

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: P181628

Luminaire Tested: **ICM-E02-LED-E1-T4-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P181628  
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: ICM-E02-LED-E1-T4-7030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4  
Light Source: (42) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5135.3 lumens  
Efficiency: N/A  
Efficacy: 98.6 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 - G2

Input Watts (W): 52.1  
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

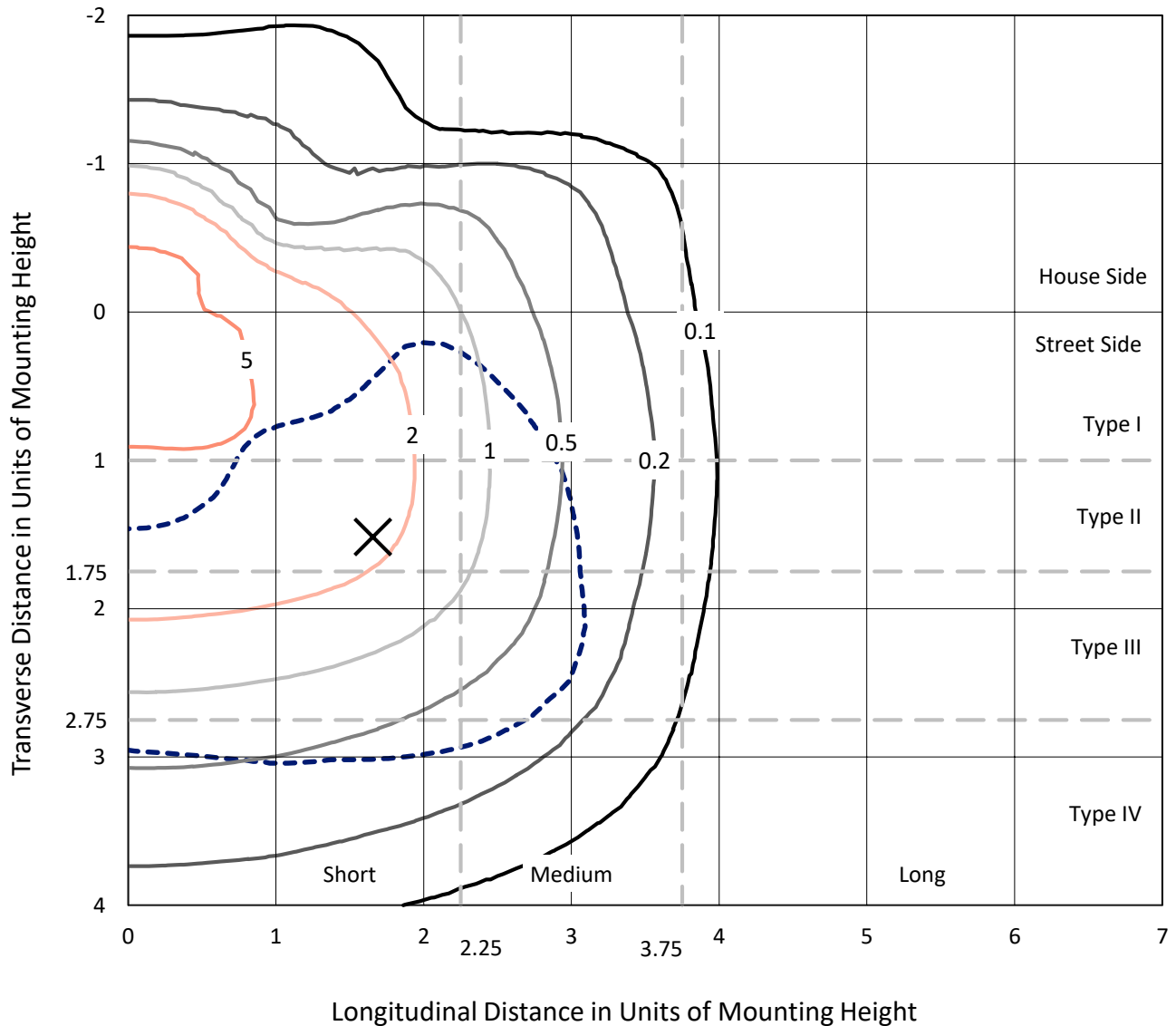


REPORT NUMBER: P181628

CATALOG NUMBER: ICM-E02-LED-E1-T4-7030

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

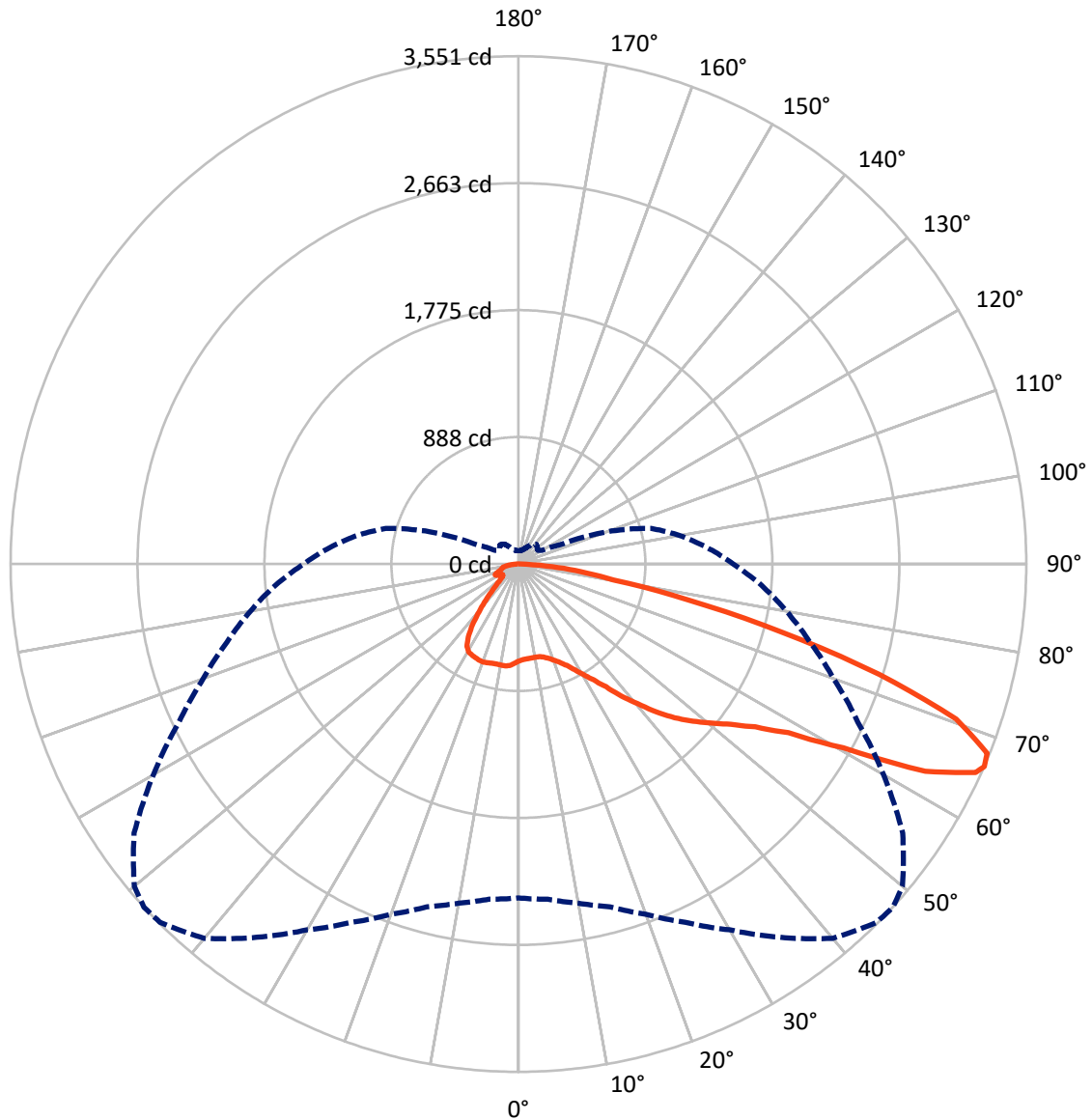


Based on 10 foot mounting height. Maximum calculated value = 7.1 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P181628

