

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: P181218

Luminaire Tested: **ICS-E03-LED-E1-T2-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181218
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33723)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-E03-LED-E1-T2-HSS
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ HOUSE SIDE SHIELD
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4323.7 lumens
Efficiency: N/A
Efficacy: 57.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

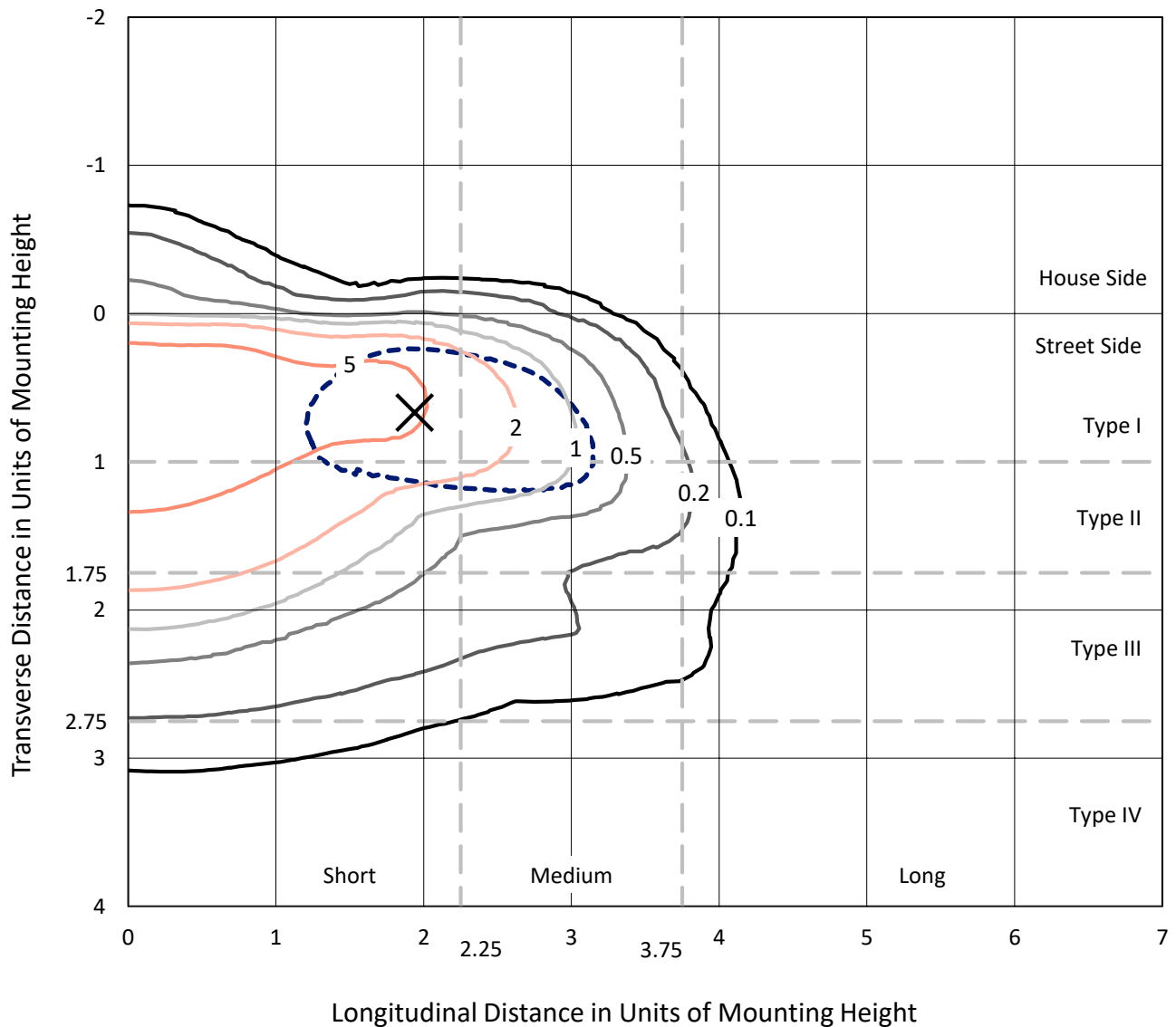
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

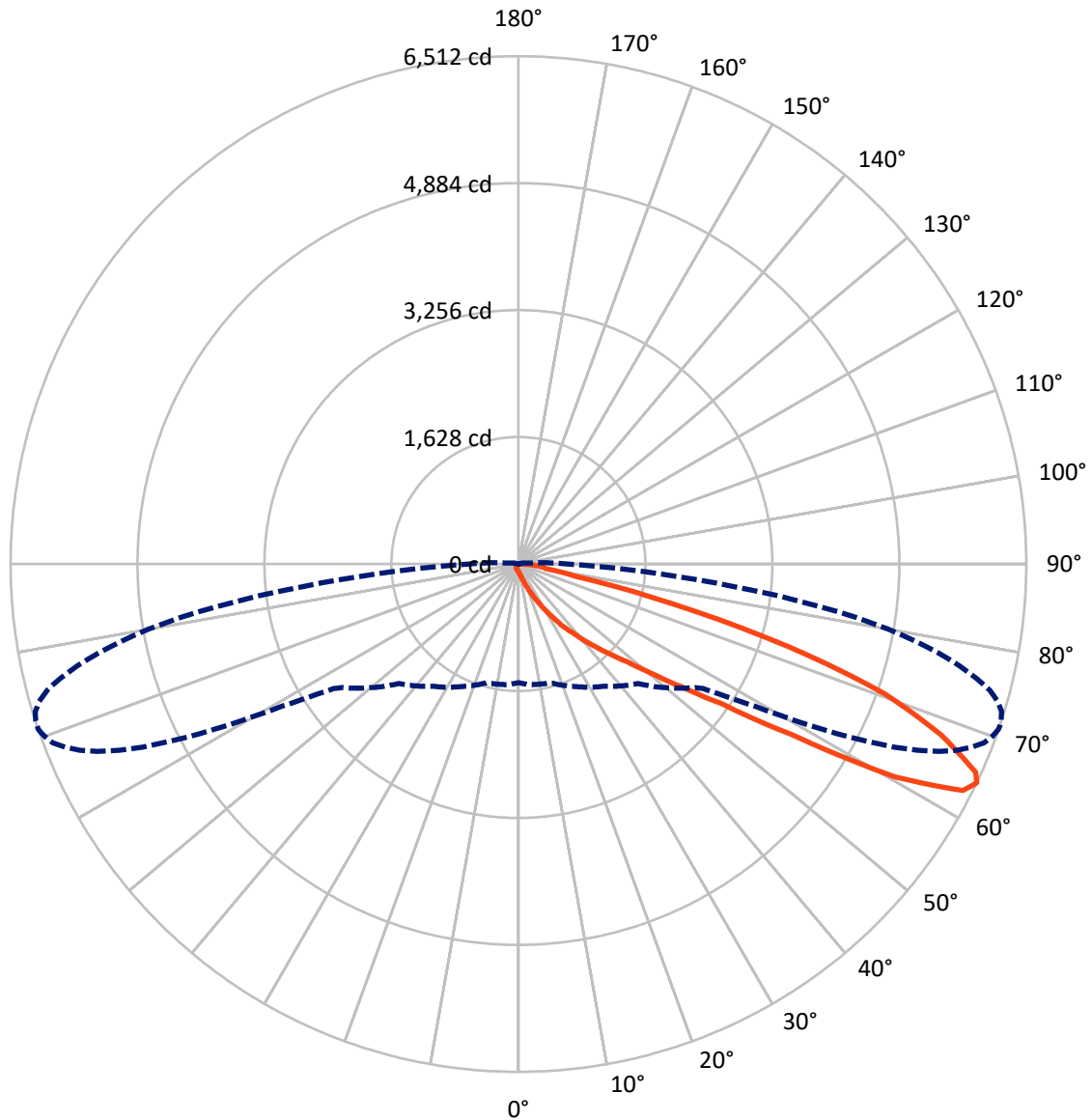
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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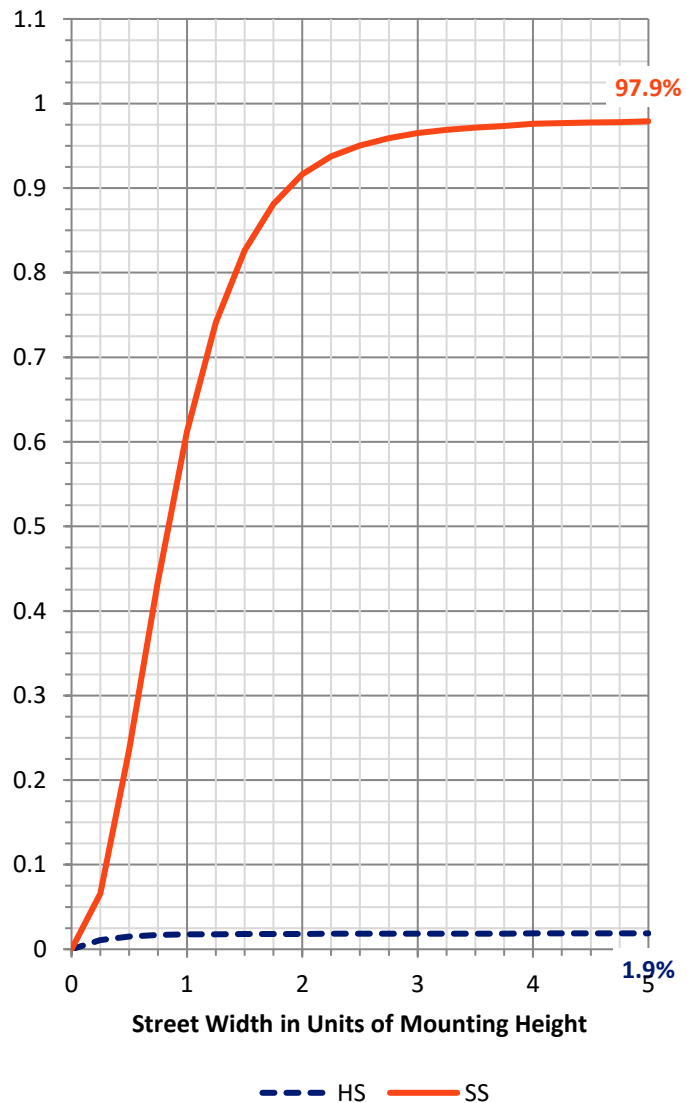
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	82.8	0.0	82.8
	% Fixture	1.9	0.0	1.9
Street Side	Lumens	4240.9	0.0	4240.9
	% Fixture	98.1	0.0	98.1
Total	Lumens	4323.7	0.0	4323.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.2	0.3
10°-20°	78.2	1.8
20°-30°	199.7	4.6
30°-40°	403.9	9.3
40°-50°	738.3	17.1
50°-60°	1150.2	26.6
60°-70°	1278.5	29.6
70°-80°	416.9	9.6
80°-90°	44.9	1.0
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°	4323.7	100.0
0°-180°	4323.7	100.0



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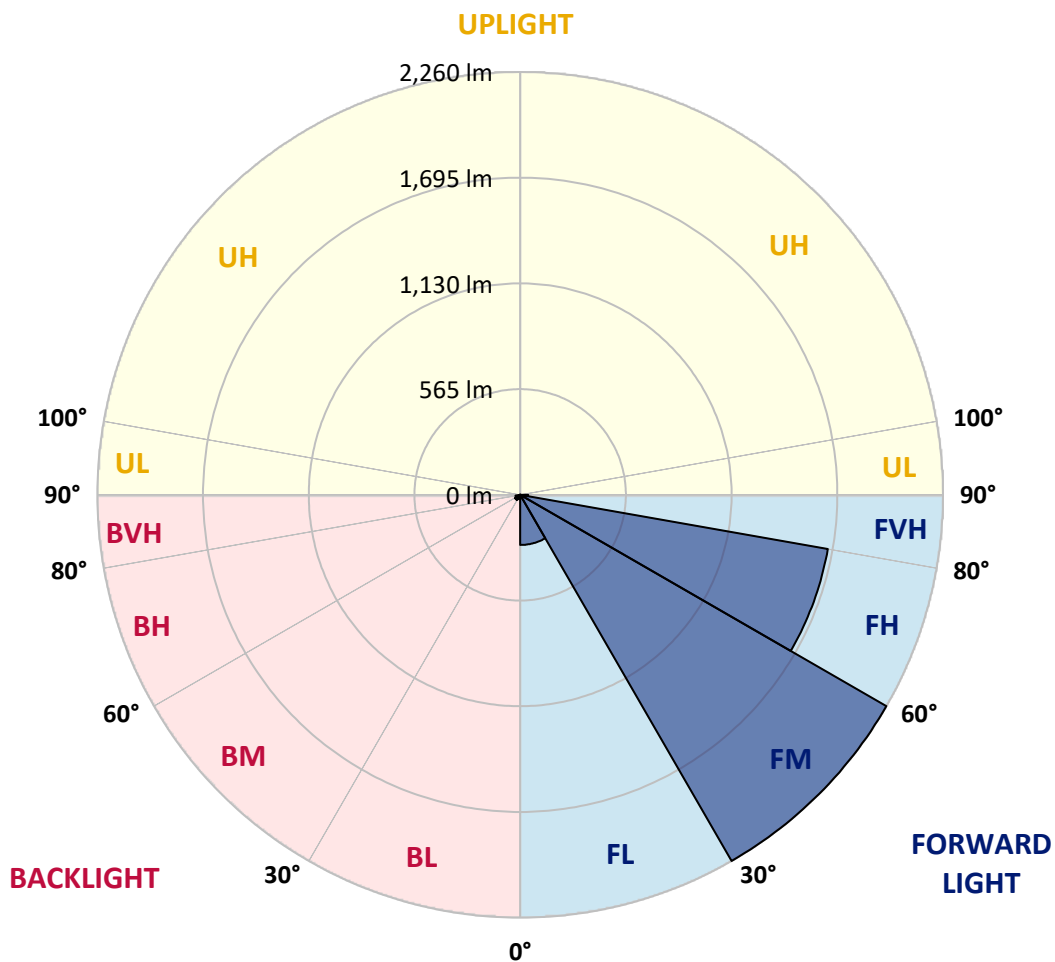
CATALOG NUMBER: ICS-E03-LED-E1-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	268.0	6.2			
