

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: P180932

Luminaire Tested: **ICS-F02-LED-E1-SL4-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180932
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F02-LED-E1-SL4-7030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4009.5 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 55
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

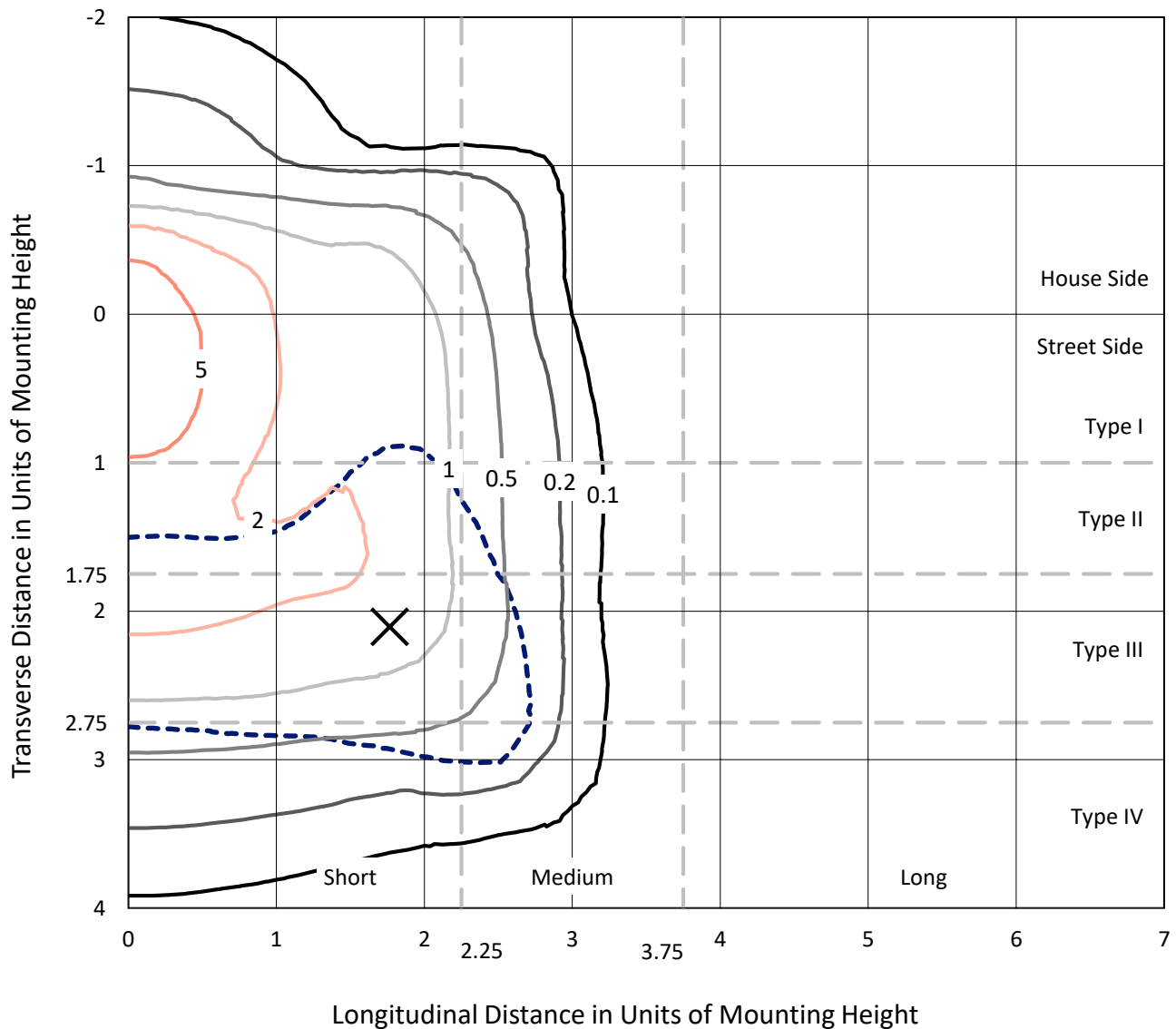


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

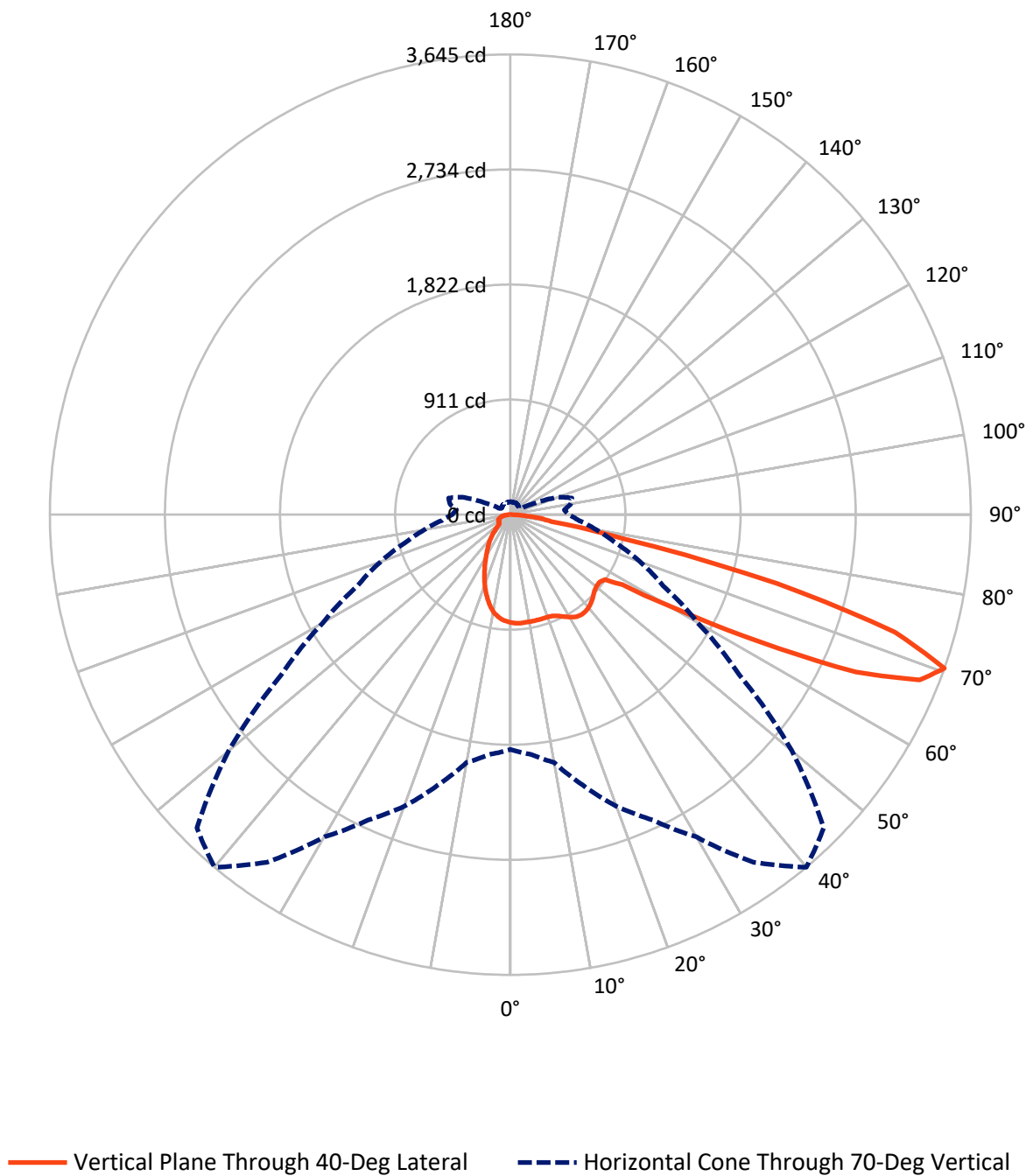


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	832.3	0.0	832.3
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	3177.2	0.0	3177.2
	% Fixture	79.2	0.0	79.2
Total	Lumens	4009.5	0.0	4009.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	2.0
10°-20°	218.8	5.5
20°-30°	323.9	8.1
30°-40°	409.3	10.2
40°-50°	462.9	11.5
50°-60°	658.7	16.4
60°-70°	1226.9	30.6
70°-80°	562.3	14.0
80°-90°	66.7	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°	4009.5	100.0
0°-180°	4009.5	100.0

Coefficient of Utilization



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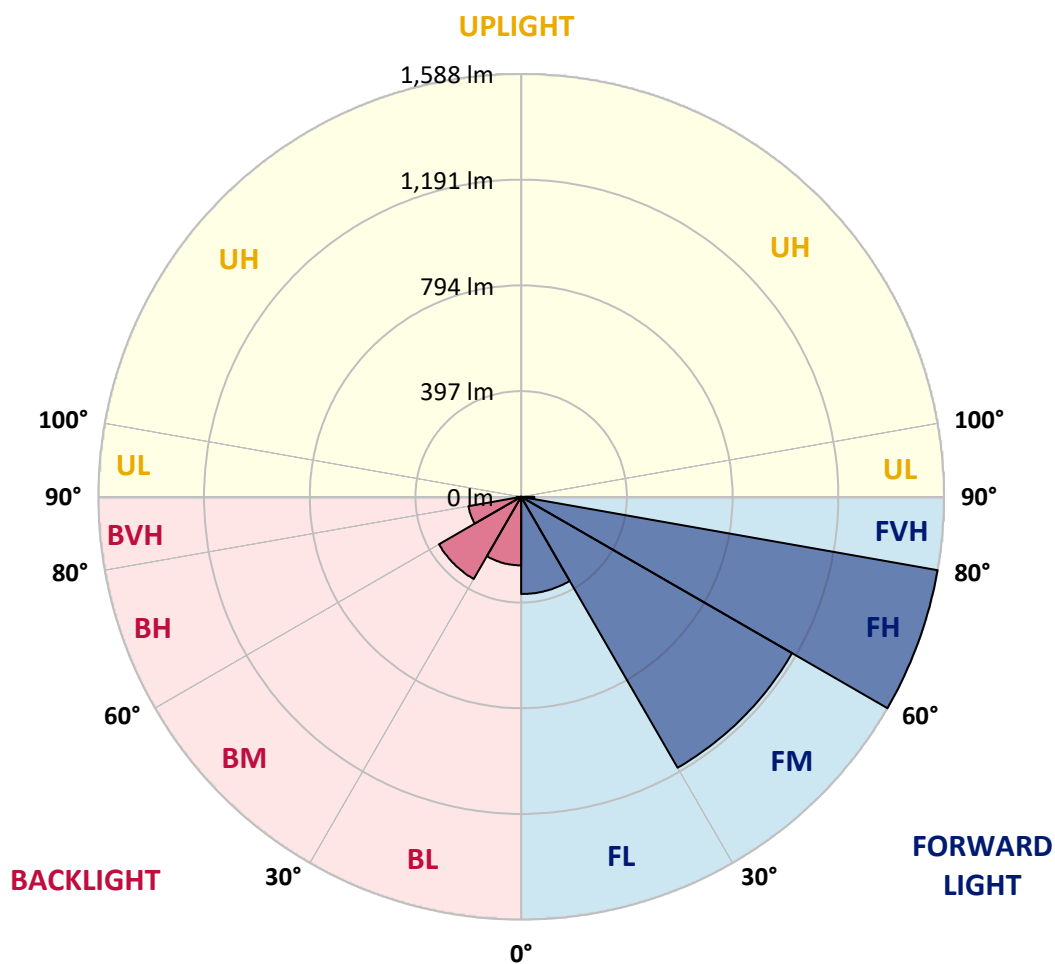
CATALOG NUMBER: ICS-F02-LED-E1-SL4-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	365.1	9.1			
FM	(30°-60°)	1174.6	29.3			
FH	(60°-80°)	1587.9	39.6			G1/1800
FVH	(80°-90°)	49.5	1.2			G1/100
BL	(0°-30°)	257.5	6.4	B1/500		
BM	(30°-60°)	356.3	8.9	B1/1000		
BH	(60°-80°)	201.2	5.0	B1/500		G1/500
