

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: P159902

Luminaire Tested: **ENC-E02-LED-E1-SLL-ULG**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P159902
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P20107) AND DOWNLIGHT
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENC-E02-LED-E1-SLL-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5184.7 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G2

Input Watts (W): 54.9
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

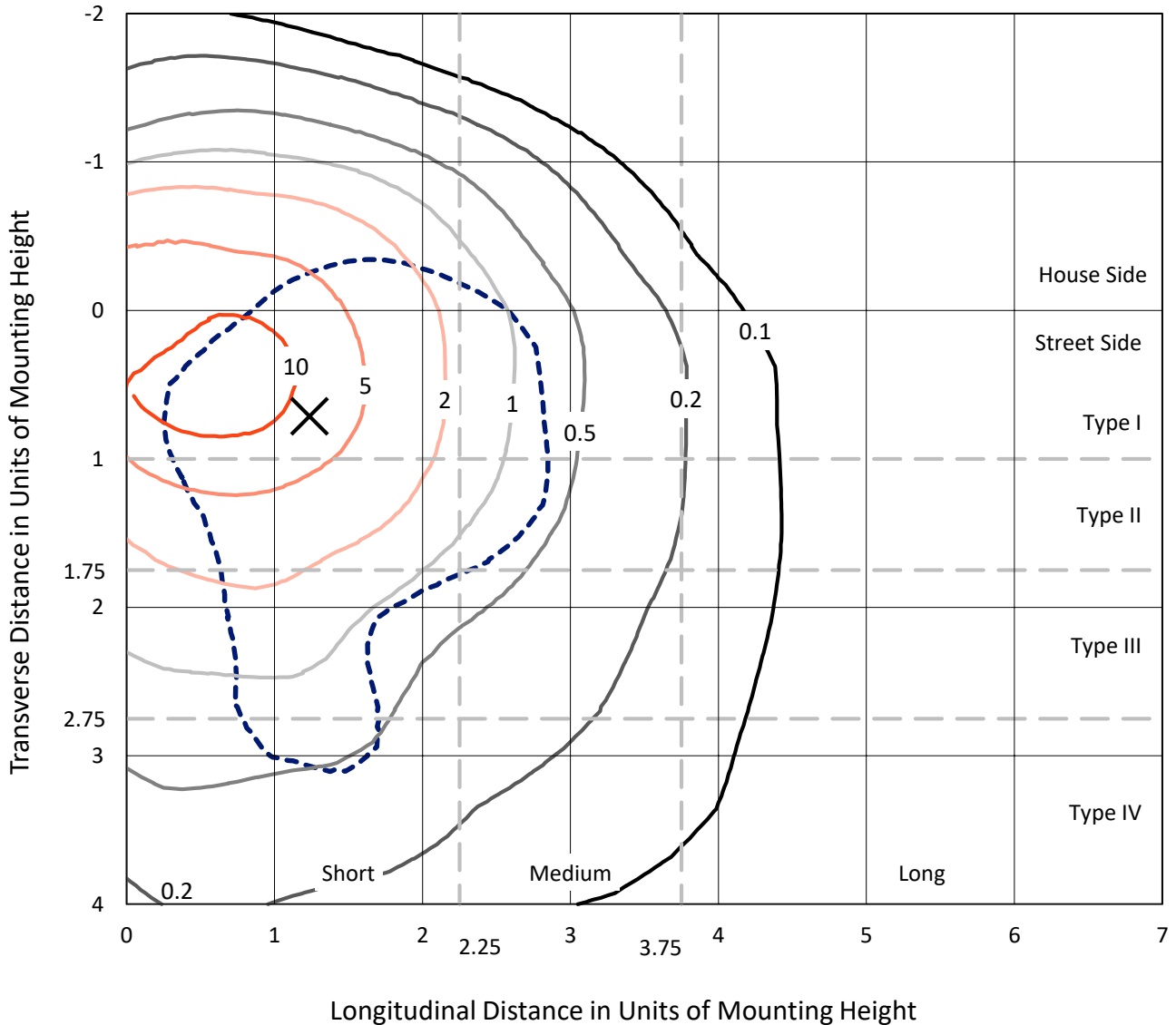


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Iso-Footcandle Lines of Horizontal Illumination

