

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: P180652

Luminaire Tested: **ICS-F04-LED-E1-SL3-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180652
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
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-SL3-HSS-7030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4706.5 lumens
Efficiency: N/A
Efficacy: 46.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-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

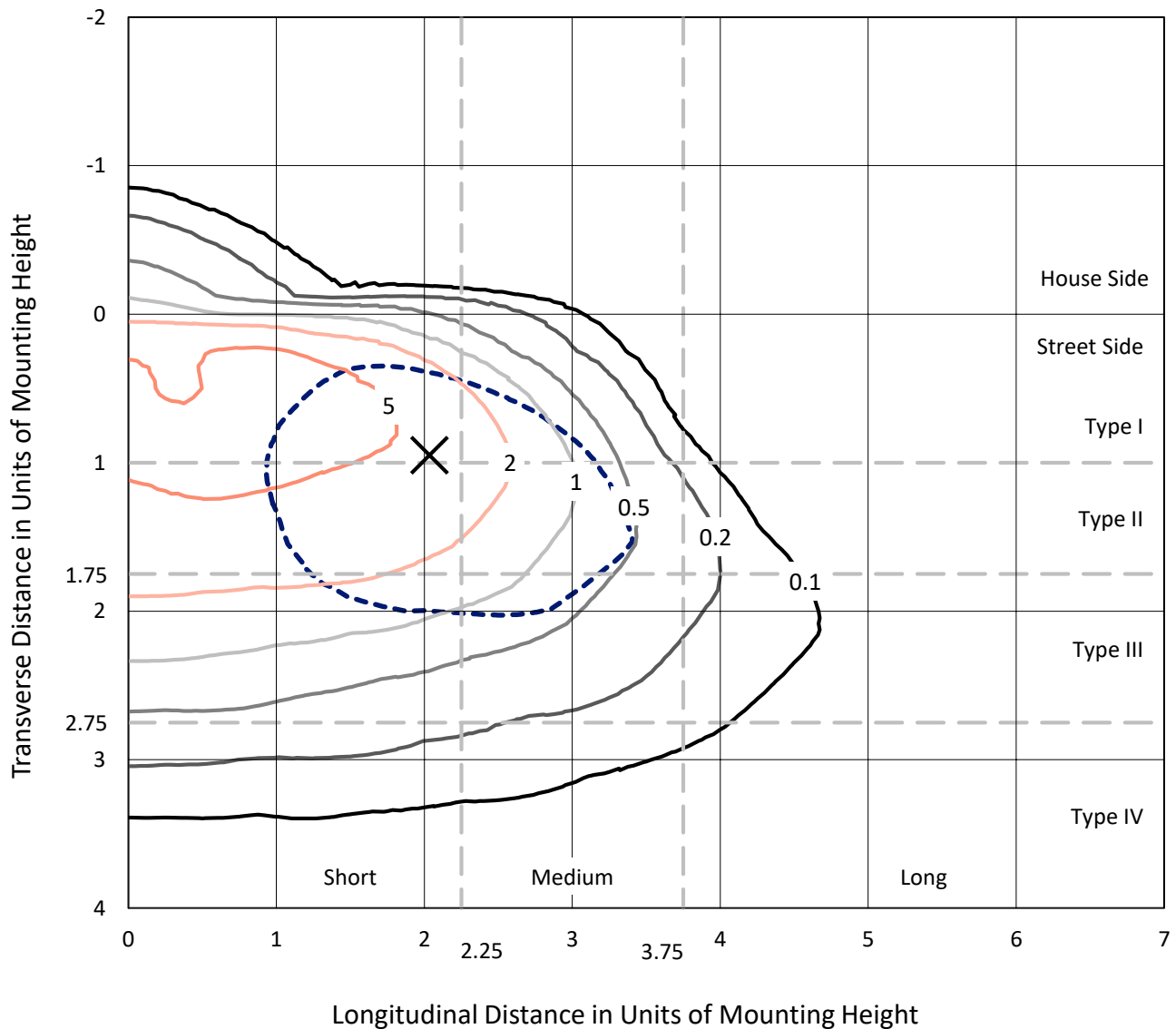


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

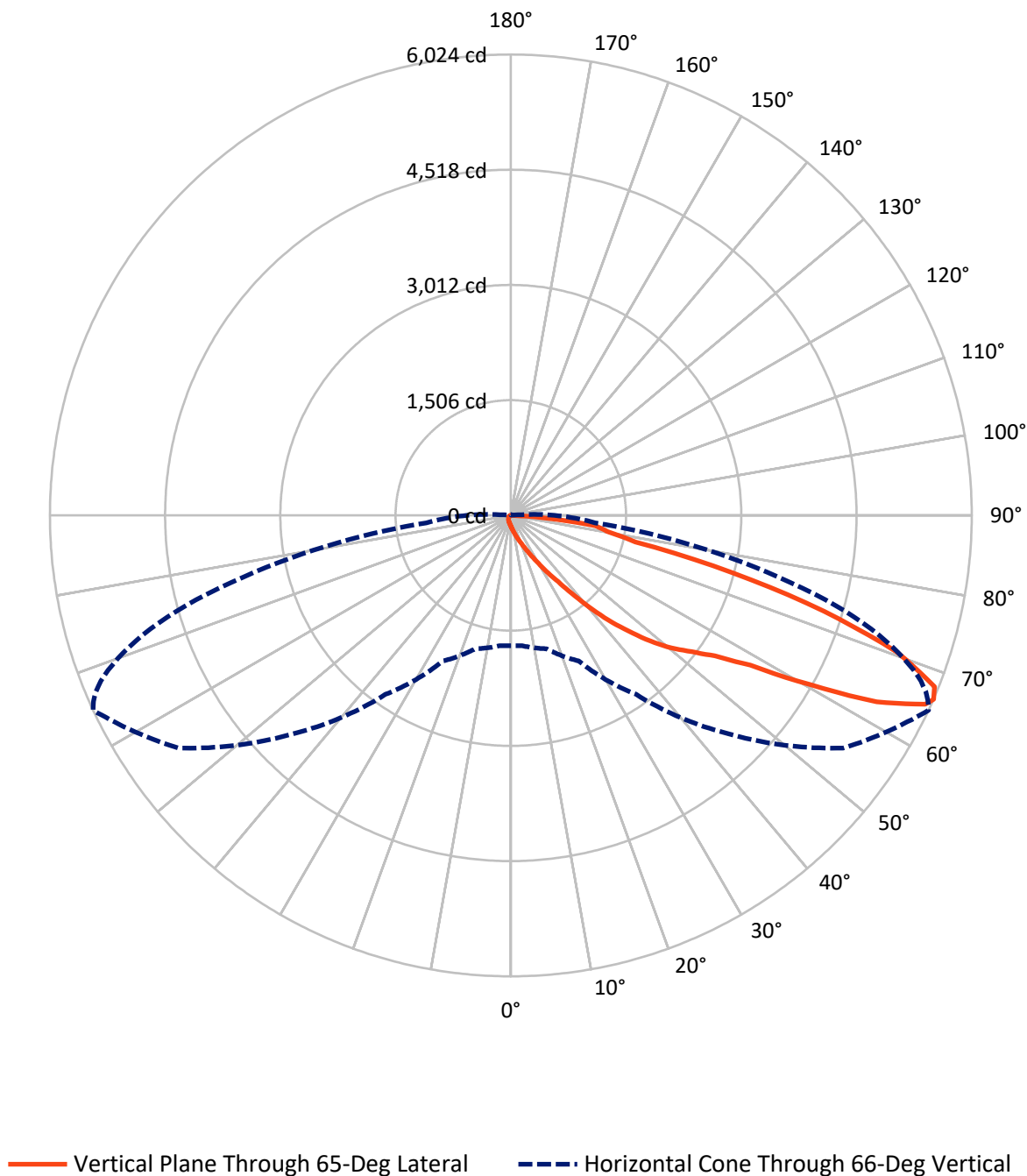


Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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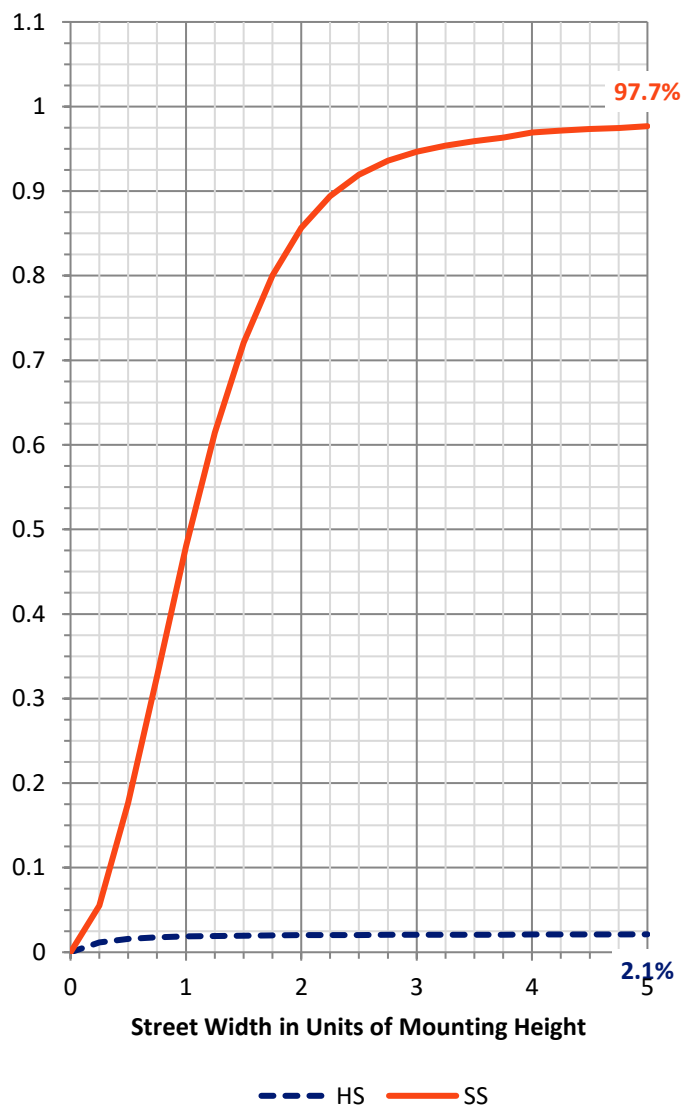
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	102.0	0.0	102.0
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	4604.5	0.0	4604.5
	% Fixture	97.8	0.0	97.8
Total	Lumens	4706.5	0.0	4706.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.9	0.3
10°-20°	67.4	1.4
20°-30°	145.4	3.1
30°-40°	310.6	6.6
40°-50°	686.9	14.6
50°-60°	1164.0	24.7
60°-70°	1553.3	33.0
70°-80°	684.2	14.5
80°-90°	78.8	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°	4706.5	100.0
0°-180°	4706.5	100.0

Coefficient of Utilization



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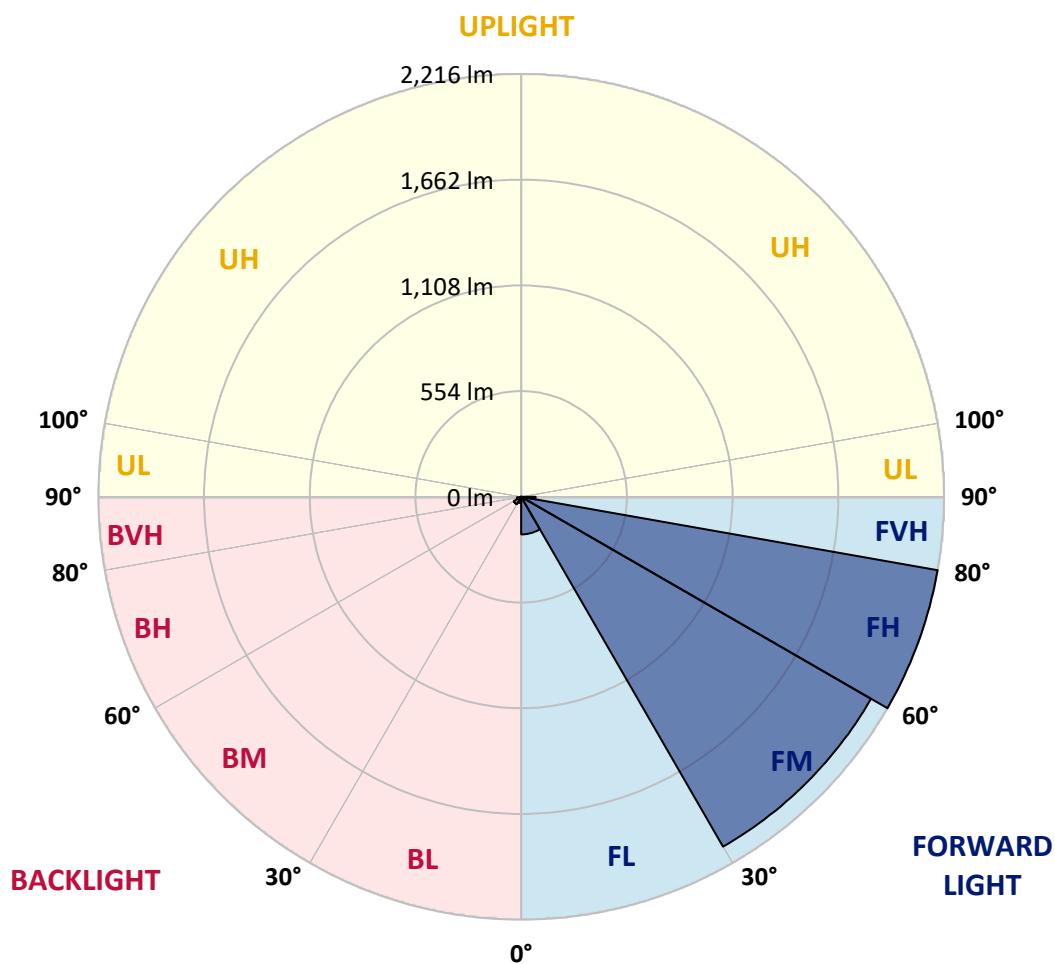
