

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: P140933

Luminaire Tested: **ECM-F04-LED-E1-SL2-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140933
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33690)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-F04-LED-E1-SL2-8030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8020.5 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

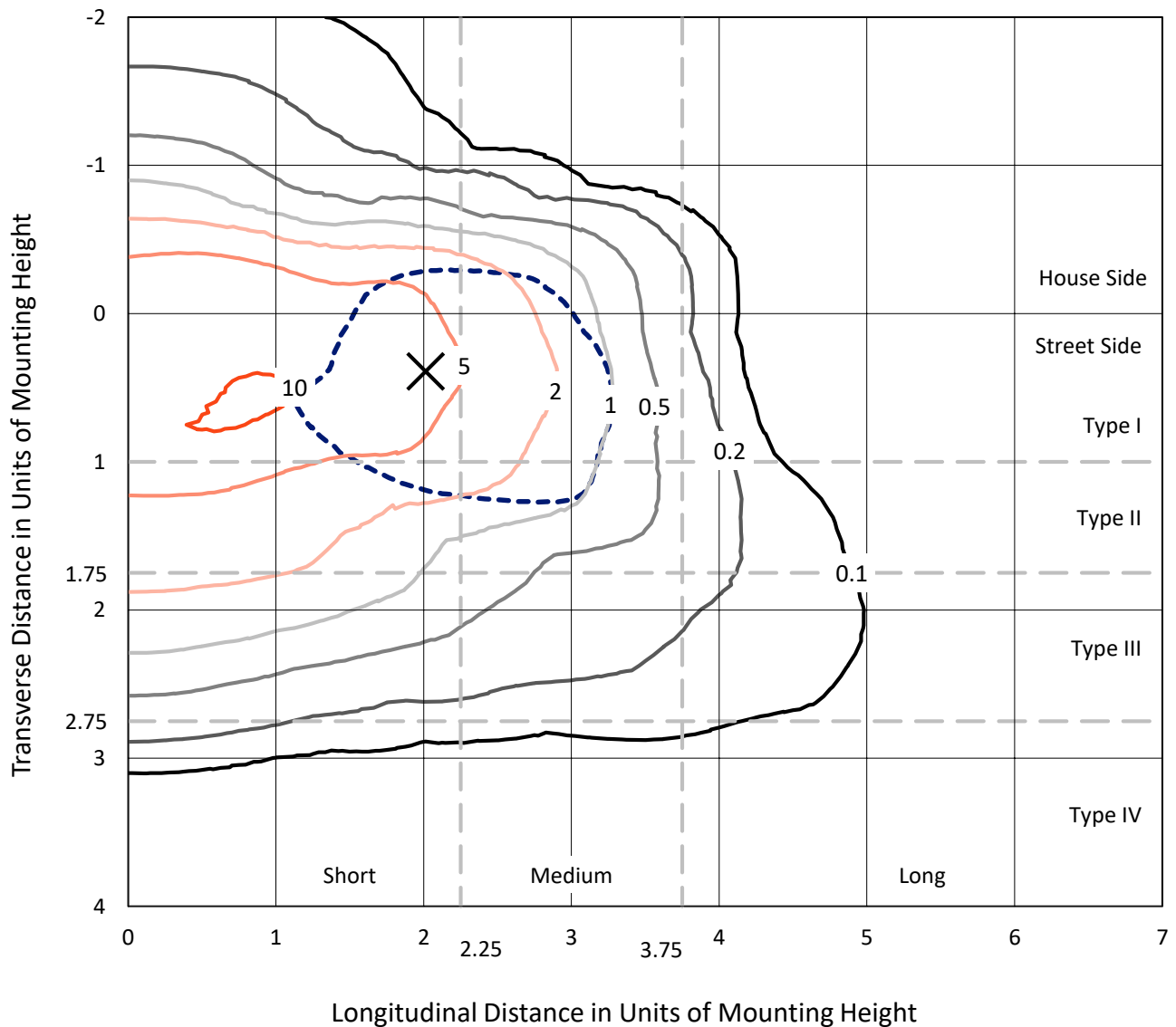
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

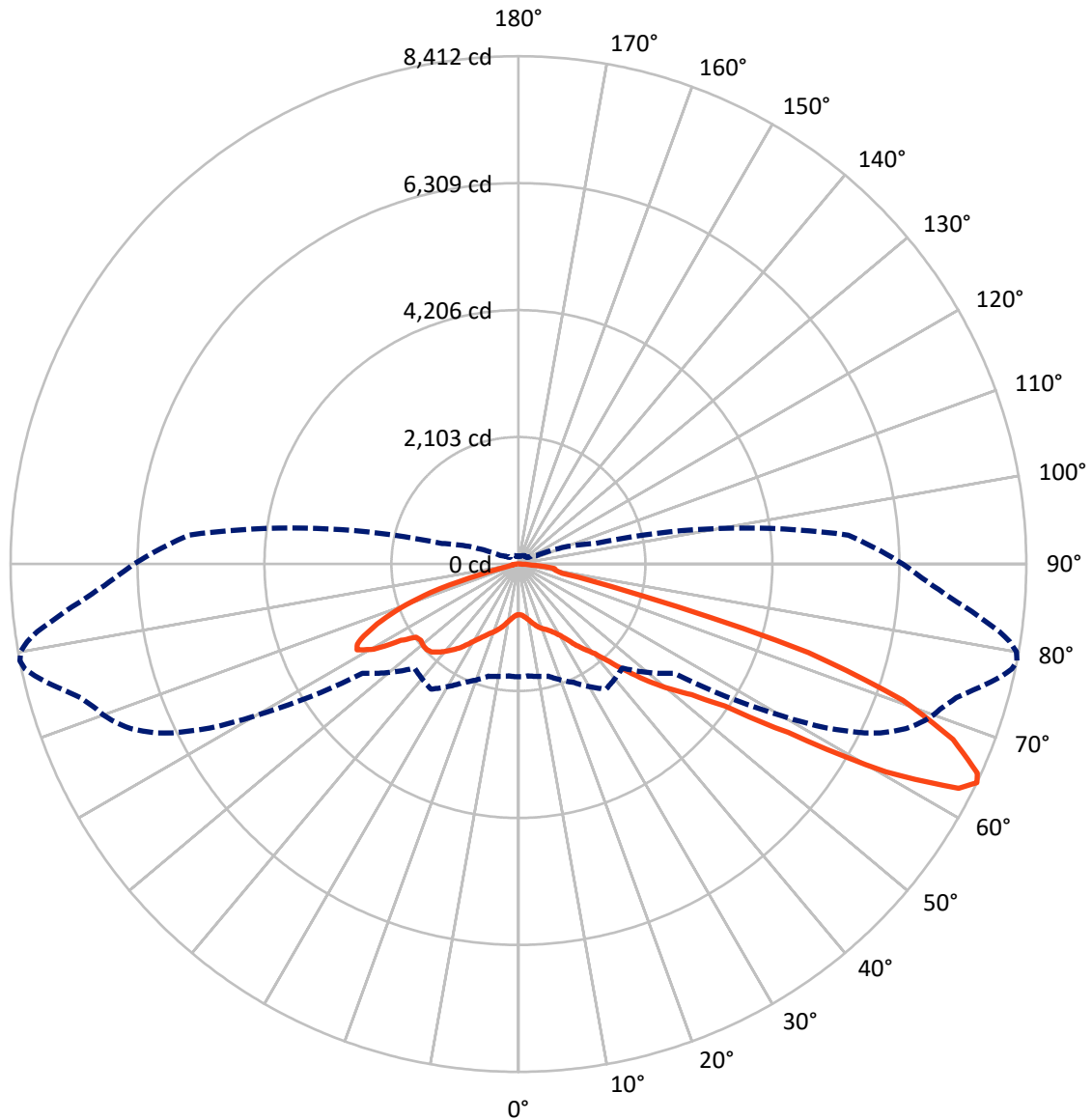
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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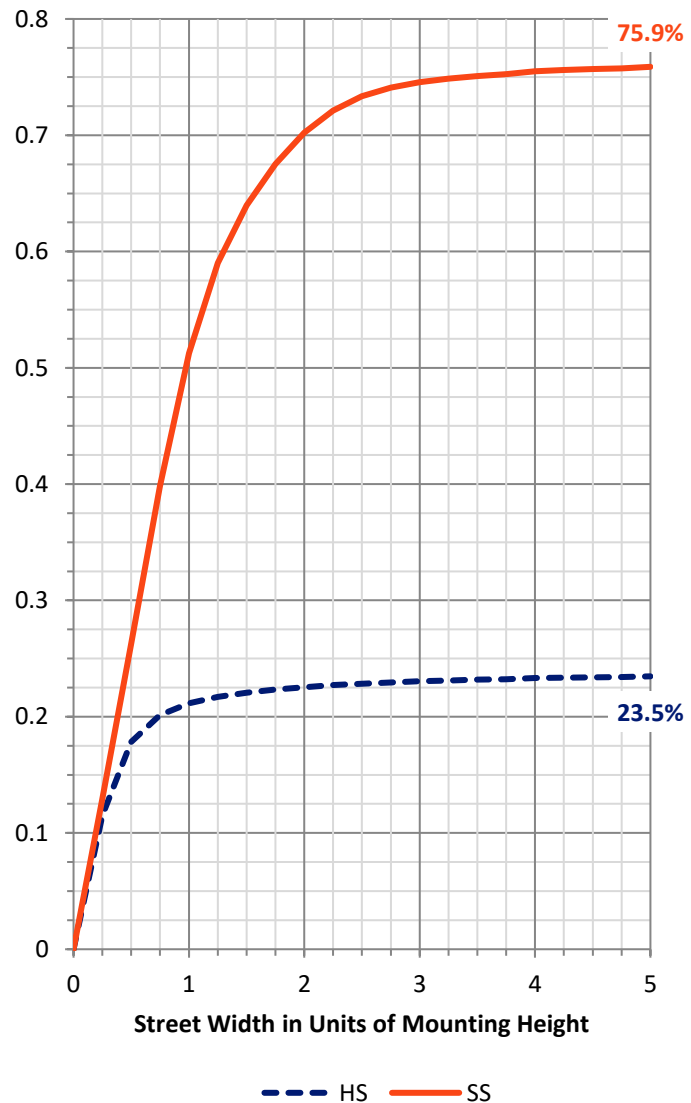
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1911.8	0.0	1911.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	6108.7	0.0	6108.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	8020.5	0.0	8020.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	1.0
10°-20°	269.4	3.4
20°-30°	462.5	5.8
30°-40°	773.1	9.6
40°-50°	1324.4	16.5
50°-60°	1786.5	22.3
60°-70°	2259.9	28.2
70°-80°	901.7	11.2
80°-90°	159.9	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°	8020.5	100.0
0°-180°	8020.5	100.0



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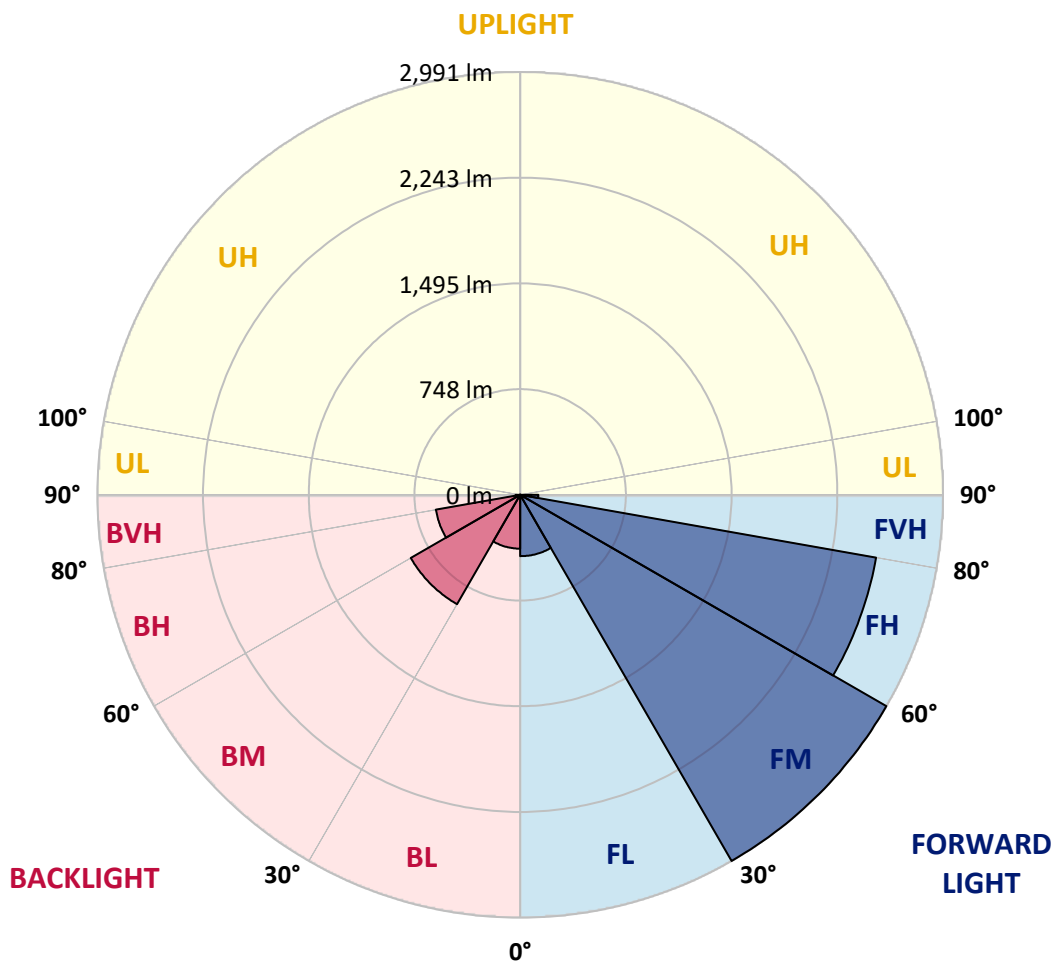
CATALOG NUMBER: ECM-F04-LED-E1-SL2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	434.1	5.4			
FM (30°-60°)	2990.6	37.3			
FH (60°-80°)	2556.0	31.9			G2/5000
FVH (80°-90°)	128.1	1.6			G2/225
BL (0°-30°)	381.0	4.7	B1/500		
BM (30°-60°)	893.4	11.1	B1/1000		
BH (60°-80°)	605.6	7.6	B2/1000		G2/1000
BVH (80°-90°)	31.9	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9
2.5°	835.2	836.1	835.2	837.9	839.8	842.6	842.6	842.6	842.6	842.6	842.6
