

# DRAGON-LINE LLC

SEPTEMBER 29, 2025

WISH-119627

CUSTOMER : WALTHER FARMS

LINDSAY GEN II - 30  
6 TOWER - 1077.47 FT  
SYSTEM 700 GPM @ 17 PSI

P.O. NO. : 25039

RIVULIS DRAGON-LINE®  
NO REGULATORS  
NO ENDGUN  
ELEVATION 5 FT UP, 5 FT DOWN

100 SOUTH MAIN  
ULYSSES, KANSAS 67880  
(620)424-3724

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#### WARRANTY

WATER APPLICATION UNIFORMITY OBTAINED WITH THIS SYSTEM CAN BE ADVERSELY AFFECTED BY MANY VARIABLES INCLUDING THE IMPROPER MAKEUP OR INSTALLATION OF THE SPRINKLER OR SPRAY NOZZLE PACKAGE, OBSTRUCTED NOZZLES, MAINTAINING INCORRECT PIVOT PRESSURE, UNFAVORABLE CLIMATIC CONDITIONS, TIGHT AND/OR SLOPING SOILS, IMPROPER END GUN ARC SETTINGS, ERRATIC AND IMPROPER OPERATING SPEED OF THE SYSTEM, POOR QUALITY OF WATER WITH ABRASIVES, CORROSIVES, AND/OR SOLIDS WHICH CAN CAUSE PLUGGING AND JAMMING, AS WELL AS INHERENT VARIABLES IN THE MANY COMPONENTS COMPRISING THE SYSTEM. THEREFORE WESTERN IRRIGATION SUPPLY HOUSE, INC., MAKES NO WARRANTY AS TO THE UNIFORMITY OF COVERAGE OBTAINED FROM THIS WATER APPLICATION PRINTOUT OTHER THAN ITS MATHEMATICAL ACCURACY.

IT IS THE RESPONSIBILITY OF THE END USER TO DETERMINE IF ANY INCOMPATIBILITY EXISTS BETWEEN THE WATER DISTRIBUTION DEVICES AND THE CROP, THE SOIL, AND THE PHYSICAL STRUCTURE OF THE MECHANICAL MOVE SYSTEM. WESTERN IRRIGATION SUPPLY HOUSE, INC., THEREFORE, DISCLAIMS ANY LIABILITY FOR DAMAGES DUE TO FAILURE OF THE SYSTEM TO PERFORM AS CONTEMPLATED.

FIGURES PRESENTED ON THIS COMPUTER PRINTOUT ARE BASED ON THE FOLLOWING:

1. DATA FURNISHED TO WESTERN IRRIGATION SUPPLY HOUSE, INC., ON PIPE LENGTH, DIAMETER, SURFACE FINISH, OUTLET SPACINGS, WATER FLOW, PIVOT PRESSURE AND ALL OTHER APPLICABLE INFORMATION.
2. THERE IS 100% WATER APPLICATION EFFICIENCY (ZERO WIND VELOCITY AND NO EVAPORATION).
3. PIVOT PRESSURE IS MEASURED ON THE MAIN HORIZONTAL DISTRIBUTION PIPE JUST AFTER THE LAST ELBOW.
4. MAIN PIPE PRESSURE IS CALCULATED AS IF THE PIVOT IS ALWAYS ON LEVEL GROUND.
5. SPRINKLER OR SPRAY NOZZLE BASE PRESSURE MAY BE LESS THAN MAIN LINE PIPE PRESSURE DUE TO THE USE OF PRESSURE REGULATORS. WHERE DROP PIPES ARE USED THE STATIC HEAD IS ADDED TO AND FRICTION LOSS IS SUBTRACTED FROM THE MAIN LINE PIPE PRESSURE TO DETERMINE INLET PSI. REGULATORS ARE CONSIDERED MOUNTED AT THE SAME HEIGHT AS THE SPRINKLING DEVICE UNLESS NOTED.

<u>DEALER</u>			<u>IRRIGATOR</u>			
DRAGON-LINE LLC			WALTHER FARMS			
100 SOUTH MAIN						
ULYSSES, KANSAS 67880			25039			
TOTAL TARGET GPM	700.00	FRICTION FACTOR USED	138	SPANS	LENGTH	PIPE I.D.
TOP OF PIVOT PRESSURE	17.00	TOTAL LENGTH	1077.47	1	181.60	6.395
NO ENDGUN		NUMBER OF TOWERS	6	3	179.00	6.395
NUMBER OF OUTLETS	842	NUMBER OF SPRINKLERS	842	2	157.00	6.395
				OH	44.87	5.369
RIVULIS DRAGON-LINE® - 2 GPH PC EMITTER SPACED EVERY 6 INCHES						
NO REGULATORS						
DRAGON-LINE® MOUNTED ON HYBRID MANIFOLD						
ELEVATION IS 5 FT UP AND 5 FT DOWN						

DRAGON-LINE® CAUTIONS AND WARNINGS

1. The emitters in Dragon-Line® require 80 mesh filtration. Water testing should be done to determine particulate size and concentration. Proper utilization of sand separators and filters should be employed to eliminate potential plugging.
2. Dragon-Line® is susceptible to plugging by contaminants in the water, soil, and air, as is all drip tape and tubing. In order to minimize the possible negative impacts of contaminants, water and possibly soil testing should be done to determine the existence and concentration of contaminants. Appropriate chemicals can then be delivered in a safe and calculated concentration to eliminate potential plugging.
3. Prior to installation the pivot should be checked for structural integrity and strength to enable proper operation with the increased drag created by pulling Dragon-Line® and blank tubing behind the pivot.
4. Adequate moisture to facilitate germination may be a consideration on years when soil moisture levels are low and/or naturally occurring rainfall is not timely. User may want to consider a dual system or the use of spray devices that can be adapted for Dragon-Line® in the field.
5. It is recommended that crop planting be circular so Dragon-Line® can be pulled through the field with minimal crop interference and precise positioning.
6. Conditions may occur which would impact the precise positioning of Dragon-Line®. Those conditions may include high winds in fields with minimal or no crop coverage, particularly when the system is off and the hoses and tubing are dry. Repositioning of the tubes may be necessary.
7. Dragon-Line® may be susceptible to damage by rodents and other animals which may be seeking water or satisfying their natural desire to chew.
8. Checking pivot pressure in conjunction with pivot flow is essential to ensure Dragon-Line® is operating as designed. An increase in pressure coupled with a decrease in flow may indicate possible plugging whereas a decrease in pressure coupled with an increase in flow may indicate damage to the hoses or tubing.
9. Dragon-Line® is limited to a maximum length of 100 feet due to the potential for excessive drag on the pivot and increased required inlet pressure due to friction loss through the Dragon-Line® tube.
10. Maximum spacing for Dragon-Line® should not exceed two times the row spacing of the crop.

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE			SPRK NO.	REG SIZE	PLUG NO.
1	14.03	14.03	0.02	0.07	16.77	22.39	RIVULIS	DRAGON-LINE	1 FT	1		
2	1.25	15.28	0.02	0.07	16.72	22.35	RIVULIS	DRAGON-LINE	1 FT	2		
3	1.25	16.53	0.03	0.07	16.68	22.31	RIVULIS	DRAGON-LINE	1 FT	3		
4	1.25	17.78	0.03	0.07	16.64	22.27	RIVULIS	DRAGON-LINE	1 FT	4		
5	1.25	19.03	0.03	0.07	16.60	22.23	RIVULIS	DRAGON-LINE	1 FT	5		
6	1.25	20.28	0.03	0.07	16.56	22.40	RIVULIS	DRAGON-LINE	1 FT	6		
7	1.25	21.53	0.03	0.07	16.52	22.36	RIVULIS	DRAGON-LINE	1 FT	7		
8	1.25	22.78	0.03	0.07	16.48	22.32	RIVULIS	DRAGON-LINE	1 FT	8		
9	1.25	24.03	0.04	0.07	16.44	22.28	RIVULIS	DRAGON-LINE	1 FT	9		
10	1.25	25.28	0.04	0.07	16.40	22.25	RIVULIS	DRAGON-LINE	1 FT	10		
11	1.25	26.53	0.04	0.07	16.36	22.21	RIVULIS	DRAGON-LINE	1 FT	11		
12	1.25	27.78	0.04	0.07	16.33	22.17	RIVULIS	DRAGON-LINE	1 FT	12		
13	1.25	29.03	0.04	0.07	16.29	22.13	RIVULIS	DRAGON-LINE	1 FT	13		
14	1.25	30.28	0.05	0.07	16.25	22.10	RIVULIS	DRAGON-LINE	1 FT	14		
15	1.25	31.53	0.05	0.07	16.22	22.28	RIVULIS	DRAGON-LINE	1 FT	15		
16	1.25	32.78	0.05	0.07	16.18	22.24	RIVULIS	DRAGON-LINE	1 FT	16		
17	1.25	34.03	0.05	0.07	16.14	22.20	RIVULIS	DRAGON-LINE	1 FT	17		
18	1.25	35.28	0.05	0.07	16.11	22.17	RIVULIS	DRAGON-LINE	1 FT	18		
19	1.25	36.53	0.06	0.07	16.08	22.14	RIVULIS	DRAGON-LINE	1 FT	19		
20	1.25	37.78	0.06	0.07	16.04	22.10	RIVULIS	DRAGON-LINE	1 FT	20		
21	1.25	39.03	0.06	0.07	16.01	22.07	RIVULIS	DRAGON-LINE	1 FT	21		
22	1.25	40.28	0.06	0.07	15.98	22.03	RIVULIS	DRAGON-LINE	1 FT	22		
23	1.25	41.53	0.06	0.07	15.94	22.00	RIVULIS	DRAGON-LINE	1 FT	23		
24	1.25	42.78	0.07	0.07	15.91	21.97	RIVULIS	DRAGON-LINE	1 FT	24		
25	1.25	44.03	0.07	0.07	15.88	21.94	RIVULIS	DRAGON-LINE	1 FT	25		
26	1.25	45.28	0.07	0.07	15.85	22.12	RIVULIS	DRAGON-LINE	1 FT	26		
27	1.25	46.53	0.07	0.07	15.82	22.09	RIVULIS	DRAGON-LINE	1 FT	27		
28	1.25	47.78	0.07	0.07	15.79	22.06	RIVULIS	DRAGON-LINE	1 FT	28		
29	1.25	49.03	0.07	0.07	15.76	22.03	RIVULIS	DRAGON-LINE	1 FT	29		
30	1.25	50.28	0.08	0.07	15.73	22.00	RIVULIS	DRAGON-LINE	1 FT	30		
31	1.25	51.53	0.08	0.07	15.70	21.98	RIVULIS	DRAGON-LINE	1 FT	31		
32	1.25	52.78	0.08	0.07	15.67	21.95	RIVULIS	DRAGON-LINE	1 FT	32		
33	1.25	54.03	0.08	0.07	15.64	21.92	RIVULIS	DRAGON-LINE	1 FT	33		
34	1.25	55.28	0.08	0.07	15.62	21.89	RIVULIS	DRAGON-LINE	1 FT	34		
35	1.25	56.53	0.09	0.07	15.59	21.86	RIVULIS	DRAGON-LINE	1 FT	35		
36	1.25	57.78	0.09	0.07	15.56	21.84	RIVULIS	DRAGON-LINE	1 FT	36		
37	1.25	59.03	0.09	0.07	15.54	21.81	RIVULIS	DRAGON-LINE	1 FT	37		
38	1.25	60.28	0.09	0.07	15.51	21.79	RIVULIS	DRAGON-LINE	1 FT	38		
39	1.25	61.53	0.09	0.07	15.49	21.76	RIVULIS	DRAGON-LINE	1 FT	39		
40	1.25	62.78	0.10	0.07	15.46	21.74	RIVULIS	DRAGON-LINE	1 FT	40		
41	1.25	64.03	0.10	0.07	15.44	21.71	RIVULIS	DRAGON-LINE	1 FT	41		
42	1.25	65.28	0.10	0.07	15.41	21.91	RIVULIS	DRAGON-LINE	1 FT	42		
43	1.25	66.53	0.10	0.13	15.39	21.88	RIVULIS	DRAGON-LINE	2 FT	43		
44	1.25	67.78	0.10	0.13	15.37	21.86	RIVULIS	DRAGON-LINE	2 FT	44		
45	1.25	69.03	0.11	0.13	15.35	21.84	RIVULIS	DRAGON-LINE	2 FT	45		
46	1.25	70.28	0.11	0.13	15.33	21.82	RIVULIS	DRAGON-LINE	2 FT	46		
47	1.25	71.53	0.11	0.13	15.30	21.79	RIVULIS	DRAGON-LINE	2 FT	47		
48	1.25	72.78	0.11	0.13	15.28	21.77	RIVULIS	DRAGON-LINE	2 FT	48		

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE			SPRK NO.	REG SIZE	PLUG NO.
49	1.25	74.03	0.11	0.13	15.26	21.75	RIVULIS	DRAGON-LINE	2 FT	49		
50	1.25	75.28	0.12	0.13	15.24	21.73	RIVULIS	DRAGON-LINE	2 FT	50		
51	1.25	76.53	0.12	0.13	15.22	21.71	RIVULIS	DRAGON-LINE	2 FT	51		
52	1.25	77.78	0.12	0.13	15.21	21.70	RIVULIS	DRAGON-LINE	2 FT	52		
53	1.25	79.03	0.12	0.13	15.19	21.68	RIVULIS	DRAGON-LINE	2 FT	53		
54	1.25	80.28	0.12	0.13	15.17	21.66	RIVULIS	DRAGON-LINE	2 FT	54		
55	1.25	81.53	0.12	0.13	15.15	21.64	RIVULIS	DRAGON-LINE	2 FT	55		
56	1.25	82.78	0.13	0.13	15.14	21.62	RIVULIS	DRAGON-LINE	2 FT	56		
57	1.25	84.03	0.13	0.13	15.12	21.61	RIVULIS	DRAGON-LINE	2 FT	57		
58	1.25	85.28	0.13	0.13	15.10	21.59	RIVULIS	DRAGON-LINE	2 FT	58		
59	1.25	86.53	0.13	0.13	15.09	21.58	RIVULIS	DRAGON-LINE	2 FT	59		
60	1.25	87.78	0.13	0.13	15.07	21.56	RIVULIS	DRAGON-LINE	2 FT	60		
61	1.25	89.03	0.14	0.13	15.06	21.55	RIVULIS	DRAGON-LINE	2 FT	61		
62	1.25	90.28	0.14	0.13	15.04	21.53	RIVULIS	DRAGON-LINE	2 FT	62		
63	1.25	91.53	0.14	0.13	15.03	21.52	RIVULIS	DRAGON-LINE	2 FT	63		
64	1.25	92.78	0.14	0.13	15.02	21.51	RIVULIS	DRAGON-LINE	2 FT	64		
65	1.25	94.03	0.14	0.13	15.00	21.49	RIVULIS	DRAGON-LINE	2 FT	65		
66	1.25	95.28	0.15	0.13	14.99	21.48	RIVULIS	DRAGON-LINE	2 FT	66		
67	1.25	96.53	0.15	0.13	14.98	21.47	RIVULIS	DRAGON-LINE	2 FT	67		
68	1.25	97.78	0.15	0.13	14.97	21.46	RIVULIS	DRAGON-LINE	2 FT	68		
69	1.25	99.03	0.15	0.13	14.96	21.45	RIVULIS	DRAGON-LINE	2 FT	69		
70	1.25	100.28	0.15	0.13	14.95	21.44	RIVULIS	DRAGON-LINE	2 FT	70		
71	1.25	101.53	0.16	0.13	14.94	21.43	RIVULIS	DRAGON-LINE	2 FT	71		
72	1.25	102.78	0.16	0.13	14.93	21.42	RIVULIS	DRAGON-LINE	2 FT	72		
73	1.25	104.03	0.16	0.13	14.92	21.41	RIVULIS	DRAGON-LINE	2 FT	73		
74	1.25	105.28	0.16	0.13	14.91	21.40	RIVULIS	DRAGON-LINE	2 FT	74		
75	1.25	106.53	0.16	0.13	14.90	21.39	RIVULIS	DRAGON-LINE	2 FT	75		
76	1.25	107.78	0.16	0.13	14.90	21.38	RIVULIS	DRAGON-LINE	2 FT	76		
77	1.25	109.03	0.17	0.13	14.89	21.38	RIVULIS	DRAGON-LINE	2 FT	77		
78	1.25	110.28	0.17	0.20	14.88	21.37	RIVULIS	DRAGON-LINE	3 FT	78		
79	1.25	111.53	0.17	0.20	14.88	21.36	RIVULIS	DRAGON-LINE	3 FT	79		
80	1.25	112.78	0.17	0.20	14.87	21.36	RIVULIS	DRAGON-LINE	3 FT	80		
81	1.25	114.03	0.17	0.20	14.87	21.35	RIVULIS	DRAGON-LINE	3 FT	81		
82	1.25	115.28	0.18	0.20	14.86	21.35	RIVULIS	DRAGON-LINE	3 FT	82		
83	1.25	116.53	0.18	0.20	14.86	21.34	RIVULIS	DRAGON-LINE	3 FT	83		
84	1.25	117.78	0.18	0.20	14.85	21.34	RIVULIS	DRAGON-LINE	3 FT	84		
85	1.25	119.03	0.18	0.20	14.85	21.12	RIVULIS	DRAGON-LINE	3 FT	85		
86	1.25	120.28	0.18	0.20	14.85	21.12	RIVULIS	DRAGON-LINE	3 FT	86		
87	1.25	121.53	0.19	0.20	14.85	21.12	RIVULIS	DRAGON-LINE	3 FT	87		
88	1.25	122.78	0.19	0.20	14.84	21.11	RIVULIS	DRAGON-LINE	3 FT	88		
89	1.25	124.03	0.19	0.20	14.84	21.11	RIVULIS	DRAGON-LINE	3 FT	89		
90	1.25	125.28	0.19	0.20	14.84	21.11	RIVULIS	DRAGON-LINE	3 FT	90		
91	1.25	126.53	0.19	0.20	14.84	21.11	RIVULIS	DRAGON-LINE	3 FT	91		
92	1.25	127.78	0.20	0.20	14.84	21.11	RIVULIS	DRAGON-LINE	3 FT	92		
93	1.25	129.03	0.20	0.20	14.84	21.11	RIVULIS	DRAGON-LINE	3 FT	93		
94	1.25	130.28	0.20	0.20	14.84	21.11	RIVULIS	DRAGON-LINE	3 FT	94		
95	1.25	131.53	0.20	0.20	14.85	21.11	RIVULIS	DRAGON-LINE	3 FT	95		
96	1.25	132.78	0.20	0.20	14.85	21.12	RIVULIS	DRAGON-LINE	3 FT	96		