CATALOG NUMBER: ICM-E02-LED-E1-T4-7030

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P181628

CATALOG NUMBER: ICM-E02-LED-E1-T4-7030

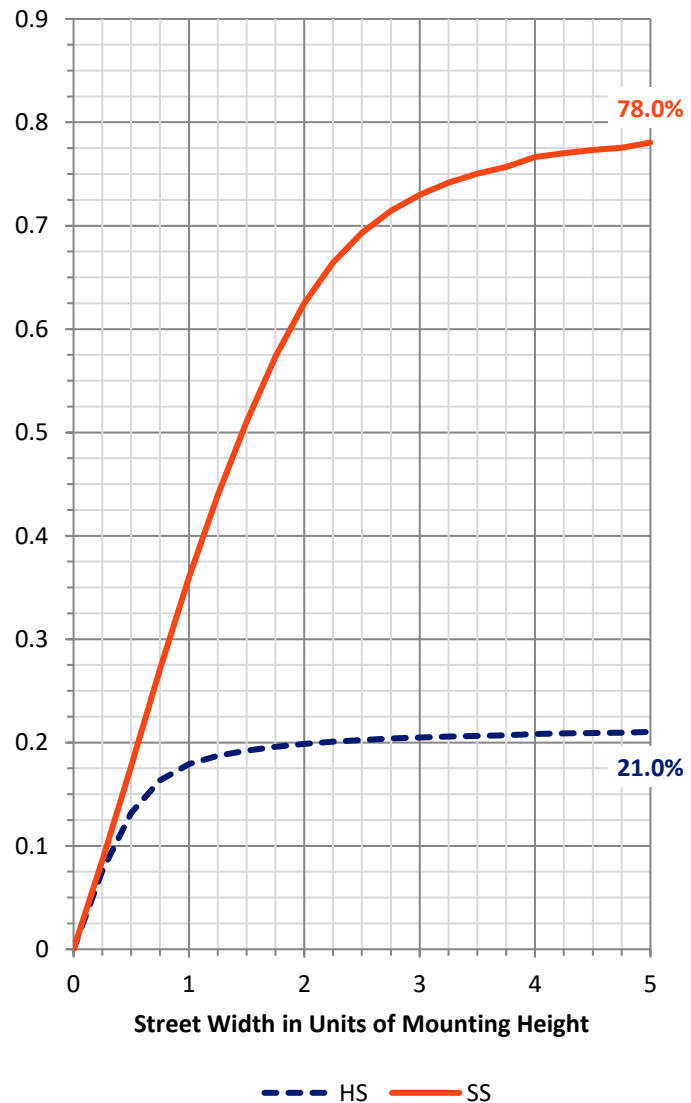
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1095.7	0.0	1095.7
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	4039.5	0.0	4039.5
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	5135.3	0.0	5135.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.7	1.3
10°-20°	199.6	3.9
20°-30°	343.7	6.7
30°-40°	520.0	10.1
40°-50°	674.1	13.1
50°-60°	929.3	18.1
60°-70°	1443.8	28.1
70°-80°	839.6	16.3
80°-90°	119.4	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°	5135.3	100.0
0°-180°	5135.3	100.0



