

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: P180648

Luminaire Tested: **ICS-E04-LED-E1-SL3-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180648
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
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-SL3-HSS
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6242.1 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

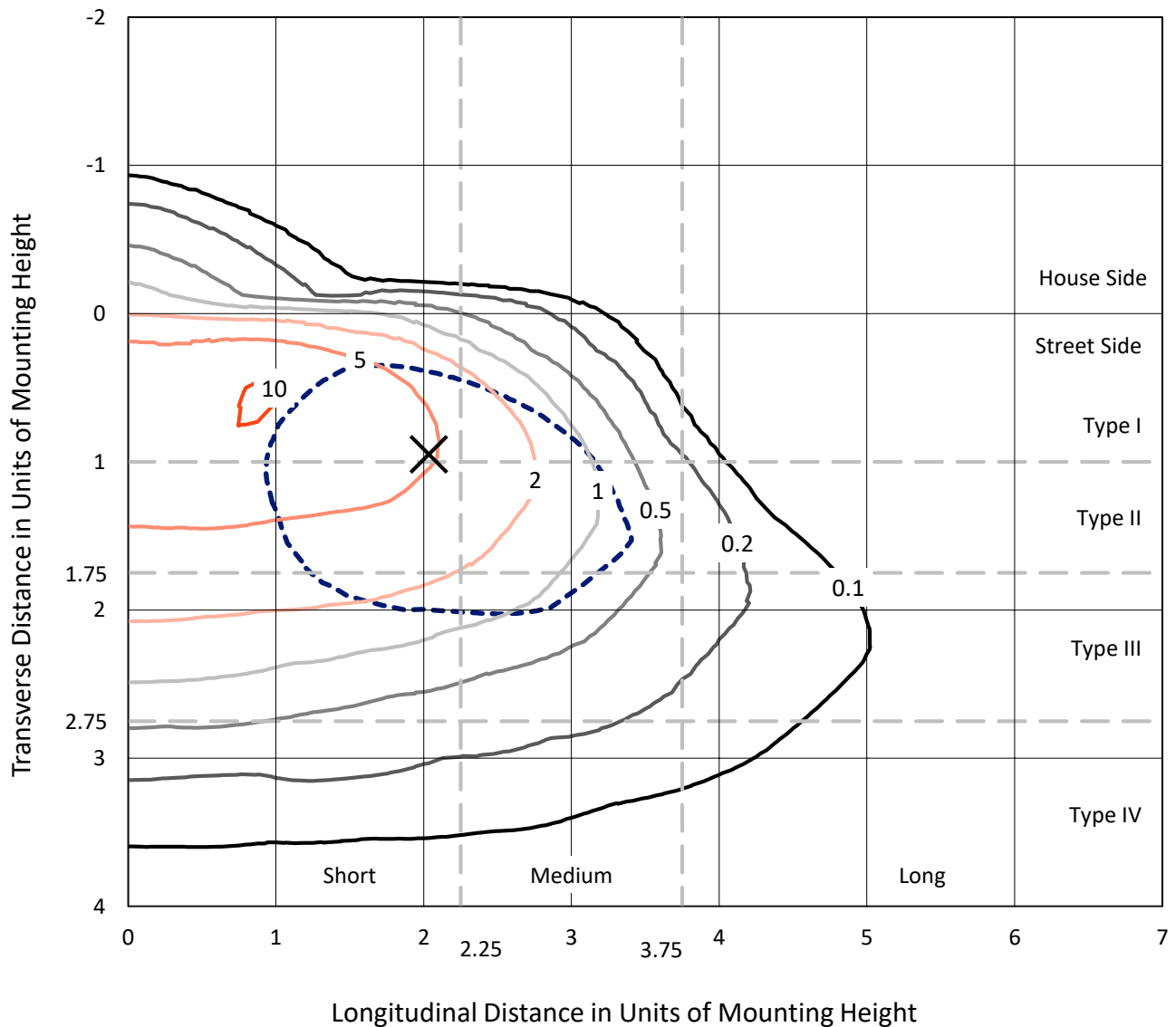
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P180648
 CATALOG NUMBER: ICS-E04-LED-E1-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

