

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: P180326

Luminaire Tested: **ICS-E02-LED-E1-RW-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180326
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-E02-LED-E1-RW-8030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4746.1 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): 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

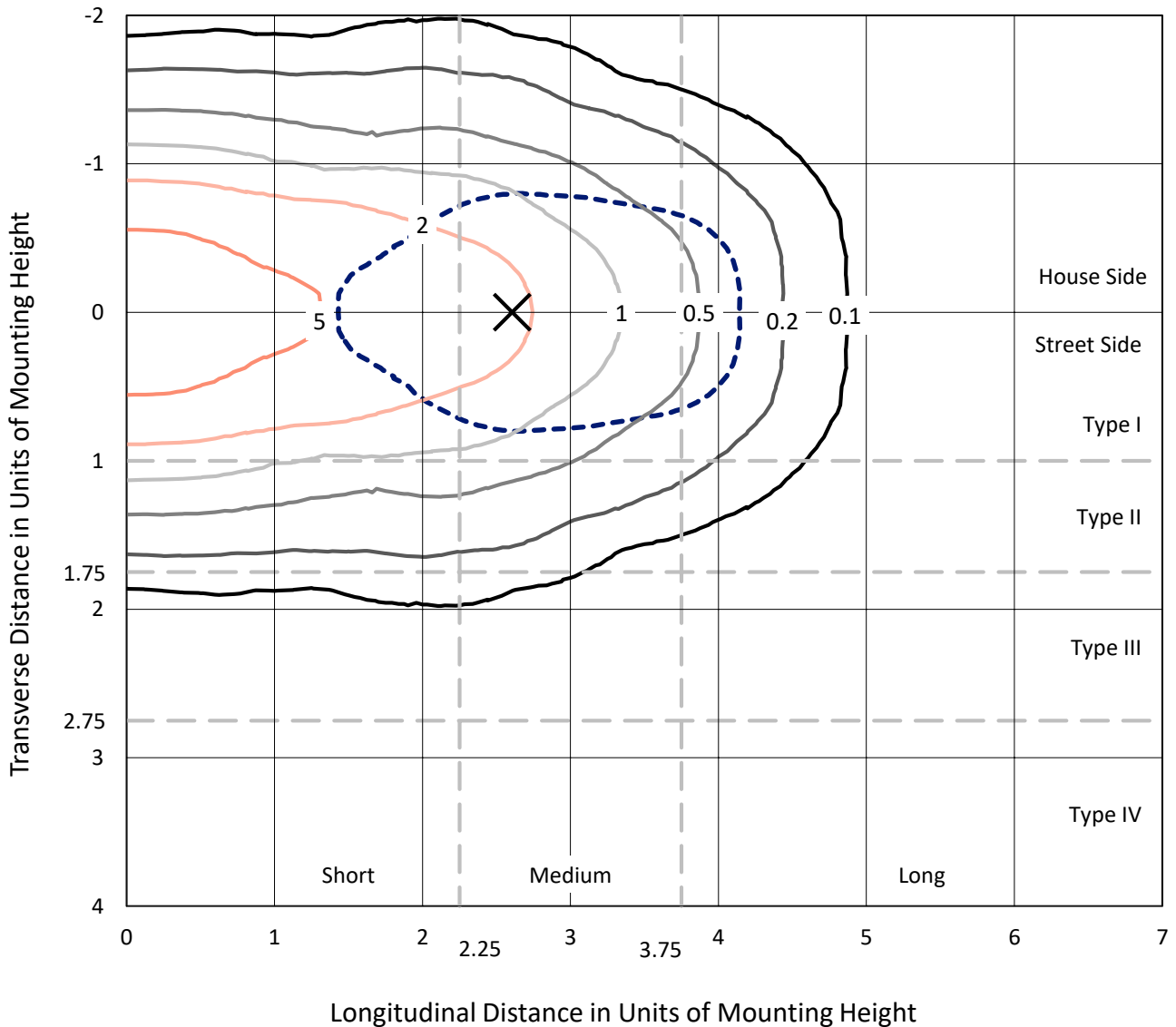


REPORT NUMBER: P180326

CATALOG NUMBER: ICS-E02-LED-E1-RW-8030

Iso-Footcandle Lines of Horizontal Illumination

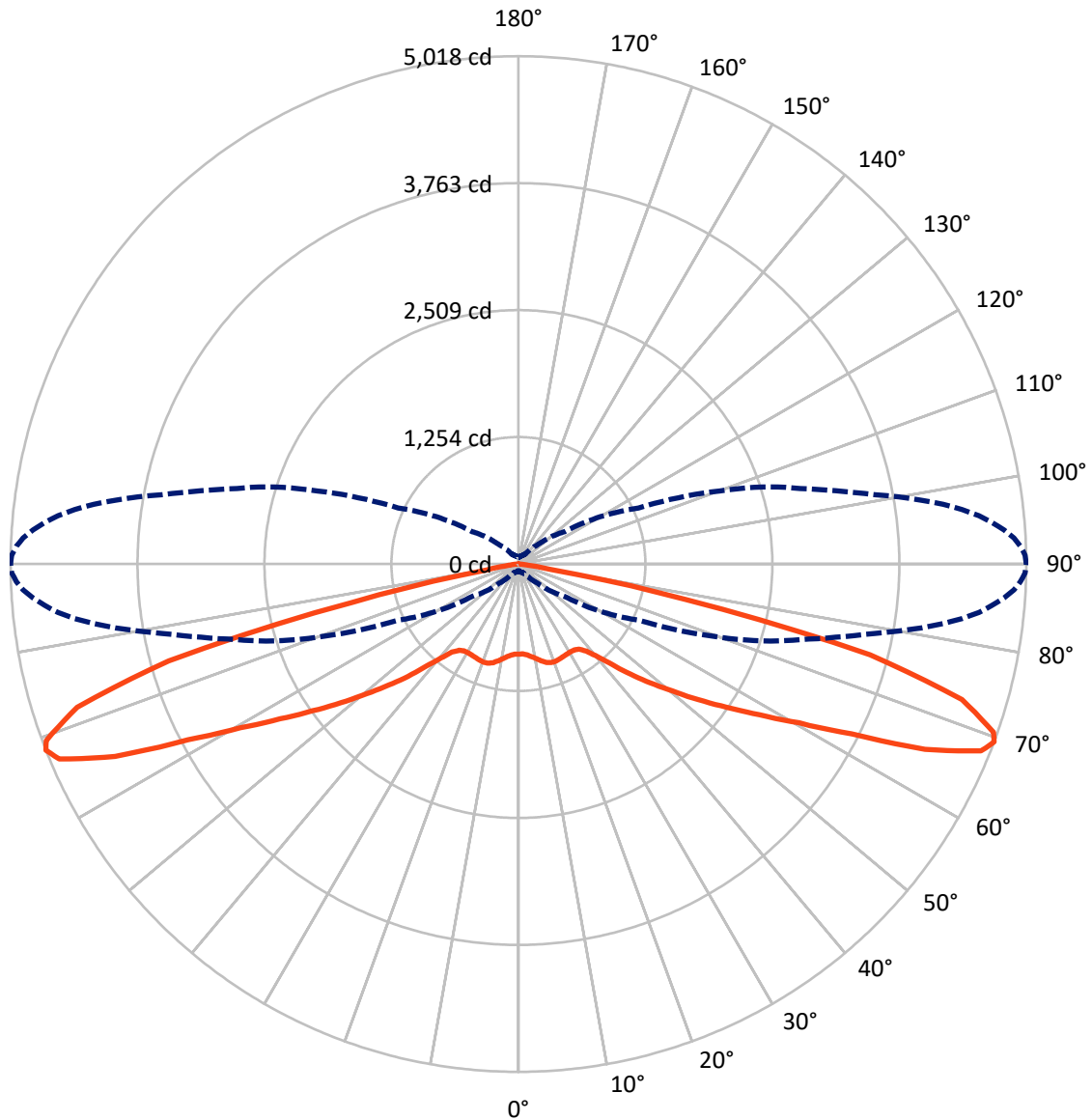
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type I - Short - Full Cutoff

