

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: P140747

Luminaire Tested: **ECM-F01-LED-E1-RW-7060**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140747
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33689)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-F01-LED-E1-RW-7060
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (7) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2505.1 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): 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

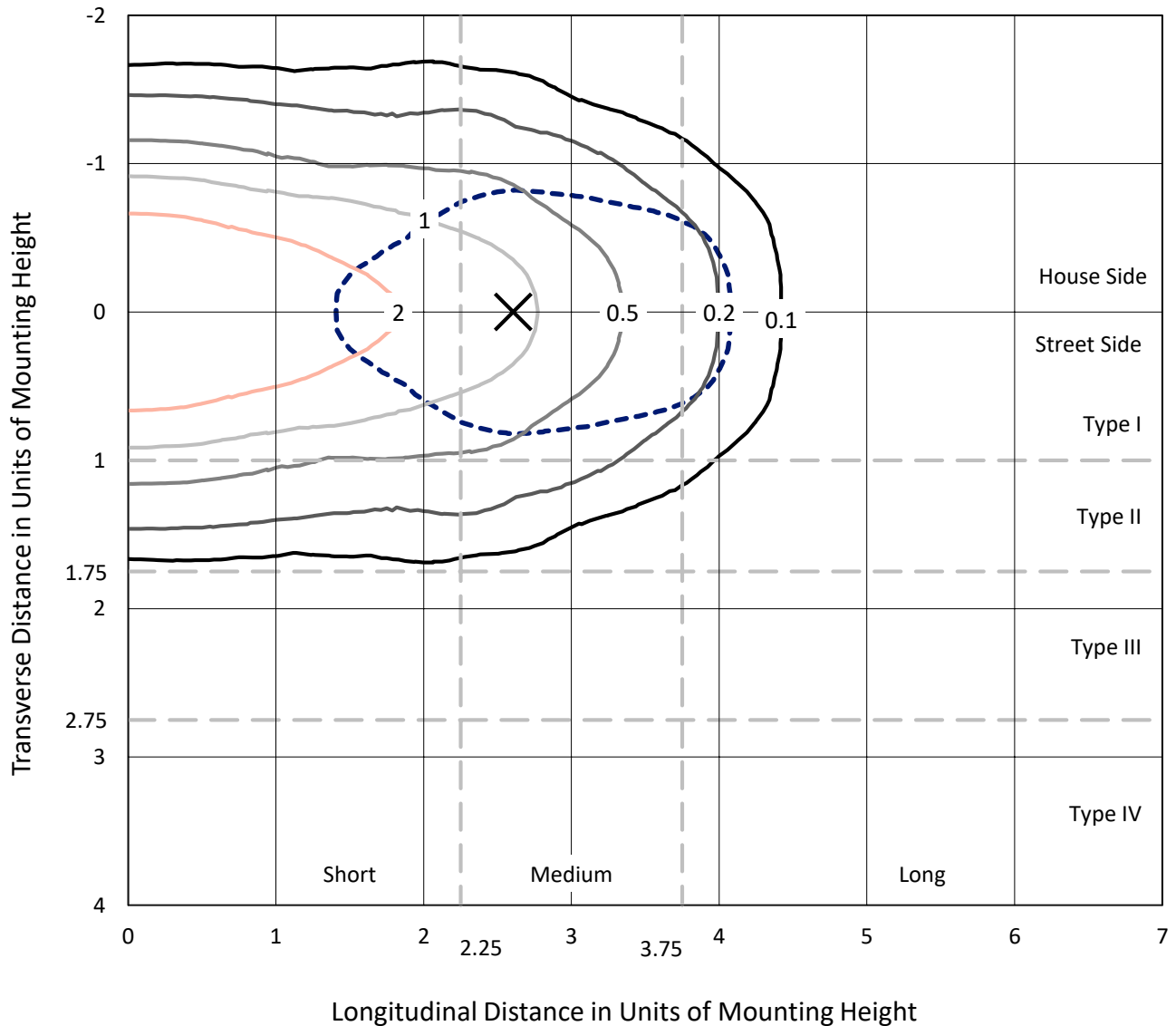


REPORT NUMBER: P140747

CATALOG NUMBER: ECM-F01-LED-E1-RW-7060

Iso-Footcandle Lines of Horizontal Illumination

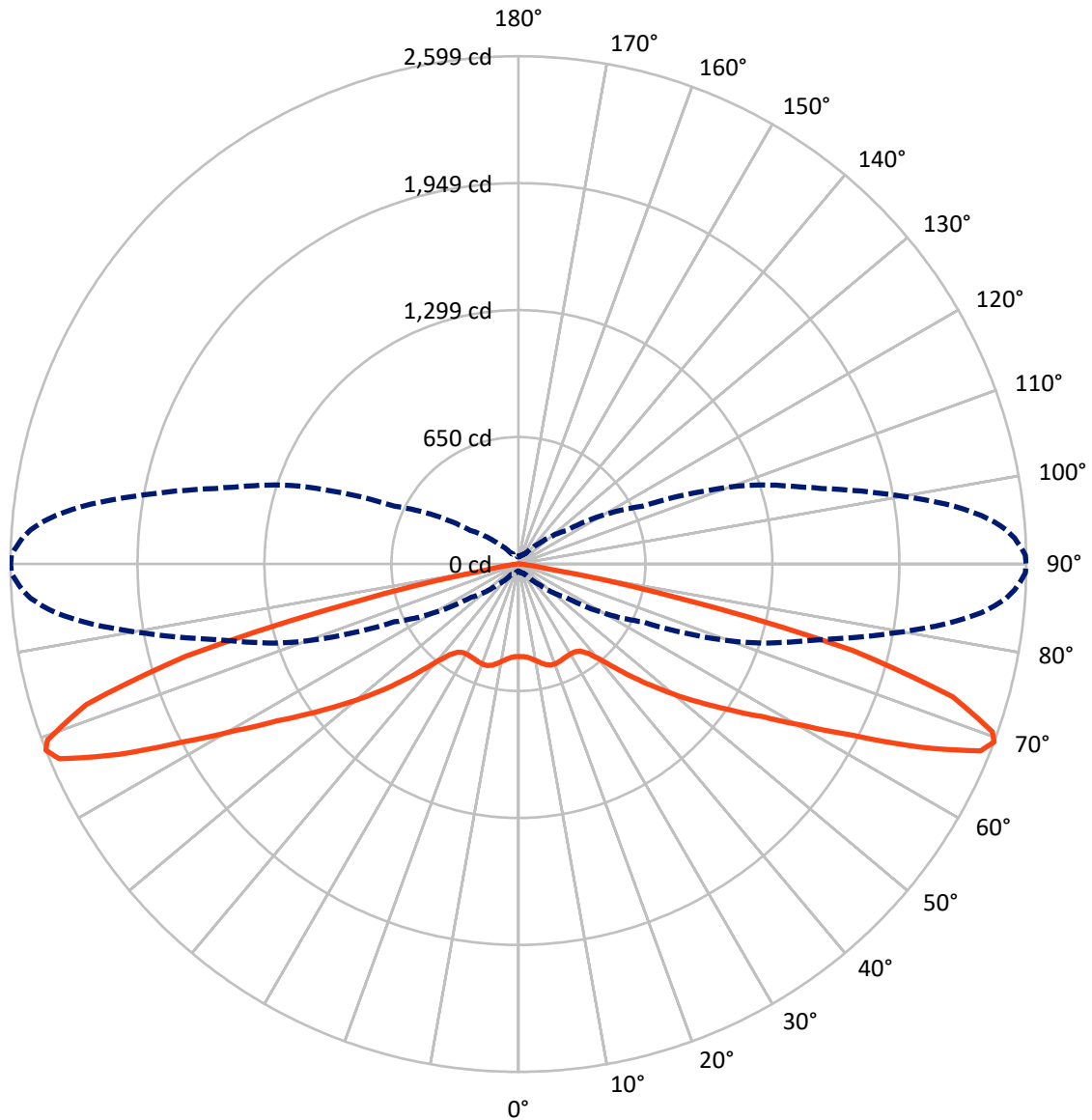
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type I - Short - Full Cutoff

REPORT NUMBER: P140747
CATALOG NUMBER: ECM-F01-LED-E1-RW-7060

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P140747

CATALOG NUMBER: ECM-F01-LED-E1-RW-7060

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1252.5	0.0	1252.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1252.5	0.0	1252.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	2505.1	0.0	2505.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	1.8
10°-20°	145.6	5.8
20°-30°	235.4	9.4
30°-40°	294.1	11.7
40°-50°	367.8	14.7
50°-60°	453.2	18.1
60°-70°	561.1	22.4
70°-80°	366.7	14.6
80°-90°	34.8	1.4
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°	2505.1	100.0
0°-180°	2505.1	100.0