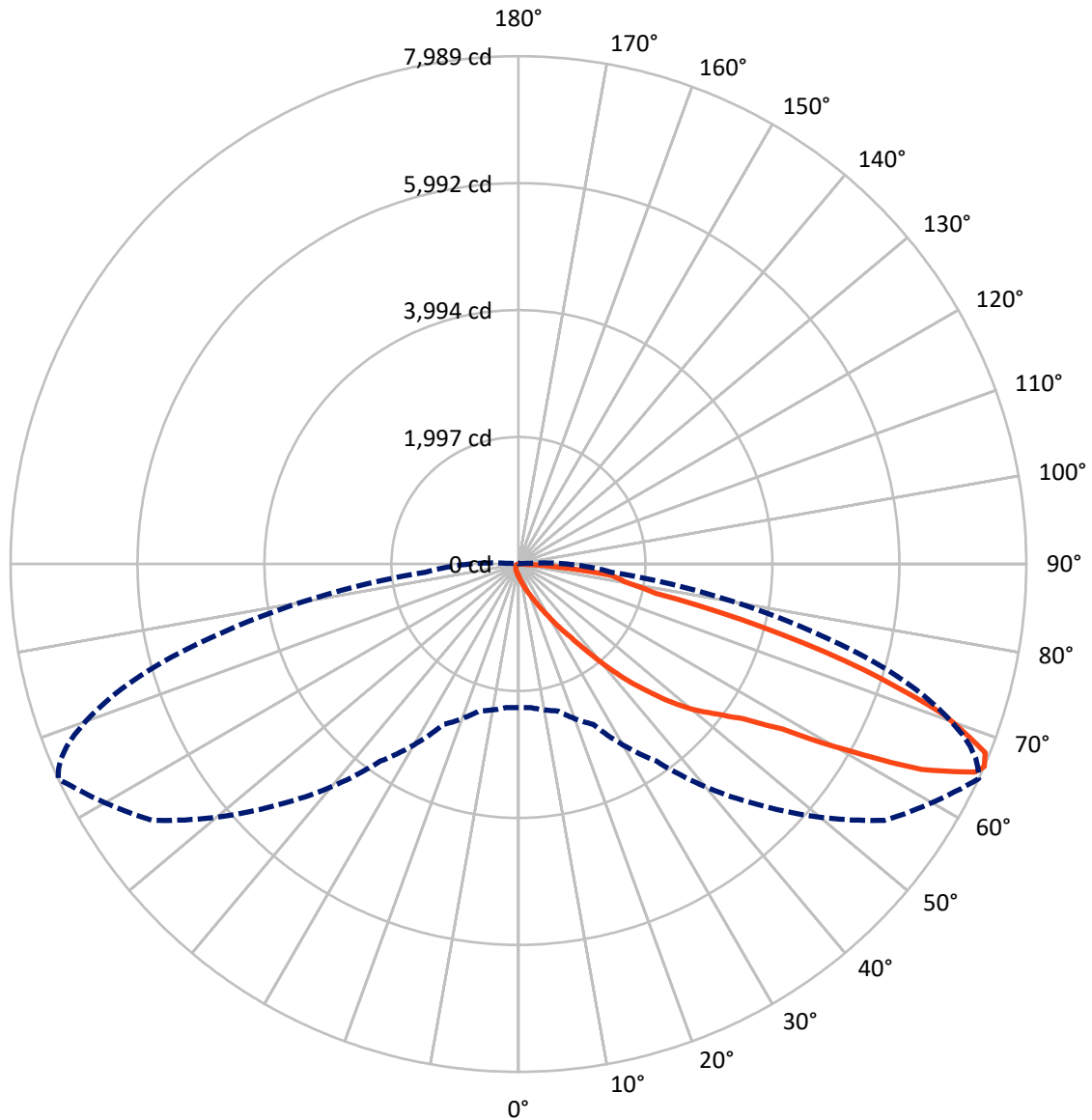


Based on 10 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P180648

CATALOG NUMBER: ICS-E04-LED-E1-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P180648