REPORT NUMBER: P180326
CATALOG NUMBER: ICS-E02-LED-E1-RW-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P180326

CATALOG NUMBER: ICS-E02-LED-E1-RW-8030

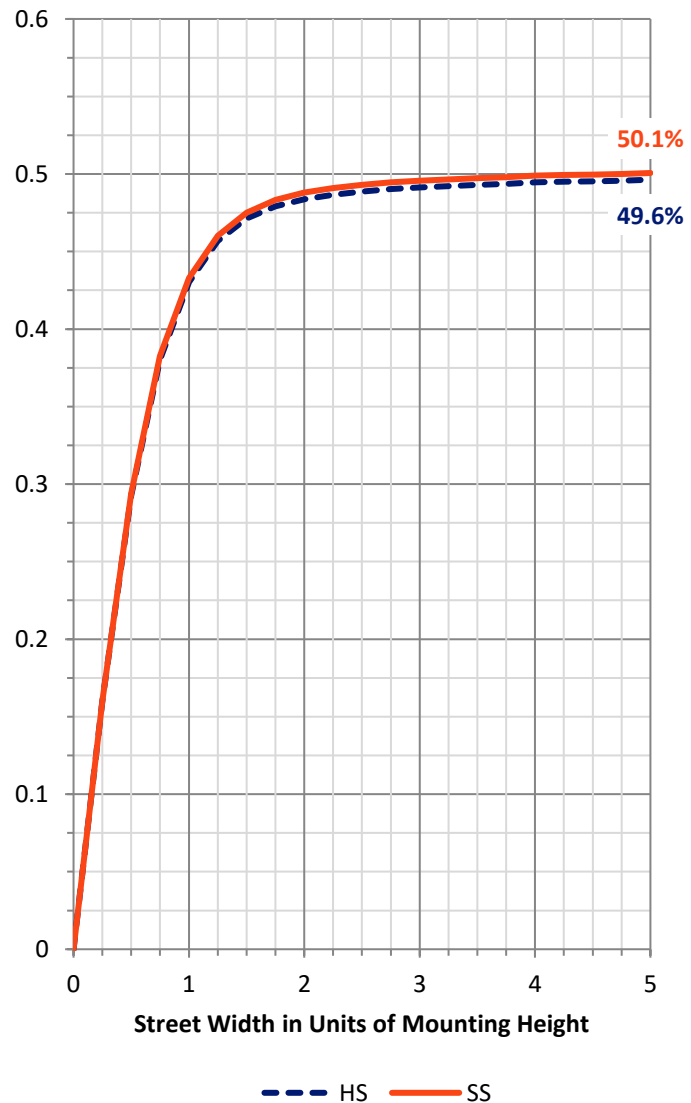
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2373.0	0.0	2373.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2373.0	0.0	2373.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4746.1	0.0	4746.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	1.8
10°-20°	275.2	5.8
20°-30°	445.8	9.4
30°-40°	555.6	11.7
40°-50°	694.3	14.6
50°-60°	857.3	18.1
60°-70°	1065.2	22.4
70°-80°	707.2	14.9
80°-90°	58.4	1.2
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°	4746.1	100.0
0°-180°	4746.1	100.0