BVH	(80°-90°)	17.2	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-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5
2.5°	868.6	870.9	868.2	867.7	867.7	867.3	864.6	864.1	860.5	861.0	861.9
5°	875.0	875.9	874.1	873.6	872.7	870.9	868.6	865.9	863.2	860.5	858.2
7.5°	881.3	880.4	879.1	879.1	877.7	875.0	870.5	866.8	861.0	857.8	853.7
10°	890.4	889.0	887.2	886.3	884.0	880.0	873.6	868.6	861.4	855.1	848.3
12.5°	899.0	898.5	895.8	894.4	890.8	886.7	879.1	871.4	861.9	851.9	842.9
15°	914.3	912.5	909.8	907.1	901.2	895.8	884.0	875.0	861.4	848.3	834.3
17.5°	941.0	937.9	935.2	929.3	922.0	912.5	895.3	880.0	861.4	842.4	826.6
20°	989.9	983.1	979.5	971.8	959.1	941.9	915.2	890.4	862.8	838.3	817.1
22.5°	1045.1	1040.6	1035.6	1030.6	1010.7	985.8	949.6	912.5	870.9	836.5	809.4
25°	1107.1	1101.2	1098.5	1089.9	1071.3	1042.8	993.5	941.9	889.5	843.8	809.4
27.5°	1162.3	1160.5	1160.0	1150.1	1132.4	1098.9	1040.6	978.6	914.8	858.7	816.2
30°	1212.5	1210.7	1209.8	1204.3	1184.0	1144.2	1080.8	1011.2	942.4	879.5	828.8
32.5°	1265.9	1260.0	1257.3	1246.9	1223.8	1177.2	1104.8	1032.4	964.1	899.9	842.9
35°	1309.3	1304.3	1298.9	1284.0	1251.4	1196.2	1115.2	1039.7	972.7	911.2	850.1
37.5°	1341.0	1336.0	1328.3	1309.3	1269.0	1202.5	1114.8	1037.4	969.5	909.4	851.5
40°	1355.0	1350.0	1341.9	1317.9	1272.2	1198.9	1106.2	1027.0	960.0	899.9	846.0
42.5°	1349.6	1346.0	1335.5	1312.5	1262.3	1182.6	1089.0	1007.5	941.9	884.5	833.8
45°	1328.8	1326.0	1316.1	1291.7	1239.6	1156.4	1063.6	983.1	920.2	865.5	817.5