5°	834.2	835.2	834.2	838.9	843.5	849.1	854.7	856.5	856.5	857.4	858.4
7.5°	842.6	843.5	842.6	848.2	854.7	864.0	874.2	879.7	880.7	881.6	883.5
10°	868.6	866.7	863.0	868.6	875.1	889.0	901.1	910.4	913.2	914.1	917.8
12.5°	903.0	902.0	895.5	892.8	896.5	912.3	934.6	947.6	950.3	951.3	955.0
15°	929.0	926.2	920.6	916.9	923.4	940.1	969.9	986.6	992.2	993.1	999.6
17.5°	945.7	943.8	934.6	931.8	942.0	968.0	1005.2	1025.6	1029.3	1032.1	1039.5
20°	973.6	968.0	954.1	942.0	950.3	990.3	1034.0	1055.3	1060.9	1063.7	1070.2
22.5°	1010.7	1006.1	989.4	958.7	958.7	1003.3	1060.0	1084.1	1088.8	1094.3	1101.8
25°	1074.8	1071.1	1038.6	986.6	973.6	1016.3	1084.1	1116.6	1121.3	1127.8	1138.9
27.5°	1140.8	1136.1	1099.9	1030.2	999.6	1040.5	1119.4	1158.4	1164.9	1172.4	1185.4
30°	1225.3	1217.0	1180.7	1099.9	1050.7	1079.5	1175.2	1224.4	1231.8	1241.1	1258.8
32.5°	1414.8	1418.6	1352.6	1267.1	1180.7	1168.7	1261.6	1321.9	1333.1	1345.2	1369.3
35°	1723.3	1708.4	1684.2	1596.9	1501.2	1406.5	1429.7	1494.7	1506.8	1510.5	1520.7
37.5°	1920.2	1928.6	1948.1	1948.1	1876.5	1836.6	1770.6	1739.1	1741.8	1745.6	1737.2
40°	2029.8	2047.5	2114.4	2204.5	2269.5	2305.7	2294.6	2146.9	2129.2	2106.0	2031.7
42.5°	2108.8	2126.4	2240.7	2413.5	2575.1	2703.3	2773.9	2657.8	2644.8	2589.1	2499.9
45°	2157.1	2171.0	2308.5	2553.8	2798.1	3016.4	3209.6	3168.8	3165.0	3117.7	3000.6
47.5°	2147.8	2159.9	2302.9	2598.4	2918.9	3215.2	3514.3	3588.7	3592.4	3580.3	3508.8
50°	2010.3	2039.1	2181.2	2499.9	2852.0	3292.3	3711.3	3905.4	3911.0	3922.2	3894.3
52.5°	1887.7	1910.0	2037.3	2322.5	2660.6	3216.1	3829.3	4137.7	4185.1	4212.0	4264.0
55°	1837.5	1850.5	1948.1	2190.5	2502.7	3012.7	3869.2	4305.8	4390.4	4441.5	4560.4
57.5°	1828.2	1838.5	1913.7	2098.6	2397.7	2802.7	3856.2	4531.6	4665.3	4762.0	4992.3
60°	1890.5	1899.8	1952.7	2107.9	2325.2	2649.5	3737.3	4828.8	5016.5	5276.6	5648.2