FM	(30°-60°)	2260.3	52.3			
FH	(60°-80°)	1669.9	38.6			G1/1800
FVH	(80°-90°)	42.7	1.0			G1/100
BL	(0°-30°)	23.0	0.5	B0/110		
BM	(30°-60°)	32.0	0.7	B0/220		
BH	(60°-80°)	25.6	0.6	B0/110		G0/110
BVH	(80°-90°)	2.2	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
2.5°	129.6	127.8	127.8	125.1	121.5	117.9	114.3	113.4	112.5	111.6	111.6
5°	203.4	196.2	193.5	183.6	171.0	155.7	142.2	138.6	138.6	135.9	134.1
7.5°	319.5	315.9	297.0	287.1	257.4	220.5	181.8	178.2	177.3	173.7	168.3
10°	468.0	460.8	447.3	418.5	364.5	300.6	245.7	236.7	230.4	223.2	216.0
12.5°	616.5	607.5	587.7	540.9	486.9	405.0	316.8	308.7	298.8	288.9	277.2
15°	765.0	758.7	728.1	681.3	611.1	513.0	401.4	387.0	378.9	359.1	350.1
17.5°	893.7	885.6	861.3	808.2	735.3	627.3	495.0	477.0	463.5	451.8	430.2
20°	1005.4	997.3	973.9	929.8	847.8	741.6	595.8	586.8	562.5	544.5	531.9
22.5°	1073.8	1071.1	1055.8	1013.5	940.6	846.0	711.0	696.6	680.4	656.1	641.7
25°	1116.1	1113.4	1104.4	1074.7	1025.2	955.9	837.9	819.9	805.5	783.9	765.9
27.5°	1160.2	1158.4	1151.2	1125.1	1099.0	1055.8	966.7	956.8	925.3	912.6	895.5
30°	1233.1	1225.0	1231.3	1218.7	1185.4	1158.4	1096.3	1081.9	1068.4	1046.8	1031.5
32.5°	1349.2	1335.7	1349.2	1335.7	1321.3	1288.9	1229.5	1225.0	1211.5	1198.0	1176.4
35°	1491.4	1486.0	1496.8	1508.5	1496.8	1453.6	1381.6	1368.1	1362.7	1341.1	1333.0
37.5°	1634.5	1644.4	1664.2	1690.3	1683.1	1651.6	1549.9	1537.3	1527.4	1508.5	1494.1
40°	1788.4	1789.3	1831.6	1869.4	1888.3	1869.4	1735.3	1725.4	1711.9	1684.9	1681.3
