

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: P180743

Luminaire Tested: **ICS-F03-LED-E1-SL3**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180743
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-F03-LED-E1-SL3
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6767.7 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

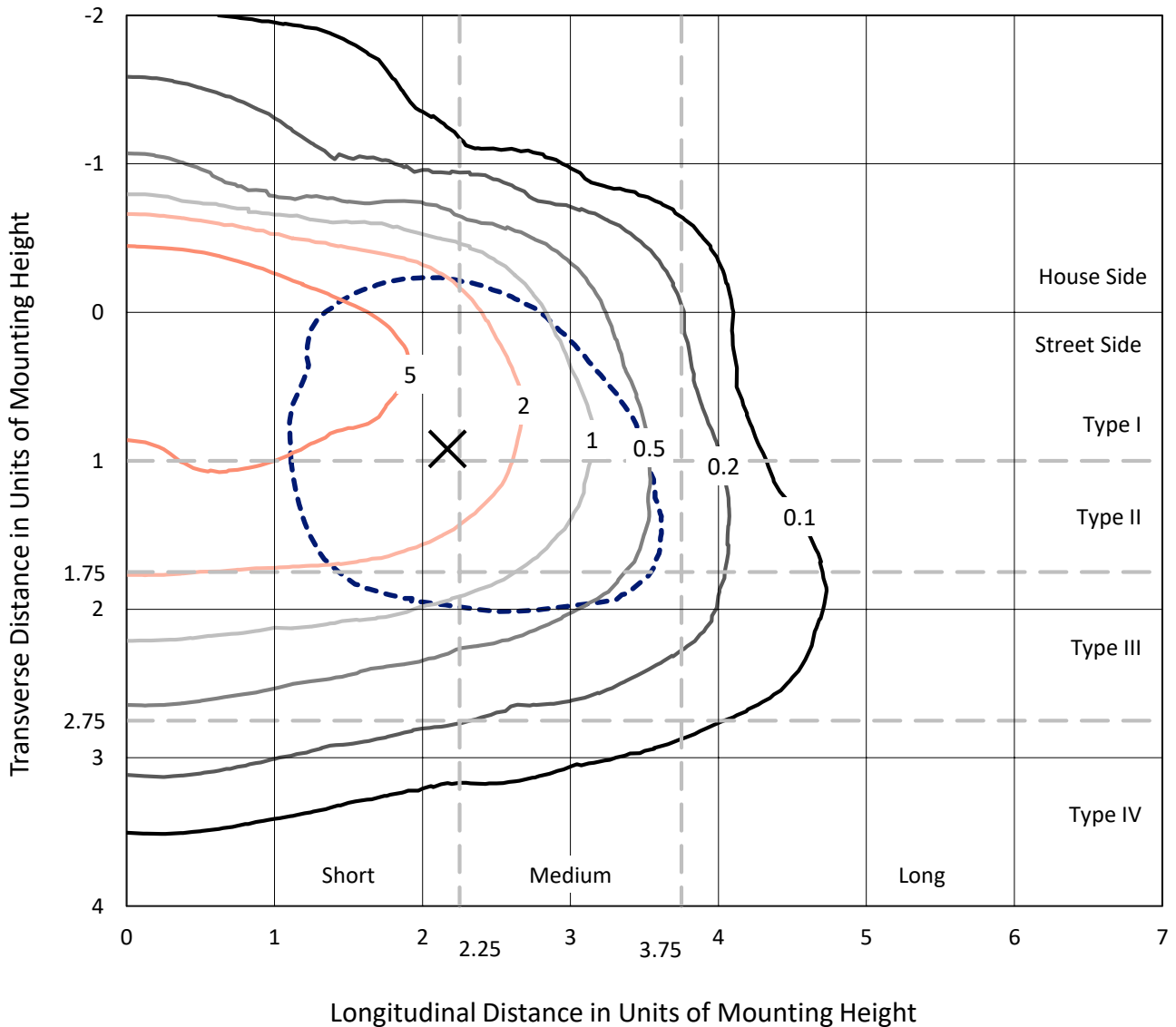
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

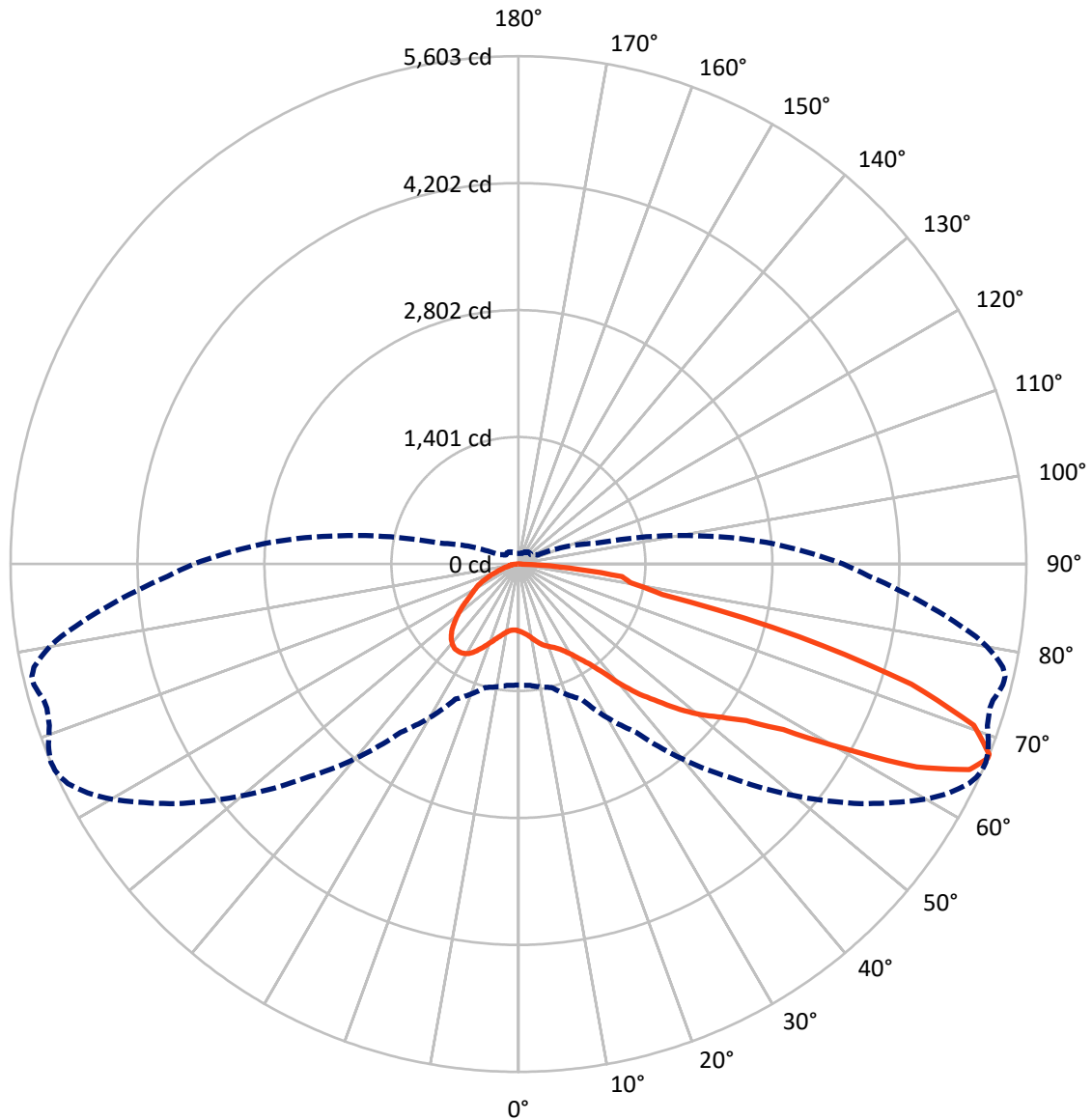
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.5 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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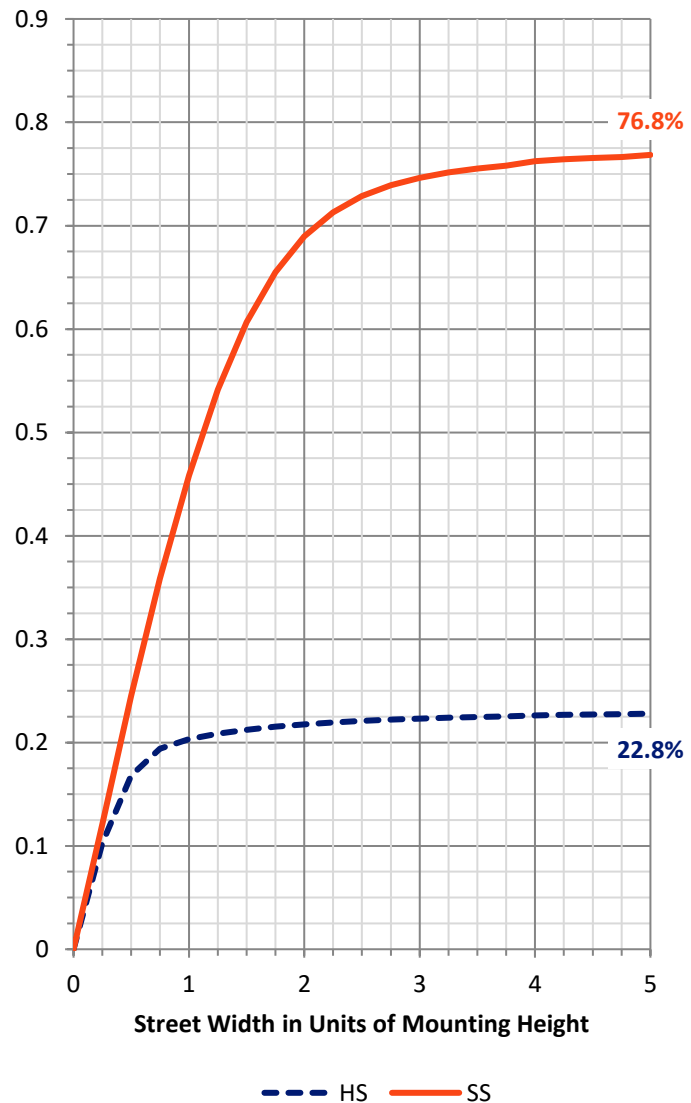
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1561.7	0.0	1561.7
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	5206.0	0.0	5206.0
	% Fixture	76.9	0.0	76.9
Total	Lumens	6767.7	0.0	6767.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	1.1
10°-20°	252.4	3.7
20°-30°	445.7	6.6
30°-40°	639.7	9.5
40°-50°	971.5	14.4
50°-60°	1430.4	21.1
60°-70°	1901.0	28.1
70°-80°	930.0	13.7
80°-90°	123.5	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°	6767.7	100.0
0°-180°	6767.7	100.0



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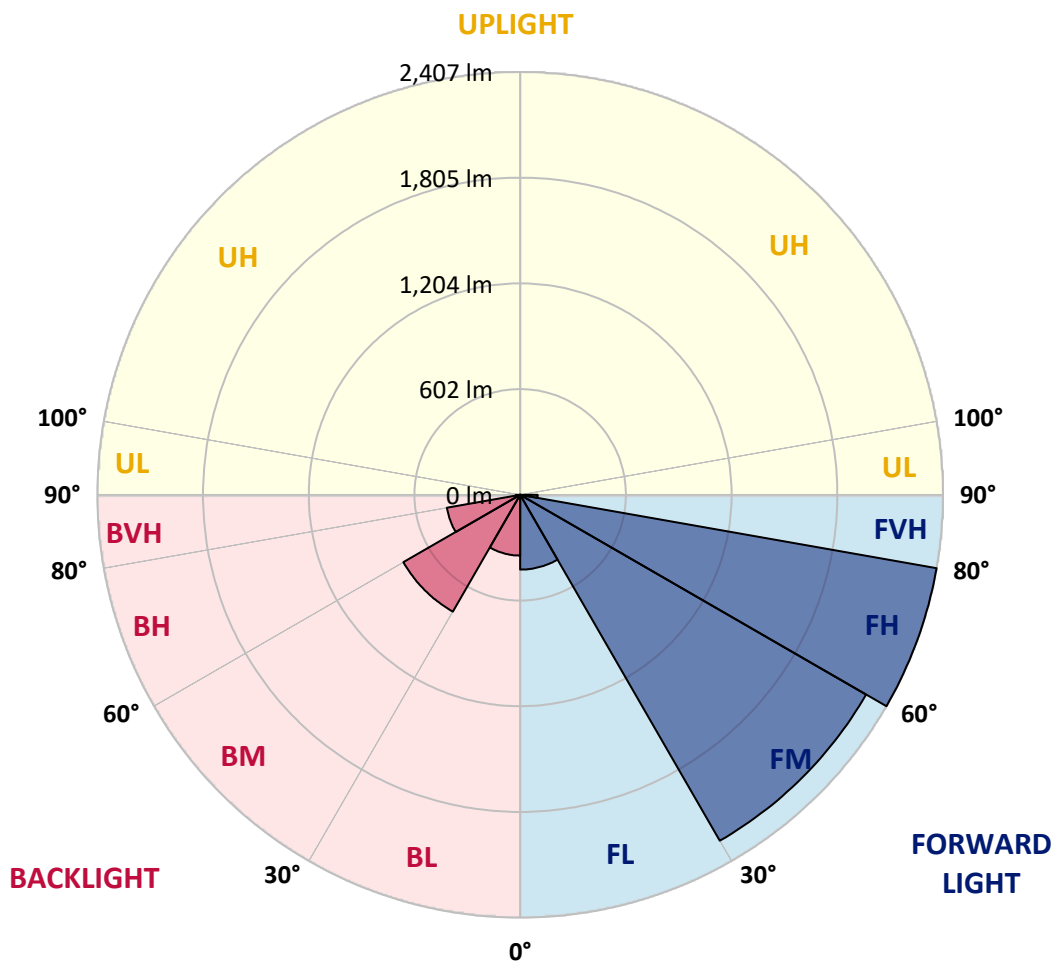
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	425.8	6.3			
FM	(30°-60°)	2273.8	33.6			
FH	(60°-80°)	2407.2	35.6			G2/5000
FVH	(80°-90°)	99.2	1.5			G1/100
BL	(0°-30°)	345.9	5.1	B1/500		
BM	(30°-60°)	767.8	11.3	B1/1000		
BH	(60°-80°)	423.8	6.3	B1/500		G1/500
BVH	(80°-90°)	24.3	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°	739.3	739.3	739.3	739.3	739.3	739.3	739.3	739.3	739.3	739.3	739.3
2.5°	774.2	775.0	773.5	772.7	768.3	763.8	760.8	757.1	757.1	757.1	755.6
