

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: P180936

Luminaire Tested: **ICS-E03-LED-E1-SL4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180936
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)
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-SL4-8030
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6732.1 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

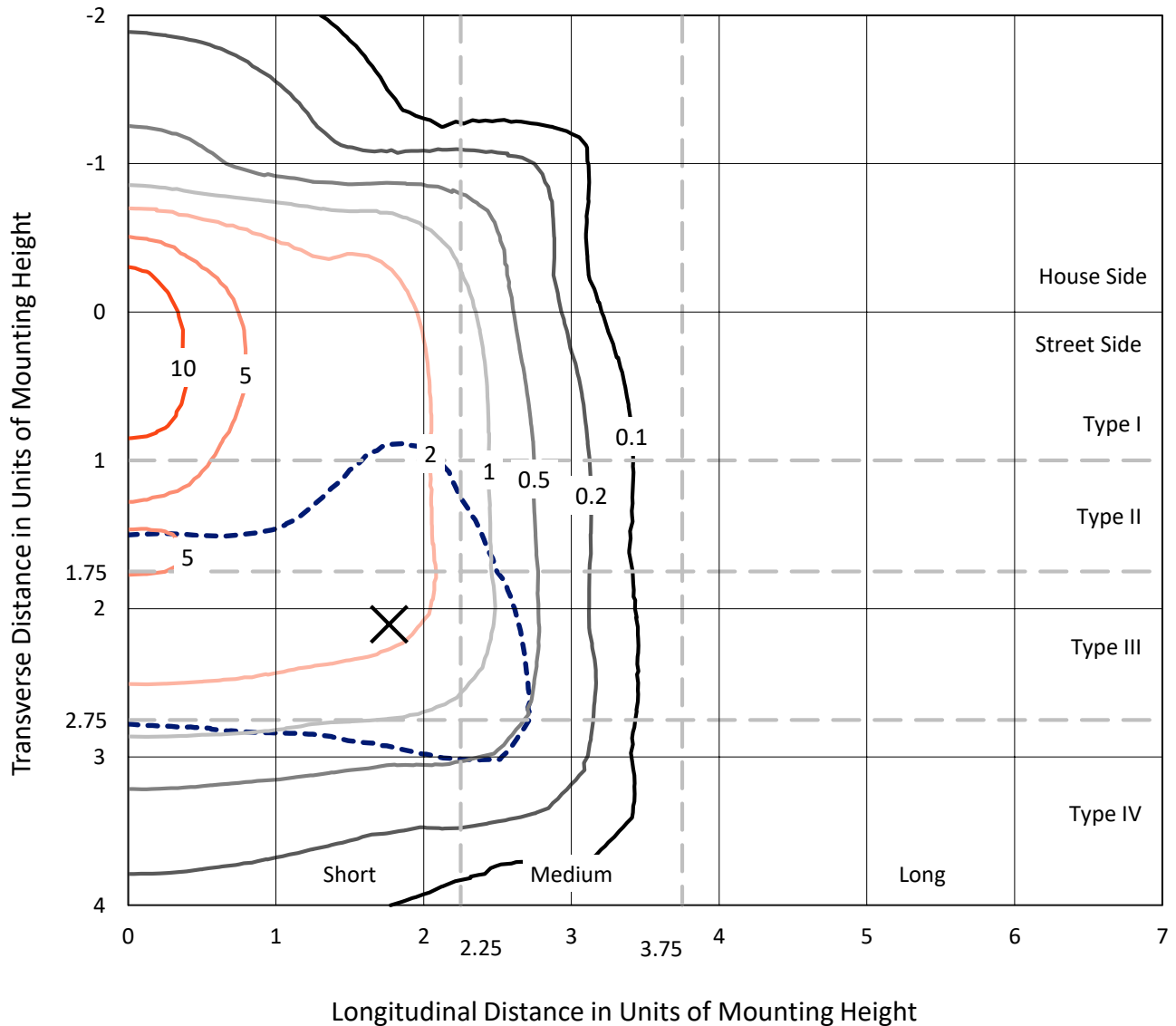
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P180936
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