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE			SPRK NO.	REG SIZE	PLUG NO.
97	1.25	134.03	0.20	0.20	14.85	21.12	RIVULIS	DRAGON-LINE	3 FT	97		
98	1.25	135.28	0.21	0.20	14.85	21.12	RIVULIS	DRAGON-LINE	3 FT	98		
99	1.25	136.53	0.21	0.20	14.86	21.12	RIVULIS	DRAGON-LINE	3 FT	99		
100	1.25	137.78	0.21	0.20	14.86	20.91	RIVULIS	DRAGON-LINE	3 FT	100		
101	1.25	139.03	0.21	0.20	14.87	20.92	RIVULIS	DRAGON-LINE	3 FT	101		
102	1.25	140.28	0.21	0.20	14.87	20.92	RIVULIS	DRAGON-LINE	3 FT	102		
103	1.25	141.53	0.22	0.20	14.88	20.93	RIVULIS	DRAGON-LINE	3 FT	103		
104	1.25	142.78	0.22	0.20	14.88	20.93	RIVULIS	DRAGON-LINE	3 FT	104		
105	1.25	144.03	0.22	0.20	14.89	20.94	RIVULIS	DRAGON-LINE	3 FT	105		
106	1.25	145.28	0.22	0.20	14.90	20.95	RIVULIS	DRAGON-LINE	3 FT	106		
107	1.25	146.53	0.22	0.20	14.90	20.95	RIVULIS	DRAGON-LINE	3 FT	107		
108	1.25	147.78	0.23	0.20	14.91	20.96	RIVULIS	DRAGON-LINE	3 FT	108		
109	1.25	149.03	0.23	0.20	14.92	20.97	RIVULIS	DRAGON-LINE	3 FT	109		
110	1.25	150.28	0.23	0.20	14.93	20.98	RIVULIS	DRAGON-LINE	3 FT	110		
111	1.25	151.53	0.23	0.20	14.94	20.77	RIVULIS	DRAGON-LINE	3 FT	111		
112	1.25	152.78	0.23	0.27	14.95	20.78	RIVULIS	DRAGON-LINE	4 FT	112		
113	1.25	154.03	0.24	0.27	14.96	20.79	RIVULIS	DRAGON-LINE	4 FT	113		
114	1.25	155.28	0.24	0.27	14.97	20.80	RIVULIS	DRAGON-LINE	4 FT	114		
115	1.25	156.53	0.24	0.27	14.98	20.81	RIVULIS	DRAGON-LINE	4 FT	115		
116	1.25	157.78	0.24	0.27	14.99	20.82	RIVULIS	DRAGON-LINE	4 FT	116		
117	1.25	159.03	0.24	0.27	15.00	20.83	RIVULIS	DRAGON-LINE	4 FT	117		
118	1.25	160.28	0.25	0.27	15.01	20.85	RIVULIS	DRAGON-LINE	4 FT	118		
119	1.25	161.53	0.25	0.27	15.03	20.86	RIVULIS	DRAGON-LINE	4 FT	119		
120	1.25	162.78	0.25	0.27	15.04	20.66	RIVULIS	DRAGON-LINE	4 FT	120		
121	1.25	164.03	0.25	0.27	15.06	20.67	RIVULIS	DRAGON-LINE	4 FT	121		
122	1.25	165.28	0.25	0.27	15.07	20.68	RIVULIS	DRAGON-LINE	4 FT	122		
123	1.25	166.53	0.25	0.27	15.08	20.70	RIVULIS	DRAGON-LINE	4 FT	123		
124	1.25	167.78	0.26	0.27	15.10	20.71	RIVULIS	DRAGON-LINE	4 FT	124		
125	1.25	169.03	0.26	0.27	15.12	20.73	RIVULIS	DRAGON-LINE	4 FT	125		
126	1.25	170.28	0.26	0.27	15.13	20.75	RIVULIS	DRAGON-LINE	4 FT	126		
127	1.25	171.53	0.26	0.27	15.15	20.76	RIVULIS	DRAGON-LINE	4 FT	127		
128	1.25	172.78	0.26	0.27	15.14	20.54	RIVULIS	DRAGON-LINE	4 FT	128		
129	1.25	174.03	0.27	0.27	15.13	20.53	RIVULIS	DRAGON-LINE	4 FT	129		
130	1.25	175.28	0.27	0.27	15.12	20.51	RIVULIS	DRAGON-LINE	4 FT	130		
131	1.25	176.53	0.27	0.27	15.10	20.50	RIVULIS	DRAGON-LINE	4 FT	131		
132	1.25	177.78	0.27	0.27	15.09	20.49	RIVULIS	DRAGON-LINE	4 FT	132		
133	1.25	179.03	0.28	0.27	15.08	20.47	RIVULIS	DRAGON-LINE	4 FT	133		
TOWER 1	181.60	181.60										
134	2.75	181.78	0.28	0.27	15.05	20.44	RIVULIS	DRAGON-LINE	4 FT	134		
135	1.25	183.03	0.28	0.27	15.04	20.43	RIVULIS	DRAGON-LINE	4 FT	135		
136	1.25	184.28	0.28	0.27	15.02	20.42	RIVULIS	DRAGON-LINE	4 FT	136		
137	1.25	185.53	0.28	0.27	15.01	20.40	RIVULIS	DRAGON-LINE	4 FT	137		
138	1.25	186.78	0.29	0.27	15.00	20.39	RIVULIS	DRAGON-LINE	4 FT	138		
139	1.25	188.03	0.29	0.27	14.98	20.38	RIVULIS	DRAGON-LINE	4 FT	139		
140	1.25	189.28	0.29	0.27	14.97	20.37	RIVULIS	DRAGON-LINE	4 FT	140		
141	1.25	190.53	0.29	0.27	14.94	20.55	RIVULIS	DRAGON-LINE	4 FT	141		
142	1.25	191.78	0.29	0.27	14.90	20.51	RIVULIS	DRAGON-LINE	4 FT	142		
143	1.25	193.03	0.30	0.27	14.86	20.47	RIVULIS	DRAGON-LINE	4 FT	143		

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE			SPRK NO.	REG SIZE	PLUG NO.
144	1.25	194.28	0.30	0.27	14.81	20.43	RIVULIS	DRAGON-LINE	4 FT	144		
145	1.25	195.53	0.30	0.27	14.77	20.38	RIVULIS	DRAGON-LINE	4 FT	145		
146	1.25	196.78	0.30	0.33	14.73	20.34	RIVULIS	DRAGON-LINE	5 FT	146		
147	1.25	198.03	0.30	0.33	14.69	20.30	RIVULIS	DRAGON-LINE	5 FT	147		
148	1.25	199.28	0.30	0.33	14.65	20.26	RIVULIS	DRAGON-LINE	5 FT	148		
149	1.25	200.53	0.31	0.33	14.61	20.44	RIVULIS	DRAGON-LINE	5 FT	149		
150	1.25	201.78	0.31	0.33	14.57	20.40	RIVULIS	DRAGON-LINE	5 FT	150		
151	1.25	203.03	0.31	0.33	14.54	20.36	RIVULIS	DRAGON-LINE	5 FT	151		
152	1.25	204.28	0.31	0.33	14.50	20.32	RIVULIS	DRAGON-LINE	5 FT	152		
153	1.25	205.53	0.31	0.33	14.46	20.29	RIVULIS	DRAGON-LINE	5 FT	153		
154	1.25	206.78	0.32	0.33	14.42	20.25	RIVULIS	DRAGON-LINE	5 FT	154		
155	1.25	208.03	0.32	0.33	14.39	20.21	RIVULIS	DRAGON-LINE	5 FT	155		
156	1.25	209.28	0.32	0.33	14.35	20.18	RIVULIS	DRAGON-LINE	5 FT	156		
157	1.25	210.53	0.32	0.33	14.32	20.36	RIVULIS	DRAGON-LINE	5 FT	157		
158	1.25	211.78	0.32	0.33	14.28	20.32	RIVULIS	DRAGON-LINE	5 FT	158		
159	1.25	213.03	0.33	0.33	14.25	20.29	RIVULIS	DRAGON-LINE	5 FT	159		
160	1.25	214.28	0.33	0.33	14.21	20.25	RIVULIS	DRAGON-LINE	5 FT	160		
161	1.25	215.53	0.33	0.33	14.18	20.22	RIVULIS	DRAGON-LINE	5 FT	161		
162	1.25	216.78	0.33	0.33	14.15	20.19	RIVULIS	DRAGON-LINE	5 FT	162		
163	1.25	218.03	0.33	0.33	14.11	20.15	RIVULIS	DRAGON-LINE	5 FT	163		
164	1.25	219.28	0.34	0.33	14.08	20.12	RIVULIS	DRAGON-LINE	5 FT	164		
165	1.25	220.53	0.34	0.33	14.05	20.09	RIVULIS	DRAGON-LINE	5 FT	165		
166	1.25	221.78	0.34	0.33	14.02	20.06	RIVULIS	DRAGON-LINE	5 FT	166		
167	1.25	223.03	0.34	0.33	13.99	20.03	RIVULIS	DRAGON-LINE	5 FT	167		
168	1.25	224.28	0.34	0.33	13.96	20.21	RIVULIS	DRAGON-LINE	5 FT	168		
169	1.25	225.53	0.34	0.33	13.93	20.18	RIVULIS	DRAGON-LINE	5 FT	169		
170	1.25	226.78	0.35	0.33	13.90	20.15	RIVULIS	DRAGON-LINE	5 FT	170		
171	1.25	228.03	0.35	0.33	13.87	20.12	RIVULIS	DRAGON-LINE	5 FT	171		
172	1.25	229.28	0.35	0.33	13.84	20.10	RIVULIS	DRAGON-LINE	5 FT	172		
173	1.25	230.53	0.35	0.33	13.82	20.07	RIVULIS	DRAGON-LINE	5 FT	173		
174	1.25	231.78	0.35	0.33	13.79	20.04	RIVULIS	DRAGON-LINE	5 FT	174		
175	1.25	233.03	0.36	0.33	13.76	20.01	RIVULIS	DRAGON-LINE	5 FT	175		
176	1.25	234.28	0.36	0.33	13.74	19.99	RIVULIS	DRAGON-LINE	5 FT	176		
177	1.25	235.53	0.36	0.33	13.71	19.96	RIVULIS	DRAGON-LINE	5 FT	177		
178	1.25	236.78	0.36	0.33	13.68	19.94	RIVULIS	DRAGON-LINE	5 FT	178		
179	1.25	238.03	0.36	0.33	13.66	19.91	RIVULIS	DRAGON-LINE	5 FT	179		
180	1.25	239.28	0.37	0.33	13.63	19.89	RIVULIS	DRAGON-LINE	5 FT	180		
181	1.25	240.53	0.37	0.40	13.61	19.86	RIVULIS	DRAGON-LINE	6 FT	181		
182	1.25	241.78	0.37	0.40	13.59	19.84	RIVULIS	DRAGON-LINE	6 FT	182		
183	1.25	243.03	0.37	0.40	13.56	19.81	RIVULIS	DRAGON-LINE	6 FT	183		
184	1.25	244.28	0.37	0.40	13.54	20.01	RIVULIS	DRAGON-LINE	6 FT	184		
185	1.25	245.53	0.38	0.40	13.52	19.99	RIVULIS	DRAGON-LINE	6 FT	185		
186	1.25	246.78	0.38	0.40	13.50	19.96	RIVULIS	DRAGON-LINE	6 FT	186		
187	1.25	248.03	0.38	0.40	13.48	19.94	RIVULIS	DRAGON-LINE	6 FT	187		
188	1.25	249.28	0.38	0.40	13.46	19.92	RIVULIS	DRAGON-LINE	6 FT	188		
189	1.25	250.53	0.38	0.40	13.44	19.90	RIVULIS	DRAGON-LINE	6 FT	189		
190	1.25	251.78	0.38	0.40	13.42	19.88	RIVULIS	DRAGON-LINE	6 FT	190		
191	1.25	253.03	0.39	0.40	13.40	19.86	RIVULIS	DRAGON-LINE	6 FT	191		