5°	818.1	815.1	817.3	812.1	803.2	795.0	786.9	780.2	778.7	778.7	775.7
7.5°	870.8	867.1	865.6	858.2	844.8	832.9	816.6	809.9	806.2	804.7	803.2
10°	934.7	934.7	925.1	912.4	894.6	873.8	856.0	844.1	843.3	843.3	836.6
12.5°	1000.1	1001.6	989.0	976.3	947.3	919.8	899.0	885.7	884.9	882.0	878.2
15°	1060.3	1056.6	1048.4	1029.8	997.9	965.2	939.2	925.8	922.8	919.8	917.6
17.5°	1110.1	1106.3	1095.9	1072.2	1038.7	1000.1	968.1	954.0	952.5	951.1	948.1
20°	1141.3	1138.3	1123.4	1095.9	1061.0	1021.6	987.5	977.8	974.8	974.8	973.3
22.5°	1159.1	1154.6	1133.1	1096.7	1062.5	1033.5	1005.3	999.4	997.1	997.9	997.9
25°	1168.0	1164.3	1133.8	1081.8	1049.1	1041.0	1029.1	1025.4	1026.1	1026.8	1028.3
27.5°	1169.5	1164.3	1128.6	1062.5	1032.0	1055.1	1063.3	1069.2	1069.2	1072.2	1077.4
30°	1158.4	1152.4	1118.2	1047.6	1024.6	1083.3	1116.0	1131.6	1137.6	1136.1	1148.0
32.5°	1139.0	1135.3	1107.8	1047.6	1045.4	1139.0	1197.0	1219.3	1222.3	1223.7	1237.1
35°	1132.4	1131.6	1119.7	1083.3	1110.1	1237.1	1325.5	1342.6	1346.3	1346.3	1356.0
37.5°	1130.9	1134.6	1148.0	1150.2	1223.7	1382.7	1498.7	1524.7	1524.7	1532.1	1532.1
40°	1130.9	1139.0	1189.6	1249.7	1362.7	1572.2	1732.7	1762.4	1762.4	1770.6	1766.1
42.5°	1174.7	1186.6	1269.8	1384.2	1538.0	1767.6	1951.9	1985.3	1987.6	1985.3	1992.0
45°	1260.9	1271.3	1372.3	1536.6	1718.6	1977.2	2161.4	2201.5	2193.4	2198.6	2200.8
47.5°	1375.3	1391.7	1506.8	1703.0	1894.7	2171.1	2396.2	2432.6	2429.7	2431.9	2422.2
50°	1497.2	1514.3	1642.8	1867.9	2070.0	2327.1	2584.9	2639.2	2634.0	2637.7	2642.9
52.5°	1604.9	1615.3	1739.4	1992.0	2203.0	2472.7	2729.8	2797.4	2809.3	2810.8	2814.5
55°	1668.8	1681.4	1795.1	2053.7	2299.6	2615.4	2895.5	2998.1	3021.1	3027.0	3043.4
57.5°	1691.1	1704.5	1807.8	2062.6	2352.4	2749.1	3126.6	3307.2	3326.5	3358.4	3410.4