47.5°	1297.5	1296.6	1286.7	1262.7	1211.1	1130.1	1037.4	959.1	898.5	846.9	804.0
50°	1263.2	1258.6	1253.7	1231.5	1184.4	1107.5	1018.4	944.2	886.3	840.1	798.1
52.5°	1241.4	1240.1	1235.6	1215.7	1170.4	1094.4	1009.8	938.8	885.4	838.8	794.9
55°	1434.2	1437.3	1395.7	1309.3	1233.3	1130.6	1035.6	966.4	907.6	860.5	828.4
57.5°	2121.4	2107.4	2035.9	1864.4	1670.8	1415.2	1231.0	1119.3	1046.4	1054.6	1070.9
60°	2471.6	2468.9	2455.7	2389.2	2260.3	2065.8	1849.9	1602.5	1523.8	1532.3	1538.7
62.5°	2628.1	2632.2	2642.1	2617.3	2583.3	2526.8	2419.1	2319.6	2214.1	2174.8	2069.4
65°	2700.5	2707.7	2730.4	2744.4	2757.5	2767.5	2810.0	2926.7	3003.6	2859.8	2525.0
67.5°	2550.7	2585.6	2660.2	2733.1	2798.2	2891.0	3034.8	3305.8	3494.5	3317.6	2832.2
70°	1859.4	1907.0	1992.5	2217.8	2458.5	2668.8	2947.5	3360.1	3644.7	3508.1	2908.2
72.5°	1165.9	1179.0	1217.0	1299.8	1478.5	1748.6	2235.9	2854.8	3183.2	3074.2	2458.0
75°	739.7	744.2	742.9	761.9	792.2	851.0	1043.7	1686.2	2180.7	2010.6	1369.9
77.5°	440.7	447.4	450.2	456.0	470.5	491.3	507.2	573.7	914.3	887.6	497.2
80°	369.2	374.6	370.1	368.7	359.7	353.3	361.0	353.3	328.0	315.8	290.9
82.5°	195.4	195.0	193.6	206.8	233.4	254.3	270.1	266.5	241.1	205.4	174.2
85°	107.2	110.8	110.8	115.4	111.3	111.7	115.4	121.7	112.7	94.1	76.9
87.5°	9.0	14.0	11.3	14.0	19.0	13.6	13.1	13.1	11.3	8.1	7.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5
2.5°	859.6	858.7	856.9	855.5	855.5	853.3	851.9	851.0	850.6	848.7	848.7
5°	856.9	853.7	850.6	848.3	846.9	844.7	841.1	839.2	837.0	835.2	834.3
