

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: P180851

Luminaire Tested: **ICS-F04-LED-E1-SL4-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180851
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-F04-LED-E1-SL4-HSS-8030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5104.1 lumens
Efficiency: N/A
Efficacy: 49.9 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

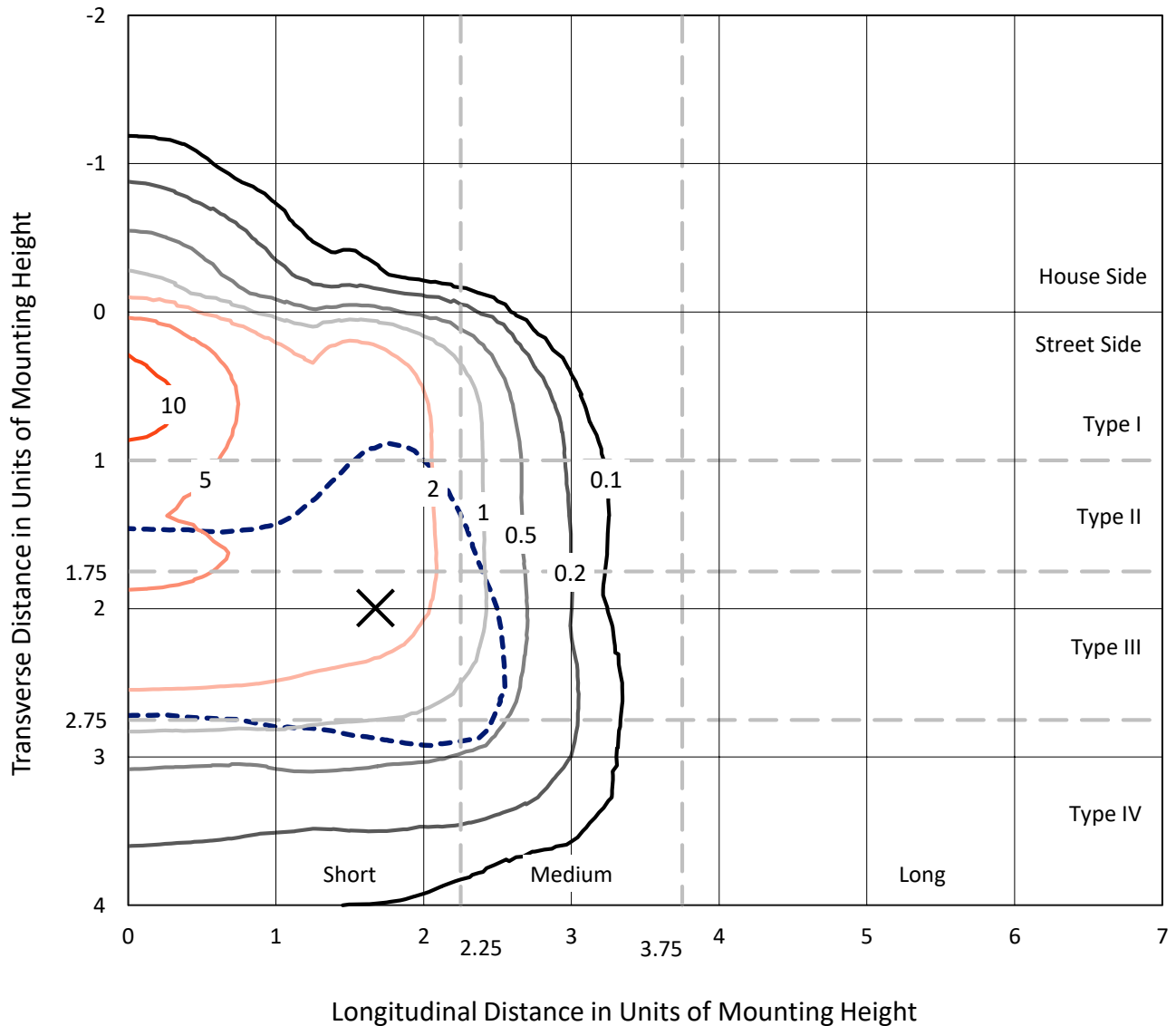
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

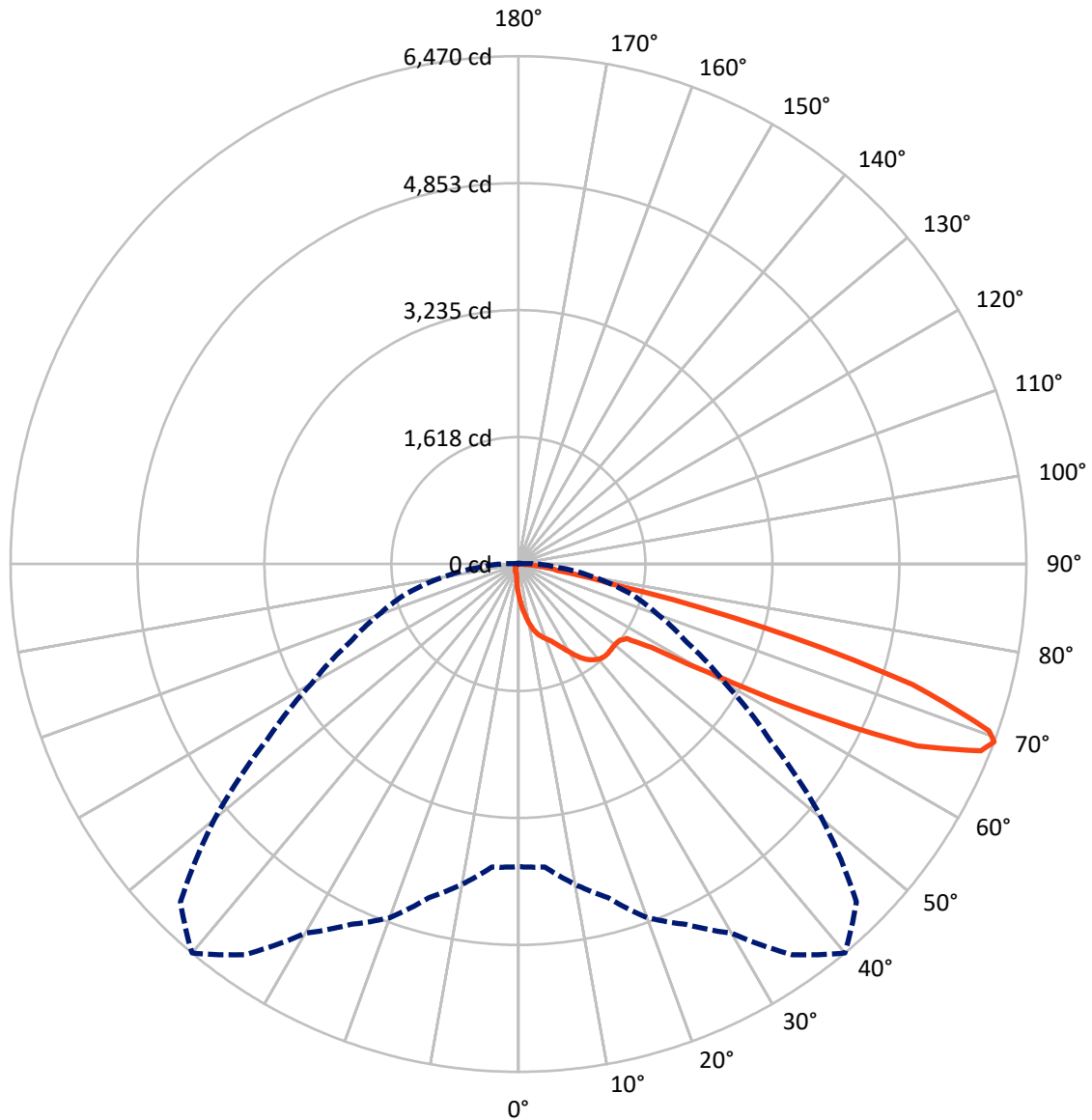
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	152.0	0.0	152.0
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	4952.1	0.0	4952.1
	% Fixture	97.0	0.0	97.0
Total	Lumens	5104.1	0.0	5104.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.6	0.8
10°-20°	136.6	2.7
20°-30°	261.4	5.1
30°-40°	434.8	8.5
40°-50°	588.3	11.5
50°-60°	920.1	18.0
60°-70°	1891.7	37.1
70°-80°	761.2	14.9
80°-90°	70.4	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°	5104.1	100.0
0°-180°	5104.1	100.0



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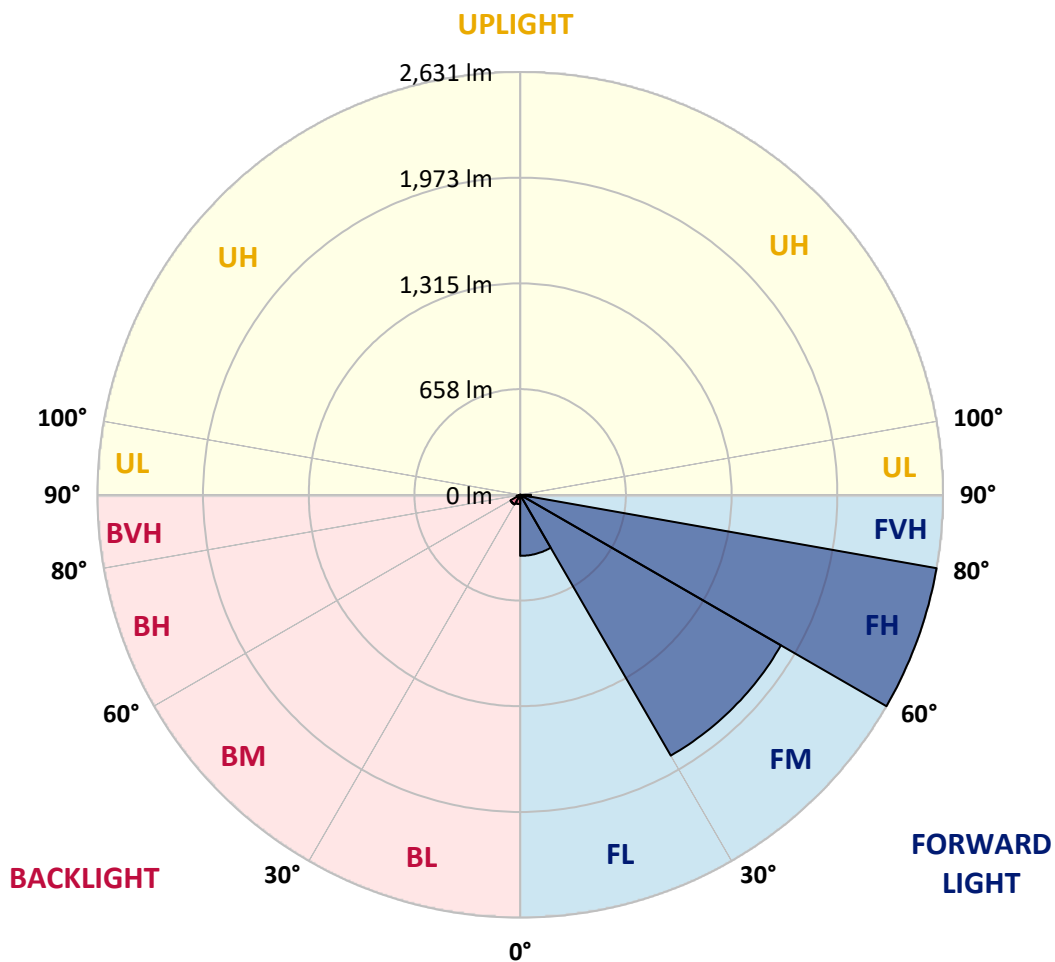
CATALOG NUMBER: ICS-F04-LED-E1-SL4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	379.8	7.4			
FM	(30°-60°)	1873.8	36.7			
FH	(60°-80°)	2630.7	51.5			G2/5000
FVH	(80°-90°)	67.8	1.3			G1/100
BL	(0°-30°)	57.8	1.1	B0/110		
BM	(30°-60°)	69.4	1.4	B0/220		
BH	(60°-80°)	22.2	0.4	B0/110		G0/110
BVH	(80°-90°)	2.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	385.5	385.5	385.5	385.5	385.5	385.5	385.5	385.5	385.5	385.5	385.5