60°	1690.4	1704.5	1794.4	2042.5	2405.9	2914.8	3486.2	3788.6	3886.7	3919.4	3993.7
62.5°	1621.3	1637.6	1729.0	1981.6	2474.2	3126.6	4021.2	4486.3	4612.6	4672.1	4752.3
65°	1469.7	1481.6	1567.0	1827.1	2454.9	3335.4	4468.5	5048.8	5163.9	5250.9	5394.3
67°	1335.2	1342.6	1409.5	1644.3	2266.2	3342.8	4609.7	5188.5	5288.8	5380.9	5528.8
67.5°	1301.0	1316.6	1368.6	1588.6	2195.6	3300.5	4600.0	5166.9	5269.4	5365.3	5521.3
70°	1058.8	1081.1	1107.1	1254.9	1726.0	2776.6	4258.9	4793.9	4883.8	4973.0	5190.7
72.5°	653.1	693.2	698.4	792.1	1123.4	1919.2	3446.1	4042.7	4110.3	4174.2	4397.2
75°	384.9	390.8	409.4	485.2	659.1	1147.2	2312.3	3003.3	3065.7	3096.9	3271.5
77.5°	214.7	220.7	236.3	301.7	506.7	772.7	1346.3	1764.7	1802.5	1841.9	1813.7
80°	89.2	97.3	104.8	121.9	237.0	610.0	925.8	1121.9	1146.5	1169.5	1198.5
82.5°	43.1	46.1	56.5	64.6	86.2	250.4	725.9	972.6	1001.6	1035.0	1102.6
85°	20.1	22.3	31.2	37.2	41.6	63.2	243.0	473.3	513.4	520.9	534.2
87.5°	1.5	1.5	3.7	5.2	7.4	8.2	25.3	35.7	40.1	36.4	46.1
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°	739.3	739.3	739.3	739.3	739.3	739.3	739.3	739.3	739.3	739.3	739.3
2.5°	754.9	754.2	752.7	752.7	751.9	751.9	751.9	750.4	750.4	750.4	749.7
5°	775.0	774.2	772.0	772.0	770.5	770.5	768.3	767.5	766.0	766.0	765.3
7.5°	801.0	800.2	797.3	797.3	795.0	794.3	792.8	790.6	790.6	789.1	787.6
10°	836.6	834.4	833.7	829.9	830.7	829.2	827.7	825.5	824.0	822.5	821.0
12.5°	876.8	876.8	873.0	870.8	872.3	870.8	867.8	867.1	864.9	864.9	862.6
15°	914.6	914.6	913.2	910.2	910.9	908.7	908.0	906.5	903.5	904.2	903.5
17.5°	947.3	947.3	945.1	943.6	943.6	941.4	942.1	940.7	939.2	938.4	936.2
20°	973.3	973.3	971.9	970.4	971.1	971.1	968.9	968.9	968.9	967.4	967.4
22.5°	998.6	999.4	999.4	999.4	1000.1	1000.8	1000.1	1001.6	1000.8	1002.3	1002.3
25°	1032.0	1034.3	1035.8	1035.8	1039.5	1040.2	1041.0	1043.2	1043.2	1045.4	1046.2