CATALOG NUMBER: ICS-E04-LED-E1-SL3-HSS

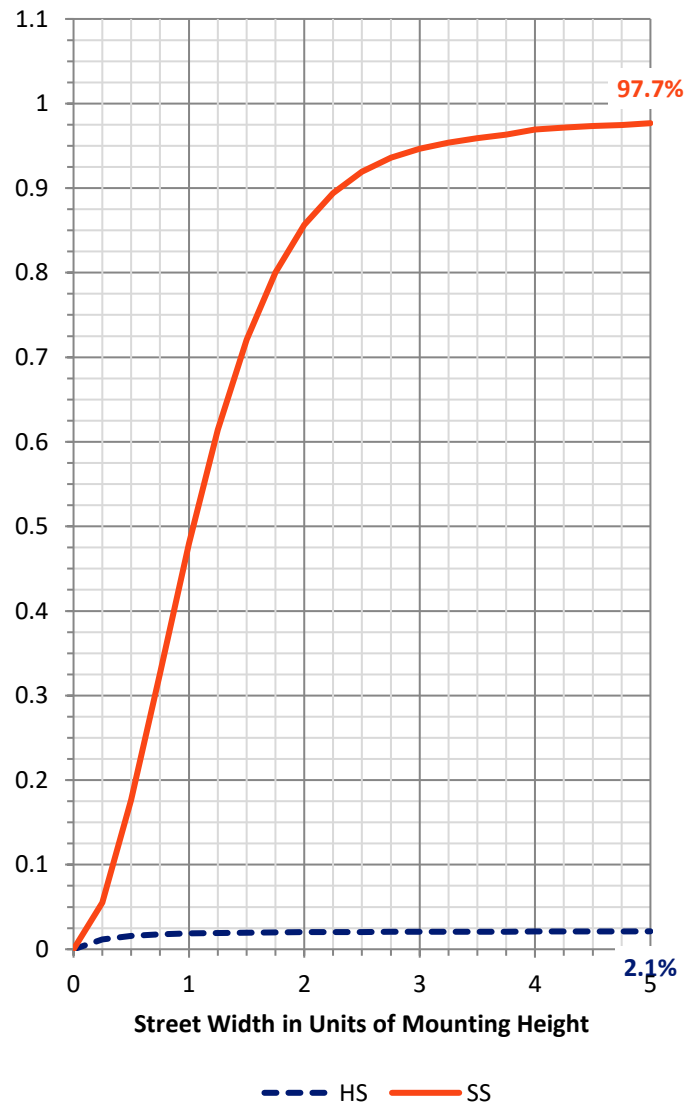
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	135.3	0.0	135.3
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	6106.8	0.0	6106.8
	% Fixture	97.8	0.0	97.8
Total	Lumens	6242.1	0.0	6242.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.1	0.3
10°-20°	89.4	1.4
20°-30°	192.9	3.1
30°-40°	411.9	6.6
40°-50°	911.0	14.6
50°-60°	1543.8	24.7
60°-70°	2060.1	33.0
70°-80°	907.4	14.5
80°-90°	104.5	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°	6242.1	100.0
0°-180°	6242.1	100.0