2.5°	514.2	508.4	501.7	501.7	493.3	493.3	488.3	474.9	473.2	465.7	458.2
5°	656.4	651.3	643.0	635.5	628.8	617.1	608.7	592.8	575.3	558.5	543.5
7.5°	795.2	792.6	777.6	775.1	764.2	745.0	728.3	704.9	674.8	651.3	623.8
10°	923.9	918.1	914.7	900.5	884.6	863.7	837.8	809.4	774.3	737.5	698.2
12.5°	1025.9	1022.6	1007.5	1001.7	985.0	964.1	931.4	894.7	859.5	811.9	765.9
15°	1102.0	1096.2	1086.1	1076.9	1056.9	1038.5	1008.4	968.2	925.6	873.8	818.6
17.5°	1165.6	1154.7	1152.2	1138.0	1117.1	1095.3	1061.9	1025.1	974.9	923.1	862.9
20°	1250.8	1235.8	1230.8	1209.9	1185.6	1155.5	1117.1	1071.1	1018.4	961.5	899.7
22.5°	1351.2	1340.3	1329.4	1311.0	1280.1	1237.5	1181.4	1131.3	1064.4	1001.7	934.8
25°	1493.3	1484.1	1466.6	1441.5	1403.0	1352.0	1284.3	1210.7	1132.1	1051.8	973.3
27.5°	1631.3	1622.9	1610.4	1591.2	1547.7	1491.7	1408.0	1314.4	1214.9	1117.9	1030.9
30°	1760.9	1753.4	1740.8	1721.6	1683.1	1627.9	1533.5	1433.1	1309.4	1196.5	1092.0
32.5°	1900.5	1898.0	1883.8	1856.2	1822.8	1748.3	1645.5	1537.6	1412.2	1281.8	1159.7
35°	2058.5	2039.3	2025.9	1998.3	1941.5	1862.1	1741.7	1623.8	1491.7	1357.9	1221.6
37.5°	2192.3	2173.9	2157.2	2122.1	2052.7	1951.5	1815.2	1685.6	1549.3	1413.1	1274.3
40°	2290.2	2281.0	2260.9	2214.9	2137.1	2016.7	1869.6	1728.3	1591.2	1454.0	1316.9
42.5°	2362.9	2348.7	2326.1	2278.4	2186.5	2049.4	1891.3	1745.8	1610.4	1479.1	1344.5
45°	2389.7	2377.9	2357.0	2305.2	2205.7	2058.5	1890.5	1740.8	1611.2	1486.6	1362.9