27.5°	1081.8	1083.3	1089.3	1090.7	1091.5	1097.4	1098.2	1101.1	1104.1	1104.9	1105.6
30°	1150.2	1153.9	1158.4	1161.3	1161.3	1168.8	1171.7	1170.2	1178.4	1180.6	1183.6
32.5°	1241.6	1244.5	1249.0	1252.0	1254.9	1258.7	1259.4	1263.1	1269.8	1275.8	1272.0
35°	1356.7	1364.2	1356.7	1364.9	1367.1	1372.3	1370.9	1375.3	1378.3	1380.5	1379.8
37.5°	1523.9	1520.2	1518.7	1515.7	1510.5	1528.4	1519.5	1518.7	1514.3	1526.9	1518.7
40°	1743.9	1746.1	1748.3	1736.4	1729.7	1729.7	1727.5	1719.3	1715.6	1726.8	1725.3
42.5°	1973.4	1975.7	1965.3	1957.8	1940.7	1938.5	1928.1	1925.9	1922.2	1928.1	1922.2
45°	2182.2	2183.7	2160.7	2164.4	2151.0	2153.3	2136.9	2143.6	2134.7	2140.6	2151.8
47.5°	2415.5	2418.5	2398.4	2406.6	2393.2	2385.1	2384.3	2388.8	2379.1	2385.1	2388.0
50°	2627.3	2623.6	2613.2	2615.4	2609.5	2610.9	2602.0	2610.2	2599.1	2610.9	2609.5
52.5°	2815.3	2810.8	2808.6	2816.0	2810.8	2810.8	2805.6	2809.3	2810.8	2828.6	2832.4
55°	3043.4	3047.1	3050.8	3064.2	3070.1	3060.5	3070.1	3088.7	3089.4	3131.8	3154.8
57.5°	3409.7	3435.7	3449.1	3457.2	3492.2	3488.4	3510.7	3555.3	3559.8	3657.9	3715.1
60°	4048.7	4094.7	4138.6	4114.8	4185.4	4206.9	4220.3	4303.5	4329.5	4422.4	4472.2
62.5°	4855.6	4860.8	4929.1	4907.6	4947.7	4938.1	4954.4	4992.3	5026.5	5103.0	5149.8
65°	5418.8	5443.3	5470.1	5442.6	5441.8	5409.1	5388.3	5387.6	5408.4	5424.7	5476.7
67°	5571.9	5596.4	5603.1	5583.0	5554.0	5512.4	5473.8	5453.7	5440.3	5447.8	5480.5
67.5°	5570.4	5593.4	5601.6	5582.3	5542.1	5507.2	5466.3	5443.3	5425.5	5429.2	5456.7
70°	5253.8	5303.6	5330.4	5336.3	5331.1	5270.2	5235.3	5214.5	5199.6	5163.2	5161.0
72.5°	4451.4	4511.6	4532.4	4565.8	4580.7	4490.8	4452.9	4475.9	4423.9	4308.7	4313.9
75°	3268.5	3273.0	3203.1	3189.8	3140.0	2936.4	2875.5	2819.7	2730.6	2591.6	2460.9
