

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: P181708

Luminaire Tested: **ICS-E04-LED-E1-T4-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181708
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-E04-LED-E1-T4-7030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9937.2 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 97.2
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



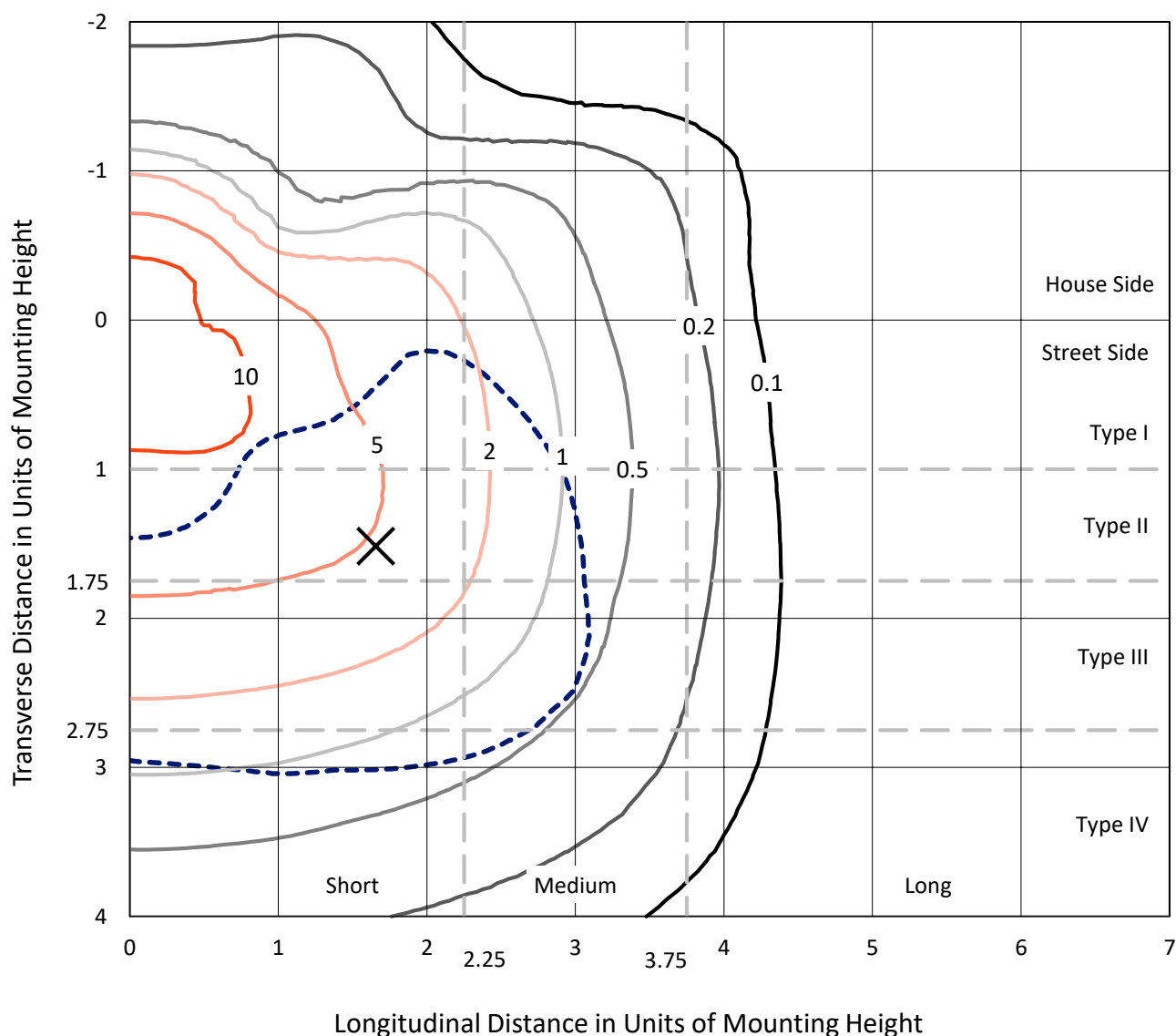
REPORT NUMBER: P181708

CATALOG NUMBER: ICS-E04-LED-E1-T4-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

