

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: INVUE

Report Number: P181694

Luminaire Tested: **ICS-F02-LED-E1-T4**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P181694  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICS-F02-LED-E1-T4  
Description: ICON SITE SMALL LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4  
Light Source: (14) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4490.8 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

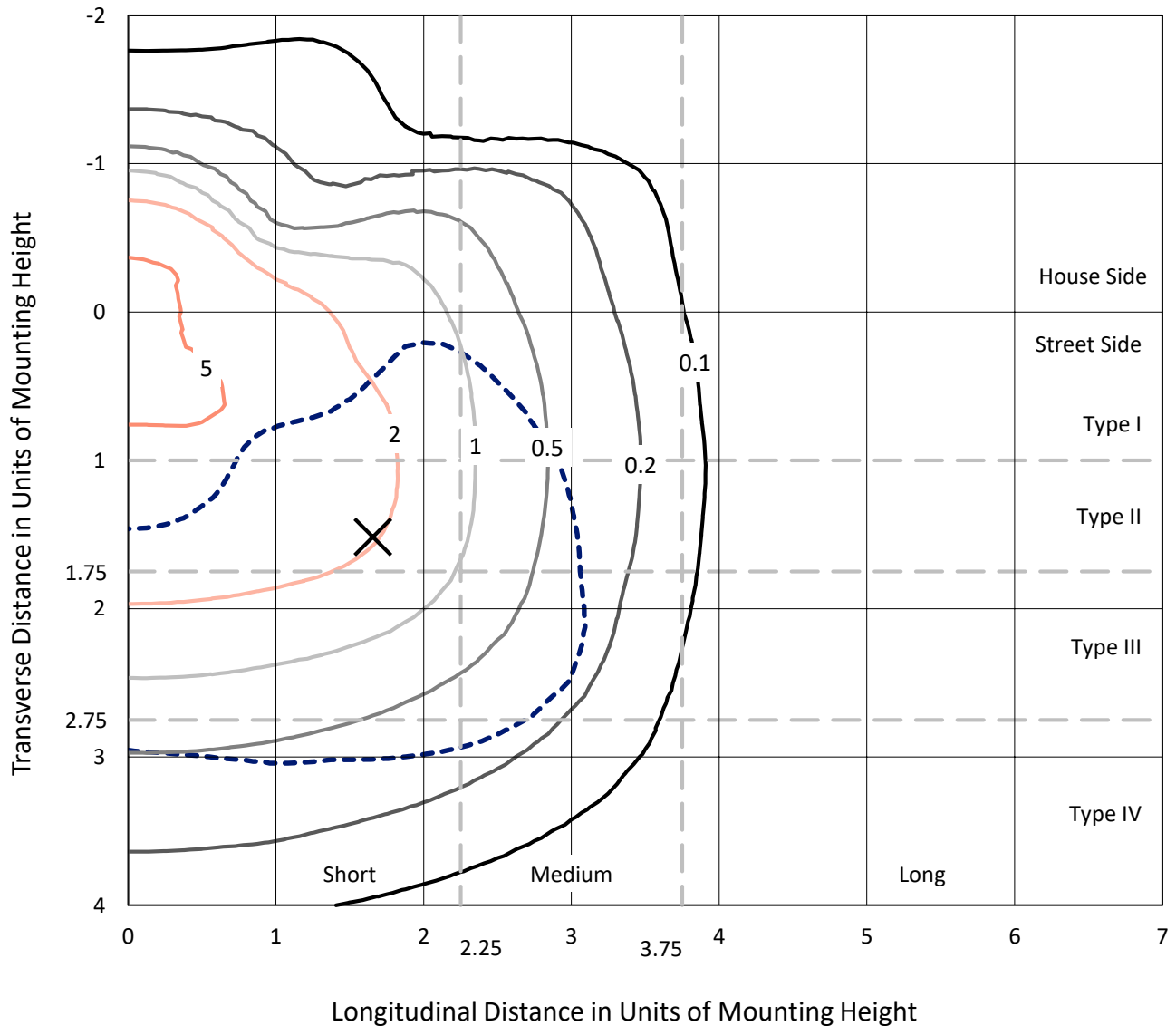
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

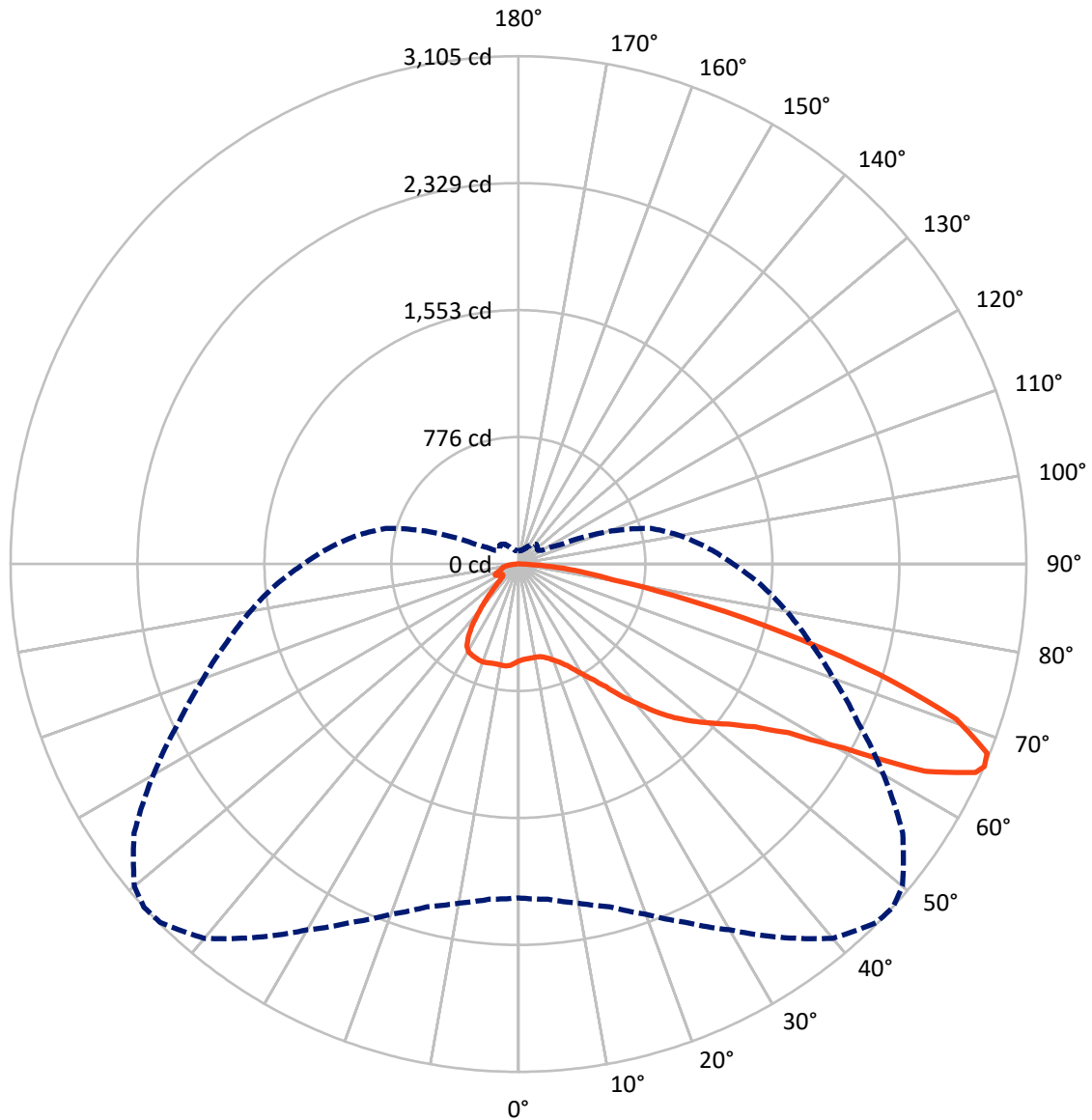
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.2 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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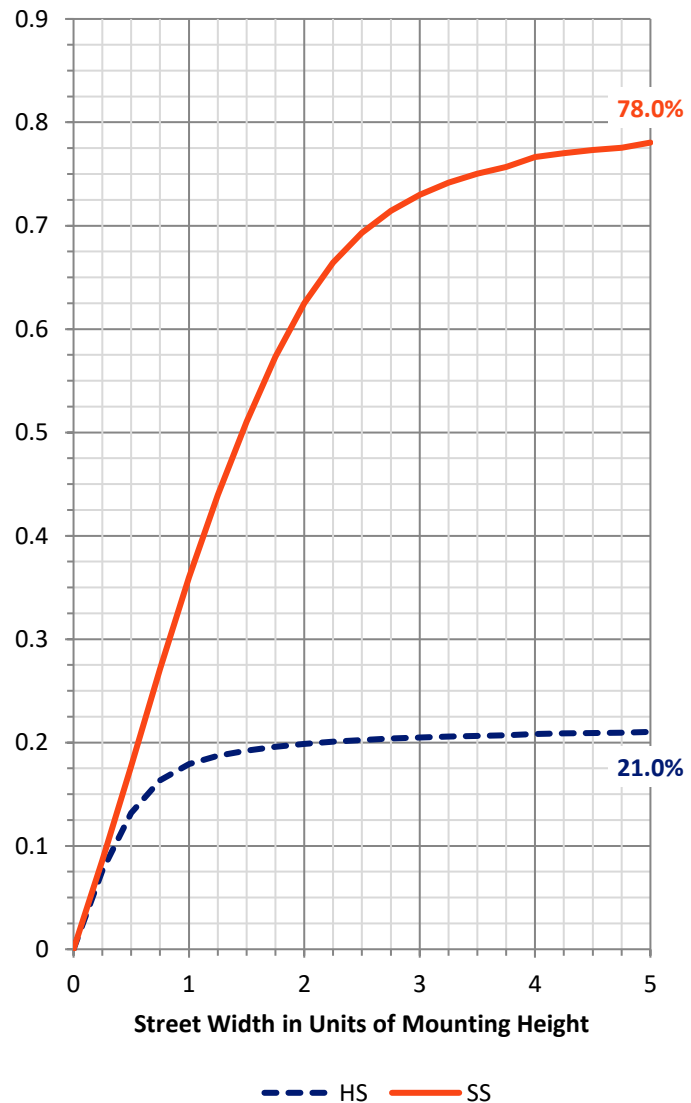
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	958.2	0.0	958.2
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	3532.6	0.0	3532.6
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	4490.8	0.0	4490.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.5	1.3
10°-20°	174.5	3.9
20°-30°	300.6	6.7
30°-40°	454.8	10.1
40°-50°	589.5	13.1
50°-60°	812.7	18.1
60°-70°	1262.6	28.1
70°-80°	734.2	16.3
80°-90°	104.4	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4490.8	100.0
0°-180°	4490.8	100.0



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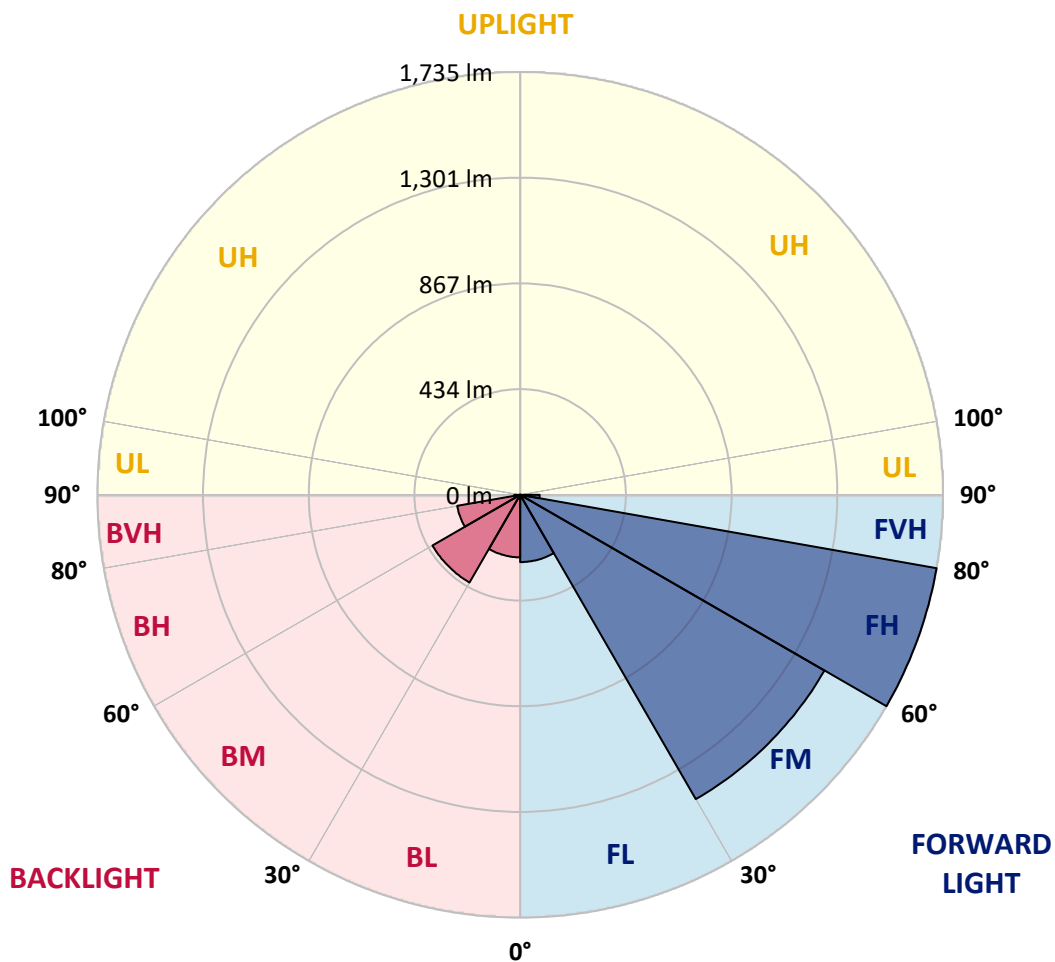