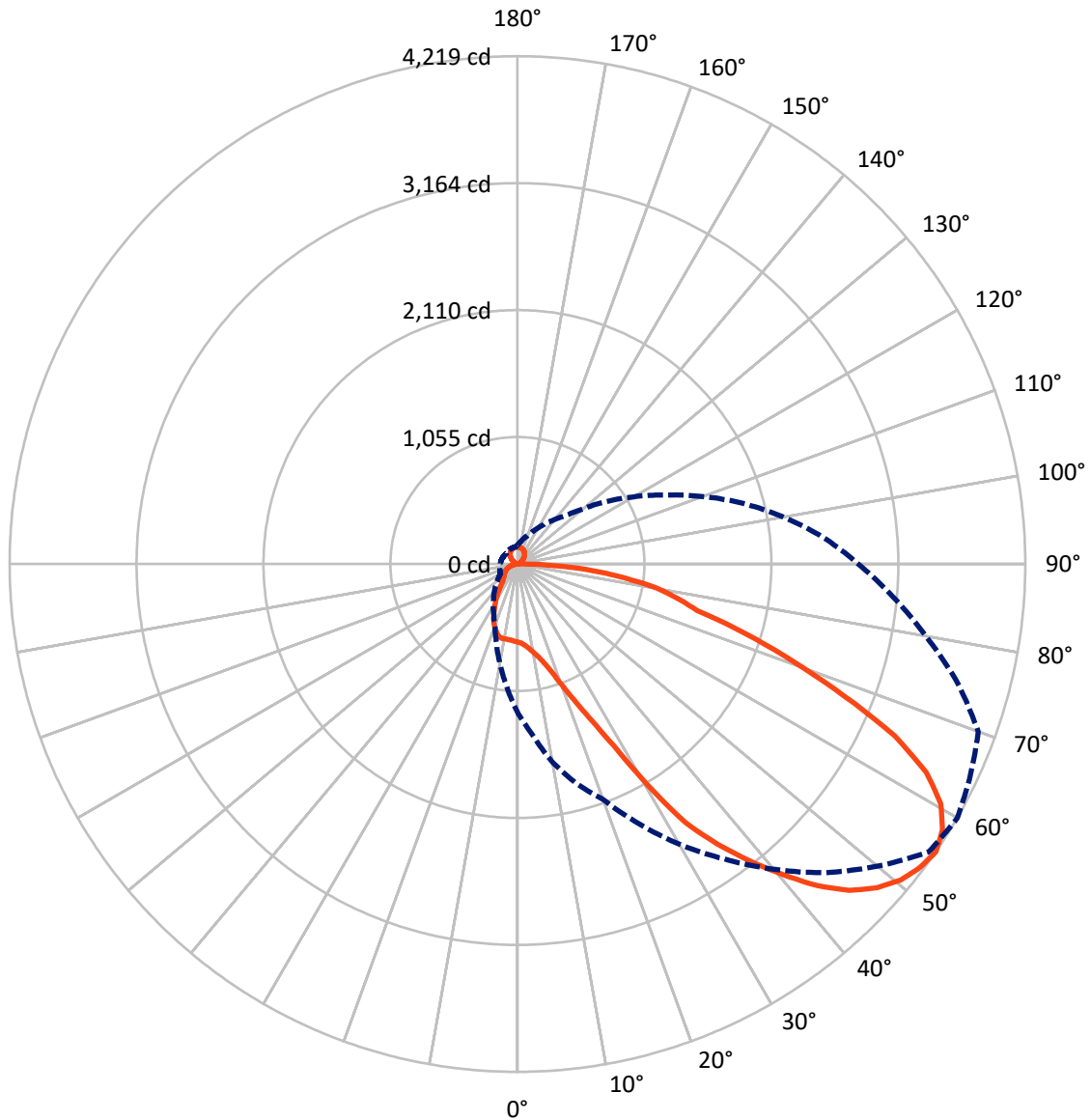
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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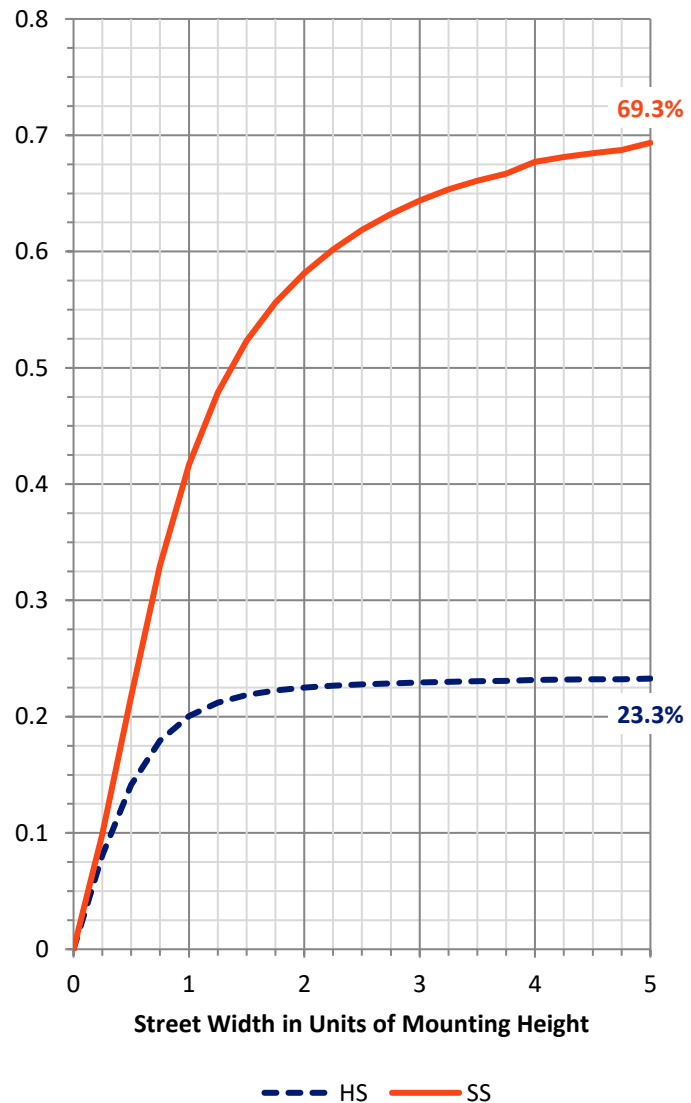
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1217.0	157.7	1374.8
	% Fixture	23.5	3.0	26.5
Street Side	Lumens	3652.2	157.7	3809.9
	% Fixture	70.4	3.0	73.5
Total	Lumens	4869.2	315.5	5184.7
	% Fixture	93.9	6.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	1.2
10°-20°	210.1	4.1
20°-30°	407.8	7.9
30°-40°	640.8	12.4
40°-50°	856.6	16.5
50°-60°	1005.0	19.4
60°-70°	953.5	18.4
70°-80°	575.5	11.1
80°-90°	155.9	3.0
90°-100°	1.3	0.0
100°-110°	12.3	0.2
110°-120°	25.2	0.5
120°-130°	43.0	0.8
130°-140°	60.0	1.2
140°-150°	65.4	1.3
150°-160°	56.9	1.1
160°-170°	38.2	0.7
170°-180°	13.3	0.3
0°-90°	4869.2	93.9
0°-180°	5184.7	100.0



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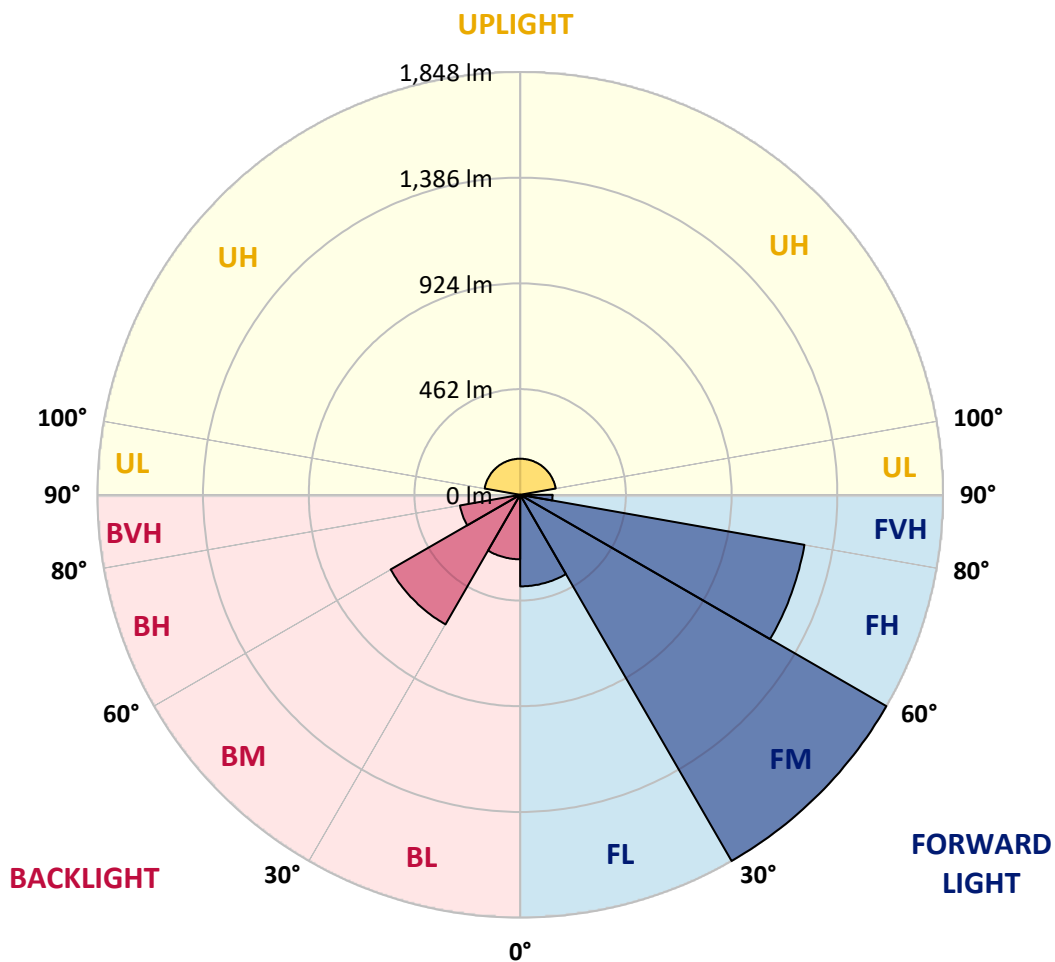
CATALOG NUMBER: ENC-E02-LED-E1-SLL-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	400.2	7.7			
FM	(30°-60°)	1848.4	35.7			
FH	(60°-80°)	1261.8	24.3			G1/1800
FVH	(80°-90°)	141.8	2.7			G2/225
BL	(0°-30°)	281.6	5.4	B1/500		
BM	(30°-60°)	654.0	12.6	B1/1000		
BH	(60°-80°)	267.2	5.2	B1/500		G1/500
BVH	(80°-90°)	14.2	0.3			G1/100
UL	(90°-100°)	1.3	0.0		U1/10	
UH	(100°-180°)	157.7	3.0		U3/500	