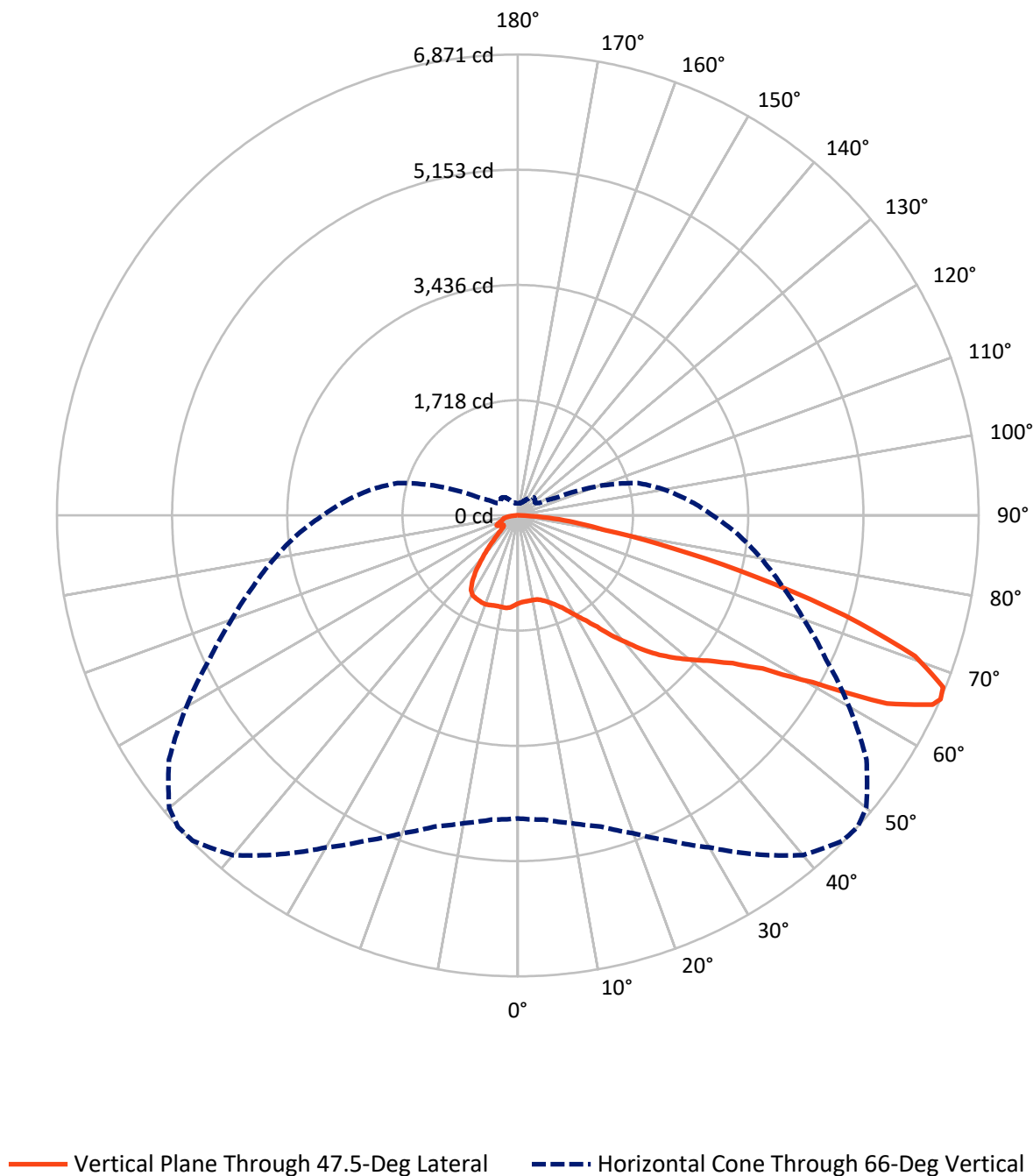


Based on 10 foot mounting height. Maximum calculated value = 13.7 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P181708