62.5°	1936.9	1941.6	2006.6	2224.0	2405.1	2499.9	3434.4	5036.9	5370.4	5701.2	6253.9
64°	1869.1	1859.8	1923.9	2163.6	2528.7	2435.8	3153.9	5026.7	5417.8	5784.8	6383.0
65°	1769.7	1776.2	1833.8	2045.6	2507.3	2433.0	2970.0	4915.2	5321.2	5710.4	6322.6
67.5°	1374.9	1400.0	1415.8	1609.9	2054.0	2512.0	2486.9	4205.5	4613.3	4984.9	5708.6
70°	739.5	736.7	772.0	925.3	1428.8	2132.0	2133.9	2964.4	3415.9	3877.6	4597.5
72.5°	272.2	286.1	314.0	422.7	742.3	1538.4	1955.5	2055.8	2257.4	2624.4	3396.4
75°	156.1	157.9	163.5	198.8	357.7	849.1	1817.1	1818.9	1833.8	1894.2	2314.1
77.5°	121.7	118.0	120.8	129.1	195.1	446.8	1457.6	1727.9	1726.0	1716.8	1778.1
80°	91.0	94.8	100.3	100.3	120.8	239.7	828.7	1537.5	1589.5	1628.5	1650.8
82.5°	73.4	76.2	90.1	90.1	88.3	135.6	391.1	1138.9	1302.4	1408.3	1572.8
85°	47.4	50.2	76.2	75.2	71.5	79.9	204.4	381.8	411.5	501.6	713.5
87.5°	13.0	15.8	35.3	30.7	37.2	29.7	76.2	116.1	143.1	161.6	203.4
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: ECM-F04-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9
2.5°	842.6	842.6	842.6	843.5	843.5	843.5	843.5	843.5	844.4	842.6	842.6
5°	859.3	858.4	859.3	859.3	862.1	861.2	862.1	862.1	861.2	863.0	863.0
7.5°	886.2	884.4	886.2	887.2	888.1	891.8	891.8	893.7	894.6	895.5	893.7
10°	918.8	921.5	922.5	922.5	927.1	929.0	929.0	931.8	934.6	936.4	935.5
12.5°	958.7	960.6	961.5	967.1	968.0	970.8	975.4	978.2	978.2	982.9	985.6
15°	1003.3	1005.2	1010.7	1012.6	1016.3	1020.9	1023.7	1026.5	1026.5	1034.9	1037.7
17.5°	1041.4	1045.1	1048.8	1051.6	1058.1	1062.8	1067.4	1070.2	1074.8	1078.5	1085.0
20°	1073.9	1078.5	1083.2	1088.8	1093.4	1098.1	1103.6	1107.3	1112.9	1118.5	1125.0
22.5°	1105.5	1111.1	1116.6	1121.3	1127.8	1132.4	1137.1	1143.6	1147.3	1152.9	1160.3