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	196.6	4.2			
FM	(30°-60°)	2116.7	45.0			
FH	(60°-80°)	2215.6	47.1			G2/5000
FVH	(80°-90°)	75.7	1.6			G1/100
BL	(0°-30°)	32.2	0.7	B0/110		
BM	(30°-60°)	44.8	1.0	B0/220		
BH	(60°-80°)	21.9	0.5	B0/110		G0/110
BVH	(80°-90°)	3.1	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	142.1	142.1	142.1	142.1	142.1	142.1	142.1	142.1	142.1	142.1	142.1
2.5°	179.2	178.3	174.6	174.6	169.2	165.6	161.1	156.5	156.5	155.6	154.7
5°	237.1	231.6	230.7	220.8	212.6	200.9	190.0	175.5	173.7	171.9	171.0
7.5°	301.3	300.4	292.3	280.5	264.2	242.5	220.8	197.3	193.6	191.8	188.2
10°	384.6	380.0	369.2	349.3	324.8	295.9	260.6	223.5	219.0	215.4	213.5
12.5°	464.2	456.0	449.7	424.4	393.6	351.1	308.6	255.2	251.5	247.0	239.8
15°	538.4	531.1	520.3	498.6	464.2	410.8	361.0	295.9	286.8	280.5	275.1
17.5°	596.3	591.8	579.1	554.7	517.6	470.5	410.8	337.5	330.3	322.1	312.2
20°	651.5	645.2	625.2	591.8	552.0	515.8	469.6	391.8	381.8	371.9	361.0
22.5°	704.0	697.6	665.1	609.9	567.3	552.0	535.7	453.3	437.9	429.8	418.9
25°	777.3	763.7	713.0	625.2	568.2	580.0	608.1	533.0	518.5	506.7	489.5
27.5°	875.9	857.8	778.2	647.9	571.9	610.8	691.3	629.8	614.4	600.8	581.8
30°	987.2	975.4	880.4	702.2	598.1	656.0	784.5	752.8	734.7	718.4	695.8
32.5°	1099.4	1083.1	989.0	805.3	668.7	743.8	901.2	895.8	872.3	856.9	832.5
35°	1198.0	1189.9	1120.2	974.5	829.7	897.6	1056.9	1063.2	1042.4	1026.1	998.9