7.5°	851.0	845.1	840.1	836.5	832.0	828.4	823.9	819.8	815.7	813.9	813.0
10°	842.0	834.3	826.6	819.8	813.5	807.1	801.2	795.4	790.4	786.8	783.1
12.5°	833.4	821.6	811.6	801.7	791.7	784.0	775.9	767.3	760.1	753.3	751.5
15°	821.6	808.0	795.4	783.1	770.9	758.3	748.3	738.8	727.0	719.3	713.5
17.5°	810.7	794.5	779.1	764.6	749.7	736.5	721.6	708.9	697.2	685.4	676.8
20°	799.0	781.3	765.0	748.8	732.5	715.7	698.5	682.3	667.8	653.7	639.7
22.5°	788.6	770.5	754.6	737.0	718.9	699.9	680.0	659.6	642.9	624.8	608.5
25°	782.2	762.3	746.0	728.8	708.9	688.1	665.5	641.5	621.2	600.4	580.9
27.5°	782.2	756.4	739.7	722.5	702.2	680.0	655.1	628.9	605.8	582.7	558.7
30°	789.0	757.4	734.7	716.6	695.8	671.8	644.2	616.6	591.3	564.2	541.1
32.5°	795.4	759.2	731.1	708.0	684.1	660.5	632.5	603.1	575.0	549.2	524.8
35°	799.4	759.2	724.3	694.9	667.8	644.7	617.1	587.7	559.2	533.9	511.2
37.5°	799.9	755.5	713.5	680.0	651.5	627.5	601.3	573.7	546.5	523.0	504.0
40°	795.4	748.3	702.6	664.2	634.3	609.9	585.9	561.0	536.6	517.1	500.8
42.5°	787.2	740.6	692.2	651.5	620.3	594.9	572.8	551.5	530.2	513.5	499.9
45°	775.0	730.2	682.7	643.8	613.0	586.3	564.6	547.0	528.9	514.9	501.3
47.5°	764.1	726.6	685.9	648.8	616.6	589.1	566.9	552.0	537.9	528.4	509.9
50°	761.9	724.8	687.2	652.8	620.3	592.2	572.8	565.1	561.0	555.1	526.6
52.5°	755.5	724.3	697.2	678.2	657.4	644.2	623.9	631.1	626.6	605.8	554.2
55°	822.0	831.1	856.4	892.6	926.1	933.8	931.5	922.9	877.2	754.6	620.7
57.5°	1130.1	1181.3	1229.2	1250.5	1247.8	1223.8	1206.6	1171.8	1105.7	956.4	751.9
