

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: P181427

Luminaire Tested: **ICM-E02-LED-E1-T3-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P181427  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)  
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-T3-8030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3  
Light Source: (42) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4842.5 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B2 - 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

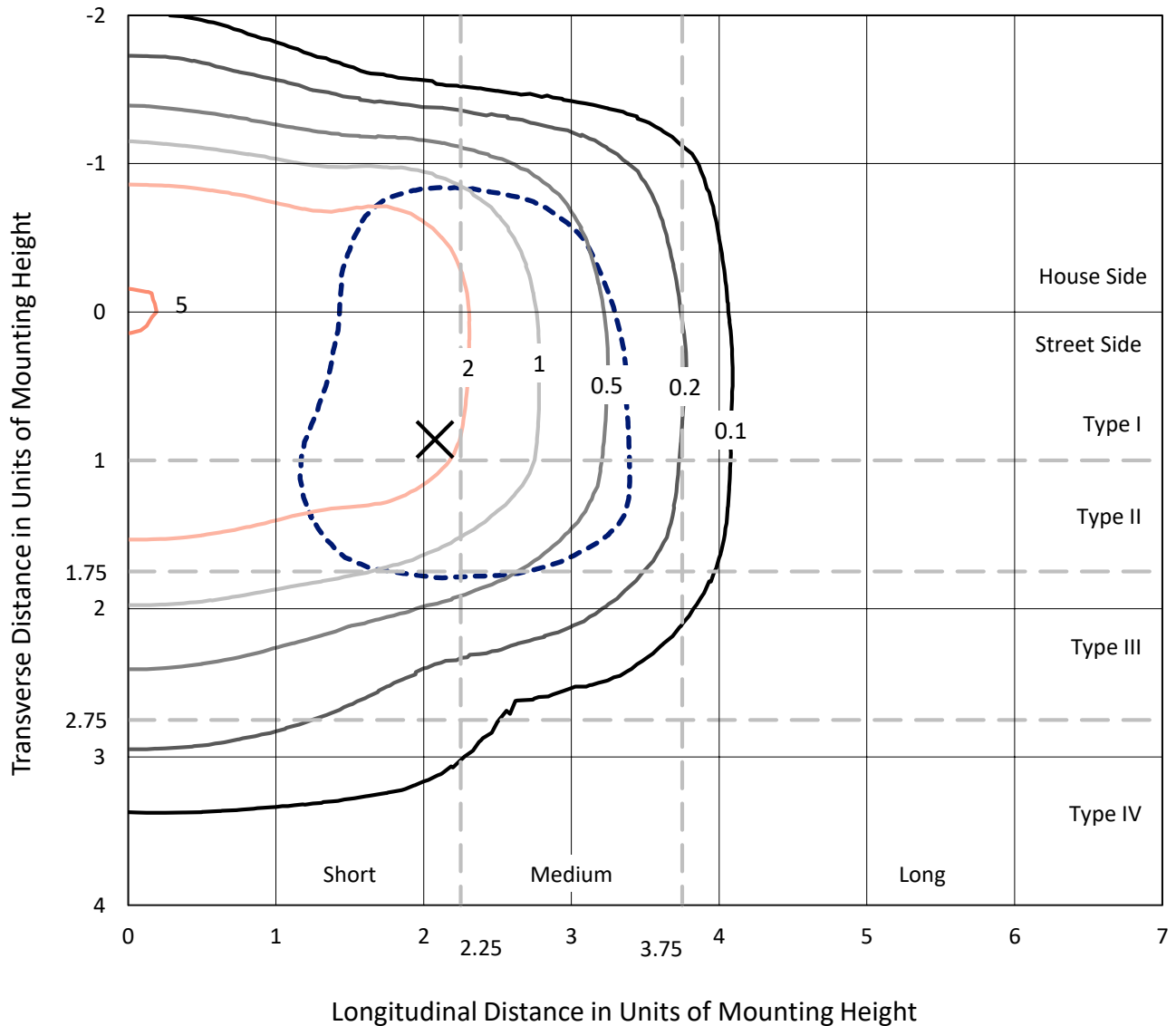


REPORT NUMBER: P181427

CATALOG NUMBER: ICM-E02-LED-E1-T3-8030

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

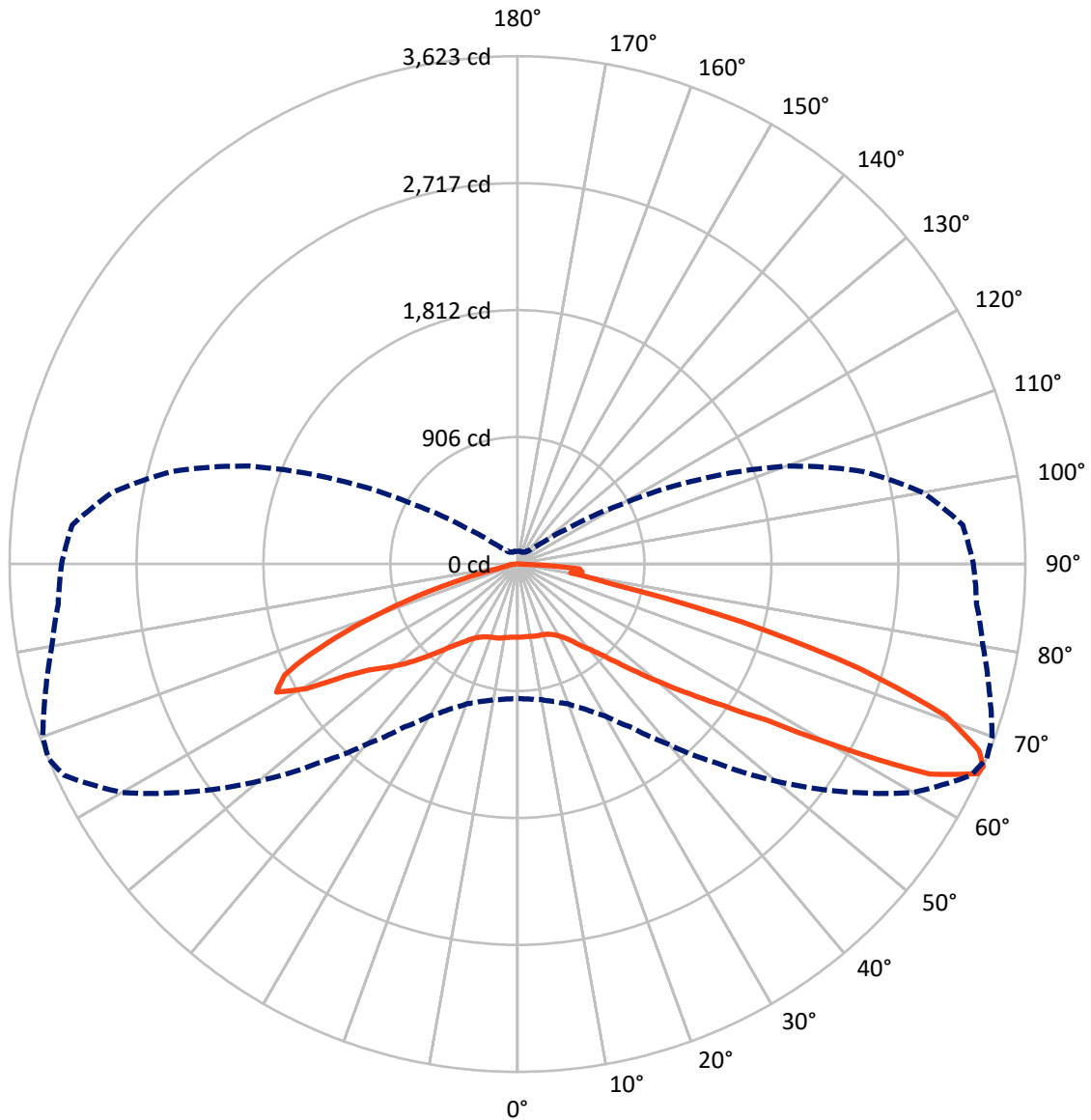


Based on 10 foot mounting height. Maximum calculated value = 5.2 fc  
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P181427