37.5°	1265.0	1265.0	1251.4	1156.4	1085.8	1136.5	1285.8	1286.7	1265.9	1228.8	1215.2
40°	1299.4	1309.3	1358.2	1376.3	1372.6	1437.8	1586.2	1569.9	1552.7	1533.7	1488.5
42.5°	1369.9	1379.0	1483.0	1607.9	1689.3	1775.3	1877.5	1872.1	1851.3	1816.9	1775.3
45°	1489.4	1501.1	1625.1	1823.3	1990.7	2112.8	2178.0	2152.6	2131.8	2099.2	2077.5
47.5°	1641.4	1664.0	1804.3	2049.5	2251.2	2453.0	2520.9	2453.9	2435.8	2410.5	2375.2
50°	1803.3	1825.1	1974.4	2254.9	2482.9	2723.6	2836.7	2723.6	2697.3	2689.2	2649.4
52.5°	1943.6	1961.7	2105.6	2413.2	2660.2	2942.5	3107.2	2957.9	2938.9	2911.8	2882.8
55°	2026.8	2041.3	2176.1	2489.2	2780.6	3139.8	3368.7	3237.5	3209.5	3198.6	3157.0
57.5°	2054.9	2069.4	2190.6	2499.2	2845.7	3319.9	3686.3	3690.8	3657.4	3618.5	3605.8
60°	2054.9	2071.2	2173.4	2474.7	2909.1	3511.7	4109.8	4487.1	4414.7	4407.5	4361.3
62.5°	1969.8	1985.2	2088.4	2399.6	2994.1	3770.5	4699.7	5365.7	5344.9	5297.8	5221.8
65°	1785.3	1794.3	1895.6	2207.8	2961.5	4008.4	5211.0	5950.2	5916.8	5824.5	5726.7
66°	1702.0	1709.2	1804.3	2098.3	2854.8	4041.0	5301.5	6023.5	5968.3	5890.5	5780.1
67.5°	1581.7	1594.3	1661.3	1894.7	2598.7	3927.9	5244.5	5972.0	5924.0	5829.9	5719.5
70°	1055.9	1046.9	1283.1	1454.1	1979.8	3200.4	4705.2	5362.1	5363.0	5318.7	5274.3
72.5°	501.3	506.7	575.5	894.9	1295.7	2138.1	3745.1	4279.9	4341.4	4261.8	4206.6
75°	360.1	368.3	409.9	547.4	772.7	1283.1	2427.7	2993.2	2995.0	2853.9	2728.1