77.5°	1703.7	1703.0	1622.7	1581.9	1522.4	1399.8	1393.9	1294.3	1224.5	1097.4	1051.4
80°	1210.4	1229.7	1256.4	1269.8	1249.0	1201.5	1136.1	1065.5	984.5	905.0	809.9
82.5°	1125.7	1137.6	1151.7	1099.7	1070.7	1003.8	954.0	851.5	794.3	703.6	607.8
85°	547.6	584.0	555.8	523.1	511.9	400.5	387.1	323.2	293.5	241.5	225.1
87.5°	34.9	43.1	38.6	34.9	30.5	17.1	23.0	16.3	17.1	12.6	11.1
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°	739.3	739.3	739.3	739.3	739.3	739.3	739.3	739.3	739.3	739.3	739.3
2.5°	749.7	749.0	748.2	747.5	746.7	746.7	746.0	745.2	744.5	743.0	743.0
5°	763.8	763.8	763.1	761.6	761.6	760.1	757.9	757.1	757.1	755.6	754.2
7.5°	786.9	786.1	784.6	783.9	782.4	780.9	779.4	777.9	777.2	775.0	774.2
10°	821.8	820.3	816.6	815.1	814.3	812.9	811.4	809.9	807.7	806.2	805.4
12.5°	861.2	860.4	857.4	858.9	855.2	853.7	852.2	848.5	850.0	847.0	845.5
15°	900.5	901.3	899.8	899.8	896.8	894.6	893.1	890.1	889.4	887.9	886.4
17.5°	935.5	936.9	934.7	933.2	931.7	930.3	927.3	924.3	924.3	921.3	919.8
20°	967.4	968.9	968.1	966.7	964.4	963.7	962.2	960.0	960.0	958.5	956.3
22.5°	1003.8	1004.6	1004.6	1003.8	1001.6	1002.3	1000.8	998.6	999.4	996.4	996.4
25°	1047.6	1049.1	1050.6	1051.4	1049.9	1050.6	1049.1	1047.6	1046.9	1047.6	1046.9
27.5°	1107.8	1109.3	1113.8	1110.1	1113.8	1114.5	1112.3	1109.3	1111.5	1115.3	1113.0
30°	1187.3	1185.8	1191.8	1192.5	1191.8	1192.5	1191.0	1188.8	1190.3	1197.0	1193.3
32.5°	1276.5	1279.5	1281.0	1282.4	1284.7	1287.6	1285.4	1283.2	1286.9	1284.7	1289.9
35°	1384.2	1390.9	1393.1	1390.9	1392.4	1397.6	1396.9	1397.6	1405.0	1397.6	1407.3
37.5°	1520.2	1526.9	1532.1	1529.1	1532.8	1532.8	1538.8	1555.1	1544.7	1558.1	1568.5
40°	1717.8	1728.2	1729.0	1728.2	1732.0	1736.4	1742.4	1760.2	1748.3	1762.4	1772.1
42.5°	1921.4	1934.1	1938.5	1931.1	1939.3	1948.9	1949.7	1965.3	1966.0	1968.2	1973.4
