

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: P181402

Luminaire Tested: **ICS-F03-LED-E1-T3-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181402
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33724)
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-T3-HSS-8030
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ HOUSE SIDE SHIELD
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3067.1 lumens
Efficiency: N/A
Efficacy: 39.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

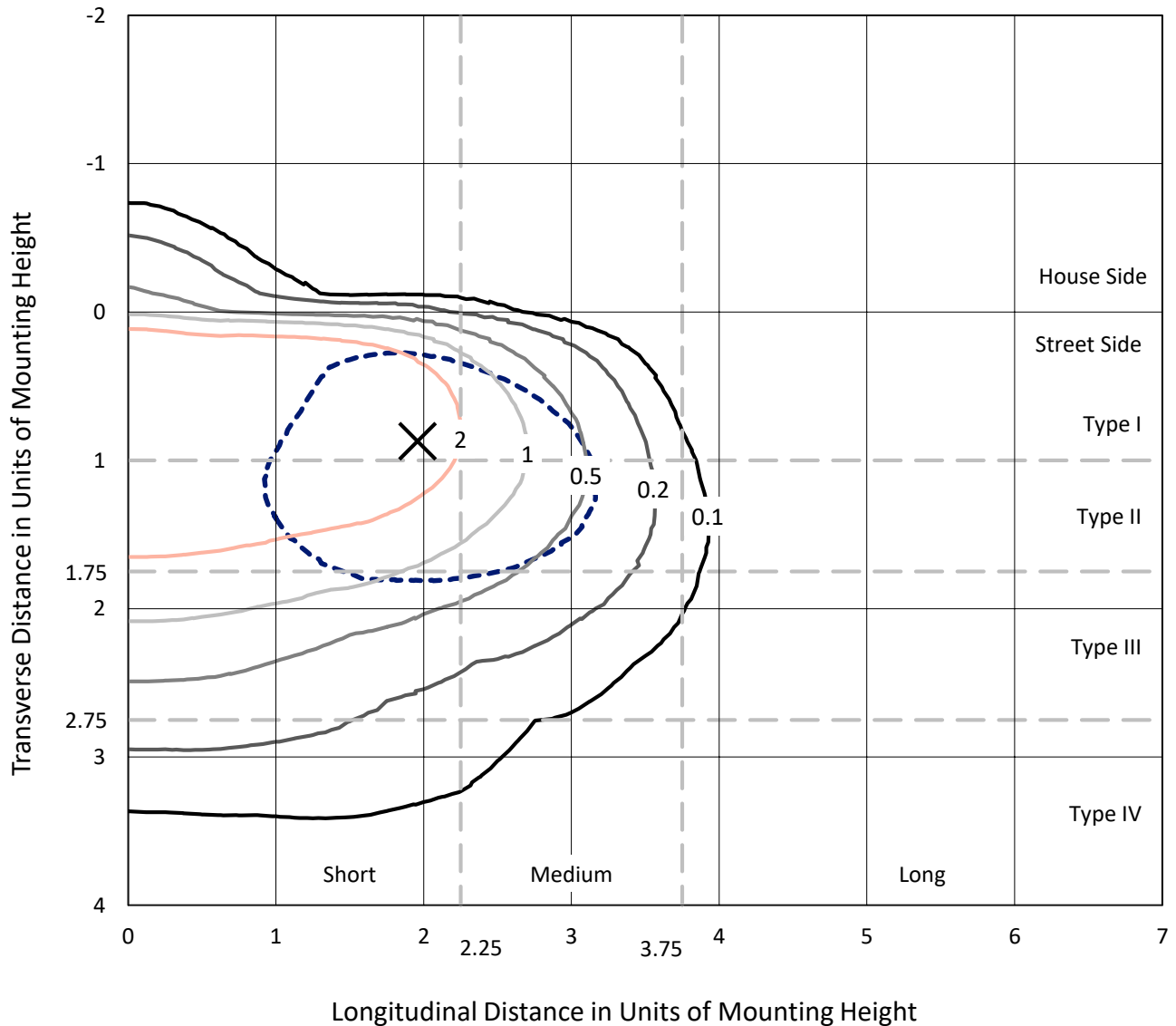
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

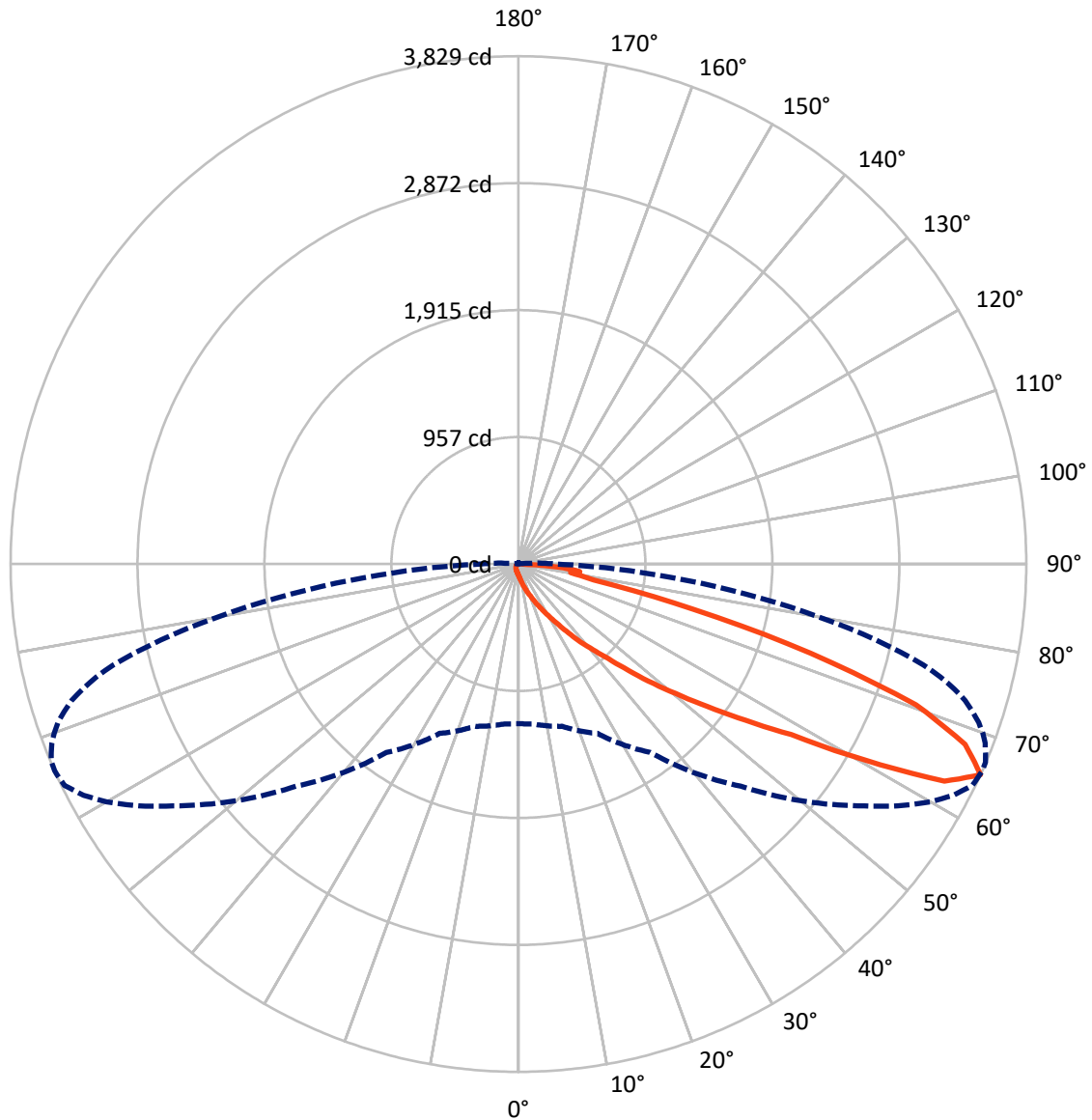
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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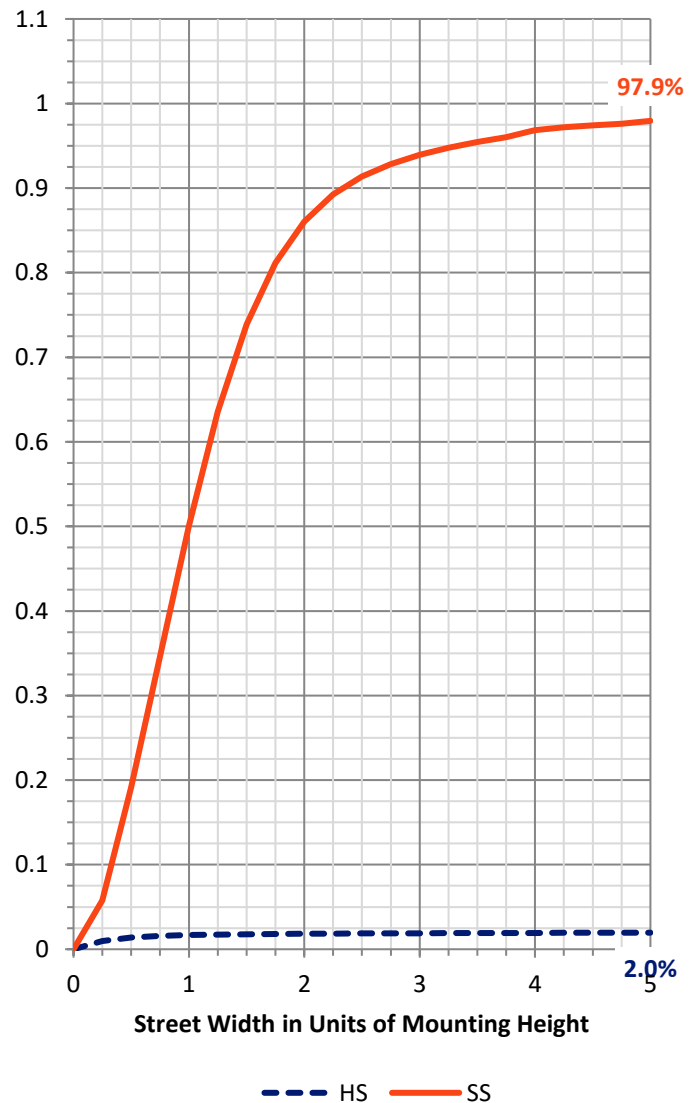
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	61.6	0.0	61.6
	% Fixture	2.0	0.0	2.0
Street Side	Lumens	3005.5	0.0	3005.5
	% Fixture	98.0	0.0	98.0
Total	Lumens	3067.1	0.0	3067.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.4	0.3
10°-20°	49.9	1.6
20°-30°	113.9	3.7
30°-40°	216.7	7.1
40°-50°	435.0	14.2
50°-60°	769.7	25.1
60°-70°	1005.7	32.8
70°-80°	413.5	13.5
80°-90°	52.1	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°	3067.1	100.0
0°-180°	3067.1	100.0



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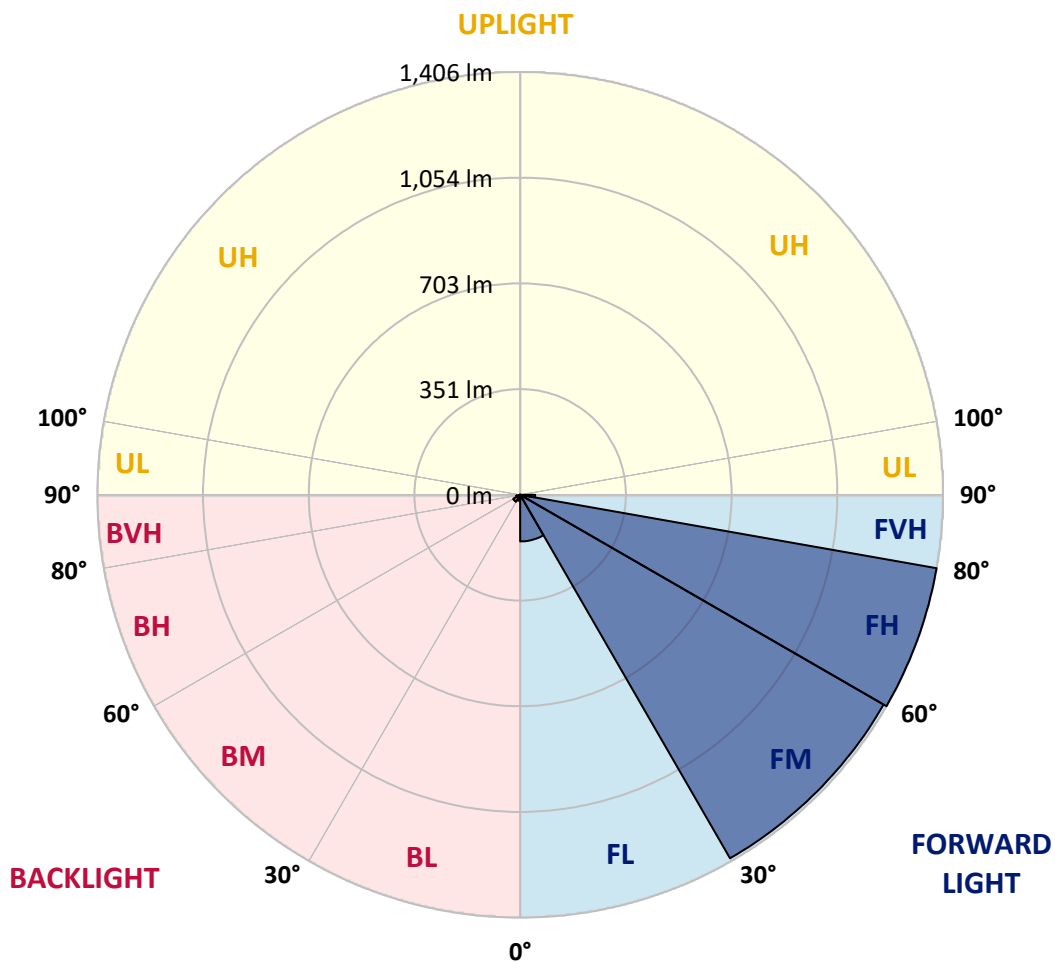
CATALOG NUMBER: ICS-F03-LED-E1-T3-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	155.0	5.1			
FM	(30°-60°)	1395.1	45.5			
FH	(60°-80°)	1405.6	45.8			G1/1800
FVH	(80°-90°)	49.8	1.6			G1/100
BL	(0°-30°)	19.3	0.6	B0/110		
BM	(30°-60°)	26.4	0.9	B0/220		
BH	(60°-80°)	13.6	0.4	B0/110		G0/110