REPORT NUMBER: P140747

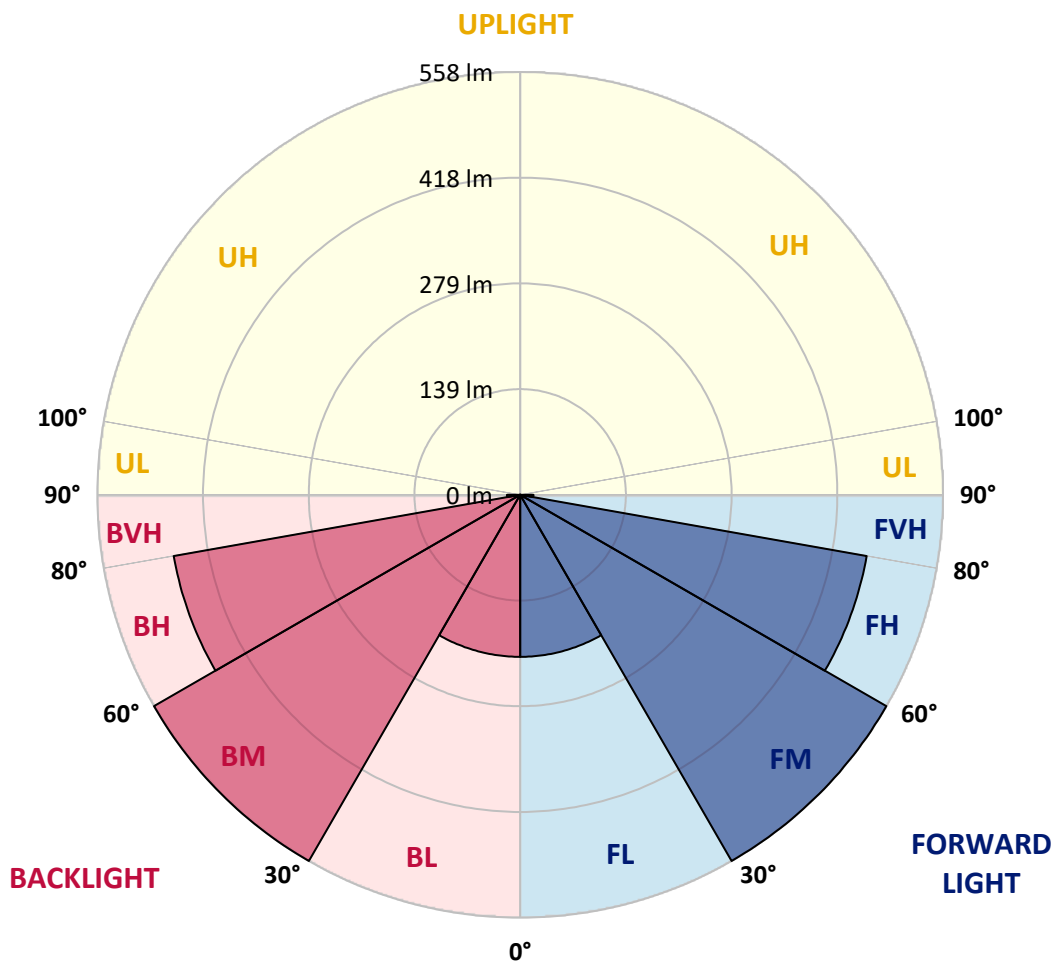
CATALOG NUMBER: ECM-F01-LED-E1-RW-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	213.7	8.5			
FM	(30°-60°)	557.5	22.3			
FH	(60°-80°)	463.9	18.5			G0/660
FVH	(80°-90°)	17.4	0.7			G1/100
BL	(0°-30°)	213.7	8.5	B1/500		
BM	(30°-60°)	557.5	22.3	B1/1000		
BH	(60°-80°)	463.9	18.5	B1/500		G1/500
BVH	(80°-90°)	17.4	0.7			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 I Short