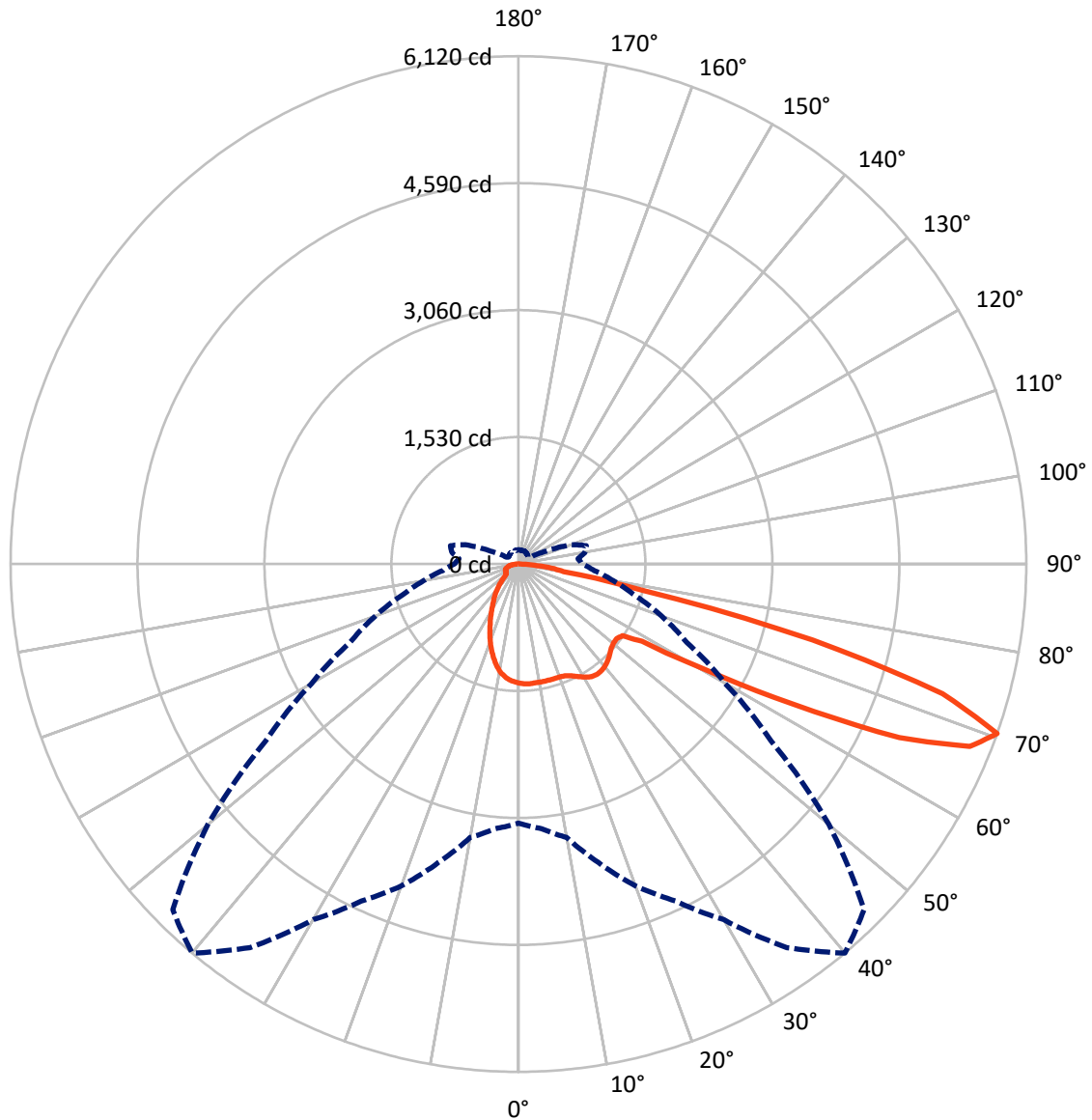


Based on 10 foot mounting height. Maximum calculated value = 14.4 fc
 Type IV - Short - Full Cutoff