REPORT NUMBER: P180648

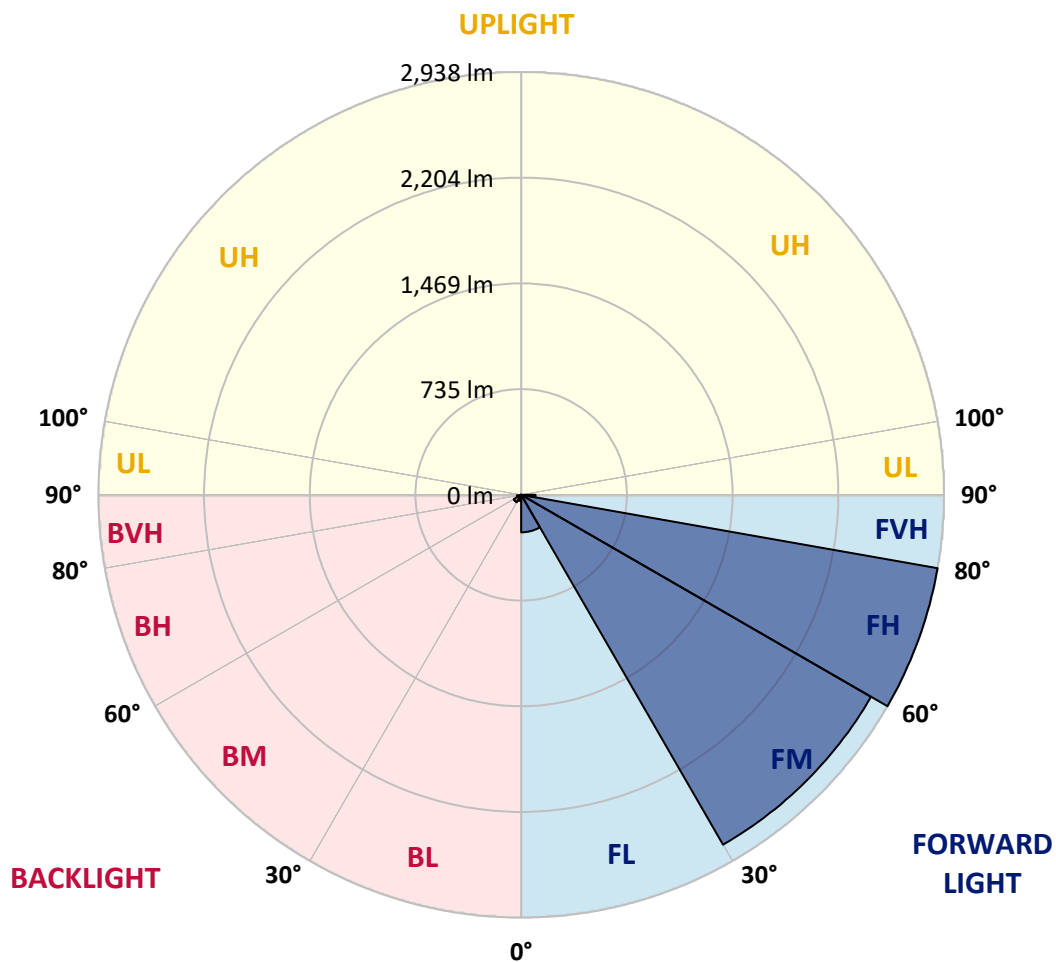
CATALOG NUMBER: ICS-E04-LED-E1-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	260.7	4.2			
FM	(30°-60°)	2807.3	45.0			
FH	(60°-80°)	2938.5	47.1			G2/5000
FVH	(80°-90°)	100.4	1.6			G2/225
BL	(0°-30°)	42.7	0.7	B0/110		
BM	(30°-60°)	59.4	1.0	B0/220		
BH	(60°-80°)	29.0	0.5	B0/110		G0/110
BVH	(80°-90°)	4.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type III Short