CATALOG NUMBER: ICM-E02-LED-E1-T3-8030

### Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P181427

CATALOG NUMBER: ICM-E02-LED-E1-T3-8030

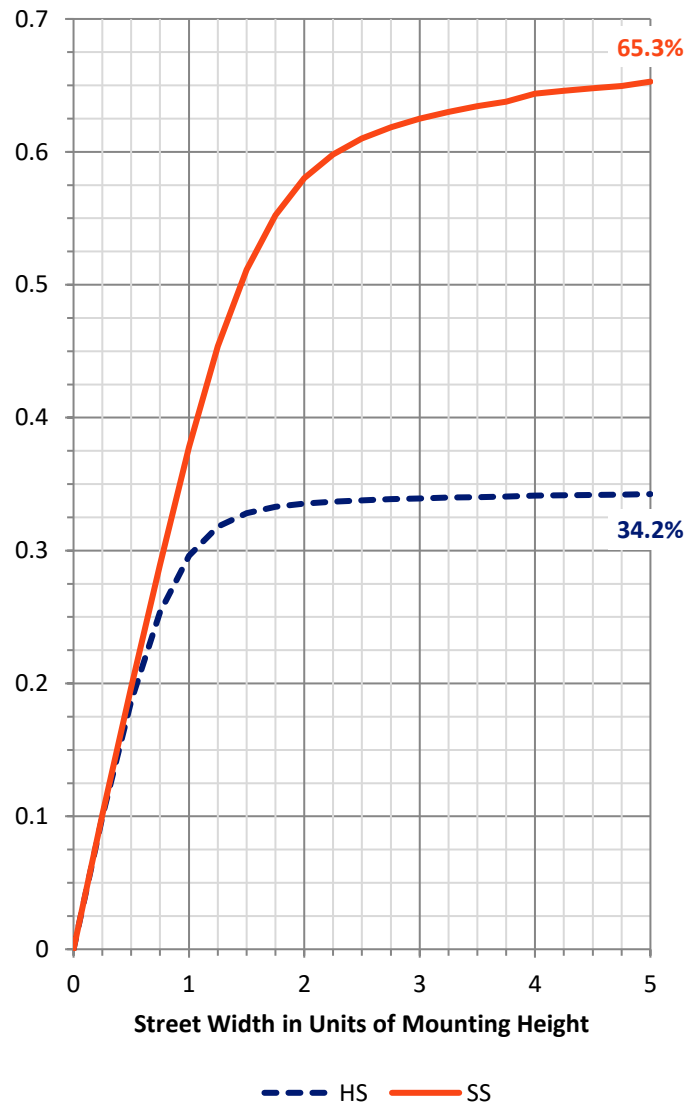
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1672.3	0.0	1672.3
	% Fixture	34.5	0.0	34.5
<b>Street Side</b>	Lumens	3170.2	0.0	3170.2
	% Fixture	65.5	0.0	65.5
<b>Total</b>	Lumens	4842.5	0.0	4842.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.0	1.0
10°-20°	147.5	3.0
20°-30°	253.5	5.2
30°-40°	411.6	8.5
40°-50°	687.2	14.2
50°-60°	1082.1	22.3
60°-70°	1475.6	30.5
70°-80°	638.8	13.2
80°-90°	96.1	2.0
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°	4842.5	100.0
0°-180°	4842.5	100.0