42.5°	1955.8	1948.6	1980.1	2022.4	2061.1	2087.2	1980.1	1961.2	1942.3	1911.7	1891.0
45°	2104.3	2104.3	2129.5	2169.1	2228.5	2294.2	2238.4	2218.6	2200.6	2175.4	2152.0
47.5°	2214.1	2215.0	2230.3	2287.9	2380.6	2478.7	2480.5	2484.1	2470.6	2440.9	2441.8
50°	2291.5	2281.6	2302.3	2358.1	2465.2	2619.1	2729.8	2736.1	2746.9	2722.6	2729.8
52.5°	2348.2	2343.7	2357.2	2404.0	2511.1	2699.2	2934.2	2961.2	2977.4	2981.0	3010.7
55°	2318.5	2321.2	2353.6	2421.1	2536.3	2752.3	3107.9	3152.0	3189.8	3222.2	3259.1
57.5°	2220.4	2228.5	2285.2	2390.5	2541.7	2795.6	3292.4	3359.9	3431.0	3517.4	3590.3
60°	2063.8	2082.7	2159.2	2306.8	2489.5	2738.8	3347.3	3450.8	3559.7	3691.1	3837.8
62.5°	1834.3	1837.9	1888.3	2031.4	2233.0	2437.3	3095.3	3227.6	3371.6	3561.5	3766.7
64°	1520.2	1552.6	1576.0	1733.5	1913.5	2168.2	2762.3	2854.1	3054.8	3287.9	3546.2
65°	1254.7	1293.4	1312.3	1469.8	1675.9	1918.9	2472.4	2570.5	2782.1	3018.8	3341.0
67.5°	739.8	713.7	768.6	861.3	1034.2	1322.2	1667.8	1742.5	1900.0	2181.7	2439.1
70°	477.0	477.0	527.4	621.9	782.1	1002.7	1145.8	1114.3	1147.6	1256.5	1438.3
72.5°	306.0	322.2	352.8	432.9	581.4	840.6	1171.0	1022.5	945.1	909.0	907.2
75°	139.5	148.5	181.8	229.5	310.5	548.1	1180.9	1116.1	1045.0	976.6	923.5
77.5°	29.7	34.2	57.6	118.8	151.2	252.9	837.9	935.2	1012.6	1035.1	1035.1
80°	15.3	16.2	24.3	55.8	64.8	85.5	323.1	424.8	523.8	654.3	791.1
82.5°	6.3	7.2	14.4	25.2	27.0	26.1	85.5	108.0	148.5	216.0	322.2
85°	1.8	1.8	6.3	9.9	14.4	11.7	18.9	21.6	27.9	40.5	77.4