REPORT NUMBER: P180648

CATALOG NUMBER: ICS-E04-LED-E1-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	188.4	188.4	188.4	188.4	188.4	188.4	188.4	188.4	188.4	188.4	188.4
2.5°	237.6	236.4	231.6	231.6	224.4	219.6	213.6	207.6	207.6	206.4	205.2
5°	314.4	307.2	306.0	292.8	282.0	266.4	252.0	232.8	230.4	228.0	226.8
7.5°	399.6	398.4	387.6	372.0	350.4	321.6	292.8	261.6	256.8	254.4	249.6
10°	510.0	504.0	489.6	463.2	430.8	392.4	345.6	296.4	290.4	285.6	283.2
12.5°	615.6	604.8	596.4	562.8	522.0	465.6	409.2	338.4	333.6	327.6	318.0
15°	714.0	704.4	690.0	661.2	615.6	544.8	478.8	392.4	380.4	372.0	364.8
17.5°	790.8	784.8	768.0	735.6	686.4	624.0	544.8	447.6	438.0	427.2	414.0
20°	864.0	855.6	829.2	784.8	732.0	684.0	622.8	519.6	506.4	493.2	478.8
22.5°	933.7	925.3	882.0	808.8	752.4	732.0	710.4	601.2	580.8	570.0	555.6
25°	1030.9	1012.9	945.7	829.2	753.6	769.2	806.4	706.8	687.6	672.0	649.2
27.5°	1161.7	1137.7	1032.1	859.2	758.4	810.0	916.8	835.2	814.8	796.8	771.6
30°	1309.3	1293.7	1167.7	931.3	793.2	870.0	1040.5	998.5	974.5	952.9	922.9
32.5°	1458.1	1436.5	1311.7	1068.1	886.8	986.5	1195.3	1188.1	1156.9	1136.5	1104.1
35°	1588.9	1578.1	1485.7	1292.5	1100.5	1190.5	1401.7	1410.1	1382.5	1360.9	1324.9
37.5°	1677.7	1677.7	1659.7	1533.7	1440.1	1507.3	1705.3	1706.5	1678.9	1629.7	1611.7
40°	1723.3	1736.5	1801.3	1825.3	1820.5	1906.9	2103.7	2082.1	2059.3	2034.1	1974.1
42.5°	1816.9	1828.9	1966.9	2132.5	2240.5	2354.5	2490.1	2482.9	2455.3	2409.7	2354.5
45°	1975.3	1990.9	2155.3	2418.1	2640.1	2802.2	2888.6	2855.0	2827.4	2784.2	2755.3
47.5°	2176.9	2206.9	2392.9	2718.1	2985.8	3253.4	3343.4	3254.6	3230.6	3197.0	3150.2
50°	2391.7	2420.5	2618.5	2990.6	3293.0	3612.2	3762.2	3612.2	3577.4	3566.6	3513.8
52.5°	2577.7	2601.7	2792.6	3200.6	3528.2	3902.6	4121.0	3923.0	3897.8	3861.8	3823.4
55°	2688.1	2707.3	2886.2	3301.4	3687.8	4164.2	4467.8	4293.8	4256.6	4242.2	4187.0
57.5°	2725.3	2744.5	2905.4	3314.6	3774.2	4403.0	4889.1	4895.1	4850.7	4799.1	4782.3
60°	2725.3	2746.9	2882.6	3282.2	3858.2	4657.5	5450.7	5951.1	5855.1	5845.5	5784.3
62.5°	2612.5	2632.9	2769.8	3182.6	3971.0	5000.7	6233.1	7116.4	7088.8	7026.4	6925.6
65°	2367.7	2379.7	2514.1	2928.2	3927.8	5316.3	6911.2	7891.6	7847.2	7724.8	7595.2
66°	2257.3	2266.9	2392.9	2783.0	3786.2	5359.5	7031.2	7988.8	7915.6	7812.4	7666.0
67.5°	2097.7	2114.5	2203.3	2512.9	3446.6	5209.5	6955.6	7920.4	7856.8	7732.0	7585.6
70°	1400.5	1388.5	1701.7	1928.5	2625.7	4244.6	6240.3	7111.6	7112.8	7054.0	6995.2
72.5°	664.8	672.0	763.2	1186.9	1718.5	2835.8	4967.1	5676.3	5757.9	5652.3	5579.1
75°	477.6	488.4	543.6	726.0	1024.9	1701.7	3219.8	3969.8	3972.2	3785.0	3618.2
77.5°	139.2	145.2	204.0	447.6	768.0	1148.5	1849.3	2206.9	2155.3	2020.9	1894.9
80°	57.6	57.6	60.0	142.8	308.4	780.0	1293.7	1699.3	1693.3	1641.7	1567.3
82.5°	21.6	22.8	28.8	58.8	73.2	192.0	862.8	1474.9	1471.3	1398.1	1345.3
85°	2.4	2.4	7.2	25.2	27.6	36.0	172.8	650.4	646.8	650.4	570.0
87.5°	0.0	0.0	1.2	2.4	3.6	4.8	7.2	25.2	27.6	26.4	24.0
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: P180648