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE			SPRK NO.	REG SIZE	PLUG NO.
192	1.25	254.28	0.39	0.40	13.38	19.84	RIVULIS	DRAGON-LINE	6 FT	192		
193	1.25	255.53	0.39	0.40	13.36	19.83	RIVULIS	DRAGON-LINE	6 FT	193		
194	1.25	256.78	0.39	0.40	13.34	19.81	RIVULIS	DRAGON-LINE	6 FT	194		
195	1.25	258.03	0.39	0.40	13.33	19.79	RIVULIS	DRAGON-LINE	6 FT	195		
196	1.25	259.28	0.40	0.40	13.31	19.77	RIVULIS	DRAGON-LINE	6 FT	196		
197	1.25	260.53	0.40	0.40	13.29	19.76	RIVULIS	DRAGON-LINE	6 FT	197		
198	1.25	261.78	0.40	0.40	13.28	19.74	RIVULIS	DRAGON-LINE	6 FT	198		
199	1.25	263.03	0.40	0.40	13.26	19.73	RIVULIS	DRAGON-LINE	6 FT	199		
200	1.25	264.28	0.40	0.40	13.25	19.71	RIVULIS	DRAGON-LINE	6 FT	200		
201	1.25	265.53	0.41	0.40	13.24	19.70	RIVULIS	DRAGON-LINE	6 FT	201		
202	1.25	266.78	0.41	0.40	13.22	19.68	RIVULIS	DRAGON-LINE	6 FT	202		
203	1.25	268.03	0.41	0.40	13.21	19.67	RIVULIS	DRAGON-LINE	6 FT	203		
204	1.25	269.28	0.41	0.40	13.20	19.66	RIVULIS	DRAGON-LINE	6 FT	204		
205	1.25	270.53	0.41	0.40	13.18	19.64	RIVULIS	DRAGON-LINE	6 FT	205		
206	1.25	271.78	0.42	0.40	13.17	19.63	RIVULIS	DRAGON-LINE	6 FT	206		
207	1.25	273.03	0.42	0.40	13.16	19.62	RIVULIS	DRAGON-LINE	6 FT	207		
208	1.25	274.28	0.42	0.40	13.15	19.61	RIVULIS	DRAGON-LINE	6 FT	208		
209	1.25	275.53	0.42	0.40	13.14	19.60	RIVULIS	DRAGON-LINE	6 FT	209		
210	1.25	276.78	0.42	0.40	13.13	19.59	RIVULIS	DRAGON-LINE	6 FT	210		
211	1.25	278.03	0.43	0.40	13.12	19.58	RIVULIS	DRAGON-LINE	6 FT	211		
212	1.25	279.28	0.43	0.40	13.11	19.57	RIVULIS	DRAGON-LINE	6 FT	212		
213	1.25	280.53	0.43	0.40	13.10	19.56	RIVULIS	DRAGON-LINE	6 FT	213		
214	1.25	281.78	0.43	0.40	13.09	19.55	RIVULIS	DRAGON-LINE	6 FT	214		
215	1.25	283.03	0.43	0.40	13.09	19.55	RIVULIS	DRAGON-LINE	6 FT	215		
216	1.25	284.28	0.43	0.47	13.08	19.54	RIVULIS	DRAGON-LINE	7 FT	216		
217	1.25	285.53	0.44	0.47	13.07	19.53	RIVULIS	DRAGON-LINE	7 FT	217		
218	1.25	286.78	0.44	0.47	13.07	19.52	RIVULIS	DRAGON-LINE	7 FT	218		
219	1.25	288.03	0.44	0.47	13.06	19.52	RIVULIS	DRAGON-LINE	7 FT	219		
220	1.25	289.28	0.44	0.47	13.06	19.51	RIVULIS	DRAGON-LINE	7 FT	220		
221	1.25	290.53	0.44	0.47	13.05	19.51	RIVULIS	DRAGON-LINE	7 FT	221		
222	1.25	291.78	0.45	0.47	13.05	19.50	RIVULIS	DRAGON-LINE	7 FT	222		
223	1.25	293.03	0.45	0.47	13.05	19.50	RIVULIS	DRAGON-LINE	7 FT	223		
224	1.25	294.28	0.45	0.47	13.04	19.50	RIVULIS	DRAGON-LINE	7 FT	224		
225	1.25	295.53	0.45	0.47	13.04	19.49	RIVULIS	DRAGON-LINE	7 FT	225		
226	1.25	296.78	0.45	0.47	13.04	19.49	RIVULIS	DRAGON-LINE	7 FT	226		
227	1.25	298.03	0.46	0.47	13.04	19.27	RIVULIS	DRAGON-LINE	7 FT	227		
228	1.25	299.28	0.46	0.47	13.04	19.27	RIVULIS	DRAGON-LINE	7 FT	228		
229	1.25	300.53	0.46	0.47	13.03	19.27	RIVULIS	DRAGON-LINE	7 FT	229		
230	1.25	301.78	0.46	0.47	13.03	19.27	RIVULIS	DRAGON-LINE	7 FT	230		
231	1.25	303.03	0.46	0.47	13.03	19.27	RIVULIS	DRAGON-LINE	7 FT	231		
232	1.25	304.28	0.47	0.47	13.04	19.27	RIVULIS	DRAGON-LINE	7 FT	232		
233	1.25	305.53	0.47	0.47	13.04	19.27	RIVULIS	DRAGON-LINE	7 FT	233		
234	1.25	306.78	0.47	0.47	13.04	19.27	RIVULIS	DRAGON-LINE	7 FT	234		
235	1.25	308.03	0.47	0.47	13.04	19.28	RIVULIS	DRAGON-LINE	7 FT	235		
236	1.25	309.28	0.47	0.47	13.04	19.28	RIVULIS	DRAGON-LINE	7 FT	236		
237	1.25	310.53	0.47	0.47	13.05	19.28	RIVULIS	DRAGON-LINE	7 FT	237		
238	1.25	311.78	0.48	0.47	13.05	19.29	RIVULIS	DRAGON-LINE	7 FT	238		
239	1.25	313.03	0.48	0.47	13.06	19.29	RIVULIS	DRAGON-LINE	7 FT	239		



OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE			SPRK NO.	REG SIZE	PLUG NO.
240	1.25	314.28	0.48	0.47	13.06	19.29	RIVULIS	DRAGON-LINE	7 FT	240		
241	1.25	315.53	0.48	0.47	13.06	19.30	RIVULIS	DRAGON-LINE	7 FT	241		
242	1.25	316.78	0.48	0.47	13.07	19.09	RIVULIS	DRAGON-LINE	7 FT	242		
243	1.25	318.03	0.49	0.47	13.08	19.09	RIVULIS	DRAGON-LINE	7 FT	243		
244	1.25	319.28	0.49	0.47	13.08	19.10	RIVULIS	DRAGON-LINE	7 FT	244		
245	1.25	320.53	0.49	0.47	13.09	19.11	RIVULIS	DRAGON-LINE	7 FT	245		
246	1.25	321.78	0.49	0.47	13.10	19.11	RIVULIS	DRAGON-LINE	7 FT	246		
247	1.25	323.03	0.49	0.47	13.11	19.12	RIVULIS	DRAGON-LINE	7 FT	247		
248	1.25	324.28	0.50	0.47	13.12	19.13	RIVULIS	DRAGON-LINE	7 FT	248		
249	1.25	325.53	0.50	0.47	13.12	19.14	RIVULIS	DRAGON-LINE	7 FT	249		
250	1.25	326.78	0.50	0.47	13.13	19.15	RIVULIS	DRAGON-LINE	7 FT	250		
251	1.25	328.03	0.50	0.53	13.14	19.16	RIVULIS	DRAGON-LINE	8 FT	251		
252	1.25	329.28	0.50	0.53	13.15	19.17	RIVULIS	DRAGON-LINE	8 FT	252		
253	1.25	330.53	0.51	0.53	13.17	18.96	RIVULIS	DRAGON-LINE	8 FT	253		
254	1.25	331.78	0.51	0.53	13.18	18.97	RIVULIS	DRAGON-LINE	8 FT	254		
255	1.25	333.03	0.51	0.53	13.19	18.99	RIVULIS	DRAGON-LINE	8 FT	255		
256	1.25	334.28	0.51	0.53	13.20	19.00	RIVULIS	DRAGON-LINE	8 FT	256		
257	1.25	335.53	0.51	0.53	13.21	19.01	RIVULIS	DRAGON-LINE	8 FT	257		
258	1.25	336.78	0.51	0.53	13.23	19.02	RIVULIS	DRAGON-LINE	8 FT	258		
259	1.25	338.03	0.52	0.53	13.24	19.04	RIVULIS	DRAGON-LINE	8 FT	259		
260	1.25	339.28	0.52	0.53	13.26	19.05	RIVULIS	DRAGON-LINE	8 FT	260		
261	1.25	340.53	0.52	0.53	13.27	19.07	RIVULIS	DRAGON-LINE	8 FT	261		
262	1.25	341.78	0.52	0.53	13.29	18.86	RIVULIS	DRAGON-LINE	8 FT	262		
263	1.25	343.03	0.52	0.53	13.30	18.88	RIVULIS	DRAGON-LINE	8 FT	263		
264	1.25	344.28	0.53	0.53	13.32	18.90	RIVULIS	DRAGON-LINE	8 FT	264		
265	1.25	345.53	0.53	0.53	13.34	18.91	RIVULIS	DRAGON-LINE	8 FT	265		
266	1.25	346.78	0.53	0.53	13.35	18.93	RIVULIS	DRAGON-LINE	8 FT	266		
267	1.25	348.03	0.53	0.53	13.37	18.95	RIVULIS	DRAGON-LINE	8 FT	267		
268	1.25	349.28	0.53	0.53	13.39	18.97	RIVULIS	DRAGON-LINE	8 FT	268		
269	1.25	350.53	0.54	0.53	13.41	18.98	RIVULIS	DRAGON-LINE	8 FT	269		
270	1.25	351.78	0.54	0.53	13.40	18.76	RIVULIS	DRAGON-LINE	8 FT	270		
271	1.25	353.03	0.54	0.53	13.39	18.75	RIVULIS	DRAGON-LINE	8 FT	271		
272	1.25	354.28	0.54	0.53	13.38	18.74	RIVULIS	DRAGON-LINE	8 FT	272		
273	1.25	355.53	0.54	0.53	13.37	18.73	RIVULIS	DRAGON-LINE	8 FT	273		
274	1.25	356.78	0.55	0.53	13.36	18.72	RIVULIS	DRAGON-LINE	8 FT	274		
275	1.25	358.03	0.55	0.53	13.35	18.71	RIVULIS	DRAGON-LINE	8 FT	275		
TOWER 2	179.00	360.60										
276	2.75	360.78	0.55	0.53	13.32	18.68	RIVULIS	DRAGON-LINE	8 FT	276		
277	1.25	362.03	0.55	0.53	13.31	18.67	RIVULIS	DRAGON-LINE	8 FT	277		
278	1.25	363.28	0.56	0.53	13.30	18.66	RIVULIS	DRAGON-LINE	8 FT	278		
279	1.25	364.53	0.56	0.53	13.29	18.65	RIVULIS	DRAGON-LINE	8 FT	279		
280	1.25	365.78	0.56	0.53	13.28	18.64	RIVULIS	DRAGON-LINE	8 FT	280		
281	1.25	367.03	0.56	0.53	13.27	18.62	RIVULIS	DRAGON-LINE	8 FT	281		
282	1.25	368.28	0.56	0.53	13.26	18.61	RIVULIS	DRAGON-LINE	8 FT	282		
283	1.25	369.53	0.56	0.53	13.23	18.80	RIVULIS	DRAGON-LINE	8 FT	283		
284	1.25	370.78	0.57	0.53	13.19	18.76	RIVULIS	DRAGON-LINE	8 FT	284		
285	1.25	372.03	0.57	0.60	13.15	18.72	RIVULIS	DRAGON-LINE	9 FT	285		
286	1.25	373.28	0.57	0.60	13.11	18.68	RIVULIS	DRAGON-LINE	9 FT	286		

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE			SPRK NO.	REG SIZE	PLUG NO.
287	1.25	374.53	0.57	0.60	13.07	18.64	RIVULIS	DRAGON-LINE	9 FT	287		
288	1.25	375.78	0.57	0.60	13.03	18.60	RIVULIS	DRAGON-LINE	9 FT	288		
289	1.25	377.03	0.58	0.60	13.00	18.56	RIVULIS	DRAGON-LINE	9 FT	289		
290	1.25	378.28	0.58	0.60	12.96	18.53	RIVULIS	DRAGON-LINE	9 FT	290		
291	1.25	379.53	0.58	0.60	12.92	18.70	RIVULIS	DRAGON-LINE	9 FT	291		
292	1.25	380.78	0.58	0.60	12.88	18.67	RIVULIS	DRAGON-LINE	9 FT	292		
293	1.25	382.03	0.58	0.60	12.85	18.63	RIVULIS	DRAGON-LINE	9 FT	293		
294	1.25	383.28	0.59	0.60	12.81	18.59	RIVULIS	DRAGON-LINE	9 FT	294		
295	1.25	384.53	0.59	0.60	12.78	18.56	RIVULIS	DRAGON-LINE	9 FT	295		
296	1.25	385.78	0.59	0.60	12.74	18.52	RIVULIS	DRAGON-LINE	9 FT	296		
297	1.25	387.03	0.59	0.60	12.71	18.49	RIVULIS	DRAGON-LINE	9 FT	297		
298	1.25	388.28	0.59	0.60	12.67	18.45	RIVULIS	DRAGON-LINE	9 FT	298		
299	1.25	389.53	0.60	0.60	12.64	18.64	RIVULIS	DRAGON-LINE	9 FT	299		
300	1.25	390.78	0.60	0.60	12.61	18.60	RIVULIS	DRAGON-LINE	9 FT	300		
301	1.25	392.03	0.60	0.60	12.58	18.57	RIVULIS	DRAGON-LINE	9 FT	301		
302	1.25	393.28	0.60	0.60	12.54	18.54	RIVULIS	DRAGON-LINE	9 FT	302		
303	1.25	394.53	0.60	0.60	12.51	18.51	RIVULIS	DRAGON-LINE	9 FT	303		
304	1.25	395.78	0.61	0.60	12.48	18.48	RIVULIS	DRAGON-LINE	9 FT	304		
305	1.25	397.03	0.61	0.60	12.45	18.45	RIVULIS	DRAGON-LINE	9 FT	305		
306	1.25	398.28	0.61	0.60	12.42	18.42	RIVULIS	DRAGON-LINE	9 FT	306		
307	1.25	399.53	0.61	0.60	12.39	18.39	RIVULIS	DRAGON-LINE	9 FT	307		
308	1.25	400.78	0.61	0.60	12.36	18.36	RIVULIS	DRAGON-LINE	9 FT	308		
309	1.25	402.03	0.61	0.60	12.33	18.33	RIVULIS	DRAGON-LINE	9 FT	309		
310	1.25	403.28	0.62	0.60	12.31	18.52	RIVULIS	DRAGON-LINE	9 FT	310		
311	1.25	404.53	0.62	0.60	12.28	18.49	RIVULIS	DRAGON-LINE	9 FT	311		
312	1.25	405.78	0.62	0.60	12.25	18.46	RIVULIS	DRAGON-LINE	9 FT	312		
313	1.25	407.03	0.62	0.60	12.23	18.43	RIVULIS	DRAGON-LINE	9 FT	313		
314	1.25	408.28	0.62	0.60	12.20	18.41	RIVULIS	DRAGON-LINE	9 FT	314		
315	1.25	409.53	0.63	0.60	12.17	18.38	RIVULIS	DRAGON-LINE	9 FT	315		
316	1.25	410.78	0.63	0.60	12.15	18.36	RIVULIS	DRAGON-LINE	9 FT	316		
317	1.25	412.03	0.63	0.60	12.13	18.33	RIVULIS	DRAGON-LINE	9 FT	317		
318	1.25	413.28	0.63	0.60	12.10	18.31	RIVULIS	DRAGON-LINE	9 FT	318		
319	1.25	414.53	0.63	0.67	12.08	18.28	RIVULIS	DRAGON-LINE	10 FT	319		
320	1.25	415.78	0.64	0.67	12.06	18.26	RIVULIS	DRAGON-LINE	10 FT	320		
321	1.25	417.03	0.64	0.67	12.03	18.24	RIVULIS	DRAGON-LINE	10 FT	321		
322	1.25	418.28	0.64	0.67	12.01	18.21	RIVULIS	DRAGON-LINE	10 FT	322		
323	1.25	419.53	0.64	0.67	11.99	18.19	RIVULIS	DRAGON-LINE	10 FT	323		
324	1.25	420.78	0.64	0.67	11.97	18.17	RIVULIS	DRAGON-LINE	10 FT	324		
325	1.25	422.03	0.65	0.67	11.95	18.15	RIVULIS	DRAGON-LINE	10 FT	325		
326	1.25	423.28	0.65	0.67	11.93	18.35	RIVULIS	DRAGON-LINE	10 FT	326		
327	1.25	424.53	0.65	0.67	11.91	18.33	RIVULIS	DRAGON-LINE	10 FT	327		
328	1.25	425.78	0.65	0.67	11.89	18.31	RIVULIS	DRAGON-LINE	10 FT	328		
329	1.25	427.03	0.65	0.67	11.87	18.29	RIVULIS	DRAGON-LINE	10 FT	329		
330	1.25	428.28	0.65	0.67	11.85	18.27	RIVULIS	DRAGON-LINE	10 FT	330		
331	1.25	429.53	0.66	0.67	11.83	18.25	RIVULIS	DRAGON-LINE	10 FT	331		
332	1.25	430.78	0.66	0.67	11.82	18.23	RIVULIS	DRAGON-LINE	10 FT	332		
333	1.25	432.03	0.66	0.67	11.80	18.22	RIVULIS	DRAGON-LINE	10 FT	333		
334	1.25	433.28	0.66	0.67	11.79	18.20	RIVULIS	DRAGON-LINE	10 FT	334		