45°	2151.0	2162.2	2171.1	2167.4	2168.1	2180.7	2177.8	2192.6	2181.5	2181.5	2184.5
47.5°	2395.5	2405.9	2411.8	2417.8	2410.3	2421.5	2426.7	2423.7	2410.3	2407.4	2389.5
50°	2618.4	2627.3	2636.2	2652.6	2651.8	2657.0	2660.7	2647.4	2644.4	2628.0	2608.0
52.5°	2854.7	2877.7	2897.8	2931.9	2937.1	2955.0	2948.3	2926.0	2922.3	2895.5	2868.8
55°	3183.8	3249.9	3278.9	3331.7	3367.3	3366.6	3351.7	3348.0	3319.8	3266.3	3234.3
57.5°	3756.7	3860.0	3909.7	3978.1	3989.2	3982.5	3963.2	3929.1	3880.0	3790.1	3732.2
60°	4583.6	4647.5	4705.5	4721.8	4730.0	4717.4	4649.8	4574.0	4478.1	4354.1	4250.8
62.5°	5208.5	5273.9	5317.0	5310.3	5259.0	5194.4	5095.6	4968.5	4834.0	4695.1	4540.6
65°	5526.5	5554.0	5547.3	5495.3	5407.6	5294.7	5150.6	4993.8	4835.5	4671.3	4510.8
67°	5509.4	5510.2	5464.9	5363.8	5251.6	5109.7	4933.6	4762.7	4577.0	4404.6	4213.6
67.5°	5479.0	5476.0	5412.8	5302.1	5181.0	5034.7	4851.9	4675.0	4482.6	4308.7	4111.1
70°	5134.2	5092.6	4950.0	4773.1	4604.5	4406.8	4215.1	4012.3	3795.3	3646.0	3418.6
72.5°	4218.8	4078.4	3832.5	3647.5	3466.9	3208.3	3088.7	2836.8	2684.5	2589.4	2417.8
75°	2443.0	2325.6	2135.4	1962.3	1874.6	1721.6	1648.7	1463.7	1425.1	1423.6	1364.2
77.5°	932.5	813.6	691.0	556.5	473.3	376.0	331.4	296.5	269.7	288.3	261.5
80°	699.2	575.1	449.5	326.9	233.3	172.4	147.9	136.7	130.0	124.8	121.1
82.5°	520.9	410.9	318.8	208.0	145.6	110.0	95.1	89.2	86.2	81.0	76.5
85°	176.1	141.2	111.5	77.3	60.9	49.8	46.1	44.6	42.4	38.6	36.4
87.5°	9.7	8.9	9.7	7.4	8.9	7.4	8.2	8.2	8.2	7.4	7.4
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	739.3	739.3	739.3	739.3	739.3	739.3	739.3	739.3	739.3	739.3	739.3
2.5°	742.3	742.3	742.3	740.8	738.6	734.1	729.6	725.9	722.2	720.0	718.5
5°	753.4	751.9	751.2	750.4	745.2	736.3	728.2	720.7	713.3	707.3	705.1