REPORT NUMBER: P181628

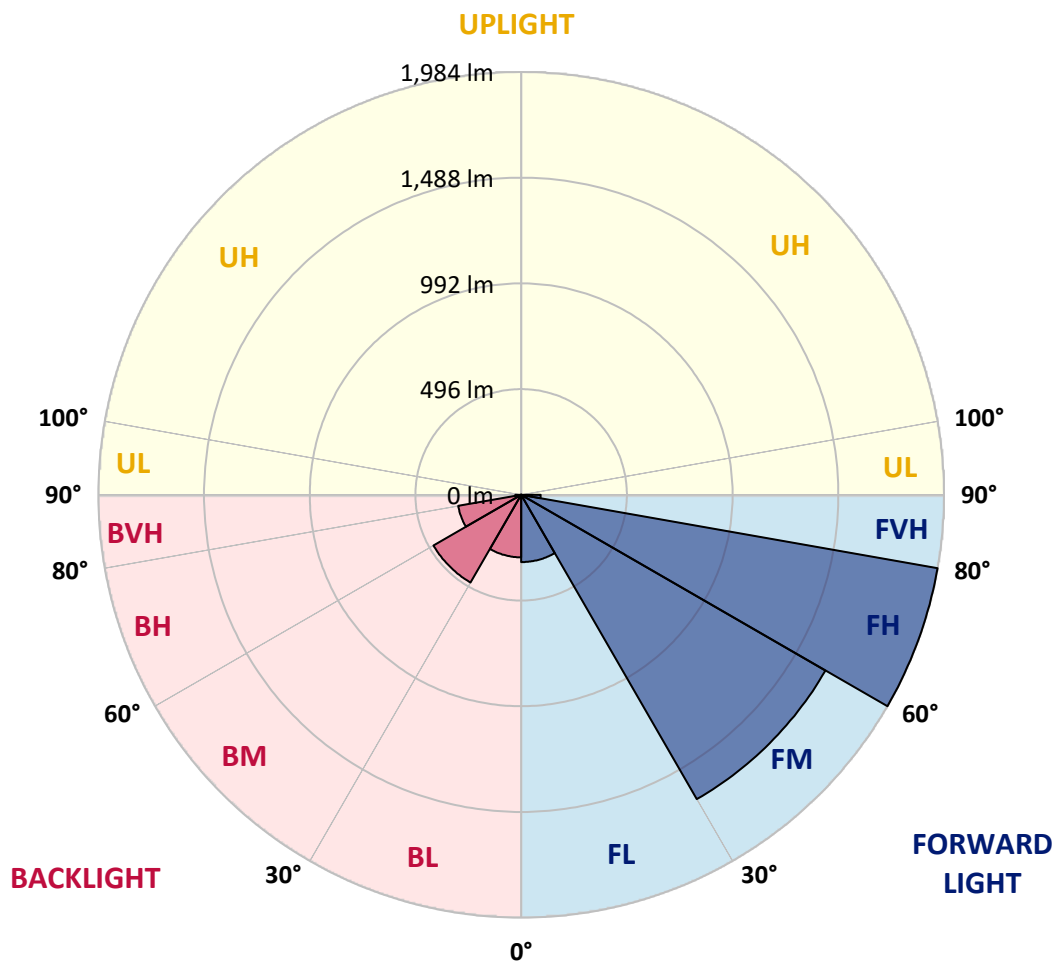
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	315.7	6.1			
FM	(30°-60°)	1648.4	32.1			
FH	(60°-80°)	1983.8	38.6			G2/5000
FVH	(80°-90°)	91.6	1.8			G1/100
BL	(0°-30°)	293.3	5.7	B1/500		
BM	(30°-60°)	475.0	9.2	B1/1000		
BH	(60°-80°)	299.7	5.8	B1/500		G1/500
BVH	(80°-90°)	27.8	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-G2**

