

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: P181687

Luminaire Tested: **ICS-E02-LED-E1-T4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181687
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-E02-LED-E1-T4-8030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4591.3 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 52.1
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

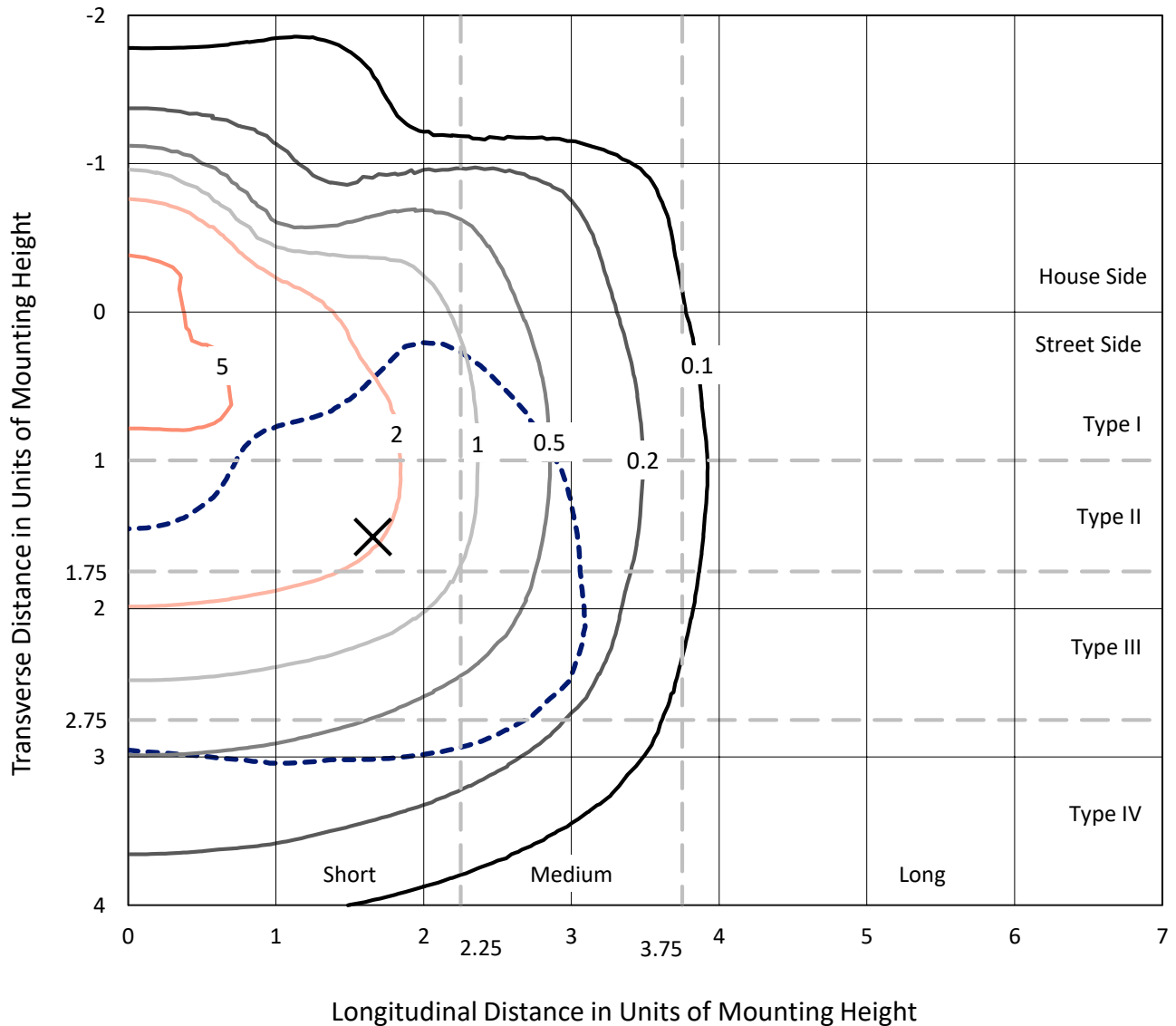


REPORT NUMBER: P181687

CATALOG NUMBER: ICS-E02-LED-E1-T4-8030

Iso-Footcandle Lines of Horizontal Illumination

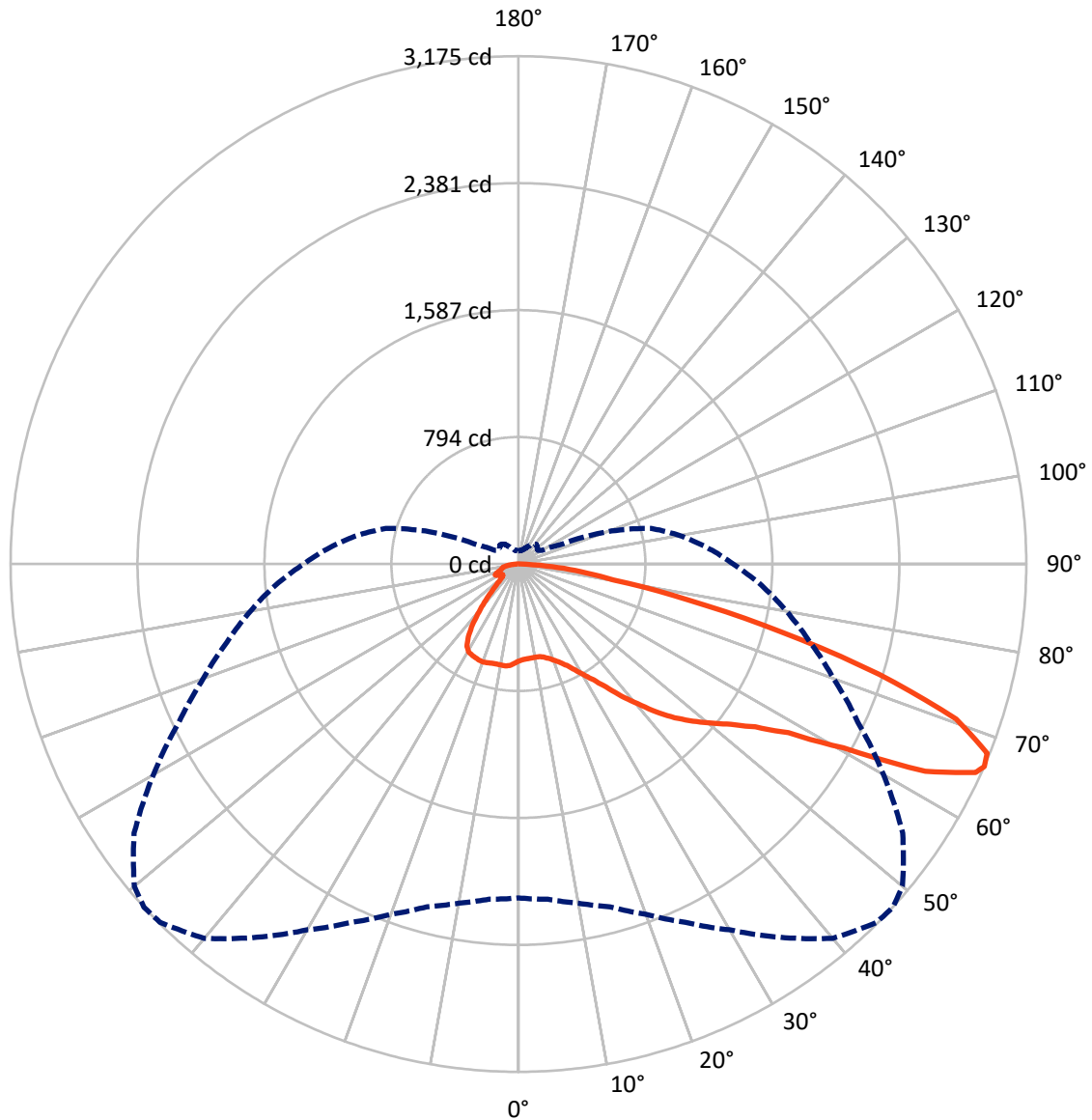
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P181687
CATALOG NUMBER: ICS-E02-LED-E1-T4-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P181687