77.5°	105.0	109.5	153.8	337.5	579.1	865.9	1394.4	1664.0	1625.1	1523.8	1428.7
80°	43.4	43.4	45.2	107.7	232.5	588.1	975.4	1281.3	1276.7	1237.8	1181.7
82.5°	16.3	17.2	21.7	44.3	55.2	144.8	650.6	1112.1	1109.3	1054.1	1014.3
85°	1.8	1.8	5.4	19.0	20.8	27.1	130.3	490.4	487.7	490.4	429.8
87.5°	0.0	0.0	0.9	1.8	2.7	3.6	5.4	19.0	20.8	19.9	18.1
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	142.1	142.1	142.1	142.1	142.1	142.1	142.1	142.1	142.1	142.1	142.1
2.5°	154.7	152.9	152.9	152.0	152.0	152.0	151.1	150.2	150.2	149.3	148.4
5°	169.2	167.4	166.5	164.7	163.8	162.9	161.1	160.2	158.3	157.4	156.5
7.5°	186.4	182.8	181.9	179.2	176.4	174.6	172.8	170.1	168.3	164.7	163.8
10°	208.1	203.6	200.0	196.4	193.6	189.1	186.4	182.8	179.2	176.4	173.7
12.5°	236.2	229.8	224.4	220.8	214.4	209.0	203.6	200.9	193.6	190.0	185.5
15°	266.9	259.7	253.4	246.1	241.6	232.5	225.3	217.2	213.5	207.2	200.0
17.5°	306.7	295.0	285.0	277.8	268.7	259.7	251.5	243.4	232.5	225.3	216.3
20°	349.3	339.3	325.7	313.1	302.2	291.4	279.6	268.7	258.8	247.0	236.2
22.5°	403.6	389.1	372.8	360.1	345.6	333.9	317.6	303.1	286.8	271.5	258.8
25°	472.3	453.3	437.9	419.8	402.7	384.6	364.7	346.6	325.7	311.3	289.5
27.5°	557.4	539.3	518.5	494.9	477.8	450.6	424.4	401.7	377.3	354.7	330.3
30°	666.0	639.7	618.0	595.4	561.0	534.8	504.0	473.2	439.8	417.1	380.0
32.5°	796.3	768.2	735.6	703.1	671.4	634.3	596.3	558.3	521.2	479.6	441.6
35°	955.5	922.0	884.9	849.6	800.8	761.0	713.0	660.5	618.9	571.0	523.0