CATALOG NUMBER: ICS-E04-LED-E1-T4-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P181708

CATALOG NUMBER: ICS-E04-LED-E1-T4-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2120.4	0.0	2120.4
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	7816.8	0.0	7816.8
	% Fixture	78.7	0.0	78.7
Total	Lumens	9937.2	0.0	9937.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.2	1.3
10°-20°	386.2	3.9
20°-30°	665.2	6.7
30°-40°	1006.3	10.1
40°-50°	1304.4	13.1
50°-60°	1798.3	18.1
60°-70°	2793.9	28.1
70°-80°	1624.7	16.3
80°-90°	231.0	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°	9937.2	100.0
0°-180°	9937.2	100.0

Coefficient of Utilization



REPORT NUMBER: P181708

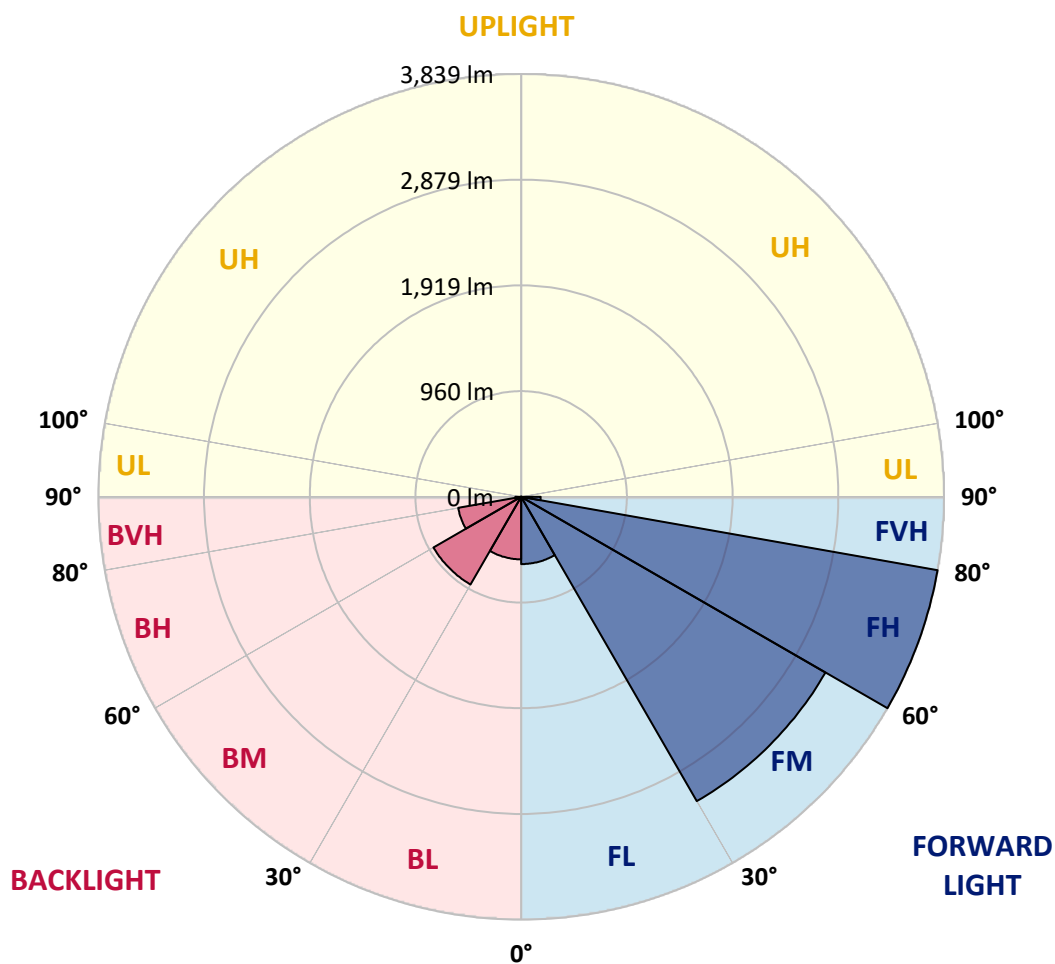
CATALOG NUMBER: ICS-E04-LED-E1-T4-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	611.0	6.1			
FM	(30°-60°)	3189.8	32.1			
FH	(60°-80°)	3838.7	38.6			G2/5000
FVH	(80°-90°)	177.3	1.8			G2/225
BL	(0°-30°)	567.6	5.7	B2/1000		
BM	(30°-60°)	919.2	9.2	B1/1000		
BH	(60°-80°)	579.9	5.8	B2/1000		G2/1000
BVH	(80°-90°)	53.7	0.5			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 IV Short



