

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: P180552

Luminaire Tested: **ICS-F04-LED-E1-SL2-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180552
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33678)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F04-LED-E1-SL2-7030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8293.1 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 102.2
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

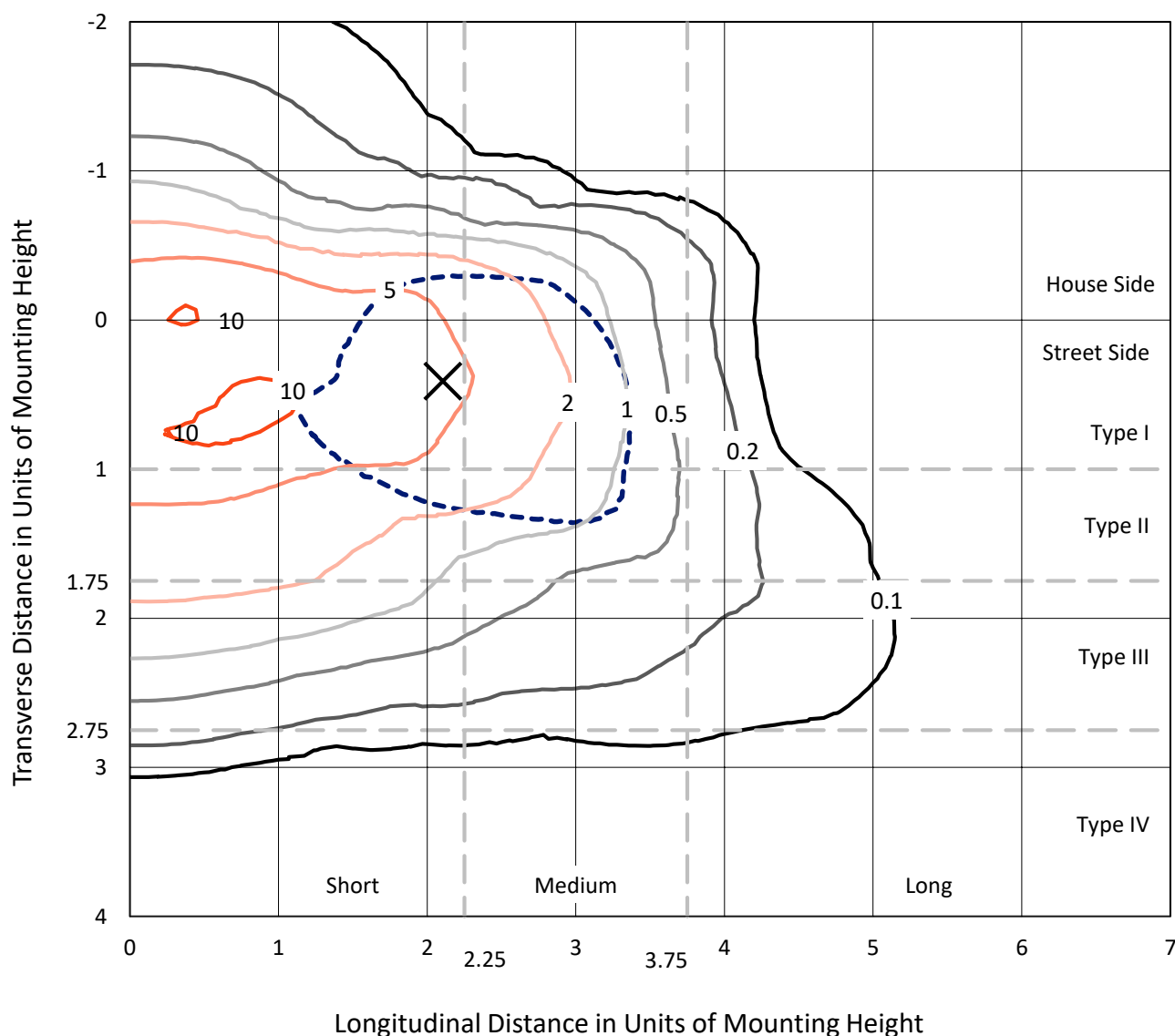


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

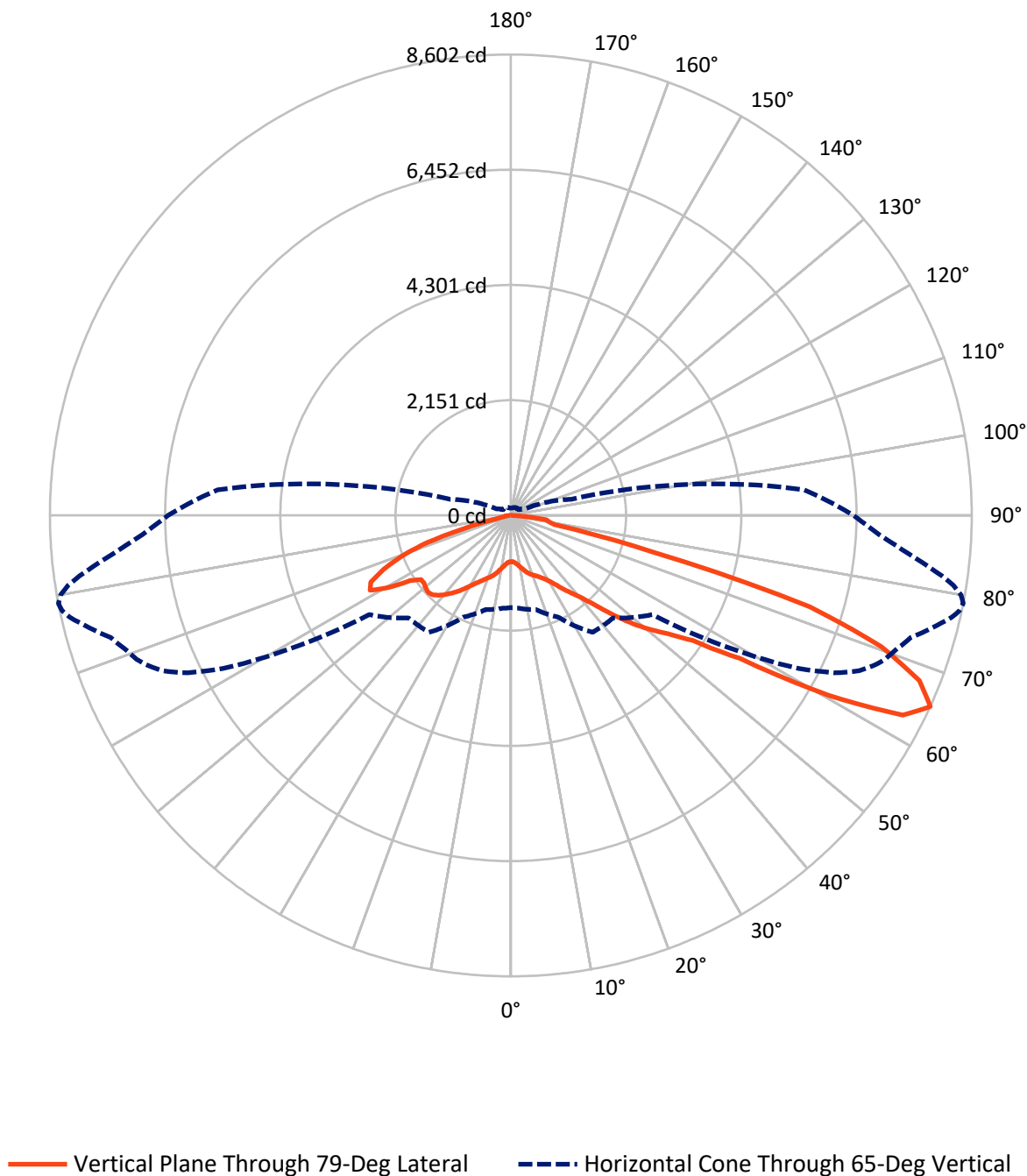


Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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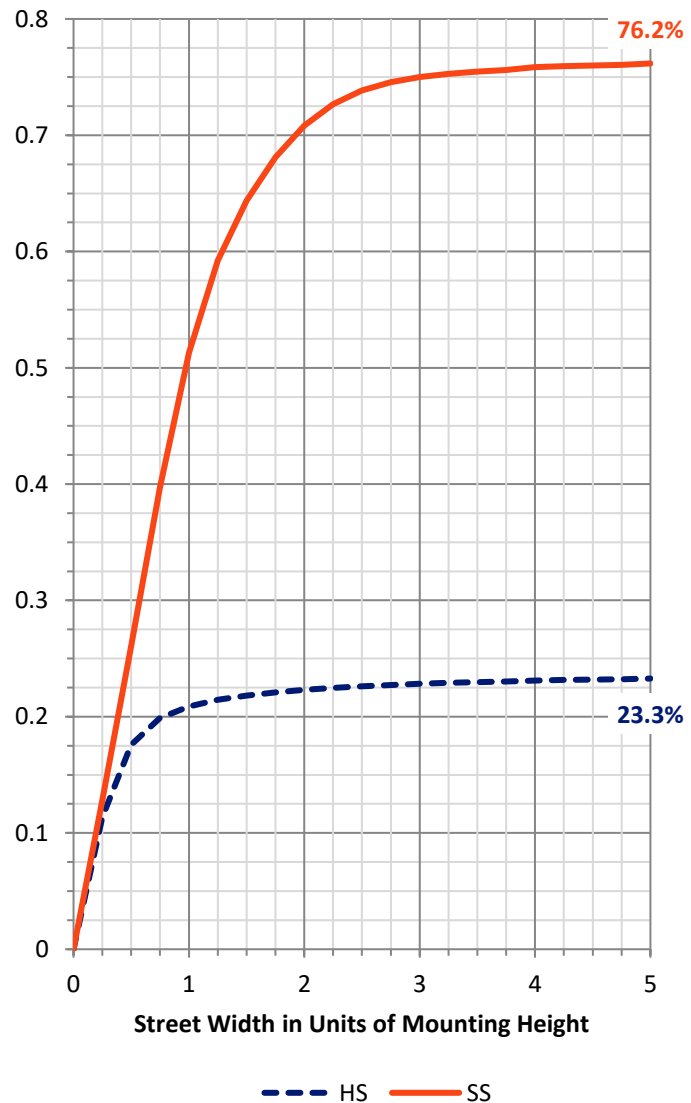
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1960.5	0.0	1960.5
	% Fixture	23.6	0.0	23.6
Street Side	Lumens	6332.7	0.0	6332.7
	% Fixture	76.4	0.0	76.4
Total	Lumens	8293.1	0.0	8293.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	1.0
10°-20°	280.6	3.4
20°-30°	484.6	5.8
30°-40°	802.2	9.7
40°-50°	1360.5	16.4
50°-60°	1807.7	21.8
60°-70°	2335.1	28.2
70°-80°	979.3	11.8
80°-90°	157.3	1.9
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°	8293.1	100.0
0°-180°	8293.1	100.0

Coefficient of Utilization



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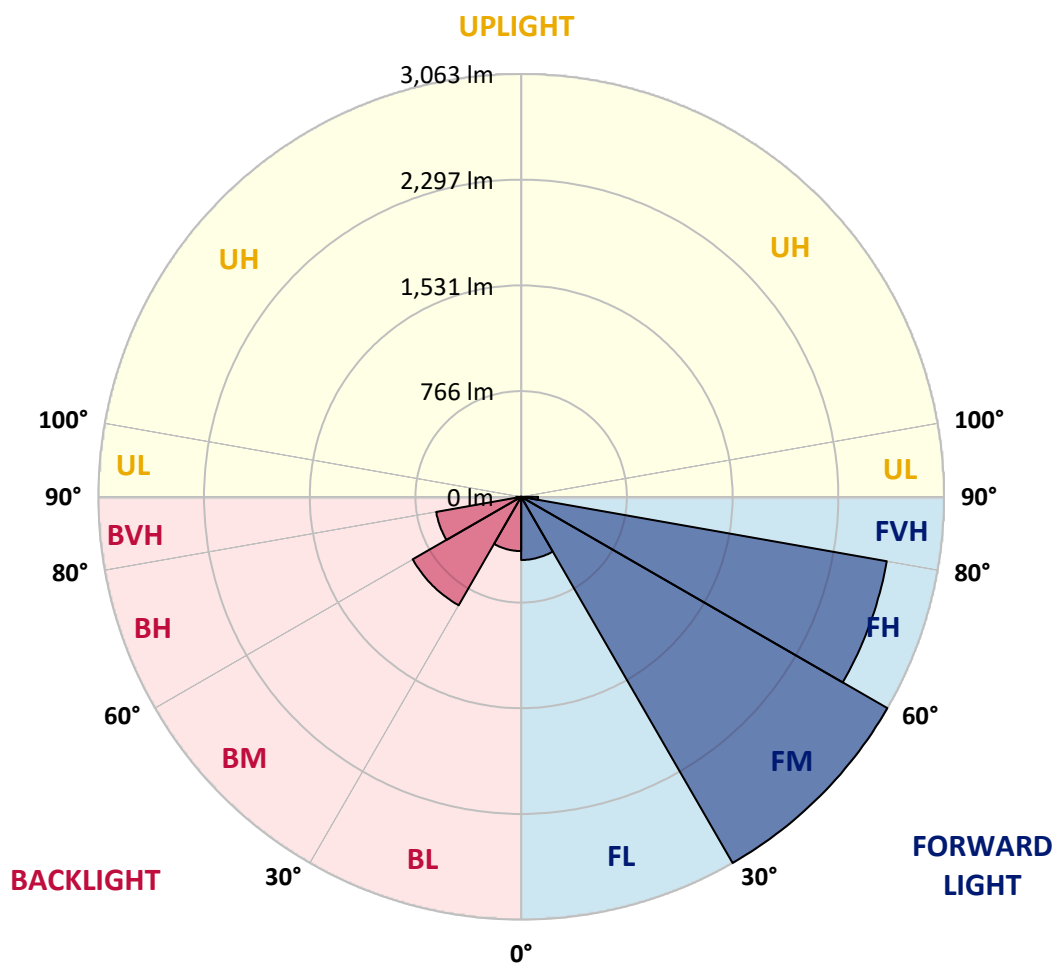
CATALOG NUMBER: ICS-F04-LED-E1-SL2-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	457.6	5.5			
FM	(30°-60°)	3062.9	36.9			
FH	(60°-80°)	2689.2	32.4			G2/5000
FVH	(80°-90°)	123.0	1.5			G2/225
BL	(0°-30°)	393.4	4.7	B1/500		
BM	(30°-60°)	907.5	10.9	B1/1000		
BH	(60°-80°)	625.3	7.5	B2/1000		G2/1000
BVH	(80°-90°)	34.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	863.2	863.2	863.2	863.2	863.2	863.2	863.2	863.2	863.2	863.2	863.2