60°	1558.1	1566.3	1540.9	1503.4	1440.1	1387.1	1330.6	1265.4	1169.5	1023.4	832.5
62.5°	1952.2	1842.7	1730.1	1624.2	1527.8	1443.7	1365.0	1274.0	1149.1	996.7	822.0
65°	2230.4	1998.8	1821.0	1669.0	1532.8	1415.2	1317.0	1198.9	1058.2	920.7	761.9
67.5°	2373.9	2018.7	1745.9	1534.2	1341.0	1178.1	1047.4	932.4	827.9	767.8	666.9
70°	2213.7	1713.3	1333.3	1094.0	862.8	691.8	546.5	458.8	428.4	485.4	504.9
72.5°	1649.5	1115.2	793.1	613.5	470.1	374.6	287.3	225.8	183.7	192.7	250.2
75°	780.0	481.4	340.2	258.8	205.9	170.6	139.3	127.6	106.8	88.7	83.2
77.5°	303.6	221.2	182.8	133.9	95.0	76.5	65.1	62.9	64.2	62.4	61.5
80°	231.2	156.5	98.2	71.9	62.0	54.7	48.4	46.6	47.5	49.8	52.0
82.5°	128.9	80.5	59.7	52.0	46.6	39.8	36.2	33.5	33.9	36.6	41.6
85°	49.8	38.9	35.7	34.4	32.1	25.8	22.2	22.6	25.8	30.8	30.8
87.5°	5.4	5.4	7.2	5.4	5.4	5.4	5.0	5.9	6.3	8.1	9.5
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5
2.5°	847.8	847.8	847.8	846.9	847.4	845.6	845.6	844.2	846.5	845.1	844.7
5°	834.7	834.3	832.5	832.5	832.5	832.5	833.8	830.2	832.9	832.9	831.5
7.5°	812.5	812.5	807.6	810.3	809.4	810.7	812.5	810.7	813.5	815.3	813.9
10°	781.8	781.8	777.7	780.9	779.5	782.7	785.9	784.0	785.9	788.6	789.5
12.5°	747.9	746.0	742.4	743.8	743.8	745.6	746.9	749.2	751.5	755.1	756.9
15°	708.5	705.8	701.3	701.3	698.5	699.4	702.2	703.1	707.6	712.6	718.4
17.5°	668.2	661.4	656.5	650.6	646.1	649.7	652.8	655.1	658.7	666.4	670.5
20°	630.2	616.6	607.1	599.5	594.5	596.7	600.8	603.5	606.7	608.5	609.9
22.5°	592.7	577.3	564.2	554.7	546.5	548.8	547.0	545.6	547.9	542.0	541.5