CATALOG NUMBER: ICS-E02-LED-E1-T4-8030

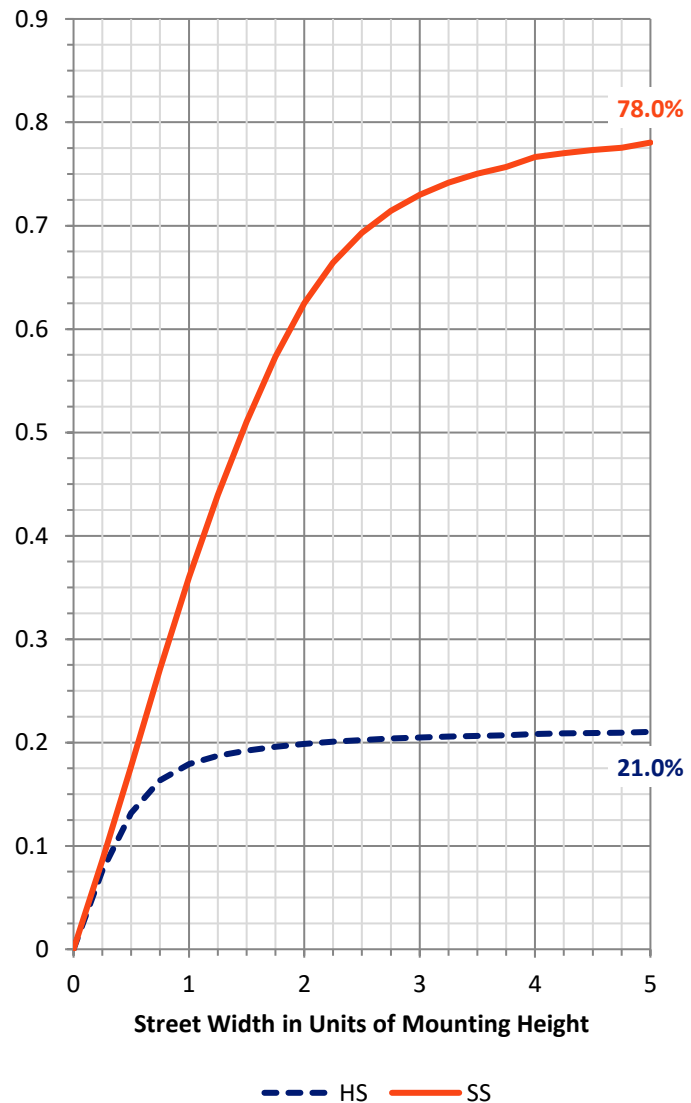
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	979.7	0.0	979.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	3611.6	0.0	3611.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	4591.3	0.0	4591.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.8	1.3
10°-20°	178.4	3.9
20°-30°	307.3	6.7
30°-40°	465.0	10.1
40°-50°	602.7	13.1
50°-60°	830.9	18.1
60°-70°	1290.9	28.1
70°-80°	750.7	16.3
80°-90°	106.7	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°	4591.3	100.0
0°-180°	4591.3	100.0