37.5°	1166.3	1111.1	1078.6	1041.5	975.4	921.1	867.7	815.3	742.0	691.3	623.4
40°	1430.6	1398.0	1344.6	1284.9	1225.2	1153.7	1081.3	1011.6	926.6	856.0	777.3
42.5°	1740.9	1693.0	1638.7	1552.7	1492.1	1407.9	1325.6	1233.3	1129.2	1038.8	946.5
45°	2032.3	1975.3	1933.6	1847.7	1784.3	1684.8	1585.3	1487.6	1367.2	1250.5	1143.7
47.5°	2347.2	2300.1	2231.3	2161.7	2097.4	1985.2	1877.5	1759.0	1632.3	1493.9	1355.5
50°	2624.0	2586.9	2539.9	2455.7	2384.3	2290.2	2163.5	2034.1	1873.9	1736.4	1578.9
52.5°	2859.3	2830.3	2764.3	2704.6	2640.3	2551.7	2438.5	2314.6	2141.8	1990.7	1811.5
55°	3137.1	3116.3	3058.4	3021.3	2964.3	2879.2	2773.3	2658.4	2475.6	2311.0	2108.3
57.5°	3592.2	3575.9	3525.3	3509.9	3453.8	3379.6	3249.3	3126.2	2912.7	2708.2	2476.6
60°	4346.0	4313.4	4239.2	4201.2	4082.6	3983.1	3813.9	3644.7	3386.8	3126.2	2847.5
62.5°	5153.1	5061.7	4920.5	4799.3	4631.0	4458.2	4231.9	3973.2	3670.9	3361.5	3041.2
65°	5588.3	5432.7	5254.4	5061.7	4843.6	4589.4	4304.3	3994.0	3669.1	3342.5	3004.1
66°	5638.1	5462.5	5273.4	5059.0	4816.5	4545.9	4256.4	3930.6	3593.1	3274.6	2936.2
67.5°	5575.6	5391.9	5192.0	4954.0	4691.6	4411.1	4107.1	3768.7	3443.8	3120.8	2791.4
70°	5138.6	4955.8	4777.6	4526.9	4247.3	3965.0	3677.3	3299.1	2991.4	2694.6	2401.4
72.5°	4103.5	3979.5	3803.0	3588.6	3316.2	2985.1	2745.3	2406.9	2139.9	1852.2	1625.1
75°	2564.3	2389.7	2171.6	1898.4	1690.2	1421.5	1281.3	1024.3	872.3	739.3	610.8