2.5°	860.5	863.2	861.4	863.2	865.0	865.9	867.7	866.8	866.8	867.7	865.9
5°	860.5	860.5	863.2	867.7	869.6	875.0	881.3	880.4	881.3	880.4	882.2
7.5°	878.6	877.7	880.4	885.8	887.6	895.8	906.7	908.5	910.3	910.3	913.0
10°	910.3	909.4	912.1	914.8	917.5	923.8	939.2	945.6	946.5	947.4	951.0
12.5°	950.1	949.2	945.6	945.6	944.7	956.4	977.2	989.0	990.8	994.4	997.1
15°	978.1	975.4	970.0	966.4	970.9	989.9	1020.7	1034.2	1036.0	1038.8	1046.0
17.5°	1005.3	1002.6	990.8	981.8	988.1	1018.9	1060.5	1075.0	1078.6	1081.3	1089.4
20°	1043.3	1041.5	1024.3	1002.6	1000.8	1040.6	1091.2	1110.2	1113.0	1116.6	1124.7
22.5°	1101.2	1093.0	1073.1	1032.4	1012.5	1053.2	1113.0	1139.2	1142.8	1146.4	1157.3
25°	1173.6	1170.0	1135.6	1073.1	1031.5	1065.9	1136.5	1169.1	1174.5	1179.0	1193.5
27.5°	1248.7	1243.3	1206.2	1124.7	1065.0	1091.2	1173.6	1210.7	1217.9	1225.2	1238.7
30°	1315.6	1313.8	1283.1	1194.4	1119.3	1139.2	1233.3	1278.5	1286.7	1295.7	1308.4
32.5°	1473.1	1474.0	1442.3	1351.8	1250.5	1226.1	1319.3	1387.1	1390.7	1401.6	1424.2
35°	1774.4	1778.0	1766.3	1694.8	1580.8	1480.3	1489.4	1556.3	1559.9	1569.0	1590.7
37.5°	1976.2	1983.4	2019.6	2042.2	1984.3	1938.2	1823.3	1797.0	1799.7	1794.3	1789.8
40°	2087.5	2098.3	2193.3	2311.0	2374.3	2375.2	2325.4	2209.6	2165.3	2152.6	2098.3
42.5°	2150.8	2168.9	2303.7	2504.6	2686.5	2811.3	2842.1	2713.6	2681.0	2623.1	2519.1
45°	2192.4	2214.1	2373.4	2648.5	2916.3	3128.9	3289.1	3232.1	3210.4	3175.1	3079.2
47.5°	2185.2	2202.4	2368.0	2697.3	3036.6	3338.9	3623.0	3681.8	3655.6	3646.5	3581.4
50°	2053.1	2068.5	2236.8	2576.1	2970.6	3418.5	3834.7	4001.2	4001.2	4018.4	3998.5
52.5°	1911.9	1924.6	2077.5	2382.4	2757.1	3340.7	3952.3	4228.3	4264.5	4294.4	4341.4
55°	1858.5	1873.9	1989.7	2250.3	2575.2	3118.1	3992.2	4398.4	4465.4	4516.1	4622.8