REPORT NUMBER: P181687

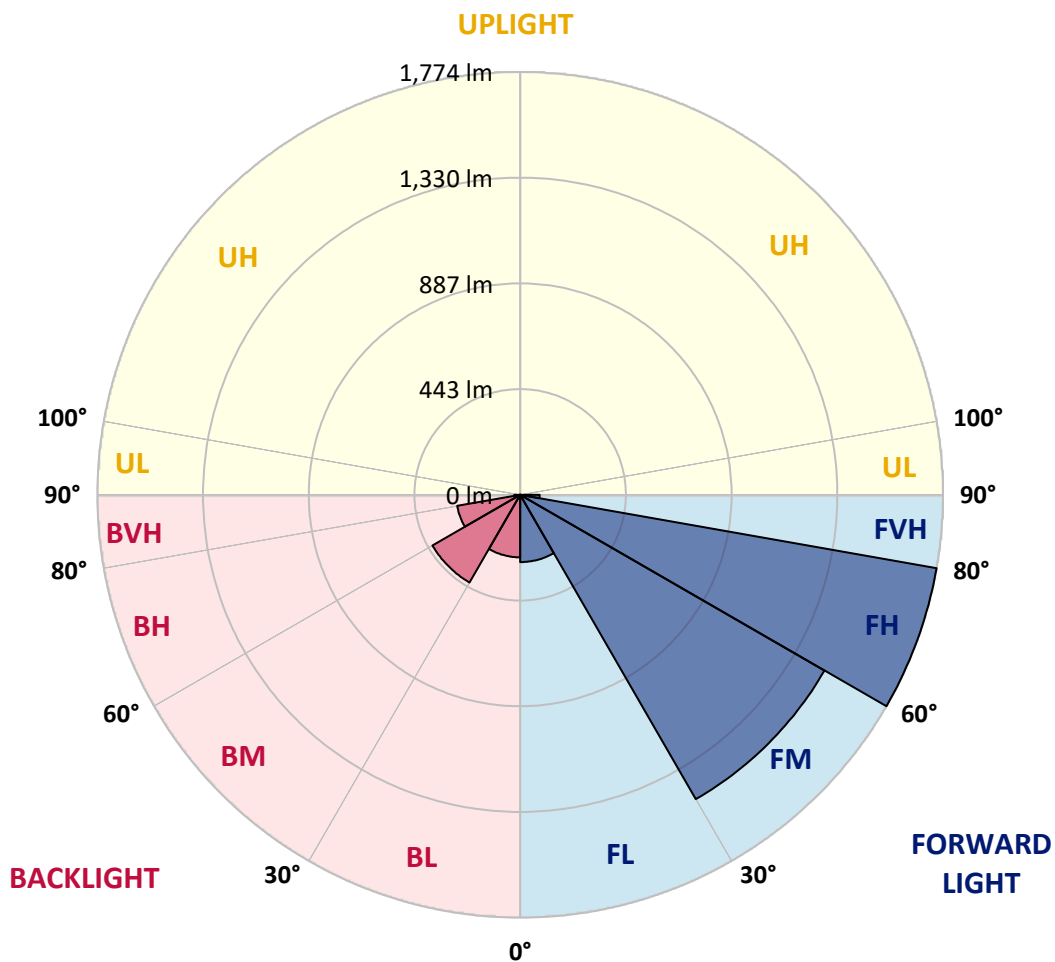
CATALOG NUMBER: ICS-E02-LED-E1-T4-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	282.3	6.1			
FM	(30°-60°)	1473.8	32.1			
FH	(60°-80°)	1773.6	38.6			G1/1800
FVH	(80°-90°)	81.9	1.8			G1/100
BL	(0°-30°)	262.2	5.7	B1/500		
BM	(30°-60°)	424.7	9.2	B1/1000		
BH	(60°-80°)	267.9	5.8	B1/500		G1/500
BVH	(80°-90°)	24.8	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-G1