47.5°	2373.8	2362.1	2343.7	2295.2	2197.3	2047.7	1875.4	1726.6	1602.9	1489.1	1379.6
50°	2321.1	2314.4	2300.2	2259.2	2171.4	2026.8	1862.1	1719.1	1601.2	1501.7	1403.0
52.5°	2316.1	2311.9	2294.3	2253.4	2163.9	2020.1	1860.4	1723.3	1615.4	1517.6	1419.7
55°	2830.3	2770.9	2638.0	2525.1	2339.5	2118.7	1944.8	1791.0	1675.6	1580.3	1511.7
57.5°	4022.6	3934.0	3759.2	3544.3	3117.9	2699.0	2363.7	2121.3	2001.7	1958.2	1984.1
60°	4581.1	4565.3	4537.7	4435.7	4217.4	3857.1	3455.7	3021.8	2847.9	2832.8	2885.5
62.5°	4846.2	4836.2	4844.5	4832.0	4764.3	4658.9	4543.5	4356.2	4184.0	4072.8	3837.0
65°	4968.3	4975.0	5022.6	5060.2	5068.6	5096.2	5180.6	5413.9	5584.5	5297.7	4643.0
67.5°	4658.1	4697.4	4806.9	4944.0	5104.6	5260.1	5510.9	6002.6	6352.9	6015.9	5086.2
69°	3856.2	3875.5	4143.0	4401.4	4793.5	5067.8	5431.5	6076.1	6470.0	6089.5	5051.1
70°	3036.0	3053.5	3340.3	3691.5	4354.6	4707.4	5183.2	5951.6	6360.4	5991.7	4870.4
72.5°	1369.6	1344.5	1445.7	1633.8	2354.5	2914.7	3746.7	4822.0	5247.5	4800.2	3643.8
75°	956.5	945.7	956.5	957.4	1069.4	1379.6	1740.8	2613.7	3232.5	2789.3	1740.8
77.5°	740.8	733.3	725.8	717.4	730.8	818.6	853.7	927.3	1204.0	1138.8	663.9
80°	586.1	579.4	597.8	592.0	592.0	602.0	595.3	567.7	515.9	478.3	428.1
82.5°	272.6	274.3	274.3	297.7	358.7	418.9	438.1	410.5	364.6	310.2	250.0
85°	25.9	29.3	49.3	76.1	151.3	170.6	171.4	142.1	142.1	112.0	90.3
87.5°	0.0	0.8	0.8	0.8	7.5	20.9	17.6	5.0	2.5	2.5	4.2
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°	385.5	385.5	385.5	385.5	385.5	385.5	385.5	385.5	385.5	385.5	385.5