BVH	(80°-90°)	2.3	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
2.5°	112.9	111.0	111.6	107.9	105.4	102.2	99.7	99.1	98.5	97.2	97.8
5°	162.4	160.5	156.1	148.6	141.7	131.1	120.4	119.8	117.9	116.0	114.8
7.5°	225.8	222.6	217.6	205.1	188.1	169.3	148.0	146.1	143.6	141.1	138.6
10°	299.1	297.2	287.8	273.4	247.7	217.0	181.2	179.3	173.7	170.6	168.1
12.5°	376.3	368.1	364.3	339.3	309.8	267.8	222.0	215.1	210.7	206.3	200.0
15°	434.6	435.8	427.1	407.0	372.5	323.6	266.5	259.0	252.7	244.6	237.0
17.5°	487.3	484.7	475.3	462.8	430.2	380.6	314.2	304.1	294.1	289.7	279.1
20°	529.9	528.6	521.1	509.2	484.1	436.5	364.3	356.2	344.9	337.4	325.5
22.5°	563.8	563.8	559.4	552.5	528.0	489.8	417.6	408.9	397.6	388.2	375.0
25°	590.7	590.1	590.7	587.6	571.3	536.2	472.2	462.2	452.8	441.5	428.9
27.5°	621.5	622.7	621.5	619.6	612.7	584.5	527.4	520.5	509.8	497.9	485.4
30°	669.1	665.3	664.7	663.5	655.3	637.8	584.5	576.3	568.1	560.0	551.2
32.5°	719.3	713.0	711.1	711.1	705.5	689.8	650.3	645.9	634.0	627.7	620.2
35°	776.3	773.8	771.3	772.0	769.4	753.1	720.5	721.8	718.0	705.5	698.0
37.5°	859.7	860.4	856.0	847.8	847.8	833.4	814.6	812.1	802.7	799.5	795.2
40°	978.9	975.8	972.0	960.1	955.7	931.2	913.7	907.4	899.9	899.3	894.2
42.5°	1116.9	1113.1	1113.1	1104.3	1095.5	1066.1	1032.8	1028.4	1020.3	1022.8	1020.9
45°	1244.8	1247.9	1252.3	1258.6	1259.8	1247.3	1199.0	1193.4	1189.0	1186.5	1184.6
47.5°	1355.2	1360.8	1375.2	1402.2	1436.7	1441.1	1402.8	1387.8	1384.6	1380.2	1376.5
50°	1434.2	1442.3	1474.9	1527.6	1594.7	1636.1	1615.4	1602.9	1602.2	1590.3	1589.1
52.5°	1479.3	1488.1	1541.4	1621.0	1725.1	1806.0	1831.7	1831.1	1829.9	1819.2	1814.8
55°	1489.4	1498.8	1562.7	1671.2	1819.8	1959.7	2058.1	2060.6	2066.3	2063.1	2063.1