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	276.1	6.1			
FM	(30°-60°)	1441.6	32.1			
FH	(60°-80°)	1734.8	38.6			G1/1800
FVH	(80°-90°)	80.1	1.8			G1/100
BL	(0°-30°)	256.5	5.7	B1/500		
BM	(30°-60°)	415.4	9.2	B1/1000		
BH	(60°-80°)	262.1	5.8	B1/500		G1/500
BVH	(80°-90°)	24.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9
2.5°	581.0	583.0	581.5	582.0	582.0	582.5	582.5	583.0	582.5	584.0	585.0
5°	570.6	571.6	571.1	572.1	573.1	575.1	574.6	577.1	577.6	579.1	581.5
7.5°	566.7	565.7	566.2	567.7	568.7	569.6	570.6	572.6	574.1	577.6	579.6
10°	570.6	570.1	570.6	571.6	571.6	572.1	571.1	573.1	574.1	577.1	579.1
12.5°	587.0	587.0	586.0	586.0	585.0	584.0	581.5	580.0	579.6	580.0	581.0
15°	613.2	612.2	610.3	608.8	606.8	603.3	599.9	596.9	594.9	591.9	590.9
17.5°	639.0	637.5	635.5	633.5	631.1	627.6	622.1	618.7	613.2	609.8	607.8
20°	668.7	665.7	663.3	660.8	655.8	654.8	649.4	643.4	637.0	629.1	628.1
22.5°	707.3	702.4	699.4	697.9	693.0	691.5	682.6	674.2	666.2	655.8	653.4
25°	746.5	741.5	740.0	738.1	734.6	732.6	724.2	714.8	704.4	690.0	687.0
27.5°	784.6	785.1	781.2	782.6	781.6	778.2	769.8	760.3	752.4	735.6	732.1
30°	832.2	829.2	827.2	830.2	826.7	827.2	819.8	814.8	802.0	792.1	785.1
32.5°	881.7	881.2	884.2	886.2	885.7	884.7	878.7	873.8	862.4	848.0	845.1
35°	949.6	952.5	955.0	963.9	963.9	970.4	964.4	958.5	945.1	927.8	921.8
