

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: P180847

Luminaire Tested: **ICS-E04-LED-E1-SL4-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180847
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
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-SL4-HSS-7030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6691 lumens
Efficiency: N/A
Efficacy: 68.8 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: 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



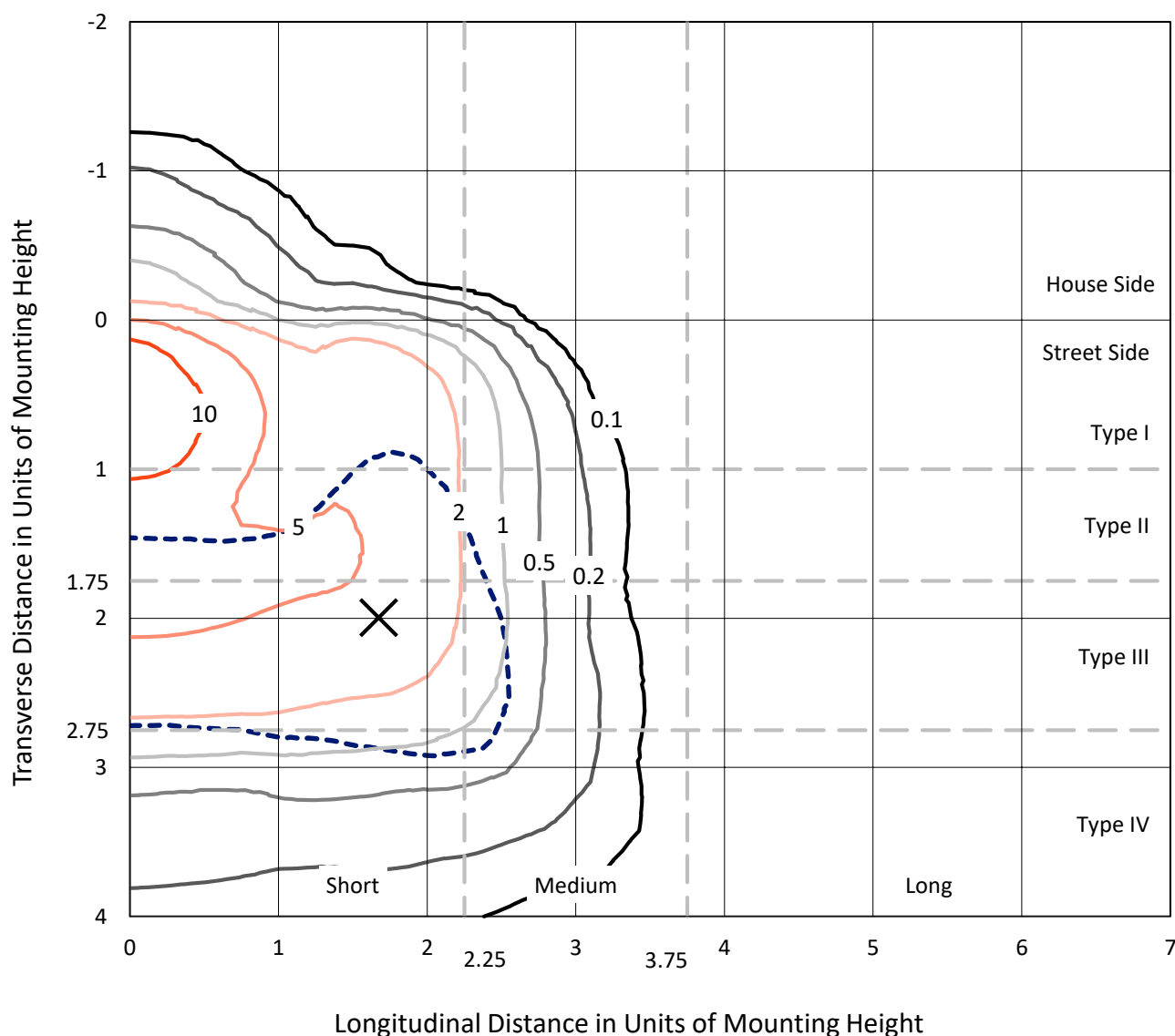
REPORT NUMBER: P180847

CATALOG NUMBER: ICS-E04-LED-E1-SL4-HSS-7030

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

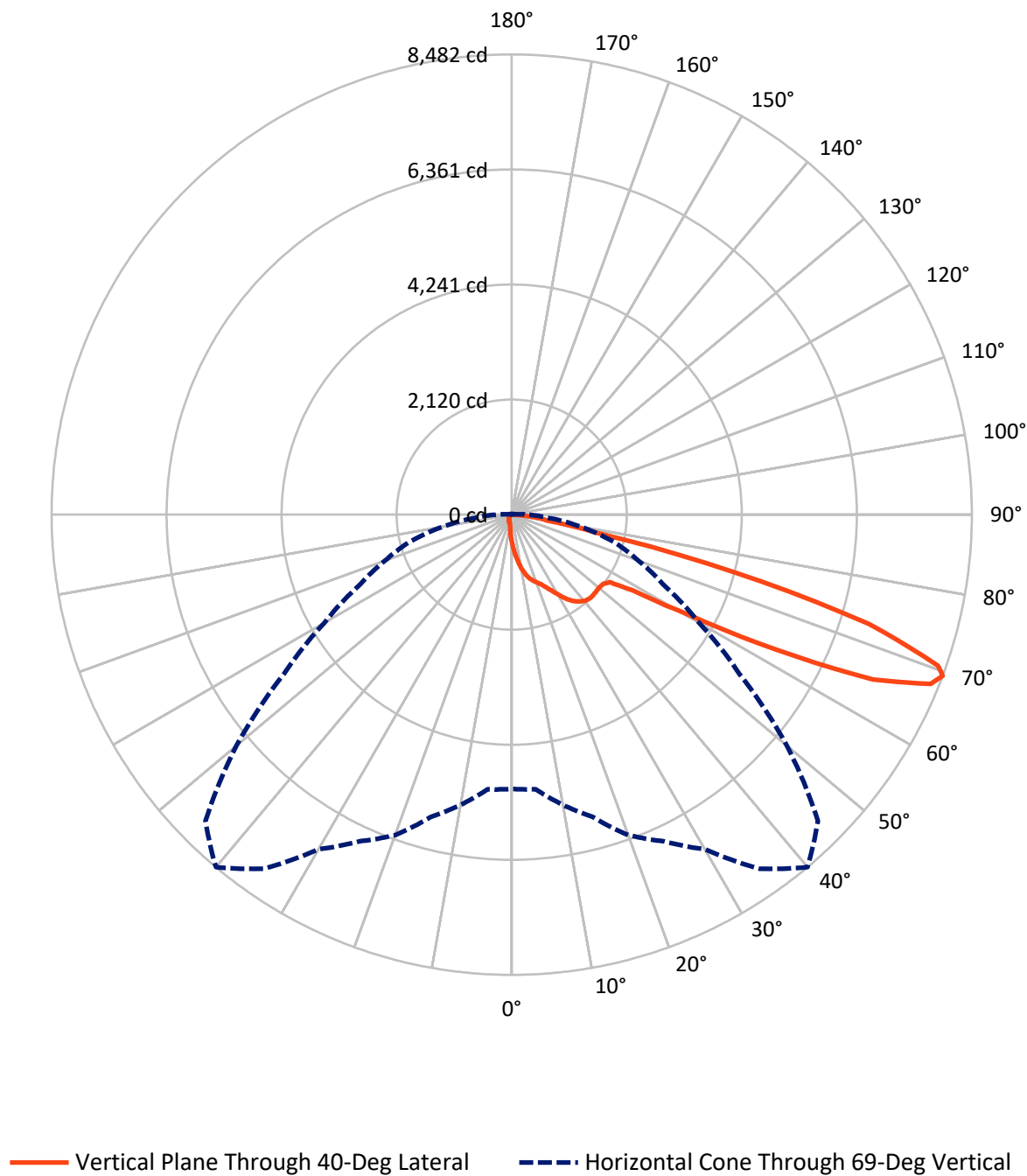


Based on 10 foot mounting height. Maximum calculated value = 15 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P180847

CATALOG NUMBER: ICS-E04-LED-E1-SL4-HSS-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P180847