REPORT NUMBER: P180326

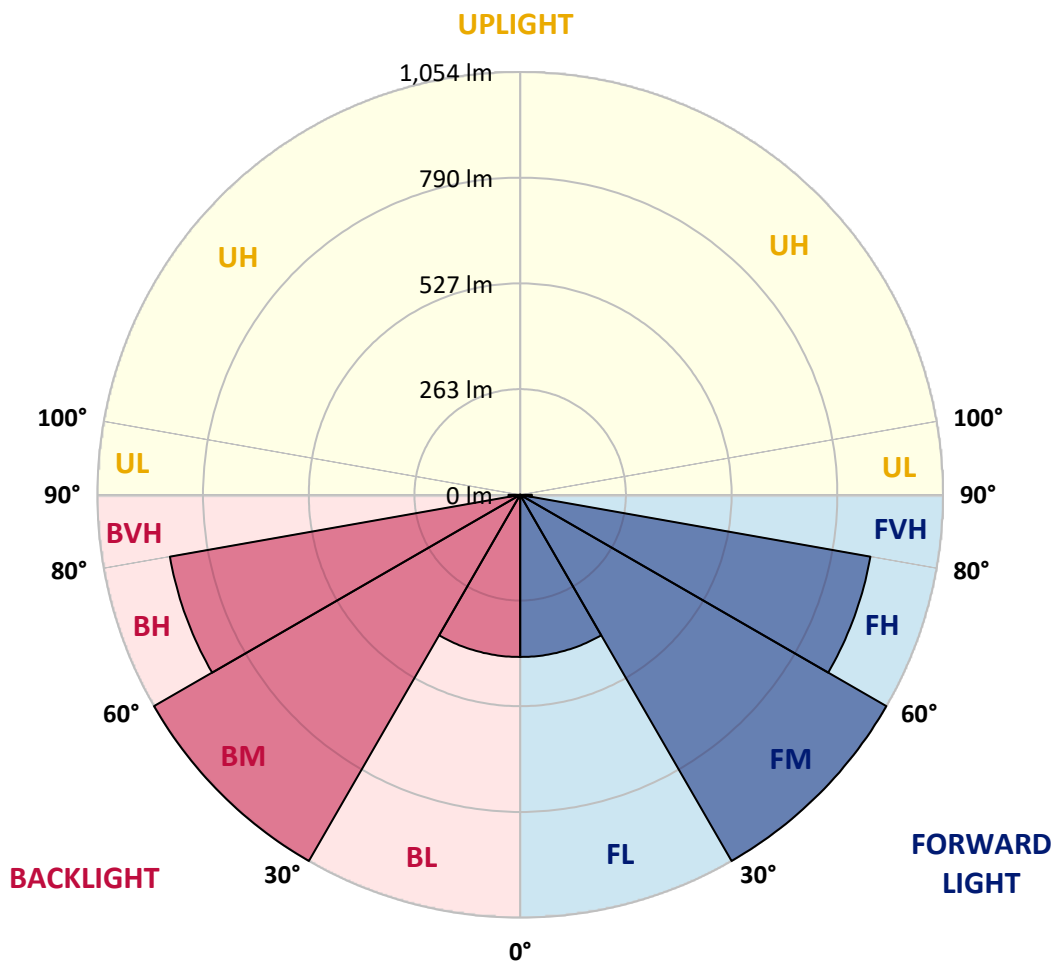
CATALOG NUMBER: ICS-E02-LED-E1-RW-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	404.1	8.5			
FM (30°-60°)	1053.6	22.2			
FH (60°-80°)	886.2	18.7			G1/1800
FVH (80°-90°)	29.2	0.6			G1/100
BL (0°-30°)	404.1	8.5	B1/500		
BM (30°-60°)	1053.6	22.2	B2/2500		
BH (60°-80°)	886.2	18.7	B2/1000		G2/1000
BVH (80°-90°)	29.2	0.6			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 I Short