REPORT NUMBER: P181708

CATALOG NUMBER: ICS-E04-LED-E1-T4-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1309.8	1309.8	1309.8	1309.8	1309.8	1309.8	1309.8	1309.8	1309.8	1309.8	1309.8
2.5°	1285.7	1290.1	1286.8	1287.9	1287.9	1289.0	1289.0	1290.1	1289.0	1292.3	1294.5
5°	1262.7	1264.9	1263.8	1266.0	1268.2	1272.5	1271.5	1276.9	1278.0	1281.3	1286.8
7.5°	1253.9	1251.7	1252.8	1256.1	1258.3	1260.5	1262.7	1267.1	1270.4	1278.0	1282.4
10°	1262.7	1261.6	1262.7	1264.9	1264.9	1266.0	1263.8	1268.2	1270.4	1276.9	1281.3
12.5°	1298.9	1298.9	1296.7	1296.7	1294.5	1292.3	1286.8	1283.5	1282.4	1283.5	1285.7
15°	1356.9	1354.8	1350.4	1347.1	1342.7	1335.0	1327.4	1320.8	1316.4	1309.8	1307.6
17.5°	1413.9	1410.7	1406.3	1401.9	1396.4	1388.7	1376.7	1369.0	1356.9	1349.3	1344.9
20°	1479.7	1473.1	1467.7	1462.2	1451.2	1449.0	1437.0	1423.8	1409.6	1392.0	1389.8
22.5°	1565.2	1554.2	1547.7	1544.4	1533.4	1530.1	1510.4	1491.8	1474.2	1451.2	1445.7
25°	1651.8	1640.8	1637.5	1633.2	1625.5	1621.1	1602.5	1581.6	1558.6	1526.8	1520.3
27.5°	1736.2	1737.3	1728.5	1731.8	1729.6	1721.9	1703.3	1682.5	1664.9	1627.7	1620.0
30°	1841.4	1834.8	1830.5	1837.0	1829.4	1830.5	1814.0	1803.1	1774.6	1752.6	1737.3
32.5°	1951.0	1949.9	1956.5	1960.9	1959.8	1957.6	1944.4	1933.5	1908.3	1876.5	1869.9
35°	2101.2	2107.8	2113.2	2133.0	2133.0	2147.2	2134.1	2120.9	2091.3	2053.0	2039.8
37.5°	2203.1	2205.3	2227.2	2253.5	2286.4	2317.1	2325.9	2329.2	2317.1	2288.6	2268.9
40°	2296.3	2300.7	2335.7	2376.3	2424.5	2484.8	2521.0	2537.4	2540.7	2527.6	2484.8
42.5°	2389.5	2396.0	2432.2	2491.4	2558.3	2635.0	2698.5	2739.1	2762.1	2762.1	2736.9