BUG Rating: B1-U3-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0
2.5°	663.0	662.0	663.0	662.0	662.0	662.0	663.0	662.0	659.0	659.0	660.0
5°	679.0	679.0	679.0	680.0	680.0	681.0	683.0	681.0	680.0	685.0	681.0
7.5°	698.0	698.0	701.0	702.0	705.0	705.0	709.0	708.0	712.0	715.0	712.0
10°	727.0	724.0	731.0	731.0	739.0	740.0	744.0	745.0	752.0	758.0	753.0
12.5°	769.0	771.0	783.0	785.0	795.0	795.0	795.0	799.0	804.0	808.0	803.0
15°	844.0	848.0	864.0	865.0	882.0	875.0	883.0	884.0	883.0	886.0	879.0
17.5°	941.0	952.0	975.0	980.0	988.0	1002.0	1002.0	1000.0	1005.0	1008.0	989.0
20°	1060.0	1079.0	1105.0	1115.0	1137.0	1161.0	1160.0	1156.0	1157.0	1149.0	1128.0
22.5°	1194.0	1237.0	1280.0	1296.0	1312.0	1342.0	1361.0	1355.0	1360.0	1342.0	1323.0
25°	1347.0	1417.0	1482.0	1506.0	1564.0	1617.0	1625.0	1621.0	1599.0	1582.0	1563.0
27.5°	1441.0	1533.0	1622.0	1683.0	1782.0	1867.0	1884.0	1912.0	1919.0	1933.0	1887.0
30°	1461.0	1576.0	1687.0	1780.0	1899.0	2000.0	2112.0	2195.0	2251.0	2295.0	2265.0
32.5°	1475.0	1605.0	1728.0	1845.0	1943.0	2090.0	2231.0	2354.0	2518.0	2578.0	2635.0
35°	1479.0	1628.0	1767.0	1899.0	2026.0	2172.0	2323.0	2458.0	2680.0	2858.0	2980.0
37.5°	1473.0	1645.0	1808.0	1969.0	2120.0	2281.0	2440.0	2572.0	2788.0	3018.0	3182.0
40°	1449.0	1639.0	1825.0	2006.0	2189.0	2388.0	2570.0	2713.0	2915.0	3187.0	3405.0
42.5°	1418.0	1614.0	1819.0	2018.0	2224.0	2458.0	2678.0	2852.0	3075.0	3350.0	3598.0
45°	1379.0	1583.0	1795.0	2005.0	2227.0	2487.0	2738.0	2961.0	3198.0	3504.0	3743.0
47.5°	1331.0	1539.0	1763.0	1976.0	2207.0	2488.0	2766.0	3021.0	3281.0	3610.0	3868.0
50°	1286.0	1493.0	1727.0	1937.0	2169.0	2463.0	2763.0	3048.0	3332.0	3672.0	3943.0
52.5°	1251.0	1454.0	1696.0	1906.0	2125.0	2422.0	2733.0	3035.0	3340.0	3680.0	3957.0
55°	1229.0	1422.0	1670.0	1885.0	2081.0	2378.0	2687.0	2990.0	3310.0	3627.0	3905.0
57.5°	1232.0	1416.0	1655.0	1881.0	2049.0	2340.0	2635.0	2926.0	3217.0	3519.0	3806.0
60°	1263.0	1429.0	1647.0	1853.0	2069.0	2344.0	2612.0	2855.0	3088.0	3366.0	3634.0
62.5°	1341.0	1484.0	1660.0	1872.0	2110.0	2382.0	2597.0	2745.0	2884.0	3162.0	3435.0
65°	1489.0	1613.0	1754.0	1940.0	2173.0	2435.0	2536.0	2566.0	2655.0	2920.0	3191.0
67.5°	1634.0	1781.0	1861.0	1980.0	2198.0	2450.0	2463.0	2334.0	2332.0	2590.0	2786.0
70°	1774.0	1987.0	2019.0	2085.0	2234.0	2434.0	2387.0	2138.0	2025.0	2060.0	2174.0
72.5°	1682.0	2001.0	2024.0	2044.0	2133.0	2319.0	2265.0	1929.0	1676.0	1631.0	1760.0
75°	1284.0	1689.0	1743.0	1708.0	1757.0	1899.0	1889.0	1626.0	1540.0	1570.0	1620.0
77.5°	924.0	1302.0	1419.0	1305.0	1292.0	1384.0	1358.0	1380.0	1543.0	1587.0	1575.0
80°	536.0	827.0	994.0	885.0	846.0	904.0	1006.0	1160.0	1338.0	1433.0	1451.0
82.5°	335.0	488.0	664.0	622.0	569.0	671.0	829.0	937.0	1025.0	1112.0	1117.0
85°	145.0	209.0	324.0	340.0	421.0	512.0	638.0	669.0	765.0	832.0	774.0
87.5°	5.0	5.0	78.0	116.0	206.0	370.0	501.0	448.0	454.0	398.0	371.0
90°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
92.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
95°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
97.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
100°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
102.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
105°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
107.5°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
110°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8