37.5°	995.6	996.6	1006.5	1018.4	1033.3	1047.2	1051.1	1052.6	1047.2	1034.3	1025.4
40°	1037.7	1039.7	1055.6	1073.9	1095.7	1122.9	1139.3	1146.7	1148.2	1142.3	1122.9
42.5°	1079.8	1082.8	1099.2	1125.9	1156.1	1190.8	1219.5	1237.9	1248.3	1248.3	1236.9
45°	1128.9	1132.8	1150.7	1179.9	1215.1	1258.7	1298.3	1333.5	1350.3	1351.3	1340.4
47.5°	1186.8	1190.3	1211.1	1240.8	1277.0	1321.1	1371.1	1411.2	1442.4	1444.4	1435.5
50°	1261.6	1266.6	1283.9	1310.7	1347.8	1392.4	1442.4	1498.4	1531.1	1539.0	1529.6
52.5°	1360.7	1361.7	1376.1	1400.8	1437.0	1479.6	1532.6	1593.5	1636.6	1643.0	1627.7
55°	1497.4	1495.9	1505.3	1532.1	1559.3	1592.5	1647.5	1715.9	1763.9	1773.8	1758.0
57.5°	1683.2	1681.7	1689.6	1696.1	1747.1	1779.3	1833.3	1898.6	1945.2	1973.9	1946.7
60°	1971.0	1969.5	1982.4	2020.0	2058.1	2105.2	2157.7	2236.0	2301.4	2309.8	2283.0
62.5°	2179.5	2186.9	2215.2	2259.3	2336.5	2428.7	2524.8	2627.8	2762.0	2804.6	2791.7
65°	2106.7	2121.5	2160.7	2227.6	2330.6	2457.9	2608.5	2795.2	2975.0	3075.6	3072.6
66°	2041.3	2057.7	2105.7	2170.1	2279.1	2418.3	2582.7	2786.3	2987.4	3098.4	3105.3
67.5°	1922.4	1940.7	1987.8	2064.1	2170.1	2318.2	2495.0	2716.5	2943.8	3073.1	3091.4
70°	1691.1	1711.9	1746.1	1809.0	1913.5	2045.8	2232.0	2430.1	2668.4	2816.5	2838.8
72.5°	1413.7	1432.0	1470.2	1521.7	1607.4	1690.6	1836.7	1982.9	2153.3	2322.2	2305.8
75°	1015.0	1022.9	1045.7	1101.6	1147.7	1222.5	1339.9	1459.8	1576.2	1653.5	1664.3
77.5°	527.5	548.3	580.5	642.5	692.5	759.9	836.1	926.3	1011.5	1082.3	1063.0