REPORT NUMBER: P180936

CATALOG NUMBER: ICS-E03-LED-E1-SL4-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P180936

CATALOG NUMBER: ICS-E03-LED-E1-SL4-8030

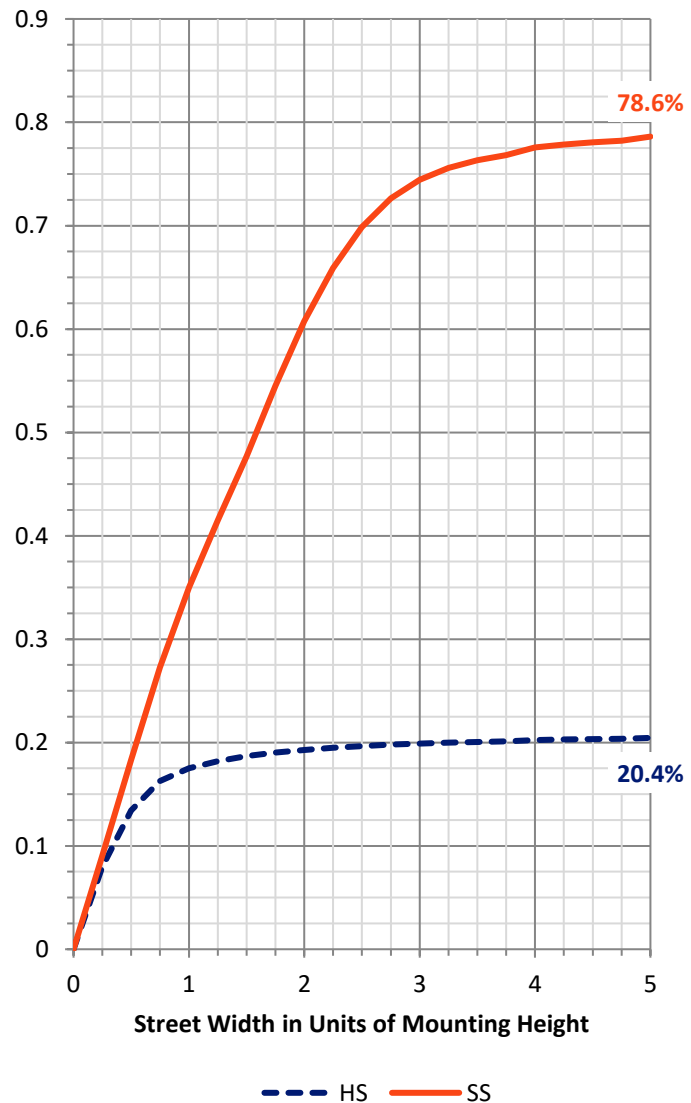
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1397.5	0.0	1397.5
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	5334.6	0.0	5334.6
	% Fixture	79.2	0.0	79.2
Total	Lumens	6732.1	0.0	6732.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.2	2.0
10°-20°	367.4	5.5
20°-30°	543.8	8.1
30°-40°	687.3	10.2
40°-50°	777.3	11.5
50°-60°	1106.1	16.4
60°-70°	2060.0	30.6
70°-80°	944.1	14.0
80°-90°	112.1	1.7
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°	6732.1	100.0
0°-180°	6732.1	100.0



