

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : DN135B D165 1XLED10S\_830.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] LVE2568600  
 [TESTLAB]  
 [MANUFAC] PHILIPS  
 [LUMCAT]  
 [LUMINAIRE] DN135B D165 LED10S/830 NO  
 [LAMP] LED10S/830  
 [BALLAST] -  
 [ISSUEDATE] 2015-10-19  
 [OTHER] B-Angle = 0.00 B-Tilt = 0.00 2019-06-21

### CHARACTERISTICS

Lumens Per Lamp	1000 (1 lamp)
Total Lamp Lumens	1000
Luminaire Lumens	1000
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.15 m (Diameter)
Luminous Width (90-270)	0.15 m (Diameter)
Luminous Height	0.00 m

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19965	19914	19785
55	19400	19336	19157
65	18435	18392	18120
75	16865	16888	16468
85	14307	14238	13196

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**CANDELA TABULATION**

	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>7.5</u>	<u>10.0</u>	<u>12.5</u>	<u>15.0</u>	<u>17.5</u>	<u>20.0</u>	<u>22.5</u>
<b>0.0</b>	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13
<b>2.5</b>	342.93	342.93	342.93	342.93	342.93	342.93	342.93	342.93	342.93	342.93
<b>5.0</b>	341.93	341.93	341.93	341.93	341.93	341.93	341.93	341.93	341.93	341.93
<b>7.5</b>	340.23	340.23	340.23	340.23	340.23	340.23	340.23	340.23	340.13	340.13
<b>10.0</b>	337.83	337.83	337.93	337.93	337.93	337.93	337.93	337.93	337.93	337.93
<b>12.5</b>	334.73	334.73	334.73	334.73	334.73	334.73	334.73	334.73	334.73	334.73
<b>15.0</b>	330.83	330.83	330.83	330.83	330.83	330.83	330.73	330.73	330.73	330.83
<b>17.5</b>	326.13	326.13	326.13	326.13	326.13	326.13	326.13	326.13	326.13	326.13
<b>20.0</b>	320.93	320.93	320.93	320.93	320.93	320.93	320.83	320.83	320.83	320.83
<b>22.5</b>	315.03	315.03	315.03	315.03	315.03	314.93	314.93	314.93	314.93	314.93
<b>25.0</b>	308.43	308.43	308.43	308.43	308.33	308.33	308.43	308.33	308.33	308.23
<b>27.5</b>	301.13	301.13	301.03	301.03	301.03	300.93	300.93	300.93	300.93	300.93
<b>30.0</b>	293.23	293.23	293.23	293.13	293.23	293.13	293.03	293.03	292.93	292.93
<b>32.5</b>	284.63	284.53	284.53	284.53	284.53	284.53	284.43	284.43	284.33	284.33
<b>35.0</b>	275.43	275.43	275.43	275.43	275.43	275.43	275.33	275.33	275.23	275.23
<b>37.5</b>	265.53	265.53	265.53	265.53	265.53	265.53	265.53	265.53	265.53	265.43
<b>40.0</b>	255.23	255.23	255.23	255.23	255.13	255.13	255.13	255.13	255.13	255.03
<b>42.5</b>	244.42	244.52	244.42	244.52	244.52	244.42	244.42	244.42	244.42	244.32
<b>45.0</b>	233.22	233.22	233.22	233.22	233.22	233.22	233.12	233.12	233.12	233.02
<b>47.5</b>	221.62	221.62	221.62	221.52	221.52	221.52	221.52	221.42	221.42	221.42
<b>50.0</b>	209.22	209.22	209.22	209.22	209.22	209.22	209.22	209.22	209.12	209.12
<b>52.5</b>	196.72	196.72	196.72	196.72	196.72	196.62	196.62	196.62	196.62	196.52
<b>55.0</b>	183.82	183.82	183.72	183.72	183.72	183.72	183.72	183.72	183.62	183.62
<b>57.5</b>	170.42	170.42	170.42	170.42	170.42	170.42	170.42	170.42	170.42	170.42
<b>60.0</b>	156.82	156.82	156.82	156.82	156.82	156.82	156.82	156.82	156.72	156.72
<b>62.5</b>	142.91	142.91	143.01	143.01	143.01	143.01	143.01	143.01	142.91	142.91
<b>65.0</b>	128.71	128.71	128.71	128.71	128.71	128.81	128.81	128.81	128.81	128.71
<b>67.5</b>	114.51	114.51	114.51	114.51	114.61	114.61	114.61	114.61	114.61	114.61
<b>70.0</b>	100.41	100.51	100.51	100.51	100.61	100.61	100.61	100.61	100.61	100.61
<b>72.5</b>	86.21	86.21	86.31	86.31	86.41	86.41	86.41	86.41	86.41	86.51
<b>75.0</b>	72.11	72.21	72.21	72.21	72.31	72.31	72.31	72.31	72.41	72.41
<b>77.5</b>	58.41	58.51	58.51	58.61	58.61	58.71	58.71	58.71	58.71	58.81
<b>80.0</b>	45.30	45.30	45.30	45.40	45.40	45.40	45.50	45.50	45.50	45.50
<b>82.5</b>	32.60	32.70	32.70	32.70	32.80	32.80	32.80	32.80	32.80	32.80
<b>85.0</b>	20.60	20.60	20.60	20.60	20.70	20.70	20.70	20.70	20.70	20.70
<b>87.5</b>	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.30	9.20
<b>90.0</b>	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.70	0.70

**Vert.  
Angles**

**Horizontal Angles**

	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
<b>0.0</b>	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13
<b>2.5</b>	342.93	342.93	342.93	342.93	342.93	342.93	342.93	342.93	342.93	342.93
<b>5.0</b>	341.93	341.93	341.93	341.93	341.93	341.93	341.93	341.93	341.93	341.83
<b>7.5</b>	340.13	340.23	340.23	340.23	340.23	340.23	340.13	340.13	340.13	340.13
<b>10.0</b>	337.93	337.93	337.93	337.83	337.83	337.83	337.83	337.83	337.83	337.73
<b>12.5</b>	334.73	334.73	334.73	334.73	334.63	334.63	334.63	334.53	334.53	334.43
<b>15.0</b>	330.73	330.73	330.73	330.73	330.63	330.63	330.63	330.53	330.53	330.53
<b>17.5</b>	326.13	326.13	326.03	326.03	326.03	326.03	325.93	325.93	325.83	325.83
<b>20.0</b>	320.83	320.83	320.83	320.83	320.73	320.73	320.63	320.63	320.53	320.53
<b>22.5</b>	314.93	314.93	314.83	314.83	314.73	314.73	314.73	314.73	314.63	314.53
<b>25.0</b>	308.13	308.13	308.03	308.03	308.03	307.93	307.93	307.93	307.93	307.83
<b>27.5</b>	300.93	300.83	300.83	300.73	300.73	300.63	300.63	300.53	300.53	300.43
<b>30.0</b>	292.93	292.93	292.93	292.83	292.83	292.73	292.63	292.63	292.63	292.53
<b>32.5</b>	284.33	284.33	284.33	284.33	284.23	284.13	284.13	284.03	283.93	283.93
<b>35.0</b>	275.23	275.13	275.13	275.13	275.13	275.03	274.93	274.83	274.83	274.73
<b>37.5</b>	265.43	265.43	265.33	265.33	265.23	265.13	265.03	264.93	264.93	264.93
<b>40.0</b>	255.03	254.93	254.93	254.83	254.83	254.73	254.73	254.63	254.63	254.53

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**CANDELA TABULATION - (Cont.)**

42.5	244.32	244.32	244.22	244.12	244.12	244.02	243.92	243.92	243.92	243.82
45.0	233.02	232.92	232.92	232.82	232.72	232.72	232.72	232.62	232.62	232.52
47.5	221.42	221.42	221.32	221.22	221.22	221.12	221.02	221.02	220.92	220.92
50.0	209.12	209.12	209.12	209.02	208.92	208.92	208.82	208.72	208.72	208.62
52.5	196.52	196.52	196.42	196.32	196.32	196.22	196.22	196.22	196.12	196.02
55.0	183.62	183.52	183.52	183.42	183.42	183.32	183.32	183.22	183.22	183.12
57.5	170.42	170.32	170.32	170.22	170.22	170.12	170.12	170.02	169.92	169.92
60.0	156.72	156.72	156.62	156.62	156.52	156.52	156.42	156.42	156.32	156.22
62.5	142.91	142.91	142.81	142.81	142.71	142.71	142.61	142.61	142.51	142.41
65.0	128.71	128.71	128.61	128.61	128.61	128.61	128.51	128.51	128.41	128.31
67.5	114.61	114.51	114.51	114.41	114.41	114.41	114.31	114.21	114.21	114.11
70.0	100.61	100.61	100.61	100.61	100.51	100.51	100.41	100.41	100.31	100.21
72.5	86.51	86.51	86.51	86.41	86.41	86.41	86.31	86.31	86.21	86.21
75.0	72.41	72.41	72.41	72.41	72.41	72.31	72.31	72.31	72.21	72.21
77.5	58.81	58.81	58.81	58.81	58.71	58.71	58.71	58.71	58.61	58.61
80.0	45.50	45.50	45.50	45.50	45.50	45.50	45.50	45.40	45.40	45.30
82.5	32.80	32.80	32.80	32.80	32.80	32.80	32.80	32.70	32.70	32.60
85.0	20.70	20.70	20.70	20.70	20.70	20.60	20.60	20.60	20.50	20.50
87.5	9.10	9.10	9.00	9.00	8.90	8.90	8.70	8.60	8.50	8.50
90.0	0.70	0.70	0.70	0.60	0.60	0.50	0.40	0.40	0.30	0.30