Type IV Short





REPORT NUMBER: P181687

CATALOG NUMBER: ICS-E02-LED-E1-T4-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	605.2	605.2	605.2	605.2	605.2	605.2	605.2	605.2	605.2	605.2	605.2
2.5°	594.0	596.1	594.5	595.0	595.0	595.6	595.6	596.1	595.6	597.1	598.1
5°	583.4	584.4	583.9	584.9	585.9	588.0	587.4	590.0	590.5	592.0	594.5
7.5°	579.3	578.3	578.8	580.4	581.4	582.4	583.4	585.4	586.9	590.5	592.5
10°	583.4	582.9	583.4	584.4	584.4	584.9	583.9	585.9	586.9	590.0	592.0
12.5°	600.1	600.1	599.1	599.1	598.1	597.1	594.5	593.0	592.5	593.0	594.0
15°	627.0	625.9	623.9	622.4	620.4	616.8	613.3	610.2	608.2	605.2	604.2
17.5°	653.3	651.8	649.7	647.7	645.2	641.6	636.1	632.5	627.0	623.4	621.4
20°	683.7	680.6	678.1	675.6	670.5	669.5	663.9	657.8	651.3	643.2	642.1
22.5°	723.2	718.1	715.1	713.5	708.5	707.0	697.8	689.2	681.1	670.5	668.0
25°	763.2	758.1	756.6	754.6	751.0	749.0	740.4	730.8	720.1	705.4	702.4
27.5°	802.2	802.7	798.6	800.1	799.1	795.6	787.0	777.4	769.3	752.0	748.5
30°	850.8	847.8	845.7	848.8	845.2	845.7	838.1	833.1	819.9	809.8	802.7
32.5°	901.4	900.9	904.0	906.0	905.5	904.5	898.4	893.3	881.7	867.0	864.0
35°	970.8	973.8	976.4	985.5	985.5	992.1	986.0	979.9	966.3	948.5	942.5
37.5°	1017.9	1018.9	1029.0	1041.2	1056.4	1070.6	1074.6	1076.1	1070.6	1057.4	1048.3
40°	1061.0	1063.0	1079.2	1097.9	1120.2	1148.1	1164.8	1172.4	1173.9	1167.8	1148.1
42.5°	1104.0	1107.0	1123.8	1151.1	1182.0	1217.4	1246.8	1265.5	1276.2	1276.2	1264.5
45°	1154.1	1158.2	1176.4	1206.3	1242.3	1286.8	1327.3	1363.3	1380.5	1381.5	1370.4
47.5°	1213.4	1216.9	1238.2	1268.6	1305.6	1350.6	1401.8	1442.8	1474.7	1476.7	1467.6
50°	1289.9	1294.9	1312.6	1340.0	1378.0	1423.6	1474.7	1531.9	1565.4	1573.5	1563.8
52.5°	1391.1	1392.2	1406.8	1432.2	1469.1	1512.7	1566.9	1629.2	1673.2	1679.8	1664.1
55°	1530.9	1529.4	1539.0	1566.4	1594.2	1628.1	1684.4	1754.2	1803.4	1813.5	1797.3
57.5°	1720.8	1719.3	1727.4	1734.0	1786.2	1819.1	1874.3	1941.1	1988.7	2018.1	1990.2
60°	2015.1	2013.5	2026.7	2065.2	2104.2	2152.3	2206.0	2286.0	2352.8	2361.4	2334.1
62.5°	2228.3	2235.9	2264.7	2309.8	2388.8	2483.0	2581.2	2686.6	2823.8	2867.4	2854.2
65°	2153.8	2169.0	2209.0	2277.4	2382.7	2512.9	2666.8	2857.7	3041.6	3144.4	3141.3
66°	2087.0	2103.7	2152.8	2218.6	2330.0	2472.4	2640.5	2848.6	3054.2	3167.7	3174.8
67.5°	1965.4	1984.2	2032.3	2110.3	2218.6	2370.1	2550.8	2777.2	3009.7	3141.8	3160.6
70°	1728.9	1750.2	1785.1	1849.5	1956.3	2091.5	2281.9	2484.5	2728.1	2879.5	2902.3
72.5°	1445.3	1464.1	1503.1	1555.7	1643.3	1728.4	1877.8	2027.2	2201.4	2374.1	2357.4
75°	1037.7	1045.8	1069.1	1126.3	1173.4	1249.8	1369.9	1492.4	1611.4	1690.4	1701.6
77.5°	539.3	560.6	593.5	656.8	708.0	776.9	854.8	947.0	1034.1	1106.5	1086.8
80°	353.0	362.1	391.5	423.9	461.4	505.4	557.6	592.0	603.1	598.6	603.1
82.5°	203.6	220.3	259.3	284.1	312.0	327.1	368.7	408.2	430.5	402.6	392.5
85°	25.8	33.4	105.3	132.7	151.9	174.7	187.4	211.2	197.0	176.2	214.7
87.5°	5.6	5.1	7.1	15.2	15.7	13.2	24.8	26.3	16.2	8.1	10.1
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: P181687