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CATALOG NUMBER: ENC-E02-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
115°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
117.5°	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
120°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
122.5°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
125°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
127.5°	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
130°	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
132.5°	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
135°	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
137.5°	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
140°	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
142.5°	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
145°	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9
147.5°	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1
150°	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1
152.5°	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7
155°	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7
157.5°	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0
160°	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3
162.5°	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5
165°	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0
167.5°	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1
170°	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4
172.5°	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6
175°	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5
177.5°	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1
180°	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0
2.5°	660.0	658.0	659.0	656.0	656.0	657.0	657.0	654.0	654.0	654.0	653.0
5°	683.0	681.0	680.0	678.0	675.0	677.0	674.0	672.0	669.0	668.0	665.0
7.5°	713.0	710.0	709.0	704.0	700.0	698.0	696.0	689.0	686.0	684.0	680.0
10°	748.0	748.0	746.0	736.0	733.0	726.0	719.0	711.0	705.0	696.0	691.0
12.5°	793.0	796.0	789.0	780.0	773.0	759.0	746.0	735.0	723.0	710.0	702.0
15°	860.0	862.0	848.0	840.0	829.0	813.0	793.0	775.0	757.0	739.0	724.0
17.5°	959.0	956.0	936.0	928.0	909.0	882.0	855.0	831.0	804.0	779.0	760.0
20°	1102.0	1090.0	1038.0	1035.0	1011.0	973.0	934.0	899.0	863.0	831.0	799.0
22.5°	1276.0	1249.0	1211.0	1168.0	1122.0	1080.0	1034.0	985.0	940.0	900.0	865.0
25°	1503.0	1443.0	1408.0	1350.0	1310.0	1236.0	1172.0	1133.0	1072.0	1026.0	981.0
27.5°	1806.0	1711.0	1660.0	1597.0	1508.0	1456.0	1369.0	1294.0	1229.0	1153.0	1103.0
30°	2199.0	2129.0	2001.0	1913.0	1790.0	1664.0	1557.0	1459.0	1374.0	1283.0	1209.0
32.5°	2603.0	2559.0	2409.0	2245.0	2058.0	1873.0	1716.0	1595.0	1484.0	1382.0	1297.0
35°	2946.0	2855.0	2708.0	2536.0	2296.0	2082.0	1883.0	1729.0	1591.0	1464.0	1357.0
37.5°	3167.0	3127.0	2978.0	2783.0	2520.0	2289.0	2083.0	1901.0	1729.0	1563.0	1425.0
40°	3413.0	3390.0	3265.0	3026.0	2783.0	2500.0	2265.0	2073.0	1888.0	1690.0	1509.0
42.5°	3633.0	3654.0	3526.0	3316.0	3035.0	2716.0	2466.0	2253.0	2042.0	1840.0	1631.0
45°	3830.0	3868.0	3774.0	3579.0	3271.0	2922.0	2661.0	2429.0	2199.0	1978.0	1745.0
47.5°	3978.0	4019.0	3940.0	3787.0	3466.0	3094.0	2832.0	2572.0	2331.0	2077.0	1830.0
50°	4102.0	4126.0	4066.0	3932.0	3624.0	3261.0	2969.0	2696.0	2429.0	2155.0	1885.0
52.5°	4174.0	4188.0	4129.0	4032.0	3744.0	3385.0	3076.0	2782.0	2498.0	2209.0	1921.0
55°	4170.0	4219.0	4152.0	4074.0	3781.0	3444.0	3132.0	2831.0	2549.0	2244.0	1942.0
57.5°	4092.0	4164.0	4133.0	4036.0	3750.0	3440.0	3140.0	2859.0	2582.0	2256.0	1932.0
60°	3942.0	4041.0	4063.0	3925.0	3626.0	3330.0	3064.0	2827.0	2551.0	2203.0	1871.0
62.5°	3730.0	3810.0	3867.0	3679.0	3383.0	3102.0	2894.0	2707.0	2426.0	2046.0	1745.0
65°	3410.0	3447.0	3463.0	3289.0	2999.0	2812.0	2676.0	2515.0	2203.0	1823.0	1550.0
67.5°	2934.0	2929.0	2945.0	2864.0	2650.0	2552.0	2462.0	2287.0	1923.0	1568.0	1296.0
70°	2333.0	2437.0	2525.0	2439.0	2306.0	2208.0	2133.0	1926.0	1536.0	1211.0	985.0
72.5°	1899.0	1984.0	2032.0	1957.0	1828.0	1758.0	1659.0	1453.0	1081.0	861.0	676.0
75°	1604.0	1542.0	1571.0	1524.0	1405.0	1304.0	1247.0	1020.0	709.0	570.0	421.0
77.5°	1449.0	1350.0	1287.0	1186.0	1050.0	935.0	877.0	634.0	447.0	336.0	243.0
80°	1281.0	1144.0	980.0	817.0	700.0	629.0	589.0	362.0	246.0	195.0	140.0
82.5°	974.0	845.0	686.0	568.0	467.0	407.0	361.0	207.0	139.0	103.0	80.0
85°	624.0	575.0	525.0	467.0	391.0	314.0	242.0	151.0	102.0	59.0	44.0
87.5°	301.0	250.0	248.0	229.0	218.0	172.0	102.0	35.0	22.0	19.0	12.0
90°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
92.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
95°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
97.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
100°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
102.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
105°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
107.5°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
110°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8



REPORT NUMBER: P159902

CATALOG NUMBER: ENC-E02-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
115°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
117.5°	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
120°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
122.5°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
125°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
127.5°	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
130°	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
132.5°	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
135°	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
137.5°	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
140°	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
142.5°	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
145°	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9
147.5°	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1
150°	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1
152.5°	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7
155°	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7
157.5°	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0
160°	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3
162.5°	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5
165°	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0
167.5°	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1
170°	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4
172.5°	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6
175°	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5
177.5°	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1
180°	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8