45°	2498.0	2506.7	2546.2	2610.9	2688.7	2785.1	2872.8	2950.6	2987.9	2990.1	2966.0
47.5°	2626.2	2633.9	2679.9	2745.7	2825.7	2923.2	3033.9	3122.7	3191.8	3196.2	3176.4
50°	2791.7	2802.7	2841.0	2900.2	2982.4	3081.1	3191.8	3315.6	3388.0	3405.5	3384.7
52.5°	3010.9	3013.1	3044.9	3099.7	3179.7	3274.0	3391.3	3526.1	3621.4	3635.7	3601.7
55°	3313.4	3310.2	3331.0	3390.2	3450.5	3523.9	3645.6	3796.8	3903.1	3925.1	3890.0
57.5°	3724.5	3721.2	3738.7	3753.0	3865.9	3937.1	4056.6	4201.3	4304.3	4367.9	4307.6
60°	4361.3	4358.0	4386.5	4469.8	4554.2	4658.3	4774.5	4947.7	5092.4	5111.0	5051.8
62.5°	4822.8	4839.2	4901.7	4999.2	5170.2	5374.1	5586.7	5814.7	6111.7	6206.0	6177.5
65°	4661.6	4694.5	4781.1	4929.1	5157.1	5438.7	5772.0	6185.2	6583.1	6805.6	6799.0
66°	4516.9	4553.1	4659.4	4801.9	5043.1	5351.1	5715.0	6165.5	6610.5	6856.0	6871.3
67.5°	4253.9	4294.4	4398.6	4567.4	4801.9	5129.7	5521.0	6010.9	6514.0	6800.1	6840.6
70°	3742.0	3788.1	3863.7	4002.9	4234.2	4526.8	4938.9	5377.4	5904.6	6232.3	6281.6
72.5°	3128.2	3168.8	3253.2	3367.2	3556.8	3740.9	4064.3	4387.6	4764.7	5138.4	5102.3
75°	2245.9	2263.4	2313.8	2437.7	2539.6	2705.1	2964.9	3230.1	3487.7	3658.7	3682.8
77.5°	1167.3	1213.4	1284.6	1421.6	1532.3	1681.4	1850.2	2049.7	2238.2	2394.9	2352.2
80°	764.0	783.7	847.3	917.4	998.5	1093.9	1206.8	1281.3	1305.4	1295.6	1305.4
82.5°	440.6	476.8	561.2	614.9	675.2	708.1	797.9	883.4	931.7	871.4	849.5
85°	55.9	72.3	228.0	287.2	328.8	378.1	405.5	457.1	426.4	381.4	464.7
87.5°	12.1	11.0	15.3	32.9	34.0	28.5	53.7	57.0	35.1	17.5	21.9
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: P181708