REPORT NUMBER: P181427

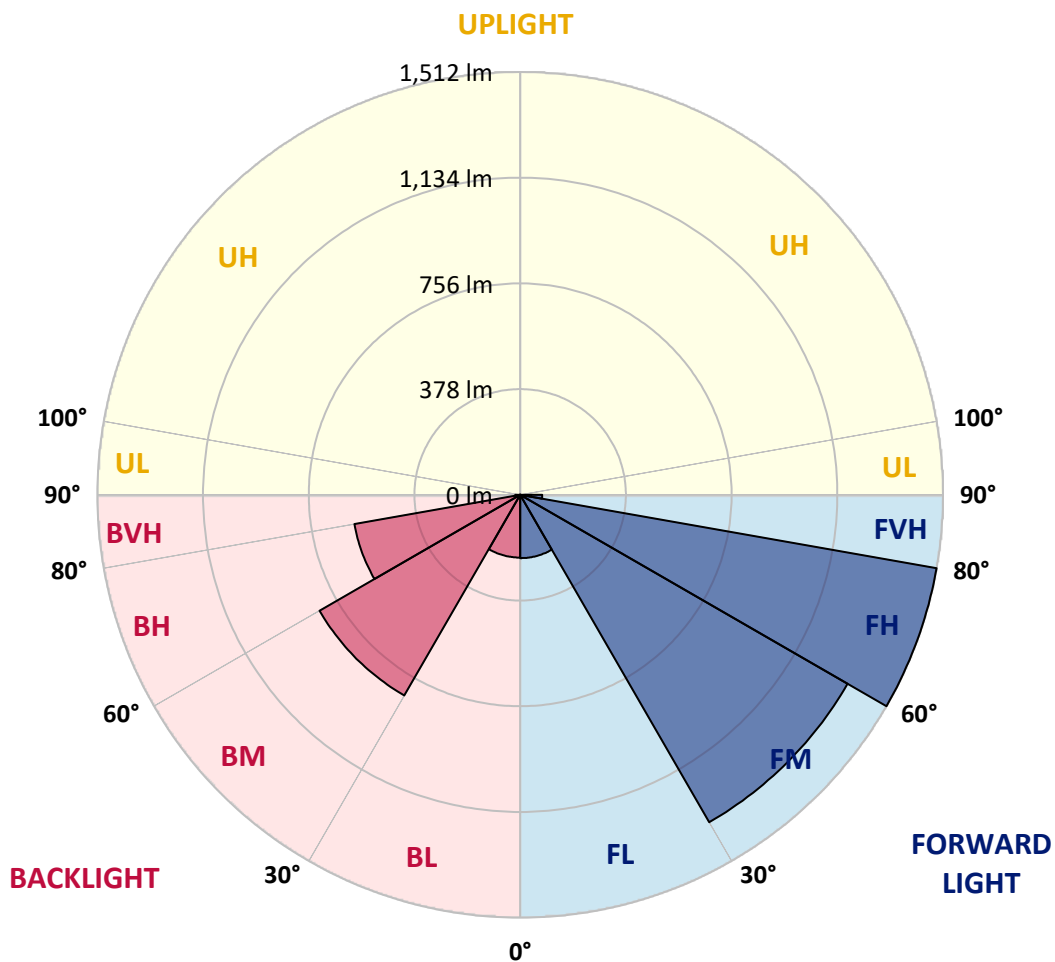
CATALOG NUMBER: ICM-E02-LED-E1-T3-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	226.5	4.7			
FM	(30°-60°)	1352.3	27.9			
FH	(60°-80°)	1512.5	31.2			G1/1800
FVH	(80°-90°)	78.9	1.6			G1/100
BL	(0°-30°)	224.5	4.6	B1/500		
BM	(30°-60°)	828.7	17.1	B1/1000		
BH	(60°-80°)	601.9	12.4	B2/1000		G2/1000
BVH	(80°-90°)	17.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