REPORT NUMBER: P180326

CATALOG NUMBER: ICS-E02-LED-E1-RW-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3
2.5°	893.3	894.1	893.6	894.6	894.4	894.4	893.8	892.8	892.2	891.8	891.9
5°	901.9	900.9	902.4	904.0	903.4	903.8	903.4	903.4	903.0	902.9	902.8
7.5°	911.0	910.8	911.8	915.8	916.4	917.9	919.6	920.9	921.2	921.4	921.2
10°	918.9	919.2	921.6	927.5	930.6	935.4	940.2	944.0	945.4	946.2	946.1
12.5°	925.2	925.5	929.2	938.4	945.8	954.9	965.2	971.1	973.6	974.1	974.5
15°	925.7	926.5	933.0	948.0	962.7	977.6	990.0	997.9	999.9	1001.3	1001.4
17.5°	919.2	919.6	930.8	952.8	977.4	1000.7	1013.6	1017.2	1017.9	1018.4	1018.2
20°	902.0	903.2	918.9	951.6	989.0	1019.4	1032.8	1028.0	1025.6	1025.3	1025.1
22.5°	874.0	873.8	894.4	938.4	991.3	1034.1	1046.0	1033.4	1025.9	1024.3	1023.3
25°	829.0	832.0	856.1	908.8	978.4	1037.4	1055.4	1036.1	1025.4	1023.0	1020.0
27.5°	780.1	781.9	807.5	864.0	948.3	1026.0	1059.9	1041.7	1029.7	1026.3	1022.9
30°	723.2	725.4	752.8	811.8	900.0	996.6	1058.6	1054.4	1040.3	1036.3	1032.0
32.5°	667.4	670.0	694.6	759.1	849.0	956.4	1051.1	1072.4	1057.9	1053.5	1049.0
35°	609.7	613.6	643.4	708.8	799.9	911.6	1039.4	1095.4	1087.4	1083.5	1079.6
37.5°	561.8	562.6	591.5	660.1	754.3	868.8	1024.0	1124.5	1130.3	1130.3	1130.9
40°	508.4	513.2	542.2	614.5	713.0	832.6	1009.3	1164.0	1194.3	1199.8	1204.1
42.5°	460.6	461.1	490.5	565.2	668.2	803.4	1001.2	1211.6	1276.3	1288.1	1300.0
45°	410.2	412.2	438.8	511.0	616.6	769.0	1001.0	1266.6	1369.9	1389.7	1408.1
47.5°	362.6	363.4	391.4	458.6	557.3	720.9	999.2	1325.6	1466.2	1495.5	1519.4
50°	317.0	316.3	343.8	408.5	498.8	657.8	983.7	1392.4	1570.0	1603.3	1632.8
52.5°	264.8	268.4	297.0	358.8	445.6	593.8	938.6	1465.6	1678.0	1716.6	1753.6
55°	213.7	215.2	245.8	303.6	391.8	534.0	860.2	1532.9	1783.3	1827.1	1868.2
57.5°	157.4	162.0	188.9	245.9	337.0	483.6	760.4	1567.9	1872.6	1923.0	1971.9
60°	111.2	114.7	138.6	186.4	277.0	430.8	674.6	1548.4	1944.4	2008.8	2067.6
62.5°	86.6	89.4	108.4	139.6	216.0	377.8	613.0	1485.3	2024.2	2108.1	2188.3
65°	76.0	78.5	95.7	111.7	161.3	323.8	579.4	1418.8	2131.0	2254.7	2366.5
67.5°	68.6	71.6	86.6	97.8	131.4	282.5	570.5	1376.7	2183.4	2344.4	2495.1
69°	65.3	68.4	81.8	91.2	122.0	267.9	555.3	1310.6	2112.6	2284.8	2449.4
70°	63.3	65.8	78.2	87.8	119.0	257.8	530.0	1228.1	2015.7	2189.4	2361.5
72.5°	58.8	60.0	70.9	80.2	110.4	208.4	407.6	912.1	1594.9	1764.4	1931.3
75°	51.9	53.4	63.6	72.7	86.1	129.4	258.0	564.2	1073.9	1200.1	1355.0
77.5°	44.8	46.1	55.0	69.4	66.8	80.8	154.2	314.0	609.6	683.0	783.7
80°	36.0	37.5	45.4	68.8	55.2	62.8	110.9	219.6	299.3	321.2	345.3
82.5°	26.4	27.6	35.4	55.7	42.3	47.4	84.6	186.1	213.8	223.7	228.6
85°	13.4	13.6	22.6	34.0	26.8	24.6	47.6	127.4	145.1	147.6	151.3
87.5°	2.3	2.3	5.0	5.8	6.6	4.0	6.1	21.8	25.2	25.0	27.1
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: P180326