77.5°	1311.1	1179.9	1027.0	873.2	725.7	579.1	447.9	316.7	213.5	148.4	110.4
80°	1083.1	967.3	840.6	700.3	570.1	442.5	318.5	217.2	138.4	90.5	70.6
82.5°	894.9	797.2	684.1	553.8	440.7	347.5	241.6	157.4	97.7	63.3	49.8
85°	380.9	345.6	266.9	211.7	159.3	117.6	82.3	55.2	38.9	31.7	29.0
87.5°	16.3	18.1	17.2	13.6	10.0	10.0	9.0	7.2	7.2	7.2	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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	142.1	142.1	142.1	142.1	142.1	142.1	142.1	142.1	142.1	142.1	142.1
2.5°	148.4	147.5	146.6	146.6	145.7	144.8	139.3	134.8	129.4	125.8	122.2
5°	154.7	153.8	152.0	151.1	149.3	148.4	136.6	126.7	118.5	112.2	107.7
7.5°	161.1	160.2	157.4	154.7	153.8	152.0	133.0	120.3	109.5	102.2	97.7
10°	169.2	166.5	163.8	160.2	157.4	154.7	129.4	113.1	101.3	95.0	90.5
12.5°	181.0	176.4	171.9	167.4	163.8	159.3	127.6	106.8	95.0	87.8	83.2
15°	194.5	188.2	182.8	177.3	171.0	166.5	124.0	101.3	89.6	82.3	76.9
17.5°	207.2	200.0	191.8	183.7	177.3	171.0	120.3	95.9	84.2	76.9	71.5
20°	225.3	214.4	204.5	194.5	185.5	177.3	114.9	90.5	79.6	71.5	66.1
22.5°	245.2	232.5	219.9	206.3	194.5	183.7	110.4	86.0	75.1	67.0	60.6
25°	270.5	255.2	238.0	220.8	207.2	192.7	105.9	81.4	70.6	62.4	56.1
27.5°	305.8	284.1	265.1	243.4	222.6	206.3	102.2	77.8	66.1	57.9	51.6
30°	353.8	322.1	292.3	268.7	244.3	220.8	98.6	73.3	62.4	53.4	46.1
32.5°	407.2	370.1	335.7	300.4	269.6	242.5	95.0	69.7	57.9	48.9	42.5