REPORT NUMBER: P180936

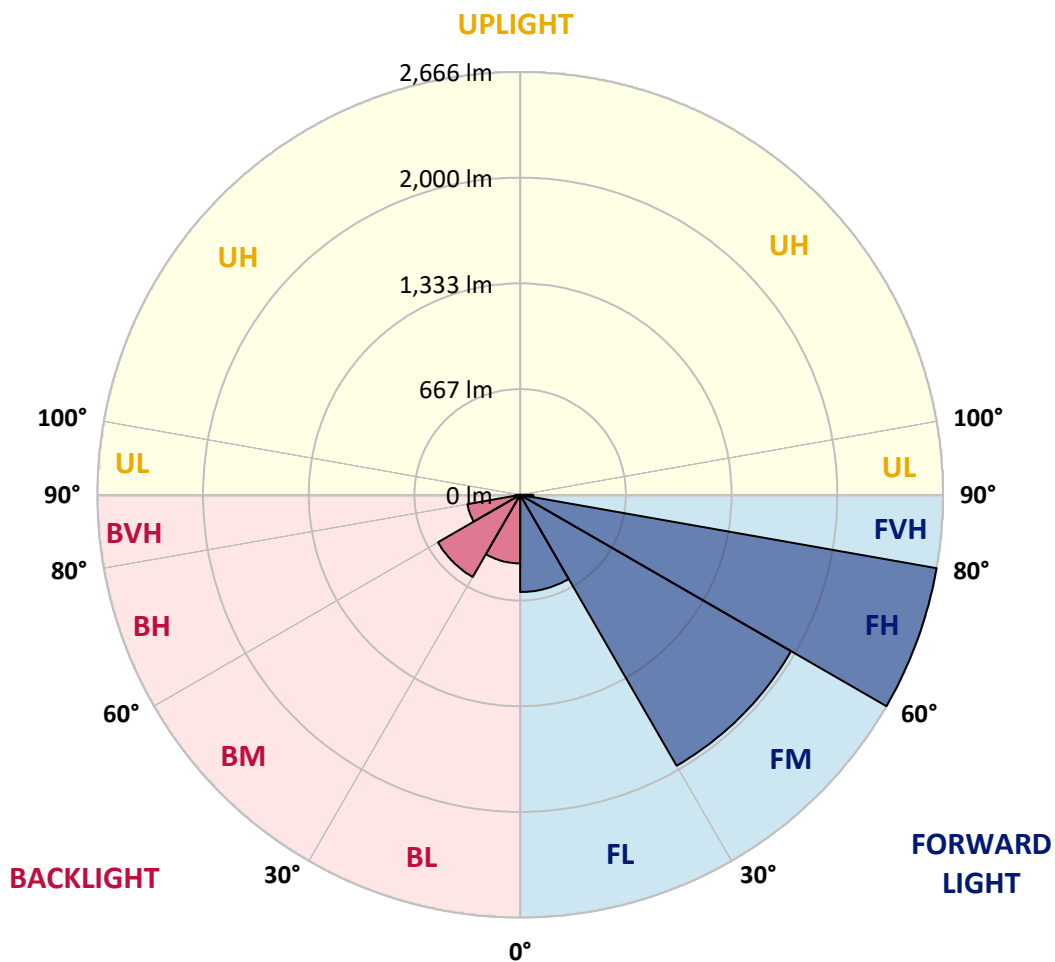
CATALOG NUMBER: ICS-E03-LED-E1-SL4-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	613.0	9.1			
FM	(30°-60°)	1972.3	29.3			
FH	(60°-80°)	2666.2	39.6			G2/5000
FVH	(80°-90°)	83.1	1.2			G1/100
BL	(0°-30°)	432.4	6.4	B1/500		
BM	(30°-60°)	598.3	8.9	B1/1000		
BH	(60°-80°)	337.9	5.0	B1/500		G1/500
BVH	(80°-90°)	28.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P180936