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE			SPRK NO.	REG SIZE	PLUG NO.
335	1.25	434.53	0.66	0.67	11.77	18.18	RIVULIS	DRAGON-LINE	10 FT	335		
336	1.25	435.78	0.67	0.67	11.75	18.17	RIVULIS	DRAGON-LINE	10 FT	336		
337	1.25	437.03	0.67	0.67	11.74	18.15	RIVULIS	DRAGON-LINE	10 FT	337		
338	1.25	438.28	0.67	0.67	11.73	18.14	RIVULIS	DRAGON-LINE	10 FT	338		
339	1.25	439.53	0.67	0.67	11.71	18.12	RIVULIS	DRAGON-LINE	10 FT	339		
340	1.25	440.78	0.67	0.67	11.70	18.11	RIVULIS	DRAGON-LINE	10 FT	340		
341	1.25	442.03	0.68	0.67	11.69	18.10	RIVULIS	DRAGON-LINE	10 FT	341		
342	1.25	443.28	0.68	0.67	11.67	18.09	RIVULIS	DRAGON-LINE	10 FT	342		
343	1.25	444.53	0.68	0.67	11.66	18.07	RIVULIS	DRAGON-LINE	10 FT	343		
344	1.25	445.78	0.68	0.67	11.65	18.06	RIVULIS	DRAGON-LINE	10 FT	344		
345	1.25	447.03	0.68	0.67	11.64	18.05	RIVULIS	DRAGON-LINE	10 FT	345		
346	1.25	448.28	0.69	0.67	11.63	18.04	RIVULIS	DRAGON-LINE	10 FT	346		
347	1.25	449.53	0.69	0.67	11.62	18.03	RIVULIS	DRAGON-LINE	10 FT	347		
348	1.25	450.78	0.69	0.67	11.61	18.02	RIVULIS	DRAGON-LINE	10 FT	348		
349	1.25	452.03	0.69	0.67	11.60	18.01	RIVULIS	DRAGON-LINE	10 FT	349		
350	1.25	453.28	0.69	0.67	11.59	18.00	RIVULIS	DRAGON-LINE	10 FT	350		
351	1.25	454.53	0.69	0.67	11.59	17.99	RIVULIS	DRAGON-LINE	10 FT	351		
352	1.25	455.78	0.70	0.67	11.58	17.99	RIVULIS	DRAGON-LINE	10 FT	352		
353	1.25	457.03	0.70	0.67	11.57	17.98	RIVULIS	DRAGON-LINE	10 FT	353		
354	1.25	458.28	0.70	0.73	11.57	17.97	RIVULIS	DRAGON-LINE	11 FT	354		
355	1.25	459.53	0.70	0.73	11.56	17.97	RIVULIS	DRAGON-LINE	11 FT	355		
356	1.25	460.78	0.70	0.73	11.55	17.96	RIVULIS	DRAGON-LINE	11 FT	356		
357	1.25	462.03	0.71	0.73	11.55	17.95	RIVULIS	DRAGON-LINE	11 FT	357		
358	1.25	463.28	0.71	0.73	11.55	17.95	RIVULIS	DRAGON-LINE	11 FT	358		
359	1.25	464.53	0.71	0.73	11.54	17.95	RIVULIS	DRAGON-LINE	11 FT	359		
360	1.25	465.78	0.71	0.73	11.54	17.94	RIVULIS	DRAGON-LINE	11 FT	360		
361	1.25	467.03	0.71	0.73	11.54	17.94	RIVULIS	DRAGON-LINE	11 FT	361		
362	1.25	468.28	0.72	0.73	11.53	17.94	RIVULIS	DRAGON-LINE	11 FT	362		
363	1.25	469.53	0.72	0.73	11.53	17.93	RIVULIS	DRAGON-LINE	11 FT	363		
364	1.25	470.78	0.72	0.73	11.53	17.93	RIVULIS	DRAGON-LINE	11 FT	364		
365	1.25	472.03	0.72	0.73	11.53	17.93	RIVULIS	DRAGON-LINE	11 FT	365		
366	1.25	473.28	0.72	0.73	11.53	17.93	RIVULIS	DRAGON-LINE	11 FT	366		
367	1.25	474.53	0.73	0.73	11.53	17.93	RIVULIS	DRAGON-LINE	11 FT	367		
368	1.25	475.78	0.73	0.73	11.53	17.93	RIVULIS	DRAGON-LINE	11 FT	368		
369	1.25	477.03	0.73	0.73	11.53	17.71	RIVULIS	DRAGON-LINE	11 FT	369		
370	1.25	478.28	0.73	0.73	11.53	17.72	RIVULIS	DRAGON-LINE	11 FT	370		
371	1.25	479.53	0.73	0.73	11.53	17.72	RIVULIS	DRAGON-LINE	11 FT	371		
372	1.25	480.78	0.74	0.73	11.54	17.72	RIVULIS	DRAGON-LINE	11 FT	372		
373	1.25	482.03	0.74	0.73	11.54	17.72	RIVULIS	DRAGON-LINE	11 FT	373		
374	1.25	483.28	0.74	0.73	11.54	17.72	RIVULIS	DRAGON-LINE	11 FT	374		
375	1.25	484.53	0.74	0.73	11.55	17.73	RIVULIS	DRAGON-LINE	11 FT	375		
376	1.25	485.78	0.74	0.73	11.55	17.73	RIVULIS	DRAGON-LINE	11 FT	376		
377	1.25	487.03	0.74	0.73	11.56	17.74	RIVULIS	DRAGON-LINE	11 FT	377		
378	1.25	488.28	0.75	0.73	11.56	17.74	RIVULIS	DRAGON-LINE	11 FT	378		
379	1.25	489.53	0.75	0.73	11.57	17.75	RIVULIS	DRAGON-LINE	11 FT	379		
380	1.25	490.78	0.75	0.73	11.58	17.75	RIVULIS	DRAGON-LINE	11 FT	380		
381	1.25	492.03	0.75	0.73	11.58	17.76	RIVULIS	DRAGON-LINE	11 FT	381		
382	1.25	493.28	0.75	0.73	11.59	17.77	RIVULIS	DRAGON-LINE	11 FT	382		

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE			SPRK NO.	REG SIZE	PLUG NO.
383	1.25	494.53	0.76	0.73	11.60	17.77	RIVULIS	DRAGON-LINE	11 FT	383		
384	1.25	495.78	0.76	0.73	11.61	17.57	RIVULIS	DRAGON-LINE	11 FT	384		
385	1.25	497.03	0.76	0.73	11.61	17.58	RIVULIS	DRAGON-LINE	11 FT	385		
386	1.25	498.28	0.76	0.73	11.62	17.58	RIVULIS	DRAGON-LINE	11 FT	386		
387	1.25	499.53	0.76	0.73	11.63	17.59	RIVULIS	DRAGON-LINE	11 FT	387		
388	1.25	500.78	0.77	0.73	11.64	17.60	RIVULIS	DRAGON-LINE	11 FT	388		
389	1.25	502.03	0.77	0.80	11.66	17.61	RIVULIS	DRAGON-LINE	12 FT	389		
390	1.25	503.28	0.77	0.80	11.67	17.63	RIVULIS	DRAGON-LINE	12 FT	390		
391	1.25	504.53	0.77	0.80	11.68	17.64	RIVULIS	DRAGON-LINE	12 FT	391		
392	1.25	505.78	0.77	0.80	11.69	17.65	RIVULIS	DRAGON-LINE	12 FT	392		
393	1.25	507.03	0.78	0.80	11.70	17.66	RIVULIS	DRAGON-LINE	12 FT	393		
394	1.25	508.28	0.78	0.80	11.72	17.67	RIVULIS	DRAGON-LINE	12 FT	394		
395	1.25	509.53	0.78	0.80	11.73	17.47	RIVULIS	DRAGON-LINE	12 FT	395		
396	1.25	510.78	0.78	0.80	11.75	17.49	RIVULIS	DRAGON-LINE	12 FT	396		
397	1.25	512.03	0.78	0.80	11.76	17.50	RIVULIS	DRAGON-LINE	12 FT	397		
398	1.25	513.28	0.78	0.80	11.78	17.51	RIVULIS	DRAGON-LINE	12 FT	398		
399	1.25	514.53	0.79	0.80	11.79	17.53	RIVULIS	DRAGON-LINE	12 FT	399		
400	1.25	515.78	0.79	0.80	11.81	17.55	RIVULIS	DRAGON-LINE	12 FT	400		
401	1.25	517.03	0.79	0.80	11.83	17.56	RIVULIS	DRAGON-LINE	12 FT	401		
402	1.25	518.28	0.79	0.80	11.84	17.58	RIVULIS	DRAGON-LINE	12 FT	402		
403	1.25	519.53	0.79	0.80	11.86	17.60	RIVULIS	DRAGON-LINE	12 FT	403		
404	1.25	520.78	0.80	0.80	11.88	17.40	RIVULIS	DRAGON-LINE	12 FT	404		
405	1.25	522.03	0.80	0.80	11.90	17.42	RIVULIS	DRAGON-LINE	12 FT	405		
406	1.25	523.28	0.80	0.80	11.92	17.44	RIVULIS	DRAGON-LINE	12 FT	406		
407	1.25	524.53	0.80	0.80	11.94	17.46	RIVULIS	DRAGON-LINE	12 FT	407		
408	1.25	525.78	0.80	0.80	11.96	17.47	RIVULIS	DRAGON-LINE	12 FT	408		
409	1.25	527.03	0.81	0.80	11.98	17.50	RIVULIS	DRAGON-LINE	12 FT	409		
410	1.25	528.28	0.81	0.80	12.00	17.52	RIVULIS	DRAGON-LINE	12 FT	410		
411	1.25	529.53	0.81	0.80	12.02	17.54	RIVULIS	DRAGON-LINE	12 FT	411		
412	1.25	530.78	0.81	0.80	12.02	17.32	RIVULIS	DRAGON-LINE	12 FT	412		
413	1.25	532.03	0.81	0.80	12.01	17.31	RIVULIS	DRAGON-LINE	12 FT	413		
414	1.25	533.28	0.82	0.80	12.00	17.30	RIVULIS	DRAGON-LINE	12 FT	414		
415	1.25	534.53	0.82	0.80	11.99	17.29	RIVULIS	DRAGON-LINE	12 FT	415		
416	1.25	535.78	0.82	0.80	11.99	17.28	RIVULIS	DRAGON-LINE	12 FT	416		
417	1.25	537.03	0.82	0.80	11.98	17.28	RIVULIS	DRAGON-LINE	12 FT	417		
TOWER 3	179.00	539.60										
418	2.75	539.78	0.82	0.80	11.96	17.26	RIVULIS	DRAGON-LINE	12 FT	418		
419	1.25	541.03	0.83	0.80	11.95	17.25	RIVULIS	DRAGON-LINE	12 FT	419		
420	1.25	542.28	0.83	0.80	11.94	17.24	RIVULIS	DRAGON-LINE	12 FT	420		
421	1.25	543.53	0.83	0.80	11.94	17.23	RIVULIS	DRAGON-LINE	12 FT	421		
422	1.25	544.78	0.83	0.80	11.93	17.22	RIVULIS	DRAGON-LINE	12 FT	422		
423	1.25	546.03	0.83	0.87	11.92	17.22	RIVULIS	DRAGON-LINE	13 FT	423		
424	1.25	547.28	0.84	0.87	11.91	17.21	RIVULIS	DRAGON-LINE	13 FT	424		
425	1.25	548.53	0.84	0.87	11.89	17.40	RIVULIS	DRAGON-LINE	13 FT	425		
426	1.25	549.78	0.84	0.87	11.85	17.36	RIVULIS	DRAGON-LINE	13 FT	426		
427	1.25	551.03	0.84	0.87	11.81	17.32	RIVULIS	DRAGON-LINE	13 FT	427		
428	1.25	552.28	0.84	0.87	11.78	17.28	RIVULIS	DRAGON-LINE	13 FT	428		
429	1.25	553.53	0.85	0.87	11.74	17.25	RIVULIS	DRAGON-LINE	13 FT	429		

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE			SPRK NO.	REG SIZE	PLUG NO.
430	1.25	554.78	0.85	0.87	11.71	17.21	RIVULIS	DRAGON-LINE	13 FT	430		
431	1.25	556.03	0.85	0.87	11.67	17.18	RIVULIS	DRAGON-LINE	13 FT	431		
432	1.25	557.28	0.85	0.87	11.64	17.14	RIVULIS	DRAGON-LINE	13 FT	432		
433	1.25	558.53	0.85	0.87	11.60	17.32	RIVULIS	DRAGON-LINE	13 FT	433		
434	1.25	559.78	0.86	0.87	11.57	17.29	RIVULIS	DRAGON-LINE	13 FT	434		
435	1.25	561.03	0.86	0.87	11.54	17.25	RIVULIS	DRAGON-LINE	13 FT	435		
436	1.25	562.28	0.86	0.87	11.50	17.22	RIVULIS	DRAGON-LINE	13 FT	436		
437	1.25	563.53	0.86	0.87	11.47	17.19	RIVULIS	DRAGON-LINE	13 FT	437		
438	1.25	564.78	0.86	0.87	11.44	17.16	RIVULIS	DRAGON-LINE	13 FT	438		
439	1.25	566.03	0.87	0.87	11.41	17.12	RIVULIS	DRAGON-LINE	13 FT	439		
440	1.25	567.28	0.87	0.87	11.38	17.09	RIVULIS	DRAGON-LINE	13 FT	440		
441	1.25	568.53	0.87	0.87	11.35	17.28	RIVULIS	DRAGON-LINE	13 FT	441		
442	1.25	569.78	0.87	0.87	11.32	17.25	RIVULIS	DRAGON-LINE	13 FT	442		
443	1.25	571.03	0.87	0.87	11.29	17.22	RIVULIS	DRAGON-LINE	13 FT	443		
444	1.25	572.28	0.87	0.87	11.26	17.19	RIVULIS	DRAGON-LINE	13 FT	444		
445	1.25	573.53	0.88	0.87	11.23	17.16	RIVULIS	DRAGON-LINE	13 FT	445		
446	1.25	574.78	0.88	0.87	11.20	17.13	RIVULIS	DRAGON-LINE	13 FT	446		
447	1.25	576.03	0.88	0.87	11.18	17.10	RIVULIS	DRAGON-LINE	13 FT	447		
448	1.25	577.28	0.88	0.87	11.15	17.08	RIVULIS	DRAGON-LINE	13 FT	448		
449	1.25	578.53	0.88	0.87	11.12	17.05	RIVULIS	DRAGON-LINE	13 FT	449		
450	1.25	579.78	0.89	0.87	11.10	17.02	RIVULIS	DRAGON-LINE	13 FT	450		
451	1.25	581.03	0.89	0.87	11.07	17.00	RIVULIS	DRAGON-LINE	13 FT	451		
452	1.25	582.28	0.89	0.87	11.05	17.19	RIVULIS	DRAGON-LINE	13 FT	452		
453	1.25	583.53	0.89	0.87	11.02	17.16	RIVULIS	DRAGON-LINE	13 FT	453		
454	1.25	584.78	0.89	0.87	11.00	17.14	RIVULIS	DRAGON-LINE	13 FT	454		
455	1.25	586.03	0.90	0.87	10.98	17.12	RIVULIS	DRAGON-LINE	13 FT	455		
456	1.25	587.28	0.90	0.87	10.95	17.09	RIVULIS	DRAGON-LINE	13 FT	456		
457	1.25	588.53	0.90	0.87	10.93	17.07	RIVULIS	DRAGON-LINE	13 FT	457		
458	1.25	589.78	0.90	0.93	10.91	17.05	RIVULIS	DRAGON-LINE	14 FT	458		
459	1.25	591.03	0.90	0.93	10.89	17.03	RIVULIS	DRAGON-LINE	14 FT	459		
460	1.25	592.28	0.91	0.93	10.87	17.00	RIVULIS	DRAGON-LINE	14 FT	460		
461	1.25	593.53	0.91	0.93	10.85	16.98	RIVULIS	DRAGON-LINE	14 FT	461		
462	1.25	594.78	0.91	0.93	10.83	16.96	RIVULIS	DRAGON-LINE	14 FT	462		
463	1.25	596.03	0.91	0.93	10.81	16.94	RIVULIS	DRAGON-LINE	14 FT	463		
464	1.25	597.28	0.91	0.93	10.79	16.92	RIVULIS	DRAGON-LINE	14 FT	464		
465	1.25	598.53	0.92	0.93	10.77	16.91	RIVULIS	DRAGON-LINE	14 FT	465		
466	1.25	599.78	0.92	0.93	10.75	16.89	RIVULIS	DRAGON-LINE	14 FT	466		
467	1.25	601.03	0.92	0.93	10.74	16.87	RIVULIS	DRAGON-LINE	14 FT	467		
468	1.25	602.28	0.92	0.93	10.72	17.07	RIVULIS	DRAGON-LINE	14 FT	468		
469	1.25	603.53	0.92	0.93	10.70	17.05	RIVULIS	DRAGON-LINE	14 FT	469		
470	1.25	604.78	0.92	0.93	10.69	17.03	RIVULIS	DRAGON-LINE	14 FT	470		
471	1.25	606.03	0.93	0.93	10.67	17.02	RIVULIS	DRAGON-LINE	14 FT	471		
472	1.25	607.28	0.93	0.93	10.66	17.00	RIVULIS	DRAGON-LINE	14 FT	472		
473	1.25	608.53	0.93	0.93	10.64	16.99	RIVULIS	DRAGON-LINE	14 FT	473		
474	1.25	609.78	0.93	0.93	10.63	16.97	RIVULIS	DRAGON-LINE	14 FT	474		
475	1.25	611.03	0.93	0.93	10.62	16.96	RIVULIS	DRAGON-LINE	14 FT	475		
476	1.25	612.28	0.94	0.93	10.60	16.95	RIVULIS	DRAGON-LINE	14 FT	476		
477	1.25	613.53	0.94	0.93	10.59	16.93	RIVULIS	DRAGON-LINE	14 FT	477		

