

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: P181697

Luminaire Tested: **ICS-E03-LED-E1-T4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181697
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-E03-LED-E1-T4-8030
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6886.9 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

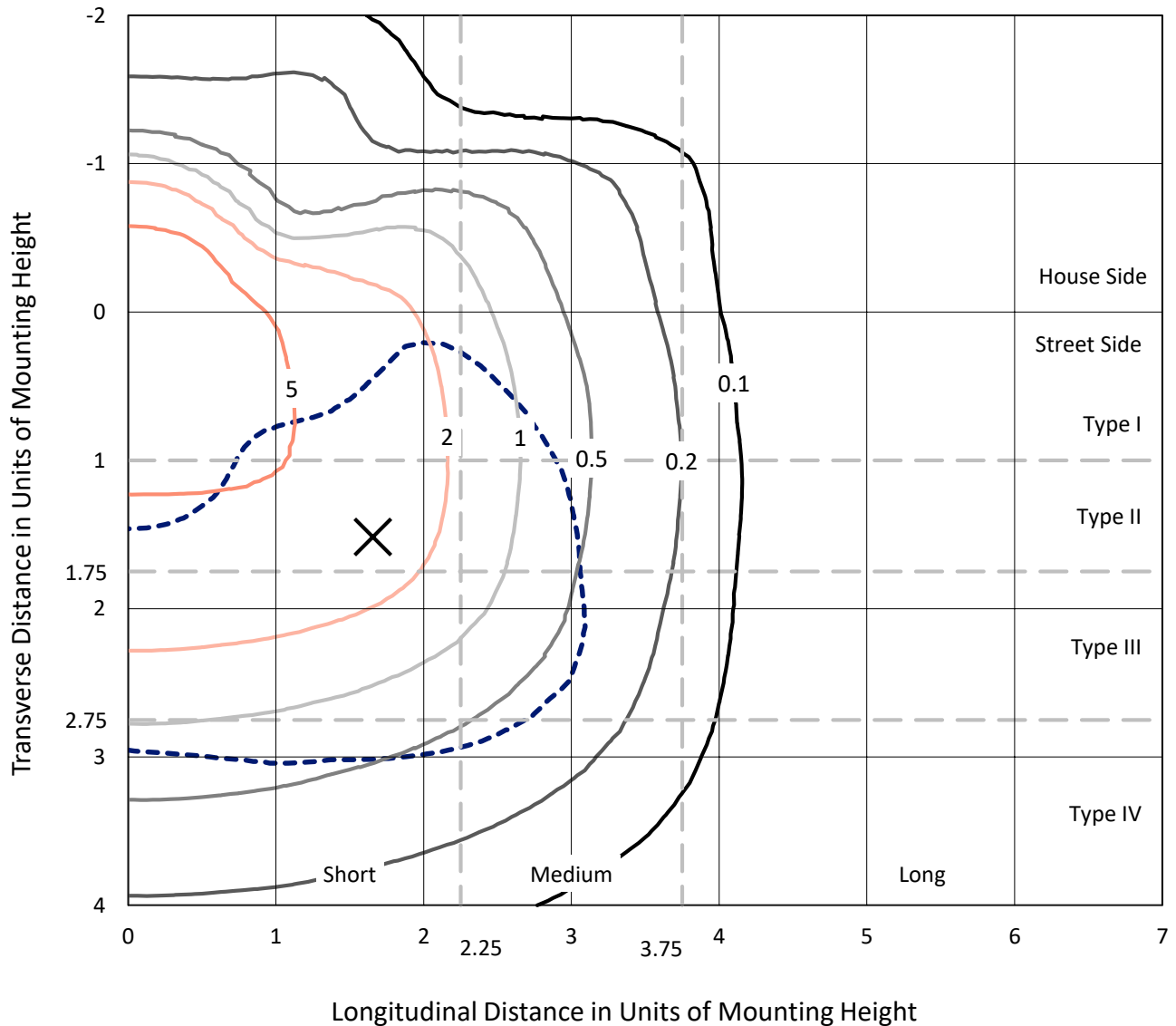
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P181697
 CATALOG NUMBER: ICS-E03-LED-E1-T4-8030