CATALOG NUMBER: ICS-E04-LED-E1-SL3-HSS

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	188.4	188.4	188.4	188.4	188.4	188.4	188.4	188.4	188.4	188.4	188.4
2.5°	205.2	202.8	202.8	201.6	201.6	201.6	200.4	199.2	199.2	198.0	196.8
5°	224.4	222.0	220.8	218.4	217.2	216.0	213.6	212.4	210.0	208.8	207.6
7.5°	247.2	242.4	241.2	237.6	234.0	231.6	229.2	225.6	223.2	218.4	217.2
10°	276.0	270.0	265.2	260.4	256.8	250.8	247.2	242.4	237.6	234.0	230.4
12.5°	313.2	304.8	297.6	292.8	284.4	277.2	270.0	266.4	256.8	252.0	246.0
15°	354.0	344.4	336.0	326.4	320.4	308.4	298.8	288.0	283.2	274.8	265.2
17.5°	406.8	391.2	378.0	368.4	356.4	344.4	333.6	322.8	308.4	298.8	286.8
20°	463.2	450.0	432.0	415.2	400.8	386.4	370.8	356.4	343.2	327.6	313.2
22.5°	535.2	516.0	494.4	477.6	458.4	442.8	421.2	402.0	380.4	360.0	343.2
25°	626.4	601.2	580.8	556.8	534.0	510.0	483.6	459.6	432.0	412.8	384.0
27.5°	739.2	715.2	687.6	656.4	633.6	597.6	562.8	532.8	500.4	470.4	438.0
30°	883.2	848.4	819.6	789.6	744.0	709.2	668.4	627.6	583.2	553.2	504.0
32.5°	1056.1	1018.9	975.7	932.5	890.4	841.2	790.8	740.4	691.2	636.0	585.6
35°	1267.3	1222.9	1173.7	1126.9	1062.1	1009.3	945.7	876.0	820.8	757.2	693.6
37.5°	1546.9	1473.7	1430.5	1381.3	1293.7	1221.7	1150.9	1081.3	984.1	916.8	826.8
40°	1897.3	1854.1	1783.3	1704.1	1624.9	1530.1	1434.1	1341.7	1228.9	1135.3	1030.9
42.5°	2308.9	2245.3	2173.3	2059.3	1978.9	1867.3	1758.1	1635.7	1497.7	1377.7	1255.3
45°	2695.3	2619.7	2564.5	2450.5	2366.5	2234.5	2102.5	1972.9	1813.3	1658.5	1516.9
47.5°	3113.0	3050.6	2959.4	2867.0	2781.8	2632.9	2490.1	2332.9	2164.9	1981.3	1797.7
50°	3480.2	3431.0	3368.6	3257.0	3162.2	3037.4	2869.4	2697.7	2485.3	2302.9	2094.1
52.5°	3792.2	3753.8	3666.2	3587.0	3501.8	3384.2	3234.2	3069.8	2840.6	2640.1	2402.5
55°	4160.6	4133.0	4056.2	4007.0	3931.4	3818.6	3678.2	3525.8	3283.4	3065.0	2796.2
57.5°	4764.3	4742.7	4675.5	4655.1	4580.6	4482.2	4309.4	4146.2	3863.0	3591.8	3284.6
60°	5763.9	5720.7	5622.3	5571.9	5414.7	5282.7	5058.3	4833.9	4491.8	4146.2	3776.6
62.5°	6834.4	6713.2	6526.0	6365.1	6141.9	5912.7	5612.7	5269.5	4868.7	4458.2	4033.4
65°	7411.6	7205.2	6968.8	6713.2	6423.9	6086.7	5708.7	5297.1	4866.3	4433.0	3984.2
66°	7477.6	7244.8	6994.0	6709.6	6387.9	6029.1	5645.1	5213.1	4765.5	4343.0	3894.2
67.5°	7394.8	7151.2	6886.0	6570.4	6222.3	5850.3	5447.1	4998.3	4567.4	4139.0	3702.2
70°	6815.2	6572.8	6336.3	6003.9	5633.1	5258.7	4877.1	4375.4	3967.4	3573.8	3185.0
72.5°	5442.3	5277.9	5043.9	4759.5	4398.2	3959.0	3641.0	3192.2	2838.2	2456.5	2155.3
75°	3401.0	3169.4	2880.2	2517.7	2241.7	1885.3	1699.3	1358.5	1156.9	980.5	810.0
77.5°	1738.9	1564.9	1362.1	1158.1	962.5	768.0	594.0	420.0	283.2	196.8	146.4
80°	1436.5	1282.9	1114.9	928.9	756.0	586.8	422.4	288.0	183.6	120.0	93.6
82.5°	1186.9	1057.3	907.2	734.4	584.4	460.8	320.4	208.8	129.6	84.0	66.0
85°	505.2	458.4	354.0	280.8	211.2	156.0	109.2	73.2	51.6	42.0	38.4
87.5°	21.6	24.0	22.8	18.0	13.2	13.2	12.0	9.6	9.6	9.6	9.6
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: P180648