80°	345.3	354.2	382.9	414.6	451.3	494.4	545.4	579.1	590.0	585.5	590.0
82.5°	199.1	215.5	253.6	277.9	305.1	320.0	360.6	399.2	421.0	393.8	383.9
85°	25.3	32.7	103.0	129.8	148.6	170.9	183.3	206.6	192.7	172.4	210.0
87.5°	5.4	5.0	6.9	14.9	15.4	12.9	24.3	25.8	15.9	7.9	9.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9
2.5°	586.0	586.5	587.5	589.0	590.0	590.9	591.9	593.4	594.4	595.4	597.4
5°	583.5	585.5	587.5	589.5	591.9	595.9	598.4	600.4	602.3	606.3	607.8
7.5°	582.0	585.5	588.5	591.9	595.9	599.4	603.8	606.3	609.3	611.7	614.7
10°	581.0	586.0	589.0	593.9	598.4	601.8	606.8	609.8	613.2	616.2	617.7
12.5°	583.0	585.5	588.5	593.4	598.9	603.8	609.3	611.7	614.7	617.2	617.7
15°	591.4	591.4	591.9	595.9	601.3	605.3	609.8	612.2	613.7	615.2	615.2
17.5°	606.8	603.3	600.8	601.3	604.8	607.3	609.8	609.8	608.8	608.3	607.3
20°	624.6	620.2	615.2	611.7	610.8	608.8	607.3	602.3	598.4	594.9	592.4
22.5°	650.4	643.4	636.5	630.1	624.1	616.7	608.3	598.4	589.0	582.5	578.6
25°	682.1	676.6	668.2	658.3	650.9	637.0	626.1	611.7	599.9	591.4	584.5
27.5°	727.2	720.7	712.8	703.9	693.0	677.6	664.3	647.4	633.0	620.7	611.7
30°	783.1	774.7	768.8	757.9	750.4	733.1	719.7	698.9	671.2	651.4	639.0
32.5°	840.6	831.2	826.2	817.8	809.4	799.0	778.7	746.5	710.8	678.6	657.3
35°	917.4	907.5	898.6	891.1	878.7	859.4	841.6	802.9	753.9	708.8	673.2
37.5°	1014.0	997.6	975.3	956.5	934.7	907.0	879.7	840.1	784.1	725.7	678.1