**Vert. Angles**      **Horizontal Angles**

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13
2.5	342.93	342.93	342.93	342.93	342.93	342.93	342.93	342.93	342.93	342.93
5.0	341.83	341.83	341.83	341.83	341.73	341.73	341.73	341.73	341.83	341.83
7.5	340.13	340.13	340.13	340.03	340.03	340.03	340.03	340.03	340.03	340.03
10.0	337.73	337.73	337.73	337.63	337.63	337.63	337.53	337.53	337.53	337.43
12.5	334.43	334.43	334.33	334.33	334.23	334.23	334.23	334.13	334.13	334.13
15.0	330.43	330.43	330.43	330.43	330.43	330.43	330.33	330.33	330.23	330.23
17.5	325.83	325.83	325.73	325.73	325.63	325.63	325.53	325.53	325.53	325.53
20.0	320.53	320.43	320.43	320.33	320.33	320.23	320.23	320.23	320.13	320.13
22.5	314.53	314.53	314.43	314.33	314.33	314.33	314.33	314.23	314.13	314.13
25.0	307.83	307.73	307.73	307.63	307.63	307.53	307.43	307.43	307.33	307.33
27.5	300.43	300.43	300.33	300.23	300.23	300.13	300.03	300.03	299.93	299.83
30.0	292.43	292.43	292.33	292.33	292.23	292.13	292.13	292.03	291.93	291.83
32.5	283.83	283.73	283.73	283.73	283.63	283.53	283.43	283.43	283.33	283.23
35.0	274.63	274.53	274.53	274.53	274.43	274.33	274.23	274.13	274.03	274.03
37.5	264.83	264.73	264.73	264.63	264.63	264.53	264.53	264.43	264.43	264.33
40.0	254.43	254.43	254.33	254.23	254.13	254.13	254.03	254.03	253.93	253.83
42.5	243.72	243.62	243.52	243.52	243.42	243.42	243.32	243.22	243.12	243.02
45.0	232.42	232.32	232.22	232.12	232.12	232.02	231.92	231.92	231.82	231.72
47.5	220.92	220.82	220.72	220.62	220.52	220.42	220.42	220.32	220.22	220.12
50.0	208.62	208.52	208.42	208.32	208.22	208.12	208.02	208.02	207.92	207.82
52.5	195.92	195.92	195.82	195.72	195.62	195.62	195.52	195.42	195.32	195.22
55.0	183.02	182.92	182.82	182.82	182.72	182.62	182.52	182.42	182.32	182.32
57.5	169.82	169.72	169.62	169.52	169.42	169.42	169.22	169.12	169.02	168.92
60.0	156.22	156.12	156.02	155.92	155.82	155.72	155.62	155.52	155.42	155.42
62.5	142.41	142.31	142.11	142.11	142.01	141.91	141.81	141.71	141.51	141.41
65.0	128.21	128.11	128.11	128.01	127.91	127.81	127.71	127.61	127.51	127.41
67.5	114.11	114.01	113.91	113.81	113.71	113.61	113.61	113.41	113.31	113.21
70.0	100.21	100.11	100.11	100.01	99.91	99.81	99.61	99.61	99.51	99.41
72.5	86.21	86.11	86.01	85.91	85.81	85.71	85.61	85.61	85.41	85.31
75.0	72.21	72.11	72.01	71.91	71.81	71.71	71.71	71.61	71.41	71.31
77.5	58.51	58.41	58.41	58.31	58.21	58.11	58.01	57.91	57.81	57.71
80.0	45.30	45.20	45.20	45.10	45.00	44.90	44.80	44.70	44.60	44.50
82.5	32.60	32.50	32.50	32.40	32.30	32.20	32.10	32.00	31.90	31.80
85.0	20.40	20.40	20.30	20.20	20.10	20.10	20.00	19.90	19.80	19.70
87.5	8.50	8.50	8.60	8.60	8.60	8.50	8.40	8.40	8.30	8.30

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CANDELA TABULATION - (Cont.)

90.0	0.30	0.30	0.40	0.40	0.50	0.50	0.50	0.40	0.40	0.40
Vert. Angles	Horizontal Angles									
	<u>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>	<u>92.5</u>	<u>95.0</u>	<u>97.5</u>
0.0	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13
2.5	342.93	342.93	342.93	342.93	342.93	342.93	342.83	342.83	342.83	342.83
5.0	341.83	341.83	341.83	341.73	341.73	341.73	341.73	341.73	341.63	341.63
7.5	340.03	340.03	340.03	340.03	339.93	339.93	339.93	339.83	339.83	339.83
10.0	337.43	337.43	337.43	337.43	337.43	337.33	337.33	337.33	337.33	337.23
12.5	334.13	334.13	334.13	334.13	334.13	334.03	334.03	333.93	333.93	333.93
15.0	330.13	330.13	330.03	330.03	329.93	329.93	329.93	329.93	329.93	329.83
17.5	325.53	325.43	325.43	325.33	325.33	325.33	325.23	325.23	325.13	325.13
20.0	320.13	320.03	320.03	319.93	319.83	319.83	319.73	319.73	319.63	319.63
22.5	314.03	313.93	313.93	313.83	313.83	313.83	313.73	313.73	313.63	313.63
25.0	307.33	307.23	307.13	307.03	307.03	306.93	306.83	306.83	306.83	306.73
27.5	299.83	299.83	299.73	299.63	299.63	299.53	299.43	299.33	299.33	299.33
30.0	291.83	291.83	291.73	291.73	291.63	291.53	291.43	291.43	291.23	291.23
32.5	283.13	283.13	283.13	283.03	282.93	282.83	282.73	282.63	282.63	282.53
35.0	274.03	273.93	273.83	273.73	273.63	273.53	273.53	273.53	273.43	273.33
37.5	264.23	264.13	264.03	263.93	263.93	263.83	263.83	263.73	263.63	263.53
40.0	253.73	253.63	253.63	253.53	253.53	253.33	253.23	253.13	253.13	253.13
42.5	242.92	242.92	242.82	242.72	242.62	242.52	242.42	242.42	242.32	242.22
45.0	231.62	231.62	231.52	231.42	231.32	231.22	231.12	231.12	230.92	230.82
47.5	220.02	219.92	219.92	219.82	219.72	219.62	219.42	219.32	219.32	219.22
50.0	207.72	207.62	207.52	207.42	207.42	207.32	207.22	207.12	207.02	206.92
52.5	195.12	195.02	194.92	194.82	194.72	194.62	194.52	194.42	194.32	194.22
55.0	182.22	182.02	181.92	181.82	181.72	181.62	181.52	181.42	181.32	181.12
57.5	168.82	168.72	168.62	168.42	168.32	168.32	168.22	168.02	167.92	167.82
60.0	155.22	155.12	155.02	154.92	154.82	154.72	154.52	154.42	154.32	154.22
62.5	141.41	141.21	141.11	141.01	140.91	140.81	140.61	140.51	140.41	140.31
65.0	127.31	127.11	127.01	126.91	126.81	126.71	126.51	126.41	126.31	126.11
67.5	113.01	113.01	112.81	112.71	112.51	112.41	112.31	112.11	112.01	111.91
70.0	99.21	99.11	99.01	98.81	98.71	98.51	98.41	98.31	98.11	97.91
72.5	85.11	85.11	84.91	84.71	84.61	84.51	84.31	84.21	84.01	83.91
75.0	71.21	71.11	70.91	70.81	70.61	70.61	70.41	70.21	70.11	69.91
77.5	57.61	57.51	57.31	57.21	57.11	56.91	56.81	56.61	56.51	56.31
80.0	44.40	44.30	44.20	44.00	43.90	43.80	43.60	43.50	43.30	43.20
82.5	31.70	31.60	31.50	31.40	31.30	31.10	31.00	30.90	30.70	30.60
85.0	19.60	19.50	19.40	19.30	19.20	19.10	19.00	18.90	18.70	18.60
87.5	8.30	8.40	8.30	8.20	8.10	8.10	8.00	7.90	7.80	7.70
90.0	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30