REPORT NUMBER: P181427

CATALOG NUMBER: ICM-E02-LED-E1-T3-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9
2.5°	523.9	526.0	523.9	524.5	524.9	524.5	523.9	523.9	522.3	523.4	524.5
5°	521.9	523.4	522.9	523.4	523.9	523.4	522.9	523.4	522.3	522.9	524.5
7.5°	519.3	518.7	519.3	520.3	521.3	521.3	521.3	521.9	521.3	521.3	522.9
10°	511.4	511.9	512.9	514.5	515.1	516.6	516.6	518.1	518.7	519.7	521.9
12.5°	501.4	502.0	503.0	504.0	506.7	509.3	509.3	512.9	514.5	517.1	520.7
15°	494.1	494.6	495.6	496.7	498.8	501.4	503.0	507.2	509.8	514.5	519.7
17.5°	498.3	497.8	498.8	499.4	499.4	501.4	501.4	504.6	507.7	511.9	518.7
20°	510.3	510.3	511.4	511.4	510.9	511.9	509.8	509.8	510.3	512.4	517.1
22.5°	522.3	521.9	523.9	524.9	525.5	527.1	524.9	524.5	521.9	520.3	521.9
25°	533.9	533.4	536.0	537.6	540.2	541.8	541.8	541.8	539.6	537.0	535.4
27.5°	551.6	551.6	554.3	555.8	558.0	561.1	562.7	562.7	563.2	559.5	556.9
30°	581.5	582.1	582.5	584.7	586.7	587.8	589.9	591.4	593.0	590.9	586.7
32.5°	617.1	614.0	614.0	617.1	619.7	622.9	623.9	626.0	629.1	627.5	627.1
35°	659.5	658.4	657.4	658.4	661.6	665.2	669.4	673.1	671.0	674.1	672.6
37.5°	722.3	723.4	723.9	723.9	723.4	724.4	726.5	730.1	729.1	730.1	732.3
40°	826.0	822.2	818.6	819.2	813.9	815.0	806.6	810.2	810.8	807.1	808.7
42.5°	929.6	931.6	933.2	937.4	933.8	931.6	923.8	923.8	919.6	916.0	914.9
45°	1041.6	1045.8	1046.3	1054.7	1051.5	1058.3	1064.1	1062.5	1055.7	1055.2	1047.8
47.5°	1131.1	1137.9	1145.2	1155.2	1163.0	1178.1	1196.0	1204.8	1210.1	1214.3	1206.0
50°	1198.1	1201.2	1220.1	1235.7	1253.0	1278.1	1302.8	1334.7	1360.4	1372.4	1383.9
52.5°	1234.2	1242.1	1262.4	1287.1	1317.4	1355.1	1394.9	1445.7	1489.6	1518.9	1545.1
55°	1242.1	1249.9	1272.9	1304.4	1345.7	1396.5	1453.5	1522.6	1588.6	1645.0	1700.0
57.5°	1220.1	1228.9	1253.6	1289.7	1338.3	1400.1	1471.8	1562.3	1653.4	1745.0	1826.2
60°	1179.7	1190.8	1213.2	1248.8	1302.8	1372.4	1458.2	1571.8	1699.5	1839.8	1995.3
62.5°	1113.3	1124.8	1145.8	1185.0	1240.5	1317.4	1416.8	1558.1	1738.8	1959.6	2235.5
65°	1006.5	1011.7	1037.4	1077.2	1126.3	1211.2	1320.6	1491.2	1726.2	2033.4	2413.4
66°	958.3	967.3	983.0	1014.9	1062.0	1141.6	1251.4	1424.8	1678.6	2007.8	2408.8
67.5°	883.0	889.8	900.3	921.7	950.5	1009.1	1113.3	1277.1	1533.0	1878.0	2308.8
70°	714.0	717.0	731.2	738.5	748.5	767.8	805.5	899.7	1099.2	1423.2	1863.4
72.5°	486.8	495.6	510.9	531.8	559.0	585.2	603.0	615.0	658.0	848.9	1241.5
75°	356.9	366.4	385.8	413.5	461.1	515.5	572.1	598.2	580.5	555.8	691.4
77.5°	207.3	219.8	236.1	262.8	306.7	379.0	475.8	561.6	619.7	623.4	592.0
80°	87.4	89.0	98.9	112.6	139.7	190.5	265.9	389.4	518.1	605.0	625.5
82.5°	19.9	24.6	31.4	37.1	45.6	62.8	93.2	154.9	280.0	439.2	572.7
85°	7.3	7.3	10.0	14.7	16.7	18.9	24.6	39.3	67.0	123.5	257.5
87.5°	0.0	0.6	1.0	1.0	2.1	2.6	4.2	5.8	5.2	4.7	15.7
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: P181427