40°	1117.0	1088.3	1056.6	1021.4	983.7	943.6	912.4	872.3	809.4	740.0	674.7
42.5°	1224.5	1178.9	1134.8	1085.3	1032.8	985.2	944.6	900.5	828.2	744.0	660.8
45°	1331.0	1280.0	1213.1	1148.2	1081.8	1022.9	977.3	927.8	845.5	745.5	642.5
47.5°	1419.2	1366.6	1290.4	1209.1	1130.4	1063.5	1010.0	956.5	868.8	755.9	638.0
50°	1512.3	1448.4	1363.7	1267.6	1178.4	1103.6	1046.7	991.2	901.5	782.6	652.4
52.5°	1613.8	1540.5	1441.4	1334.0	1236.4	1152.7	1090.7	1033.8	943.1	820.3	679.6
55°	1737.7	1648.0	1540.5	1419.2	1314.6	1222.0	1153.7	1086.3	992.7	864.9	713.8
57.5°	1926.9	1816.9	1696.1	1557.9	1441.9	1332.5	1250.7	1173.0	1069.4	931.2	760.3
60°	2269.2	2151.8	1994.7	1827.3	1691.1	1563.3	1443.4	1346.8	1219.5	1062.0	863.4
62.5°	2759.5	2603.5	2394.0	2159.7	1981.4	1797.1	1661.9	1518.2	1360.2	1190.3	984.7
65°	3032.0	2842.8	2562.4	2290.5	2061.1	1861.0	1689.1	1522.7	1347.3	1184.9	1013.0
66°	3065.7	2868.5	2577.3	2291.0	2050.2	1844.7	1663.9	1491.5	1312.2	1157.1	1001.1
67.5°	3051.8	2850.2	2550.0	2247.9	2003.2	1782.2	1595.5	1416.7	1237.9	1093.2	961.5
70°	2824.4	2633.2	2338.5	2045.8	1813.4	1595.5	1417.2	1241.3	1077.4	953.5	856.4
72.5°	2345.4	2182.0	1925.9	1696.1	1513.8	1334.0	1182.9	1015.0	876.3	784.6	727.2
75°	1693.1	1594.0	1360.7	1228.9	1068.9	949.6	802.9	703.4	603.8	559.2	549.3
77.5°	1069.4	936.2	788.1	648.9	533.5	442.3	344.3	292.3	243.7	238.8	288.3