25°	1139.9	1149.1	1154.7	1161.2	1167.7	1174.2	1179.8	1185.4	1191.0	1198.4	1205.8
27.5°	1194.7	1199.3	1206.7	1210.5	1221.6	1229.0	1236.5	1237.4	1244.8	1258.8	1260.6
30°	1266.2	1274.6	1279.2	1292.2	1294.1	1296.9	1308.9	1317.3	1326.6	1337.7	1342.4
32.5°	1374.0	1381.4	1387.9	1391.6	1401.8	1418.6	1420.4	1427.8	1443.6	1446.4	1463.1
35°	1531.9	1533.7	1544.0	1549.5	1562.5	1571.8	1576.5	1583.0	1591.3	1610.9	1615.5
37.5°	1721.4	1737.2	1724.2	1711.2	1734.4	1731.6	1737.2	1729.8	1752.1	1753.0	1761.3
40°	2015.9	2009.4	1981.5	1951.8	1937.9	1929.5	1912.8	1909.1	1921.1	1915.6	1918.3
42.5°	2449.7	2388.4	2341.0	2305.7	2262.1	2214.7	2187.7	2146.9	2146.9	2134.8	2145.9
45°	2959.7	2891.0	2802.7	2719.1	2665.2	2603.0	2538.9	2496.2	2452.5	2420.0	2448.8
47.5°	3462.3	3415.9	3317.4	3240.3	3132.5	3039.6	2938.4	2850.1	2798.1	2760.0	2765.6
50°	3898.9	3856.2	3805.1	3701.1	3619.3	3524.6	3417.7	3301.6	3189.2	3143.7	3104.7
52.5°	4266.8	4251.9	4208.3	4160.0	4093.1	3991.8	3924.0	3813.5	3680.6	3584.9	3544.1
55°	4592.0	4618.0	4641.2	4631.0	4606.8	4593.8	4510.2	4435.0	4344.8	4317.0	4232.4
57.5°	5103.8	5179.1	5268.2	5317.5	5365.8	5476.3	5503.3	5474.5	5485.6	5478.2	5433.6
60°	5828.4	6010.5	6166.6	6291.1	6423.9	6553.0	6705.4	6805.7	6847.5	7009.2	7006.4
62.5°	6449.9	6692.4	6892.1	7041.7	7196.8	7313.9	7412.3	7512.7	7635.3	7752.3	7900.1
64°	6619.0	6809.4	6972.0	7105.8	7217.3	7312.9	7388.2	7480.2	7581.4	7732.8	7896.3
65°	6531.7	6746.3	6864.2	6985.0	7085.3	7159.7	7236.8	7320.4	7448.6	7568.4	7743.1
67.5°	5938.0	6100.6	6271.5	6384.0	6480.6	6524.2	6596.7	6666.4	6737.9	6858.7	7077.0
70°	5007.2	5189.3	5435.5	5541.4	5641.7	5657.5	5725.3	5777.3	5824.7	5985.4	6093.2
72.5°	3756.8	4109.8	4351.3	4537.1	4557.6	4636.5	4664.4	4685.8	4739.7	4769.4	4801.9
75°	2589.1	2906.8	3112.1	3182.7	3269.1	3227.3	3179.0	3009.0	3009.9	2865.9	2702.4