CATALOG NUMBER: ICM-E02-LED-E1-T3-8030

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9
2.5°	523.4	522.9	521.9	521.9	521.9	521.9	520.7	521.3	520.3	520.7	520.7
5°	522.9	522.9	522.3	521.3	521.9	521.9	522.3	521.3	521.3	521.9	521.3
7.5°	522.9	522.3	522.3	522.3	522.9	522.3	522.9	522.9	522.9	523.4	523.4
10°	522.9	522.9	523.9	524.5	524.5	524.9	526.5	526.5	527.1	527.6	528.7
12.5°	523.4	525.5	527.1	528.7	529.1	530.2	532.8	532.8	533.9	535.4	536.0
15°	523.9	527.1	530.2	531.3	532.3	534.4	537.0	538.0	539.6	541.2	542.2
17.5°	523.4	527.6	531.3	532.8	534.4	537.0	540.2	541.2	543.3	545.4	547.4
20°	522.9	528.7	534.4	536.5	538.6	542.2	546.4	549.0	551.2	554.3	556.4
22.5°	526.0	532.8	540.7	543.8	547.4	552.2	558.0	561.1	563.7	566.9	568.4
25°	536.0	541.2	550.6	555.8	560.6	568.4	576.3	579.9	583.1	585.7	586.2
27.5°	552.7	554.3	565.8	572.7	579.4	592.0	601.4	604.0	609.8	611.9	611.4
30°	579.9	577.3	586.7	597.2	607.2	624.5	635.9	642.7	648.0	648.0	643.8
32.5°	619.2	615.0	617.6	629.7	641.2	666.3	679.9	688.8	692.5	691.4	682.5
35°	670.5	667.9	666.3	675.7	694.1	723.4	741.1	745.9	751.6	750.6	739.1
37.5°	731.2	729.1	729.1	740.1	757.9	801.3	820.7	823.8	823.4	815.0	793.5
40°	802.9	801.9	797.1	803.4	818.6	875.2	901.3	905.5	899.7	886.1	861.0
42.5°	906.1	899.7	885.1	888.7	900.3	955.3	989.2	1000.8	995.0	981.4	940.6
45°	1040.6	1033.8	1009.1	1006.0	1012.3	1060.5	1104.4	1107.0	1106.0	1088.7	1040.6
47.5°	1198.6	1188.1	1162.0	1153.6	1151.5	1196.0	1238.4	1242.6	1239.9	1214.3	1150.0
50°	1369.8	1354.6	1337.3	1331.5	1323.2	1355.1	1398.1	1398.5	1388.1	1352.5	1292.3
52.5°	1552.5	1547.2	1544.0	1538.3	1534.6	1562.3	1588.6	1572.8	1557.1	1520.0	1467.6
55°	1736.7	1758.2	1780.1	1782.2	1788.5	1818.3	1817.8	1774.9	1763.4	1743.0	1691.2
57.5°	1932.4	2012.0	2081.0	2102.5	2123.5	2179.0	2173.7	2131.4	2116.7	2091.5	2048.7
60°	2198.8	2413.4	2612.9	2660.5	2693.5	2759.9	2753.7	2688.2	2718.6	2716.5	2661.0
62.5°	2572.0	2928.9	3227.8	3301.1	3324.2	3331.5	3291.7	3221.0	3250.9	3284.4	3113.8
65°	2824.9	3244.6	3551.4	3607.8	3611.0	3523.6	3435.1	3351.9	3344.6	3315.8	3071.9
66°	2830.6	3260.3	3568.1	3623.0	3603.6	3484.3	3372.3	3288.6	3252.5	3189.1	2936.3
67.5°	2729.0	3162.4	3493.8	3551.8	3509.4	3340.4	3186.0	3078.2	3007.5	2904.9	2682.0
70°	2292.0	2721.7	3130.0	3238.3	3251.9	2999.6	2785.6	2658.9	2563.6	2422.9	2230.8
72.5°	1704.2	2092.6	2452.7	2556.3	2609.2	2407.6	2227.1	2130.8	2000.5	1852.4	1715.7
75°	1068.3	1342.5	1583.8	1656.6	1606.9	1450.9	1342.5	1302.2	1174.0	1085.6	1023.3
77.5°	610.8	696.7	716.0	688.3	629.7	482.0	342.8	253.9	220.4	243.9	269.0
80°	596.2	546.4	435.4	383.2	347.0	238.7	140.3	96.3	80.1	82.1	89.0
82.5°	645.9	693.0	570.5	465.3	390.4	263.8	145.5	77.5	52.4	61.8	69.6
85°	419.8	584.1	526.0	443.4	359.1	225.6	119.8	40.3	26.7	35.1	48.2
87.5°	42.4	46.6	39.8	54.0	40.3	18.9	9.4	5.8	5.2	6.3	9.4
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: P181427