CATALOG NUMBER: ICS-E02-LED-E1-T4-8030

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	605.2	605.2	605.2	605.2	605.2	605.2	605.2	605.2	605.2	605.2	605.2
2.5°	599.1	599.6	600.6	602.1	603.1	604.2	605.2	606.7	607.7	608.7	610.7
5°	596.6	598.6	600.6	602.6	605.2	609.2	611.8	613.8	615.8	619.9	621.4
7.5°	595.0	598.6	601.6	605.2	609.2	612.8	617.3	619.9	622.9	625.4	628.5
10°	594.0	599.1	602.1	607.2	611.8	615.3	620.4	623.4	627.0	630.0	631.5
12.5°	596.1	598.6	601.6	606.7	612.3	617.3	622.9	625.4	628.5	631.0	631.5
15°	604.7	604.7	605.2	609.2	614.8	618.8	623.4	625.9	627.5	629.0	629.0
17.5°	620.4	616.8	614.3	614.8	618.3	620.9	623.4	623.4	622.4	621.9	620.9
20°	638.6	634.0	629.0	625.4	624.4	622.4	620.9	615.8	611.8	608.2	605.7
22.5°	664.9	657.8	650.8	644.2	638.1	630.5	621.9	611.8	602.1	595.6	591.5
25°	697.3	691.8	683.2	673.0	665.4	651.3	640.1	625.4	613.3	604.7	597.6
27.5°	743.4	736.8	728.7	719.6	708.5	692.8	679.1	661.9	647.2	634.5	625.4
30°	800.7	792.0	786.0	774.8	767.2	749.5	735.8	714.6	686.2	665.9	653.3
32.5°	859.4	849.8	844.7	836.1	827.5	816.9	796.1	763.2	726.7	693.8	672.0
35°	937.9	927.8	918.6	911.1	898.4	878.6	860.4	820.9	770.8	724.7	688.2
37.5°	1036.6	1019.9	997.1	977.9	955.6	927.3	899.4	858.9	801.7	741.9	693.3
40°	1142.0	1112.6	1080.2	1044.2	1005.8	964.7	932.8	891.8	827.5	756.6	689.7
42.5°	1251.9	1205.3	1160.2	1109.6	1055.9	1007.3	965.7	920.7	846.7	760.6	675.6
45°	1360.8	1308.6	1240.2	1173.9	1106.0	1045.8	999.2	948.5	864.5	762.2	656.8
47.5°	1450.9	1397.2	1319.2	1236.2	1155.7	1087.3	1032.6	977.9	888.3	772.8	652.3
50°	1546.1	1480.8	1394.2	1295.9	1204.8	1128.3	1070.1	1013.4	921.7	800.1	667.0
52.5°	1649.9	1575.0	1473.7	1363.8	1264.0	1178.4	1115.1	1056.9	964.2	838.6	694.8
55°	1776.5	1684.9	1575.0	1450.9	1344.0	1249.3	1179.5	1110.6	1014.9	884.2	729.8
57.5°	1970.0	1857.6	1734.0	1592.7	1474.2	1362.3	1278.7	1199.2	1093.4	952.1	777.4
60°	2319.9	2199.9	2039.4	1868.2	1728.9	1598.3	1475.7	1377.0	1246.8	1085.8	882.7
62.5°	2821.3	2661.8	2447.5	2208.0	2025.7	1837.3	1699.0	1552.2	1390.6	1216.9	1006.8
65°	3099.8	2906.4	2619.7	2341.7	2107.2	1902.6	1726.9	1556.7	1377.5	1211.4	1035.6
66°	3134.2	2932.7	2634.9	2342.2	2096.1	1885.9	1701.1	1524.8	1341.5	1183.0	1023.5
67.5°	3120.1	2914.0	2607.1	2298.1	2048.0	1822.1	1631.2	1448.4	1265.5	1117.7	983.0
70°	2887.6	2692.1	2390.8	2091.5	1854.0	1631.2	1448.9	1269.1	1101.5	974.9	875.6
72.5°	2397.9	2230.8	1969.0	1734.0	1547.6	1363.8	1209.3	1037.7	895.9	802.2	743.4
75°	1731.0	1629.7	1391.1	1256.4	1092.9	970.8	820.9	719.1	617.3	571.8	561.6
77.5°	1093.4	957.1	805.7	663.4	545.4	452.2	352.0	298.8	249.2	244.1	294.7
80°	553.5	498.3	383.9	305.9	257.3	208.1	164.6	124.6	87.1	104.8	125.6
82.5°	362.6	302.3	237.0	195.0	169.7	140.8	109.4	76.0	55.7	62.8	86.1
85°	196.0	167.1	134.7	106.3	86.1	77.0	51.7	36.5	36.0	38.5	49.1
87.5°	14.2	14.2	11.1	10.1	12.2	10.1	9.1	9.1	8.6	9.1	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: P181687