77.5°	1821.7	1871.0	1872.8	1873.8	1759.5	1692.6	1616.4	1518.9	1480.8	1404.6	1300.6
80°	1651.7	1646.2	1611.8	1570.0	1507.7	1418.6	1326.6	1262.5	1212.3	1155.7	1081.3
82.5°	1594.1	1607.1	1582.1	1546.8	1510.5	1422.3	1316.4	1216.0	1133.4	1043.2	952.2
85°	776.6	798.9	871.4	918.8	929.9	875.1	799.9	708.8	621.5	523.0	477.5
87.5°	233.2	249.9	255.5	271.3	290.8	264.8	233.2	209.0	168.1	145.8	114.3
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9
2.5°	842.6	843.5	843.5	842.6	843.5	843.5	844.4	843.5	843.5	843.5	842.6
5°	861.2	864.9	864.0	864.0	865.8	865.8	864.9	866.7	865.8	865.8	864.9
7.5°	896.5	896.5	899.3	900.2	898.3	898.3	900.2	901.1	903.0	903.9	903.9
10°	937.3	942.0	942.0	942.9	943.8	946.6	947.6	947.6	949.4	949.4	951.3
12.5°	987.5	989.4	991.2	995.9	996.8	996.8	1001.4	1000.5	1000.5	1005.2	1006.1
15°	1041.4	1044.2	1048.8	1050.7	1052.5	1057.2	1060.0	1062.8	1061.8	1068.3	1070.2
17.5°	1088.8	1091.6	1097.1	1101.8	1104.6	1107.3	1109.2	1112.9	1118.5	1123.1	1124.1
20°	1126.9	1130.6	1137.1	1142.6	1147.3	1150.1	1157.5	1161.2	1163.1	1166.8	1171.4
22.5°	1164.0	1170.5	1177.0	1178.9	1189.1	1191.9	1197.5	1203.0	1206.7	1215.1	1217.9
25°	1210.5	1216.0	1224.4	1230.0	1236.5	1242.0	1247.6	1252.3	1260.6	1268.1	1271.8
27.5°	1271.8	1276.4	1282.9	1293.1	1298.7	1302.4	1312.6	1321.9	1325.7	1333.1	1339.6
30°	1352.6	1357.2	1366.5	1376.7	1381.4	1393.5	1400.9	1407.4	1414.8	1425.1	1434.3
32.5°	1470.6	1476.2	1484.5	1497.5	1497.5	1505.9	1521.7	1535.6	1541.2	1553.3	1559.8
35°	1625.7	1626.6	1635.9	1655.4	1661.0	1659.2	1674.0	1687.0	1690.7	1709.3	1721.4
37.5°	1776.2	1779.0	1790.1	1797.6	1807.8	1815.2	1825.4	1845.0	1845.0	1871.9	1883.0
40°	1932.3	1946.2	1948.1	1949.9	1966.7	1996.4	2006.6	2026.1	2043.8	2069.8	2081.8
42.5°	2159.0	2173.8	2191.5	2211.9	2237.0	2253.7	2273.2	2301.1	2308.5	2341.0	2349.4