REPORT NUMBER: P159902

CATALOG NUMBER: ENC-E02-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0
2.5°	651.0	650.0	648.0	648.0	647.0	646.0	645.0	645.0	646.0	644.0	643.0
5°	662.0	661.0	658.0	657.0	656.0	654.0	654.0	653.0	653.0	651.0	650.0
7.5°	675.0	673.0	671.0	670.0	667.0	667.0	667.0	669.0	669.0	669.0	670.0
10°	688.0	683.0	681.0	681.0	680.0	681.0	684.0	686.0	689.0	691.0	693.0
12.5°	695.0	690.0	688.0	686.0	689.0	689.0	694.0	700.0	705.0	710.0	712.0
15°	713.0	704.0	700.0	695.0	695.0	695.0	700.0	705.0	711.0	717.0	718.0
17.5°	744.0	728.0	720.0	709.0	706.0	702.0	702.0	704.0	708.0	713.0	713.0
20°	775.0	759.0	746.0	734.0	726.0	715.0	707.0	700.0	697.0	699.0	699.0
22.5°	831.0	812.0	796.0	776.0	758.0	744.0	724.0	707.0	694.0	690.0	687.0
25°	932.0	905.0	878.0	848.0	828.0	802.0	774.0	746.0	720.0	702.0	686.0
27.5°	1044.0	1007.0	968.0	921.0	889.0	850.0	813.0	773.0	741.0	714.0	685.0
30°	1151.0	1082.0	1026.0	967.0	915.0	862.0	816.0	769.0	734.0	702.0	667.0
32.5°	1204.0	1122.0	1046.0	972.0	909.0	848.0	798.0	745.0	708.0	672.0	630.0
35°	1241.0	1143.0	1052.0	966.0	895.0	828.0	771.0	716.0	672.0	631.0	583.0
37.5°	1287.0	1164.0	1057.0	961.0	878.0	802.0	738.0	676.0	626.0	582.0	532.0
40°	1347.0	1196.0	1063.0	947.0	852.0	766.0	700.0	633.0	580.0	533.0	487.0
42.5°	1430.0	1240.0	1070.0	930.0	823.0	733.0	665.0	600.0	544.0	494.0	448.0
45°	1512.0	1291.0	1088.0	925.0	804.0	712.0	640.0	571.0	512.0	459.0	406.0
47.5°	1573.0	1329.0	1107.0	928.0	793.0	690.0	613.0	536.0	470.0	412.0	358.0
50°	1612.0	1353.0	1124.0	936.0	783.0	661.0	570.0	492.0	424.0	367.0	313.0
52.5°	1632.0	1360.0	1130.0	933.0	757.0	615.0	524.0	449.0	384.0	328.0	280.0
55°	1638.0	1353.0	1117.0	905.0	712.0	569.0	482.0	411.0	348.0	295.0	252.0
57.5°	1617.0	1323.0	1071.0	848.0	652.0	525.0	437.0	368.0	308.0	261.0	222.0
60°	1549.0	1254.0	990.0	759.0	585.0	466.0	378.0	310.0	261.0	220.0	193.0
62.5°	1425.0	1137.0	880.0	648.0	493.0	385.0	302.0	243.0	203.0	174.0	160.0
65°	1270.0	977.0	715.0	515.0	377.0	287.0	217.0	178.0	150.0	133.0	126.0
67.5°	1038.0	764.0	535.0	367.0	260.0	195.0	147.0	126.0	114.0	109.0	107.0
70°	747.0	530.0	354.0	238.0	169.0	133.0	107.0	98.0	93.0	93.0	94.0
72.5°	492.0	327.0	216.0	152.0	120.0	100.0	87.0	83.0	83.0	85.0	86.0
75°	288.0	190.0	133.0	111.0	95.0	84.0	77.0	74.0	74.0	75.0	75.0
77.5°	170.0	117.0	95.0	84.0	77.0	72.0	68.0	64.0	63.0	63.0	66.0
80°	105.0	83.0	74.0	67.0	62.0	58.0	54.0	54.0	54.0	53.0	55.0
82.5°	68.0	59.0	58.0	56.0	50.0	46.0	42.0	42.0	44.0	42.0	43.0
85°	41.0	39.0	38.0	38.0	36.0	34.0	31.0	31.0	34.0	33.0	29.0
87.5°	11.0	10.0	13.0	12.0	14.0	14.0	14.0	16.0	21.0	27.0	20.0
90°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
92.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
95°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
97.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
100°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
102.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
105°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
107.5°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
110°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
112.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	0°
115°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°
117.5°	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°
120°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°
122.5°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°
125°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°
127.5°	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°
130°	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°
132.5°	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°
135°	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°
137.5°	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°
140°	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°
142.5°	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°
145°	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°
147.5°	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°
150°	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°
152.5°	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°
155°	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°
157.5°	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°
160°	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°
162.5°	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°
165°	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°
167.5°	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°
170°	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°
172.5°	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°
175°	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°
177.5°	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°
180°	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°
												110°

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REPORT NUMBER: P
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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°	165°	
649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	112.5°	21.2
642.0	643.0	641.0	640.0	641.0	642.0	639.0	638.0	637.0	636.0	637.0	115°	25.0
649.0	649.0	646.0	644.0	644.0	643.0	640.0	639.0	635.0	634.0	637.0	117.5°	29.5
669.0	668.0	665.0	662.0	661.0	661.0	654.0	651.0	649.0	643.0	644.0	120°	34.8
692.0	692.0	693.0	689.0	684.0	683.0	675.0	670.0	667.0	662.0	660.0	122.5°	40.9
710.0	707.0	706.0	700.0	695.0	693.0	686.0	682.0	678.0	673.0	672.0	125°	47.8
716.0	710.0	706.0	699.0	693.0	689.0	683.0	679.0	674.0	671.0	669.0	127.5°	55.3
710.0	704.0	698.0	690.0	682.0	677.0	670.0	664.0	662.0	658.0	652.0	130°	63.0
697.0	690.0	683.0	673.0	664.0	657.0	649.0	644.0	638.0	632.0	620.0	132.5°	70.5
681.0	673.0	666.0	653.0	644.0	636.0	627.0	619.0	612.0	600.0	582.0	135°	77.9
670.0	653.0	641.0	623.0	613.0	603.0	599.0	591.0	581.0	560.0	538.0	137.5°	85.3
654.0	623.0	601.0	583.0	569.0	557.0	550.0	541.0	531.0	511.0	488.0	140°	92.5
627.0	591.0	570.0	551.0	535.0	522.0	509.0	492.0	479.0	456.0	440.0	142.5°	99.2
586.0	556.0	537.0	519.0	498.0	481.0	465.0	445.0	426.0	403.0	389.0	145°	104.9
540.0	513.0	489.0	470.0	448.0	431.0	414.0	391.0	373.0	352.0	339.0	147.5°	110.1
492.0	463.0	435.0	413.0	393.0	374.0	359.0	337.0	318.0	298.0	291.0	150°	115.1
449.0	416.0	386.0	364.0	342.0	323.0	307.0	284.0	268.0	254.0	246.0	152.5°	119.7
407.0	372.0	344.0	321.0	299.0	279.0	258.0	240.0	226.0	220.0	209.0	155°	123.7
360.0	324.0	297.0	272.0	254.0	233.0	217.0	205.0	196.0	191.0	184.0	157.5°	127.0
312.0	282.0	254.0	231.0	209.0	191.0	181.0	175.0	172.0	168.0	165.0	160°	130.3
273.0	247.0	219.0	197.0	177.0	164.0	159.0	156.0	154.0	152.0	151.0	162.5°	133.5
246.0	218.0	193.0	172.0	157.0	150.0	148.0	146.0	144.0	143.0	142.0	165°	136.0
225.0	197.0	174.0	156.0	145.0	143.0	142.0	140.0	138.0	138.0	136.0	167.5°	137.1
200.0	176.0	156.0	143.0	137.0	136.0	135.0	134.0	133.0	133.0	132.0	170°	137.4
174.0	156.0	143.0	134.0	132.0	130.0	128.0	126.0	125.0	127.0	128.0	172.5°	138.6
148.0	137.0	129.0	126.0	124.0	121.0	119.0	117.0	117.0	119.0	122.0	175°	140.5
123.0	119.0	117.0	115.0	114.0	113.0	111.0	109.0	109.0	109.0	111.0	177.5°	141.1
106.0	104.0	104.0	103.0	102.0	102.0	100.0	98.0	98.0	98.0	98.0	180°	140.8
93.0	94.0	94.0	94.0	93.0	92.0	91.0	89.0	88.0	86.0	84.0		
86.0	85.0	84.0	83.0	82.0	81.0	80.0	79.0	77.0	75.0	73.0		
77.0	75.0	72.0	71.0	70.0	68.0	68.0	67.0	65.0	62.0	60.0		
67.0	65.0	62.0	60.0	60.0	59.0	57.0	56.0	53.0	50.0	48.0		
54.0	51.0	48.0	47.0	46.0	45.0	44.0	43.0	42.0	39.0	38.0		
40.0	37.0	34.0	33.0	32.0	30.0	29.0	29.0	29.0	26.0	24.0		
26.0	22.0	19.0	16.0	16.0	15.0	13.0	11.0	9.0	6.0	4.0		
13.0	7.0	4.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0		
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5		
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0		
8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8		
11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8		
14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7		
17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8		