7.5°	773.5	770.5	769.8	767.5	760.8	747.5	735.6	723.7	713.3	705.1	701.4
10°	803.9	803.9	799.5	796.5	789.1	771.2	754.2	738.6	724.4	715.5	713.3
12.5°	842.6	842.6	838.9	836.6	827.7	804.7	783.9	765.3	751.9	743.0	742.3
15°	882.7	882.0	879.0	876.0	866.4	841.8	821.0	804.7	793.5	783.1	780.2
17.5°	918.4	918.4	914.6	911.7	902.0	881.2	862.6	850.7	838.1	816.6	800.2
20°	954.0	954.8	951.8	948.8	940.7	922.8	914.6	902.8	874.5	827.7	789.1
22.5°	993.4	996.4	992.7	989.7	983.0	975.6	972.6	944.4	884.9	809.9	753.4
25°	1043.9	1049.1	1044.7	1043.2	1039.5	1041.7	1032.8	967.4	870.1	771.2	700.7
27.5°	1113.0	1113.0	1113.8	1113.8	1112.3	1120.5	1087.8	968.1	837.4	721.5	637.5
30°	1194.0	1198.5	1197.0	1197.0	1202.9	1208.1	1118.2	951.8	795.8	659.8	560.2
32.5°	1291.4	1295.1	1296.6	1289.9	1313.6	1286.9	1129.4	922.1	744.5	583.3	468.1
35°	1408.8	1414.0	1417.7	1418.4	1434.0	1355.3	1123.4	878.2	670.9	487.4	367.0
37.5°	1561.8	1572.2	1580.4	1584.1	1584.8	1413.2	1107.1	820.3	575.1	380.4	273.4
40°	1765.4	1776.5	1774.3	1781.7	1739.4	1447.4	1069.9	736.3	456.2	279.4	211.0
42.5°	1961.6	1963.0	1966.0	1959.3	1873.1	1465.2	1017.9	633.8	341.8	208.8	180.6
45°	2180.7	2168.1	2154.0	2143.6	1996.5	1471.9	946.6	509.0	241.5	175.4	167.2
47.5°	2386.6	2369.5	2340.5	2310.8	2106.4	1461.5	855.2	381.2	183.5	160.5	158.3
50°	2588.7	2556.7	2515.8	2481.7	2211.9	1445.9	754.2	274.9	160.5	153.1	150.8
52.5°	2839.1	2785.6	2732.1	2687.5	2349.4	1421.4	647.9	208.8	150.8	147.1	144.1
55°	3182.3	3108.0	3021.8	2959.4	2535.9	1384.2	536.5	176.8	146.4	143.4	138.9
57.5°	3657.9	3546.4	3449.1	3347.3	2790.8	1346.3	440.6	164.2	145.6	141.2	135.2
60°	4143.8	4010.0	3886.0	3740.3	3050.8	1308.4	373.7	162.7	147.9	141.2	132.3
62.5°	4396.4	4258.2	4108.9	3961.0	3163.0	1219.3	327.7	164.9	153.1	143.4	132.3
65°	4338.5	4169.8	4018.2	3867.4	3033.0	1050.6	277.1	167.9	163.5	152.3	134.5