Vert. Angles	Horizontal Angles									
	<u>100.0</u>	<u>102.5</u>	<u>105.0</u>	<u>107.5</u>	<u>110.0</u>	<u>112.5</u>	<u>115.0</u>	<u>117.5</u>	<u>120.0</u>	<u>122.5</u>
0.0	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13
2.5	342.83	342.83	342.83	342.83	342.83	342.83	342.83	342.83	342.83	342.83
5.0	341.63	341.63	341.63	341.63	341.63	341.63	341.63	341.63	341.63	341.53
7.5	339.83	339.73	339.73	339.73	339.73	339.73	339.73	339.73	339.63	339.63
10.0	337.23	337.23	337.13	337.13	337.13	337.03	337.03	337.03	337.03	337.03
12.5	333.83	333.83	333.73	333.73	333.73	333.63	333.63	333.63	333.63	333.63
15.0	329.83	329.83	329.73	329.73	329.73	329.63	329.63	329.53	329.53	329.53
17.5	325.03	325.03	325.03	325.03	324.93	324.93	324.83	324.83	324.73	324.73
20.0	319.63	319.63	319.53	319.53	319.53	319.43	319.43	319.33	319.23	319.13
22.5	313.53	313.53	313.43	313.33	313.33	313.33	313.33	313.33	313.23	313.23
25.0	306.63	306.63	306.53	306.43	306.43	306.33	306.33	306.33	306.33	306.23
27.5	299.23	299.23	299.13	299.03	299.03	298.93	298.93	298.83	298.83	298.83
30.0	291.23	291.13	291.03	291.03	290.93	290.83	290.83	290.73	290.63	290.63
32.5	282.53	282.43	282.33	282.33	282.23	282.13	282.13	282.13	282.03	281.93

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

35.0	273.23	273.13	273.03	273.03	273.03	272.83	272.83	272.73	272.73	272.63
37.5	263.43	263.33	263.33	263.23	263.13	263.13	262.93	262.93	262.83	262.83
40.0	253.03	252.83	252.83	252.73	252.63	252.63	252.53	252.53	252.43	252.33
42.5	242.12	242.02	241.92	241.92	241.82	241.72	241.72	241.62	241.52	241.42
45.0	230.72	230.62	230.62	230.52	230.42	230.32	230.22	230.22	230.12	230.12
47.5	219.12	219.02	218.92	218.82	218.82	218.72	218.62	218.52	218.42	218.32
50.0	206.82	206.62	206.52	206.42	206.42	206.32	206.22	206.12	206.02	205.92
52.5	194.12	194.02	193.92	193.82	193.72	193.62	193.52	193.42	193.32	193.22
55.0	181.12	181.02	180.92	180.82	180.62	180.62	180.52	180.42	180.22	180.12
57.5	167.72	167.62	167.42	167.32	167.22	167.12	167.12	166.92	166.82	166.72
60.0	154.02	153.92	153.82	153.72	153.62	153.42	153.32	153.22	153.12	153.02
62.5	140.11	140.01	139.91	139.81	139.71	139.51	139.31	139.21	139.11	139.01
65.0	125.91	125.81	125.71	125.61	125.41	125.31	125.21	125.11	125.01	124.81
67.5	111.71	111.61	111.41	111.41	111.21	111.01	110.91	110.81	110.71	110.51
70.0	97.81	97.71	97.51	97.41	97.21	97.11	96.91	96.81	96.71	96.51
72.5	83.81	83.61	83.41	83.31	83.11	83.01	82.91	82.71	82.61	82.41
75.0	69.71	69.61	69.51	69.31	69.11	69.01	68.91	68.71	68.61	68.41
77.5	56.21	56.01	55.91	55.71	55.51	55.41	55.21	55.11	54.91	54.81
80.0	43.00	42.90	42.70	42.60	42.40	42.30	42.10	42.00	41.80	41.70
82.5	30.50	30.30	30.20	30.00	29.90	29.80	29.60	29.50	29.40	29.20
85.0	18.50	18.40	18.30	18.10	18.00	17.90	17.80	17.70	17.50	17.40
87.5	7.60	7.50	7.40	7.30	7.10	6.90	6.80	6.70	6.60	6.50
90.0	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30

**Vert.  
Angles**

**Horizontal Angles**

	<u>125.0</u>	<u>127.5</u>	<u>130.0</u>	<u>132.5</u>	<u>135.0</u>	<u>137.5</u>	<u>140.0</u>	<u>142.5</u>	<u>145.0</u>	<u>147.5</u>
0.0	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13
2.5	342.83	342.83	342.83	342.83	342.83	342.83	342.83	342.83	342.83	342.83
5.0	341.53	341.53	341.53	341.53	341.53	341.53	341.53	341.53	341.53	341.53
7.5	339.63	339.63	339.63	339.63	339.53	339.53	339.53	339.53	339.53	339.53
10.0	337.03	336.93	336.93	336.93	336.93	336.93	336.93	336.93	336.93	336.93
12.5	333.63	333.63	333.63	333.63	333.63	333.53	333.53	333.53	333.53	333.53
15.0	329.43	329.43	329.43	329.43	329.43	329.43	329.43	329.43	329.43	329.43
17.5	324.63	324.63	324.63	324.63	324.53	324.53	324.53	324.53	324.53	324.53
20.0	319.13	319.13	319.13	319.13	319.13	319.03	319.03	319.03	319.03	319.03
22.5	313.13	313.13	313.13	313.03	313.03	312.93	312.93	312.93	312.83	312.83
25.0	306.23	306.13	306.13	306.03	306.03	305.93	305.93	305.93	305.93	305.83
27.5	298.83	298.73	298.63	298.63	298.53	298.53	298.53	298.43	298.43	298.33
30.0	290.63	290.63	290.53	290.53	290.53	290.43	290.43	290.33	290.33	290.23
32.5	281.93	281.83	281.83	281.73	281.73	281.63	281.63	281.53	281.53	281.53
35.0	272.53	272.53	272.53	272.53	272.43	272.43	272.33	272.33	272.23	272.23
37.5	262.73	262.63	262.63	262.53	262.43	262.43	262.33	262.33	262.33	262.33
40.0	252.33	252.23	252.13	252.13	252.03	251.93	251.93	251.93	251.83	251.83
42.5	241.32	241.32	241.32	241.22	241.22	241.12	241.02	241.02	240.92	240.92
45.0	230.02	229.92	229.92	229.82	229.72	229.72	229.62	229.52	229.52	229.42
47.5	218.22	218.22	218.22	218.12	218.12	218.02	218.02	217.92	217.92	217.92
50.0	205.92	205.82	205.82	205.72	205.72	205.62	205.52	205.52	205.42	205.42
52.5	193.12	193.12	193.02	192.92	192.92	192.82	192.82	192.72	192.62	192.62
55.0	180.12	180.02	179.92	179.82	179.82	179.72	179.62	179.62	179.62	179.62
57.5	166.62	166.62	166.52	166.42	166.42	166.32	166.22	166.12	166.12	166.12
60.0	152.92	152.82	152.82	152.72	152.62	152.52	152.42	152.32	152.32	152.22
62.5	138.91	138.81	138.81	138.71	138.61	138.51	138.41	138.31	138.31	138.31
65.0	124.81	124.61	124.61	124.41	124.31	124.31	124.21	124.21	124.11	124.01
67.5	110.41	110.31	110.21	110.11	110.01	109.91	109.81	109.81	109.71	109.71
70.0	96.41	96.31	96.21	96.11	96.01	95.91	95.81	95.81	95.71	95.61
72.5	82.31	82.21	82.01	81.91	81.81	81.81	81.71	81.61	81.51	81.51
75.0	68.31	68.21	68.01	67.91	67.91	67.71	67.61	67.61	67.51	67.41
77.5	54.71	54.51	54.41	54.31	54.21	54.11	54.01	54.01	53.91	53.81
80.0	41.60	41.50	41.30	41.20	41.10	41.00	41.00	40.90	40.80	40.80

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>82.5</b>	29.10	29.00	28.90	28.80	28.70	28.60	28.50	28.50	28.40	28.40
<b>85.0</b>	17.30	17.20	17.10	17.00	17.00	16.90	16.90	16.80	16.70	16.70
<b>87.5</b>	6.40	6.30	6.20	6.10	6.10	6.10	6.00	6.00	6.10	6.10
<b>90.0</b>	0.30	0.20	0.20	0.20	0.20	0.30	0.30	0.20	0.20	0.30