57.5°	1461.8	1473.7	1543.3	1677.5	1869.4	2081.3	2296.4	2310.8	2317.7	2342.2	2370.4
60°	1411.0	1419.7	1489.4	1639.2	1878.2	2192.3	2606.2	2652.0	2687.7	2736.0	2781.8
62.5°	1316.9	1334.5	1400.9	1564.0	1851.8	2320.3	2976.2	3060.9	3130.5	3203.8	3292.3
65°	1202.8	1210.3	1266.7	1409.1	1733.9	2369.2	3180.6	3263.4	3352.5	3430.8	3509.9
67.5°	1059.8	1066.1	1115.0	1175.8	1431.0	2140.3	2979.3	3070.9	3151.2	3215.7	3319.2
70°	694.2	708.0	827.8	888.0	1000.2	1582.2	2436.3	2524.7	2586.1	2630.0	2749.8
72.5°	508.6	517.4	565.6	689.8	717.4	935.0	1714.5	1810.4	1833.0	1915.8	1971.6
75°	310.4	332.4	441.5	590.7	699.2	640.3	1027.2	1073.6	1125.6	1185.8	1239.1
77.5°	62.7	71.5	144.2	407.0	615.2	684.2	613.3	622.1	647.8	653.4	673.5
80°	10.0	10.7	18.8	175.6	356.2	553.1	613.3	605.1	590.7	580.7	570.7
82.5°	4.4	5.0	8.2	44.5	75.9	184.4	530.5	571.9	619.6	645.9	652.8
85°	1.9	1.9	3.1	8.8	11.3	12.5	89.7	118.5	211.3	280.9	323.6
87.5°	1.3	1.3	1.9	1.9	2.5	3.1	4.4	4.4	5.0	5.6	8.2
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
2.5°	97.8	97.2	97.2	95.3	95.3	94.7	94.7	94.1	94.1	92.8	93.4
5°	114.1	112.9	111.6	109.7	109.1	107.9	106.6	104.7	104.1	102.8	102.2
7.5°	136.1	134.8	132.3	128.6	126.0	123.5	121.0	118.5	116.6	114.8	113.5
10°	163.0	159.3	158.0	150.5	147.4	142.4	139.2	136.7	132.9	129.8	127.9
12.5°	195.7	192.5	186.2	176.2	171.2	166.8	161.2	156.1	152.4	146.7	143.0
15°	229.5	227.0	218.2	206.9	200.7	192.5	186.9	181.9	173.7	169.9	163.0
17.5°	272.2	264.6	255.9	239.6	231.4	224.5	214.5	206.9	201.9	190.6	184.4
20°	316.1	307.9	296.6	278.4	267.1	256.5	248.3	238.3	227.6	220.1	209.5
22.5°	366.2	353.1	344.3	321.7	308.5	297.2	283.4	272.8	262.1	250.2	238.3
25°	419.5	406.4	395.7	370.0	356.2	344.9	328.6	313.5	300.4	287.2	273.4