87.5°	0.0	0.0	0.9	1.8	2.7	4.5	5.4	5.4	5.4	5.4	5.4
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°	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
2.5°	110.7	110.7	109.8	108.9	108.9	107.1	107.1	106.2	106.2	105.3	105.3
5°	133.2	131.4	129.6	126.9	126.0	124.2	122.4	120.6	118.8	117.9	116.1
7.5°	165.6	163.8	158.4	154.8	150.3	147.6	144.0	141.3	138.6	136.8	133.2
10°	208.8	202.5	199.8	187.2	184.5	178.2	172.8	169.2	162.0	157.5	153.0
12.5°	270.0	258.3	253.8	232.2	225.9	216.9	210.6	201.6	193.5	188.1	180.0
15°	339.3	330.3	313.2	291.6	279.9	270.0	254.7	247.5	236.7	225.0	213.3
17.5°	422.1	405.9	387.0	359.1	344.7	329.4	315.0	299.7	281.7	270.9	258.3
20°	518.4	501.3	477.9	442.8	425.7	410.4	385.2	374.4	352.8	331.2	315.0
22.5°	623.7	606.6	584.1	544.5	522.0	496.8	476.1	457.2	432.0	410.4	391.5
25°	742.5	722.7	705.6	659.7	631.8	605.7	583.2	549.9	528.3	503.1	477.0
27.5°	877.5	854.1	831.6	781.2	755.1	726.3	699.3	664.2	643.5	602.1	577.8
30°	1016.2	987.4	964.0	912.6	889.2	859.5	822.6	791.1	756.0	728.1	688.5
32.5°	1162.0	1138.6	1119.7	1065.7	1036.0	999.1	965.8	932.5	901.8	856.8	820.8
35°	1317.7	1297.0	1276.3	1229.5	1203.4	1175.5	1137.7	1097.2	1054.9	1008.1	975.7
37.5°	1481.5	1465.3	1449.1	1392.4	1361.8	1332.1	1288.9	1248.4	1210.6	1161.1	1106.2
40°	1653.4	1638.1	1612.0	1565.2	1532.8	1505.8	1466.2	1428.4	1377.1	1322.2	1273.6
42.5°	1869.4	1836.1	1813.6	1762.3	1728.1	1698.4	1663.3	1606.6	1563.4	1497.7	1450.9