REPORT NUMBER: P140747

CATALOG NUMBER: ECM-F01-LED-E1-RW-7060

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0
2.5°	476.0	476.3	475.5	475.8	476.0	475.8	475.4	475.4	475.2	475.1	475.0
5°	479.2	479.3	478.9	479.6	479.7	480.2	480.2	480.3	480.2	480.1	480.0
7.5°	483.6	484.1	483.7	484.7	485.7	487.0	487.8	489.4	489.4	489.4	489.4
10°	487.6	488.2	488.2	490.5	492.8	495.6	498.4	501.0	501.2	501.4	501.6
12.5°	490.8	491.2	491.8	496.0	501.3	505.8	510.8	515.0	515.2	515.3	515.5
15°	489.4	490.4	493.7	500.2	509.6	517.2	523.2	528.3	528.6	529.0	529.3
17.5°	485.1	486.6	491.3	502.4	516.8	528.9	536.0	537.4	537.7	537.9	538.1
20°	475.6	477.9	485.2	500.9	522.4	538.6	545.8	543.2	543.0	542.8	542.6
22.5°	459.8	462.8	472.0	494.2	522.8	545.6	552.7	545.7	544.9	544.1	543.3
25°	438.6	441.0	451.5	477.9	516.3	546.9	557.1	547.2	545.9	544.7	543.4
27.5°	413.0	414.9	427.9	456.0	500.2	540.4	559.9	549.9	548.3	546.6	545.0
30°	384.0	385.7	400.0	429.9	477.6	526.2	559.6	556.0	554.0	552.0	550.1
32.5°	355.2	355.9	368.6	401.5	452.5	505.2	555.0	565.3	563.4	561.5	559.6
35°	323.6	325.8	339.4	375.2	424.1	482.0	548.8	578.3	577.2	576.1	575.1
37.5°	298.2	298.9	313.4	350.7	401.1	461.0	540.8	594.9	595.7	596.4	597.2
40°	272.8	272.8	287.2	325.8	378.0	442.0	534.2	615.4	619.3	623.1	627.0
42.5°	245.0	246.9	261.0	299.5	355.8	426.0	530.8	640.0	647.2	654.5	661.8
45°	219.0	220.2	234.6	272.4	328.0	407.6	529.8	667.4	678.5	689.5	700.6
47.5°	193.4	195.2	209.0	243.6	297.6	383.2	528.6	698.6	712.7	726.8	741.0
50°	169.7	170.8	186.1	217.6	267.7	351.6	520.2	733.4	750.7	768.0	785.2
52.5°	144.6	146.8	159.4	191.9	237.4	317.5	498.4	771.4	792.3	813.2	834.1
55°	118.3	117.8	132.8	163.4	211.0	284.9	458.0	804.3	829.5	854.7	879.9
57.5°	86.7	88.6	102.4	133.3	180.4	257.5	410.4	821.4	852.8	884.3	915.8
60°	62.1	64.6	76.6	101.1	149.9	230.7	361.8	809.5	851.2	892.9	934.5
62.5°	48.6	49.7	60.0	75.8	116.9	202.6	329.2	778.7	836.2	893.6	951.1
65°	42.4	43.7	52.8	61.0	88.8	175.9	309.6	754.2	830.0	905.9	981.7
67.5°	38.6	40.1	48.0	53.6	72.8	153.2	305.0	734.1	823.1	912.0	1001.0
69°	36.7	38.3	45.6	50.8	67.6	146.0	299.6	700.4	790.7	881.0	971.3
70°	35.8	37.1	44.2	49.1	66.0	141.8	287.4	661.8	749.1	836.4	923.7
72.5°	33.0	33.7	40.2	45.1	62.4	118.6	227.8	495.4	568.3	641.3	714.2
75°	29.2	30.4	36.2	41.2	50.1	76.0	149.4	299.5	353.5	407.5	461.5
77.5°	25.1	26.1	31.2	39.4	38.5	46.0	85.8	167.3	196.5	225.7	254.9
80°	21.8	22.8	27.4	36.6	31.4	34.0	57.9	109.1	120.2	131.3	142.4
82.5°	17.0	17.8	23.0	29.8	24.2	25.2	43.4	95.3	102.0	108.7	115.4
85°	10.9	11.3	16.8	20.4	16.9	15.0	27.2	69.8	75.1	80.4	85.7
87.5°	3.8	5.4	7.5	7.0	7.0	5.4	9.6	25.8	27.9	30.0	32.0
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: P140747