27.5°	475.3	463.4	451.5	425.2	413.3	397.6	382.5	365.0	348.0	336.1	317.3
30°	539.9	529.9	516.7	488.5	475.3	459.0	443.4	422.7	406.4	390.1	371.9
32.5°	609.5	601.4	587.6	562.5	546.8	533.0	516.1	496.0	472.8	455.9	434.6
35°	694.2	680.4	672.2	648.4	636.5	621.5	603.9	586.3	561.9	538.0	519.9
37.5°	790.8	784.5	773.8	751.3	742.5	726.8	715.5	698.0	679.1	649.0	629.6
40°	889.8	885.5	876.1	853.5	844.7	834.0	820.9	803.9	781.4	765.7	736.8
42.5°	1015.9	1009.0	1001.5	980.2	963.2	950.1	944.4	930.0	906.2	886.1	863.5
45°	1175.8	1172.7	1162.6	1141.3	1124.4	1115.6	1106.8	1082.4	1066.7	1046.6	1030.9
47.5°	1369.0	1358.9	1353.9	1330.1	1324.4	1317.5	1295.0	1281.2	1258.6	1242.9	1223.5
50°	1577.8	1567.1	1567.7	1538.9	1540.1	1535.1	1518.2	1501.9	1482.5	1468.7	1456.7
52.5°	1802.3	1807.3	1794.7	1803.5	1793.5	1782.2	1779.1	1759.0	1742.1	1741.4	1725.1
55°	2078.2	2070.0	2073.2	2082.0	2068.2	2080.7	2074.4	2048.7	2049.4	2054.4	2035.6
57.5°	2374.8	2386.7	2412.4	2418.1	2441.9	2425.6	2468.3	2437.5	2456.3	2456.3	2443.8
60°	2810.0	2857.7	2919.8	2968.0	3012.6	2998.1	3054.0	3018.8	3043.9	3022.6	3011.9
62.5°	3334.3	3397.6	3471.0	3549.4	3594.5	3605.8	3597.7	3613.3	3588.9	3573.2	3532.4
65°	3586.4	3649.1	3713.0	3807.1	3819.6	3829.0	3825.3	3798.9	3768.8	3724.3	3671.0
67.5°	3376.9	3464.7	3500.5	3608.9	3645.3	3632.1	3636.5	3602.7	3555.6	3511.7	3433.4
70°	2800.0	2900.3	2919.1	3074.7	3117.9	3180.6	3158.1	3148.0	3096.6	3059.6	2973.1
72.5°	2038.7	2117.1	2110.8	2285.8	2278.2	2304.0	2364.8	2362.3	2308.3	2296.4	2223.7
75°	1254.8	1301.9	1299.3	1423.5	1371.5	1363.9	1380.9	1373.3	1322.5	1269.9	1224.7
77.5°	664.7	686.0	663.5	626.5	622.7	580.7	568.8	568.1	529.3	481.6	446.5
80°	560.0	538.0	511.7	457.8	426.4	398.2	371.9	347.4	321.1	286.0	243.3