80°	541.4	487.4	375.5	299.2	251.6	203.6	161.0	121.9	85.2	102.5	122.8
82.5°	354.7	295.7	231.8	190.7	165.9	137.7	107.0	74.3	54.5	61.4	84.2
85°	191.7	163.5	131.8	104.0	84.2	75.3	50.5	35.7	35.2	37.6	48.0
87.5°	13.9	13.9	10.9	9.9	11.9	9.9	8.9	8.9	8.4	8.9	11.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9
2.5°	598.4	599.9	600.4	602.8	604.3	605.3	606.3	606.3	606.8	608.3	608.8
5°	609.8	612.2	615.2	617.2	618.2	621.2	622.1	622.1	623.1	625.1	626.6
7.5°	616.7	620.2	623.1	624.1	626.1	627.1	628.6	629.6	629.6	631.6	632.6
10°	619.2	621.2	624.1	624.1	626.1	626.1	627.6	628.1	628.1	630.1	631.6
12.5°	619.2	620.2	622.6	622.6	624.1	624.6	626.6	628.1	628.6	631.1	633.0
15°	616.2	617.2	619.2	619.7	623.1	625.1	629.6	632.6	632.6	635.0	636.0
17.5°	607.8	610.3	614.2	618.2	624.6	629.1	634.5	637.0	635.0	633.5	632.1
20°	593.9	598.4	607.8	617.7	629.1	635.0	638.0	635.5	628.6	621.7	617.2
22.5°	580.0	589.0	604.8	619.7	632.6	636.5	635.0	626.1	614.7	606.3	600.4
25°	586.5	596.9	612.2	625.6	634.0	633.0	627.1	614.7	602.3	591.4	581.5
27.5°	613.2	624.6	633.0	637.5	636.5	629.6	620.2	606.3	591.4	577.1	563.2
30°	638.5	644.4	646.4	643.0	635.0	623.6	611.7	595.9	576.1	558.3	542.4
32.5°	649.9	643.9	634.5	625.1	612.2	602.3	586.0	568.7	543.9	522.6	506.7
35°	649.9	626.1	602.3	582.5	563.2	550.8	532.0	508.7	485.9	468.1	455.7
37.5°	635.5	590.0	550.8	518.6	494.4	481.0	452.7	431.9	412.6	406.7	398.8
40°	609.3	541.9	485.4	443.3	412.6	392.8	364.6	350.2	342.8	339.8	338.3