CATALOG NUMBER: ICS-E03-LED-E1-SL4-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5
2.5°	1458.5	1462.3	1457.7	1457.0	1457.0	1456.2	1451.7	1450.9	1444.8	1445.6	1447.1
5°	1469.1	1470.6	1467.6	1466.9	1465.3	1462.3	1458.5	1453.9	1449.4	1444.8	1441.0
7.5°	1479.8	1478.2	1476.0	1476.0	1473.7	1469.1	1461.5	1455.5	1445.6	1440.3	1433.4
10°	1495.0	1492.7	1489.6	1488.1	1484.3	1477.5	1466.9	1458.5	1446.3	1435.7	1424.3
12.5°	1509.4	1508.6	1504.1	1501.8	1495.7	1488.9	1476.0	1463.1	1447.1	1430.4	1415.2
15°	1535.2	1532.2	1527.6	1523.1	1513.2	1504.1	1484.3	1469.1	1446.3	1424.3	1400.8
17.5°	1580.0	1574.7	1570.2	1560.3	1548.1	1532.2	1503.3	1477.5	1446.3	1414.4	1387.8
20°	1662.1	1650.7	1644.6	1631.7	1610.4	1581.6	1536.7	1495.0	1448.6	1407.6	1371.9
22.5°	1754.8	1747.2	1738.8	1730.4	1697.0	1655.2	1594.5	1532.2	1462.3	1404.6	1359.0
25°	1858.8	1848.9	1844.4	1830.0	1798.8	1751.0	1668.2	1581.6	1493.4	1416.7	1359.0
27.5°	1951.5	1948.5	1947.7	1931.0	1901.4	1845.1	1747.2	1643.1	1536.0	1441.8	1370.4
30°	2035.8	2032.8	2031.3	2022.1	1988.0	1921.1	1814.8	1697.8	1582.3	1476.7	1391.6
32.5°	2125.5	2115.6	2111.0	2093.5	2054.8	1976.6	1855.0	1733.5	1618.8	1510.9	1415.2
35°	2198.4	2190.0	2180.9	2155.8	2101.1	2008.5	1872.5	1745.6	1633.2	1529.9	1427.4
37.5°	2251.6	2243.2	2230.3	2198.4	2130.8	2019.1	1871.7	1741.8	1627.9	1526.9	1429.6
40°	2275.1	2266.7	2253.1	2212.8	2136.1	2013.0	1857.3	1724.4	1611.9	1510.9	1420.5
42.5°	2266.0	2259.9	2242.4	2203.7	2119.4	1985.7	1828.4	1691.7	1581.6	1485.1	1400.0
45°	2231.0	2226.5	2209.8	2168.8	2081.4	1941.6	1785.9	1650.7	1545.1	1453.2	1372.7
47.5°	2178.6	2177.1	2160.4	2120.1	2033.5	1897.6	1741.8	1610.4	1508.6	1422.0	1349.9
50°	2120.9	2113.3	2104.9	2067.7	1988.7	1859.6	1709.9	1585.4	1488.1	1410.6	1340.0
52.5°	2084.4	2082.2	2074.6	2041.1	1965.2	1837.6	1695.5	1576.2	1486.6	1408.4	1334.7
55°	2408.0	2413.4	2343.5	2198.4	2070.8	1898.3	1738.8	1622.6	1523.8	1444.8	1390.9
57.5°	3561.9	3538.4	3418.3	3130.4	2805.3	2376.1	2067.0	1879.3	1757.0	1770.7	1798.1
60°	4149.9	4145.3	4123.3	4011.6	3795.1	3468.5	3106.1	2690.6	2558.4	2572.9	2583.5
62.5°	4412.7	4419.5	4436.3	4394.5	4337.5	4242.6	4061.8	3894.6	3717.6	3651.6	3474.6
65°	4534.3	4546.4	4584.4	4607.9	4630.0	4646.7	4718.1	4914.1	5043.2	4801.6	4239.5
67.5°	4282.8	4341.3	4466.6	4588.9	4698.3	4854.1	5095.6	5550.6	5867.4	5570.4	4755.3
70°	3122.1	3201.9	3345.4	3723.7	4127.8	4481.1	4949.0	5641.8	6119.6	5890.2	4882.9
72.5°	1957.6	1979.6	2043.4	2182.4	2482.5	2936.0	3754.1	4793.3	5344.8	5161.7	4127.1
75°	1242.0	1249.6	1247.3	1279.2	1330.1	1428.9	1752.5	2831.2	3661.4	3375.8	2300.2
77.5°	739.9	751.3	755.8	765.7	790.0	825.0	851.5	963.2	1535.2	1490.4	834.8
80°	619.9	629.0	621.4	619.1	603.9	593.3	606.2	593.3	550.7	530.2	488.4
82.5°	328.2	327.4	325.1	347.2	392.0	426.9	453.5	447.4	404.9	344.9	292.5
85°	180.0	186.1	186.1	193.7	186.9	187.6	193.7	204.3	189.1	158.0	129.1
87.5°	15.2	23.5	19.0	23.5	31.9	22.8	22.0	22.0	19.0	13.7	12.2
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: P180936