CATALOG NUMBER: ICS-E04-LED-E1-SL4-HSS-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	199.3	0.0	199.3
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	6491.7	0.0	6491.7
	% Fixture	97.0	0.0	97.0
Total	Lumens	6691.0	0.0	6691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	0.8
10°-20°	179.1	2.7
20°-30°	342.7	5.1
30°-40°	570.0	8.5
40°-50°	771.2	11.5
50°-60°	1206.1	18.0
60°-70°	2479.8	37.1
70°-80°	997.8	14.9
80°-90°	92.3	1.4
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°	6691.0	100.0
0°-180°	6691.0	100.0

Coefficient of Utilization



REPORT NUMBER: P180847

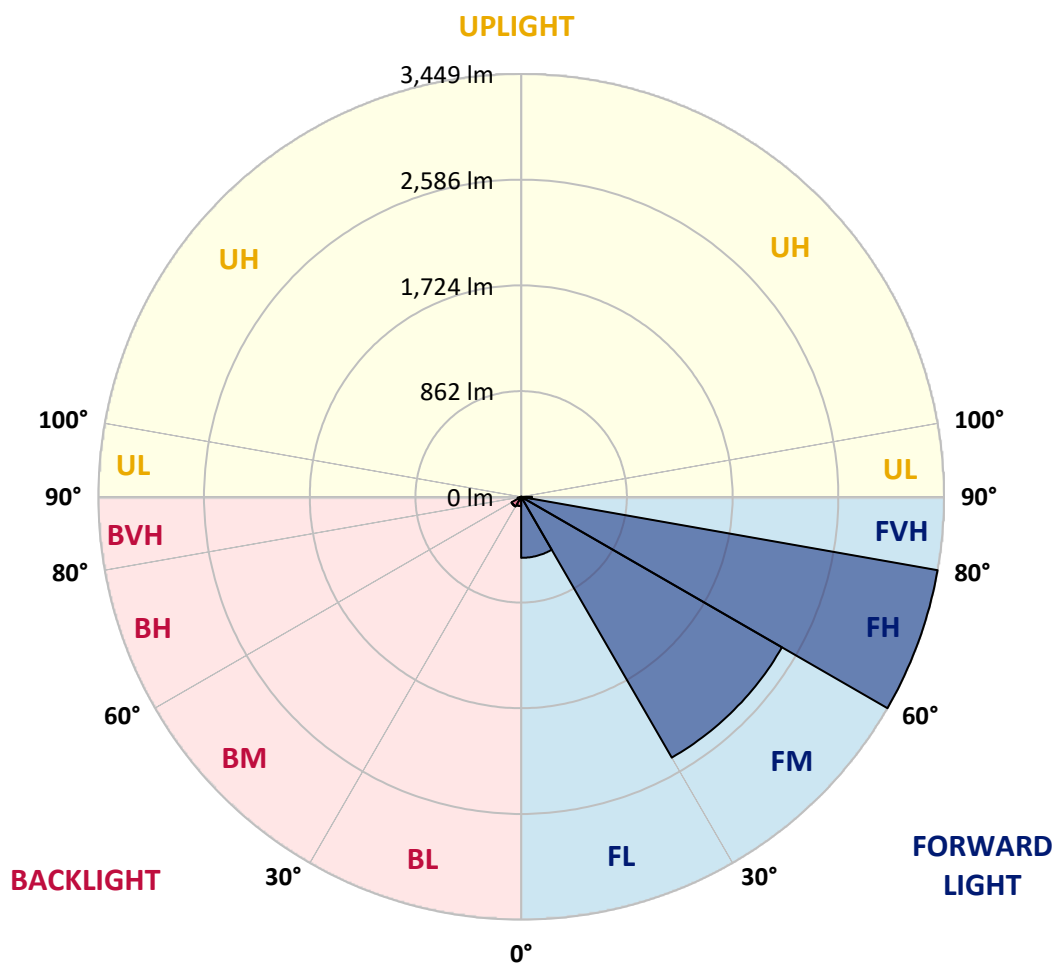
CATALOG NUMBER: ICS-E04-LED-E1-SL4-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	497.9	7.4			
FM	(30°-60°)	2456.3	36.7			
FH	(60°-80°)	3448.5	51.5			G2/5000
FVH	(80°-90°)	88.9	1.3			G1/100
BL	(0°-30°)	75.8	1.1	B0/110		
BM	(30°-60°)	91.0	1.4	B0/220		
BH	(60°-80°)	29.1	0.4	B0/110		G0/110
BVH	(80°-90°)	3.4	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 IV Short