45°	2469.2	2486.9	2534.3	2538.9	2583.5	2605.8	2638.3	2675.5	2684.8	2706.1	2695.0
47.5°	2778.6	2799.0	2851.0	2904.9	2945.8	2984.8	2994.1	3009.9	3023.8	3010.8	3014.5
50°	3121.4	3151.1	3200.3	3247.7	3278.4	3323.0	3323.0	3326.7	3313.7	3292.3	3257.9
52.5°	3522.7	3527.3	3558.9	3596.1	3624.0	3633.2	3633.2	3611.9	3580.3	3545.9	3479.0
55°	4192.5	4141.4	4150.7	4150.7	4130.2	4113.5	4100.5	4048.5	3986.3	3924.0	3862.7
57.5°	5399.2	5447.5	5303.6	5264.5	5266.4	5139.1	5087.1	4997.9	4931.0	4819.6	4725.7
60°	7120.6	7087.2	7039.8	6995.2	6998.9	6830.8	6712.8	6580.0	6463.8	6218.6	6114.6
62.5°	8032.0	8150.9	8218.7	8184.3	8105.4	8000.4	7807.2	7605.6	7401.2	7193.1	7006.4
64°	8065.4	8222.4	8356.2	8411.9	8374.8	8241.9	8045.0	7794.1	7550.8	7305.5	7079.8
65°	7903.8	8102.6	8275.4	8353.4	8355.3	8238.2	8041.3	7788.6	7528.5	7244.2	7009.2
67.5°	7233.0	7461.6	7631.6	7762.6	7875.0	7815.5	7679.0	7410.5	7164.3	6841.9	6584.6
70°	6227.0	6368.2	6559.5	6750.9	6841.0	6854.9	6803.9	6668.2	6380.2	6118.3	5786.6
72.5°	4799.1	5018.4	4905.9	5023.9	5099.2	5025.8	5035.1	4803.8	4710.9	4480.5	4247.3
75°	2541.7	2549.1	2500.8	2149.7	2106.0	1945.3	2123.6	1805.0	1696.3	1596.0	1466.9
77.5°	1178.9	1026.5	884.4	738.5	603.8	528.6	412.5	363.2	327.0	288.0	296.3
80°	985.6	868.6	744.1	616.8	518.4	419.0	336.3	261.0	209.0	175.6	159.8
82.5°	872.3	769.2	682.8	604.8	534.2	436.6	358.6	276.8	212.7	160.7	124.5
85°	393.9	308.4	280.6	221.1	187.7	159.8	127.3	105.0	86.4	73.4	57.6
87.5°	92.0	63.2	53.9	51.1	44.6	41.8	35.3	37.2	30.7	24.2	25.1
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9
2.5°	842.6	842.6	843.5	843.5	844.4	846.3	849.1	846.3	846.3	846.3	847.2
5°	866.7	867.7	866.7	866.7	868.6	871.4	872.3	866.7	864.0	861.2	857.4
7.5°	902.0	905.8	904.8	904.8	906.7	906.7	904.8	896.5	888.1	875.1	864.0