CATALOG NUMBER: ICS-E04-LED-E1-T4-7030

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1309.8	1309.8	1309.8	1309.8	1309.8	1309.8	1309.8	1309.8	1309.8	1309.8	1309.8
2.5°	1296.7	1297.8	1300.0	1303.2	1305.4	1307.6	1309.8	1313.1	1315.3	1317.5	1321.9
5°	1291.2	1295.6	1300.0	1304.3	1309.8	1318.6	1324.1	1328.4	1332.8	1341.6	1344.9
7.5°	1287.9	1295.6	1302.1	1309.8	1318.6	1326.3	1336.1	1341.6	1348.2	1353.7	1360.2
10°	1285.7	1296.7	1303.2	1314.2	1324.1	1331.7	1342.7	1349.3	1356.9	1363.5	1366.8
12.5°	1290.1	1295.6	1302.1	1313.1	1325.2	1336.1	1348.2	1353.7	1360.2	1365.7	1366.8
15°	1308.7	1308.7	1309.8	1318.6	1330.6	1339.4	1349.3	1354.8	1358.0	1361.3	1361.3
17.5°	1342.7	1335.0	1329.5	1330.6	1338.3	1343.8	1349.3	1349.3	1347.1	1346.0	1343.8
20°	1382.2	1372.3	1361.3	1353.7	1351.5	1347.1	1343.8	1332.8	1324.1	1316.4	1310.9
22.5°	1439.2	1423.8	1408.5	1394.2	1381.1	1364.6	1346.0	1324.1	1303.2	1289.0	1280.2
25°	1509.3	1497.2	1478.6	1456.7	1440.2	1409.6	1385.4	1353.7	1327.4	1308.7	1293.4
27.5°	1609.0	1594.8	1577.3	1557.5	1533.4	1499.4	1469.8	1432.6	1400.8	1373.4	1353.7
30°	1732.9	1714.3	1701.1	1677.0	1660.6	1622.2	1592.6	1546.6	1485.2	1441.3	1413.9
32.5°	1860.0	1839.2	1828.3	1809.6	1791.0	1768.0	1723.0	1651.8	1572.9	1501.6	1454.5
35°	2029.9	2008.0	1988.3	1971.8	1944.4	1901.7	1862.2	1776.7	1668.2	1568.5	1489.6
37.5°	2243.7	2207.5	2158.2	2116.5	2068.3	2006.9	1946.6	1859.0	1735.1	1605.8	1500.5
40°	2471.7	2408.1	2337.9	2260.1	2176.8	2088.0	2019.0	1930.2	1791.0	1637.5	1492.9
42.5°	2709.5	2608.7	2511.1	2401.5	2285.3	2180.1	2090.2	1992.7	1832.6	1646.3	1462.2
45°	2945.2	2832.3	2684.3	2540.7	2393.8	2263.4	2162.6	2053.0	1871.0	1649.6	1421.6
47.5°	3140.3	3024.1	2855.3	2675.5	2501.3	2353.3	2234.9	2116.5	1922.5	1672.6	1411.8
50°	3346.3	3204.9	3017.5	2804.9	2607.6	2442.1	2316.0	2193.3	1994.9	1731.8	1443.5
52.5°	3571.0	3408.8	3189.6	2951.7	2735.8	2550.6	2413.6	2287.5	2086.9	1815.1	1503.8
55°	3845.0	3646.7	3408.8	3140.3	2909.0	2704.0	2552.8	2403.7	2196.5	1913.8	1579.5
57.5°	4263.8	4020.4	3753.0	3447.2	3190.7	2948.5	2767.6	2595.5	2366.4	2060.6	1682.5
60°	5021.1	4761.4	4413.9	4043.4	3742.0	3459.2	3194.0	2980.2	2698.5	2350.0	1910.5
62.5°	6106.3	5761.0	5297.4	4778.9	4384.3	3976.6	3677.3	3359.5	3009.8	2633.9	2179.0
65°	6709.1	6290.4	5670.0	5068.3	4560.8	4118.0	3737.6	3369.4	2981.3	2621.8	2241.5
66°	6783.6	6347.4	5702.9	5069.4	4536.7	4081.8	3681.7	3300.3	2903.5	2560.4	2215.2
67.5°	6752.9	6306.8	5642.6	4974.0	4432.5	3943.7	3530.5	3134.8	2739.1	2419.0	2127.5
70°	6249.8	5826.8	5174.6	4526.8	4012.7	3530.5	3135.9	2746.8	2384.0	2110.0	1895.1
72.5°	5189.9	4828.2	4261.6	3753.0	3349.6	2951.7	2617.4	2245.9	1939.0	1736.2	1609.0
75°	3746.4	3527.2	3010.9	2719.4	2365.3	2101.2	1776.7	1556.4	1336.1	1237.5	1215.6
77.5°	2366.4	2071.6	1743.9	1435.9	1180.5	978.8	761.8	646.7	539.3	528.3	637.9
80°	1198.0	1078.5	830.8	662.0	556.8	450.5	356.2	269.6	188.5	226.9	271.8
82.5°	784.8	654.4	513.0	422.0	367.2	304.7	236.8	164.4	120.6	135.9	186.3
85°	424.2	361.7	291.6	230.2	186.3	166.6	111.8	78.9	77.8	83.3	106.3
87.5°	30.7	30.7	24.1	21.9	26.3	21.9	19.7	19.7	18.6	19.7	26.3
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: P181708