'159902
 ENC-E02-LED-E1-SLL-ULG

REPORT NUMBER: P159902
 CATALOG NUMBER: ENC-E02-I

TION (continued):

CANDELA DISTRIBUTION (con

170°	175°	180°	185°	190°	195°	200°	205°	210°	215°		220°	225°
21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	0°	649.0	649.0
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	637.0	636.0
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	637.0	631.0
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	640.0	635.0
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	653.0	645.0
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	664.0	655.0
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	663.0	650.0
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	642.0	627.0
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	607.0	587.0
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	562.0	543.0
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	518.0	496.0
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	469.0	450.0
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	419.0	402.0
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	371.0	355.0
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	323.0	307.0
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	277.0	262.0
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	234.0	223.0
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	203.0	193.0
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	178.0	170.0
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	160.0	154.0
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	147.0	142.0
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	139.0	135.0
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	133.0	130.0
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	129.0	125.0
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	124.0	121.0
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	119.0	115.0
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	110.0	105.0
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	97.0	93.0
										70°	82.0	81.0
										72.5°	69.0	68.0
										75°	58.0	58.0
										77.5°	48.0	47.0
										80°	37.0	35.0
										82.5°	21.0	20.0
										85°	3.0	2.0
										87.5°	0.0	0.0
										90°	0.1	0.1
										92.5°	0.1	0.1
										95°	0.5	0.5
										97.5°	1.5	1.5
										100°	5.0	5.0
										102.5°	8.8	8.8
										105°	11.8	11.8
										107.5°	14.7	14.7
										110°	17.8	17.8



REPORT NUMBER: P159902

CATALOG NUMBER: ENC-E02-LED-E1-SLL

LED-E1-SLL-ULG

tinued):

CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°	270°		220°	225°	230°
649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	112.5°	21.2	21.2	21.2
637.0	638.0	642.0	644.0	645.0	645.0	646.0	648.0	649.0	115°	25.0	25.0	25.0
631.0	633.0	635.0	638.0	639.0	639.0	640.0	643.0	646.0	117.5°	29.5	29.5	29.5
632.0	631.0	632.0	634.0	634.0	634.0	635.0	638.0	641.0	120°	34.8	34.8	34.8
640.0	634.0	630.0	629.0	628.0	628.0	630.0	634.0	637.0	122.5°	40.9	40.9	40.9
647.0	639.0	631.0	626.0	622.0	620.0	621.0	625.0	631.0	125°	47.8	47.8	47.8
641.0	629.0	620.0	613.0	607.0	605.0	606.0	609.0	616.0	127.5°	55.3	55.3	55.3
615.0	602.0	592.0	587.0	584.0	583.0	585.0	591.0	597.0	130°	63.0	63.0	63.0
578.0	571.0	562.0	559.0	553.0	553.0	552.0	552.0	555.0	132.5°	70.5	70.5	70.5
537.0	533.0	524.0	517.0	510.0	509.0	502.0	503.0	502.0	135°	77.9	77.9	77.9
490.0	485.0	474.0	464.0	456.0	451.0	443.0	442.0	439.0	137.5°	85.3	85.3	85.3
443.0	435.0	422.0	412.0	402.0	395.0	388.0	381.0	379.0	140°	92.5	92.5	92.5
395.0	388.0	373.0	364.0	350.0	340.0	334.0	324.0	319.0	142.5°	99.2	99.2	99.2
348.0	340.0	323.0	306.0	296.0	284.0	275.0	262.0	256.0	145°	104.9	104.9	104.9
296.0	291.0	274.0	256.0	247.0	231.0	220.0	209.0	207.0	147.5°	110.1	110.1	110.1
254.0	243.0	230.0	216.0	201.0	192.0	187.0	185.0	184.0	150°	115.1	115.1	115.1
215.0	208.0	196.0	186.0	179.0	177.0	177.0	177.0	178.0	152.5°	119.7	119.7	119.7
189.0	180.0	174.0	171.0	171.0	172.0	173.0	175.0	177.0	155°	123.7	123.7	123.7
167.0	164.0	164.0	163.0	165.0	167.0	170.0	173.0	175.0	157.5°	127.0	127.0	127.0
152.0	153.0	155.0	156.0	160.0	163.0	166.0	168.0	170.0	160°	130.3	130.3	130.3
140.0	141.0	143.0	146.0	149.0	153.0	156.0	158.0	159.0	162.5°	133.5	133.5	133.5
133.0	133.0	136.0	139.0	143.0	146.0	149.0	150.0	152.0	165°	136.0	136.0	136.0
127.0	128.0	131.0	133.0	135.0	137.0	139.0	140.0	144.0	167.5°	137.1	137.1	137.1
123.0	124.0	125.0	123.0	125.0	127.0	129.0	131.0	133.0	170°	137.4	137.4	137.4
118.0	116.0	114.0	114.0	115.0	117.0	121.0	124.0	127.0	172.5°	138.6	138.6	138.6
112.0	109.0	106.0	105.0	106.0	108.0	112.0	116.0	118.0	175°	140.5	140.5	140.5
102.0	101.0	100.0	99.0	100.0	102.0	106.0	109.0	112.0	177.5°	141.1	141.1	141.1
92.0	91.0	90.0	91.0	92.0	94.0	98.0	101.0	104.0	180°	140.8	140.8	140.8
80.0	80.0	80.0	81.0	82.0	86.0	89.0	93.0	94.0				
67.0	69.0	69.0	69.0	71.0	76.0	80.0	84.0	86.0				
57.0	56.0	58.0	58.0	60.0	64.0	67.0	70.0	71.0				
46.0	46.0	47.0	47.0	47.0	49.0	51.0	51.0	51.0				
34.0	33.0	32.0	30.0	30.0	31.0	31.0	31.0	33.0				
16.0	13.0	13.0	12.0	11.0	11.0	11.0	13.0	14.0				
1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0				
0.0	1.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0				
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1				
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1				
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5				
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0				
8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8				
11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8				
14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7				
17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8				



REPORT NUMBER: P159902

CATALOG NUMBER: ENC-E02-LED-E1-SLL-ULG

.-ULG

CANDELA DISTRIBUTION (continued):