CATALOG NUMBER: ICS-E02-LED-E1-RW-8030

CANDELA DISTRIBUTION (continued):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3
2.5°	892.2	892.0	892.4	892.4	892.7	891.8	891.5	891.3	891.3	891.8	891.3
5°	903.0	903.0	903.2	903.6	903.5	902.9	902.8	903.0	902.2	902.0	902.4
7.5°	921.7	921.4	921.0	921.8	922.3	922.4	922.9	922.4	922.2	922.0	922.4
10°	947.0	946.9	947.0	947.8	948.4	948.6	949.2	948.5	948.2	948.8	948.8
12.5°	975.5	974.9	976.2	976.6	977.4	978.9	978.2	979.2	978.4	979.7	979.7
15°	1002.2	1002.6	1003.7	1004.2	1004.4	1005.6	1005.8	1006.5	1005.5	1005.8	1007.8
17.5°	1018.9	1018.7	1019.4	1019.8	1020.5	1021.2	1022.3	1023.0	1022.4	1022.5	1023.5
20°	1024.5	1023.7	1024.0	1024.3	1024.4	1025.0	1025.9	1026.0	1026.0	1026.3	1027.3
22.5°	1021.7	1020.5	1019.2	1019.3	1019.4	1019.2	1019.8	1020.2	1020.7	1021.2	1022.5
25°	1017.9	1015.0	1012.6	1012.4	1011.7	1011.7	1012.0	1012.1	1012.6	1013.4	1014.4
27.5°	1018.3	1014.4	1010.6	1009.2	1007.8	1007.0	1006.6	1006.0	1006.5	1007.3	1008.3
30°	1027.0	1020.9	1015.4	1013.7	1011.7	1010.0	1008.5	1006.8	1005.8	1006.5	1007.0
32.5°	1042.3	1036.3	1030.8	1028.0	1025.2	1022.2	1019.4	1017.6	1015.4	1014.6	1014.4
35°	1074.6	1070.0	1065.0	1061.8	1057.2	1054.8	1051.4	1046.6	1043.0	1042.7	1040.7
37.5°	1129.3	1127.0	1123.5	1120.2	1118.7	1112.3	1108.3	1105.8	1101.7	1104.2	1100.0
40°	1207.8	1211.6	1214.9	1213.0	1213.6	1211.9	1209.5	1211.8	1209.1	1208.4	1209.1
42.5°	1308.5	1321.8	1331.2	1334.1	1341.6	1344.5	1350.0	1358.5	1356.7	1366.4	1368.1
45°	1425.1	1444.2	1462.8	1476.6	1491.8	1508.8	1525.9	1539.6	1550.2	1549.6	1561.3
47.5°	1544.1	1572.3	1597.0	1617.8	1645.0	1670.1	1697.7	1725.6	1745.9	1753.4	1756.0
50°	1664.6	1697.2	1731.0	1761.5	1798.2	1838.4	1881.9	1925.4	1947.2	1965.0	1976.8
52.5°	1790.8	1828.1	1864.1	1907.3	1952.5	2005.6	2060.0	2121.9	2154.8	2188.2	2206.0
55°	1910.9	1952.6	1989.7	2047.5	2103.0	2166.4	2237.3	2315.6	2372.6	2411.8	2446.5
57.5°	2020.0	2064.4	2110.0	2175.2	2245.9	2320.0	2409.9	2505.0	2567.0	2635.4	2697.0
60°	2126.6	2182.4	2234.9	2320.0	2404.2	2496.2	2608.3	2728.6	2824.6	2917.5	2988.4
62.5°	2267.9	2339.5	2404.8	2511.9	2621.8	2735.6	2868.8	3011.2	3150.4	3276.5	3372.0
65°	2476.7	2581.9	2679.5	2815.3	2954.1	3103.8	3262.8	3444.7	3611.8	3778.7	3915.4
67.5°	2635.2	2768.3	2893.7	3057.8	3221.2	3394.7	3587.0	3801.8	4008.6	4196.8	4363.4
69°	2604.1	2745.3	2881.0	3048.6	3218.5	3395.7	3589.6	3818.0	4032.9	4237.2	4416.0
70°	2509.4	2656.6	2797.2	2963.4	3135.6	3313.2	3516.2	3740.4	3960.4	4178.2	4358.8
72.5°	2079.7	2227.4	2364.0	2534.1	2707.3	2894.0	3086.1	3304.6	3539.6	3772.4	3930.6
75°	1491.1	1621.7	1754.0	1897.9	2066.9	2220.7	2396.5	2605.0	2802.6	2983.1	3104.1
77.5°	881.3	959.5	1053.8	1121.6	1219.6	1304.4	1393.8	1509.6	1570.4	1686.9	1716.8
80°	359.1	356.9	371.0	357.1	360.2	348.8	336.7	334.4	315.5	339.3	321.6
82.5°	228.1	212.2	195.2	171.8	151.0	129.3	109.4	92.7	89.6	90.2	89.2
85°	150.3	143.4	128.2	107.7	87.8	70.5	56.3	44.6	44.0	43.3	43.0
87.5°	27.2	25.2	20.8	17.7	14.9	11.1	7.9	5.8	5.6	5.6	6.6
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: P180326