Iso-Footcandle Lines of Horizontal Illumination

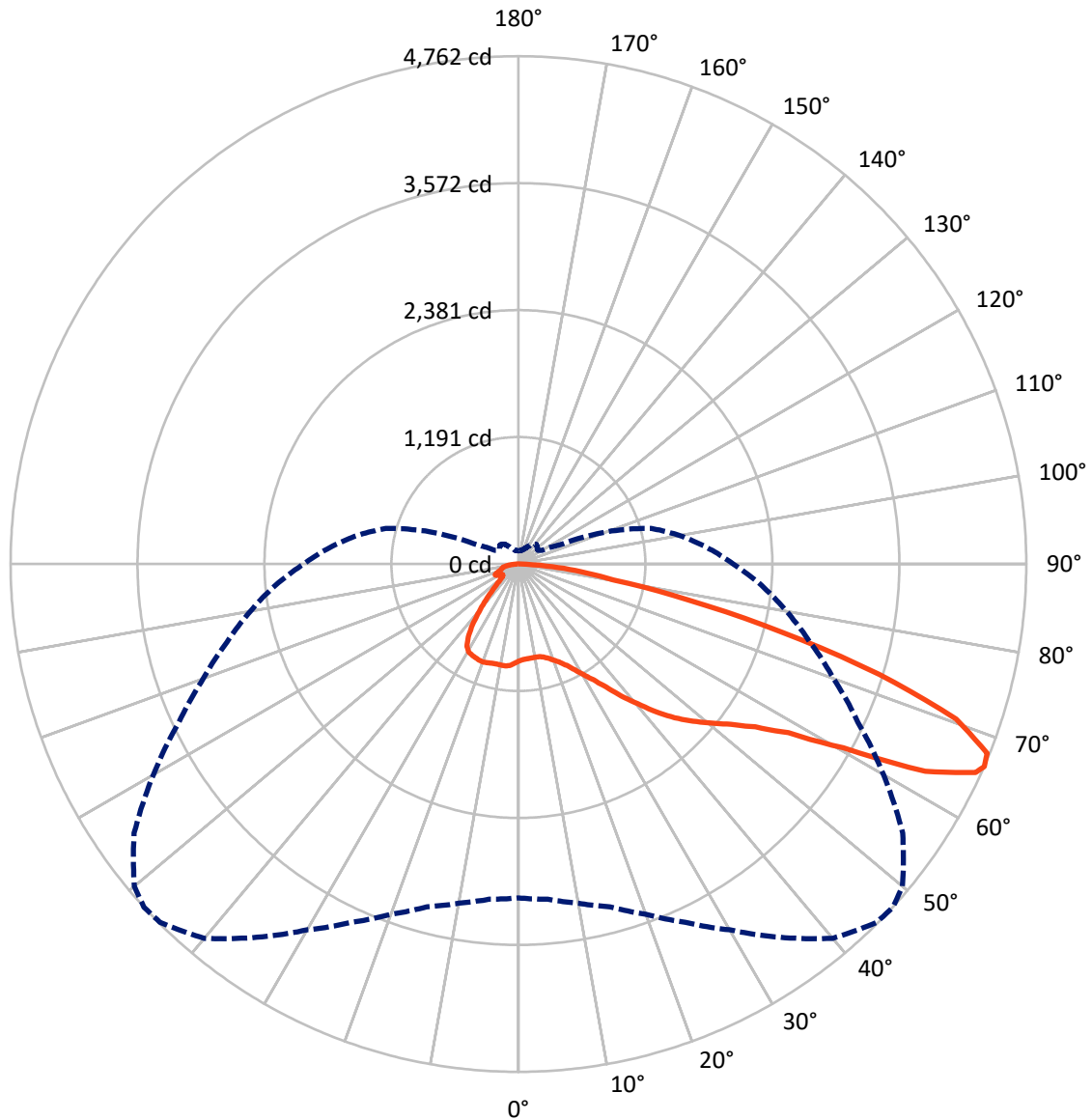
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P181697
CATALOG NUMBER: ICS-E03-LED-E1-T4-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P181697