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE			SPRK NO.	REG SIZE	PLUG NO.
478	1.25	614.78	0.94	0.93	10.58	16.92	RIVULIS	DRAGON-LINE	14 FT	478		
479	1.25	616.03	0.94	0.93	10.57	16.91	RIVULIS	DRAGON-LINE	14 FT	479		
480	1.25	617.28	0.94	0.93	10.56	16.90	RIVULIS	DRAGON-LINE	14 FT	480		
481	1.25	618.53	0.95	0.93	10.55	16.89	RIVULIS	DRAGON-LINE	14 FT	481		
482	1.25	619.78	0.95	0.93	10.54	16.88	RIVULIS	DRAGON-LINE	14 FT	482		
483	1.25	621.03	0.95	0.93	10.53	16.87	RIVULIS	DRAGON-LINE	14 FT	483		
484	1.25	622.28	0.95	0.93	10.52	16.86	RIVULIS	DRAGON-LINE	14 FT	484		
485	1.25	623.53	0.95	0.93	10.51	16.85	RIVULIS	DRAGON-LINE	14 FT	485		
486	1.25	624.78	0.96	0.93	10.50	16.84	RIVULIS	DRAGON-LINE	14 FT	486		
487	1.25	626.03	0.96	0.93	10.49	16.83	RIVULIS	DRAGON-LINE	14 FT	487		
488	1.25	627.28	0.96	0.93	10.49	16.82	RIVULIS	DRAGON-LINE	14 FT	488		
489	1.25	628.53	0.96	0.93	10.48	16.82	RIVULIS	DRAGON-LINE	14 FT	489		
490	1.25	629.78	0.96	0.93	10.47	16.81	RIVULIS	DRAGON-LINE	14 FT	490		
491	1.25	631.03	0.96	0.93	10.47	16.80	RIVULIS	DRAGON-LINE	14 FT	491		
492	1.25	632.28	0.97	0.93	10.46	16.80	RIVULIS	DRAGON-LINE	14 FT	492		
493	1.25	633.53	0.97	1.00	10.46	16.79	RIVULIS	DRAGON-LINE	15 FT	493		
494	1.25	634.78	0.97	1.00	10.45	16.79	RIVULIS	DRAGON-LINE	15 FT	494		
495	1.25	636.03	0.97	1.00	10.45	16.78	RIVULIS	DRAGON-LINE	15 FT	495		
496	1.25	637.28	0.97	1.00	10.45	16.78	RIVULIS	DRAGON-LINE	15 FT	496		
497	1.25	638.53	0.98	1.00	10.45	16.78	RIVULIS	DRAGON-LINE	15 FT	497		
498	1.25	639.78	0.98	1.00	10.44	16.78	RIVULIS	DRAGON-LINE	15 FT	498		
499	1.25	641.03	0.98	1.00	10.44	16.77	RIVULIS	DRAGON-LINE	15 FT	499		
500	1.25	642.28	0.98	1.00	10.44	16.77	RIVULIS	DRAGON-LINE	15 FT	500		
501	1.25	643.53	0.98	1.00	10.44	16.77	RIVULIS	DRAGON-LINE	15 FT	501		
502	1.25	644.78	0.99	1.00	10.44	16.77	RIVULIS	DRAGON-LINE	15 FT	502		
503	1.25	646.03	0.99	1.00	10.44	16.77	RIVULIS	DRAGON-LINE	15 FT	503		
504	1.25	647.28	0.99	1.00	10.44	16.77	RIVULIS	DRAGON-LINE	15 FT	504		
505	1.25	648.53	0.99	1.00	10.44	16.77	RIVULIS	DRAGON-LINE	15 FT	505		
506	1.25	649.78	0.99	1.00	10.45	16.77	RIVULIS	DRAGON-LINE	15 FT	506		
507	1.25	651.03	1.00	1.00	10.45	16.77	RIVULIS	DRAGON-LINE	15 FT	507		
508	1.25	652.28	1.00	1.00	10.45	16.78	RIVULIS	DRAGON-LINE	15 FT	508		
509	1.25	653.53	1.00	1.00	10.45	16.78	RIVULIS	DRAGON-LINE	15 FT	509		
510	1.25	654.78	1.00	1.00	10.46	16.78	RIVULIS	DRAGON-LINE	15 FT	510		
511	1.25	656.03	1.00	1.00	10.46	16.57	RIVULIS	DRAGON-LINE	15 FT	511		
512	1.25	657.28	1.00	1.00	10.47	16.58	RIVULIS	DRAGON-LINE	15 FT	512		
513	1.25	658.53	1.01	1.00	10.47	16.58	RIVULIS	DRAGON-LINE	15 FT	513		
514	1.25	659.78	1.01	1.00	10.48	16.59	RIVULIS	DRAGON-LINE	15 FT	514		
515	1.25	661.03	1.01	1.00	10.49	16.59	RIVULIS	DRAGON-LINE	15 FT	515		
516	1.25	662.28	1.01	1.00	10.49	16.60	RIVULIS	DRAGON-LINE	15 FT	516		
517	1.25	663.53	1.01	1.00	10.50	16.60	RIVULIS	DRAGON-LINE	15 FT	517		
518	1.25	664.78	1.02	1.00	10.51	16.61	RIVULIS	DRAGON-LINE	15 FT	518		
519	1.25	666.03	1.02	1.00	10.52	16.62	RIVULIS	DRAGON-LINE	15 FT	519		
520	1.25	667.28	1.02	1.00	10.53	16.63	RIVULIS	DRAGON-LINE	15 FT	520		
521	1.25	668.53	1.02	1.00	10.53	16.64	RIVULIS	DRAGON-LINE	15 FT	521		
522	1.25	669.78	1.02	1.00	10.54	16.65	RIVULIS	DRAGON-LINE	15 FT	522		
523	1.25	671.03	1.03	1.00	10.55	16.66	RIVULIS	DRAGON-LINE	15 FT	523		
524	1.25	672.28	1.03	1.00	10.57	16.67	RIVULIS	DRAGON-LINE	15 FT	524		
525	1.25	673.53	1.03	1.00	10.58	16.68	RIVULIS	DRAGON-LINE	15 FT	525		

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE			SPRK NO.	REG SIZE	PLUG NO.
526	1.25	674.78	1.03	1.00	10.59	16.47	RIVULIS	DRAGON-LINE	15 FT	526		
527	1.25	676.03	1.03	1.00	10.60	16.48	RIVULIS	DRAGON-LINE	15 FT	527		
528	1.25	677.28	1.04	1.07	10.61	16.50	RIVULIS	DRAGON-LINE	16 FT	528		
529	1.25	678.53	1.04	1.07	10.63	16.51	RIVULIS	DRAGON-LINE	16 FT	529		
530	1.25	679.78	1.04	1.07	10.64	16.52	RIVULIS	DRAGON-LINE	16 FT	530		
531	1.25	681.03	1.04	1.07	10.66	16.54	RIVULIS	DRAGON-LINE	16 FT	531		
532	1.25	682.28	1.04	1.07	10.67	16.55	RIVULIS	DRAGON-LINE	16 FT	532		
533	1.25	683.53	1.05	1.07	10.69	16.56	RIVULIS	DRAGON-LINE	16 FT	533		
534	1.25	684.78	1.05	1.07	10.70	16.58	RIVULIS	DRAGON-LINE	16 FT	534		
535	1.25	686.03	1.05	1.07	10.72	16.60	RIVULIS	DRAGON-LINE	16 FT	535		
536	1.25	687.28	1.05	1.07	10.73	16.61	RIVULIS	DRAGON-LINE	16 FT	536		
537	1.25	688.53	1.05	1.07	10.75	16.41	RIVULIS	DRAGON-LINE	16 FT	537		
538	1.25	689.78	1.05	1.07	10.77	16.43	RIVULIS	DRAGON-LINE	16 FT	538		
539	1.25	691.03	1.06	1.07	10.79	16.45	RIVULIS	DRAGON-LINE	16 FT	539		
540	1.25	692.28	1.06	1.07	10.81	16.47	RIVULIS	DRAGON-LINE	16 FT	540		
541	1.25	693.53	1.06	1.07	10.83	16.48	RIVULIS	DRAGON-LINE	16 FT	541		
542	1.25	694.78	1.06	1.07	10.85	16.50	RIVULIS	DRAGON-LINE	16 FT	542		
543	1.25	696.03	1.06	1.07	10.87	16.52	RIVULIS	DRAGON-LINE	16 FT	543		
544	1.25	697.28	1.07	1.07	10.89	16.54	RIVULIS	DRAGON-LINE	16 FT	544		
545	1.25	698.53	1.07	1.07	10.91	16.56	RIVULIS	DRAGON-LINE	16 FT	545		
546	1.25	699.78	1.07	1.07	10.93	16.37	RIVULIS	DRAGON-LINE	16 FT	546		
547	1.25	701.03	1.07	1.07	10.95	16.39	RIVULIS	DRAGON-LINE	16 FT	547		
548	1.25	702.28	1.07	1.07	10.97	16.41	RIVULIS	DRAGON-LINE	16 FT	548		
549	1.25	703.53	1.08	1.07	11.00	16.44	RIVULIS	DRAGON-LINE	16 FT	549		
550	1.25	704.78	1.08	1.07	11.02	16.46	RIVULIS	DRAGON-LINE	16 FT	550		
551	1.25	706.03	1.08	1.07	11.05	16.48	RIVULIS	DRAGON-LINE	16 FT	551		
552	1.25	707.28	1.08	1.07	11.07	16.51	RIVULIS	DRAGON-LINE	16 FT	552		
553	1.25	708.53	1.08	1.07	11.10	16.53	RIVULIS	DRAGON-LINE	16 FT	553		
554	1.25	709.78	1.09	1.07	11.10	16.32	RIVULIS	DRAGON-LINE	16 FT	554		
555	1.25	711.03	1.09	1.07	11.09	16.31	RIVULIS	DRAGON-LINE	16 FT	555		
556	1.25	712.28	1.09	1.07	11.09	16.31	RIVULIS	DRAGON-LINE	16 FT	556		
557	1.25	713.53	1.09	1.07	11.08	16.30	RIVULIS	DRAGON-LINE	16 FT	557		
558	1.25	714.78	1.09	1.07	11.08	16.30	RIVULIS	DRAGON-LINE	16 FT	558		
559	1.25	716.03	1.10	1.07	11.07	16.29	RIVULIS	DRAGON-LINE	16 FT	559		
TOWER 4	179.00	718.60										
560	2.75	718.78	1.10	1.07	11.06	16.28	RIVULIS	DRAGON-LINE	16 FT	560		
561	1.25	720.03	1.10	1.13	11.06	16.27	RIVULIS	DRAGON-LINE	17 FT	561		
562	1.25	721.28	1.10	1.13	11.05	16.27	RIVULIS	DRAGON-LINE	17 FT	562		
563	1.25	722.53	1.10	1.13	11.05	16.26	RIVULIS	DRAGON-LINE	17 FT	563		
564	1.25	723.78	1.11	1.13	11.05	16.26	RIVULIS	DRAGON-LINE	17 FT	564		
565	1.25	725.03	1.11	1.13	11.04	16.25	RIVULIS	DRAGON-LINE	17 FT	565		
566	1.25	726.28	1.11	1.13	11.02	16.45	RIVULIS	DRAGON-LINE	17 FT	566		
567	1.25	727.53	1.11	1.13	10.98	16.41	RIVULIS	DRAGON-LINE	17 FT	567		
568	1.25	728.78	1.11	1.13	10.94	16.37	RIVULIS	DRAGON-LINE	17 FT	568		
569	1.25	730.03	1.12	1.13	10.91	16.33	RIVULIS	DRAGON-LINE	17 FT	569		
570	1.25	731.28	1.12	1.13	10.87	16.29	RIVULIS	DRAGON-LINE	17 FT	570		
571	1.25	732.53	1.12	1.13	10.83	16.26	RIVULIS	DRAGON-LINE	17 FT	571		
572	1.25	733.78	1.12	1.13	10.80	16.22	RIVULIS	DRAGON-LINE	17 FT	572		

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE			SPRK NO.	REG SIZE	PLUG NO.
573	1.25	735.03	1.12	1.13	10.76	16.40	RIVULIS	DRAGON-LINE	17 FT	573		
574	1.25	736.28	1.13	1.13	10.73	16.37	RIVULIS	DRAGON-LINE	17 FT	574		
575	1.25	737.53	1.13	1.13	10.70	16.33	RIVULIS	DRAGON-LINE	17 FT	575		
576	1.25	738.78	1.13	1.13	10.66	16.30	RIVULIS	DRAGON-LINE	17 FT	576		
577	1.25	740.03	1.13	1.13	10.63	16.27	RIVULIS	DRAGON-LINE	17 FT	577		
578	1.25	741.28	1.13	1.13	10.60	16.24	RIVULIS	DRAGON-LINE	17 FT	578		
579	1.25	742.53	1.14	1.13	10.57	16.21	RIVULIS	DRAGON-LINE	17 FT	579		
580	1.25	743.78	1.14	1.13	10.54	16.39	RIVULIS	DRAGON-LINE	17 FT	580		
581	1.25	745.03	1.14	1.13	10.51	16.36	RIVULIS	DRAGON-LINE	17 FT	581		
582	1.25	746.28	1.14	1.13	10.48	16.33	RIVULIS	DRAGON-LINE	17 FT	582		
583	1.25	747.53	1.14	1.13	10.45	16.30	RIVULIS	DRAGON-LINE	17 FT	583		
584	1.25	748.78	1.14	1.13	10.43	16.27	RIVULIS	DRAGON-LINE	17 FT	584		
585	1.25	750.03	1.15	1.13	10.40	16.25	RIVULIS	DRAGON-LINE	17 FT	585		
586	1.25	751.28	1.15	1.13	10.37	16.22	RIVULIS	DRAGON-LINE	17 FT	586		
587	1.25	752.53	1.15	1.13	10.35	16.19	RIVULIS	DRAGON-LINE	17 FT	587		
588	1.25	753.78	1.15	1.13	10.32	16.17	RIVULIS	DRAGON-LINE	17 FT	588		
589	1.25	755.03	1.15	1.13	10.30	16.14	RIVULIS	DRAGON-LINE	17 FT	589		
590	1.25	756.28	1.16	1.13	10.28	16.33	RIVULIS	DRAGON-LINE	17 FT	590		
591	1.25	757.53	1.16	1.13	10.25	16.31	RIVULIS	DRAGON-LINE	17 FT	591		
592	1.25	758.78	1.16	1.13	10.23	16.29	RIVULIS	DRAGON-LINE	17 FT	592		
593	1.25	760.03	1.16	1.13	10.21	16.26	RIVULIS	DRAGON-LINE	17 FT	593		
594	1.25	761.28	1.16	1.13	10.19	16.24	RIVULIS	DRAGON-LINE	17 FT	594		
595	1.25	762.53	1.17	1.13	10.17	16.22	RIVULIS	DRAGON-LINE	17 FT	595		
596	1.25	763.78	1.17	1.20	10.15	16.20	RIVULIS	DRAGON-LINE	18 FT	596		
597	1.25	765.03	1.17	1.20	10.13	16.18	RIVULIS	DRAGON-LINE	18 FT	597		
598	1.25	766.28	1.17	1.20	10.11	16.16	RIVULIS	DRAGON-LINE	18 FT	598		
599	1.25	767.53	1.17	1.20	10.09	16.14	RIVULIS	DRAGON-LINE	18 FT	599		
600	1.25	768.78	1.18	1.20	10.07	16.12	RIVULIS	DRAGON-LINE	18 FT	600		
601	1.25	770.03	1.18	1.20	10.06	16.11	RIVULIS	DRAGON-LINE	18 FT	601		
602	1.25	771.28	1.18	1.20	10.04	16.09	RIVULIS	DRAGON-LINE	18 FT	602		
603	1.25	772.53	1.18	1.20	10.03	16.07	RIVULIS	DRAGON-LINE	18 FT	603		
604	1.25	773.78	1.18	1.20	10.01	16.27	RIVULIS	DRAGON-LINE	18 FT	604		
605	1.25	775.03	1.18	1.20	10.00	16.26	RIVULIS	DRAGON-LINE	18 FT	605		
606	1.25	776.28	1.19	1.20	9.98	16.24	RIVULIS	DRAGON-LINE	18 FT	606		
607	1.25	777.53	1.19	1.20	9.97	16.23	RIVULIS	DRAGON-LINE	18 FT	607		
608	1.25	778.78	1.19	1.20	9.96	16.22	RIVULIS	DRAGON-LINE	18 FT	608		
609	1.25	780.03	1.19	1.20	9.95	16.21	RIVULIS	DRAGON-LINE	18 FT	609		
610	1.25	781.28	1.19	1.20	9.93	16.19	RIVULIS	DRAGON-LINE	18 FT	610		
611	1.25	782.53	1.20	1.20	9.92	16.18	RIVULIS	DRAGON-LINE	18 FT	611		
612	1.25	783.78	1.20	1.20	9.91	16.17	RIVULIS	DRAGON-LINE	18 FT	612		
613	1.25	785.03	1.20	1.20	9.91	16.16	RIVULIS	DRAGON-LINE	18 FT	613		
614	1.25	786.28	1.20	1.20	9.90	16.15	RIVULIS	DRAGON-LINE	18 FT	614		
615	1.25	787.53	1.20	1.20	9.89	16.14	RIVULIS	DRAGON-LINE	18 FT	615		
616	1.25	788.78	1.21	1.20	9.88	16.14	RIVULIS	DRAGON-LINE	18 FT	616		
617	1.25	790.03	1.21	1.20	9.87	16.13	RIVULIS	DRAGON-LINE	18 FT	617		
618	1.25	791.28	1.21	1.20	9.87	16.12	RIVULIS	DRAGON-LINE	18 FT	618		
619	1.25	792.53	1.21	1.20	9.86	16.12	RIVULIS	DRAGON-LINE	18 FT	619		
620	1.25	793.78	1.21	1.20	9.86	16.11	RIVULIS	DRAGON-LINE	18 FT	620		



OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE			SPRK NO.	REG SIZE	PLUG NO.
621	1.25	795.03	1.22	1.20	9.85	16.11	RIVULIS	DRAGON-LINE	18 FT	621		
622	1.25	796.28	1.22	1.20	9.85	16.10	RIVULIS	DRAGON-LINE	18 FT	622		
623	1.25	797.53	1.22	1.20	9.85	16.10	RIVULIS	DRAGON-LINE	18 FT	623		
624	1.25	798.78	1.22	1.20	9.85	16.10	RIVULIS	DRAGON-LINE	18 FT	624		
625	1.25	800.03	1.22	1.20	9.84	16.09	RIVULIS	DRAGON-LINE	18 FT	625		
626	1.25	801.28	1.23	1.20	9.84	16.09	RIVULIS	DRAGON-LINE	18 FT	626		
627	1.25	802.53	1.23	1.20	9.84	16.09	RIVULIS	DRAGON-LINE	18 FT	627		
628	1.25	803.78	1.23	1.20	9.84	16.09	RIVULIS	DRAGON-LINE	18 FT	628		
629	1.25	805.03	1.23	1.20	9.84	16.09	RIVULIS	DRAGON-LINE	18 FT	629		
630	1.25	806.28	1.23	1.20	9.85	16.09	RIVULIS	DRAGON-LINE	18 FT	630		
631	1.25	807.53	1.23	1.27	9.85	16.09	RIVULIS	DRAGON-LINE	19 FT	631		
632	1.25	808.78	1.24	1.27	9.85	16.10	RIVULIS	DRAGON-LINE	19 FT	632		
633	1.25	810.03	1.24	1.27	9.85	16.10	RIVULIS	DRAGON-LINE	19 FT	633		
634	1.25	811.28	1.24	1.27	9.86	16.10	RIVULIS	DRAGON-LINE	19 FT	634		
635	1.25	812.53	1.24	1.27	9.86	16.11	RIVULIS	DRAGON-LINE	19 FT	635		
636	1.25	813.78	1.24	1.27	9.87	16.11	RIVULIS	DRAGON-LINE	19 FT	636		
637	1.25	815.03	1.25	1.27	9.88	16.12	RIVULIS	DRAGON-LINE	19 FT	637		
638	1.25	816.28	1.25	1.27	9.88	16.12	RIVULIS	DRAGON-LINE	19 FT	638		
639	1.25	817.53	1.25	1.27	9.89	16.13	RIVULIS	DRAGON-LINE	19 FT	639		
640	1.25	818.78	1.25	1.27	9.90	16.13	RIVULIS	DRAGON-LINE	19 FT	640		
641	1.25	820.03	1.25	1.27	9.91	15.93	RIVULIS	DRAGON-LINE	19 FT	641		
642	1.25	821.28	1.26	1.27	9.91	15.94	RIVULIS	DRAGON-LINE	19 FT	642		
643	1.25	822.53	1.26	1.27	9.92	15.95	RIVULIS	DRAGON-LINE	19 FT	643		
644	1.25	823.78	1.26	1.27	9.93	15.95	RIVULIS	DRAGON-LINE	19 FT	644		
645	1.25	825.03	1.26	1.27	9.95	15.97	RIVULIS	DRAGON-LINE	19 FT	645		
646	1.25	826.28	1.26	1.27	9.96	15.98	RIVULIS	DRAGON-LINE	19 FT	646		
647	1.25	827.53	1.27	1.27	9.97	15.99	RIVULIS	DRAGON-LINE	19 FT	647		
648	1.25	828.78	1.27	1.27	9.98	16.00	RIVULIS	DRAGON-LINE	19 FT	648		
649	1.25	830.03	1.27	1.27	10.00	16.01	RIVULIS	DRAGON-LINE	19 FT	649		
650	1.25	831.28	1.27	1.27	10.01	16.03	RIVULIS	DRAGON-LINE	19 FT	650		
651	1.25	832.53	1.27	1.27	10.03	16.04	RIVULIS	DRAGON-LINE	19 FT	651		
652	1.25	833.78	1.27	1.27	10.04	16.06	RIVULIS	DRAGON-LINE	19 FT	652		
653	1.25	835.03	1.28	1.27	10.06	16.07	RIVULIS	DRAGON-LINE	19 FT	653		
654	1.25	836.28	1.28	1.27	10.07	16.09	RIVULIS	DRAGON-LINE	19 FT	654		
655	1.25	837.53	1.28	1.27	10.09	15.89	RIVULIS	DRAGON-LINE	19 FT	655		
656	1.25	838.78	1.28	1.27	10.11	15.91	RIVULIS	DRAGON-LINE	19 FT	656		
657	1.25	840.03	1.28	1.27	10.13	15.92	RIVULIS	DRAGON-LINE	19 FT	657		
658	1.25	841.28	1.29	1.27	10.15	15.94	RIVULIS	DRAGON-LINE	19 FT	658		
659	1.25	842.53	1.29	1.27	10.17	15.96	RIVULIS	DRAGON-LINE	19 FT	659		
660	1.25	843.78	1.29	1.27	10.19	15.98	RIVULIS	DRAGON-LINE	19 FT	660		
661	1.25	845.03	1.29	1.27	10.21	16.00	RIVULIS	DRAGON-LINE	19 FT	661		
662	1.25	846.28	1.29	1.27	10.23	16.02	RIVULIS	DRAGON-LINE	19 FT	662		
663	1.25	847.53	1.30	1.27	10.25	16.04	RIVULIS	DRAGON-LINE	19 FT	663		
664	1.25	848.78	1.30	1.27	10.28	16.07	RIVULIS	DRAGON-LINE	19 FT	664		
665	1.25	850.03	1.30	1.27	10.30	15.87	RIVULIS	DRAGON-LINE	19 FT	665		
666	1.25	851.28	1.30	1.33	10.32	15.90	RIVULIS	DRAGON-LINE	20 FT	666		
667	1.25	852.53	1.30	1.33	10.35	15.92	RIVULIS	DRAGON-LINE	20 FT	667		
668	1.25	853.78	1.31	1.33	10.37	15.95	RIVULIS	DRAGON-LINE	20 FT	668		

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE			SPRK NO.	REG SIZE	PLUG NO.
669	1.25	855.03	1.31	1.33	10.40	15.97	RIVULIS	DRAGON-LINE	20 FT	669		
670	1.25	856.28	1.31	1.33	10.43	16.00	RIVULIS	DRAGON-LINE	20 FT	670		
671	1.25	857.53	1.31	1.33	10.45	16.02	RIVULIS	DRAGON-LINE	20 FT	671		
672	1.25	858.78	1.31	1.33	10.48	15.84	RIVULIS	DRAGON-LINE	20 FT	672		
673	1.25	860.03	1.31	1.33	10.51	15.87	RIVULIS	DRAGON-LINE	20 FT	673		
674	1.25	861.28	1.32	1.33	10.54	15.89	RIVULIS	DRAGON-LINE	20 FT	674		
675	1.25	862.53	1.32	1.33	10.57	15.92	RIVULIS	DRAGON-LINE	20 FT	675		
676	1.25	863.78	1.32	1.33	10.60	15.95	RIVULIS	DRAGON-LINE	20 FT	676		
677	1.25	865.03	1.32	1.33	10.63	15.98	RIVULIS	DRAGON-LINE	20 FT	677		
678	1.25	866.28	1.32	1.33	10.66	16.01	RIVULIS	DRAGON-LINE	20 FT	678		
679	1.25	867.53	1.33	1.33	10.68	15.82	RIVULIS	DRAGON-LINE	20 FT	679		
680	1.25	868.78	1.33	1.33	10.68	15.81	RIVULIS	DRAGON-LINE	20 FT	680		
681	1.25	870.03	1.33	1.33	10.68	15.81	RIVULIS	DRAGON-LINE	20 FT	681		
682	1.25	871.28	1.33	1.33	10.68	15.81	RIVULIS	DRAGON-LINE	20 FT	682		
683	1.25	872.53	1.33	1.33	10.67	15.81	RIVULIS	DRAGON-LINE	20 FT	683		
TOWER 5	157.00	875.60										
684	3.25	875.78	1.34	1.33	10.67	15.80	RIVULIS	DRAGON-LINE	20 FT	684		
685	1.25	877.03	1.34	1.33	10.67	15.80	RIVULIS	DRAGON-LINE	20 FT	685		
686	1.25	878.28	1.34	1.33	10.67	15.79	RIVULIS	DRAGON-LINE	20 FT	686		
687	1.25	879.53	1.34	1.33	10.66	15.79	RIVULIS	DRAGON-LINE	20 FT	687		
688	1.25	880.78	1.35	1.33	10.66	15.79	RIVULIS	DRAGON-LINE	20 FT	688		
689	1.25	882.03	1.35	1.33	10.66	15.79	RIVULIS	DRAGON-LINE	20 FT	689		
690	1.25	883.28	1.35	1.33	10.64	15.98	RIVULIS	DRAGON-LINE	20 FT	690		
691	1.25	884.53	1.35	1.33	10.61	15.95	RIVULIS	DRAGON-LINE	20 FT	691		
692	1.25	885.78	1.35	1.33	10.57	15.91	RIVULIS	DRAGON-LINE	20 FT	692		
693	1.25	887.03	1.36	1.33	10.54	15.88	RIVULIS	DRAGON-LINE	20 FT	693		
694	1.25	888.28	1.36	1.33	10.50	15.84	RIVULIS	DRAGON-LINE	20 FT	694		
695	1.25	889.53	1.36	1.33	10.47	15.81	RIVULIS	DRAGON-LINE	20 FT	695		
696	1.25	890.78	1.36	1.33	10.44	15.77	RIVULIS	DRAGON-LINE	20 FT	696		
697	1.25	892.03	1.36	1.33	10.41	15.96	RIVULIS	DRAGON-LINE	20 FT	697		
698	1.25	893.28	1.37	1.33	10.38	15.92	RIVULIS	DRAGON-LINE	20 FT	698		
699	1.25	894.53	1.37	1.40	10.34	15.89	RIVULIS	DRAGON-LINE	21 FT	699		
700	1.25	895.78	1.37	1.40	10.31	15.86	RIVULIS	DRAGON-LINE	21 FT	700		
701	1.25	897.03	1.37	1.40	10.29	15.83	RIVULIS	DRAGON-LINE	21 FT	701		
702	1.25	898.28	1.37	1.40	10.26	15.80	RIVULIS	DRAGON-LINE	21 FT	702		
703	1.25	899.53	1.38	1.40	10.23	15.77	RIVULIS	DRAGON-LINE	21 FT	703		
704	1.25	900.78	1.38	1.40	10.20	15.96	RIVULIS	DRAGON-LINE	21 FT	704		
705	1.25	902.03	1.38	1.40	10.17	15.93	RIVULIS	DRAGON-LINE	21 FT	705		
706	1.25	903.28	1.38	1.40	10.15	15.91	RIVULIS	DRAGON-LINE	21 FT	706		
707	1.25	904.53	1.38	1.40	10.12	15.88	RIVULIS	DRAGON-LINE	21 FT	707		
708	1.25	905.78	1.38	1.40	10.10	15.85	RIVULIS	DRAGON-LINE	21 FT	708		
709	1.25	907.03	1.39	1.40	10.07	15.83	RIVULIS	DRAGON-LINE	21 FT	709		
710	1.25	908.28	1.39	1.40	10.05	15.80	RIVULIS	DRAGON-LINE	21 FT	710		
711	1.25	909.53	1.39	1.40	10.03	15.78	RIVULIS	DRAGON-LINE	21 FT	711		
712	1.25	910.78	1.39	1.40	10.00	15.76	RIVULIS	DRAGON-LINE	21 FT	712		
713	1.25	912.03	1.39	1.40	9.98	15.74	RIVULIS	DRAGON-LINE	21 FT	713		
714	1.25	913.28	1.40	1.40	9.96	15.93	RIVULIS	DRAGON-LINE	21 FT	714		
715	1.25	914.53	1.40	1.40	9.94	15.91	RIVULIS	DRAGON-LINE	21 FT	715		