CATALOG NUMBER: ICS-E02-LED-E1-T4-8030

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	605.2	605.2	605.2	605.2	605.2	605.2	605.2	605.2	605.2	605.2	605.2
2.5°	611.8	613.3	613.8	616.3	617.8	618.8	619.9	619.9	620.4	621.9	622.4
5°	623.4	625.9	629.0	631.0	632.0	635.1	636.1	636.1	637.1	639.1	640.6
7.5°	630.5	634.0	637.1	638.1	640.1	641.1	642.6	643.7	643.7	645.7	646.7
10°	633.0	635.1	638.1	638.1	640.1	640.1	641.6	642.1	642.1	644.2	645.7
12.5°	633.0	634.0	636.6	636.6	638.1	638.6	640.6	642.1	642.6	645.2	647.2
15°	630.0	631.0	633.0	633.5	637.1	639.1	643.7	646.7	646.7	649.2	650.2
17.5°	621.4	623.9	628.0	632.0	638.6	643.2	648.7	651.3	649.2	647.7	646.2
20°	607.2	611.8	621.4	631.5	643.2	649.2	652.3	649.7	642.6	635.6	631.0
22.5°	593.0	602.1	618.3	633.5	646.7	650.8	649.2	640.1	628.5	619.9	613.8
25°	599.6	610.2	625.9	639.6	648.2	647.2	641.1	628.5	615.8	604.7	594.5
27.5°	627.0	638.6	647.2	651.8	650.8	643.7	634.0	619.9	604.7	590.0	575.8
30°	652.8	658.9	660.9	657.3	649.2	637.6	625.4	609.2	589.0	570.7	554.5
32.5°	664.4	658.3	648.7	639.1	625.9	615.8	599.1	581.4	556.1	534.3	518.1
35°	664.4	640.1	615.8	595.6	575.8	563.1	543.9	520.1	496.8	478.6	465.9
37.5°	649.7	603.1	563.1	530.2	505.4	491.7	462.9	441.6	421.8	415.8	407.7
40°	622.9	554.0	496.3	453.2	421.8	401.6	372.7	358.0	350.4	347.4	345.9
42.5°	586.9	499.3	422.4	369.2	335.3	312.5	293.2	284.1	283.6	283.1	283.1
45°	548.5	440.6	350.4	287.1	257.3	237.0	227.9	224.3	227.4	226.9	227.4
47.5°	524.7	396.0	284.6	217.3	194.5	181.3	176.7	178.3	180.8	179.8	179.8
50°	521.6	373.2	240.6	169.1	151.9	145.3	144.3	144.3	145.8	144.8	144.3
52.5°	532.8	369.7	217.8	145.3	131.7	126.1	125.1	124.6	124.1	121.0	118.5
55°	552.0	377.8	211.2	139.3	125.1	119.0	117.5	116.5	114.5	110.4	105.8
57.5°	590.5	403.1	217.3	142.3	127.1	122.0	120.5	120.5	116.5	109.9	103.3
60°	683.2	467.4	242.1	154.0	136.7	131.7	132.7	132.2	126.1	116.5	106.3
62.5°	802.7	551.5	274.5	170.2	148.9	147.9	152.9	151.9	141.8	127.1	112.4
65°	857.9	591.0	283.6	173.7	151.4	156.0	166.1	165.1	152.4	132.2	113.4
66°	858.9	591.0	279.5	170.7	147.9	153.4	163.6	163.1	150.4	130.2	111.4
67.5°	838.1	574.8	267.9	164.6	140.8	144.8	154.0	153.4	141.8	125.1	107.4
70°	760.1	514.5	238.0	154.0	131.2	129.1	132.2	130.2	122.6	110.9	98.8
72.5°	651.3	432.0	207.6	145.8	124.6	116.5	114.5	112.9	106.9	100.3	92.7
75°	513.0	341.8	182.3	139.8	118.5	107.9	104.3	102.3	98.2	93.7	87.6
77.5°	316.5	244.6	159.0	131.7	113.9	103.3	100.8	97.7	91.7	86.1	81.5
80°	141.3	151.4	130.7	115.0	101.8	92.2	88.1	83.6	77.5	73.9	71.4
82.5°	94.2	97.7	94.7	86.1	77.0	69.4	63.3	63.3	62.3	59.3	58.2
85°	60.3	60.8	58.7	53.2	49.6	45.1	42.5	43.0	45.1	44.6	44.1
87.5°	13.7	13.7	16.2	15.2	17.7	18.7	20.3	21.8	24.8	24.8	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: P181687