CATALOG NUMBER: ICS-E04-LED-E1-T4-7030

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1309.8	1309.8	1309.8	1309.8	1309.8	1309.8	1309.8	1309.8	1309.8	1309.8	1309.8
2.5°	1324.1	1327.4	1328.4	1333.9	1337.2	1339.4	1341.6	1341.6	1342.7	1346.0	1347.1
5°	1349.3	1354.8	1361.3	1365.7	1367.9	1374.5	1376.7	1376.7	1378.9	1383.3	1386.5
7.5°	1364.6	1372.3	1378.9	1381.1	1385.4	1387.6	1390.9	1393.1	1393.1	1397.5	1399.7
10°	1370.1	1374.5	1381.1	1381.1	1385.4	1385.4	1388.7	1389.8	1389.8	1394.2	1397.5
12.5°	1370.1	1372.3	1377.8	1377.8	1381.1	1382.2	1386.5	1389.8	1390.9	1396.4	1400.8
15°	1363.5	1365.7	1370.1	1371.2	1378.9	1383.3	1393.1	1399.7	1399.7	1405.2	1407.4
17.5°	1344.9	1350.4	1359.1	1367.9	1382.2	1392.0	1404.1	1409.6	1405.2	1401.9	1398.6
20°	1314.2	1324.1	1344.9	1366.8	1392.0	1405.2	1411.8	1406.3	1390.9	1375.6	1365.7
22.5°	1283.5	1303.2	1338.3	1371.2	1399.7	1408.5	1405.2	1385.4	1360.2	1341.6	1328.4
25°	1297.8	1320.8	1354.8	1384.3	1403.0	1400.8	1387.6	1360.2	1332.8	1308.7	1286.8
27.5°	1356.9	1382.2	1400.8	1410.7	1408.5	1393.1	1372.3	1341.6	1308.7	1276.9	1246.2
30°	1412.8	1426.0	1430.4	1422.7	1405.2	1380.0	1353.7	1318.6	1274.7	1235.3	1200.2
32.5°	1438.1	1424.9	1404.1	1383.3	1354.8	1332.8	1296.7	1258.3	1203.5	1156.4	1121.3
35°	1438.1	1385.4	1332.8	1289.0	1246.2	1218.8	1177.2	1125.7	1075.3	1035.8	1008.4
37.5°	1406.3	1305.4	1218.8	1147.6	1093.9	1064.3	1001.8	955.8	913.0	899.9	882.3
40°	1348.2	1199.1	1074.2	981.0	913.0	869.2	806.7	774.9	758.5	751.9	748.6
42.5°	1270.4	1080.7	914.1	799.0	725.6	676.3	634.6	614.9	613.8	612.7	612.7
45°	1187.1	953.6	758.5	621.5	556.8	513.0	493.2	485.6	492.1	491.0	492.1
47.5°	1135.5	857.1	616.0	470.2	420.9	392.4	382.5	385.8	391.3	389.1	389.1
50°	1129.0	807.8	520.6	366.1	328.8	314.6	312.4	312.4	315.7	313.5	312.4
52.5°	1153.1	800.1	471.3	314.6	285.0	272.9	270.7	269.6	268.5	262.0	256.5
55°	1194.7	817.7	457.1	301.4	270.7	257.6	254.3	252.1	247.7	238.9	229.1
57.5°	1278.0	872.5	470.2	308.0	275.1	264.2	260.9	260.9	252.1	237.8	223.6
60°	1478.6	1011.7	523.9	333.2	295.9	285.0	287.2	286.1	272.9	252.1	230.2
62.5°	1737.3	1193.6	594.1	368.3	322.2	320.1	331.0	328.8	306.9	275.1	243.3
65°	1856.8	1279.1	613.8	376.0	327.7	337.6	359.5	357.3	329.9	286.1	245.5
66°	1859.0	1279.1	605.0	369.4	320.1	332.1	354.0	352.9	325.5	281.7	241.1
67.5°	1814.0	1244.1	579.8	356.2	304.7	313.5	333.2	332.1	306.9	270.7	232.4
70°	1645.2	1113.6	515.2	333.2	283.9	279.5	286.1	281.7	265.3	240.0	213.7
72.5°	1409.6	935.0	449.4	315.7	269.6	252.1	247.7	244.4	231.3	217.0	200.6
75°	1110.3	739.9	394.6	302.5	256.5	233.5	225.8	221.4	212.6	202.8	189.6
77.5°	685.1	529.4	344.2	285.0	246.6	223.6	218.1	211.5	198.4	186.3	176.5
80°	305.8	327.7	282.8	248.8	220.3	199.5	190.7	180.9	167.7	160.0	154.5
82.5°	203.9	211.5	205.0	186.3	166.6	150.2	137.0	137.0	134.8	128.2	126.0
85°	130.4	131.5	127.1	115.1	107.4	97.6	92.1	93.2	97.6	96.5	95.4
87.5°	29.6	29.6	35.1	32.9	38.4	40.6	43.8	47.1	53.7	53.7	57.0
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: P181708