45°	2122.3	2090.8	2053.9	2001.7	1959.4	1910.8	1861.3	1822.6	1768.6	1709.2	1648.9
47.5°	2406.7	2381.5	2338.3	2287.0	2244.7	2196.1	2137.6	2088.1	2022.4	1953.1	1871.2
50°	2719.9	2693.8	2665.0	2607.4	2565.1	2519.2	2473.3	2414.8	2355.4	2272.6	2188.0
52.5°	3010.7	3016.1	2999.0	2972.0	2951.3	2903.6	2861.3	2805.5	2753.2	2677.6	2611.9
55°	3297.8	3344.6	3362.6	3388.7	3397.7	3359.0	3358.1	3276.2	3244.7	3200.6	3162.8
57.5°	3676.7	3780.2	3862.1	4020.5	4087.1	4154.6	4167.2	4109.6	4169.0	4092.5	4118.6
60°	3998.9	4188.8	4392.2	4801.8	5007.0	5161.8	5286.0	5377.8	5437.2	5538.0	5543.4
62.5°	4027.7	4326.5	4636.2	5233.8	5514.6	5749.5	5973.6	6130.2	6254.4	6368.7	6396.6
64°	3890.0	4259.9	4636.2	5358.9	5646.0	5907.0	6111.3	6267.0	6393.9	6465.1	6511.9
65°	3639.8	4053.8	4486.7	5276.1	5572.2	5849.4	6044.7	6201.3	6321.0	6392.1	6440.8
67.5°	2696.5	3097.1	3531.8	4450.7	4917.0	5170.8	5421.0	5640.6	5736.9	5826.9	5844.0
70°	1643.5	1934.2	2233.9	3086.3	3519.2	3975.5	4257.2	4578.5	4803.6	4942.2	4988.1
72.5°	991.9	1092.7	1271.8	1729.9	2144.8	2465.2	2855.0	3161.9	3413.9	3553.4	3623.6
75°	882.9	870.3	893.7	1084.6	1232.2	1424.8	1566.1	1758.7	1914.4	1963.0	2053.9
77.5°	1020.7	984.7	947.8	911.7	904.5	886.5	857.7	864.9	796.5	730.8	732.6
80°	909.0	995.5	1046.8	1009.0	923.5	837.0	730.8	598.5	468.0	387.0	352.8
82.5°	456.3	648.9	834.3	1018.0	1005.4	928.9	811.8	666.9	516.6	396.9	316.8
85°	140.4	249.3	351.0	487.8	566.1	555.3	487.8	474.3	338.4	263.7	203.4
87.5°	6.3	6.3	6.3	5.4	6.3	6.3	6.3	7.2	7.2	8.1	8.1