**Vert. Angles      Horizontal Angles**

	<b><u>150.0</u></b>	<b><u>152.5</u></b>	<b><u>155.0</u></b>	<b><u>157.5</u></b>	<b><u>160.0</u></b>	<b><u>162.5</u></b>	<b><u>165.0</u></b>	<b><u>167.5</u></b>	<b><u>170.0</u></b>	<b><u>172.5</u></b>
<b>0.0</b>	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13
<b>2.5</b>	342.83	342.83	342.83	342.83	342.83	342.83	342.83	342.83	342.73	342.73
<b>5.0</b>	341.53	341.53	341.53	341.53	341.53	341.53	341.43	341.53	341.53	341.53
<b>7.5</b>	339.53	339.53	339.53	339.53	339.53	339.53	339.53	339.53	339.53	339.53
<b>10.0</b>	336.93	336.93	336.93	336.93	336.93	336.93	336.93	336.93	336.93	336.93
<b>12.5</b>	333.43	333.43	333.43	333.43	333.43	333.43	333.43	333.43	333.43	333.43
<b>15.0</b>	329.43	329.33	329.33	329.33	329.33	329.33	329.33	329.43	329.43	329.43
<b>17.5</b>	324.53	324.53	324.53	324.43	324.43	324.43	324.43	324.43	324.43	324.43
<b>20.0</b>	319.03	319.03	318.93	319.03	318.93	318.93	318.93	318.93	318.93	318.93
<b>22.5</b>	312.83	312.73	312.73	312.73	312.73	312.73	312.73	312.73	312.73	312.73
<b>25.0</b>	305.83	305.83	305.83	305.83	305.73	305.73	305.73	305.73	305.83	305.73
<b>27.5</b>	298.33	298.33	298.33	298.33	298.33	298.23	298.23	298.33	298.23	298.23
<b>30.0</b>	290.23	290.23	290.23	290.23	290.13	290.13	290.13	290.23	290.13	290.13
<b>32.5</b>	281.53	281.53	281.43	281.43	281.43	281.53	281.53	281.53	281.53	281.43
<b>35.0</b>	272.13	272.13	272.13	272.13	272.13	272.13	272.13	272.13	272.13	272.13
<b>37.5</b>	262.33	262.33	262.33	262.33	262.23	262.23	262.23	262.23	262.23	262.23
<b>40.0</b>	251.83	251.73	251.73	251.73	251.63	251.63	251.63	251.63	251.63	251.63
<b>42.5</b>	240.92	240.82	240.82	240.82	240.82	240.82	240.82	240.72	240.72	240.72
<b>45.0</b>	229.42	229.42	229.42	229.42	229.42	229.42	229.42	229.42	229.42	229.32
<b>47.5</b>	217.82	217.82	217.72	217.62	217.62	217.62	217.62	217.62	217.62	217.62
<b>50.0</b>	205.42	205.42	205.32	205.32	205.22	205.22	205.22	205.22	205.22	205.22
<b>52.5</b>	192.52	192.52	192.42	192.42	192.42	192.42	192.42	192.42	192.42	192.42
<b>55.0</b>	179.52	179.42	179.42	179.42	179.42	179.32	179.32	179.32	179.32	179.32
<b>57.5</b>	166.02	166.02	166.02	165.92	165.92	165.92	165.92	165.92	165.92	165.92
<b>60.0</b>	152.22	152.22	152.22	152.22	152.22	152.12	152.12	152.12	152.22	152.22
<b>62.5</b>	138.21	138.21	138.11	138.11	138.11	138.11	138.11	138.11	138.11	138.11
<b>65.0</b>	124.01	123.91	123.91	123.81	123.81	123.81	123.81	123.81	123.81	123.81
<b>67.5</b>	109.61	109.61	109.51	109.51	109.51	109.51	109.51	109.51	109.51	109.51
<b>70.0</b>	95.61	95.61	95.51	95.51	95.51	95.51	95.51	95.51	95.51	95.61
<b>72.5</b>	81.41	81.41	81.31	81.31	81.31	81.31	81.31	81.31	81.41	81.41
<b>75.0</b>	67.41	67.31	67.31	67.31	67.31	67.31	67.31	67.31	67.31	67.41
<b>77.5</b>	53.81	53.81	53.71	53.71	53.71	53.71	53.71	53.81	53.81	53.81
<b>80.0</b>	40.70	40.70	40.70	40.70	40.70	40.70	40.70	40.70	40.70	40.80
<b>82.5</b>	28.30	28.30	28.30	28.30	28.30	28.30	28.30	28.30	28.30	28.40
<b>85.0</b>	16.70	16.60	16.60	16.60	16.60	16.60	16.60	16.60	16.60	16.60
<b>87.5</b>	6.10	6.00	6.00	6.00	6.00	6.00	6.10	6.20	6.20	6.20
<b>90.0</b>	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30

**Vert. Angles      Horizontal Angles**

	<b><u>175.0</u></b>	<b><u>177.5</u></b>	<b><u>180.0</u></b>	<b><u>182.5</u></b>	<b><u>185.0</u></b>	<b><u>187.5</u></b>	<b><u>190.0</u></b>	<b><u>192.5</u></b>	<b><u>195.0</u></b>	<b><u>197.5</u></b>
<b>0.0</b>	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13
<b>2.5</b>	342.73	342.73	342.73	342.73	342.73	342.73	342.73	342.73	342.73	342.73
<b>5.0</b>	341.53	341.53	341.53	341.53	341.53	341.53	341.43	341.43	341.43	341.43
<b>7.5</b>	339.53	339.53	339.53	339.53	339.53	339.53	339.53	339.53	339.53	339.53
<b>10.0</b>	336.93	336.93	336.83	336.93	336.93	336.93	336.93	336.93	336.93	336.93
<b>12.5</b>	333.43	333.43	333.43	333.43	333.43	333.43	333.53	333.53	333.53	333.53
<b>15.0</b>	329.43	329.43	329.43	329.43	329.43	329.43	329.43	329.43	329.43	329.43
<b>17.5</b>	324.43	324.43	324.43	324.43	324.43	324.43	324.43	324.53	324.53	324.53
<b>20.0</b>	318.83	318.83	318.83	318.93	318.93	318.93	319.03	319.03	319.03	319.13
<b>22.5</b>	312.73	312.73	312.73	312.73	312.73	312.73	312.73	312.83	312.83	312.83
<b>25.0</b>	305.73	305.73	305.83	305.83	305.83	305.83	305.93	305.93	306.03	306.03

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

27.5	298.23	298.33	298.33	298.33	298.33	298.33	298.33	298.43	298.43	298.43	298.43
30.0	290.13	290.13	290.13	290.13	290.23	290.23	290.23	290.23	290.23	290.23	290.33
32.5	281.53	281.43	281.43	281.53	281.53	281.53	281.53	281.53	281.53	281.53	281.53
35.0	272.13	272.03	272.13	272.03	272.13	272.03	272.13	272.13	272.13	272.13	272.23
37.5	262.23	262.23	262.23	262.23	262.23	262.23	262.33	262.23	262.33	262.33	262.33
40.0	251.63	251.63	251.63	251.63	251.63	251.73	251.73	251.83	251.83	251.83	251.83
42.5	240.72	240.72	240.82	240.82	240.82	240.82	240.82	240.82	240.82	240.82	240.92
45.0	229.32	229.42	229.42	229.42	229.42	229.42	229.42	229.42	229.42	229.42	229.52
47.5	217.62	217.62	217.62	217.62	217.62	217.62	217.72	217.72	217.72	217.72	217.82
50.0	205.22	205.22	205.22	205.22	205.22	205.32	205.32	205.32	205.32	205.42	205.42
52.5	192.42	192.42	192.42	192.42	192.52	192.52	192.62	192.62	192.62	192.62	192.72
55.0	179.32	179.32	179.32	179.42	179.42	179.42	179.52	179.52	179.52	179.62	179.62
57.5	165.92	165.92	165.92	166.02	166.02	166.02	166.12	166.12	166.12	166.12	166.22
60.0	152.22	152.22	152.22	152.22	152.22	152.22	152.32	152.42	152.52	152.52	152.52
62.5	138.21	138.21	138.21	138.31	138.31	138.31	138.31	138.41	138.51	138.61	138.61
65.0	123.91	123.91	124.01	124.01	124.11	124.11	124.21	124.31	124.31	124.31	124.31
67.5	109.61	109.61	109.71	109.71	109.81	109.81	109.81	109.91	110.01	110.11	110.11
70.0	95.61	95.61	95.71	95.71	95.81	95.81	95.91	96.01	96.11	96.11	96.11
72.5	81.41	81.51	81.51	81.71	81.71	81.81	81.81	81.91	81.91	82.01	82.01
75.0	67.51	67.51	67.61	67.61	67.71	67.81	67.91	67.91	68.01	68.11	68.11
77.5	53.91	53.91	54.01	54.01	54.11	54.21	54.31	54.31	54.41	54.51	54.51
80.0	40.80	40.90	40.90	41.00	41.10	41.10	41.20	41.30	41.40	41.50	41.50
82.5	28.40	28.40	28.50	28.50	28.60	28.70	28.70	28.80	28.90	28.90	28.90
85.0	16.60	16.70	16.70	16.80	16.80	16.90	16.90	17.00	17.00	17.10	17.10
87.5	6.20	6.20	6.20	6.20	6.20	6.30	6.30	6.30	6.30	6.40	6.40
90.0	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30