2.5°	444.8	442.3	432.3	422.2	413.0	403.0	393.8	384.6	374.6	367.1	357.9
5°	520.1	501.7	480.8	460.7	440.6	419.7	398.0	378.8	358.7	340.3	322.7
7.5°	596.2	560.2	531.8	495.8	463.2	430.6	400.5	369.6	341.1	314.4	289.3
10°	660.5	617.1	572.7	526.8	479.9	436.5	394.7	357.9	320.2	287.6	256.7
12.5°	713.2	658.0	603.7	546.0	493.3	438.1	386.3	342.0	297.7	260.9	229.1
15°	760.9	697.3	632.1	565.2	498.3	435.6	377.9	322.7	277.6	235.8	199.8
17.5°	799.3	726.6	653.0	577.8	505.9	432.3	367.1	309.4	256.7	213.2	178.1
20°	832.8	756.7	677.3	592.8	510.9	431.4	357.9	292.6	238.3	192.3	158.0
22.5°	863.7	787.6	702.3	612.0	518.4	430.6	349.5	280.1	222.4	176.4	142.1
25°	898.8	818.6	729.1	632.1	531.8	434.0	344.5	270.1	208.2	161.4	129.6
27.5°	938.1	853.7	760.9	657.2	549.3	440.6	342.8	259.2	195.7	147.2	119.6
30°	993.3	895.5	792.6	682.3	565.2	448.2	341.1	252.5	183.1	136.3	109.5
32.5°	1041.8	936.5	827.8	708.2	582.8	455.7	340.3	243.3	171.4	125.4	102.0
35°	1092.8	974.1	857.9	733.3	597.8	464.1	339.5	236.6	160.5	114.5	94.5
37.5°	1137.1	1005.9	881.3	755.0	614.6	471.6	340.3	230.8	150.5	105.4	87.8
40°	1174.8	1038.5	907.2	775.1	632.1	483.3	341.1	224.9	140.5	97.0	81.9
42.5°	1208.2	1069.4	934.8	797.7	652.2	496.7	346.2	219.9	132.1	89.5	76.1
45°	1234.1	1097.8	964.9	829.4	684.8	518.4	355.4	216.6	123.7	82.8	71.1
47.5°	1260.9	1139.6	1015.9	879.6	732.4	552.7	371.2	215.7	117.1	77.8	66.9
50°	1297.7	1181.4	1061.0	930.6	775.9	587.8	390.5	216.6	108.7	72.7	62.7
52.5°	1324.4	1224.1	1119.6	1019.2	879.6	694.8	464.9	231.6	104.5	68.6	57.7