35°	473.2	426.2	380.0	339.3	302.2	266.0	91.4	66.1	54.3	44.3	38.0
37.5°	568.2	509.4	448.8	396.3	348.4	300.4	88.7	62.4	49.8	39.8	33.5
40°	698.5	622.5	548.3	476.9	414.4	354.7	85.1	58.8	46.1	36.2	29.9
42.5°	839.7	747.4	649.7	569.1	483.2	408.1	81.4	55.2	42.5	32.6	26.2
45°	1015.2	900.3	781.8	672.3	567.3	470.5	77.8	51.6	38.0	29.0	22.6
47.5°	1207.1	1060.5	926.6	789.0	664.2	548.3	73.3	48.9	34.4	25.3	19.9
50°	1404.3	1249.6	1080.4	923.8	775.4	626.2	68.8	44.3	30.8	22.6	16.3
52.5°	1617.0	1434.2	1261.3	1066.8	894.0	728.4	64.2	40.7	28.1	19.9	13.6
55°	1887.5	1683.0	1480.3	1262.3	1054.1	846.9	59.7	36.2	24.4	17.2	10.9
57.5°	2227.7	1985.2	1736.4	1490.3	1237.8	1002.6	56.1	31.7	20.8	14.5	9.0
60°	2548.9	2265.7	1964.4	1681.2	1396.2	1122.0	50.7	28.1	18.1	11.8	9.0
62.5°	2715.4	2392.4	2067.6	1755.4	1451.4	1164.5	45.2	23.5	15.4	10.0	8.1
65°	2674.7	2345.3	2030.5	1715.6	1417.9	1137.4	39.8	20.8	13.6	9.0	8.1
66°	2615.9	2290.2	1973.5	1674.0	1389.8	1108.4	37.1	19.9	12.7	9.0	7.2
67.5°	2487.4	2172.5	1870.3	1591.6	1312.9	1053.2	33.5	18.1	11.8	8.1	7.2
70°	2124.6	1838.6	1597.0	1349.1	1122.0	887.6	27.1	15.4	10.0	7.2	7.2
72.5°	1406.1	1211.6	1050.5	903.9	755.5	586.3	22.6	12.7	8.1	7.2	6.3
75°	530.2	479.6	411.7	370.1	323.0	283.2	18.1	8.1	6.3	6.3	6.3
77.5°	94.1	86.9	76.9	70.6	65.1	59.7	14.5	5.4	5.4	6.3	6.3
80°	63.3	58.8	53.4	48.9	45.2	40.7	10.0	4.5	5.4	5.4	6.3
82.5°	45.2	42.5	39.8	36.2	33.5	29.9	6.3	4.5	5.4	5.4	5.4
85°	27.1	25.3	23.5	21.7	19.0	18.1	4.5	4.5	4.5	5.4	5.4