CATALOG NUMBER: ICS-E04-LED-E1-SL3-HSS

CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	188.4	188.4	188.4	188.4	188.4	188.4	188.4	188.4	188.4	188.4	188.4
2.5°	196.8	195.6	194.4	194.4	193.2	192.0	184.8	178.8	171.6	166.8	162.0
5°	205.2	204.0	201.6	200.4	198.0	196.8	181.2	168.0	157.2	148.8	142.8
7.5°	213.6	212.4	208.8	205.2	204.0	201.6	176.4	159.6	145.2	135.6	129.6
10°	224.4	220.8	217.2	212.4	208.8	205.2	171.6	150.0	134.4	126.0	120.0
12.5°	240.0	234.0	228.0	222.0	217.2	211.2	169.2	141.6	126.0	116.4	110.4
15°	258.0	249.6	242.4	235.2	226.8	220.8	164.4	134.4	118.8	109.2	102.0
17.5°	274.8	265.2	254.4	243.6	235.2	226.8	159.6	127.2	111.6	102.0	94.8
20°	298.8	284.4	271.2	258.0	246.0	235.2	152.4	120.0	105.6	94.8	87.6
22.5°	325.2	308.4	291.6	273.6	258.0	243.6	146.4	114.0	99.6	88.8	80.4
25°	358.8	338.4	315.6	292.8	274.8	255.6	140.4	108.0	93.6	82.8	74.4
27.5°	405.6	376.8	351.6	322.8	295.2	273.6	135.6	103.2	87.6	76.8	68.4
30°	469.2	427.2	387.6	356.4	324.0	292.8	130.8	97.2	82.8	70.8	61.2
32.5°	540.0	490.8	445.2	398.4	357.6	321.6	126.0	92.4	76.8	64.8	56.4
35°	627.6	565.2	504.0	450.0	400.8	352.8	121.2	87.6	72.0	58.8	50.4
37.5°	753.6	675.6	595.2	525.6	462.0	398.4	117.6	82.8	66.0	52.8	44.4
40°	926.5	825.6	727.2	632.4	549.6	470.4	112.8	78.0	61.2	48.0	39.6
42.5°	1113.7	991.3	861.6	754.8	640.8	541.2	108.0	73.2	56.4	43.2	34.8
45°	1346.5	1194.1	1036.9	891.6	752.4	624.0	103.2	68.4	50.4	38.4	30.0
47.5°	1600.9	1406.5	1228.9	1046.5	880.8	727.2	97.2	64.8	45.6	33.6	26.4
50°	1862.5	1657.3	1432.9	1225.3	1028.5	830.4	91.2	58.8	40.8	30.0	21.6
52.5°	2144.5	1902.1	1672.9	1414.9	1185.7	966.1	85.2	54.0	37.2	26.4	18.0
55°	2503.3	2232.1	1963.3	1674.1	1398.1	1123.3	79.2	48.0	32.4	22.8	14.4
57.5°	2954.6	2632.9	2302.9	1976.5	1641.7	1329.7	74.4	42.0	27.6	19.2	12.0
60°	3380.6	3005.0	2605.3	2229.7	1851.7	1488.1	67.2	37.2	24.0	15.6	12.0
62.5°	3601.4	3173.0	2742.1	2328.1	1924.9	1544.5	60.0	31.2	20.4	13.2	10.8
65°	3547.4	3110.6	2692.9	2275.3	1880.5	1508.5	52.8	27.6	18.0	12.0	10.8
66°	3469.4	3037.4	2617.3	2220.1	1843.3	1470.1	49.2	26.4	16.8	12.0	9.6
67.5°	3299.0	2881.4	2480.5	2110.9	1741.3	1396.9	44.4	24.0	15.6	10.8	9.6
70°	2817.8	2438.5	2118.1	1789.3	1488.1	1177.3	36.0	20.4	13.2	9.6	9.6
72.5°	1864.9	1606.9	1393.3	1198.9	1002.1	777.6	30.0	16.8	10.8	9.6	8.4
75°	703.2	636.0	546.0	490.8	428.4	375.6	24.0	10.8	8.4	8.4	8.4
77.5°	124.8	115.2	102.0	93.6	86.4	79.2	19.2	7.2	7.2	8.4	8.4
80°	84.0	78.0	70.8	64.8	60.0	54.0	13.2	6.0	7.2	7.2	8.4
82.5°	60.0	56.4	52.8	48.0	44.4	39.6	8.4	6.0	7.2	7.2	7.2
85°	36.0	33.6	31.2	28.8	25.2	24.0	6.0	6.0	6.0	7.2	7.2
87.5°	9.6	8.4	9.6	9.6	7.2	8.4	4.8	4.8	4.8	6.0	6.0
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: P180648