CATALOG NUMBER: ICS-E03-LED-E1-T4-8030

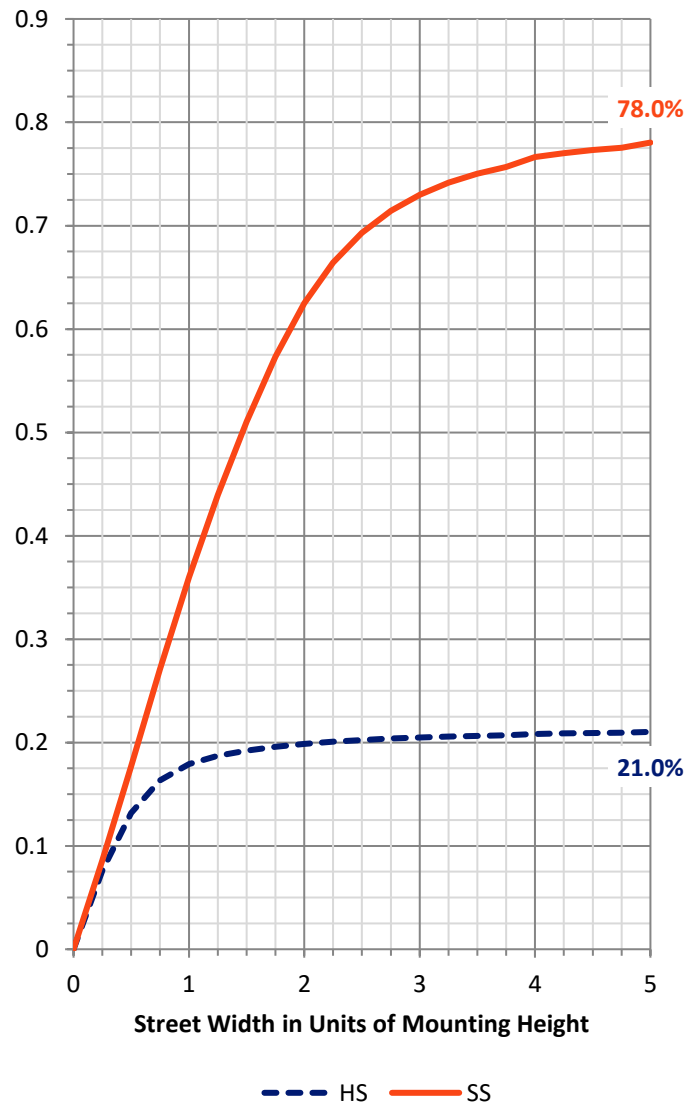
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1469.5	0.0	1469.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	5417.4	0.0	5417.4
	% Fixture	78.7	0.0	78.7
Total	Lumens	6886.9	0.0	6886.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	1.3
10°-20°	267.6	3.9
20°-30°	461.0	6.7
30°-40°	697.4	10.1
40°-50°	904.0	13.1
50°-60°	1246.3	18.1
60°-70°	1936.3	28.1
70°-80°	1126.0	16.3
80°-90°	160.1	2.3
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°	6886.9	100.0
0°-180°	6886.9	100.0