82.5°	654.1	643.4	624.6	556.9	524.3	467.8	425.8	386.3	338.0	301.6	247.1
85°	318.6	317.9	333.0	326.1	314.2	311.7	270.3	261.5	242.1	222.0	185.6
87.5°	8.8	6.3	7.5	6.3	7.5	8.2	5.6	13.2	8.2	7.5	8.8
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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CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
2.5°	92.8	92.2	91.6	91.6	90.9	90.9	90.3	89.7	89.7	89.0	89.0
5°	101.0	99.7	99.1	98.5	97.2	96.6	95.3	94.7	93.4	92.8	91.6
7.5°	111.0	109.7	107.2	106.0	104.1	103.5	100.3	99.1	97.8	96.6	94.7
10°	123.5	120.4	117.9	115.4	112.3	109.7	107.2	105.4	102.8	99.7	98.5
12.5°	139.2	134.8	131.1	126.7	122.9	119.1	114.8	111.6	107.9	104.7	101.6
15°	156.8	150.5	145.5	139.2	132.9	128.6	124.2	119.8	114.8	110.4	106.6
17.5°	176.8	168.7	161.8	154.3	147.4	141.1	133.6	127.9	122.3	116.0	111.0
20°	198.2	190.0	180.6	172.5	162.4	155.5	146.1	138.6	130.4	124.2	117.3
22.5°	226.4	215.7	203.8	192.5	181.9	171.2	161.2	151.8	141.7	132.3	125.4
25°	259.6	246.4	231.4	220.1	205.1	193.1	180.6	168.7	158.0	146.1	134.8
27.5°	301.0	283.4	267.1	251.5	235.2	220.1	203.8	190.0	175.6	161.8	149.2
30°	349.3	332.4	307.9	290.3	274.0	253.3	237.0	218.9	202.6	182.5	168.7
32.5°	413.3	391.3	365.6	342.4	321.1	297.9	275.3	252.1	230.8	212.6	191.9
35°	496.7	470.9	440.2	410.7	386.9	358.7	329.9	303.5	279.1	252.7	227.0
37.5°	602.0	578.2	544.9	509.2	477.2	443.4	413.3	376.3	343.6	311.7	279.1
40°	706.7	684.8	650.3	612.0	570.7	531.8	493.5	451.5	410.1	370.0	336.1
42.5°	835.9	803.3	766.3	723.0	682.9	636.5	588.8	540.6	491.0	442.7	394.4
45°	998.3	973.3	921.2	874.8	827.1	772.6	713.6	658.5	595.1	538.0	474.1
47.5°	1195.9	1150.7	1112.5	1069.8	1010.3	957.6	882.3	817.1	738.1	662.2	585.7