57.5°	1883.9	1899.3	1981.6	2178.9	2468.4	2891.0	3994.0	4627.4	4756.8	4860.8	5077.1
60°	1993.4	2007.8	2076.6	2244.9	2440.4	2759.8	3917.1	4992.0	5198.3	5393.8	5753.9
62.5°	1942.7	1960.8	2061.2	2354.4	2649.4	2660.2	3639.3	5274.3	5606.4	5895.0	6467.8
65°	1721.0	1740.0	1818.7	2092.9	2662.0	2703.7	3227.6	5279.7	5692.4	6082.3	6700.4
67.5°	1306.6	1313.8	1376.3	1596.1	2129.1	2751.6	2804.1	4654.5	5047.2	5482.4	6120.3
70°	667.8	680.4	698.5	881.3	1370.8	2273.9	2409.6	3430.3	3930.6	4380.3	5146.7
72.5°	231.6	236.2	254.3	336.6	667.8	1492.1	2109.2	2350.8	2653.0	3073.7	3961.4
75°	139.3	139.3	145.7	170.1	304.9	777.3	1876.6	1920.1	1960.8	2101.9	2682.9
77.5°	110.4	112.2	112.2	116.7	169.2	399.0	1425.1	1785.3	1790.7	1804.3	1902.0
80°	78.7	82.3	89.6	93.2	109.5	219.0	799.9	1567.2	1674.0	1725.5	1797.0
82.5°	58.8	62.4	76.0	80.5	85.1	122.2	359.2	1081.3	1275.8	1379.0	1630.5
85°	26.2	30.8	51.6	57.0	59.7	65.1	168.3	307.6	353.8	397.2	523.9
87.5°	4.5	4.5	8.1	11.8	17.2	16.3	37.1	52.5	53.4	62.4	69.7
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-F04-LED-E1-SL2-7030

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	863.2	863.2	863.2	863.2	863.2	863.2	863.2	863.2	863.2	863.2	863.2
2.5°	865.9	865.9	865.9	865.0	865.9	865.9	865.9	865.9	866.8	866.8	866.8
5°	884.9	883.1	884.0	884.0	884.0	883.1	884.9	884.0	884.9	887.6	886.7
7.5°	913.0	914.8	915.7	916.6	916.6	916.6	917.5	919.3	919.3	922.0	921.1
10°	954.6	953.7	954.6	957.3	960.0	960.9	963.7	962.8	964.6	968.2	971.8
12.5°	998.9	1000.8	1003.5	1006.2	1010.7	1011.6	1014.3	1015.2	1020.7	1020.7	1024.3
15°	1048.7	1049.6	1055.0	1055.9	1061.4	1063.2	1067.7	1069.5	1075.9	1076.8	1080.4
17.5°	1094.0	1095.8	1098.5	1101.2	1107.5	1110.2	1113.9	1117.5	1122.9	1124.7	1131.1
20°	1130.1	1133.8	1134.7	1140.1	1145.5	1149.1	1152.8	1156.4	1161.8	1164.5	1170.9