REPORT NUMBER: P180847

CATALOG NUMBER: ICS-E04-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3
2.5°	674.1	666.4	657.6	657.6	646.7	646.7	640.1	622.6	620.4	610.5	600.7
5°	860.4	853.8	842.9	833.0	824.3	808.9	797.9	777.1	754.1	732.2	712.5
7.5°	1042.4	1039.1	1019.4	1016.1	1001.8	976.6	954.7	924.0	884.5	853.8	817.7
10°	1211.2	1203.5	1199.1	1180.5	1159.7	1132.3	1098.3	1061.0	1015.0	966.7	915.2
12.5°	1344.9	1340.5	1320.8	1313.1	1291.2	1263.8	1221.0	1172.8	1126.8	1064.3	1004.0
15°	1444.6	1437.0	1423.8	1411.8	1385.4	1361.3	1321.9	1269.3	1213.4	1145.4	1073.1
17.5°	1527.9	1513.7	1510.4	1491.8	1464.4	1435.9	1392.0	1343.8	1278.0	1210.1	1131.2
20°	1639.7	1620.0	1613.4	1586.0	1554.2	1514.8	1464.4	1404.1	1335.0	1260.5	1179.4
22.5°	1771.3	1757.0	1742.8	1718.7	1678.1	1622.2	1548.8	1483.0	1395.3	1313.1	1225.4
25°	1957.6	1945.5	1922.5	1889.6	1839.2	1772.4	1683.6	1587.1	1484.1	1378.9	1275.8
27.5°	2138.5	2127.5	2111.1	2085.8	2028.8	1955.4	1845.8	1723.0	1592.6	1465.5	1351.5
30°	2308.3	2298.5	2282.0	2256.8	2206.4	2134.1	2010.2	1878.7	1716.5	1568.5	1431.5
32.5°	2491.4	2488.1	2469.5	2433.3	2389.5	2291.9	2157.1	2015.7	1851.3	1680.3	1520.3
35°	2698.5	2673.3	2655.8	2619.6	2545.1	2441.0	2283.1	2128.6	1955.4	1780.0	1601.4
37.5°	2873.9	2849.8	2827.9	2781.9	2690.9	2558.3	2379.6	2209.7	2031.0	1852.4	1670.4
40°	3002.2	2990.1	2963.8	2903.5	2801.6	2643.7	2450.8	2265.6	2085.8	1906.1	1726.3
42.5°	3097.5	3078.9	3049.3	2986.8	2866.2	2686.5	2479.3	2288.6	2111.1	1939.0	1762.5
45°	3132.6	3117.3	3089.8	3021.9	2891.5	2698.5	2478.2	2282.0	2112.1	1948.8	1786.6
47.5°	3111.8	3096.4	3072.3	3008.7	2880.5	2684.3	2458.5	2263.4	2101.2	1952.1	1808.5
50°	3042.7	3033.9	3015.3	2961.6	2846.5	2656.9	2441.0	2253.5	2099.0	1968.6	1839.2
52.5°	3036.1	3030.7	3007.6	2953.9	2836.7	2648.1	2438.8	2259.0	2117.6	1989.4	1861.1
55°	3710.2	3632.4	3458.1	3310.2	3066.8	2777.5	2549.5	2347.8	2196.5	2071.6	1981.7
57.5°	5273.2	5157.1	4928.0	4646.3	4087.3	3538.1	3098.6	2780.8	2624.0	2567.0	2601.0
60°	6005.4	5984.6	5948.4	5814.7	5528.6	5056.2	4530.1	3961.2	3733.2	3713.5	3782.6
62.5°	6352.9	6339.7	6350.7	6334.2	6245.5	6107.4	5956.1	5710.6	5484.8	5339.0	5029.9
65°	6512.9	6521.7	6584.2	6633.5	6644.4	6680.6	6791.3	7097.1	7320.7	6944.8	6086.5
67.5°	6106.3	6157.8	6301.4	6481.1	6691.6	6895.4	7224.3	7868.8	8328.0	7886.3	6667.5
69°	5055.1	5080.3	5431.1	5769.8	6283.8	6643.3	7120.1	7965.2	8481.5	7982.8	6621.4
70°	3979.9	4002.9	4378.8	4839.2	5708.4	6170.9	6794.6	7801.9	8337.9	7854.5	6384.7
72.5°	1795.4	1762.5	1895.1	2141.7	3086.6	3820.9	4911.5	6321.1	6879.0	6292.6	4776.7
75°	1253.9	1239.7	1253.9	1255.0	1401.9	1808.5	2282.0	3426.3	4237.4	3656.5	2282.0
77.5°	971.1	961.3	951.4	940.4	958.0	1073.1	1119.1	1215.6	1578.4	1492.9	870.3
80°	768.4	759.6	783.7	776.0	776.0	789.2	780.4	744.2	676.3	627.0	561.2
82.5°	357.3	359.5	359.5	390.2	470.2	549.1	574.3	538.2	477.9	406.6	327.7
85°	34.0	38.4	64.7	99.7	198.4	223.6	224.7	186.3	186.3	146.9	118.4
87.5°	0.0	1.1	1.1	1.1	9.9	27.4	23.0	6.6	3.3	3.3	5.5
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: P180847