50°	1429.2	1404.1	1353.3	1300.0	1235.4	1172.7	1099.3	1005.2	910.5	829.6	724.9
52.5°	1701.9	1666.2	1634.2	1579.0	1513.2	1432.9	1349.5	1247.3	1131.3	1017.1	905.5
55°	2025.5	2000.4	1969.7	1925.8	1841.8	1750.9	1650.5	1528.2	1390.9	1237.3	1107.5
57.5°	2443.2	2416.8	2387.4	2297.1	2240.0	2128.4	1982.9	1856.2	1708.2	1511.3	1350.1
60°	3013.2	2977.5	2936.1	2862.7	2743.5	2598.7	2442.5	2255.0	2073.8	1858.7	1647.4
62.5°	3500.5	3443.4	3355.0	3260.3	3117.3	2951.1	2754.8	2534.1	2327.8	2085.7	1850.6
65°	3600.8	3522.4	3418.3	3294.8	3147.4	2959.9	2754.8	2543.5	2300.8	2073.2	1836.8
67.5°	3339.9	3249.0	3142.4	3004.4	2863.9	2670.8	2494.0	2278.9	2050.6	1853.7	1642.4
70°	2911.0	2776.2	2667.0	2520.3	2377.9	2226.2	2039.9	1878.8	1693.2	1511.9	1350.1
72.5°	2186.1	2053.1	1954.0	1836.8	1752.1	1591.6	1454.9	1334.5	1224.7	1089.3	969.5
75°	1178.3	1078.6	1012.1	958.8	883.0	777.0	711.8	629.0	582.6	526.1	471.6
77.5°	384.4	338.6	289.1	240.8	206.9	155.5	150.5	119.8	112.9	109.7	84.7
80°	196.9	151.8	109.7	79.0	60.2	53.3	50.8	48.3	45.8	43.9	40.8
82.5°	197.5	143.0	98.5	68.4	49.5	41.4	38.9	37.6	35.7	33.9	31.4
85°	144.2	106.6	73.4	50.2	34.5	27.6	26.3	24.5	23.2	22.6	20.1
87.5°	9.4	6.9	6.3	5.6	5.6	5.6	6.3	5.6	6.3	6.3	5.6
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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CATALOG NUMBER: ICS-F03-LED-E1-T3-HSS-8030

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
2.5°	88.4	87.8	87.8	87.2	86.5	86.5	85.9	85.9	84.0	80.9	78.4
5°	90.9	89.7	89.0	88.4	87.8	86.5	85.9	85.3	82.1	75.9	70.9
7.5°	92.8	91.6	90.9	89.7	87.8	87.2	85.9	84.7	79.6	70.9	65.2
10°	95.9	94.1	92.2	90.3	88.4	87.2	85.3	84.0	76.5	66.5	60.8
12.5°	99.1	96.6	94.1	90.9	89.0	87.2	85.3	82.8	74.0	62.7	56.4