CATALOG NUMBER: ICS-E03-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5
2.5°	1443.3	1441.8	1438.7	1436.5	1436.5	1432.7	1430.4	1428.9	1428.1	1425.1	1425.1
5°	1438.7	1433.4	1428.1	1424.3	1422.0	1418.2	1412.2	1409.1	1405.3	1402.3	1400.8
7.5°	1428.9	1419.0	1410.6	1404.6	1397.0	1390.9	1383.3	1376.5	1369.6	1366.6	1365.1
10°	1413.7	1400.8	1387.8	1376.5	1365.8	1355.2	1345.3	1335.4	1327.1	1321.0	1314.9
12.5°	1399.2	1379.5	1362.8	1346.1	1329.4	1316.4	1302.8	1288.3	1276.2	1264.8	1261.8
15°	1379.5	1356.7	1335.4	1314.9	1294.4	1273.1	1256.4	1240.5	1220.7	1207.8	1197.9
17.5°	1361.3	1333.9	1308.1	1283.8	1258.7	1236.7	1211.6	1190.3	1170.6	1150.8	1136.4
20°	1341.5	1311.9	1284.5	1257.2	1229.8	1201.7	1172.9	1145.5	1121.2	1097.7	1074.1
22.5°	1324.0	1293.7	1267.1	1237.4	1207.1	1175.2	1141.7	1107.5	1079.4	1049.1	1021.7
25°	1313.4	1280.0	1252.6	1223.8	1190.3	1155.4	1117.4	1077.2	1043.0	1008.0	975.4
27.5°	1313.4	1270.1	1242.0	1213.1	1179.0	1141.7	1099.9	1055.9	1017.1	978.4	938.1
30°	1324.8	1271.6	1233.6	1203.3	1168.3	1128.1	1081.7	1035.4	992.8	947.3	908.5
32.5°	1335.4	1274.7	1227.6	1188.8	1148.6	1109.1	1062.0	1012.6	965.5	922.2	881.2
35°	1342.3	1274.7	1216.2	1166.8	1121.2	1082.5	1036.1	986.8	938.9	896.4	858.4
37.5°	1343.0	1268.6	1197.9	1141.7	1093.9	1053.6	1009.6	963.2	917.6	878.1	846.2
40°	1335.4	1256.4	1179.7	1115.1	1065.0	1024.0	983.7	941.9	900.9	868.3	840.9
42.5°	1321.8	1243.5	1162.2	1093.9	1041.5	998.9	961.7	926.0	890.3	862.2	839.4
45°	1301.3	1226.0	1146.3	1081.0	1029.3	984.5	948.0	918.4	888.0	864.5	841.7
47.5°	1283.0	1220.0	1151.6	1089.3	1035.4	989.0	951.8	926.8	903.2	887.3	856.1
50°	1279.2	1216.9	1153.9	1096.2	1041.5	994.4	961.7	948.8	941.9	932.1	884.2
52.5°	1268.6	1216.2	1170.6	1138.7	1103.7	1081.7	1047.5	1059.7	1052.1	1017.1	930.6
55°	1380.3	1395.4	1438.0	1498.8	1555.0	1567.9	1564.1	1549.7	1472.9	1267.1	1042.2
57.5°	1897.6	1983.4	2063.9	2099.6	2095.1	2054.8	2025.9	1967.4	1856.5	1605.9	1262.5
60°	2616.2	2629.8	2587.3	2524.3	2417.9	2329.0	2234.1	2124.7	1963.7	1718.3	1397.7
62.5°	3277.8	3094.0	2904.8	2727.1	2565.3	2424.0	2291.8	2139.1	1929.5	1673.5	1380.3
65°	3745.0	3356.1	3057.5	2802.3	2573.6	2376.1	2211.3	2013.0	1776.8	1545.9	1279.2
67.5°	3985.8	3389.5	2931.4	2575.9	2251.6	1978.1	1758.6	1565.6	1390.1	1289.1	1119.7
70°	3716.9	2876.7	2238.6	1836.8	1448.6	1161.5	917.6	770.3	719.4	815.1	847.8
72.5°	2769.6	1872.5	1331.6	1030.1	789.3	629.0	482.4	379.1	308.4	323.6	420.1
75°	1309.6	808.2	571.2	434.5	345.6	286.4	234.0	214.2	179.3	148.9	139.8
77.5°	509.7	371.5	306.9	224.9	159.5	128.4	109.4	105.6	107.9	104.8	103.3
80°	388.2	262.8	164.8	120.8	104.1	91.9	81.3	78.2	79.8	83.6	87.4
82.5°	216.5	135.2	100.3	87.4	78.2	66.8	60.8	56.2	57.0	61.5	69.9
85°	83.6	65.3	60.0	57.7	53.9	43.3	37.2	38.0	43.3	51.7	51.7
87.5°	9.1	9.1	12.2	9.1	9.1	9.1	8.4	9.9	10.6	13.7	16.0
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: P180936