55°	1482.5	1464.9	1467.4	1484.1	1376.3	1182.3	777.6	334.5	122.9	77.8	56.9
57.5°	2090.3	2152.2	2188.1	2187.3	2009.2	1666.4	1044.3	429.8	137.1	90.3	67.7
60°	2889.7	2842.8	2776.8	2613.7	2377.1	1902.2	1168.1	462.4	118.7	71.9	61.9
62.5°	3596.2	3321.9	3078.6	2814.4	2504.2	1984.1	1193.2	459.9	103.7	54.3	43.5
65°	4036.8	3543.5	3150.5	2819.4	2454.0	1915.6	1128.8	422.2	87.8	44.3	36.0
67.5°	4142.2	3423.9	2867.9	2445.7	2050.2	1490.8	828.6	317.7	68.6	36.8	31.8
69°	3912.2	3043.5	2376.3	1897.2	1491.7	989.1	512.5	200.7	52.7	33.4	29.3
70°	3598.7	2647.2	1935.6	1522.6	1104.5	694.8	358.7	141.3	42.6	30.9	26.8
72.5°	2315.2	1390.5	951.5	662.2	455.7	276.8	140.5	63.5	32.6	25.9	21.7
75°	898.0	514.2	372.9	283.4	221.6	153.8	85.3	41.0	27.6	21.7	16.7
77.5°	442.3	338.6	276.8	189.8	110.4	68.6	46.0	31.8	22.6	15.9	10.9
80°	349.5	232.4	138.8	86.1	65.2	49.3	35.1	25.9	16.7	10.0	7.5
82.5°	178.9	97.8	71.9	58.5	48.5	38.5	28.4	18.4	10.9	6.7	5.9
85°	56.0	41.0	36.8	36.0	33.4	27.6	20.1	11.7	6.7	4.2	4.2
87.5°	4.2	5.9	7.5	5.9	6.7	5.9	7.5	5.0	3.3	3.3	2.5
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°	385.5	385.5	385.5	385.5	385.5	385.5	385.5	385.5	385.5	385.5	385.5
2.5°	351.2	341.1	331.9	326.1	315.2	311.0	306.9	305.2	297.7	299.3	292.6
5°	306.9	289.3	275.9	262.5	250.0	240.8	233.3	224.1	216.6	213.2	206.5
7.5°	266.7	244.1	226.6	212.4	197.3	185.6	175.6	168.9	162.2	155.5	152.2
10°	231.6	207.4	187.3	173.1	158.9	148.8	141.3	136.3	132.1	129.6	128.8
12.5°	199.0	175.6	157.2	144.7	133.8	128.8	125.4	122.9	122.1	121.2	121.2