22.5°	1162.7	1166.3	1169.1	1173.6	1177.2	1182.6	1184.4	1190.8	1196.2	1200.7	1206.2
25°	1198.0	1203.4	1206.2	1214.3	1217.0	1222.4	1227.0	1233.3	1240.5	1246.0	1253.2
27.5°	1247.8	1255.9	1259.5	1268.6	1274.9	1277.6	1284.9	1293.9	1300.3	1306.6	1313.8
30°	1316.5	1331.9	1334.6	1341.0	1352.7	1354.5	1363.6	1370.8	1380.8	1387.1	1393.5
32.5°	1423.3	1442.3	1444.1	1451.4	1461.3	1464.9	1472.2	1480.3	1495.7	1498.4	1508.4
35°	1587.1	1595.2	1602.5	1605.2	1613.3	1617.9	1623.3	1632.3	1647.7	1645.9	1656.8
37.5°	1783.4	1786.2	1787.1	1778.0	1779.8	1771.7	1781.6	1783.4	1788.9	1793.4	1804.3
40°	2063.9	2035.9	2032.3	2010.6	1988.8	1977.1	1972.6	1954.5	1959.0	1960.8	1969.8
42.5°	2473.8	2419.5	2374.3	2343.5	2290.2	2263.9	2228.6	2200.6	2178.9	2187.0	2190.6
45°	2993.2	2915.4	2843.0	2748.9	2679.2	2629.5	2567.0	2510.9	2485.6	2473.8	2488.3
47.5°	3511.7	3442.9	3357.9	3261.0	3150.7	3068.3	2964.3	2872.9	2809.5	2786.0	2798.7
50°	3959.6	3896.2	3832.0	3775.0	3646.5	3556.9	3414.9	3296.3	3196.8	3146.1	3132.6
52.5°	4331.5	4298.0	4263.6	4215.7	4112.5	4022.9	3909.8	3793.1	3661.0	3557.8	3522.5
55°	4663.6	4683.5	4666.3	4667.2	4626.5	4569.4	4473.5	4386.7	4294.4	4177.7	4128.8
57.5°	5147.6	5265.3	5288.8	5347.6	5376.6	5407.3	5434.5	5382.9	5359.4	5272.5	5273.4
60°	5910.4	6082.3	6231.6	6367.4	6478.7	6587.2	6701.3	6751.9	6808.0	6834.3	6923.8
62.5°	6722.1	6885.8	7108.4	7290.3	7392.6	7533.7	7657.7	7738.2	7836.8	7941.8	8078.4
65°	6922.9	7120.2	7260.4	7381.7	7483.0	7558.1	7626.0	7721.9	7804.3	7970.7	8131.8
67.5°	6408.1	6565.5	6694.0	6813.5	6892.2	6955.5	7016.1	7079.5	7220.6	7371.7	7533.7
70°	5500.5	5690.5	5903.2	6057.9	6096.8	6151.1	6209.0	6291.4	6361.9	6520.3	6643.3
72.5°	4419.2	4692.5	4872.6	5087.0	5133.2	5215.5	5248.1	5312.3	5325.0	5411.0	5443.5