CATALOG NUMBER: ICS-E03-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5
2.5°	1423.6	1423.6	1423.6	1422.0	1422.8	1419.8	1419.8	1417.5	1421.3	1419.0	1418.2
5°	1401.5	1400.8	1397.7	1397.7	1397.7	1397.7	1400.0	1393.9	1398.5	1398.5	1396.2
7.5°	1364.3	1364.3	1355.9	1360.5	1359.0	1361.3	1364.3	1361.3	1365.8	1368.9	1366.6
10°	1312.6	1312.6	1305.8	1311.1	1308.8	1314.2	1319.5	1316.4	1319.5	1324.0	1325.6
12.5°	1255.7	1252.6	1246.6	1248.8	1248.8	1251.9	1254.2	1258.0	1261.8	1267.8	1270.9
15°	1189.6	1185.0	1177.4	1177.4	1172.9	1174.4	1179.0	1180.5	1188.1	1196.4	1206.3
17.5°	1122.0	1110.6	1102.2	1092.4	1084.8	1090.8	1096.2	1099.9	1106.0	1118.9	1125.8
20°	1058.2	1035.4	1019.4	1006.5	998.2	1002.0	1008.8	1013.4	1018.7	1021.7	1024.0
22.5°	995.1	969.3	947.3	931.3	917.6	921.4	918.4	916.1	919.9	910.0	909.3
25°	940.4	910.0	880.4	861.4	844.7	839.4	823.4	819.6	809.0	800.7	794.6
27.5°	900.9	861.4	828.8	806.7	780.1	760.4	739.9	719.4	708.0	694.3	687.5
30°	869.8	828.0	789.3	752.0	717.1	686.7	659.4	632.8	614.5	594.8	581.9
32.5°	840.9	802.2	755.1	704.2	657.1	622.9	587.2	556.8	527.9	502.1	483.1
35°	821.2	777.9	717.9	655.6	602.4	562.1	524.1	480.8	445.9	412.5	392.0
37.5°	810.5	757.4	683.7	614.5	555.3	509.7	462.6	412.5	369.9	338.8	307.7
40°	802.2	736.8	653.3	578.1	515.8	461.1	406.4	347.2	300.1	267.4	243.1
42.5°	793.1	714.1	626.7	549.2	480.1	416.3	350.2	287.1	242.3	219.5	208.9
45°	783.2	694.3	601.6	521.9	445.1	367.7	291.7	233.2	206.6	199.0	199.0
47.5°	780.9	681.4	583.4	495.3	405.6	311.4	237.8	201.3	193.7	195.2	198.3
50°	790.0	677.6	567.4	464.1	353.2	252.2	201.3	189.1	190.7	195.2	199.8
52.5°	812.0	680.6	550.7	420.8	290.9	208.1	186.1	185.4	189.9	196.7	201.3
55°	849.3	680.6	518.8	356.3	232.4	186.9	180.8	183.8	189.9	196.0	199.8
57.5°	929.0	673.8	462.6	284.9	194.5	179.3	179.3	183.1	188.4	194.5	197.5
60°	1024.0	664.7	383.6	220.3	175.5	173.2	178.5	183.1	187.6	192.9	196.0
62.5°	1030.1	641.1	303.9	182.3	165.6	169.4	177.8	183.8	185.4	189.1	192.9
65°	946.5	559.1	241.6	163.3	161.0	167.1	175.5	180.0	180.8	182.3	186.1
67.5°	828.8	455.8	195.2	154.2	156.5	163.3	167.9	171.7	174.0	177.8	178.5
70°	680.6	366.1	167.1	145.1	147.4	155.0	158.8	162.6	167.1	171.7	169.4
72.5°	482.4	284.9	146.6	135.2	138.3	145.1	149.6	152.7	156.5	161.0	158.0
75°	205.1	199.0	126.9	122.3	126.9	131.4	136.0	140.5	144.3	146.6	146.6
77.5°	104.8	117.0	109.4	109.4	112.4	117.0	120.8	125.3	127.6	129.9	132.9
80°	88.9	90.4	91.9	95.0	98.0	102.6	106.3	110.1	110.9	111.7	113.2
82.5°	73.7	76.7	78.2	82.8	85.1	86.6	88.9	88.9	90.4	90.4	88.1
85°	53.2	57.0	59.3	60.0	59.3	60.0	60.8	62.3	66.1	66.1	63.0
87.5°	15.2	14.4	18.2	19.0	20.5	23.5	26.6	31.9	33.4	34.9	34.9
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: P180936