235°	240°	245°	250°	255°	260°	265°	270°		275°	280°	285°	290°
21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	0°	649.0	649.0	649.0	649.0
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	648.0	650.0	650.0	652.0
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	646.0	648.0	649.0	652.0
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	643.0	647.0	649.0	653.0
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	640.0	646.0	650.0	657.0
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	637.0	643.0	650.0	657.0
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	622.0	628.0	638.0	648.0
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	600.0	606.0	614.0	623.0
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	558.0	560.0	568.0	578.0
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	499.0	498.0	502.0	513.0
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	432.0	436.0	433.0	446.0
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	370.0	373.0	377.0	383.0
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	311.0	310.0	313.0	318.0
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	250.0	249.0	250.0	255.0
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	205.0	202.0	205.0	212.0
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	185.0	185.0	188.0	193.0
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	179.0	180.0	182.0	186.0
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	178.0	178.0	178.0	180.0
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	176.0	175.0	175.0	175.0
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	171.0	170.0	170.0	170.0
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	160.0	161.0	161.0	162.0
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	153.0	155.0	156.0	158.0
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	146.0	150.0	153.0	155.0
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	135.0	139.0	142.0	147.0
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	129.0	131.0	132.0	135.0
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	121.0	123.0	125.0	126.0
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	114.0	116.0	119.0	120.0
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	106.0	109.0	111.0	112.0
								70°	97.0	101.0	102.0	104.0
								72.5°	88.0	90.0	91.0	93.0
								75°	74.0	77.0	79.0	80.0
								77.5°	55.0	58.0	61.0	64.0
								80°	35.0	38.0	40.0	42.0
								82.5°	16.0	19.0	20.0	22.0
								85°	3.0	3.0	3.0	4.0
								87.5°	3.0	4.0	4.0	4.0
								90°	0.1	0.1	0.1	0.1
								92.5°	0.1	0.1	0.1	0.1
								95°	0.5	0.5	0.5	0.5
								97.5°	1.5	1.5	1.5	1.5
								100°	5.0	5.0	5.0	5.0
								102.5°	8.8	8.8	8.8	8.8
								105°	11.8	11.8	11.8	11.8
								107.5°	14.7	14.7	14.7	14.7
								110°	17.8	17.8	17.8	17.8



REPORT NUMBER: P159902
 CATALOG NUMBER: ENC-E02-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°	325°		275°	280°	285°	290°	295°
649.0	649.0	649.0	649.0	649.0	649.0	649.0	112.5°	21.2	21.2	21.2	21.2	21.2
652.0	653.0	655.0	655.0	657.0	657.0	659.0	115°	25.0	25.0	25.0	25.0	25.0
654.0	656.0	659.0	660.0	664.0	666.0	668.0	117.5°	29.5	29.5	29.5	29.5	29.5
657.0	660.0	664.0	667.0	672.0	675.0	678.0	120°	34.8	34.8	34.8	34.8	34.8
662.0	667.0	674.0	677.0	681.0	688.0	693.0	122.5°	40.9	40.9	40.9	40.9	40.9
669.0	676.0	685.0	693.0	698.0	708.0	716.0	125°	47.8	47.8	47.8	47.8	47.8
659.0	674.0	685.0	700.0	713.0	730.0	744.0	127.5°	55.3	55.3	55.3	55.3	55.3
635.0	649.0	668.0	687.0	707.0	736.0	764.0	130°	63.0	63.0	63.0	63.0	63.0
591.0	607.0	629.0	653.0	682.0	720.0	760.0	132.5°	70.5	70.5	70.5	70.5	70.5
527.0	541.0	565.0	592.0	625.0	672.0	730.0	135°	77.9	77.9	77.9	77.9	77.9
459.0	478.0	501.0	530.0	567.0	623.0	685.0	137.5°	85.3	85.3	85.3	85.3	85.3
394.0	414.0	439.0	471.0	514.0	574.0	645.0	140°	92.5	92.5	92.5	92.5	92.5
327.0	350.0	373.0	413.0	456.0	519.0	598.0	142.5°	99.2	99.2	99.2	99.2	99.2
267.0	284.0	312.0	348.0	398.0	460.0	544.0	145°	104.9	104.9	104.9	104.9	104.9
219.0	233.0	260.0	295.0	340.0	401.0	474.0	147.5°	110.1	110.1	110.1	110.1	110.1
200.0	211.0	230.0	255.0	295.0	354.0	416.0	150°	115.1	115.1	115.1	115.1	115.1
193.0	203.0	217.0	239.0	270.0	315.0	368.0	152.5°	119.7	119.7	119.7	119.7	119.7
186.0	196.0	212.0	232.0	258.0	290.0	335.0	155°	123.7	123.7	123.7	123.7	123.7
180.0	191.0	208.0	230.0	254.0	282.0	317.0	157.5°	127.0	127.0	127.0	127.0	127.0
174.0	184.0	201.0	226.0	252.0	282.0	317.0	160°	130.3	130.3	130.3	130.3	130.3
165.0	175.0	193.0	219.0	248.0	281.0	321.0	162.5°	133.5	133.5	133.5	133.5	133.5
160.0	169.0	188.0	217.0	248.0	284.0	327.0	165°	136.0	136.0	136.0	136.0	136.0
157.0	165.0	187.0	220.0	256.0	298.0	345.0	167.5°	137.1	137.1	137.1	137.1	137.1
152.0	161.0	184.0	221.0	266.0	318.0	377.0	170°	137.4	137.4	137.4	137.4	137.4
138.0	149.0	174.0	214.0	263.0	327.0	405.0	172.5°	138.6	138.6	138.6	138.6	138.6
127.0	134.0	155.0	197.0	248.0	317.0	410.0	175°	140.5	140.5	140.5	140.5	140.5
122.0	126.0	140.0	174.0	224.0	298.0	395.0	177.5°	141.1	141.1	141.1	141.1	141.1
115.0	117.0	127.0	154.0	192.0	264.0	358.0	180°	140.8	140.8	140.8	140.8	140.8
106.0	107.0	115.0	132.0	160.0	210.0	299.0						
95.0	97.0	102.0	114.0	132.0	161.0	217.0						
82.0	83.0	85.0	93.0	104.0	124.0	154.0						
66.0	66.0	68.0	72.0	78.0	92.0	110.0						
43.0	46.0	48.0	55.0	57.0	67.0	78.0						
25.0	27.0	28.0	30.0	35.0	40.0	48.0						
4.0	6.0	6.0	8.0	10.0	11.0	13.0						
5.0	5.0	5.0	5.0	6.0	6.0	6.0						
0.1	0.1	0.1	0.1	0.1	0.1	0.1						
0.1	0.1	0.1	0.1	0.1	0.1	0.1						
0.5	0.5	0.5	0.5	0.5	0.5	0.5						
1.5	1.5	1.5	1.5	1.5	1.5	1.5						
5.0	5.0	5.0	5.0	5.0	5.0	5.0						
8.8	8.8	8.8	8.8	8.8	8.8	8.8						
11.8	11.8	11.8	11.8	11.8	11.8	11.8						
14.7	14.7	14.7	14.7	14.7	14.7	14.7						
17.8	17.8	17.8	17.8	17.8	17.8	17.8						