CATALOG NUMBER: ICS-E04-LED-E1-T4-7030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	1309.8	1309.8	1309.8	1309.8	1309.8
2.5°	1348.2	1350.4	1352.6	1349.3	1350.4
5°	1386.5	1385.4	1390.9	1387.6	1389.8
7.5°	1398.6	1399.7	1404.1	1404.1	1405.2
10°	1399.7	1401.9	1407.4	1410.7	1412.8
12.5°	1405.2	1409.6	1418.3	1420.5	1420.5
15°	1409.6	1411.8	1417.2	1419.4	1421.6
17.5°	1394.2	1389.8	1392.0	1393.1	1392.0
20°	1355.9	1351.5	1350.4	1346.0	1348.2
22.5°	1314.2	1302.1	1294.5	1285.7	1285.7
25°	1263.8	1245.1	1229.8	1214.5	1217.7
27.5°	1216.6	1192.5	1177.2	1167.3	1165.1
30°	1170.6	1145.4	1131.2	1119.1	1119.1
32.5°	1093.9	1076.4	1057.7	1050.0	1048.9
35°	987.6	976.6	961.3	958.0	952.5
37.5°	868.1	864.8	851.7	850.6	845.1
40°	743.1	745.3	741.0	738.8	735.5
42.5°	618.2	629.1	627.0	625.9	623.7
45°	498.7	506.4	507.5	510.8	516.3
47.5°	392.4	394.6	396.8	395.7	396.8
50°	306.9	301.4	300.3	297.0	300.3
52.5°	247.7	238.9	234.6	230.2	228.0
55°	218.1	209.4	205.0	202.8	200.6
57.5°	210.4	201.7	195.1	190.7	189.6
60°	212.6	199.5	190.7	185.2	184.1
62.5°	218.1	200.6	188.5	183.0	181.9
65°	217.0	198.4	187.4	180.9	179.8
66°	213.7	196.2	185.2	179.8	178.7
67.5°	208.3	192.9	183.0	178.7	176.5
70°	198.4	188.5	180.9	175.4	173.2
72.5°	189.6	181.9	175.4	169.9	168.8
75°	179.8	173.2	166.6	162.2	161.1
77.5°	167.7	161.1	156.7	153.5	152.4
80°	148.0	143.6	139.2	134.8	134.8
82.5°	122.8	119.5	115.1	111.8	110.7
85°	94.3	94.3	91.0	87.7	86.6
87.5°	55.9	54.8	54.8	51.5	51.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)