CATALOG NUMBER: ICS-E03-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1436.5	1436.5	1436.5	1436.5
2.5°	1417.5	1419.0	1416.0	1416.7
5°	1396.2	1399.2	1395.4	1400.0
7.5°	1368.9	1373.4	1372.7	1371.9
10°	1329.4	1335.4	1335.4	1337.7
12.5°	1279.2	1283.0	1286.1	1287.6
15°	1211.6	1218.5	1222.2	1222.2
17.5°	1130.3	1134.9	1137.2	1134.1
20°	1027.0	1025.5	1026.3	1018.7
22.5°	907.8	910.0	903.2	904.7
25°	790.8	787.0	790.0	785.5
27.5°	677.6	678.4	670.0	673.8
30°	569.7	565.9	555.3	560.6
32.5°	465.7	455.8	444.4	437.5
35°	367.7	352.5	347.2	344.9
37.5°	288.7	271.9	266.6	260.6
40°	229.4	223.3	221.1	222.6
42.5°	205.9	205.9	207.4	208.1
45°	199.8	202.1	204.3	205.1
47.5°	200.5	202.8	205.9	206.6
50°	202.1	204.3	206.6	207.4
52.5°	202.8	202.8	204.3	205.1
55°	201.3	200.5	201.3	202.1
57.5°	198.3	196.7	197.5	199.8
60°	196.7	194.5	196.0	197.5
62.5°	192.9	192.2	193.7	194.5
65°	184.6	185.4	187.6	187.6
67.5°	177.0	177.8	178.5	179.3
70°	167.9	168.6	170.2	170.9
72.5°	157.2	160.3	162.6	165.6
75°	148.9	151.9	156.5	159.5
77.5°	134.5	136.7	142.1	145.8
80°	113.9	113.2	113.9	116.2
82.5°	87.4	87.4	86.6	85.8
85°	61.5	60.8	58.5	58.5
87.5°	33.4	32.7	31.9	30.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)