

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: P180728

Luminaire Tested: **ICS-E02-LED-E1-SL3**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180728  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33679)  
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-SL3  
Description: ICON SITE SMALL LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (42) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

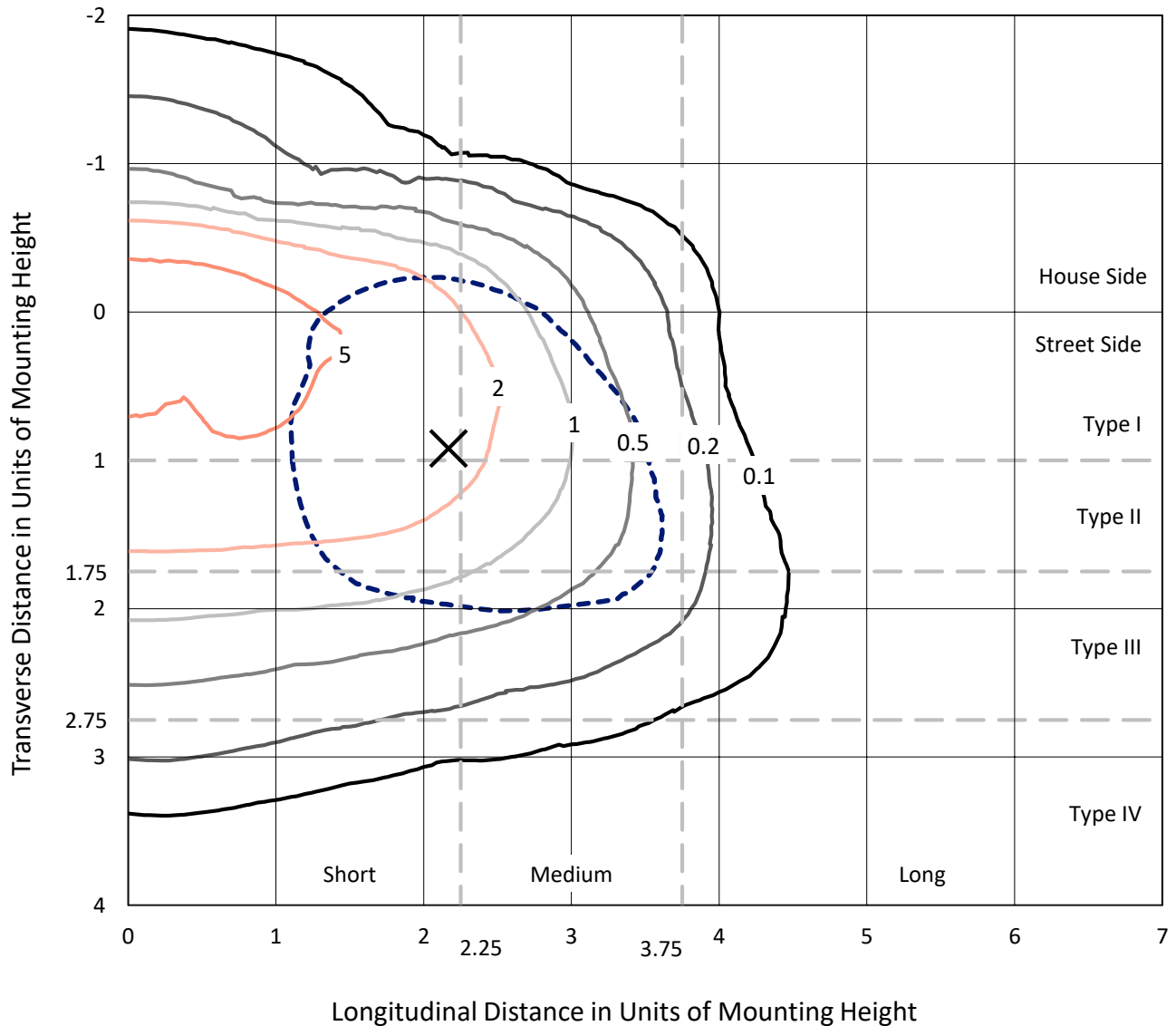
Lumens per Lamp: N/A  
Luminaire Lumens: 5465.3 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 52.1  
Input Voltage (V): 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



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### Iso-Footcandle Lines of Horizontal Illumination

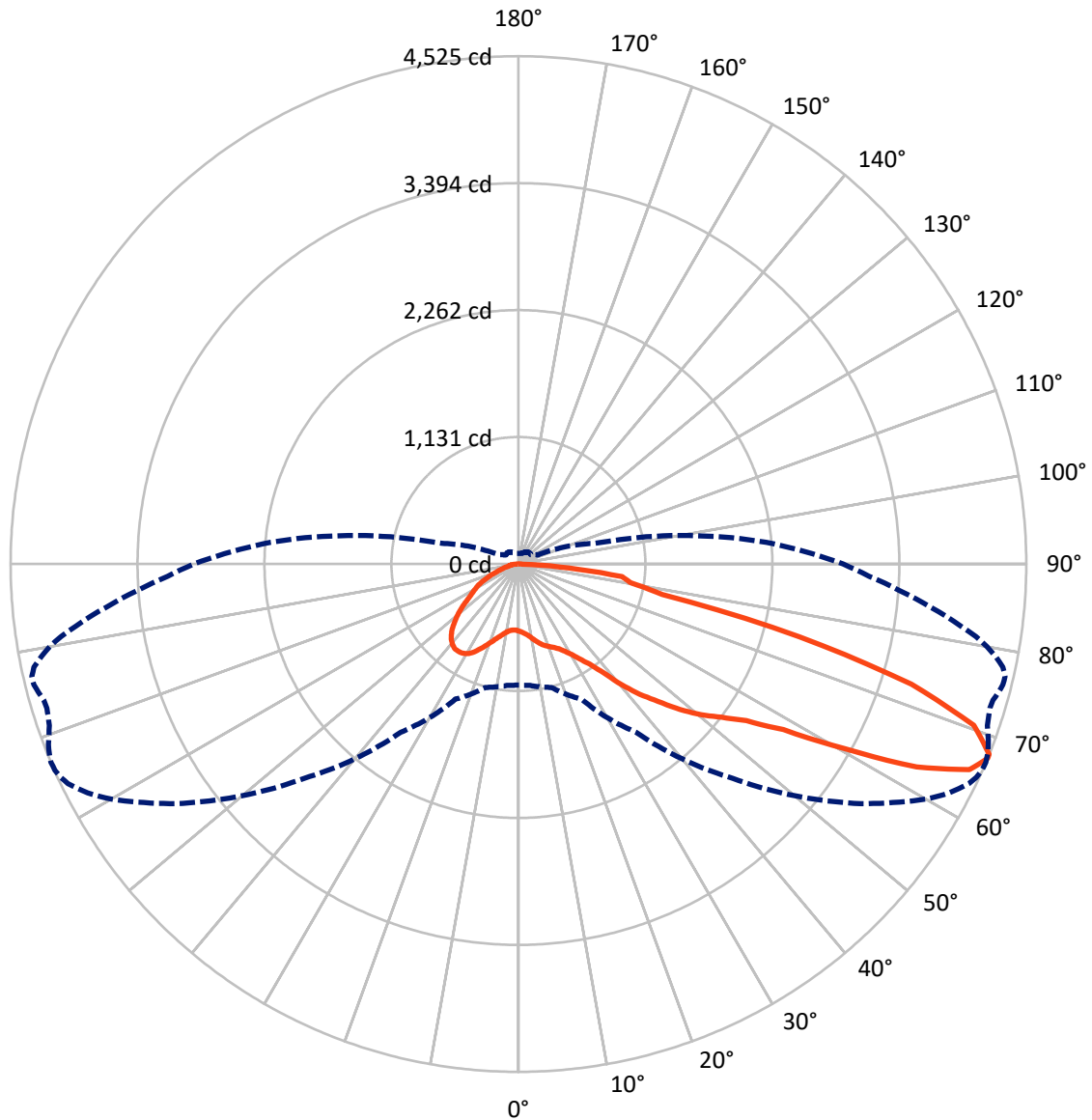
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 fc  
 Type III - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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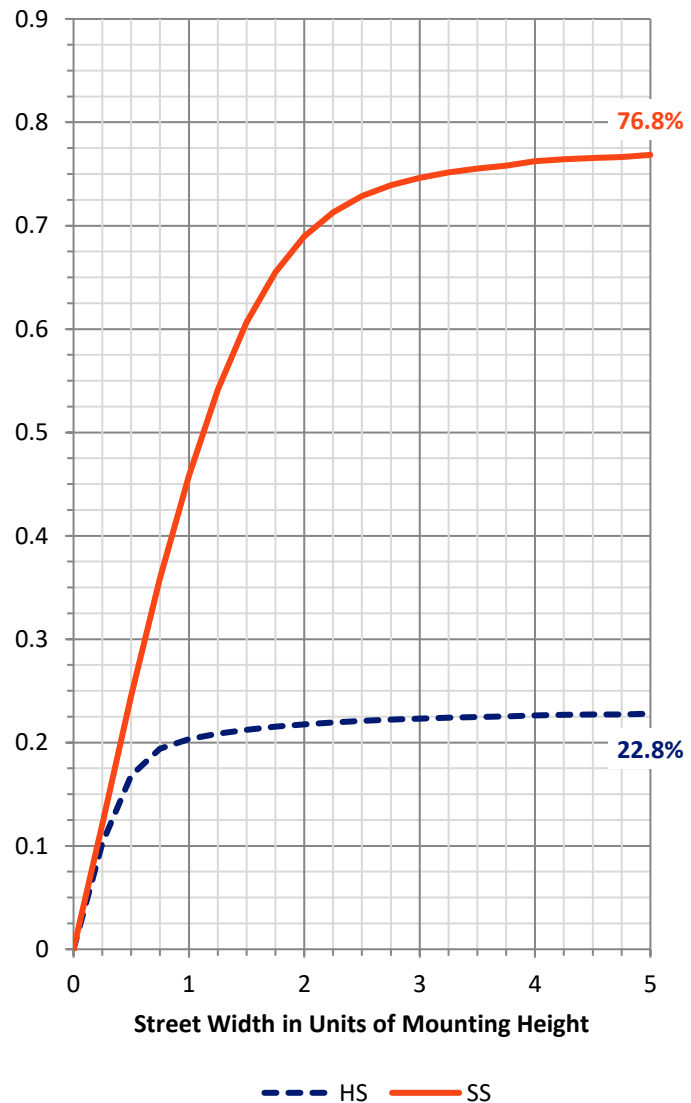
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1261.2	0.0	1261.2
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	4204.2	0.0	4204.2
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	5465.3	0.0	5465.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.4	1.1
10°-20°	203.8	3.7
20°-30°	359.9	6.6
30°-40°	516.6	9.5
40°-50°	784.6	14.4
50°-60°	1155.2	21.1
60°-70°	1535.2	28.1
70°-80°	751.0	13.7
80°-90°	99.7	1.8
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°	5465.3	100.0
0°-180°	5465.3	100.0



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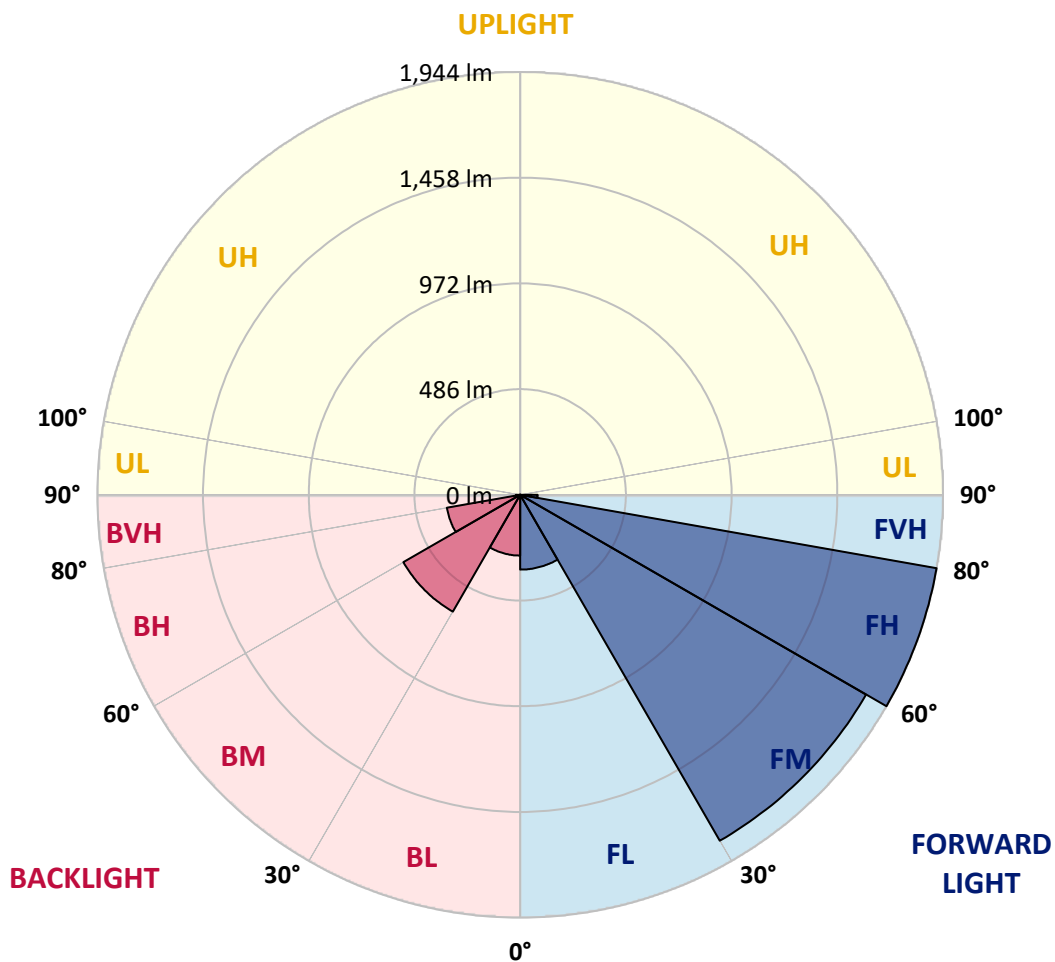
CATALOG NUMBER: ICS-E02-LED-E1-SL3

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	343.8	6.3			
FM	(30°-60°)	1836.3	33.6			