REPORT NUMBER: P181697

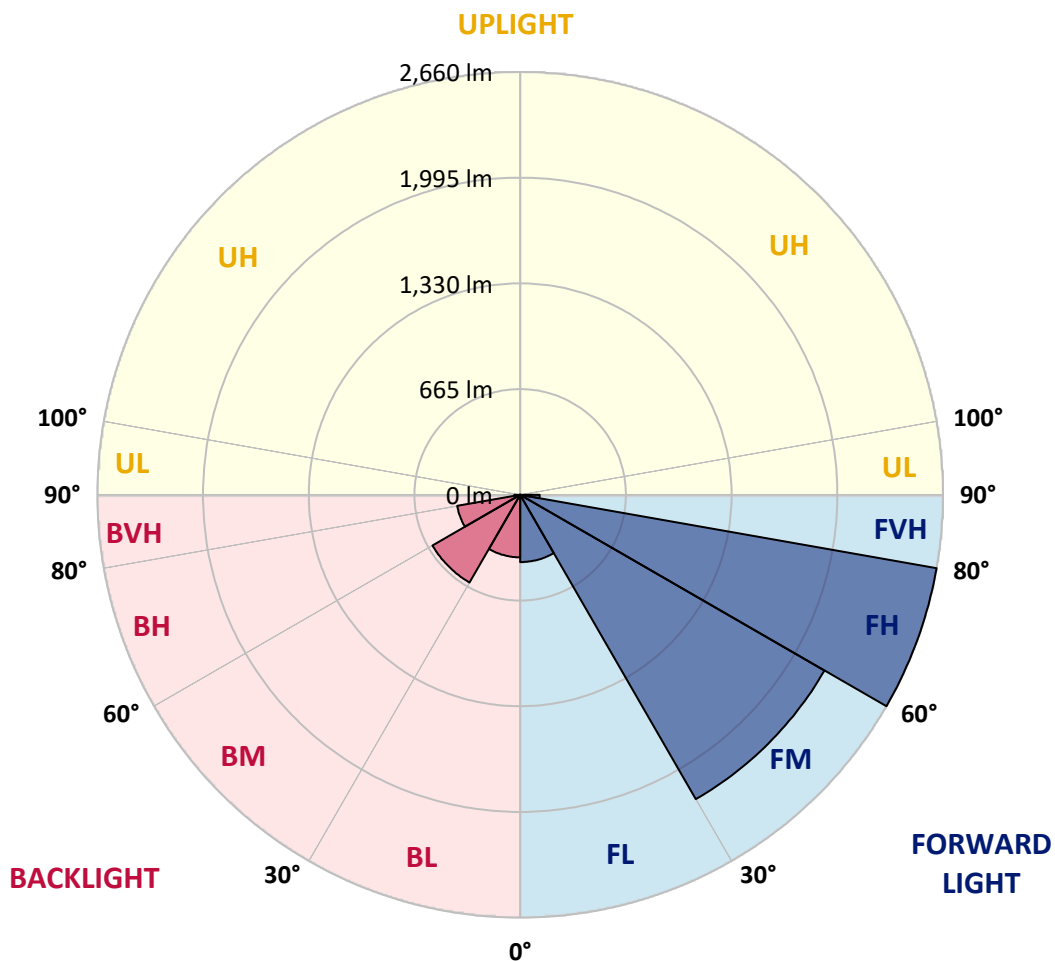
CATALOG NUMBER: ICS-E03-LED-E1-T4-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	423.4	6.1			
FM	(30°-60°)	2210.7	32.1			
FH	(60°-80°)	2660.4	38.6			G2/5000
FVH	(80°-90°)	122.9	1.8			G2/225
BL	(0°-30°)	393.3	5.7	B1/500		
BM	(30°-60°)	637.0	9.2	B1/1000		
BH	(60°-80°)	401.9	5.8	B1/500		G1/500
BVH	(80°-90°)	37.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P181697