75°	3080.1	3393.2	3574.1	3731.6	3762.3	3717.1	3735.2	3508.1	3450.2	3403.1	3365.1
77.5°	2033.2	2117.3	2146.3	2120.9	1999.7	1904.7	1803.3	1703.8	1714.7	1634.1	1493.0
80°	1807.9	1826.9	1800.6	1775.3	1705.6	1606.1	1514.7	1421.5	1375.4	1326.5	1254.1
82.5°	1759.0	1832.3	1840.4	1809.7	1754.5	1645.9	1535.5	1397.1	1279.4	1170.9	1060.5
85°	588.1	715.7	772.7	826.1	842.4	861.4	796.3	707.6	600.8	529.3	414.4
87.5°	75.1	93.2	107.7	92.3	107.7	126.7	91.4	102.2	103.2	64.2	48.0
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°	863.2	863.2	863.2	863.2	863.2	863.2	863.2	863.2	863.2	863.2	863.2
2.5°	867.7	866.8	866.8	866.8	865.9	866.8	866.8	866.8	866.8	866.8	865.9
5°	887.6	887.6	890.4	891.3	889.5	888.6	889.5	890.4	890.4	889.5	890.4
7.5°	924.7	925.7	927.5	930.2	928.4	929.3	930.2	929.3	932.0	932.9	932.0
10°	971.8	973.6	978.1	979.0	978.1	981.8	982.7	980.8	982.7	982.7	986.3
12.5°	1026.1	1027.9	1033.3	1035.1	1036.9	1037.9	1040.6	1041.5	1044.2	1046.0	1048.7
15°	1084.9	1086.7	1090.3	1096.7	1098.5	1100.3	1102.1	1107.5	1108.4	1112.1	1114.8
17.5°	1134.7	1137.4	1142.8	1147.3	1150.1	1154.6	1156.4	1162.7	1164.5	1170.0	1174.5
20°	1174.5	1179.0	1183.5	1189.0	1193.5	1198.9	1200.7	1207.1	1210.7	1213.4	1218.8
22.5°	1210.7	1216.1	1222.4	1228.8	1232.4	1239.6	1242.3	1245.1	1253.2	1256.8	1262.3
25°	1257.7	1263.2	1270.4	1278.5	1282.2	1291.2	1293.9	1298.4	1307.5	1311.1	1319.3
27.5°	1322.0	1329.2	1334.6	1342.8	1347.3	1353.6	1360.0	1365.4	1373.5	1379.0	1388.0
30°	1402.5	1407.9	1417.0	1423.3	1430.6	1439.6	1446.8	1452.3	1456.8	1464.9	1474.9
32.5°	1521.0	1521.9	1524.7	1540.0	1547.3	1554.5	1564.5	1569.0	1576.2	1584.4	1595.2
35°	1668.5	1676.7	1683.0	1690.2	1698.4	1706.5	1710.2	1723.7	1730.1	1740.9	1751.8
37.5°	1815.1	1816.0	1830.5	1835.0	1842.3	1850.4	1863.1	1876.6	1892.9	1903.8	1921.0