FH	(60°-80°)	1944.0	35.6			G2/5000
FVH	(80°-90°)	80.1	1.5			G1/100
BL	(0°-30°)	279.3	5.1	B1/500		
BM	(30°-60°)	620.1	11.3	B1/1000		
BH	(60°-80°)	342.2	6.3	B1/500		G1/500
BVH	(80°-90°)	19.6	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0
2.5°	625.2	625.8	624.6	624.0	620.4	616.8	614.4	611.4	611.4	611.4	610.2
5°	660.6	658.2	660.0	655.8	648.6	642.0	635.4	630.0	628.8	628.8	626.4
7.5°	703.2	700.2	699.0	693.0	682.2	672.6	659.4	654.0	651.0	649.8	648.6
10°	754.8	754.8	747.0	736.8	722.4	705.6	691.2	681.6	681.0	681.0	675.6
12.5°	807.6	808.8	798.6	788.4	765.0	742.8	726.0	715.2	714.6	712.2	709.2
15°	856.2	853.2	846.6	831.6	805.8	779.4	758.4	747.6	745.2	742.8	741.0
17.5°	896.4	893.4	885.0	865.8	838.8	807.6	781.8	770.4	769.2	768.0	765.6
20°	921.7	919.2	907.2	885.0	856.8	825.0	797.4	789.6	787.2	787.2	786.0
22.5°	936.1	932.5	915.0	885.6	858.0	834.6	811.8	807.0	805.2	805.8	805.8
25°	943.3	940.3	915.6	873.6	847.2	840.6	831.0	828.0	828.6	829.2	830.4
27.5°	944.5	940.3	911.4	858.0	833.4	852.0	858.6	863.4	863.4	865.8	870.0
30°	935.5	930.7	903.0	846.0	827.4	874.8	901.2	913.8	918.6	917.4	927.1
32.5°	919.9	916.8	894.6	846.0	844.2	919.9	966.7	984.7	987.1	988.3	999.1
35°	914.4	913.8	904.2	874.8	896.4	999.1	1070.5	1084.3	1087.3	1087.3	1095.1
37.5°	913.2	916.2	927.1	928.9	988.3	1116.7	1210.3	1231.3	1231.3	1237.3	1237.3
40°	913.2	919.9	960.7	1009.3	1100.5	1269.7	1399.3	1423.3	1423.3	1429.9	1426.3
42.5°	948.7	958.3	1025.5	1117.9	1242.1	1427.5	1576.3	1603.3	1605.1	1603.3	1608.7
45°	1018.3	1026.7	1108.3	1240.9	1387.9	1596.7	1745.5	1777.9	1771.3	1775.5	1777.3
47.5°	1110.7	1123.9	1216.9	1375.3	1530.1	1753.3	1935.1	1964.5	1962.1	1963.9	1956.1
50°	1209.1	1222.9	1326.7	1508.5	1671.7	1879.3	2087.5	2131.3	2127.1	2130.1	2134.3
52.5°	1296.1	1304.5	1404.7	1608.7	1779.1	1996.9	2204.5	2259.1	2268.7	2269.9	2272.9