CATALOG NUMBER: ICS-E03-LED-E1-T4-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	907.8	907.8	907.8	907.8	907.8	907.8	907.8	907.8	907.8	907.8	907.8
2.5°	891.0	894.1	891.8	892.6	892.6	893.3	893.3	894.1	893.3	895.6	897.1
5°	875.1	876.6	875.9	877.4	878.9	881.9	881.2	885.0	885.7	888.0	891.8
7.5°	869.0	867.5	868.3	870.5	872.1	873.6	875.1	878.1	880.4	885.7	888.8
10°	875.1	874.3	875.1	876.6	876.6	877.4	875.9	878.9	880.4	885.0	888.0
12.5°	900.2	900.2	898.6	898.6	897.1	895.6	891.8	889.5	888.8	889.5	891.0
15°	940.4	938.9	935.9	933.6	930.6	925.2	919.9	915.4	912.3	907.8	906.2
17.5°	979.9	977.6	974.6	971.6	967.8	962.5	954.1	948.8	940.4	935.1	932.1
20°	1025.5	1020.9	1017.1	1013.4	1005.8	1004.2	995.9	986.8	976.9	964.7	963.2
22.5°	1084.8	1077.2	1072.6	1070.3	1062.7	1060.4	1046.8	1033.9	1021.7	1005.8	1002.0
25°	1144.8	1137.2	1134.9	1131.9	1126.5	1123.5	1110.6	1096.2	1080.2	1058.2	1053.6
27.5°	1203.3	1204.0	1197.9	1200.2	1198.7	1193.4	1180.5	1166.0	1153.9	1128.1	1122.7
30°	1276.2	1271.6	1268.6	1273.1	1267.8	1268.6	1257.2	1249.6	1229.8	1214.7	1204.0
32.5°	1352.1	1351.4	1355.9	1359.0	1358.2	1356.7	1347.6	1340.0	1322.5	1300.5	1295.9
35°	1456.2	1460.8	1464.6	1478.2	1478.2	1488.1	1479.0	1469.9	1449.4	1422.8	1413.7
37.5°	1526.9	1528.4	1543.6	1561.8	1584.6	1605.9	1611.9	1614.2	1605.9	1586.1	1572.4
40°	1591.4	1594.5	1618.8	1646.9	1680.3	1722.1	1747.2	1758.6	1760.8	1751.7	1722.1
42.5°	1656.0	1660.6	1685.6	1726.6	1773.0	1826.2	1870.2	1898.3	1914.3	1914.3	1896.8
45°	1731.2	1737.3	1764.6	1809.4	1863.4	1930.2	1991.0	2044.9	2070.8	2072.3	2055.6
47.5°	1820.1	1825.4	1857.3	1902.9	1958.3	2025.9	2102.7	2164.2	2212.1	2215.1	2201.4
50°	1934.8	1942.4	1969.0	2010.0	2067.0	2135.3	2212.1	2297.9	2348.0	2360.2	2345.7
52.5°	2086.7	2088.2	2110.3	2148.2	2203.7	2269.0	2350.3	2443.7	2509.8	2519.7	2496.2
55°	2296.4	2294.1	2308.5	2349.5	2391.3	2442.2	2526.5	2631.4	2705.1	2720.2	2695.9
57.5°	2581.2	2579.0	2591.1	2601.0	2679.2	2728.6	2811.4	2911.7	2983.1	3027.1	2985.4
60°	3022.6	3020.3	3040.1	3097.8	3156.3	3228.4	3309.0	3429.0	3529.3	3542.2	3501.1
62.5°	3342.4	3353.8	3397.1	3464.7	3583.2	3724.5	3871.9	4029.9	4235.7	4301.0	4281.3
65°	3230.7	3253.5	3313.5	3416.1	3574.1	3769.3	4000.2	4286.6	4562.4	4716.6	4712.0
66°	3130.4	3155.5	3229.2	3328.0	3495.1	3708.5	3960.7	4272.9	4581.3	4751.5	4762.1
67.5°	2948.1	2976.2	3048.4	3165.4	3328.0	3555.1	3826.3	4165.8	4514.5	4712.8	4740.9
70°	2593.4	2625.3	2677.7	2774.2	2934.5	3137.3	3422.9	3726.8	4092.1	4319.3	4353.5
72.5°	2168.0	2196.1	2254.6	2333.6	2465.0	2592.6	2816.7	3040.8	3302.1	3561.2	3536.1
75°	1556.5	1568.6	1603.6	1689.4	1760.1	1874.8	2054.8	2238.6	2417.2	2535.7	2552.4
77.5°	809.0	840.9	890.3	985.2	1062.0	1165.3	1282.3	1420.5	1551.2	1659.8	1630.2
80°	529.5	543.1	587.2	635.8	692.0	758.1	836.4	888.0	904.7	897.9	904.7
82.5°	305.4	330.4	388.9	426.2	467.9	490.7	553.0	612.3	645.7	603.9	588.7
85°	38.7	50.1	158.0	199.0	227.9	262.1	281.1	316.8	295.5	264.4	322.1
87.5°	8.4	7.6	10.6	22.8	23.5	19.8	37.2	39.5	24.3	12.2	15.2
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: P181697