CATALOG NUMBER: ECM-F01-LED-E1-RW-7060

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0
2.5°	474.8	474.6	474.8	474.8	474.6	474.5	474.5	474.4	474.1	474.1	474.0
5°	479.9	479.8	480.2	480.0	480.2	480.0	480.0	479.8	480.0	479.4	479.3
7.5°	489.4	489.4	489.4	489.8	489.4	489.3	489.6	489.6	489.6	489.3	489.3
10°	501.7	501.9	502.2	502.4	502.4	502.4	503.0	502.6	503.4	502.6	503.0
12.5°	515.7	515.8	516.6	516.8	517.2	517.2	517.2	518.0	518.6	518.4	518.6
15°	529.6	530.0	530.2	530.6	530.6	530.7	531.2	532.2	532.0	532.5	532.6
17.5°	538.4	538.6	538.4	538.4	538.8	539.2	539.8	540.3	540.2	540.6	540.8
20°	542.4	542.2	541.7	541.4	541.2	541.6	541.6	541.8	542.0	542.0	542.0
22.5°	542.5	541.7	540.7	540.2	539.4	539.0	539.3	539.0	539.0	539.0	538.8
25°	542.1	540.8	539.3	538.2	537.0	536.4	535.7	535.3	534.8	534.8	534.8
27.5°	543.3	541.7	540.2	538.0	536.5	535.6	534.6	533.7	533.1	532.6	532.6
30°	548.2	546.2	544.2	541.7	539.6	538.9	537.0	536.0	534.7	533.9	533.6
32.5°	557.7	555.8	553.2	550.3	548.6	546.5	545.0	542.8	541.3	540.3	539.0
35°	574.0	572.9	570.6	568.8	566.2	563.9	560.8	559.6	556.4	555.8	554.2
37.5°	598.0	598.8	598.3	597.0	595.2	593.1	591.8	589.4	588.2	586.9	585.4
40°	630.9	634.8	636.0	637.6	638.0	639.8	637.7	637.4	635.8	637.2	636.3
42.5°	669.1	676.4	680.3	685.0	690.1	694.7	698.4	704.6	703.9	708.7	712.2
45°	711.6	722.7	732.8	740.6	750.3	761.1	770.6	779.3	789.2	794.8	803.2
47.5°	755.2	769.3	783.8	798.2	812.1	825.9	842.8	858.2	873.2	883.4	896.2
50°	802.5	819.8	837.4	855.0	874.6	896.4	915.2	935.3	955.9	976.8	991.5
52.5°	855.0	875.8	895.0	913.6	937.8	960.8	985.4	1010.6	1041.8	1064.5	1084.6
55°	905.1	930.4	951.2	973.6	999.0	1024.5	1054.6	1086.1	1119.2	1151.9	1181.5
57.5°	947.2	978.6	1003.5	1025.6	1052.9	1082.4	1114.8	1153.8	1191.4	1232.1	1270.4
60°	976.2	1017.9	1047.8	1074.6	1106.2	1138.9	1181.1	1227.2	1276.7	1327.2	1376.4
62.5°	1008.6	1066.1	1107.0	1145.1	1182.5	1218.9	1266.5	1323.7	1390.9	1452.1	1517.1
65°	1057.6	1133.4	1193.8	1242.4	1295.4	1348.6	1404.0	1470.8	1547.2	1636.4	1712.2
67.5°	1090.0	1179.0	1255.8	1325.4	1387.4	1451.9	1521.9	1601.8	1694.0	1785.0	1879.4
69°	1061.6	1151.9	1233.1	1309.7	1377.6	1447.1	1518.2	1598.8	1692.9	1793.6	1893.0
70°	1010.9	1098.2	1182.1	1262.8	1329.2	1401.8	1471.8	1548.4	1643.9	1744.6	1852.8
72.5°	787.1	860.0	946.2	1024.1	1103.4	1169.5	1232.8	1309.7	1406.0	1501.9	1607.4
75°	515.5	569.5	648.3	712.4	780.8	843.0	888.9	965.2	1023.7	1113.9	1211.9
77.5°	284.1	313.2	354.2	406.5	436.0	471.0	516.8	544.7	586.2	649.3	678.7
80°	153.5	164.6	181.8	192.7	201.5	192.9	188.2	196.5	193.0	192.0	182.5
82.5°	122.1	128.8	137.6	144.0	139.9	121.4	101.8	87.5	78.4	65.9	56.4
85°	91.0	96.2	99.6	103.9	103.2	93.4	74.7	57.7	45.3	36.2	31.5
87.5°	34.1	36.2	37.1	45.2	41.5	39.4	30.6	22.3	17.1	12.4	10.0
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: P140747