REPORT NUMBER: P159902

CATALOG NUMBER: ENC-E02-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

300°	305°	310°	315°	320°	325°		330°	335°	340°	345°	350°	355°
21.2	21.2	21.2	21.2	21.2	21.2	0°	649.0	649.0	649.0	649.0	649.0	649.0
25.0	25.0	25.0	25.0	25.0	25.0	2.5°	660.0	659.0	661.0	663.0	662.0	668.0
29.5	29.5	29.5	29.5	29.5	29.5	5°	671.0	670.0	673.0	675.0	676.0	680.0
34.8	34.8	34.8	34.8	34.8	34.8	7.5°	682.0	683.0	688.0	689.0	692.0	697.0
40.9	40.9	40.9	40.9	40.9	40.9	10°	695.0	700.0	706.0	708.0	713.0	719.0
47.8	47.8	47.8	47.8	47.8	47.8	12.5°	721.0	728.0	736.0	742.0	752.0	764.0
55.3	55.3	55.3	55.3	55.3	55.3	15°	757.0	774.0	787.0	799.0	814.0	828.0
63.0	63.0	63.0	63.0	63.0	63.0	17.5°	789.0	822.0	850.0	875.0	899.0	921.0
70.5	70.5	70.5	70.5	70.5	70.5	20°	804.0	856.0	900.0	946.0	992.0	1023.0
77.9	77.9	77.9	77.9	77.9	77.9	22.5°	790.0	863.0	931.0	1005.0	1075.0	1138.0
85.3	85.3	85.3	85.3	85.3	85.3	25°	760.0	850.0	951.0	1057.0	1163.0	1259.0
92.5	92.5	92.5	92.5	92.5	92.5	27.5°	732.0	842.0	959.0	1080.0	1206.0	1321.0
99.2	99.2	99.2	99.2	99.2	99.2	30°	695.0	815.0	943.0	1068.0	1205.0	1340.0
104.9	104.9	104.9	104.9	104.9	104.9	32.5°	640.0	762.0	897.0	1033.0	1185.0	1335.0
110.1	110.1	110.1	110.1	110.1	110.1	35°	575.0	697.0	835.0	978.0	1147.0	1316.0
115.1	115.1	115.1	115.1	115.1	115.1	37.5°	504.0	624.0	768.0	921.0	1096.0	1285.0
119.7	119.7	119.7	119.7	119.7	119.7	40°	444.0	551.0	700.0	866.0	1050.0	1246.0
123.7	123.7	123.7	123.7	123.7	123.7	42.5°	396.0	493.0	634.0	802.0	999.0	1201.0
127.0	127.0	127.0	127.0	127.0	127.0	45°	368.0	449.0	578.0	745.0	946.0	1154.0
130.3	130.3	130.3	130.3	130.3	130.3	47.5°	362.0	427.0	540.0	702.0	895.0	1104.0
133.5	133.5	133.5	133.5	133.5	133.5	50°	368.0	428.0	523.0	675.0	856.0	1059.0
136.0	136.0	136.0	136.0	136.0	136.0	52.5°	380.0	438.0	525.0	665.0	840.0	1032.0
137.1	137.1	137.1	137.1	137.1	137.1	55°	399.0	465.0	546.0	674.0	838.0	1021.0
137.4	137.4	137.4	137.4	137.4	137.4	57.5°	437.0	512.0	594.0	711.0	862.0	1033.0
138.6	138.6	138.6	138.6	138.6	138.6	60°	485.0	575.0	674.0	798.0	920.0	1073.0
140.5	140.5	140.5	140.5	140.5	140.5	62.5°	514.0	637.0	773.0	917.0	1042.0	1167.0
141.1	141.1	141.1	141.1	141.1	141.1	65°	511.0	663.0	855.0	1060.0	1216.0	1336.0
140.8	140.8	140.8	140.8	140.8	140.8	67.5°	478.0	644.0	835.0	1068.0	1303.0	1472.0
						70°	399.0	554.0	777.0	1058.0	1347.0	1564.0
						72.5°	318.0	455.0	668.0	933.0	1218.0	1440.0
						75°	212.0	321.0	493.0	716.0	923.0	1116.0
						77.5°	144.0	203.0	308.0	470.0	641.0	799.0
						80°	96.0	127.0	176.0	259.0	359.0	460.0
						82.5°	56.0	70.0	90.0	128.0	190.0	268.0
						85°	15.0	19.0	25.0	33.0	59.0	104.0
						87.5°	6.0	5.0	5.0	5.0	5.0	5.0
						90°	0.1	0.1	0.1	0.1	0.1	0.1
						92.5°	0.1	0.1	0.1	0.1	0.1	0.1
						95°	0.5	0.5	0.5	0.5	0.5	0.5
						97.5°	1.5	1.5	1.5	1.5	1.5	1.5
						100°	5.0	5.0	5.0	5.0	5.0	5.0
						102.5°	8.8	8.8	8.8	8.8	8.8	8.8
						105°	11.8	11.8	11.8	11.8	11.8	11.8
						107.5°	14.7	14.7	14.7	14.7	14.7	14.7
						110°	17.8	17.8	17.8	17.8	17.8	17.8



REPORT NUMBER: P159902

CATALOG NUMBER: ENC-E02-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

360°		330°	335°	340°	345°	350°	355°	360°
649.0	112.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2
663.0	115°	25.0	25.0	25.0	25.0	25.0	25.0	25.0
679.0	117.5°	29.5	29.5	29.5	29.5	29.5	29.5	29.5
698.0	120°	34.8	34.8	34.8	34.8	34.8	34.8	34.8
727.0	122.5°	40.9	40.9	40.9	40.9	40.9	40.9	40.9
769.0	125°	47.8	47.8	47.8	47.8	47.8	47.8	47.8
844.0	127.5°	55.3	55.3	55.3	55.3	55.3	55.3	55.3
941.0	130°	63.0	63.0	63.0	63.0	63.0	63.0	63.0
1060.0	132.5°	70.5	70.5	70.5	70.5	70.5	70.5	70.5
1194.0	135°	77.9	77.9	77.9	77.9	77.9	77.9	77.9
1347.0	137.5°	85.3	85.3	85.3	85.3	85.3	85.3	85.3
1441.0	140°	92.5	92.5	92.5	92.5	92.5	92.5	92.5
1461.0	142.5°	99.2	99.2	99.2	99.2	99.2	99.2	99.2
1475.0	145°	104.9	104.9	104.9	104.9	104.9	104.9	104.9
1479.0	147.5°	110.1	110.1	110.1	110.1	110.1	110.1	110.1
1473.0	150°	115.1	115.1	115.1	115.1	115.1	115.1	115.1
1449.0	152.5°	119.7	119.7	119.7	119.7	119.7	119.7	119.7
1418.0	155°	123.7	123.7	123.7	123.7	123.7	123.7	123.7
1379.0	157.5°	127.0	127.0	127.0	127.0	127.0	127.0	127.0
1331.0	160°	130.3	130.3	130.3	130.3	130.3	130.3	130.3
1286.0	162.5°	133.5	133.5	133.5	133.5	133.5	133.5	133.5
1251.0	165°	136.0	136.0	136.0	136.0	136.0	136.0	136.0
1229.0	167.5°	137.1	137.1	137.1	137.1	137.1	137.1	137.1
1232.0	170°	137.4	137.4	137.4	137.4	137.4	137.4	137.4
1263.0	172.5°	138.6	138.6	138.6	138.6	138.6	138.6	138.6
1341.0	175°	140.5	140.5	140.5	140.5	140.5	140.5	140.5
1489.0	177.5°	141.1	141.1	141.1	141.1	141.1	141.1	141.1
1634.0	180°	140.8	140.8	140.8	140.8	140.8	140.8	140.8
1774.0								
1682.0								
1284.0								
924.0								
536.0								
335.0								
145.0								
5.0								
0.1								
0.1								
0.5								
1.5								
5.0								
8.8								
11.8								
14.7								
17.8								

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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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