15°	173.9	150.5	136.3	127.1	122.1	119.6	118.7	117.1	115.4	114.5	114.5
17.5°	150.5	132.9	122.9	117.9	115.4	113.7	112.0	110.4	108.7	107.9	107.9
20°	134.6	120.4	115.4	112.0	109.5	107.9	105.4	103.7	102.8	102.0	101.2
22.5°	122.1	112.9	109.5	107.0	103.7	101.2	99.5	97.8	96.2	95.3	94.5
25°	112.9	107.0	104.5	101.2	97.8	95.3	92.8	90.3	88.6	87.8	86.1
27.5°	106.2	102.0	98.7	94.5	91.1	88.6	86.1	83.6	81.9	80.3	79.4
30°	100.3	96.2	92.0	88.6	84.4	81.9	78.6	76.1	75.3	73.6	71.9
32.5°	94.5	90.3	86.1	81.9	77.8	74.4	72.7	69.4	67.7	66.9	65.2
35°	87.8	83.6	78.6	75.3	71.1	67.7	65.2	62.7	61.0	59.4	58.5
37.5°	81.9	76.9	71.9	67.7	64.4	61.0	58.5	56.0	54.3	52.7	51.8
40°	75.3	70.2	65.2	61.0	57.7	55.2	52.7	50.2	48.5	47.7	47.7
42.5°	69.4	63.5	58.5	55.2	52.7	49.3	46.8	44.3	43.5	42.6	43.5
45°	63.5	57.7	53.5	50.2	47.7	44.3	41.8	40.1	39.3	40.1	41.0
47.5°	58.5	52.7	48.5	46.0	43.5	41.0	38.5	36.8	36.8	38.5	40.1
50°	53.5	47.7	44.3	42.6	40.1	37.6	34.3	33.4	34.3	36.0	37.6
52.5°	48.5	41.8	39.3	38.5	36.0	33.4	30.9	30.1	30.9	32.6	31.8
55°	43.5	36.8	36.0	35.1	32.6	29.3	26.8	26.8	26.8	25.9	24.2
57.5°	41.8	32.6	31.8	30.9	28.4	25.1	23.4	21.7	20.9	18.4	17.6
60°	43.5	29.3	29.3	27.6	25.1	21.7	19.2	16.7	15.1	13.4	13.4
62.5°	35.1	26.8	25.9	24.2	20.9	17.6	15.1	12.5	11.7	10.9	10.9
65°	28.4	24.2	22.6	20.1	17.6	14.2	11.7	10.0	9.2	9.2	10.0
67.5°	25.9	21.7	19.2	16.7	14.2	10.9	9.2	8.4	8.4	9.2	9.2
69°	24.2	20.1	17.6	15.1	12.5	10.0	8.4	8.4	8.4	8.4	9.2
70°	22.6	19.2	16.7	14.2	10.9	8.4	7.5	7.5	8.4	8.4	9.2
72.5°	17.6	15.1	14.2	11.7	8.4	7.5	6.7	7.5	7.5	8.4	8.4