Type IV Short





REPORT NUMBER: P181628

CATALOG NUMBER: ICM-E02-LED-E1-T4-7030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8
2.5°	664.4	666.7	664.9	665.6	665.6	666.1	666.1	666.7	666.1	667.8	668.9
5°	652.6	653.7	653.1	654.2	655.4	657.6	657.0	659.9	660.5	662.1	664.9
7.5°	648.0	646.9	647.4	649.1	650.2	651.4	652.6	654.8	656.5	660.5	662.7
10°	652.6	651.9	652.6	653.7	653.7	654.2	653.1	655.4	656.5	659.9	662.1
12.5°	671.2	671.2	670.1	670.1	668.9	667.8	664.9	663.3	662.7	663.3	664.4
15°	701.2	700.1	697.9	696.1	693.9	689.9	686.0	682.5	680.3	676.8	675.7
17.5°	730.7	729.0	726.7	724.5	721.6	717.7	711.4	707.4	701.2	697.3	695.0
20°	764.7	761.3	758.4	755.6	750.0	748.8	742.6	735.8	728.4	719.4	718.2
22.5°	808.8	803.2	799.8	798.1	792.5	790.7	780.6	770.9	761.9	750.0	747.1
25°	853.6	847.9	846.2	844.0	840.0	837.8	828.1	817.3	805.5	789.0	785.6
27.5°	897.2	897.8	893.2	895.0	893.8	889.9	880.2	869.5	860.4	841.1	837.2
30°	951.6	948.2	946.0	949.3	945.4	946.0	937.4	931.7	917.0	905.7	897.8
32.5°	1008.2	1007.6	1011.1	1013.3	1012.8	1011.6	1004.8	999.2	986.1	969.7	966.3
35°	1085.9	1089.2	1092.1	1102.2	1102.2	1109.6	1102.8	1096.0	1080.8	1060.9	1054.1
37.5°	1138.5	1139.6	1151.0	1164.6	1181.6	1197.4	1202.0	1203.6	1197.4	1182.7	1172.5
40°	1186.6	1188.9	1207.1	1228.0	1252.9	1284.1	1302.8	1311.3	1312.9	1306.1	1284.1
42.5°	1234.8	1238.2	1256.8	1287.4	1322.1	1361.7	1394.5	1415.5	1427.4	1427.4	1414.3
45°	1290.9	1295.4	1315.8	1349.2	1389.4	1439.3	1484.6	1524.8	1544.1	1545.2	1532.8
47.5°	1357.1	1361.1	1384.9	1418.9	1460.2	1510.6	1567.8	1613.8	1649.4	1651.7	1641.5
50°	1442.7	1448.4	1468.2	1498.8	1541.2	1592.2	1649.4	1713.4	1750.8	1759.9	1749.1
52.5°	1555.9	1557.1	1573.5	1601.9	1643.2	1691.9	1752.5	1822.2	1871.5	1878.8	1861.2
55°	1712.3	1710.6	1721.3	1751.9	1783.1	1821.0	1883.9	1962.1	2017.0	2028.4	2010.2
57.5°	1924.7	1923.0	1932.1	1939.5	1997.8	2034.6	2096.3	2171.1	2224.4	2257.2	2226.1
60°	2253.8	2252.1	2266.8	2309.9	2353.5	2407.3	2467.4	2556.9	2631.6	2641.2	2610.6
62.5°	2492.3	2500.8	2533.0	2583.5	2671.8	2777.1	2887.1	3004.9	3158.3	3207.1	3192.4
65°	2409.0	2426.0	2470.7	2547.2	2665.0	2810.6	2982.8	3196.3	3402.0	3517.0	3513.5
66°	2334.2	2352.9	2407.8	2481.5	2606.1	2765.3	2953.3	3186.2	3416.1	3543.0	3550.9
67.5°	2198.2	2219.3	2273.0	2360.3	2481.5	2650.9	2853.0	3106.3	3366.3	3514.1	3535.0
70°	1933.8	1957.6	1996.7	2068.6	2188.1	2339.4	2552.3	2778.9	3051.3	3220.7	3246.2
72.5°	1616.6	1637.5	1681.1	1740.0	1838.1	1933.2	2100.3	2267.4	2462.2	2655.4	2636.7
75°	1160.6	1169.7	1195.7	1259.7	1312.4	1398.0	1532.2	1669.2	1802.3	1890.7	1903.2
77.5°	603.3	627.1	663.8	734.6	791.8	868.9	956.1	1059.2	1156.7	1237.6	1215.5
80°	394.8	405.0	437.9	474.0	516.0	565.3	623.6	662.1	674.6	669.5	674.6
82.5°	227.7	246.4	290.0	317.8	348.9	365.9	412.4	456.6	481.5	450.3	439.0
85°	28.9	37.4	117.9	148.4	170.0	195.4	209.6	236.2	220.4	197.1	240.2
87.5°	6.2	5.7	7.9	17.0	17.6	14.7	27.7	29.5	18.1	9.0	11.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P181628