55°	1347.7	1357.9	1449.7	1658.5	1857.1	2112.1	2338.3	2421.1	2439.7	2444.5	2457.7
57.5°	1365.7	1376.5	1459.9	1665.7	1899.7	2220.1	2524.9	2670.7	2686.3	2712.1	2754.1
60°	1365.1	1376.5	1449.1	1649.5	1942.9	2353.9	2815.4	3059.6	3138.8	3165.2	3225.2
62.5°	1309.3	1322.5	1396.3	1600.3	1998.1	2524.9	3247.4	3623.0	3725.0	3773.0	3837.8
65°	1186.9	1196.5	1265.5	1475.5	1982.5	2693.5	3608.6	4077.2	4170.2	4240.4	4356.2
67°	1078.3	1084.3	1138.3	1327.9	1830.1	2699.5	3722.6	4190.0	4271.0	4345.4	4464.8
67.5°	1050.7	1063.3	1105.3	1282.9	1773.1	2665.3	3714.8	4172.6	4255.4	4332.8	4458.8
70°	855.0	873.0	894.0	1013.5	1393.9	2242.3	3439.4	3871.4	3944.0	4016.0	4191.8
72.5°	527.4	559.8	564.0	639.6	907.2	1549.9	2783.0	3264.8	3319.4	3371.0	3551.0
75°	310.8	315.6	330.6	391.8	532.2	926.5	1867.3	2425.3	2475.7	2500.9	2641.9
77.5°	173.4	178.2	190.8	243.6	409.2	624.0	1087.3	1425.1	1455.7	1487.5	1464.7
80°	72.0	78.6	84.6	98.4	191.4	492.6	747.6	906.0	925.9	944.5	967.9
82.5°	34.8	37.2	45.6	52.2	69.6	202.2	586.2	785.4	808.8	835.8	890.4
85°	16.2	18.0	25.2	30.0	33.6	51.0	196.2	382.2	414.6	420.6	431.4
87.5°	1.2	1.2	3.0	4.2	6.0	6.6	20.4	28.8	32.4	29.4	37.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0
2.5°	609.6	609.0	607.8	607.8	607.2	607.2	607.2	606.0	606.0	606.0	605.4
5°	625.8	625.2	623.4	623.4	622.2	622.2	620.4	619.8	618.6	618.6	618.0
7.5°	646.8	646.2	643.8	643.8	642.0	641.4	640.2	638.4	638.4	637.2	636.0
10°	675.6	673.8	673.2	670.2	670.8	669.6	668.4	666.6	665.4	664.2	663.0
12.5°	708.0	708.0	705.0	703.2	704.4	703.2	700.8	700.2	698.4	698.4	696.6
15°	738.6	738.6	737.4	735.0	735.6	733.8	733.2	732.0	729.6	730.2	729.6
17.5°	765.0	765.0	763.2	762.0	762.0	760.2	760.8	759.6	758.4	757.8	756.0
20°	786.0	786.0	784.8	783.6	784.2	784.2	782.4	782.4	782.4	781.2	781.2