75°	13.4	10.9	10.9	9.2	6.7	5.9	5.9	6.7	6.7	7.5	7.5
77.5°	9.2	7.5	7.5	6.7	5.9	5.0	5.0	5.9	6.7	6.7	7.5
80°	6.7	5.9	5.0	5.9	5.0	4.2	5.0	5.9	5.9	6.7	6.7
82.5°	5.0	5.0	5.0	5.0	4.2	4.2	5.0	5.0	5.9	6.7	6.7
85°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.0	5.0	5.9	5.9
87.5°	2.5	2.5	2.5	3.3	3.3	4.2	4.2	4.2	4.2	5.0	5.0
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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CATALOG NUMBER: ICS-F04-LED-E1-SL4-HSS-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	385.5	385.5	385.5	385.5
2.5°	291.0	290.1	286.8	287.6
5°	204.0	199.0	202.3	201.5
7.5°	149.7	148.8	148.0	149.7
10°	127.9	127.9	127.1	127.9
12.5°	120.4	120.4	120.4	120.4
15°	114.5	114.5	113.7	113.7
17.5°	107.9	107.9	107.9	107.0
20°	101.2	100.3	100.3	100.3
22.5°	93.6	92.8	92.8	92.8
25°	86.1	85.3	85.3	85.3
27.5°	78.6	77.8	76.9	76.9
30°	71.1	70.2	69.4	69.4
32.5°	63.5	62.7	61.9	61.9
35°	56.9	56.9	56.0	55.2
37.5°	51.0	51.0	51.0	51.0
40°	46.8	47.7	47.7	47.7
42.5°	44.3	45.2	46.0	46.8
45°	42.6	44.3	45.2	45.2
47.5°	41.8	42.6	43.5	43.5
50°	38.5	37.6	37.6	37.6
52.5°	30.9	29.3	28.4	27.6
55°	22.6	21.7	20.1	20.1
57.5°	15.9	15.9	15.1	15.1
60°	12.5	12.5	11.7	12.5
62.5°	10.9	10.9	10.9	10.9
65°	10.0	10.0	10.0	10.0
67.5°	10.0	10.0	10.0	10.0
69°	9.2	9.2	9.2	9.2
70°	9.2	9.2	9.2	9.2
72.5°	8.4	8.4	8.4	8.4
75°	7.5	8.4	8.4	8.4
77.5°	7.5	7.5	7.5	7.5
80°	6.7	6.7	7.5	7.5
82.5°	6.7	6.7	6.7	6.7
85°	5.9	5.9	6.7	6.7
87.5°	5.0	5.0	5.9	5.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)