67°	4047.2	3871.1	3725.5	3581.3	2743.2	879.7	237.8	170.9	174.6	162.7	138.9
67.5°	3944.7	3768.6	3625.2	3484.7	2657.8	844.1	228.1	172.4	176.8	165.7	140.4
70°	3270.7	3141.5	2989.1	2880.7	2151.8	624.9	187.2	175.4	190.2	182.8	147.1
72.5°	2353.9	2230.5	2116.1	2055.9	1584.8	436.9	157.5	172.4	198.4	192.4	150.1
75°	1251.2	1243.8	1202.2	1231.9	980.8	285.3	138.9	161.2	189.5	176.1	139.7
77.5°	252.6	260.1	305.4	300.9	316.5	159.0	118.9	138.2	146.4	129.3	113.7
80°	117.4	115.2	112.9	114.4	112.2	101.8	96.6	108.5	101.8	83.2	75.8
82.5°	72.8	71.3	69.1	68.4	75.8	81.0	84.7	85.4	67.6	58.0	55.7
85°	34.9	34.9	34.2	35.7	44.6	66.1	71.3	63.2	45.3	41.6	39.4
87.5°	6.7	6.7	7.4	6.7	8.9	15.6	17.8	20.8	17.1	17.8	20.1
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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CATALOG NUMBER: ICS-F03-LED-E1-SL3

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	739.3	739.3	739.3
2.5°	717.0	715.5	715.5
5°	702.1	701.4	701.4
7.5°	698.4	699.2	698.4
10°	712.5	711.8	714.8
12.5°	743.8	746.0	745.2
15°	776.4	777.9	777.9
17.5°	786.1	780.9	780.2
20°	760.8	751.2	749.0
22.5°	713.3	695.5	696.2
25°	653.1	631.6	633.0
27.5°	583.3	560.2	559.5
30°	499.3	474.0	461.4
32.5°	398.3	367.8	367.8
35°	299.4	274.9	266.0
37.5°	227.4	213.2	208.8
40°	189.5	182.8	181.3
42.5°	172.4	170.1	169.4
45°	163.5	162.0	161.2
47.5°	155.3	154.5	153.8
50°	149.3	148.6	147.9
52.5°	144.1	142.7	141.9
55°	136.7	136.7	136.7
57.5°	132.3	132.3	131.5
60°	127.8	127.1	127.1
62.5°	124.1	122.6	123.3
65°	121.9	119.6	119.6
67°	120.4	115.9	115.9
67.5°	120.4	114.4	114.4
70°	118.1	108.5	107.0
72.5°	115.9	101.8	99.6
75°	110.0	96.6	94.4
77.5°	94.4	86.2	84.7
80°	72.8	63.2	64.6
82.5°	52.8	45.3	44.6
85°	37.9	32.7	32.7
87.5°	20.1	17.1	17.8
90°	0.0	0.0	0.0

(END OF REPORT)