22.5°	806.4	807.0	807.0	807.0	807.6	808.2	807.6	808.8	808.2	809.4	809.4
25°	833.4	835.2	836.4	836.4	839.4	840.0	840.6	842.4	842.4	844.2	844.8
27.5°	873.6	874.8	879.6	880.8	881.4	886.2	886.8	889.2	891.6	892.2	892.8
30°	928.9	931.9	935.5	937.9	937.9	943.9	946.3	945.1	951.7	953.5	955.9
32.5°	1002.7	1005.1	1008.7	1011.1	1013.5	1016.5	1017.1	1020.1	1025.5	1030.3	1027.3
35°	1095.7	1101.7	1095.7	1102.3	1104.1	1108.3	1107.1	1110.7	1113.1	1114.9	1114.3
37.5°	1230.7	1227.7	1226.5	1224.1	1219.9	1234.3	1227.1	1226.5	1222.9	1233.1	1226.5
40°	1408.3	1410.1	1411.9	1402.3	1396.9	1396.9	1395.1	1388.5	1385.5	1394.5	1393.3
42.5°	1593.7	1595.5	1587.1	1581.1	1567.3	1565.5	1557.1	1555.3	1552.3	1557.1	1552.3
45°	1762.3	1763.5	1744.9	1747.9	1737.1	1738.9	1725.7	1731.1	1723.9	1728.7	1737.7
47.5°	1950.7	1953.1	1936.9	1943.5	1932.7	1926.1	1925.5	1929.1	1921.3	1926.1	1928.5
50°	2121.7	2118.7	2110.3	2112.1	2107.3	2108.5	2101.3	2107.9	2098.9	2108.5	2107.3
52.5°	2273.5	2269.9	2268.1	2274.1	2269.9	2269.9	2265.7	2268.7	2269.9	2284.3	2287.3
55°	2457.7	2460.7	2463.7	2474.5	2479.3	2471.5	2479.3	2494.3	2494.9	2529.1	2547.7
57.5°	2753.5	2774.6	2785.4	2792.0	2820.2	2817.2	2835.2	2871.2	2874.8	2954.0	3000.2
60°	3269.6	3306.8	3342.2	3323.0	3380.0	3397.4	3408.2	3475.4	3496.4	3571.4	3611.6
62.5°	3921.2	3925.4	3980.6	3963.2	3995.6	3987.8	4001.0	4031.6	4059.2	4121.0	4158.8
65°	4376.0	4395.8	4417.4	4395.2	4394.6	4368.2	4351.4	4350.8	4367.6	4380.8	4422.8
67°	4499.6	4519.4	4524.8	4508.6	4485.2	4451.6	4420.4	4404.2	4393.4	4399.4	4425.8
67.5°	4498.4	4517.0	4523.6	4508.0	4475.6	4447.4	4414.4	4395.8	4381.4	4384.4	4406.6
70°	4242.8	4283.0	4304.6	4309.4	4305.2	4256.0	4227.8	4211.0	4199.0	4169.6	4167.8
72.5°	3594.8	3643.4	3660.2	3687.2	3699.2	3626.6	3596.0	3614.6	3572.6	3479.6	3483.8