Vert. Angles	Horizontal Angles										
	<u>200.0</u>	<u>202.5</u>	<u>205.0</u>	<u>207.5</u>	<u>210.0</u>	<u>212.5</u>	<u>215.0</u>	<u>217.5</u>	<u>220.0</u>	<u>222.5</u>	
0.0	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13
2.5	342.73	342.73	342.73	342.83	342.83	342.73	342.83	342.83	342.83	342.83	342.83
5.0	341.43	341.43	341.53	341.53	341.53	341.53	341.53	341.53	341.53	341.53	341.53
7.5	339.53	339.53	339.63	339.63	339.63	339.63	339.63	339.63	339.63	339.63	339.63
10.0	336.93	336.93	336.93	336.93	336.93	336.93	336.93	337.03	337.03	337.03	337.03
12.5	333.53	333.53	333.53	333.53	333.53	333.53	333.63	333.63	333.63	333.63	333.63
15.0	329.43	329.43	329.43	329.43	329.43	329.43	329.43	329.53	329.53	329.53	329.53
17.5	324.53	324.53	324.53	324.63	324.63	324.63	324.63	324.73	324.73	324.73	324.73
20.0	319.13	319.13	319.13	319.13	319.13	319.13	319.13	319.23	319.23	319.23	319.33
22.5	312.93	312.93	312.93	313.03	313.03	313.13	313.13	313.13	313.23	313.23	313.23
25.0	306.03	306.03	306.13	306.13	306.13	306.23	306.23	306.33	306.33	306.33	306.33
27.5	298.53	298.53	298.63	298.73	298.73	298.83	298.83	298.83	298.83	298.83	298.83
30.0	290.33	290.43	290.43	290.53	290.53	290.63	290.63	290.63	290.73	290.73	290.73
32.5	281.53	281.63	281.63	281.73	281.83	281.83	281.93	281.93	282.03	282.03	282.03
35.0	272.23	272.33	272.33	272.43	272.53	272.53	272.53	272.53	272.53	272.63	272.63
37.5	262.33	262.33	262.43	262.53	262.53	262.63	262.63	262.73	262.73	262.83	262.83
40.0	251.93	251.93	252.03	252.03	252.13	252.13	252.13	252.13	252.13	252.33	252.33
42.5	240.92	241.02	241.02	241.12	241.22	241.22	241.22	241.32	241.32	241.42	241.42
45.0	229.52	229.62	229.62	229.72	229.72	229.82	229.92	229.92	230.02	230.12	230.12
47.5	217.82	217.92	217.92	218.02	218.02	218.12	218.22	218.22	218.22	218.32	218.32
50.0	205.42	205.42	205.52	205.62	205.62	205.72	205.82	205.92	205.92	205.92	205.92
52.5	192.72	192.82	192.92	192.92	192.92	193.02	193.02	193.12	193.22	193.32	193.32
55.0	179.62	179.72	179.82	179.82	179.92	180.02	180.02	180.12	180.12	180.22	180.22
57.5	166.22	166.32	166.42	166.42	166.52	166.62	166.62	166.72	166.82	166.92	166.92
60.0	152.62	152.72	152.82	152.82	152.82	153.02	153.02	153.22	153.22	153.32	153.32
62.5	138.61	138.71	138.81	138.81	138.91	139.01	139.11	139.21	139.31	139.31	139.31
65.0	124.41	124.51	124.61	124.61	124.71	124.81	124.81	124.91	125.01	125.21	125.21
67.5	110.21	110.31	110.31	110.41	110.51	110.61	110.71	110.81	110.81	110.91	110.91
70.0	96.21	96.31	96.31	96.51	96.61	96.61	96.81	96.91	96.91	97.01	97.01
72.5	82.11	82.21	82.41	82.41	82.51	82.61	82.71	82.81	82.91	83.01	83.01

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>75.0</b>	68.21	68.31	68.41	68.51	68.61	68.71	68.81	68.91	69.01	69.01
<b>77.5</b>	54.61	54.71	54.81	54.91	55.01	55.11	55.21	55.31	55.41	55.51
<b>80.0</b>	41.50	41.60	41.70	41.80	41.90	42.00	42.10	42.20	42.30	42.40
<b>82.5</b>	29.00	29.10	29.20	29.30	29.40	29.40	29.50	29.60	29.70	29.80
<b>85.0</b>	17.20	17.20	17.30	17.40	17.50	17.50	17.60	17.70	17.70	17.80
<b>87.5</b>	6.30	6.20	6.20	6.30	6.30	6.30	6.30	6.30	6.30	6.30
<b>90.0</b>	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.20	0.20

**Vert.  
Angles**

**Horizontal Angles**

	<b><u>225.0</u></b>	<b><u>227.5</u></b>	<b><u>230.0</u></b>	<b><u>232.5</u></b>	<b><u>235.0</u></b>	<b><u>237.5</u></b>	<b><u>240.0</u></b>	<b><u>242.5</u></b>	<b><u>245.0</u></b>	<b><u>247.5</u></b>
<b>0.0</b>	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13
<b>2.5</b>	342.83	342.83	342.83	342.83	342.83	342.83	342.83	342.83	342.83	342.83
<b>5.0</b>	341.53	341.53	341.53	341.63	341.63	341.63	341.63	341.63	341.63	341.63
<b>7.5</b>	339.63	339.73	339.73	339.73	339.73	339.73	339.83	339.73	339.73	339.73
<b>10.0</b>	337.13	337.13	337.13	337.13	337.13	337.13	337.13	337.23	337.23	337.33
<b>12.5</b>	333.63	333.63	333.63	333.73	333.73	333.83	333.83	333.83	333.93	333.93
<b>15.0</b>	329.63	329.63	329.63	329.63	329.73	329.73	329.83	329.93	329.93	329.93
<b>17.5</b>	324.83	324.83	324.83	324.93	324.93	325.03	325.03	325.03	325.03	325.13
<b>20.0</b>	319.33	319.33	319.43	319.53	319.53	319.63	319.63	319.63	319.73	319.73
<b>22.5</b>	313.33	313.33	313.33	313.43	313.43	313.53	313.53	313.63	313.63	313.73
<b>25.0</b>	306.33	306.43	306.53	306.53	306.63	306.63	306.73	306.83	306.83	306.83
<b>27.5</b>	298.93	298.93	299.03	299.13	299.13	299.23	299.33	299.33	299.33	299.43
<b>30.0</b>	290.83	290.83	290.93	290.93	291.03	291.13	291.23	291.23	291.23	291.33
<b>32.5</b>	282.03	282.13	282.13	282.23	282.33	282.43	282.43	282.53	282.63	282.63
<b>35.0</b>	272.73	272.73	272.83	272.93	273.03	273.03	273.03	273.13	273.23	273.23
<b>37.5</b>	262.83	262.83	262.93	263.03	263.13	263.13	263.23	263.33	263.33	263.43
<b>40.0</b>	252.33	252.43	252.53	252.53	252.63	252.63	252.73	252.83	252.93	253.03
<b>42.5</b>	241.52	241.52	241.62	241.72	241.72	241.82	241.92	241.92	242.02	242.12
<b>45.0</b>	230.12	230.12	230.22	230.32	230.42	230.52	230.62	230.62	230.72	230.72
<b>47.5</b>	218.42	218.52	218.62	218.62	218.72	218.82	218.82	218.92	219.02	219.12
<b>50.0</b>	206.02	206.12	206.22	206.32	206.42	206.42	206.52	206.62	206.72	206.82
<b>52.5</b>	193.42	193.52	193.52	193.62	193.62	193.72	193.82	194.02	194.12	194.12
<b>55.0</b>	180.42	180.52	180.62	180.62	180.62	180.72	180.82	180.92	181.02	181.12
<b>57.5</b>	167.02	167.12	167.22	167.22	167.32	167.42	167.52	167.62	167.72	167.82
<b>60.0</b>	153.32	153.42	153.42	153.62	153.72	153.82	153.82	153.92	154.02	154.12
<b>62.5</b>	139.41	139.51	139.61	139.71	139.81	139.91	140.01	140.11	140.11	140.21
<b>65.0</b>	125.31	125.31	125.41	125.51	125.61	125.81	125.81	125.91	126.01	126.11
<b>67.5</b>	111.01	111.11	111.31	111.41	111.41	111.51	111.61	111.71	111.81	111.91
<b>70.0</b>	97.11	97.31	97.41	97.41	97.51	97.61	97.71	97.81	97.91	97.91
<b>72.5</b>	83.11	83.21	83.31	83.41	83.41	83.51	83.71	83.71	83.91	84.01
<b>75.0</b>	69.21	69.31	69.41	69.51	69.51	69.61	69.71	69.81	69.91	70.01
<b>77.5</b>	55.61	55.71	55.81	55.91	56.01	56.01	56.11	56.21	56.31	56.41
<b>80.0</b>	42.50	42.60	42.70	42.70	42.80	42.90	43.00	43.10	43.20	43.20
<b>82.5</b>	29.90	30.00	30.10	30.10	30.20	30.30	30.40	30.50	30.50	30.60
<b>85.0</b>	17.90	18.00	18.00	18.10	18.20	18.30	18.30	18.40	18.50	18.60
<b>87.5</b>	6.30	6.40	6.40	6.60	6.80	6.90	6.90	7.00	7.10	7.20
<b>90.0</b>	0.20	0.20	0.20	0.30	0.30	0.30	0.30	0.30	0.30	0.30