CATALOG NUMBER: ICM-E02-LED-E1-T3-8030

**CANDELA DISTRIBUTION (continued):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9
2.5°	521.3	521.3	521.9	522.3	522.9	523.4	523.4	523.4	523.4	524.5	523.9
5°	522.3	523.4	524.5	524.9	526.0	526.0	527.6	527.1	527.1	528.7	529.1
7.5°	524.5	526.0	528.1	527.6	529.7	529.1	530.2	530.2	528.7	529.1	528.1
10°	529.1	531.3	532.3	530.7	531.3	529.1	528.7	526.0	522.9	521.3	519.3
12.5°	537.0	539.1	539.1	536.5	533.4	528.7	524.9	519.3	514.5	511.9	509.3
15°	543.8	546.0	545.4	541.2	536.5	529.1	523.9	517.1	510.3	506.1	503.5
17.5°	549.0	550.1	548.6	542.8	537.6	530.7	525.5	518.1	510.3	505.1	500.4
20°	556.9	555.8	552.2	544.8	539.1	532.8	528.7	522.3	513.5	506.7	499.8
22.5°	568.4	564.2	557.4	549.6	543.8	538.0	533.9	527.1	518.1	509.8	502.0
25°	583.6	575.3	565.8	557.4	552.2	546.0	541.2	533.9	524.5	515.1	505.6
27.5°	605.6	590.9	578.9	571.5	565.8	558.0	552.2	542.8	532.8	521.9	511.4
30°	630.1	610.3	598.8	593.0	586.7	578.3	569.5	557.4	546.0	533.9	521.3
32.5°	662.1	638.1	627.1	621.3	612.9	602.4	592.0	578.3	562.1	546.4	531.3
35°	704.0	679.4	667.9	659.0	647.4	633.9	618.7	600.4	578.3	557.4	538.0
37.5°	749.0	722.3	711.4	701.9	684.7	666.8	645.4	618.7	588.8	561.1	537.0
40°	806.1	781.5	767.4	751.1	730.7	699.8	666.3	627.5	589.4	555.4	527.1
42.5°	878.2	853.7	832.7	807.1	771.5	723.9	676.3	626.0	579.9	541.2	510.9
45°	974.1	944.2	908.1	863.1	805.5	739.1	676.7	616.1	562.1	519.3	486.8
47.5°	1091.3	1045.8	986.6	910.7	828.0	743.3	668.4	596.2	534.4	487.8	451.7
50°	1230.5	1158.8	1061.5	950.0	839.5	736.9	647.4	566.3	495.2	445.4	402.5
52.5°	1389.7	1272.4	1129.0	978.2	839.0	716.0	611.9	521.3	443.8	388.4	347.5
55°	1576.5	1402.2	1198.6	999.2	824.4	677.3	557.4	458.0	380.6	329.2	291.5
57.5°	1850.2	1612.7	1320.0	1031.6	795.1	617.6	483.6	382.0	314.0	265.4	233.4
60°	2350.6	1963.8	1538.8	1097.0	750.1	530.2	397.3	300.9	243.9	204.7	183.2
62.5°	2727.5	2235.5	1657.1	1082.4	659.5	422.4	294.7	219.4	179.5	152.8	139.3
65°	2673.6	2151.2	1531.0	932.2	517.1	297.9	195.7	149.2	123.5	111.0	103.1
66°	2551.6	2041.3	1421.6	839.0	447.0	247.5	161.2	125.1	106.2	97.4	92.1
67.5°	2320.3	1837.1	1225.9	687.7	343.4	179.5	121.4	98.9	86.3	82.7	79.1
70°	1928.8	1465.0	860.5	400.4	175.3	100.0	76.9	69.1	66.0	65.4	64.4
72.5°	1478.1	1036.8	506.7	189.5	91.1	66.5	59.6	57.0	56.0	56.0	56.6
75°	906.1	582.5	224.0	92.7	63.8	56.0	52.8	51.8	51.3	51.8	51.3
77.5°	302.5	185.3	95.8	70.1	58.1	51.8	49.8	48.7	48.7	48.7	48.7
80°	92.7	80.6	73.3	64.9	55.0	49.2	46.0	45.6	46.0	46.6	45.0
82.5°	69.6	66.0	61.8	57.6	49.8	44.0	42.9	42.9	42.9	41.4	39.3
85°	51.3	50.8	41.9	39.3	36.7	36.7	36.7	36.7	35.1	32.5	30.3
87.5°	9.4	8.9	9.4	10.0	14.7	15.7	15.7	16.7	18.3	17.3	17.3
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: P181427