75°	2639.5	2643.1	2586.7	2575.9	2535.7	2371.3	2322.1	2277.1	2205.1	2092.9	1987.3
77.5°	1375.9	1375.3	1310.5	1277.5	1229.5	1130.5	1125.7	1045.3	988.9	886.2	849.0
80°	977.5	993.1	1014.7	1025.5	1008.7	970.3	917.4	860.4	795.0	730.8	654.0
82.5°	909.0	918.6	930.1	888.0	864.6	810.6	770.4	687.6	641.4	568.2	490.8
85°	442.2	471.6	448.8	422.4	413.4	323.4	312.6	261.0	237.0	195.0	181.8
87.5°	28.2	34.8	31.2	28.2	24.6	13.8	18.6	13.2	13.8	10.2	9.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0
2.5°	605.4	604.8	604.2	603.6	603.0	603.0	602.4	601.8	601.2	600.0	600.0
5°	616.8	616.8	616.2	615.0	615.0	613.8	612.0	611.4	611.4	610.2	609.0
7.5°	635.4	634.8	633.6	633.0	631.8	630.6	629.4	628.2	627.6	625.8	625.2
10°	663.6	662.4	659.4	658.2	657.6	656.4	655.2	654.0	652.2	651.0	650.4
12.5°	695.4	694.8	692.4	693.6	690.6	689.4	688.2	685.2	686.4	684.0	682.8
15°	727.2	727.8	726.6	726.6	724.2	722.4	721.2	718.8	718.2	717.0	715.8
17.5°	755.4	756.6	754.8	753.6	752.4	751.2	748.8	746.4	746.4	744.0	742.8
20°	781.2	782.4	781.8	780.6	778.8	778.2	777.0	775.2	775.2	774.0	772.2
22.5°	810.6	811.2	811.2	810.6	808.8	809.4	808.2	806.4	807.0	804.6	804.6
25°	846.0	847.2	848.4	849.0	847.8	848.4	847.2	846.0	845.4	846.0	845.4
27.5°	894.6	895.8	899.4	896.4	899.4	900.0	898.2	895.8	897.6	900.6	898.8
30°	958.9	957.7	962.5	963.1	962.5	963.1	961.9	960.1	961.3	966.7	963.7
32.5°	1030.9	1033.3	1034.5	1035.7	1037.5	1039.9	1038.1	1036.3	1039.3	1037.5	1041.7
35°	1117.9	1123.3	1125.1	1123.3	1124.5	1128.7	1128.1	1128.7	1134.7	1128.7	1136.5
37.5°	1227.7	1233.1	1237.3	1234.9	1237.9	1237.9	1242.7	1255.9	1247.5	1258.3	1266.7
40°	1387.3	1395.7	1396.3	1395.7	1398.7	1402.3	1407.1	1421.5	1411.9	1423.3	1431.1
42.5°	1551.7	1561.9	1565.5	1559.5	1566.1	1573.9	1574.5	1587.1	1587.7	1589.5	1593.7