10°	951.3	953.1	953.1	953.1	955.9	957.8	949.4	930.8	908.5	885.3	864.9
12.5°	1009.8	1008.9	1011.7	1014.4	1012.6	1012.6	996.8	968.0	931.8	893.7	858.4
15°	1071.1	1072.0	1072.0	1076.7	1077.6	1073.9	1048.8	1004.2	948.5	890.9	834.2
17.5°	1128.7	1130.6	1131.5	1135.2	1139.9	1129.6	1093.4	1033.0	951.3	864.9	788.7
20°	1177.0	1179.8	1182.6	1185.4	1190.0	1182.6	1134.3	1047.0	936.4	823.1	735.8
22.5°	1220.7	1225.3	1227.2	1231.8	1239.3	1230.0	1171.4	1047.0	903.0	777.6	676.3
25°	1273.6	1279.2	1288.5	1290.4	1303.4	1293.1	1201.2	1039.5	864.9	720.0	612.2
27.5°	1343.3	1348.9	1357.2	1361.9	1377.7	1363.7	1223.5	1020.0	817.5	657.7	550.0
30°	1435.3	1440.8	1451.1	1455.7	1484.5	1438.1	1238.3	990.3	762.7	585.3	478.4
32.5°	1563.5	1578.3	1577.4	1589.5	1615.5	1520.7	1244.8	948.5	693.9	511.9	411.5
35°	1731.6	1741.8	1751.1	1767.9	1779.9	1609.0	1240.2	893.7	608.5	435.7	353.0
37.5°	1893.3	1910.9	1917.4	1928.6	1925.8	1668.4	1221.6	808.2	515.6	367.9	313.1
40°	2094.9	2105.1	2125.5	2135.7	2086.5	1725.1	1177.9	693.9	422.7	323.3	287.1
42.5°	2363.3	2376.3	2366.1	2363.3	2268.6	1756.7	1094.3	579.7	353.9	290.8	265.7
45°	2689.4	2695.0	2664.3	2643.9	2478.5	1753.9	972.6	471.9	306.6	266.6	247.1
47.5°	2983.9	2972.7	2932.8	2902.1	2660.6	1688.9	820.3	389.2	281.5	247.1	232.2
50°	3227.3	3178.0	3135.3	3096.3	2806.5	1589.5	674.4	327.9	257.3	231.3	217.4
52.5°	3447.4	3380.6	3330.4	3264.4	2939.3	1458.5	558.3	286.1	233.2	215.5	201.6
55°	3773.5	3695.5	3631.4	3566.4	3174.3	1356.3	483.1	254.5	209.0	198.8	185.8
57.5°	4709.0	4500.0	4443.3	4384.8	3804.2	1334.0	439.4	229.5	190.4	183.0	174.6
60°	5988.2	5852.6	5761.5	5618.5	4850.2	1405.5	406.9	210.9	177.4	172.8	165.4
62.5°	6822.4	6658.9	6508.4	6362.6	5464.3	1403.7	366.9	198.8	170.0	169.1	157.9