CATALOG NUMBER: ICS-E02-LED-E1-T4-8030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	605.2	605.2	605.2	605.2	605.2
2.5°	622.9	623.9	624.9	623.4	623.9
5°	640.6	640.1	642.6	641.1	642.1
7.5°	646.2	646.7	648.7	648.7	649.2
10°	646.7	647.7	650.2	651.8	652.8
12.5°	649.2	651.3	655.3	656.3	656.3
15°	651.3	652.3	654.8	655.8	656.8
17.5°	644.2	642.1	643.2	643.7	643.2
20°	626.4	624.4	623.9	621.9	622.9
22.5°	607.2	601.6	598.1	594.0	594.0
25°	583.9	575.3	568.2	561.1	562.6
27.5°	562.1	551.0	543.9	539.3	538.3
30°	540.9	529.2	522.6	517.1	517.1
32.5°	505.4	497.3	488.7	485.2	484.6
35°	456.3	451.2	444.1	442.6	440.1
37.5°	401.1	399.6	393.5	393.0	390.5
40°	343.4	344.4	342.3	341.3	339.8
42.5°	285.6	290.7	289.7	289.2	288.2
45°	230.4	234.0	234.5	236.0	238.5
47.5°	181.3	182.3	183.3	182.8	183.3
50°	141.8	139.3	138.8	137.2	138.8
52.5°	114.5	110.4	108.4	106.3	105.3
55°	100.8	96.7	94.7	93.7	92.7
57.5°	97.2	93.2	90.1	88.1	87.6
60°	98.2	92.2	88.1	85.6	85.1
62.5°	100.8	92.7	87.1	84.6	84.1
65°	100.3	91.7	86.6	83.6	83.1
66°	98.8	90.6	85.6	83.1	82.5
67.5°	96.2	89.1	84.6	82.5	81.5
70°	91.7	87.1	83.6	81.0	80.0
72.5°	87.6	84.1	81.0	78.5	78.0
75°	83.1	80.0	77.0	75.0	74.4
77.5°	77.5	74.4	72.4	70.9	70.4
80°	68.4	66.3	64.3	62.3	62.3
82.5°	56.7	55.2	53.2	51.7	51.1
85°	43.6	43.6	42.0	40.5	40.0
87.5°	25.8	25.3	25.3	23.8	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)