45°	1737.1	1746.1	1753.3	1750.3	1750.9	1761.1	1758.7	1770.7	1761.7	1761.7	1764.1
47.5°	1934.5	1942.9	1947.7	1952.5	1946.5	1955.5	1959.7	1957.3	1946.5	1944.1	1929.7
50°	2114.5	2121.7	2128.9	2142.1	2141.5	2145.7	2148.7	2137.9	2135.5	2122.3	2106.1
52.5°	2305.3	2323.9	2340.1	2367.7	2371.9	2386.3	2380.9	2362.9	2359.9	2338.3	2316.7
55°	2571.1	2624.5	2647.9	2690.5	2719.3	2718.7	2706.7	2703.7	2680.9	2637.7	2611.9
57.5°	3033.8	3117.2	3157.4	3212.6	3221.6	3216.2	3200.6	3173.0	3133.4	3060.8	3014.0
60°	3701.6	3753.2	3800.0	3813.2	3819.8	3809.6	3755.0	3693.8	3616.4	3516.2	3432.8
62.5°	4206.2	4259.0	4293.8	4288.4	4247.0	4194.8	4115.0	4012.4	3903.8	3791.6	3666.8
65°	4463.0	4485.2	4479.8	4437.8	4367.0	4275.8	4159.4	4032.8	3905.0	3772.4	3642.8
67°	4449.2	4449.8	4413.2	4331.6	4241.0	4126.4	3984.2	3846.2	3696.2	3557.0	3402.8
67.5°	4424.6	4422.2	4371.2	4281.8	4184.0	4065.8	3918.2	3775.4	3620.0	3479.6	3320.0
70°	4146.2	4112.6	3997.4	3854.6	3718.4	3558.8	3404.0	3240.2	3065.0	2944.4	2760.8
72.5°	3407.0	3293.6	3095.0	2945.6	2799.8	2590.9	2494.3	2290.9	2167.9	2091.1	1952.5
75°	1972.9	1878.1	1724.5	1584.7	1513.9	1390.3	1331.5	1182.1	1150.9	1149.7	1101.7
77.5°	753.0	657.0	558.0	449.4	382.2	303.6	267.6	239.4	217.8	232.8	211.2
80°	564.6	464.4	363.0	264.0	188.4	139.2	119.4	110.4	105.0	100.8	97.8
82.5°	420.6	331.8	257.4	168.0	117.6	88.8	76.8	72.0	69.6	65.4	61.8
85°	142.2	114.0	90.0	62.4	49.2	40.2	37.2	36.0	34.2	31.2	29.4
87.5°	7.8	7.2	7.8	6.0	7.2	6.0	6.6	6.6	6.6	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: P180728

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**CANDELA DISTRIBUTION (continued):**

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0
2.5°	599.4	599.4	599.4	598.2	596.4	592.8	589.2	586.2	583.2	581.4	580.2