**Vert.  
Angles**

**Horizontal Angles**

	<b><u>250.0</u></b>	<b><u>252.5</u></b>	<b><u>255.0</u></b>	<b><u>257.5</u></b>	<b><u>260.0</u></b>	<b><u>262.5</u></b>	<b><u>265.0</u></b>	<b><u>267.5</u></b>	<b><u>270.0</u></b>	<b><u>272.5</u></b>
<b>0.0</b>	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13
<b>2.5</b>	342.83	342.83	342.83	342.83	342.83	342.83	342.83	342.83	342.83	342.83
<b>5.0</b>	341.63	341.63	341.63	341.63	341.63	341.73	341.73	341.73	341.73	341.73
<b>7.5</b>	339.73	339.73	339.83	339.83	339.83	339.83	339.83	339.83	339.93	339.93
<b>10.0</b>	337.33	337.33	337.33	337.33	337.33	337.33	337.43	337.43	337.43	337.43
<b>12.5</b>	333.93	334.03	334.03	334.03	334.13	334.13	334.13	334.13	334.13	334.13
<b>15.0</b>	329.93	329.93	329.93	329.93	330.03	330.03	330.13	330.13	330.13	330.23
<b>17.5</b>	325.13	325.23	325.23	325.23	325.33	325.33	325.33	325.43	325.53	325.53



**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

20.0	319.83	319.83	319.93	319.93	320.03	320.03	320.03	320.13	320.23	320.23
22.5	313.83	313.83	313.83	313.83	313.93	313.93	314.03	314.03	314.03	314.13
25.0	306.93	306.93	307.03	307.13	307.23	307.23	307.33	307.33	307.33	307.33
27.5	299.53	299.63	299.63	299.73	299.83	299.83	299.83	299.93	300.03	300.03
30.0	291.43	291.53	291.53	291.63	291.73	291.83	291.83	291.83	292.03	292.03
32.5	282.63	282.73	282.83	282.83	282.93	283.03	283.13	283.13	283.13	283.23
35.0	273.33	273.43	273.53	273.53	273.63	273.63	273.93	274.03	274.03	274.03
37.5	263.53	263.63	263.63	263.73	263.83	263.93	263.93	264.03	264.13	264.23
40.0	253.13	253.13	253.23	253.33	253.33	253.43	253.53	253.63	253.63	253.73
42.5	242.22	242.32	242.42	242.42	242.42	242.52	242.62	242.72	242.72	242.82
45.0	230.82	230.92	231.02	231.12	231.12	231.22	231.32	231.42	231.42	231.52
47.5	219.12	219.22	219.32	219.42	219.52	219.62	219.72	219.82	219.92	219.92
50.0	206.92	206.92	207.02	207.12	207.22	207.32	207.42	207.42	207.52	207.62
52.5	194.12	194.32	194.32	194.42	194.52	194.52	194.62	194.72	194.82	194.92
55.0	181.12	181.22	181.32	181.42	181.52	181.62	181.72	181.72	181.82	181.92
57.5	167.82	167.92	168.02	168.12	168.22	168.32	168.42	168.52	168.72	168.72
60.0	154.32	154.42	154.42	154.42	154.62	154.62	154.72	154.82	154.92	154.92
62.5	140.41	140.41	140.51	140.61	140.71	140.81	140.91	140.91	141.01	141.11
65.0	126.21	126.31	126.41	126.41	126.51	126.61	126.71	126.81	126.91	126.91
67.5	111.91	112.01	112.11	112.21	112.31	112.41	112.41	112.51	112.71	112.71
70.0	98.01	98.11	98.21	98.31	98.41	98.51	98.51	98.61	98.71	98.71
72.5	84.01	84.01	84.11	84.21	84.31	84.41	84.51	84.61	84.61	84.61
75.0	70.11	70.11	70.21	70.31	70.31	70.41	70.51	70.61	70.61	70.61
77.5	56.51	56.51	56.61	56.71	56.81	56.81	56.81	56.91	57.01	57.01
80.0	43.30	43.40	43.50	43.50	43.60	43.70	43.70	43.80	43.80	43.90
82.5	30.70	30.80	30.90	30.90	31.00	31.00	31.10	31.20	31.20	31.30
85.0	18.60	18.70	18.80	18.80	18.90	19.00	19.00	19.10	19.10	19.20
87.5	7.40	7.60	7.70	7.80	7.80	7.90	8.00	8.00	8.10	8.10
90.0	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30

**Vert.  
Angles**

**Horizontal Angles**

	<u>275.0</u>	<u>277.5</u>	<u>280.0</u>	<u>282.5</u>	<u>285.0</u>	<u>287.5</u>	<u>290.0</u>	<u>292.5</u>	<u>295.0</u>	<u>297.5</u>
0.0	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13
2.5	342.83	342.83	342.83	342.83	342.83	342.83	342.83	342.83	342.83	342.83
5.0	341.73	341.73	341.73	341.73	341.83	341.83	341.83	341.83	341.83	341.83
7.5	339.93	339.93	339.93	340.03	340.03	340.03	340.03	340.03	340.03	340.03
10.0	337.43	337.43	337.43	337.43	337.53	337.53	337.53	337.53	337.53	337.63
12.5	334.13	334.13	334.23	334.23	334.23	334.33	334.33	334.33	334.43	334.43
15.0	330.33	330.33	330.43	330.43	330.43	330.43	330.43	330.43	330.43	330.43
17.5	325.53	325.53	325.53	325.63	325.63	325.73	325.73	325.83	325.83	325.93
20.0	320.23	320.23	320.23	320.33	320.33	320.43	320.43	320.53	320.53	320.63
22.5	314.23	314.33	314.33	314.33	314.33	314.43	314.53	314.53	314.63	314.63
25.0	307.43	307.53	307.53	307.63	307.63	307.73	307.73	307.83	307.93	307.93
27.5	300.03	300.13	300.23	300.23	300.33	300.43	300.43	300.43	300.53	300.53
30.0	292.03	292.13	292.23	292.23	292.33	292.33	292.33	292.43	292.53	292.53
32.5	283.33	283.43	283.53	283.53	283.63	283.73	283.73	283.73	283.83	283.93
35.0	274.13	274.23	274.33	274.33	274.43	274.53	274.53	274.53	274.63	274.73
37.5	264.33	264.33	264.43	264.43	264.53	264.63	264.63	264.73	264.83	264.93
40.0	253.83	253.93	254.03	254.03	254.13	254.13	254.23	254.23	254.33	254.43
42.5	242.92	242.92	243.02	243.22	243.32	243.32	243.42	243.42	243.42	243.52
45.0	231.62	231.62	231.72	231.82	231.92	232.02	232.12	232.12	232.22	232.32
47.5	220.02	220.12	220.22	220.22	220.32	220.42	220.42	220.52	220.52	220.62
50.0	207.72	207.82	207.92	207.92	208.02	208.02	208.12	208.22	208.22	208.32
52.5	195.02	195.12	195.12	195.22	195.32	195.42	195.52	195.62	195.62	195.62
55.0	182.02	182.12	182.22	182.32	182.32	182.42	182.52	182.62	182.72	182.72
57.5	168.72	168.82	168.92	168.92	169.02	169.12	169.22	169.32	169.32	169.42
60.0	155.02	155.12	155.22	155.32	155.42	155.42	155.52	155.62	155.72	155.72
62.5	141.21	141.31	141.31	141.41	141.41	141.51	141.61	141.71	141.71	141.81
65.0	127.01	127.01	127.21	127.21	127.31	127.41	127.41	127.51	127.51	127.51