15°	102.8	99.1	95.9	92.8	89.7	87.2	84.0	82.1	71.5	59.6	53.9
17.5°	106.6	102.2	97.8	93.4	90.3	86.5	84.0	80.9	69.0	57.1	50.8
20°	111.0	104.7	100.3	95.3	90.9	86.5	82.8	79.6	66.5	53.9	47.7
22.5°	117.3	109.7	102.8	97.2	91.6	87.2	82.8	78.4	64.0	51.4	45.2
25°	125.4	116.0	107.9	101.0	94.1	88.4	83.4	79.0	62.1	49.5	42.0
27.5°	137.3	125.4	116.6	107.2	98.5	91.6	85.3	80.3	60.8	47.7	40.1
30°	151.8	139.8	126.0	114.8	105.4	95.9	89.0	81.5	59.6	45.8	37.6
32.5°	173.1	156.1	139.8	126.0	112.9	102.2	92.2	84.7	58.9	42.6	35.1
35°	203.8	180.6	161.2	143.0	124.8	111.6	99.7	89.7	58.3	40.1	32.6
37.5°	247.7	220.1	195.0	169.3	146.7	127.9	111.6	98.5	58.3	38.3	30.1
40°	294.7	259.0	227.0	195.0	166.2	142.4	120.4	104.1	57.1	35.7	27.6
42.5°	348.0	304.1	260.2	220.7	185.0	154.3	128.6	108.5	53.9	33.2	25.1
45°	419.5	361.8	309.2	258.4	212.0	171.8	139.2	113.5	50.8	31.4	22.6
47.5°	509.2	442.1	373.7	309.8	249.0	198.2	154.9	121.7	48.9	28.8	20.7
50°	642.8	547.5	457.2	375.6	298.5	232.0	178.1	133.6	47.0	27.0	18.8
52.5°	789.5	672.2	566.3	461.5	365.6	277.8	205.1	149.2	45.2	25.1	16.9
55°	968.2	824.0	694.8	558.7	435.8	331.1	238.3	166.8	42.6	23.2	15.7
57.5°	1189.0	1006.5	853.5	687.3	533.0	400.1	282.8	196.3	40.1	20.7	13.8
60°	1435.4	1229.1	1036.6	841.6	654.7	491.6	348.7	238.3	37.6	18.2	11.9
62.5°	1612.9	1386.5	1166.4	947.5	742.5	560.0	402.0	270.9	33.9	15.7	10.7
65°	1611.0	1381.5	1160.1	944.4	745.0	562.5	403.8	277.2	30.1	13.8	9.4
67.5°	1435.4	1242.3	1044.7	851.0	676.6	511.7	373.7	257.1	25.7	12.5	8.2
70°	1180.8	1027.2	871.0	717.4	577.6	438.3	323.0	223.9	21.9	11.3	6.9
72.5°	862.3	750.0	654.7	546.2	450.9	346.2	257.7	175.6	17.6	9.4	6.3
75°	428.3	383.2	328.6	294.7	251.5	205.7	159.9	102.2	14.4	7.5	5.6
77.5°	81.5	72.7	69.6	60.2	55.2	48.9	43.3	30.7	11.3	5.6	5.0