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
2.5°	105.3	104.4	103.5	102.6	102.6	102.6	101.7	101.7	100.8	100.8	99.9
5°	116.1	114.3	113.4	111.6	111.6	109.8	108.9	108.0	106.2	105.3	104.4
7.5°	130.5	128.7	126.0	123.3	122.4	119.7	117.0	115.2	113.4	111.6	109.8
10°	149.4	145.8	140.4	136.8	134.1	130.5	126.9	124.2	120.6	117.0	115.2
12.5°	173.7	166.5	161.1	154.8	149.4	144.0	137.7	134.1	130.5	125.1	121.5
15°	201.6	194.4	188.1	177.3	168.3	161.1	155.7	147.6	141.3	134.1	128.7
17.5°	249.3	230.4	217.8	207.0	198.0	184.5	173.7	164.7	156.6	147.6	141.3
20°	296.1	279.9	262.8	250.2	230.4	218.7	204.3	191.7	177.3	166.5	155.7
22.5°	364.5	343.8	322.2	303.3	276.3	260.1	241.2	225.0	207.0	189.0	177.3
25°	450.9	420.3	391.5	364.5	339.3	315.0	290.7	264.6	245.7	224.1	204.3
27.5°	541.8	507.6	479.7	444.6	412.2	382.5	351.9	324.0	291.6	263.7	240.3
30°	656.1	609.3	576.9	534.6	502.2	460.8	423.0	386.1	346.5	314.1	280.8
32.5°	772.2	740.7	685.8	649.8	601.2	551.7	512.1	469.8	421.2	378.9	338.4
35°	925.3	871.2	825.3	774.9	721.8	670.5	619.2	558.9	509.4	457.2	407.7
37.5°	1060.3	1005.4	952.3	886.5	826.2	772.2	710.1	647.1	588.6	526.5	467.1
40°	1216.9	1148.5	1085.5	1024.3	949.6	885.6	820.8	742.5	675.0	606.6	536.4
42.5°	1387.9	1318.6	1243.9	1173.7	1091.8	1013.5	933.4	855.0	779.4	696.6	614.7
45°	1575.1	1502.2	1418.5	1338.4	1249.3	1162.9	1067.5	977.5	888.3	795.6	701.1
47.5°	1807.3	1713.7	1636.3	1536.4	1425.7	1334.8	1217.8	1115.2	1013.5	905.4	799.2