25°	560.1	542.0	524.4	513.0	503.1	499.9	490.4	488.2	481.8	476.9	473.2
27.5°	536.6	513.0	493.6	480.5	464.6	452.9	440.7	428.4	421.7	413.5	409.4
30°	518.0	493.1	470.1	447.9	427.1	409.0	392.7	376.9	366.0	354.2	346.6
32.5°	500.8	477.8	449.7	419.4	391.3	371.0	349.7	331.6	314.4	299.1	287.7
35°	489.1	463.3	427.5	390.4	358.8	334.8	312.2	286.4	265.6	245.7	233.4
37.5°	482.7	451.1	407.2	366.0	330.7	303.6	275.5	245.7	220.3	201.8	183.2
40°	477.8	438.8	389.1	344.3	307.2	274.6	242.0	206.8	178.7	159.3	144.8
42.5°	472.3	425.3	373.2	327.1	285.9	247.9	208.6	171.0	144.3	130.7	124.4
45°	466.4	413.5	358.3	310.8	265.1	219.0	173.7	138.9	123.1	118.5	118.5
47.5°	465.1	405.8	347.5	295.0	241.6	185.5	141.6	119.9	115.4	116.3	118.1
50°	470.5	403.6	338.0	276.4	210.4	150.2	119.9	112.7	113.6	116.3	119.0
52.5°	483.6	405.4	328.0	250.6	173.3	124.0	110.8	110.4	113.1	117.2	119.9
55°	505.8	405.4	309.0	212.2	138.4	111.3	107.7	109.5	113.1	116.7	119.0
57.5°	553.3	401.3	275.5	169.7	115.8	106.8	106.8	109.0	112.2	115.8	117.6
60°	609.9	395.9	228.5	131.2	104.5	103.2	106.3	109.0	111.7	114.9	116.7
62.5°	613.5	381.8	181.0	108.6	98.6	100.9	105.9	109.5	110.4	112.7	114.9
65°	563.7	333.0	143.9	97.3	95.9	99.5	104.5	107.2	107.7	108.6	110.8
67.5°	493.6	271.5	116.3	91.8	93.2	97.3	100.0	102.2	103.6	105.9	106.3
70°	405.4	218.1	99.5	86.4	87.8	92.3	94.6	96.8	99.5	102.2	100.9
72.5°	287.3	169.7	87.3	80.5	82.3	86.4	89.1	90.9	93.2	95.9	94.1
75°	122.2	118.5	75.6	72.8	75.6	78.3	81.0	83.7	86.0	87.3	87.3