CATALOG NUMBER: ECM-F01-LED-E1-RW-7060

CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
0°	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0
2.5°	474.2	474.1	474.0	474.0	474.2	473.9	473.6	474.0	473.8	473.8	473.8
5°	479.9	479.8	479.7	479.8	479.7	479.8	479.8	479.2	479.4	479.6	479.7
7.5°	489.6	489.4	489.4	490.2	490.0	489.9	489.8	490.0	489.6	489.6	489.9
10°	503.0	503.6	503.4	503.8	503.8	503.4	503.2	503.4	503.9	504.0	503.4
12.5°	519.4	519.5	519.2	520.0	519.6	520.6	519.4	520.0	520.6	519.6	520.1
15°	532.7	532.6	533.2	533.4	533.2	533.5	534.4	534.0	533.5	534.2	534.5
17.5°	540.8	541.1	541.3	541.4	541.7	542.0	542.1	542.0	542.1	542.4	543.0
20°	542.6	542.4	542.7	542.8	543.2	543.3	543.6	543.4	543.8	544.0	544.1
22.5°	539.3	539.4	539.6	540.0	539.8	540.2	540.3	540.7	540.6	540.9	541.0
25°	534.9	535.2	535.3	535.2	535.2	535.4	535.5	535.4	536.0	536.2	536.2
27.5°	532.1	532.1	532.6	532.4	532.1	532.4	532.2	532.2	532.2	532.4	532.8
30°	533.2	532.8	532.5	532.6	532.4	532.1	531.8	531.4	531.4	531.6	531.4
32.5°	539.3	538.4	538.0	537.6	537.3	536.6	535.8	535.5	534.8	534.8	534.5
35°	554.8	553.8	553.8	552.3	551.4	551.0	550.3	548.2	548.4	547.5	547.2
37.5°	585.8	584.1	583.3	584.8	582.0	583.2	580.8	579.8	580.4	578.8	579.7
40°	637.7	640.3	639.2	640.8	641.5	641.8	641.8	639.4	641.8	638.0	639.3
42.5°	712.6	719.8	722.3	723.1	727.5	726.4	725.1	725.0	724.8	726.6	725.7
45°	807.0	807.9	820.0	822.2	824.6	827.4	826.6	829.7	832.0	828.9	829.3
47.5°	903.4	913.4	922.2	927.0	932.2	929.5	931.6	932.9	941.0	940.1	939.4
50°	1009.6	1026.4	1031.1	1036.3	1040.4	1048.6	1047.8	1052.8	1052.0	1058.6	1059.4
52.5°	1110.2	1128.8	1147.5	1155.7	1161.9	1171.4	1175.0	1180.4	1178.4	1177.8	1182.8
55°	1210.4	1241.2	1262.7	1283.8	1295.5	1308.0	1313.4	1321.1	1324.4	1326.0	1319.7
57.5°	1309.6	1346.7	1383.0	1408.9	1427.1	1446.0	1456.0	1464.3	1474.1	1477.3	1474.2
60°	1425.6	1480.0	1527.6	1562.3	1595.6	1616.2	1637.8	1653.6	1656.6	1670.0	1678.6
62.5°	1580.2	1646.4	1706.8	1757.2	1808.9	1847.4	1886.4	1902.0	1917.4	1927.8	1934.2
65°	1791.0	1878.2	1961.6	2033.4	2096.8	2160.9	2206.4	2230.2	2260.9	2266.9	2260.3
67.5°	1975.8	2078.8	2182.2	2273.7	2342.2	2408.7	2462.6	2502.1	2530.8	2544.9	2550.8
69°	1996.2	2100.8	2206.5	2297.7	2380.6	2447.0	2502.1	2541.4	2569.8	2594.3	2598.5
70°	1954.5	2072.0	2174.7	2266.8	2352.2	2419.9	2469.2	2514.1	2546.6	2565.4	2572.0
72.5°	1715.8	1821.4	1925.2	2031.2	2104.4	2185.6	2226.2	2262.2	2305.4	2330.0	2324.7
75°	1300.2	1391.6	1482.1	1561.4	1617.9	1647.8	1695.4	1730.3	1724.0	1765.3	1766.4
77.5°	733.4	745.2	806.6	798.5	825.6	826.3	833.4	845.6	822.1	870.6	835.8
80°	177.8	175.5	188.2	173.2	172.0	170.7	166.4	174.8	175.9	167.3	168.9
82.5°	52.2	50.0	49.0	47.7	49.8	49.2	49.6	49.8	51.2	49.4	51.4
85°	28.6	27.0	26.8	26.2	26.0	24.4	24.2	24.3	23.3	23.6	23.4
87.5°	11.0	10.4	9.8	9.4	9.2	8.8	8.4	7.6	6.8	6.0	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)