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE			SPRK NO.	REG SIZE	PLUG NO.
716	1.25	915.78	1.40	1.40	9.92	15.89	RIVULIS	DRAGON-LINE	21 FT	716		
717	1.25	917.03	1.40	1.40	9.90	15.87	RIVULIS	DRAGON-LINE	21 FT	717		
718	1.25	918.28	1.40	1.40	9.88	15.85	RIVULIS	DRAGON-LINE	21 FT	718		
719	1.25	919.53	1.41	1.40	9.87	15.83	RIVULIS	DRAGON-LINE	21 FT	719		
720	1.25	920.78	1.41	1.40	9.85	15.81	RIVULIS	DRAGON-LINE	21 FT	720		
721	1.25	922.03	1.41	1.40	9.83	15.79	RIVULIS	DRAGON-LINE	21 FT	721		
722	1.25	923.28	1.41	1.40	9.82	15.78	RIVULIS	DRAGON-LINE	21 FT	722		
723	1.25	924.53	1.41	1.40	9.80	15.76	RIVULIS	DRAGON-LINE	21 FT	723		
724	1.25	925.78	1.42	1.40	9.79	15.74	RIVULIS	DRAGON-LINE	21 FT	724		
725	1.25	927.03	1.42	1.40	9.77	15.73	RIVULIS	DRAGON-LINE	21 FT	725		
726	1.25	928.28	1.42	1.40	9.76	15.71	RIVULIS	DRAGON-LINE	21 FT	726		
727	1.25	929.53	1.42	1.40	9.74	15.70	RIVULIS	DRAGON-LINE	21 FT	727		
728	1.25	930.78	1.42	1.40	9.73	15.90	RIVULIS	DRAGON-LINE	21 FT	728		
729	1.25	932.03	1.43	1.40	9.72	15.89	RIVULIS	DRAGON-LINE	21 FT	729		
730	1.25	933.28	1.43	1.40	9.71	15.88	RIVULIS	DRAGON-LINE	21 FT	730		
731	1.25	934.53	1.43	1.40	9.70	15.87	RIVULIS	DRAGON-LINE	21 FT	731		
732	1.25	935.78	1.43	1.40	9.69	15.86	RIVULIS	DRAGON-LINE	21 FT	732		
733	1.25	937.03	1.43	1.40	9.68	15.85	RIVULIS	DRAGON-LINE	21 FT	733		
734	1.25	938.28	1.43	1.47	9.67	15.84	RIVULIS	DRAGON-LINE	22 FT	734		
735	1.25	939.53	1.44	1.47	9.66	15.83	RIVULIS	DRAGON-LINE	22 FT	735		
736	1.25	940.78	1.44	1.47	9.66	15.82	RIVULIS	DRAGON-LINE	22 FT	736		
737	1.25	942.03	1.44	1.47	9.65	15.81	RIVULIS	DRAGON-LINE	22 FT	737		
738	1.25	943.28	1.44	1.47	9.64	15.80	RIVULIS	DRAGON-LINE	22 FT	738		
739	1.25	944.53	1.44	1.47	9.64	15.80	RIVULIS	DRAGON-LINE	22 FT	739		
740	1.25	945.78	1.45	1.47	9.63	15.79	RIVULIS	DRAGON-LINE	22 FT	740		
741	1.25	947.03	1.45	1.47	9.63	15.79	RIVULIS	DRAGON-LINE	22 FT	741		
742	1.25	948.28	1.45	1.47	9.62	15.78	RIVULIS	DRAGON-LINE	22 FT	742		
743	1.25	949.53	1.45	1.47	9.62	15.78	RIVULIS	DRAGON-LINE	22 FT	743		
744	1.25	950.78	1.45	1.47	9.62	15.78	RIVULIS	DRAGON-LINE	22 FT	744		
745	1.25	952.03	1.46	1.47	9.62	15.77	RIVULIS	DRAGON-LINE	22 FT	745		
746	1.25	953.28	1.46	1.47	9.62	15.77	RIVULIS	DRAGON-LINE	22 FT	746		
747	1.25	954.53	1.46	1.47	9.62	15.77	RIVULIS	DRAGON-LINE	22 FT	747		
748	1.25	955.78	1.46	1.47	9.62	15.77	RIVULIS	DRAGON-LINE	22 FT	748		
749	1.25	957.03	1.46	1.47	9.62	15.77	RIVULIS	DRAGON-LINE	22 FT	749		
750	1.25	958.28	1.47	1.47	9.62	15.77	RIVULIS	DRAGON-LINE	22 FT	750		
751	1.25	959.53	1.47	1.47	9.62	15.77	RIVULIS	DRAGON-LINE	22 FT	751		
752	1.25	960.78	1.47	1.47	9.62	15.77	RIVULIS	DRAGON-LINE	22 FT	752		
753	1.25	962.03	1.47	1.47	9.63	15.78	RIVULIS	DRAGON-LINE	22 FT	753		
754	1.25	963.28	1.47	1.47	9.63	15.78	RIVULIS	DRAGON-LINE	22 FT	754		
755	1.25	964.53	1.47	1.47	9.63	15.78	RIVULIS	DRAGON-LINE	22 FT	755		
756	1.25	965.78	1.48	1.47	9.64	15.79	RIVULIS	DRAGON-LINE	22 FT	756		
757	1.25	967.03	1.48	1.47	9.65	15.79	RIVULIS	DRAGON-LINE	22 FT	757		
758	1.25	968.28	1.48	1.47	9.65	15.80	RIVULIS	DRAGON-LINE	22 FT	758		
759	1.25	969.53	1.48	1.47	9.66	15.80	RIVULIS	DRAGON-LINE	22 FT	759		
760	1.25	970.78	1.48	1.47	9.67	15.81	RIVULIS	DRAGON-LINE	22 FT	760		
761	1.25	972.03	1.49	1.47	9.67	15.82	RIVULIS	DRAGON-LINE	22 FT	761		
762	1.25	973.28	1.49	1.47	9.68	15.82	RIVULIS	DRAGON-LINE	22 FT	762		
763	1.25	974.53	1.49	1.47	9.69	15.83	RIVULIS	DRAGON-LINE	22 FT	763		

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE				SPRK NO.	REG SIZE	PLUG NO.
764	1.25	975.78	1.49	1.47	9.70	15.84	RIVULIS	DRAGON-LINE	22	FT	764		
765	1.25	977.03	1.49	1.47	9.71	15.64	RIVULIS	DRAGON-LINE	22	FT	765		
766	1.25	978.28	1.50	1.47	9.72	15.65	RIVULIS	DRAGON-LINE	22	FT	766		
767	1.25	979.53	1.50	1.47	9.74	15.66	RIVULIS	DRAGON-LINE	22	FT	767		
768	1.25	980.78	1.50	1.47	9.75	15.67	RIVULIS	DRAGON-LINE	22	FT	768		
769	1.25	982.03	1.50	1.53	9.76	15.68	RIVULIS	DRAGON-LINE	23	FT	769		
770	1.25	983.28	1.50	1.53	9.78	15.70	RIVULIS	DRAGON-LINE	23	FT	770		
771	1.25	984.53	1.51	1.53	9.79	15.71	RIVULIS	DRAGON-LINE	23	FT	771		
772	1.25	985.78	1.51	1.53	9.81	15.72	RIVULIS	DRAGON-LINE	23	FT	772		
773	1.25	987.03	1.51	1.53	9.82	15.74	RIVULIS	DRAGON-LINE	23	FT	773		
774	1.25	988.28	1.51	1.53	9.84	15.75	RIVULIS	DRAGON-LINE	23	FT	774		
775	1.25	989.53	1.51	1.53	9.85	15.77	RIVULIS	DRAGON-LINE	23	FT	775		
776	1.25	990.78	1.51	1.53	9.87	15.79	RIVULIS	DRAGON-LINE	23	FT	776		
777	1.25	992.03	1.52	1.53	9.89	15.80	RIVULIS	DRAGON-LINE	23	FT	777		
778	1.25	993.28	1.52	1.53	9.91	15.82	RIVULIS	DRAGON-LINE	23	FT	778		
779	1.25	994.53	1.52	1.53	9.93	15.63	RIVULIS	DRAGON-LINE	23	FT	779		
780	1.25	995.78	1.52	1.53	9.95	15.65	RIVULIS	DRAGON-LINE	23	FT	780		
781	1.25	997.03	1.52	1.53	9.97	15.67	RIVULIS	DRAGON-LINE	23	FT	781		
782	1.25	998.28	1.53	1.53	9.99	15.69	RIVULIS	DRAGON-LINE	23	FT	782		
783	1.25	999.53	1.53	1.53	10.01	15.71	RIVULIS	DRAGON-LINE	23	FT	783		
784	1.25	1000.78	1.53	1.53	10.03	15.73	RIVULIS	DRAGON-LINE	23	FT	784		
785	1.25	1002.03	1.53	1.53	10.06	15.75	RIVULIS	DRAGON-LINE	23	FT	785		
786	1.25	1003.28	1.53	1.53	10.08	15.77	RIVULIS	DRAGON-LINE	23	FT	786		
787	1.25	1004.53	1.54	1.53	10.11	15.80	RIVULIS	DRAGON-LINE	23	FT	787		
788	1.25	1005.78	1.54	1.53	10.13	15.82	RIVULIS	DRAGON-LINE	23	FT	788		
789	1.25	1007.03	1.54	1.53	10.16	15.63	RIVULIS	DRAGON-LINE	23	FT	789		
790	1.25	1008.28	1.54	1.53	10.18	15.66	RIVULIS	DRAGON-LINE	23	FT	790		
791	1.25	1009.53	1.54	1.53	10.21	15.68	RIVULIS	DRAGON-LINE	23	FT	791		
792	1.25	1010.78	1.55	1.53	10.24	15.71	RIVULIS	DRAGON-LINE	23	FT	792		
793	1.25	1012.03	1.55	1.53	10.27	15.74	RIVULIS	DRAGON-LINE	23	FT	793		
794	1.25	1013.28	1.55	1.53	10.29	15.77	RIVULIS	DRAGON-LINE	23	FT	794		
795	1.25	1014.53	1.55	1.53	10.32	15.79	RIVULIS	DRAGON-LINE	23	FT	795		
796	1.25	1015.78	1.55	1.53	10.35	15.61	RIVULIS	DRAGON-LINE	23	FT	796		
797	1.25	1017.03	1.56	1.53	10.38	15.64	RIVULIS	DRAGON-LINE	23	FT	797		
798	1.25	1018.28	1.56	1.53	10.42	15.67	RIVULIS	DRAGON-LINE	23	FT	798		
799	1.25	1019.53	1.56	1.53	10.45	15.70	RIVULIS	DRAGON-LINE	23	FT	799		
800	1.25	1020.78	1.56	1.53	10.48	15.73	RIVULIS	DRAGON-LINE	23	FT	800		
801	1.25	1022.03	1.56	1.53	10.51	15.76	RIVULIS	DRAGON-LINE	23	FT	801		
802	1.25	1023.28	1.56	1.53	10.55	15.80	RIVULIS	DRAGON-LINE	23	FT	802		
803	1.25	1024.53	1.57	1.53	10.57	15.60	RIVULIS	DRAGON-LINE	23	FT	803		
804	1.25	1025.78	1.57	1.60	10.57	15.60	RIVULIS	DRAGON-LINE	24	FT	804		
805	1.25	1027.03	1.57	1.60	10.57	15.60	RIVULIS	DRAGON-LINE	24	FT	805		
806	1.25	1028.28	1.57	1.60	10.57	15.60	RIVULIS	DRAGON-LINE	24	FT	806		
807	1.25	1029.53	1.58	1.60	10.57	15.59	RIVULIS	DRAGON-LINE	24	FT	807		
TOWER 6	157.00	1032.60	PIPE ID CHANGES FROM 6.395 TO 5.369										
808	3.25	1032.78	1.58	1.60	10.56	15.59	RIVULIS	DRAGON-LINE	24	FT	808		
809	1.25	1034.03	1.58	1.60	10.56	15.59	RIVULIS	DRAGON-LINE	24	FT	809		

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE			SPRK NO.	REG SIZE	PLUG NO.
810	1.25	1035.28	1.58	1.60	10.56	15.59	RIVULIS	DRAGON-LINE	24 FT	810		
811	1.25	1036.53	1.58	1.60	10.56	15.59	RIVULIS	DRAGON-LINE	24 FT	811		
812	1.25	1037.78	1.59	1.60	10.56	15.59	RIVULIS	DRAGON-LINE	24 FT	812		
813	1.25	1039.03	1.59	1.60	10.56	15.59	RIVULIS	DRAGON-LINE	24 FT	813		
814	1.25	1040.28	1.59	1.60	10.56	15.59	RIVULIS	DRAGON-LINE	24 FT	814		
815	1.25	1041.53	1.59	1.60	10.56	15.59	RIVULIS	DRAGON-LINE	24 FT	815		
816	1.25	1042.78	1.59	1.60	10.56	15.58	RIVULIS	DRAGON-LINE	24 FT	816		
817	1.25	1044.03	1.60	1.60	10.56	15.58	RIVULIS	DRAGON-LINE	24 FT	817		
818	1.25	1045.28	1.60	1.60	10.56	15.58	RIVULIS	DRAGON-LINE	24 FT	818		
819	1.25	1046.53	1.60	1.60	10.56	15.58	RIVULIS	DRAGON-LINE	24 FT	819		
820	1.25	1047.78	1.60	1.60	10.56	15.58	RIVULIS	DRAGON-LINE	24 FT	820		
821	1.25	1049.03	1.60	1.60	10.56	15.58	RIVULIS	DRAGON-LINE	24 FT	821		
822	1.25	1050.28	1.61	1.60	10.56	15.58	RIVULIS	DRAGON-LINE	24 FT	822		
823	1.25	1051.53	1.61	1.60	10.56	15.58	RIVULIS	DRAGON-LINE	24 FT	823		
824	1.25	1052.78	1.61	1.60	10.56	15.58	RIVULIS	DRAGON-LINE	24 FT	824		
825	1.25	1054.03	1.61	1.60	10.56	15.58	RIVULIS	DRAGON-LINE	24 FT	825		
826	1.25	1055.28	1.61	1.60	10.56	15.57	RIVULIS	DRAGON-LINE	24 FT	826		
827	1.25	1056.53	1.62	1.60	10.56	15.57	RIVULIS	DRAGON-LINE	24 FT	827		
828	1.25	1057.78	1.62	1.60	10.56	15.57	RIVULIS	DRAGON-LINE	24 FT	828		
829	1.25	1059.03	1.62	1.60	10.56	15.57	RIVULIS	DRAGON-LINE	24 FT	829		
830	1.25	1060.28	1.62	1.60	10.56	15.57	RIVULIS	DRAGON-LINE	24 FT	830		
831	1.25	1061.53	1.62	1.60	10.56	15.57	RIVULIS	DRAGON-LINE	24 FT	831		
832	1.25	1062.78	1.62	1.60	10.56	15.57	RIVULIS	DRAGON-LINE	24 FT	832		
833	1.25	1064.03	1.63	1.60	10.56	15.57	RIVULIS	DRAGON-LINE	24 FT	833		
834	1.25	1065.28	1.63	1.60	10.56	15.57	RIVULIS	DRAGON-LINE	24 FT	834		
835	1.25	1066.53	1.63	1.60	10.56	15.57	RIVULIS	DRAGON-LINE	24 FT	835		
836	1.25	1067.78	1.63	1.60	10.56	15.57	RIVULIS	DRAGON-LINE	24 FT	836		
837	1.25	1069.03	1.63	1.67	10.56	15.56	RIVULIS	DRAGON-LINE	25 FT	837		
838	1.25	1070.28	1.64	1.67	10.56	15.56	RIVULIS	DRAGON-LINE	25 FT	838		
839	1.25	1071.53	1.64	1.67	10.56	15.56	RIVULIS	DRAGON-LINE	25 FT	839		
840	1.25	1072.78	1.64	1.67	10.56	15.56	RIVULIS	DRAGON-LINE	25 FT	840		
841	1.25	1074.03	1.64	1.67	10.56	15.56	RIVULIS	DRAGON-LINE	25 FT	841		
842	1.25	1075.28	1.65	1.67	10.56	15.56	RIVULIS	DRAGON-LINE	25 FT	842		
OVERHANG	44.87	1077.47										

TOTAL GPM = 700.42

GPA = 8.36

MINIMUM RECOMMENDED DRAGON-LINE® INLET PRESSURE IS 8.65 PSI

WITH GRADUATED ELEVATION OF 5.00 FT THE INLET PRESSURE IS 13.40 PSI FOR TAPE 842

THIS POSITION IS THE CLOSEST TO THE MINIMUM RECOMMENDED INLET PRESSURE

# HYDRAULICS SUMMARY

<u>TOWER NUMBER</u>	<u>ACRES UNDER SPAN</u>	<u>GPM NEED</u>	<u>ACTUAL GPM</u>	<u>PERCENT DEVIATION</u>	<u>GPM PER ACRE</u>	<u>AVERAGE IN. PER HR DELIVERED UNDER SPAN</u>	<u>AVERAGE IN. DELIVERED FOR REVOLUTION TIME</u>		
							<u>36 HR</u>	<u>48 HR</u>	<u>60 HR</u>
1	2.38	19.88	20.26	2%	8.52	0.019	0.68	0.90	1.13
2	7.00	58.52	58.68	0%	8.38	0.019	0.67	0.89	1.11
3	11.62	97.16	97.56	0%	8.40	0.019	0.67	0.89	1.11
4	16.24	135.80	136.32	0%	8.39	0.019	0.67	0.89	1.11
5	18.05	150.91	151.27	0%	8.38	0.019	0.67	0.89	1.11
6	21.61	180.64	180.61	0%	8.36	0.018	0.66	0.89	1.11
OVERHANG	6.83	57.09	55.72	-2%	8.16	0.018	0.65	0.87	1.08
TOTAL	83.73	700.00	700.42		8.37				

## SUMMARY OF SPRINKLERS

42 RIVULIS DRAGON-LINE 1 FT  
35 RIVULIS DRAGON-LINE 2 FT  
34 RIVULIS DRAGON-LINE 3 FT  
34 RIVULIS DRAGON-LINE 4 FT  
35 RIVULIS DRAGON-LINE 5 FT  
35 RIVULIS DRAGON-LINE 6 FT  
35 RIVULIS DRAGON-LINE 7 FT  
34 RIVULIS DRAGON-LINE 8 FT  
34 RIVULIS DRAGON-LINE 9 FT  
35 RIVULIS DRAGON-LINE 10 FT  
35 RIVULIS DRAGON-LINE 11 FT  
34 RIVULIS DRAGON-LINE 12 FT  
35 RIVULIS DRAGON-LINE 13 FT  
35 RIVULIS DRAGON-LINE 14 FT  
35 RIVULIS DRAGON-LINE 15 FT  
33 RIVULIS DRAGON-LINE 16 FT  
35 RIVULIS DRAGON-LINE 17 FT  
35 RIVULIS DRAGON-LINE 18 FT  
35 RIVULIS DRAGON-LINE 19 FT  
33 RIVULIS DRAGON-LINE 20 FT  
35 RIVULIS DRAGON-LINE 21 FT  
35 RIVULIS DRAGON-LINE 22 FT  
35 RIVULIS DRAGON-LINE 23 FT  
33 RIVULIS DRAGON-LINE 24 FT  
6 RIVULIS DRAGON-LINE 25 FT