77.5°	62.4	69.7	65.1	65.1	67.0	69.7	71.9	74.6	76.0	77.4	79.2
80°	52.9	53.8	54.7	56.6	58.4	61.1	63.3	65.6	66.1	66.5	67.4
82.5°	43.9	45.7	46.6	49.3	50.7	51.6	52.9	52.9	53.8	53.8	52.5
85°	31.7	33.9	35.3	35.7	35.3	35.7	36.2	37.1	39.4	39.4	37.6
87.5°	9.0	8.6	10.9	11.3	12.2	14.0	15.8	19.0	19.9	20.8	20.8
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-F02-LED-E1-SL4-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	855.5	855.5	855.5	855.5
2.5°	844.2	845.1	843.3	843.8
5°	831.5	833.4	831.1	833.8
7.5°	815.3	818.0	817.5	817.1
10°	791.7	795.4	795.4	796.7
12.5°	761.9	764.1	765.9	766.9
15°	721.6	725.7	727.9	727.9
17.5°	673.2	675.9	677.3	675.5
20°	611.7	610.8	611.2	606.7
22.5°	540.6	542.0	537.9	538.8
25°	471.0	468.7	470.5	467.8
27.5°	403.6	404.0	399.0	401.3
30°	339.3	337.1	330.7	333.9
32.5°	277.3	271.5	264.7	260.6
35°	219.0	209.9	206.8	205.4
37.5°	171.9	162.0	158.8	155.2
40°	136.6	133.0	131.7	132.6
42.5°	122.6	122.6	123.5	124.0
45°	119.0	120.3	121.7	122.2
47.5°	119.4	120.8	122.6	123.1
50°	120.3	121.7	123.1	123.5
52.5°	120.8	120.8	121.7	122.2
55°	119.9	119.4	119.9	120.3
57.5°	118.1	117.2	117.6	119.0
60°	117.2	115.8	116.7	117.6
62.5°	114.9	114.5	115.4	115.8
65°	109.9	110.4	111.7	111.7
67.5°	105.4	105.9	106.3	106.8
70°	100.0	100.4	101.3	101.8
72.5°	93.7	95.5	96.8	98.6
75°	88.7	90.5	93.2	95.0
77.5°	80.1	81.4	84.6	86.9
80°	67.9	67.4	67.9	69.2
82.5°	52.0	52.0	51.6	51.1
85°	36.6	36.2	34.8	34.8
87.5°	19.9	19.5	19.0	18.1
90°	0.0	0.0	0.0	0.0

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