40°	1972.6	1979.8	1997.9	2006.9	2016.0	2035.9	2045.8	2067.6	2094.7	2110.1	2139.0
42.5°	2200.6	2211.4	2244.0	2258.5	2280.2	2312.8	2333.6	2363.4	2374.3	2411.4	2425.0
45°	2499.2	2532.7	2579.7	2610.5	2649.4	2684.7	2702.8	2716.3	2732.6	2761.6	2758.0
47.5°	2822.2	2865.6	2918.1	2981.5	3006.8	3048.4	3071.9	3098.2	3083.7	3076.5	3069.2
50°	3153.4	3204.0	3273.7	3330.7	3369.6	3395.0	3414.9	3411.3	3380.5	3364.2	3319.0
52.5°	3521.6	3551.5	3617.6	3666.4	3689.9	3695.4	3690.8	3663.7	3634.7	3583.2	3529.8
55°	4086.3	4072.7	4098.9	4121.6	4114.3	4139.6	4074.5	4049.2	3977.7	3910.7	3839.2
57.5°	5233.6	5251.7	5105.1	5039.1	5027.3	5050.8	4935.9	4921.4	4748.6	4726.9	4606.5
60°	6911.2	6999.9	6884.9	6820.7	6647.0	6590.0	6461.5	6408.1	6242.5	6108.6	5939.4
62.5°	8172.5	8253.1	8301.0	8209.6	8108.3	7959.0	7764.4	7549.1	7373.6	7168.2	6989.0
65°	8286.5	8449.4	8559.8	8602.3	8530.8	8367.1	8127.3	7855.8	7587.1	7329.2	7103.0
67.5°	7753.6	7899.3	8070.3	8223.2	8232.2	8125.5	7921.0	7645.0	7334.6	7016.1	6751.0
70°	6837.9	7020.7	7170.0	7331.0	7443.2	7381.7	7279.4	7026.1	6704.0	6456.0	6151.1
72.5°	5561.2	5638.1	5674.3	5832.6	5834.4	5722.2	5649.8	5509.6	5249.9	5074.4	4841.8
75°	3247.5	3078.3	2898.2	2741.7	2614.1	2560.7	2323.6	2283.8	2124.6	2025.9	1881.2
77.5°	1339.2	1188.1	993.5	831.5	671.4	599.0	494.0	447.9	388.2	361.9	344.7
80°	1148.2	1005.3	858.7	718.4	593.6	468.7	364.7	283.2	222.6	189.1	175.5
82.5°	937.4	851.5	749.2	673.2	575.5	482.3	407.2	315.8	236.2	173.7	133.0
85°	338.4	277.8	223.5	205.4	163.8	134.8	113.1	96.8	79.6	63.3	56.1
87.5°	38.0	36.2	20.8	19.9	22.6	16.3	19.0	17.2	14.5	12.7	13.6
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°	863.2	863.2	863.2	863.2	863.2	863.2	863.2	863.2	863.2	863.2	863.2
2.5°	865.9	865.9	866.8	866.8	867.7	868.6	870.5	869.6	869.6	870.5	870.5