64°	6875.4	6692.4	6524.2	6367.2	5483.8	1311.7	330.7	190.4	170.0	170.0	153.3
65°	6788.1	6604.1	6430.4	6266.9	5372.3	1241.1	306.6	186.7	172.8	171.9	150.5
67.5°	6343.1	6158.2	5963.1	5787.5	4900.4	972.6	242.5	180.2	187.7	181.2	147.7
70°	5556.2	5346.3	5199.5	5073.2	4206.4	679.1	192.3	183.9	205.3	192.3	155.1
72.5°	4027.1	3856.2	3854.3	3711.3	3184.5	431.0	155.1	183.0	204.4	190.4	160.7
75°	1564.4	1341.4	1334.0	1384.2	1354.5	233.2	133.8	161.6	167.2	158.9	142.1
77.5°	267.5	262.9	260.1	274.0	301.9	129.1	122.6	137.5	124.5	112.4	118.0
80°	148.6	142.1	140.3	140.3	131.9	105.9	108.7	109.6	90.1	83.6	97.5
82.5°	103.1	95.7	92.0	89.2	86.4	94.8	96.6	86.4	65.0	64.1	91.0
85°	50.2	47.4	46.4	46.4	53.0	89.2	79.9	66.9	43.7	43.7	98.5
87.5°	21.4	21.4	18.6	18.6	28.8	56.7	36.2	27.9	17.7	20.4	39.9
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: P140933

CATALOG NUMBER: ECM-F04-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	838.9	838.9	838.9
2.5°	846.3	848.2	847.2
5°	852.8	852.8	850.9
7.5°	851.9	848.2	846.3
10°	846.3	836.1	835.2
12.5°	831.4	814.7	810.1
15°	788.7	766.4	760.8
17.5°	734.8	708.8	701.4
20°	673.5	643.8	633.6
22.5°	614.1	579.7	569.5
25°	549.0	514.7	509.1
27.5°	477.5	445.0	436.6
30°	411.5	383.7	377.2
32.5°	352.1	332.6	332.6
35°	313.1	296.3	296.3
37.5°	282.4	275.0	274.0
40°	262.0	255.5	254.5
42.5°	246.2	238.7	237.8
45°	229.5	222.0	222.0
47.5°	213.7	205.3	206.2
50°	197.9	191.4	191.4
52.5°	184.9	178.4	177.4
55°	172.8	166.3	165.4
57.5°	161.6	154.2	153.3
60°	150.5	143.1	141.2
62.5°	141.2	132.8	131.0
64°	135.6	127.3	125.4
65°	132.8	123.6	122.6
67.5°	130.1	118.0	117.1
70°	140.3	116.1	111.5
72.5°	141.2	113.3	107.8
75°	133.8	107.8	103.1
77.5°	118.0	98.5	92.9
80°	113.3	77.1	67.8
82.5°	104.0	63.2	53.0
85°	85.5	40.9	38.1
87.5°	49.2	26.9	19.5
90°	0.0	0.0	0.0

(END OF REPORT)