CATALOG NUMBER: ICS-E03-LED-E1-T4-8030

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	907.8	907.8	907.8	907.8	907.8	907.8	907.8	907.8	907.8	907.8	907.8
2.5°	898.6	899.4	900.9	903.2	904.7	906.2	907.8	910.0	911.6	913.1	916.1
5°	894.8	897.9	900.9	904.0	907.8	913.8	917.6	920.7	923.7	929.8	932.1
7.5°	892.6	897.9	902.4	907.8	913.8	919.2	926.0	929.8	934.3	938.1	942.7
10°	891.0	898.6	903.2	910.8	917.6	923.0	930.6	935.1	940.4	945.0	947.3
12.5°	894.1	897.9	902.4	910.0	918.4	926.0	934.3	938.1	942.7	946.5	947.3
15°	907.0	907.0	907.8	913.8	922.2	928.3	935.1	938.9	941.2	943.5	943.5
17.5°	930.6	925.2	921.4	922.2	927.5	931.3	935.1	935.1	933.6	932.8	931.3
20°	957.9	951.1	943.5	938.1	936.6	933.6	931.3	923.7	917.6	912.3	908.5
22.5°	997.4	986.8	976.1	966.3	957.1	945.7	932.8	917.6	903.2	893.3	887.3
25°	1046.0	1037.7	1024.7	1009.6	998.2	976.9	960.2	938.1	919.9	907.0	896.4
27.5°	1115.1	1105.3	1093.1	1079.4	1062.7	1039.2	1018.7	992.8	970.8	951.8	938.1
30°	1201.0	1188.1	1179.0	1162.2	1150.8	1124.3	1103.7	1071.8	1029.3	998.9	979.9
32.5°	1289.1	1274.7	1267.1	1254.2	1241.2	1225.3	1194.1	1144.8	1090.1	1040.7	1008.0
35°	1406.8	1391.6	1378.0	1366.6	1347.6	1318.0	1290.6	1231.4	1156.2	1087.0	1032.3
37.5°	1555.0	1529.9	1495.7	1466.9	1433.4	1390.9	1349.1	1288.3	1202.5	1112.9	1039.9
40°	1713.0	1668.9	1620.3	1566.4	1508.6	1447.1	1399.2	1337.7	1241.2	1134.9	1034.6
42.5°	1877.8	1807.9	1740.3	1664.4	1583.8	1510.9	1448.6	1381.0	1270.1	1141.0	1013.4
45°	2041.1	1962.9	1860.3	1760.8	1659.0	1568.6	1498.8	1422.8	1296.7	1143.2	985.2
47.5°	2176.3	2095.8	1978.8	1854.3	1733.5	1630.9	1548.9	1466.9	1332.4	1159.2	978.4
50°	2319.2	2221.2	2091.3	1943.9	1807.2	1692.5	1605.1	1520.0	1382.5	1200.2	1000.4
52.5°	2474.9	2362.5	2210.5	2045.7	1896.0	1767.7	1672.7	1585.4	1446.3	1258.0	1042.2
55°	2664.8	2527.3	2362.5	2176.3	2016.1	1874.0	1769.2	1665.9	1522.3	1326.3	1094.6
57.5°	2955.0	2786.3	2601.0	2389.0	2211.3	2043.4	1918.1	1798.8	1640.0	1428.1	1166.0
60°	3479.9	3299.8	3059.0	2802.3	2593.4	2397.4	2213.6	2065.4	1870.2	1628.7	1324.0
62.5°	4231.9	3992.6	3671.3	3312.0	3038.5	2755.9	2548.6	2328.3	2086.0	1825.4	1510.2
65°	4649.7	4359.5	3929.6	3512.5	3160.8	2853.9	2590.3	2335.1	2066.2	1817.0	1553.4
66°	4701.4	4399.0	3952.4	3513.3	3144.1	2828.9	2551.6	2287.3	2012.3	1774.5	1535.2
67.5°	4680.1	4370.9	3910.6	3447.2	3072.0	2733.2	2446.8	2172.6	1898.3	1676.5	1474.4
70°	4331.4	4038.2	3586.2	3137.3	2781.0	2446.8	2173.3	1903.6	1652.2	1462.3	1313.4
72.5°	3596.9	3346.2	2953.5	2601.0	2321.4	2045.7	1814.0	1556.5	1343.8	1203.3	1115.1
75°	2596.4	2444.5	2086.7	1884.6	1639.3	1456.2	1231.4	1078.7	926.0	857.6	842.4
77.5°	1640.0	1435.7	1208.6	995.1	818.1	678.4	527.9	448.2	373.7	366.1	442.1
80°	830.3	747.5	575.8	458.8	385.9	312.2	246.9	186.9	130.7	157.2	188.4
82.5°	543.9	453.5	355.5	292.5	254.5	211.2	164.1	113.9	83.6	94.2	129.1
85°	294.0	250.7	202.1	159.5	129.1	115.5	77.5	54.7	53.9	57.7	73.7
87.5°	21.3	21.3	16.7	15.2	18.2	15.2	13.7	13.7	12.9	13.7	18.2
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: P181697