50°	2107.9	2001.7	1890.1	1779.4	1657.0	1541.8	1412.2	1290.7	1154.8	1034.2	912.6
52.5°	2506.6	2427.4	2297.8	2170.9	2021.5	1874.8	1696.6	1539.1	1364.5	1210.6	1062.1
55°	3072.8	3020.6	2908.1	2769.5	2638.9	2424.7	2219.5	1974.7	1747.9	1526.5	1317.7
57.5°	4097.9	4041.2	3916.1	3882.8	3682.1	3524.6	3284.3	2967.5	2583.1	2244.7	1907.2
60°	5574.0	5463.3	5340.9	5318.4	5082.6	4917.0	4678.5	4340.9	3979.1	3439.1	2979.2
62.5°	6398.4	6365.1	6266.1	6144.6	5940.3	5694.6	5426.4	5099.7	4732.5	4259.0	3711.8
64°	6509.2	6478.6	6393.0	6256.2	6051.0	5807.1	5510.1	5184.3	4816.2	4384.1	3884.6
65°	6439.9	6396.6	6323.7	6197.7	6006.9	5772.9	5474.1	5143.8	4770.3	4354.4	3890.0
67.5°	5880.9	5861.1	5794.5	5677.5	5557.8	5347.2	5084.4	4789.2	4484.0	4071.8	3691.1
70°	4993.5	4979.1	4894.5	4847.7	4649.7	4516.4	4304.0	4071.8	3801.8	3514.7	3190.7
72.5°	3701.9	3653.3	3584.9	3513.8	3379.7	3197.0	3031.4	2783.9	2644.3	2402.2	2219.5
75°	1963.0	1932.4	1826.2	1677.7	1512.1	1426.6	1254.7	1100.8	978.4	923.5	791.1
77.5°	678.6	618.3	558.9	492.3	390.6	307.8	245.7	196.2	154.8	136.8	114.3
80°	338.4	321.3	302.4	264.6	222.3	179.1	140.4	110.7	90.9	77.4	69.3
82.5°	274.5	243.0	216.9	189.9	152.1	125.1	99.0	81.0	66.6	58.5	51.3
85°	162.0	124.2	94.5	85.5	66.6	57.6	49.5	42.3	36.0	34.2	31.5
87.5°	6.3	8.1	8.1	6.3	8.1	7.2	7.2	6.3	6.3	6.3	6.3
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
2.5°	99.9	99.0	99.0	98.1	97.2	97.2	97.2	96.3	94.5	90.9	88.2
5°	103.5	102.6	101.7	99.9	99.0	98.1	97.2	97.2	92.7	86.4	81.9