CATALOG NUMBER: ICM-E02-LED-E1-T3-8030

**CANDELA DISTRIBUTION (continued):**

	160°	165°	170°	175°	180°
0°	521.9	521.9	521.9	521.9	521.9
2.5°	523.9	523.4	524.9	523.9	524.5
5°	528.7	528.1	529.1	528.1	529.7
7.5°	527.1	526.0	525.5	526.0	526.5
10°	516.1	515.1	514.5	514.0	514.5
12.5°	506.7	504.6	504.6	503.5	504.0
15°	499.8	498.3	497.8	496.7	497.2
17.5°	496.7	494.1	493.0	492.0	492.0
20°	494.6	491.4	490.0	488.8	488.4
22.5°	494.6	490.0	487.8	486.8	486.2
25°	496.7	491.0	487.8	486.2	485.7
27.5°	500.9	493.6	490.0	487.8	487.8
30°	508.2	498.8	493.6	491.0	490.4
32.5°	515.5	503.0	495.6	492.6	491.4
35°	519.3	503.0	494.1	488.8	487.8
37.5°	515.1	496.2	485.2	477.3	475.8
40°	502.0	482.0	470.0	462.7	461.7
42.5°	484.7	465.3	451.2	446.0	444.4
45°	461.1	438.0	424.0	416.7	417.1
47.5°	420.8	397.3	384.7	377.9	379.0
50°	373.2	350.1	339.2	331.8	333.4
52.5°	320.8	299.9	289.5	285.8	284.7
55°	265.9	249.7	242.3	238.1	236.6
57.5°	215.6	204.1	198.9	193.7	194.1
60°	170.1	164.4	162.8	157.0	156.5
62.5°	134.0	130.3	128.7	124.6	125.1
65°	101.6	100.5	101.6	98.9	100.0
66°	91.6	92.1	92.1	90.5	91.6
67.5°	79.1	80.1	81.7	80.1	81.1
70°	65.4	66.5	67.5	67.5	67.5
72.5°	57.0	58.1	58.6	58.6	58.6
75°	52.4	52.8	53.4	52.4	52.4
77.5°	49.2	49.2	48.2	47.6	47.1
80°	44.5	44.0	42.4	41.4	41.4
82.5°	37.1	36.1	35.1	33.5	33.5
85°	28.3	27.3	26.1	24.1	23.1
87.5°	14.7	15.2	14.7	12.0	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)