CATALOG NUMBER: ICS-E04-LED-E1-SL3-HSS

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	188.4	188.4	188.4	188.4	188.4
2.5°	159.6	159.6	157.2	160.8	160.8
5°	138.0	138.0	136.8	138.0	138.0
7.5°	126.0	124.8	124.8	124.8	126.0
10°	115.2	114.0	114.0	114.0	114.0
12.5°	105.6	104.4	103.2	104.4	104.4
15°	97.2	94.8	94.8	94.8	94.8
17.5°	90.0	87.6	86.4	86.4	86.4
20°	82.8	79.2	79.2	79.2	79.2
22.5°	75.6	72.0	72.0	72.0	72.0
25°	68.4	64.8	64.8	64.8	64.8
27.5°	62.4	58.8	58.8	58.8	58.8
30°	55.2	52.8	52.8	54.0	52.8
32.5°	50.4	46.8	46.8	48.0	48.0
35°	44.4	42.0	42.0	42.0	42.0
37.5°	38.4	36.0	36.0	36.0	36.0
40°	33.6	31.2	30.0	31.2	31.2
42.5°	28.8	26.4	25.2	25.2	25.2
45°	25.2	21.6	20.4	21.6	21.6
47.5°	20.4	18.0	18.0	19.2	19.2
50°	15.6	15.6	16.8	19.2	19.2
52.5°	14.4	14.4	16.8	19.2	19.2
55°	13.2	14.4	16.8	18.0	19.2
57.5°	12.0	14.4	16.8	18.0	18.0
60°	12.0	13.2	15.6	18.0	18.0
62.5°	10.8	12.0	14.4	16.8	16.8
65°	10.8	12.0	14.4	16.8	16.8
66°	10.8	12.0	14.4	16.8	16.8
67.5°	10.8	12.0	14.4	16.8	16.8
70°	10.8	12.0	14.4	15.6	15.6
72.5°	9.6	10.8	13.2	15.6	15.6
75°	9.6	10.8	13.2	15.6	15.6
77.5°	9.6	10.8	13.2	15.6	15.6
80°	9.6	10.8	13.2	14.4	15.6
82.5°	8.4	10.8	12.0	14.4	14.4
85°	8.4	9.6	12.0	13.2	14.4
87.5°	7.2	8.4	9.6	12.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)