CATALOG NUMBER: ICM-E02-LED-E1-T4-7030

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8
2.5°	670.1	670.6	671.8	673.5	674.6	675.7	676.8	678.6	679.7	680.8	683.1
5°	667.3	669.5	671.8	674.1	676.8	681.4	684.3	686.5	688.7	693.3	695.0
7.5°	665.6	669.5	672.9	676.8	681.4	685.4	690.4	693.3	696.7	699.5	702.9
10°	664.4	670.1	673.5	679.2	684.3	688.2	693.9	697.3	701.2	704.7	706.3
12.5°	666.7	669.5	672.9	678.6	684.8	690.4	696.7	699.5	702.9	705.8	706.3
15°	676.3	676.3	676.8	681.4	687.6	692.2	697.3	700.1	701.8	703.5	703.5
17.5°	693.9	689.9	687.1	687.6	691.6	694.4	697.3	697.3	696.1	695.5	694.4
20°	714.2	709.1	703.5	699.5	698.4	696.1	694.4	688.7	684.3	680.3	677.4
22.5°	743.7	735.8	727.8	720.5	713.7	705.2	695.5	684.3	673.5	666.1	661.6
25°	780.0	773.8	764.1	752.7	744.3	728.4	715.9	699.5	686.0	676.3	668.4
27.5°	831.5	824.1	815.1	804.8	792.5	774.9	759.5	740.3	723.9	709.8	699.5
30°	895.5	885.9	879.1	866.6	858.1	838.3	823.0	799.3	767.5	744.8	730.7
32.5°	961.2	950.4	944.7	935.2	925.5	913.7	890.4	853.6	812.8	776.0	751.6
35°	1049.0	1037.7	1027.4	1019.0	1004.8	982.7	962.3	918.1	862.1	810.5	769.8
37.5°	1159.4	1140.8	1115.3	1093.8	1068.8	1037.1	1006.0	960.7	896.7	829.8	775.4
40°	1277.3	1244.5	1208.2	1168.0	1124.9	1079.1	1043.4	997.5	925.5	846.2	771.4
42.5°	1400.2	1348.1	1297.7	1241.0	1181.0	1126.6	1080.2	1029.8	947.1	850.8	755.6
45°	1522.0	1463.6	1387.2	1312.9	1237.0	1169.7	1117.6	1060.9	966.9	852.5	734.6
47.5°	1622.8	1562.8	1475.5	1382.6	1292.6	1216.1	1154.9	1093.8	993.5	864.4	729.6
50°	1729.3	1656.2	1559.4	1449.5	1347.5	1262.0	1196.8	1133.4	1030.9	895.0	746.0
52.5°	1845.4	1761.6	1648.3	1525.4	1413.8	1318.1	1247.3	1182.1	1078.4	938.0	777.1
55°	1987.0	1884.5	1761.6	1622.8	1503.3	1397.4	1319.2	1242.1	1135.1	988.9	816.2
57.5°	2203.4	2077.6	1939.5	1781.4	1648.8	1523.6	1430.2	1341.3	1222.9	1064.8	869.5
60°	2594.8	2460.6	2280.9	2089.5	1933.8	1787.6	1650.5	1540.1	1394.5	1214.4	987.3
62.5°	3155.6	2977.1	2737.5	2469.6	2265.7	2055.0	1900.4	1736.1	1555.4	1361.1	1126.1
65°	3467.1	3250.7	2930.1	2619.2	2356.9	2128.0	1931.5	1741.2	1540.7	1354.9	1158.3
66°	3505.6	3280.1	2947.1	2619.7	2344.4	2109.3	1902.6	1705.5	1500.5	1323.2	1144.8
67.5°	3489.7	3259.2	2915.9	2570.4	2290.6	2038.0	1824.5	1620.0	1415.5	1250.1	1099.4
70°	3229.7	3011.1	2674.1	2339.4	2073.7	1824.5	1620.6	1419.5	1232.0	1090.3	979.4
72.5°	2682.0	2495.1	2202.2	1939.5	1731.0	1525.4	1352.7	1160.6	1002.0	897.2	831.5
75°	1936.0	1822.7	1555.9	1405.3	1222.3	1085.9	918.1	804.3	690.4	639.4	628.2
77.5°	1222.9	1070.5	901.2	742.1	610.1	505.8	393.7	334.2	278.7	273.0	329.7
80°	619.1	557.4	429.3	342.1	287.7	232.8	184.1	139.3	97.4	117.2	140.5
82.5°	405.6	338.1	265.1	218.0	189.8	157.5	122.3	84.9	62.3	70.2	96.3
85°	219.2	186.9	150.7	119.0	96.3	86.1	57.8	40.7	40.2	43.1	55.0
87.5°	15.8	15.8	12.5	11.3	13.6	11.3	10.2	10.2	9.7	10.2	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P181628