5°	890.4	893.1	892.2	892.2	892.2	893.1	894.0	890.4	886.7	883.1	881.3
7.5°	932.9	934.7	936.5	934.7	936.5	935.6	933.8	923.8	912.1	897.6	887.6
10°	988.1	988.1	989.9	989.0	992.6	989.9	984.5	961.8	936.5	905.7	883.1
12.5°	1047.8	1054.1	1051.4	1052.3	1059.6	1052.3	1039.7	1006.2	960.9	911.2	871.4
15°	1118.4	1121.1	1122.9	1120.2	1124.7	1118.4	1095.8	1042.4	976.3	906.7	847.8
17.5°	1176.3	1177.2	1178.1	1179.9	1186.2	1179.0	1140.1	1067.7	979.9	885.8	808.0
20°	1221.5	1226.1	1229.7	1229.7	1238.7	1227.9	1176.3	1080.4	968.2	851.5	757.4
22.5°	1268.6	1272.2	1276.7	1277.6	1289.4	1278.5	1206.2	1077.7	937.4	802.6	698.5
25°	1326.5	1330.1	1333.7	1338.3	1354.5	1339.2	1236.0	1066.8	894.9	744.7	635.2
27.5°	1393.5	1401.6	1404.3	1411.6	1430.6	1407.0	1261.3	1050.5	847.8	677.7	568.2
30°	1483.0	1493.0	1496.6	1506.6	1532.8	1481.2	1275.8	1022.5	788.1	609.9	496.8
32.5°	1603.4	1617.0	1627.8	1638.7	1668.5	1555.4	1277.6	981.8	718.4	533.9	428.0
35°	1760.8	1781.6	1789.8	1797.0	1825.1	1636.0	1269.5	921.1	633.4	456.0	373.7
37.5°	1937.3	1958.1	1963.5	1967.1	1972.6	1704.7	1249.6	828.8	537.5	388.2	330.3
40°	2154.4	2172.5	2179.8	2174.3	2145.4	1758.1	1205.2	721.2	444.3	342.0	303.1
42.5°	2419.5	2446.7	2449.4	2425.0	2329.1	1788.0	1116.6	594.5	371.0	308.6	282.3
45°	2748.0	2746.2	2730.8	2713.6	2529.0	1776.2	992.6	484.1	324.8	282.3	263.3
47.5°	3043.0	3012.2	2988.7	2938.0	2705.5	1707.4	832.5	400.8	296.8	262.4	247.0
50°	3284.6	3228.5	3178.7	3123.5	2836.7	1585.3	673.2	340.2	270.5	245.2	231.6
52.5°	3475.5	3407.6	3349.7	3295.4	2963.4	1449.6	552.0	295.9	245.2	228.0	214.4
55°	3774.1	3706.2	3613.9	3554.2	3157.0	1324.7	473.2	260.6	220.8	209.9	196.4
57.5°	4529.6	4469.9	4359.5	4204.8	3654.7	1277.6	428.9	233.4	200.9	194.5	183.7
60°	5848.9	5752.1	5608.2	5450.8	4666.3	1309.3	393.6	214.4	187.3	181.9	173.7