80°	37.6	34.5	31.4	28.2	25.1	21.3	18.8	16.3	8.8	4.4	5.6
82.5°	29.5	27.0	23.8	21.3	18.8	16.3	13.8	11.9	5.6	3.8	5.6
85°	19.4	16.9	15.1	13.2	11.3	10.0	8.8	7.5	3.8	3.8	3.8
87.5°	5.6	5.6	5.0	5.0	4.4	4.4	3.8	3.8	3.1	3.1	3.1
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):

	125°	135°	145°	155°	165°	175°	180°
0°	85.3	85.3	85.3	85.3	85.3	85.3	85.3
2.5°	75.9	72.7	71.5	70.9	70.9	71.5	70.9
5°	67.1	64.0	62.7	61.5	61.5	61.5	62.1
7.5°	61.5	58.3	56.4	55.8	55.2	55.8	55.8
10°	56.4	53.9	51.4	50.2	50.2	50.2	50.2
12.5°	52.7	49.5	47.0	46.4	45.8	45.8	45.8
15°	49.5	45.8	43.9	42.6	42.0	42.0	42.6
17.5°	45.8	42.6	40.1	39.5	39.5	39.5	39.5
20°	43.3	39.5	37.6	36.4	36.4	36.4	36.4
22.5°	40.1	37.0	34.5	33.2	33.2	33.2	33.2
25°	37.6	34.5	32.0	30.7	30.7	30.7	30.7
27.5°	35.1	32.0	29.5	28.2	28.2	28.2	28.2
30°	32.6	29.5	27.0	25.7	25.7	25.7	25.7
32.5°	30.7	27.0	24.5	23.2	23.2	23.8	23.2
35°	27.6	24.5	21.9	20.7	20.7	20.7	20.7
37.5°	25.1	21.9	19.4	18.2	18.2	18.2	17.6
40°	23.2	19.4	16.9	15.7	15.1	15.1	15.1
42.5°	20.1	16.3	14.4	13.2	12.5	12.5	12.5
45°	18.2	14.4	11.9	10.7	10.7	10.7	10.7
47.5°	16.3	12.5	10.0	8.8	8.8	9.4	9.4
50°	14.4	10.7	8.2	8.2	8.2	8.8	8.8
52.5°	12.5	9.4	7.5	7.5	8.2	8.8	8.8
55°	11.3	8.2	6.9	7.5	8.2	8.8	8.8
57.5°	10.0	6.9	6.9	7.5	8.2	8.8	8.8
60°	8.8	6.3	6.3	6.9	8.2	8.8	8.8
62.5°	7.5	6.3	6.3	6.9	8.2	8.8	8.8
65°	6.9	6.3	6.3	6.9	8.2	8.8	8.8
67.5°	6.3	5.6	6.3	6.9	7.5	8.2	8.2
70°	5.6	5.6	6.3	6.9	7.5	8.2	8.2
72.5°	5.6	5.6	5.6	6.3	6.9	7.5	7.5
75°	5.6	5.6	5.6	6.3	6.9	7.5	7.5
77.5°	5.6	5.0	5.0	5.6	6.9	7.5	7.5
80°	5.6	5.0	5.0	5.6	6.3	7.5	7.5
82.5°	4.4	4.4	5.0	5.6	6.3	6.9	6.9
85°	3.8	4.4	4.4	5.0	5.6	6.9	6.9
87.5°	3.1	3.1	3.8	4.4	5.0	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)