CATALOG NUMBER: ICS-E03-LED-E1-T4-8030

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	907.8	907.8	907.8	907.8	907.8	907.8	907.8	907.8	907.8	907.8	907.8
2.5°	917.6	919.9	920.7	924.5	926.8	928.3	929.8	929.8	930.6	932.8	933.6
5°	935.1	938.9	943.5	946.5	948.0	952.6	954.1	954.1	955.6	958.7	960.9
7.5°	945.7	951.1	955.6	957.1	960.2	961.7	964.0	965.5	965.5	968.5	970.1
10°	949.5	952.6	957.1	957.1	960.2	960.2	962.5	963.2	963.2	966.3	968.5
12.5°	949.5	951.1	954.9	954.9	957.1	957.9	960.9	963.2	964.0	967.8	970.8
15°	945.0	946.5	949.5	950.3	955.6	958.7	965.5	970.1	970.1	973.8	975.4
17.5°	932.1	935.9	941.9	948.0	957.9	964.7	973.1	976.9	973.8	971.6	969.3
20°	910.8	917.6	932.1	947.3	964.7	973.8	978.4	974.6	964.0	953.3	946.5
22.5°	889.5	903.2	927.5	950.3	970.1	976.1	973.8	960.2	942.7	929.8	920.7
25°	899.4	915.4	938.9	959.4	972.3	970.8	961.7	942.7	923.7	907.0	891.8
27.5°	940.4	957.9	970.8	977.6	976.1	965.5	951.1	929.8	907.0	885.0	863.7
30°	979.2	988.3	991.3	986.0	973.8	956.4	938.1	913.8	883.5	856.1	831.8
32.5°	996.6	987.5	973.1	958.7	938.9	923.7	898.6	872.1	834.1	801.4	777.1
35°	996.6	960.2	923.7	893.3	863.7	844.7	815.8	780.1	745.2	717.9	698.9
37.5°	974.6	904.7	844.7	795.3	758.1	737.6	694.3	662.4	632.8	623.7	611.5
40°	934.3	831.0	744.4	679.9	632.8	602.4	559.1	537.1	525.7	521.1	518.8
42.5°	880.4	749.0	633.5	553.8	502.9	468.7	439.8	426.2	425.4	424.6	424.6
45°	822.7	660.9	525.7	430.7	385.9	355.5	341.8	336.5	341.1	340.3	341.1
47.5°	787.0	594.0	426.9	325.9	291.7	271.9	265.1	267.4	271.2	269.7	269.7
50°	782.4	559.8	360.8	253.7	227.9	218.0	216.5	216.5	218.8	217.3	216.5
52.5°	799.1	554.5	326.6	218.0	197.5	189.1	187.6	186.9	186.1	181.6	177.8
55°	828.0	566.7	316.8	208.9	187.6	178.5	176.2	174.7	171.7	165.6	158.8
57.5°	885.7	604.7	325.9	213.5	190.7	183.1	180.8	180.8	174.7	164.8	155.0
60°	1024.7	701.1	363.1	230.9	205.1	197.5	199.0	198.3	189.1	174.7	159.5
62.5°	1204.0	827.2	411.7	255.2	223.3	221.8	229.4	227.9	212.7	190.7	168.6
65°	1286.8	886.5	425.4	260.6	227.1	234.0	249.2	247.6	228.6	198.3	170.2
66°	1288.3	886.5	419.3	256.0	221.8	230.2	245.4	244.6	225.6	195.2	167.1
67.5°	1257.2	862.2	401.8	246.9	211.2	217.3	230.9	230.2	212.7	187.6	161.0
70°	1140.2	771.8	357.0	230.9	196.7	193.7	198.3	195.2	183.8	166.4	148.1
72.5°	976.9	648.0	311.4	218.8	186.9	174.7	171.7	169.4	160.3	150.4	139.0
75°	769.5	512.8	273.5	209.7	177.8	161.8	156.5	153.4	147.4	140.5	131.4
77.5°	474.8	366.9	238.5	197.5	170.9	155.0	151.2	146.6	137.5	129.1	122.3
80°	211.9	227.1	196.0	172.4	152.7	138.3	132.2	125.3	116.2	110.9	107.1
82.5°	141.3	146.6	142.1	129.1	115.5	104.1	95.0	95.0	93.4	88.9	87.4
85°	90.4	91.2	88.1	79.8	74.4	67.6	63.8	64.6	67.6	66.8	66.1
87.5°	20.5	20.5	24.3	22.8	26.6	28.1	30.4	32.7	37.2	37.2	39.5
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: P181697