62.5°	6844.2	6674.1	6511.2	6365.6	5475.2	1308.4	347.5	200.0	177.3	174.6	166.5
65°	6884.9	6712.1	6548.3	6395.4	5493.3	1164.5	293.2	187.3	175.5	174.6	161.1
67.5°	6519.4	6332.1	6173.7	5981.0	5085.2	910.3	235.3	179.2	182.8	181.0	159.3
70°	5922.2	5677.9	5547.6	5357.6	4475.3	637.0	193.6	181.9	198.2	192.7	162.0
72.5°	4648.2	4463.6	4265.4	4133.3	3503.5	402.7	162.9	183.7	204.5	195.4	169.2
75°	1730.1	1779.8	1698.4	1669.4	1779.8	236.2	144.8	171.0	182.8	169.2	153.8
77.5°	349.3	333.9	316.7	313.1	404.5	145.7	133.0	148.4	140.3	124.0	124.9
80°	167.4	162.9	157.4	156.5	150.2	121.2	123.1	126.7	105.9	95.9	102.2
82.5°	111.3	105.0	103.2	99.5	101.3	108.6	116.7	108.6	81.4	76.0	92.3
85°	51.6	49.8	48.9	48.9	54.3	97.7	96.8	79.6	56.1	54.3	92.3
87.5°	12.7	12.7	13.6	12.7	14.5	29.0	25.3	24.4	20.8	23.5	43.4
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: P180552

CATALOG NUMBER: ICS-F04-LED-E1-SL2-7030

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	863.2	863.2	863.2
2.5°	869.6	870.5	869.6
5°	877.7	877.7	877.7
7.5°	877.7	875.0	874.1
10°	865.0	856.9	856.9
12.5°	843.3	829.7	827.9
15°	802.6	784.5	781.8
17.5°	751.0	726.6	722.1
20°	693.1	662.3	656.9
22.5°	629.8	594.5	591.8
25°	567.3	531.1	523.9
27.5°	497.7	462.4	458.8
30°	428.0	397.2	395.4
32.5°	369.2	350.2	346.6
35°	327.6	316.7	312.2
37.5°	300.4	292.3	291.4
40°	279.6	272.4	271.5
42.5°	262.4	256.1	255.2
45°	245.2	239.8	238.0
47.5°	228.0	222.6	221.7
50°	212.6	205.4	204.5
52.5°	198.2	190.9	189.1
55°	184.6	177.3	177.3
57.5°	172.8	165.6	164.7
60°	162.0	154.7	153.8
62.5°	153.8	144.8	143.9
65°	147.5	138.4	136.6
67.5°	143.9	133.0	130.3
70°	150.2	130.3	125.8
72.5°	151.1	127.6	121.2
75°	145.7	120.3	115.8
77.5°	127.6	107.7	103.2
80°	110.4	83.2	76.9
82.5°	105.0	67.9	58.8
85°	81.4	44.3	41.6
87.5°	46.1	24.4	19.9
90°	0.0	0.0	0.0

(END OF REPORT)