CATALOG NUMBER: ICS-E04-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3
2.5°	583.1	579.8	566.7	553.5	541.5	528.3	516.3	504.2	491.0	481.2	469.1
5°	681.8	657.6	630.2	603.9	577.6	550.2	521.7	496.5	470.2	446.1	423.1
7.5°	781.5	734.4	697.1	650.0	607.2	564.5	525.0	484.5	447.2	412.1	379.2
10°	865.9	808.9	750.8	690.5	629.1	572.2	517.3	469.1	419.8	377.1	336.5
12.5°	935.0	862.6	791.4	715.7	646.7	574.3	506.4	448.3	390.2	342.0	300.3
15°	997.4	914.1	828.6	741.0	653.3	571.1	495.4	423.1	363.9	309.1	262.0
17.5°	1047.9	952.5	856.0	757.4	663.1	566.7	481.2	405.5	336.5	279.5	233.5
20°	1091.7	992.0	887.8	777.1	669.7	565.6	469.1	383.6	312.4	252.1	207.2
22.5°	1132.3	1032.5	920.7	802.3	679.6	564.5	458.2	367.2	291.6	231.3	186.3
25°	1178.3	1073.1	955.8	828.6	697.1	568.9	451.6	354.0	272.9	211.5	169.9
27.5°	1229.8	1119.1	997.4	861.5	720.1	577.6	449.4	339.8	256.5	192.9	156.7
30°	1302.1	1173.9	1039.1	894.4	741.0	587.5	447.2	331.0	240.0	178.7	143.6
32.5°	1365.7	1227.6	1085.1	928.4	764.0	597.4	446.1	319.0	224.7	164.4	133.7
35°	1432.6	1276.9	1124.6	961.3	783.7	608.3	445.0	310.2	210.4	150.2	123.9
37.5°	1490.7	1318.6	1155.3	989.8	805.6	618.2	446.1	302.5	197.3	138.1	115.1
40°	1540.0	1361.3	1189.2	1016.1	828.6	633.5	447.2	294.8	184.1	127.1	107.4
42.5°	1583.8	1401.9	1225.4	1045.7	854.9	651.1	453.8	288.3	173.2	117.3	99.7
45°	1617.8	1439.2	1264.9	1087.3	897.7	679.6	465.8	283.9	162.2	108.5	93.2
47.5°	1652.9	1494.0	1331.7	1153.1	960.2	724.5	486.7	282.8	153.5	101.9	87.7
50°	1701.1	1548.8	1390.9	1219.9	1017.2	770.5	511.9	283.9	142.5	95.4	82.2
52.5°	1736.2	1604.7	1467.7	1336.1	1153.1	910.8	609.4	303.6	137.0	89.9	75.6
55°	1943.3	1920.3	1923.6	1945.5	1804.1	1549.9	1019.4	438.4	161.1	101.9	74.5
57.5°	2740.2	2821.3	2868.4	2867.3	2633.9	2184.5	1369.0	563.4	179.8	118.4	88.8
60°	3788.1	3726.7	3640.1	3426.3	3116.2	2493.6	1531.2	606.1	155.6	94.3	81.1
62.5°	4714.2	4354.7	4035.8	3689.4	3282.8	2601.0	1564.1	602.8	135.9	71.2	57.0
65°	5291.9	4645.2	4130.0	3696.0	3217.0	2511.1	1479.7	553.5	115.1	58.1	47.1
67.5°	5430.0	4488.4	3759.6	3206.0	2687.6	1954.3	1086.2	416.5	89.9	48.2	41.7
69°	5128.6	3989.7	3115.1	2487.0	1955.4	1296.7	671.9	263.1	69.1	43.8	38.4
70°	4717.5	3470.2	2537.4	1996.0	1447.9	910.8	470.2	185.2	55.9	40.6	35.1
72.5°	3035.0	1822.8	1247.3	868.1	597.4	362.8	184.1	83.3	42.7	34.0	28.5
75°	1177.2	674.1	488.9	371.6	290.5	201.7	111.8	53.7	36.2	28.5	21.9
77.5°	579.8	443.9	362.8	248.8	144.7	89.9	60.3	41.7	29.6	20.8	14.2
80°	458.2	304.7	181.9	112.9	85.5	64.7	46.0	34.0	21.9	13.2	9.9
82.5°	234.6	128.2	94.3	76.7	63.6	50.4	37.3	24.1	14.2	8.8	7.7
85°	73.4	53.7	48.2	47.1	43.8	36.2	26.3	15.3	8.8	5.5	5.5
87.5°	5.5	7.7	9.9	7.7	8.8	7.7	9.9	6.6	4.4	4.4	3.3
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: P180847