CATALOG NUMBER: ICS-E02-LED-E1-RW-8030

CANDELA DISTRIBUTION (continued):

	84°	85°	86°	87°	88°	89°	90°
0°	889.3	889.3	889.3	889.3	889.3	889.3	889.3
2.5°	891.3	891.3	891.0	891.6	891.3	890.6	889.8
5°	903.0	902.0	902.7	903.4	902.2	902.4	901.9
7.5°	922.4	922.2	922.4	921.6	921.2	922.0	922.7
10°	949.8	949.3	949.0	949.8	949.3	948.8	949.0
12.5°	980.4	980.4	980.2	980.4	980.2	979.4	978.9
15°	1007.5	1008.0	1008.0	1007.6	1007.2	1007.0	1007.3
17.5°	1024.2	1024.0	1024.0	1024.0	1023.8	1024.0	1024.5
20°	1028.6	1027.8	1027.8	1028.3	1027.8	1028.2	1028.5
22.5°	1022.8	1022.8	1022.7	1023.0	1023.4	1023.5	1024.0
25°	1015.4	1015.4	1015.4	1015.9	1015.8	1016.2	1016.4
27.5°	1009.6	1009.6	1009.6	1010.0	1010.0	1010.4	1010.8
30°	1007.8	1007.8	1007.5	1007.8	1008.0	1008.0	1008.3
32.5°	1014.6	1013.8	1013.6	1013.1	1012.6	1012.6	1012.3
35°	1038.6	1036.6	1036.9	1035.4	1035.9	1034.6	1033.6
37.5°	1097.2	1095.1	1092.8	1089.8	1088.0	1090.3	1090.3
40°	1206.6	1207.8	1202.2	1200.8	1197.4	1199.7	1202.8
42.5°	1369.2	1370.6	1371.6	1363.3	1363.0	1361.3	1356.2
45°	1561.8	1558.2	1559.8	1555.9	1554.4	1548.9	1555.7
47.5°	1765.6	1767.9	1758.8	1755.8	1761.1	1752.0	1753.2
50°	1983.6	1984.2	1977.3	1975.8	1980.6	1963.4	1971.5
52.5°	2218.6	2219.6	2225.0	2218.6	2221.2	2217.2	2225.2
55°	2468.6	2487.6	2489.3	2496.1	2496.6	2505.0	2496.7
57.5°	2731.2	2752.6	2772.9	2800.5	2806.6	2803.3	2808.6
60°	3047.4	3103.9	3134.2	3177.6	3184.4	3203.1	3186.9
62.5°	3461.6	3549.5	3615.8	3649.2	3669.5	3708.8	3695.9
65°	4041.0	4145.6	4246.4	4294.5	4347.6	4403.4	4413.5
67.5°	4515.5	4631.8	4736.5	4819.8	4884.7	4925.7	4929.0
69°	4574.8	4698.4	4808.8	4901.4	4964.4	5006.5	5017.6
70°	4521.4	4647.7	4764.6	4853.0	4923.4	4966.2	4981.2
72.5°	4096.7	4247.2	4340.8	4431.0	4530.2	4543.1	4584.1
75°	3242.9	3377.8	3469.8	3493.6	3545.4	3610.8	3587.5
77.5°	1691.4	1750.2	1769.7	1728.2	1726.1	1764.4	1688.4
80°	322.1	322.6	317.2	315.2	319.0	315.2	309.9
82.5°	90.9	89.6	88.9	90.9	90.6	90.4	92.2
85°	42.0	40.8	38.8	38.8	39.8	38.2	39.0
87.5°	5.8	4.8	4.8	4.8	4.6	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)