42.5°	574.1	488.4	413.1	361.1	327.9	305.6	286.8	277.9	277.4	276.9	276.9
45°	536.5	430.9	342.8	280.9	251.6	231.8	222.9	219.4	222.4	221.9	222.4
47.5°	513.2	387.4	278.4	212.5	190.2	177.3	172.9	174.4	176.8	175.8	175.8
50°	510.2	365.1	235.3	165.4	148.6	142.2	141.2	141.2	142.7	141.7	141.2
52.5°	521.1	361.6	213.0	142.2	128.8	123.3	122.3	121.9	121.4	118.4	115.9
55°	539.9	369.5	206.6	136.2	122.3	116.4	114.9	113.9	111.9	108.0	103.5
57.5°	577.6	394.3	212.5	139.2	124.3	119.4	117.9	117.9	113.9	107.5	101.0
60°	668.2	457.2	236.8	150.6	133.7	128.8	129.8	129.3	123.3	113.9	104.0
62.5°	785.1	539.4	268.5	166.4	145.6	144.6	149.6	148.6	138.7	124.3	110.0
65°	839.1	578.1	277.4	169.9	148.1	152.6	162.5	161.5	149.1	129.3	111.0
66°	840.1	578.1	273.4	166.9	144.6	150.1	160.0	159.5	147.1	127.3	109.0
67.5°	819.8	562.2	262.0	161.0	137.7	141.7	150.6	150.1	138.7	122.3	105.0
70°	743.5	503.3	232.8	150.6	128.3	126.3	129.3	127.3	119.9	108.5	96.6
72.5°	637.0	422.5	203.1	142.7	121.9	113.9	111.9	110.5	104.5	98.1	90.6
75°	501.8	334.4	178.3	136.7	115.9	105.5	102.0	100.1	96.1	91.6	85.7
77.5°	309.6	239.3	155.5	128.8	111.5	101.0	98.6	95.6	89.7	84.2	79.8
80°	138.2	148.1	127.8	112.4	99.6	90.2	86.2	81.7	75.8	72.3	69.8
82.5°	92.1	95.6	92.6	84.2	75.3	67.9	61.9	61.9	60.9	58.0	57.0
85°	58.9	59.4	57.5	52.0	48.5	44.1	41.6	42.1	44.1	43.6	43.1
87.5°	13.4	13.4	15.9	14.9	17.3	18.3	19.8	21.3	24.3	24.3	25.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: ICS-F02-LED-E1-T4