CATALOG NUMBER: ICS-E04-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3
2.5°	460.4	447.2	435.1	427.5	413.2	407.7	402.3	400.1	390.2	392.4	383.6
5°	402.3	379.2	361.7	344.2	327.7	315.7	305.8	293.7	283.9	279.5	270.7
7.5°	349.6	320.1	297.0	278.4	258.7	243.3	230.2	221.4	212.6	203.9	199.5
10°	303.6	271.8	245.5	226.9	208.3	195.1	185.2	178.7	173.2	169.9	168.8
12.5°	260.9	230.2	206.1	189.6	175.4	168.8	164.4	161.1	160.0	158.9	158.9
15°	228.0	197.3	178.7	166.6	160.0	156.7	155.6	153.5	151.3	150.2	150.2
17.5°	197.3	174.3	161.1	154.5	151.3	149.1	146.9	144.7	142.5	141.4	141.4
20°	176.5	157.8	151.3	146.9	143.6	141.4	138.1	135.9	134.8	133.7	132.6
22.5°	160.0	148.0	143.6	140.3	135.9	132.6	130.4	128.2	126.0	125.0	123.9
25°	148.0	140.3	137.0	132.6	128.2	125.0	121.7	118.4	116.2	115.1	112.9
27.5°	139.2	133.7	129.3	123.9	119.5	116.2	112.9	109.6	107.4	105.2	104.1
30°	131.5	126.0	120.6	116.2	110.7	107.4	103.0	99.7	98.6	96.5	94.3
32.5°	123.9	118.4	112.9	107.4	101.9	97.6	95.4	91.0	88.8	87.7	85.5
35°	115.1	109.6	103.0	98.6	93.2	88.8	85.5	82.2	80.0	77.8	76.7
37.5°	107.4	100.8	94.3	88.8	84.4	80.0	76.7	73.4	71.2	69.1	68.0
40°	98.6	92.1	85.5	80.0	75.6	72.3	69.1	65.8	63.6	62.5	62.5
42.5°	91.0	83.3	76.7	72.3	69.1	64.7	61.4	58.1	57.0	55.9	57.0
45°	83.3	75.6	70.1	65.8	62.5	58.1	54.8	52.6	51.5	52.6	53.7
47.5°	76.7	69.1	63.6	60.3	57.0	53.7	50.4	48.2	48.2	50.4	52.6
50°	70.1	62.5	58.1	55.9	52.6	49.3	44.9	43.8	44.9	47.1	49.3
52.5°	63.6	54.8	51.5	50.4	47.1	43.8	40.6	39.5	40.6	42.7	41.7
55°	57.0	48.2	47.1	46.0	42.7	38.4	35.1	35.1	35.1	34.0	31.8
57.5°	54.8	42.7	41.7	40.6	37.3	32.9	30.7	28.5	27.4	24.1	23.0
60°	57.0	38.4	38.4	36.2	32.9	28.5	25.2	21.9	19.7	17.5	17.5
62.5°	46.0	35.1	34.0	31.8	27.4	23.0	19.7	16.4	15.3	14.2	14.2
65°	37.3	31.8	29.6	26.3	23.0	18.6	15.3	13.2	12.1	12.1	13.2
67.5°	34.0	28.5	25.2	21.9	18.6	14.2	12.1	11.0	11.0	12.1	12.1
69°	31.8	26.3	23.0	19.7	16.4	13.2	11.0	11.0	11.0	11.0	12.1
70°	29.6	25.2	21.9	18.6	14.2	11.0	9.9	9.9	11.0	11.0	12.1
72.5°	23.0	19.7	18.6	15.3	11.0	9.9	8.8	9.9	9.9	11.0	11.0
75°	17.5	14.2	14.2	12.1	8.8	7.7	7.7	8.8	8.8	9.9	9.9
77.5°	12.1	9.9	9.9	8.8	7.7	6.6	6.6	7.7	8.8	8.8	9.9
80°	8.8	7.7	6.6	7.7	6.6	5.5	6.6	7.7	7.7	8.8	8.8
82.5°	6.6	6.6	6.6	6.6	5.5	5.5	6.6	6.6	7.7	8.8	8.8
85°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	6.6	6.6	7.7	7.7
87.5°	3.3	3.3	3.3	4.4	4.4	5.5	5.5	5.5	5.5	6.6	6.6
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: P180847