CATALOG NUMBER: ICM-E02-LED-E1-T4-7030

**CANDELA DISTRIBUTION (continued):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8
2.5°	684.3	686.0	686.5	689.3	691.1	692.2	693.3	693.3	693.9	695.5	696.1
5°	697.3	700.1	703.5	705.8	706.9	710.3	711.4	711.4	712.6	714.8	716.6
7.5°	705.2	709.1	712.6	713.7	715.9	717.1	718.8	719.9	719.9	722.1	723.4
10°	708.0	710.3	713.7	713.7	715.9	715.9	717.7	718.2	718.2	720.5	722.1
12.5°	708.0	709.1	712.0	712.0	713.7	714.2	716.6	718.2	718.8	721.6	723.9
15°	704.7	705.8	708.0	708.6	712.6	714.8	719.9	723.4	723.4	726.1	727.3
17.5°	695.0	697.9	702.3	706.9	714.2	719.4	725.6	728.4	726.1	724.5	722.8
20°	679.2	684.3	695.0	706.3	719.4	726.1	729.6	726.7	718.8	710.9	705.8
22.5°	663.3	673.5	691.6	708.6	723.4	727.8	726.1	715.9	702.9	693.3	686.5
25°	670.6	682.5	700.1	715.4	725.0	723.9	717.1	702.9	688.7	676.3	664.9
27.5°	701.2	714.2	723.9	729.0	727.8	719.9	709.1	693.3	676.3	659.9	644.0
30°	730.1	736.9	739.2	735.3	726.1	713.1	699.5	681.4	658.8	638.3	620.2
32.5°	743.2	736.4	725.6	714.8	700.1	688.7	670.1	650.2	622.0	597.6	579.4
35°	743.2	715.9	688.7	666.1	644.0	629.9	608.4	581.7	555.6	535.3	521.1
37.5°	726.7	674.6	629.9	593.0	565.3	550.0	517.7	494.0	471.8	465.0	456.0
40°	696.7	619.6	555.1	507.0	471.8	449.2	416.9	400.5	392.0	388.6	386.9
42.5°	656.5	558.5	472.4	412.9	375.0	349.5	328.0	317.8	317.2	316.7	316.7
45°	613.4	492.7	392.0	321.1	287.7	265.1	254.9	250.9	254.3	253.8	254.3
47.5°	586.8	443.0	318.3	243.0	217.5	202.8	197.7	199.4	202.2	201.1	201.1
50°	583.4	417.5	269.0	189.2	170.0	162.6	161.4	161.4	163.2	162.0	161.4
52.5°	595.9	413.5	243.5	162.6	147.3	141.0	139.9	139.3	138.8	135.3	132.6
55°	617.4	422.5	236.2	155.7	139.9	133.1	131.4	130.2	128.0	123.4	118.4
57.5°	660.5	450.9	243.0	159.2	142.1	136.5	134.8	134.8	130.2	122.9	115.5
60°	764.1	522.8	270.8	172.2	152.9	147.3	148.4	147.8	141.0	130.2	119.0
62.5°	897.8	616.8	307.0	190.3	166.5	165.4	171.1	170.0	158.6	142.1	125.8
65°	959.5	661.0	317.2	194.3	169.4	174.4	185.8	184.7	170.5	147.8	126.9
66°	960.7	661.0	312.7	190.9	165.4	171.6	183.0	182.4	168.2	145.6	124.7
67.5°	937.4	642.9	299.6	184.1	157.5	162.0	172.2	171.6	158.6	139.9	120.1
70°	850.2	575.4	266.2	172.2	146.7	144.5	147.8	145.6	137.1	124.0	110.4
72.5°	728.4	483.2	232.2	163.2	139.3	130.2	128.0	126.3	119.5	112.2	103.6
75°	573.8	382.3	203.9	156.4	132.6	120.7	116.7	114.4	109.9	104.7	98.0
77.5°	354.0	273.6	177.9	147.3	127.4	115.5	112.7	109.3	102.5	96.3	91.2
80°	158.0	169.4	146.1	128.6	113.9	103.1	98.5	93.5	86.7	82.7	79.9
82.5°	105.4	109.3	106.0	96.3	86.1	77.6	70.8	70.8	69.7	66.2	65.1
85°	67.4	68.0	65.7	59.4	55.5	50.4	47.5	48.2	50.4	49.9	49.3
87.5°	15.3	15.3	18.1	17.0	19.8	20.9	22.7	24.4	27.7	27.7	29.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P181628