5°	608.4	607.2	606.6	606.0	601.8	594.6	588.0	582.0	576.0	571.2	569.4
7.5°	624.6	622.2	621.6	619.8	614.4	603.6	594.0	584.4	576.0	569.4	566.4
10°	649.2	649.2	645.6	643.2	637.2	622.8	609.0	596.4	585.0	577.8	576.0
12.5°	680.4	680.4	677.4	675.6	668.4	649.8	633.0	618.0	607.2	600.0	599.4
15°	712.8	712.2	709.8	707.4	699.6	679.8	663.0	649.8	640.8	632.4	630.0
17.5°	741.6	741.6	738.6	736.2	728.4	711.6	696.6	687.0	676.8	659.4	646.2
20°	770.4	771.0	768.6	766.2	759.6	745.2	738.6	729.0	706.2	668.4	637.2
22.5°	802.2	804.6	801.6	799.2	793.8	787.8	785.4	762.6	714.6	654.0	608.4
25°	843.0	847.2	843.6	842.4	839.4	841.2	834.0	781.2	702.6	622.8	565.8
27.5°	898.8	898.8	899.4	899.4	898.2	904.8	878.4	781.8	676.2	582.6	514.8
30°	964.3	967.9	966.7	966.7	971.5	975.7	903.0	768.6	642.6	532.8	452.4
32.5°	1042.9	1045.9	1047.1	1041.7	1060.9	1039.3	912.0	744.6	601.2	471.0	378.0
35°	1137.7	1141.9	1144.9	1145.5	1158.1	1094.5	907.2	709.2	541.8	393.6	296.4
37.5°	1261.3	1269.7	1276.3	1279.3	1279.9	1141.3	894.0	662.4	464.4	307.2	220.8
40°	1425.7	1434.7	1432.9	1438.9	1404.7	1168.9	864.0	594.6	368.4	225.6	170.4
42.5°	1584.1	1585.3	1587.7	1582.3	1512.7	1183.3	822.0	511.8	276.0	168.6	145.8
45°	1761.1	1750.9	1739.5	1731.1	1612.3	1188.7	764.4	411.0	195.0	141.6	135.0
47.5°	1927.3	1913.5	1890.1	1866.1	1701.1	1180.3	690.6	307.8	148.2	129.6	127.8
50°	2090.5	2064.7	2031.7	2004.1	1786.3	1167.7	609.0	222.0	129.6	123.6	121.8
52.5°	2292.7	2249.5	2206.3	2170.3	1897.3	1147.9	523.2	168.6	121.8	118.8	116.4
55°	2569.9	2509.9	2440.3	2389.9	2047.9	1117.9	433.2	142.8	118.2	115.8	112.2
57.5°	2954.0	2864.0	2785.4	2703.1	2253.7	1087.3	355.8	132.6	117.6	114.0	109.2
60°	3346.4	3238.4	3138.2	3020.6	2463.7	1056.7	301.8	131.4	119.4	114.0	106.8
62.5°	3550.4	3438.8	3318.2	3198.8	2554.3	984.7	264.6	133.2	123.6	115.8	106.8