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

67.5	112.71	112.81	112.91	112.91	113.01	113.01	113.11	113.11	113.21	113.21
70.0	98.71	98.81	98.91	99.01	99.01	99.11	99.11	99.11	99.11	99.21
72.5	84.71	84.71	84.81	84.81	84.91	84.91	85.01	85.01	85.11	85.11
75.0	70.61	70.71	70.71	70.81	70.81	70.91	70.91	71.01	71.01	71.01
77.5	57.01	57.11	57.11	57.21	57.21	57.21	57.31	57.31	57.31	57.31
80.0	43.90	44.00	44.00	44.00	44.10	44.10	44.10	44.20	44.20	44.20
82.5	31.30	31.30	31.40	31.40	31.50	31.50	31.50	31.60	31.60	31.60
85.0	19.30	19.30	19.40	19.40	19.40	19.50	19.50	19.60	19.60	19.60
87.5	8.20	8.30	8.30	8.40	8.40	8.50	8.50	8.60	8.60	8.60
90.0	0.30	0.30	0.30	0.30	0.20	0.20	0.20	0.20	0.20	0.30

**Vert.  
Angles**

**Horizontal Angles**

	<u>300.0</u>	<u>302.5</u>	<u>305.0</u>	<u>307.5</u>	<u>310.0</u>	<u>312.5</u>	<u>315.0</u>	<u>317.5</u>	<u>320.0</u>	<u>322.5</u>
0.0	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13
2.5	342.93	342.93	342.93	342.93	342.93	342.93	342.93	342.93	342.93	342.93
5.0	341.83	341.83	341.83	341.93	341.93	341.93	341.93	341.93	341.93	341.93
7.5	340.03	340.03	340.03	340.03	340.03	340.13	340.13	340.13	340.13	340.13
10.0	337.63	337.73	337.73	337.73	337.83	337.83	337.83	337.83	337.83	337.83
12.5	334.43	334.43	334.53	334.53	334.63	334.63	334.63	334.63	334.63	334.63
15.0	330.53	330.53	330.53	330.63	330.63	330.63	330.73	330.73	330.73	330.73
17.5	325.93	325.93	326.03	326.03	326.03	326.03	326.13	326.13	326.13	326.13
20.0	320.63	320.63	320.73	320.73	320.73	320.83	320.83	320.83	320.83	320.83
22.5	314.73	314.73	314.73	314.83	314.83	314.93	314.93	314.93	314.93	314.93
25.0	307.93	307.93	307.93	308.03	308.03	308.13	308.13	308.13	308.23	308.23
27.5	300.63	300.73	300.73	300.83	300.83	300.83	300.83	300.93	300.93	300.93
30.0	292.63	292.63	292.73	292.83	292.83	292.93	292.93	292.93	292.93	292.93
32.5	283.93	284.03	284.13	284.13	284.13	284.23	284.23	284.33	284.33	284.33
35.0	274.73	274.83	274.93	274.93	275.03	275.03	275.13	275.13	275.13	275.13
37.5	264.93	264.93	265.03	265.13	265.13	265.23	265.33	265.33	265.43	265.43
40.0	254.53	254.63	254.73	254.73	254.73	254.73	254.83	254.83	254.93	254.93
42.5	243.62	243.72	243.82	243.92	243.92	243.92	244.02	244.02	244.12	244.12
45.0	232.32	232.42	232.52	232.62	232.62	232.72	232.72	232.72	232.82	232.92
47.5	220.72	220.82	220.92	220.92	220.92	221.02	221.02	221.12	221.12	221.22
50.0	208.42	208.52	208.62	208.62	208.62	208.72	208.82	208.92	208.92	209.02
52.5	195.72	195.82	195.82	195.92	196.02	196.12	196.12	196.22	196.22	196.22
55.0	182.82	182.82	182.92	183.02	183.02	183.12	183.22	183.22	183.32	183.32
57.5	169.42	169.52	169.62	169.72	169.72	169.82	169.92	169.92	169.92	169.92
60.0	155.82	155.92	155.92	155.92	156.02	156.12	156.12	156.22	156.32	156.32
62.5	141.91	141.91	142.01	142.01	142.01	142.11	142.21	142.21	142.31	142.41
65.0	127.61	127.71	127.71	127.81	127.81	127.91	128.01	128.01	128.11	128.11
67.5	113.31	113.41	113.41	113.51	113.51	113.61	113.61	113.61	113.71	113.71
70.0	99.31	99.31	99.31	99.41	99.41	99.51	99.61	99.61	99.61	99.71
72.5	85.11	85.11	85.11	85.21	85.21	85.31	85.31	85.31	85.41	85.51
75.0	71.11	71.11	71.11	71.11	71.21	71.21	71.21	71.21	71.31	71.31
77.5	57.31	57.41	57.41	57.41	57.51	57.51	57.51	57.51	57.61	57.61
80.0	44.20	44.20	44.30	44.30	44.30	44.30	44.40	44.40	44.40	44.50
82.5	31.60	31.70	31.70	31.70	31.80	31.80	31.80	31.80	31.90	31.90
85.0	19.70	19.70	19.80	19.80	19.80	19.90	19.90	19.90	20.00	20.00
87.5	8.70	8.70	8.80	8.80	8.80	8.80	8.80	8.90	8.90	8.90
90.0	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30

**Vert.  
Angles**

**Horizontal Angles**

	<u>325.0</u>	<u>327.5</u>	<u>330.0</u>	<u>332.5</u>	<u>335.0</u>	<u>337.5</u>	<u>340.0</u>	<u>342.5</u>	<u>345.0</u>	<u>347.5</u>
0.0	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13	343.13
2.5	342.93	342.93	342.93	342.93	342.83	342.83	342.83	342.83	342.83	342.83
5.0	341.93	341.93	341.93	341.93	341.93	341.93	341.93	341.93	341.93	342.03
7.5	340.13	340.13	340.13	340.13	340.13	340.13	340.13	340.13	340.13	340.13
10.0	337.83	337.83	337.83	337.83	337.83	337.83	337.83	337.83	337.83	337.83

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

12.5	334.63	334.63	334.73	334.73	334.63	334.63	334.63	334.73	334.73	334.73
15.0	330.73	330.83	330.83	330.83	330.83	330.83	330.83	330.83	330.83	330.83
17.5	326.13	326.13	326.13	326.13	326.13	326.23	326.13	326.23	326.23	326.23
20.0	320.83	320.83	320.83	320.83	320.83	320.83	320.93	320.93	320.93	320.93
22.5	314.93	314.93	314.93	315.03	315.03	315.03	315.03	315.03	315.03	315.03
25.0	308.33	308.33	308.33	308.33	308.43	308.43	308.43	308.43	308.43	308.43
27.5	300.93	300.93	300.93	301.03	301.03	301.03	301.03	301.03	301.13	301.13
30.0	293.03	293.03	293.03	293.13	293.13	293.13	293.13	293.13	293.23	293.23
32.5	284.43	284.43	284.43	284.53	284.53	284.53	284.53	284.53	284.63	284.63
35.0	275.13	275.23	275.23	275.23	275.33	275.33	275.33	275.43	275.43	275.43
37.5	265.53	265.53	265.53	265.53	265.53	265.53	265.53	265.53	265.63	265.63
40.0	254.93	255.03	255.03	255.03	255.13	255.13	255.13	255.13	255.13	255.13
42.5	244.12	244.22	244.32	244.32	244.32	244.32	244.42	244.42	244.42	244.42
45.0	232.92	233.02	233.02	233.02	233.12	233.12	233.12	233.22	233.22	233.22
47.5	221.32	221.32	221.42	221.42	221.42	221.42	221.42	221.52	221.52	221.62
50.0	209.02	209.12	209.12	209.12	209.12	209.12	209.12	209.12	209.12	209.22
52.5	196.32	196.32	196.42	196.42	196.52	196.52	196.62	196.62	196.62	196.62
55.0	183.32	183.32	183.42	183.52	183.52	183.62	183.62	183.62	183.72	183.72
57.5	170.02	170.02	170.12	170.22	170.22	170.22	170.32	170.32	170.42	170.42
60.0	156.42	156.42	156.42	156.42	156.52	156.52	156.62	156.62	156.62	156.72
62.5	142.41	142.51	142.61	142.61	142.61	142.61	142.71	142.71	142.81	142.81
65.0	128.11	128.21	128.21	128.31	128.31	128.41	128.51	128.51	128.61	128.61
67.5	113.81	113.81	113.91	114.01	114.01	114.11	114.11	114.11	114.21	114.21
70.0	99.71	99.81	99.81	99.91	99.91	100.01	100.11	100.11	100.11	100.11
72.5	85.51	85.61	85.61	85.61	85.71	85.71	85.81	85.91	85.91	86.01
75.0	71.31	71.41	71.51	71.51	71.61	71.61	71.71	71.71	71.81	71.81
77.5	57.71	57.71	57.81	57.81	57.91	57.91	58.01	58.01	58.11	58.21
80.0	44.50	44.60	44.60	44.70	44.70	44.80	44.80	44.90	44.90	45.00
82.5	32.00	32.00	32.10	32.10	32.20	32.20	32.30	32.30	32.40	32.40
85.0	20.00	20.10	20.10	20.20	20.20	20.30	20.30	20.30	20.40	20.40
87.5	8.90	9.00	9.00	9.10	9.10	9.20	9.20	9.30	9.40	9.40
90.0	0.40	0.50	0.50	0.60	0.60	0.60	0.60	0.70	0.70	0.70