CATALOG NUMBER: ICS-E04-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	505.3	505.3	505.3	505.3
2.5°	381.4	380.3	376.0	377.1
5°	267.4	260.9	265.3	264.2
7.5°	196.2	195.1	194.0	196.2
10°	167.7	167.7	166.6	167.7
12.5°	157.8	157.8	157.8	157.8
15°	150.2	150.2	149.1	149.1
17.5°	141.4	141.4	141.4	140.3
20°	132.6	131.5	131.5	131.5
22.5°	122.8	121.7	121.7	121.7
25°	112.9	111.8	111.8	111.8
27.5°	103.0	101.9	100.8	100.8
30°	93.2	92.1	91.0	91.0
32.5°	83.3	82.2	81.1	81.1
35°	74.5	74.5	73.4	72.3
37.5°	66.9	66.9	66.9	66.9
40°	61.4	62.5	62.5	62.5
42.5°	58.1	59.2	60.3	61.4
45°	55.9	58.1	59.2	59.2
47.5°	54.8	55.9	57.0	57.0
50°	50.4	49.3	49.3	49.3
52.5°	40.6	38.4	37.3	36.2
55°	29.6	28.5	26.3	26.3
57.5°	20.8	20.8	19.7	19.7
60°	16.4	16.4	15.3	16.4
62.5°	14.2	14.2	14.2	14.2
65°	13.2	13.2	13.2	13.2
67.5°	13.2	13.2	13.2	13.2
69°	12.1	12.1	12.1	12.1
70°	12.1	12.1	12.1	12.1
72.5°	11.0	11.0	11.0	11.0
75°	9.9	11.0	11.0	11.0
77.5°	9.9	9.9	9.9	9.9
80°	8.8	8.8	9.9	9.9
82.5°	8.8	8.8	8.8	8.8
85°	7.7	7.7	8.8	8.8
87.5°	6.6	6.6	7.7	7.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)