CATALOG NUMBER: ICM-E02-LED-E1-T4-7030

**CANDELA DISTRIBUTION (continued):**

	160°	165°	170°	175°	180°
0°	676.8	676.8	676.8	676.8	676.8
2.5°	696.7	697.9	699.0	697.3	697.9
5°	716.6	715.9	718.8	717.1	718.2
7.5°	722.8	723.4	725.6	725.6	726.1
10°	723.4	724.5	727.3	729.0	730.1
12.5°	726.1	728.4	732.9	734.1	734.1
15°	728.4	729.6	732.4	733.5	734.6
17.5°	720.5	718.2	719.4	719.9	719.4
20°	700.7	698.4	697.9	695.5	696.7
22.5°	679.2	672.9	668.9	664.4	664.4
25°	653.1	643.4	635.5	627.6	629.3
27.5°	628.7	616.3	608.4	603.3	602.1
30°	604.9	591.9	584.6	578.3	578.3
32.5°	565.3	556.2	546.6	542.6	542.0
35°	510.3	504.7	496.7	495.1	492.2
37.5°	448.6	446.9	440.1	439.5	436.7
40°	384.0	385.2	382.9	381.8	380.1
42.5°	319.4	325.1	324.0	323.4	322.3
45°	257.7	261.7	262.2	263.9	266.8
47.5°	202.8	203.9	205.0	204.5	205.0
50°	158.6	155.7	155.2	153.5	155.2
52.5°	128.0	123.4	121.2	119.0	117.9
55°	112.7	108.2	106.0	104.7	103.6
57.5°	108.7	104.2	100.8	98.5	98.0
60°	109.9	103.1	98.5	95.7	95.2
62.5°	112.7	103.6	97.4	94.6	94.0
65°	112.2	102.5	96.8	93.5	92.9
66°	110.4	101.4	95.7	92.9	92.4
67.5°	107.6	99.7	94.6	92.4	91.2
70°	102.5	97.4	93.5	90.6	89.5
72.5°	98.0	94.0	90.6	87.8	87.3
75°	92.9	89.5	86.1	83.8	83.3
77.5°	86.7	83.3	81.0	79.3	78.7
80°	76.5	74.2	71.9	69.7	69.7
82.5°	63.4	61.8	59.4	57.8	57.2
85°	48.7	48.7	47.0	45.3	44.7
87.5°	28.9	28.3	28.3	26.6	26.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)