87.5°	7.2	6.3	7.2	7.2	5.4	6.3	3.6	3.6	3.6	4.5	4.5
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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CATALOG NUMBER: ICS-F04-LED-E1-SL3-HSS-7030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	142.1	142.1	142.1	142.1	142.1
2.5°	120.3	120.3	118.5	121.2	121.2
5°	104.1	104.1	103.2	104.1	104.1
7.5°	95.0	94.1	94.1	94.1	95.0
10°	86.9	86.0	86.0	86.0	86.0
12.5°	79.6	78.7	77.8	78.7	78.7
15°	73.3	71.5	71.5	71.5	71.5
17.5°	67.9	66.1	65.1	65.1	65.1
20°	62.4	59.7	59.7	59.7	59.7
22.5°	57.0	54.3	54.3	54.3	54.3
25°	51.6	48.9	48.9	48.9	48.9
27.5°	47.1	44.3	44.3	44.3	44.3
30°	41.6	39.8	39.8	40.7	39.8
32.5°	38.0	35.3	35.3	36.2	36.2
35°	33.5	31.7	31.7	31.7	31.7
37.5°	29.0	27.1	27.1	27.1	27.1
40°	25.3	23.5	22.6	23.5	23.5
42.5°	21.7	19.9	19.0	19.0	19.0
45°	19.0	16.3	15.4	16.3	16.3
47.5°	15.4	13.6	13.6	14.5	14.5
50°	11.8	11.8	12.7	14.5	14.5
52.5°	10.9	10.9	12.7	14.5	14.5
55°	10.0	10.9	12.7	13.6	14.5
57.5°	9.0	10.9	12.7	13.6	13.6
60°	9.0	10.0	11.8	13.6	13.6
62.5°	8.1	9.0	10.9	12.7	12.7
65°	8.1	9.0	10.9	12.7	12.7
66°	8.1	9.0	10.9	12.7	12.7
67.5°	8.1	9.0	10.9	12.7	12.7
70°	8.1	9.0	10.9	11.8	11.8
72.5°	7.2	8.1	10.0	11.8	11.8
75°	7.2	8.1	10.0	11.8	11.8
77.5°	7.2	8.1	10.0	11.8	11.8
80°	7.2	8.1	10.0	10.9	11.8
82.5°	6.3	8.1	9.0	10.9	10.9
85°	6.3	7.2	9.0	10.0	10.9
87.5°	5.4	6.3	7.2	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)