**CANDELA DISTRIBUTION (continued):**

	160°	165°	170°	175°	180°
0°	591.9	591.9	591.9	591.9	591.9
2.5°	609.3	610.3	611.3	609.8	610.3
5°	626.6	626.1	628.6	627.1	628.1
7.5°	632.1	632.6	634.5	634.5	635.0
10°	632.6	633.5	636.0	637.5	638.5
12.5°	635.0	637.0	641.0	642.0	642.0
15°	637.0	638.0	640.5	641.5	642.5
17.5°	630.1	628.1	629.1	629.6	629.1
20°	612.7	610.8	610.3	608.3	609.3
22.5°	593.9	588.5	585.0	581.0	581.0
25°	571.1	562.7	555.8	548.8	550.3
27.5°	549.8	538.9	532.0	527.5	526.5
30°	529.0	517.6	511.2	505.7	505.7
32.5°	494.4	486.4	478.0	474.5	474.0
35°	446.3	441.3	434.4	432.9	430.5
37.5°	392.3	390.8	384.9	384.4	381.9
40°	335.8	336.8	334.9	333.9	332.4
42.5°	279.4	284.3	283.3	282.8	281.8
45°	225.4	228.8	229.3	230.8	233.3
47.5°	177.3	178.3	179.3	178.8	179.3
50°	138.7	136.2	135.7	134.2	135.7
52.5°	111.9	108.0	106.0	104.0	103.0
55°	98.6	94.6	92.6	91.6	90.6
57.5°	95.1	91.1	88.2	86.2	85.7
60°	96.1	90.2	86.2	83.7	83.2
62.5°	98.6	90.6	85.2	82.7	82.2
65°	98.1	89.7	84.7	81.7	81.2
66°	96.6	88.7	83.7	81.2	80.7
67.5°	94.1	87.2	82.7	80.7	79.8
70°	89.7	85.2	81.7	79.3	78.3
72.5°	85.7	82.2	79.3	76.8	76.3
75°	81.2	78.3	75.3	73.3	72.8
77.5°	75.8	72.8	70.8	69.3	68.9
80°	66.9	64.9	62.9	60.9	60.9
82.5°	55.5	54.0	52.0	50.5	50.0
85°	42.6	42.6	41.1	39.6	39.1
87.5°	25.3	24.8	24.8	23.3	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)