**0 PLUGS**

## SUMMARY OF DRAGON-LINE®

RIVULIS DRAGON-LINE - 10501 FT

## NOZZLE POSITION CHART

RIVULIS DRAGON-LINE 1 FT	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42
RIVULIS DRAGON-LINE 2 FT	43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77
RIVULIS DRAGON-LINE 3 FT	78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111
RIVULIS DRAGON-LINE 4 FT	112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145
RIVULIS DRAGON-LINE 5 FT	146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180
RIVULIS DRAGON-LINE 6 FT	181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215
RIVULIS DRAGON-LINE 7 FT	216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250
RIVULIS DRAGON-LINE 8 FT	251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284
RIVULIS DRAGON-LINE 9 FT	285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318
RIVULIS DRAGON-LINE 10 FT	319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353
RIVULIS DRAGON-LINE 11 FT	354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388
RIVULIS DRAGON-LINE 12 FT	389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422
RIVULIS DRAGON-LINE 13 FT	423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457
RIVULIS DRAGON-LINE 14 FT	458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492
RIVULIS DRAGON-LINE 15 FT	493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527
RIVULIS DRAGON-LINE 16 FT	528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560
RIVULIS DRAGON-LINE 17 FT	561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595
RIVULIS DRAGON-LINE 18 FT	596, 597, 598, 599, 600



DRAGON-LINE LLC  
 100 SOUTH MAIN  
 ULYSSES, KANSAS 67880

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 WISH-119627  
 WALTHER FARMS

LINDSAY GEN II - 30  
 RIVULIS DRAGON-LINE®  
 NO REGULATORS  
 .75 I.D. FLEXIBLE HOSE  
 NO ENDGUN

Rotation time at 100% = 12.72 Hours Or 763 minutes

700 GPM @ 17 PSI

Installation Chart

Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg
1		1	1		61		61	2		121		121	4		47		180	5		107			240	7
2		2	1		62		62	2		122		122	4		48		181	6		108			241	7
3		3	1		63		63	2		123		123	4		49		182	6		109			242	7
4		4	1		64		64	2		124		124	4		50		183	6		110			243	7
5		5	1		65		65	2		125		125	4		51		184	6		111			244	7
6		6	1		66		66	2		126		126	4		52		185	6		112			245	7
7		7	1		67		67	2		127		127	4		53		186	6		113			246	7
8		8	1		68		68	2		128		128	4		54		187	6		114			247	7
9		9	1		69		69	2		129		129	4		55		188	6		115			248	7
10		10	1		70		70	2		130		130	4		56		189	6		116			249	7
11		11	1		71		71	2		131		131	4		57		190	6		117			250	7
12		12	1		72		72	2		132		132	4		58		191	6		118			251	8
13		13	1		73		73	2		133		133	4		59		192	6		119			252	8
14		14	1		74		74	2		TOWER 1					60		193	6		120			253	8
15		15	1		75		75	2		1		134	4		61		194	6		121			254	8
16		16	1		76		76	2		2		135	4		62		195	6		122			255	8
17		17	1		77		77	2		3		136	4		63		196	6		123			256	8
18		18	1		78		78	3		4		137	4		64		197	6		124			257	8
19		19	1		79		79	3		5		138	4		65		198	6		125			258	8
20		20	1		80		80	3		6		139	4		66		199	6		126			259	8
21		21	1		81		81	3		7		140	4		67		200	6		127			260	8
22		22	1		82		82	3		8		141	4		68		201	6		128			261	8
23		23	1		83		83	3		9		142	4		69		202	6		129			262	8
24		24	1		84		84	3		10		143	4		70		203	6		130			263	8
25		25	1		85		85	3		11		144	4		71		204	6		131			264	8
26		26	1		86		86	3		12		145	4		72		205	6		132			265	8
27		27	1		87		87	3		13		146	5		73		206	6		133			266	8
28		28	1		88		88	3		14		147	5		74		207	6		134			267	8
29		29	1		89		89	3		15		148	5		75		208	6		135			268	8
30		30	1		90		90	3		16		149	5		76		209	6		136			269	8
31		31	1		91		91	3		17		150	5		77		210	6		137			270	8
32		32	1		92		92	3		18		151	5		78		211	6		138			271	8
33		33	1		93		93	3		19		152	5		79		212	6		139			272	8
34		34	1		94		94	3		20		153	5		80		213	6		140			273	8
35		35	1		95		95	3		21		154	5		81		214	6		141			274	8
36		36	1		96		96	3		22		155	5		82		215	6		142			275	8
37		37	1		97		97	3		23		156	5		83		216	7		TOWER 2				
38		38	1		98		98	3		24		157	5		84		217	7		1			276	8
39		39	1		99		99	3		25		158	5		85		218	7		2			277	8
40		40	1		100		100	3		26		159	5		86		219	7		3			278	8
41		41	1		101		101	3		27		160	5		87		220	7		4			279	8
42		42	1		102		102	3		28		161	5		88		221	7		5			280	8
43		43	2		103		103	3		29		162	5		89		222	7		6			281	8
44		44	2		104		104	3		30		163	5		90		223	7		7			282	8
45		45	2		105		105	3		31		164	5		91		224	7		8			283	8
46		46	2		106		106	3		32		165	5		92		225	7		9			284	8
47		47	2		107		107	3		33		166	5		93		226	7		10			285	9
48		48	2		108		108	3		34		167	5		94		227	7		11			286	9
49		49	2		109		109	3		35		168	5		95		228	7		12			287	9
50		50	2		110		110	3		36		169	5		96		229	7		13			288	9
51		51	2		111		111	3		37		170	5		97		230	7		14			289	9
52		52	2		112		112	4		38		171	5		98		231	7		15			290	9
53		53	2		113		113	4		39		172	5		99		232	7		16			291	9
54		54	2		114		114	4		40		173	5		100		233	7		17			292	9
55		55	2		115		115	4		41		174	5		101		234	7		18			293	9
56		56	2		116		116	4		42		175	5		102		235	7		19			294	9
57		57	2		117		117	4		43		176	5		103		236	7		20			295	9
58		58	2		118		118	4		44		177	5		104		237	7		21			296	9
59		59	2		119		119	4		45		178	5		105		238	7		22			297	9
60		60	2		120		120	4		46		179	5		106		239	7		23			298	9

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Installation Chart
 Page 2

Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg
24		299	9		84		359	11		1		418	12		61		478	14		121			538	16
25		300	9		85		360	11		2		419	12		62		479	14		122			539	16
26		301	9		86		361	11		3		420	12		63		480	14		123			540	16
27		302	9		87		362	11		4		421	12		64		481	14		124			541	16
28		303	9		88		363	11		5		422	12		65		482	14		125			542	16
29		304	9		89		364	11		6		423	13		66		483	14		126			543	16
30		305	9		90		365	11		7		424	13		67		484	14		127			544	16
31		306	9		91		366	11		8		425	13		68		485	14		128			545	16
32		307	9		92		367	11		9		426	13		69		486	14		129			546	16
33		308	9		93		368	11		10		427	13		70		487	14		130			547	16
34		309	9		94		369	11		11		428	13		71		488	14		131			548	16
35		310	9		95		370	11		12		429	13		72		489	14		132			549	16
36		311	9		96		371	11		13		430	13		73		490	14		133			550	16
37		312	9		97		372	11		14		431	13		74		491	14		134			551	16
38		313	9		98		373	11		15		432	13		75		492	14		135			552	16
39		314	9		99		374	11		16		433	13		76		493	15		136			553	16
40		315	9		100		375	11		17		434	13		77		494	15		137			554	16
41		316	9		101		376	11		18		435	13		78		495	15		138			555	16
42		317	9		102		377	11		19		436	13		79		496	15		139			556	16
43		318	9		103		378	11		20		437	13		80		497	15		140			557	16
44		319	10		104		379	11		21		438	13		81		498	15		141			558	16
45		320	10		105		380	11		22		439	13		82		499	15		142			559	16
46		321	10		106		381	11		23		440	13		83		500	15		TOWER 4				
47		322	10		107		382	11		24		441	13		84		501	15		1			560	16
48		323	10		108		383	11		25		442	13		85		502	15		2			561	17
49		324	10		109		384	11		26		443	13		86		503	15		3			562	17
50		325	10		110		385	11		27		444	13		87		504	15		4			563	17
51		326	10		111		386	11		28		445	13		88		505	15		5			564	17
52		327	10		112		387	11		29		446	13		89		506	15		6			565	17
53		328	10		113		388	11		30		447	13		90		507	15		7			566	17
54		329	10		114		389	12		31		448	13		91		508	15		8			567	17
55		330	10		115		390	12		32		449	13		92		509	15		9			568	17
56		331	10		116		391	12		33		450	13		93		510	15		10			569	17
57		332	10		117		392	12		34		451	13		94		511	15		11			570	17
58		333	10		118		393	12		35		452	13		95		512	15		12			571	17
59		334	10		119		394	12		36		453	13		96		513	15		13			572	17
60		335	10		120		395	12		37		454	13		97		514	15		14			573	17
61		336	10		121		396	12		38		455	13		98		515	15		15			574	17
62		337	10		122		397	12		39		456	13		99		516	15		16			575	17
63		338	10		123		398	12		40		457	13		100		517	15		17			576	17
64		339	10		124		399	12		41		458	14		101		518	15		18			577	17
65		340	10		125		400	12		42		459	14		102		519	15		19			578	17
66		341	10		126		401	12		43		460	14		103		520	15		20			579	17
67		342	10		127		402	12		44		461	14		104		521	15		21			580	17
68		343	10		128		403	12		45		462	14		105		522	15		22			581	17
69		344	10		129		404	12		46		463	14		106		523	15		23			582	17
70		345	10		130		405	12		47		464	14		107		524	15		24			583	17
71		346	10		131		406	12		48		465	14		108		525	15		25			584	17
72		347	10		132		407	12		49		466	14		109		526	15		26			585	17
73		348	10		133		408	12		50		467	14		110		527	15		27			586	17
74		349	10		134		409	12		51		468	14		111		528	16		28			587	17
75		350	10		135		410	12		52		469	14		112		529	16		29			588	17
76		351	10		136		411	12		53		470	14		113		530	16		30			589	17
77		352	10		137		412	12		54		471	14		114		531	16		31			590	17
78		353	10		138		413	12		55		472	14		115		532	16		32			591	17
79		354	11		139		414	12		56		473	14		116		533	16		33			592	17
80		355	11		140		415	12		57		474	14		117		534	16		34			593	17
81		356	11		141		416	12		58		475	14		118		535	16		35			594	17
82		357	11		142		417	12		59		476	14		119		536	16		36			595	17
83		358	11		TOWER 3					60		477	14		120		537	16		37			596	18

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38		597	18		98		657	19		33		716	21		93		776	23		27		834	24	
39		598	18		99		658	19		34		717	21		94		777	23		28		835	24	
40		599	18		100		659	19		35		718	21		95		778	23		29		836	24	
41		600	18		101		660	19		36		719	21		96		779	23		30		837	25	
42		601	18		102		661	19		37		720	21		97		780	23		31		838	25	
43		602	18		103		662	19		38		721	21		98		781	23		32		839	25	
44		603	18		104		663	19		39		722	21		99		782	23		33		840	25	
45		604	18		105		664	19		40		723	21		100		783	23		34		841	25	
46		605	18		106		665	19		41		724	21		101		784	23		35		842	25	
47		606	18		107		666	20		42		725	21		102		785	23						
48		607	18		108		667	20		43		726	21		103		786	23						
49		608	18		109		668	20		44		727	21		104		787	23						
50		609	18		110		669	20		45		728	21		105		788	23						
51		610	18		111		670	20		46		729	21		106		789	23						
52		611	18		112		671	20		47		730	21		107		790	23						
53		612	18		113		672	20		48		731	21		108		791	23						
54		613	18		114		673	20		49		732	21		109		792	23						
55		614	18		115		674	20		50		733	21		110		793	23						
56		615	18		116		675	20		51		734	22		111		794	23						
57		616	18		117		676	20		52		735	22		112		795	23						
58		617	18		118		677	20		53		736	22		113		796	23						
59		618	18		119		678	20		54		737	22		114		797	23						
60		619	18		120		679	20		55		738	22		115		798	23						
61		620	18		121		680	20		56		739	22		116		799	23						
62		621	18		122		681	20		57		740	22		117		800	23						
63		622	18		123		682	20		58		741	22		118		801	23						
64		623	18		124		683	20		59		742	22		119		802	23						
65		624	18			TOWER 5				60		743	22		120		803	23						
66		625	18		1			684	20		61		744	22		121		804	24					
67		626	18		2			685	20		62		745	22		122		805	24					
68		627	18		3			686	20		63		746	22		123		806	24					
69		628	18		4		687	20		64		747	22		124		807	24						
70		629	18		5		688	20		65		748	22			TOWER 6								
71		630	18		6		689	20		66		749	22		1			808	24					
72		631	19		7		690	20		67		750	22		2			809	24					
73		632	19		8		691	20		68		751	22		3			810	24					
74		633	19		9		692	20		69		752	22		4		811	24						
75		634	19		10		693	20		70		753	22		5		812	24						
76		635	19		11		694	20		71		754	22		6		813	24						
77		636	19		12		695	20		72		755	22		7		814	24						
78		637	19		13		696	20		73		756	22		8		815	24						
79		638	19		14		697	20		74		757	22		9		816	24						
80		639	19		15		698	20		75		758	22		10		817	24						
81		640	19		16		699	21		76		759	22		11		818	24						
82		641	19		17		700	21		77		760	22		12		819	24						
83		642	19		18		701	21		78		761	22		13		820	24						
84		643	19		19		702	21		79		762	22		14		821	24						
85		644	19		20		703	21		80		763	22		15		822	24						
86		645	19		21		704	21		81		764	22		16		823	24						
87		646	19		22		705	21		82		765	22		17		824	24						
88		647	19		23		706	21		83		766	22		18		825	24						
89		648	19		24		707	21		84		767	22		19		826	24						
90		649	19		25		708	21		85		768	22		20		827	24						
91		650	19		26		709	21		86		769	23		21		828	24						
92		651	19		27		710	21		87		770	23		22		829	24						
93		652	19		28		711	21		88		771	23		23		830	24						
94		653	19		29		712	21		89		772	23		24		831	24						
95		654	19		30		713	21		90		773	23		25		832	24						
96		655	19		31		714	21		91		774	23		26		833	24						
97		656	19		32		715	21		92		775	23											

PRECIPITATION CHART FOR FULL CIRCLE

WISH-119627

SEPTEMBER 29, 2025

DEALER - DRAGON-LINE LLC

IRRIGATOR - WALTHER FARMS

TOTAL LENGTH PIPE = 1077.47    SYSTEM PRESSURE = 17 PSI  
GPM UNDER PIPE = 700.42    TOTAL GPM = 700.42  
ACRES UNDER PIPE = 83.73  
RANGE OF ENDGUN = .00  
GPM OF ENDGUN = .00  
ACRES UNDER ENDGUN = .00

MOTOR SIZE (HP) = 3/4  
LOADED MOTOR RPM = 1750  
CENTER GEAR BOX RATIO = 40  
WHEEL GEAR BOX RATIO = 50  
TIRE SIZE = 11 X 22.5  
LAST TOWER SPEED (FPM) = 8.50

**PRECIPITATION BASED**

**% TIMER BASED**

PRECIPITATION INCHES	% TIMER SETTING	TIME HOURS	% TIMER SETTING	PRECIPITATION INCHES	TIME HOURS
.24	100.00	12.72 - 763(min)	100.00	.24	12.72 - 763(min)
.25	94.06	13.53	90.00	.26	14.14
.30	78.38	16.23	80.00	.29	15.90
.40	58.79	21.64	70.00	.34	18.17
.50	47.03	27.05	60.00	.39	21.20
.60	39.19	32.46	50.00	.47	25.44
.70	33.59	37.87	45.00	.52	28.27
.75	31.35	40.58	40.00	.59	31.80
.80	29.39	43.28	35.00	.67	36.35
.90	26.13	48.69	30.00	.78	42.41
1.00	23.51	54.10	25.00	.94	50.89
1.25	18.81	67.63	20.00	1.18	63.61
1.50	15.68	81.15	15.00	1.57	84.81
1.75	13.44	94.68	10.00	2.35	127.22
2.00	11.76	108.20	5.00	4.70	254.43

CAUTION: The relationship between precipitation rate, timer setting, and hours per revolution provided above are theoretical numbers based on the data list at the top of the page. Actual precipitation rates may vary due to the following field and machine conditions: wind drift; evaporation; tire slippage, tire loaded radius; drive train efficiency; elevation changes; soil type. Due to these varying field and machine conditions the above chart should be used as a guide only.