**Vert.  
Angles**

**Horizontal Angles**

	<b><u>350.0</u></b>	<b><u>352.5</u></b>	<b><u>355.0</u></b>	<b><u>357.5</u></b>	<b><u>360.0</u></b>
0.0	343.13	343.13	343.13	343.13	343.13
2.5	342.83	342.83	342.83	342.83	342.93
5.0	342.03	342.03	341.93	341.93	341.93
7.5	340.13	340.13	340.13	340.23	340.23
10.0	337.83	337.83	337.83	337.83	337.83
12.5	334.73	334.73	334.73	334.73	334.73
15.0	330.83	330.83	330.83	330.83	330.83
17.5	326.23	326.23	326.23	326.23	326.13
20.0	320.93	320.93	320.93	320.93	320.93
22.5	315.03	315.03	315.13	315.13	315.03
25.0	308.43	308.43	308.43	308.43	308.43
27.5	301.13	301.13	301.13	301.13	301.13
30.0	293.23	293.23	293.23	293.23	293.23
32.5	284.63	284.63	284.53	284.53	284.63
35.0	275.43	275.43	275.43	275.43	275.43
37.5	265.63	265.63	265.63	265.63	265.53
40.0	255.23	255.23	255.23	255.23	255.23
42.5	244.42	244.42	244.42	244.52	244.42
45.0	233.22	233.22	233.22	233.22	233.22
47.5	221.62	221.62	221.62	221.62	221.62
50.0	209.22	209.22	209.22	209.22	209.22
52.5	196.72	196.72	196.72	196.72	196.72
55.0	183.72	183.72	183.72	183.82	183.82
57.5	170.42	170.42	170.42	170.42	170.42

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>60.0</b>	156.72	156.72	156.72	156.82	156.82
<b>62.5</b>	142.81	142.81	142.91	142.91	142.91
<b>65.0</b>	128.61	128.61	128.61	128.71	128.71
<b>67.5</b>	114.31	114.31	114.31	114.41	114.51
<b>70.0</b>	100.21	100.21	100.31	100.41	100.41
<b>72.5</b>	86.11	86.11	86.21	86.21	86.21
<b>75.0</b>	71.91	72.01	72.01	72.11	72.11
<b>77.5</b>	58.21	58.31	58.31	58.41	58.41
<b>80.0</b>	45.00	45.10	45.20	45.20	45.30
<b>82.5</b>	32.50	32.50	32.60	32.60	32.60
<b>85.0</b>	20.40	20.50	20.50	20.50	20.60
<b>87.5</b>	9.40	9.40	9.50	9.50	9.50
<b>90.0</b>	0.70	0.80	0.80	0.80	0.80

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : DN135B D165 1XLED10S\_830.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	125.64	12.60	12.60
0-30	267.19	26.70	26.70
0-40	438.42	43.80	43.80
0-60	779.09	77.90	77.90
0-80	978.54	97.90	97.80
0-90	1000.1	100.00	100.00
10-90	967.62	96.80	96.80
20-40	312.78	31.30	31.30
20-50	491.17	49.10	49.10
40-70	465.85	46.60	46.60
60-80	199.46	19.90	19.90
70-80	74.28	7.40	7.40
80-90	21.56	2.20	2.20
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	1000.1	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	32.48
10-20	93.16
20-30	141.55
30-40	171.23
40-50	178.40
50-60	162.27
60-70	125.18
70-80	74.28
80-90	21.56
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

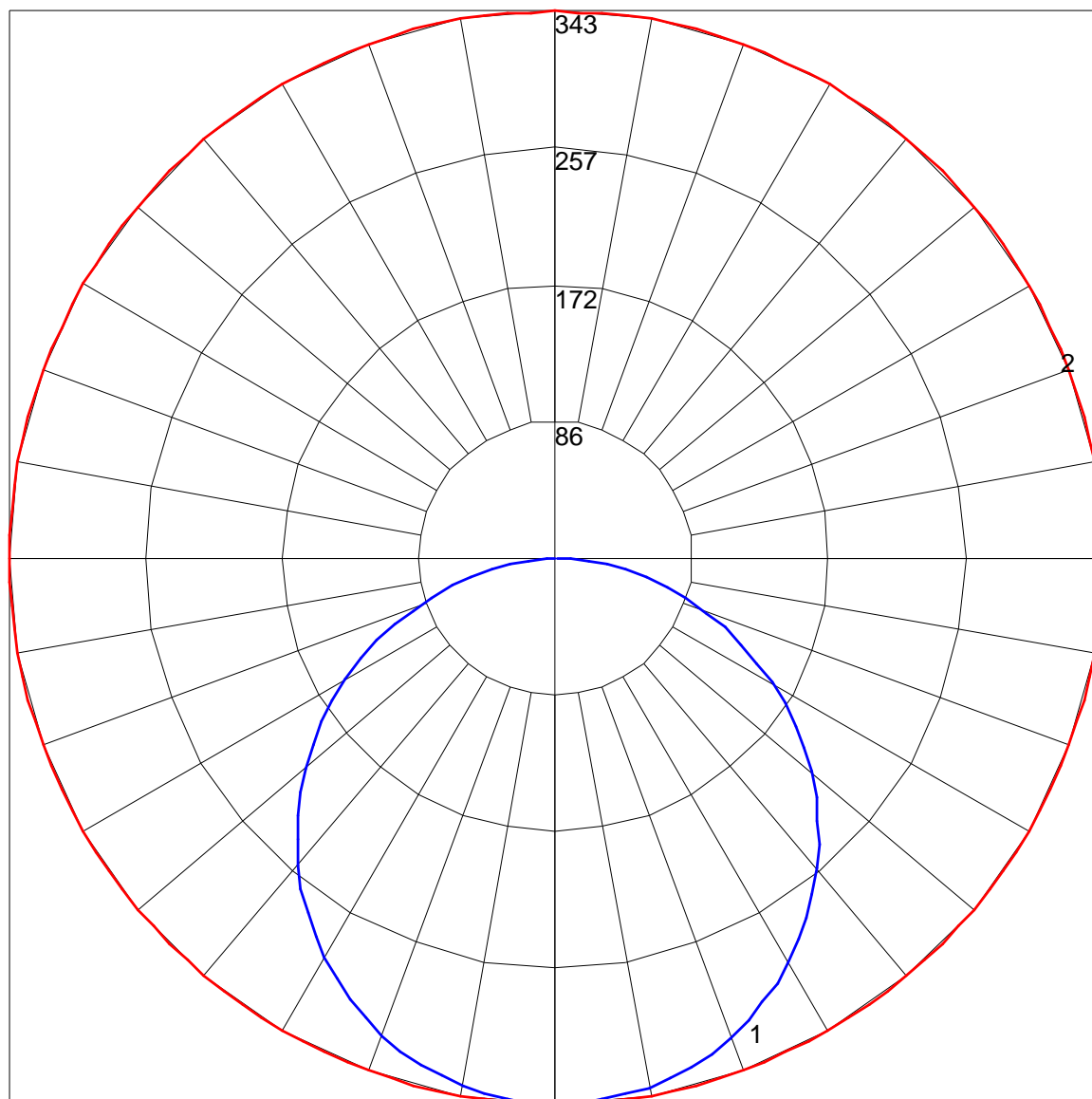
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : DN135B D165 1XLED10S\_830.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	46	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

POLAR GRAPH



Maximum Candela = 343.13 Located At Horizontal Angle = 0, Vertical Angle = 0

# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)