65°	3503.6	3367.4	3245.0	3123.2	2449.3	848.4	223.8	135.6	132.0	123.0	108.6
67°	3268.4	3126.2	3008.6	2892.2	2215.3	710.4	192.0	138.0	141.0	131.4	112.2
67.5°	3185.6	3043.4	2927.6	2814.2	2146.3	681.6	184.2	139.2	142.8	133.8	113.4
70°	2641.3	2536.9	2413.9	2326.3	1737.7	504.6	151.2	141.6	153.6	147.6	118.8
72.5°	1900.9	1801.3	1708.9	1660.3	1279.9	352.8	127.2	139.2	160.2	155.4	121.2
75°	1010.5	1004.5	970.9	994.9	792.0	230.4	112.2	130.2	153.0	142.2	112.8
77.5°	204.0	210.0	246.6	243.0	255.6	128.4	96.0	111.6	118.2	104.4	91.8
80°	94.8	93.0	91.2	92.4	90.6	82.2	78.0	87.6	82.2	67.2	61.2
82.5°	58.8	57.6	55.8	55.2	61.2	65.4	68.4	69.0	54.6	46.8	45.0
85°	28.2	28.2	27.6	28.8	36.0	53.4	57.6	51.0	36.6	33.6	31.8
87.5°	5.4	5.4	6.0	5.4	7.2	12.6	14.4	16.8	13.8	14.4	16.2
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: P180728

CATALOG NUMBER: ICS-E02-LED-E1-SL3

**CANDELA DISTRIBUTION (continued):**

	165°	175°	180°
0°	597.0	597.0	597.0
2.5°	579.0	577.8	577.8
5°	567.0	566.4	566.4
7.5°	564.0	564.6	564.0
10°	575.4	574.8	577.2
12.5°	600.6	602.4	601.8
15°	627.0	628.2	628.2
17.5°	634.8	630.6	630.0
20°	614.4	606.6	604.8
22.5°	576.0	561.6	562.2
25°	527.4	510.0	511.2
27.5°	471.0	452.4	451.8
30°	403.2	382.8	372.6
32.5°	321.6	297.0	297.0
35°	241.8	222.0	214.8
37.5°	183.6	172.2	168.6
40°	153.0	147.6	146.4
42.5°	139.2	137.4	136.8
45°	132.0	130.8	130.2
47.5°	125.4	124.8	124.2
50°	120.6	120.0	119.4
52.5°	116.4	115.2	114.6
55°	110.4	110.4	110.4
57.5°	106.8	106.8	106.2
60°	103.2	102.6	102.6
62.5°	100.2	99.0	99.6
65°	98.4	96.6	96.6
67°	97.2	93.6	93.6
67.5°	97.2	92.4	92.4
70°	95.4	87.6	86.4
72.5°	93.6	82.2	80.4
75°	88.8	78.0	76.2
77.5°	76.2	69.6	68.4
80°	58.8	51.0	52.2
82.5°	42.6	36.6	36.0
85°	30.6	26.4	26.4
87.5°	16.2	13.8	14.4
90°	0.0	0.0	0.0

(END OF REPORT)