CATALOG NUMBER: ICS-E03-LED-E1-T4-8030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	907.8	907.8	907.8	907.8	907.8
2.5°	934.3	935.9	937.4	935.1	935.9
5°	960.9	960.2	964.0	961.7	963.2
7.5°	969.3	970.1	973.1	973.1	973.8
10°	970.1	971.6	975.4	977.6	979.2
12.5°	973.8	976.9	983.0	984.5	984.5
15°	976.9	978.4	982.2	983.7	985.2
17.5°	966.3	963.2	964.7	965.5	964.7
20°	939.7	936.6	935.9	932.8	934.3
22.5°	910.8	902.4	897.1	891.0	891.0
25°	875.9	862.9	852.3	841.7	844.0
27.5°	843.2	826.5	815.8	809.0	807.5
30°	811.3	793.8	783.9	775.6	775.6
32.5°	758.1	746.0	733.0	727.7	727.0
35°	684.4	676.8	666.2	663.9	660.1
37.5°	601.6	599.4	590.2	589.5	585.7
40°	515.0	516.6	513.5	512.0	509.7
42.5°	428.4	436.0	434.5	433.8	432.2
45°	345.6	351.0	351.7	354.0	357.8
47.5°	271.9	273.5	275.0	274.2	275.0
50°	212.7	208.9	208.1	205.9	208.1
52.5°	171.7	165.6	162.6	159.5	158.0
55°	151.2	145.1	142.1	140.5	139.0
57.5°	145.8	139.8	135.2	132.2	131.4
60°	147.4	138.3	132.2	128.4	127.6
62.5°	151.2	139.0	130.7	126.9	126.1
65°	150.4	137.5	129.9	125.3	124.6
66°	148.1	136.0	128.4	124.6	123.8
67.5°	144.3	133.7	126.9	123.8	122.3
70°	137.5	130.7	125.3	121.5	120.0
72.5°	131.4	126.1	121.5	117.7	117.0
75°	124.6	120.0	115.5	112.4	111.7
77.5°	116.2	111.7	108.6	106.3	105.6
80°	102.6	99.5	96.5	93.4	93.4
82.5°	85.1	82.8	79.8	77.5	76.7
85°	65.3	65.3	63.0	60.8	60.0
87.5°	38.7	38.0	38.0	35.7	35.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)