7.5°	108.0	106.2	104.4	102.6	101.7	99.9	98.1	97.2	90.9	82.8	78.3
10°	112.5	109.8	107.1	106.2	103.5	101.7	99.0	97.2	90.0	80.1	73.8
12.5°	117.9	114.3	110.7	108.0	104.4	102.6	99.9	97.2	88.2	77.4	70.2
15°	124.2	118.8	114.3	111.6	108.0	103.5	99.9	97.2	86.4	74.7	66.6
17.5°	132.3	126.0	120.6	115.2	109.8	105.3	101.7	98.1	83.7	71.1	62.1
20°	144.9	136.8	127.8	121.5	114.3	108.9	102.6	98.1	81.9	67.5	58.5
22.5°	162.0	149.4	139.5	128.7	119.7	112.5	105.3	99.9	79.2	63.9	54.0
25°	186.3	170.1	153.9	140.4	128.7	118.8	109.8	102.6	77.4	61.2	51.3
27.5°	213.3	194.4	172.8	156.6	140.4	126.0	116.1	107.1	77.4	59.4	48.6
30°	251.1	224.1	198.0	177.3	155.7	139.5	125.1	113.4	77.4	58.5	45.9
32.5°	297.0	266.4	233.1	203.4	178.2	154.8	136.8	121.5	79.2	56.7	44.1
35°	360.9	315.9	276.3	239.4	206.1	179.1	155.7	135.0	81.9	55.8	41.4
37.5°	411.3	357.3	306.9	264.6	225.9	192.6	162.9	140.4	79.2	52.2	38.7
40°	471.6	410.4	349.2	296.1	252.0	208.8	174.6	147.6	77.4	47.7	35.1
42.5°	544.5	468.0	396.9	336.6	281.7	230.4	189.9	156.6	77.4	45.0	32.4
45°	612.9	529.2	450.0	374.4	310.5	253.8	204.3	166.5	76.5	42.3	28.8
47.5°	697.5	598.5	505.8	418.5	344.7	275.4	219.6	175.5	75.6	39.6	26.1
50°	797.4	676.8	572.4	468.0	378.0	301.5	237.6	185.4	73.8	36.9	23.4
52.5°	908.1	778.5	645.3	524.7	419.4	329.4	254.7	194.4	71.1	34.2	20.7
55°	1104.4	926.2	768.6	619.2	482.4	370.8	279.9	207.9	68.4	31.5	18.0
57.5°	1575.1	1279.9	1056.7	831.6	635.4	476.1	348.3	246.6	64.8	27.9	14.4
60°	2473.3	1986.4	1607.5	1261.0	961.3	730.8	513.0	364.5	69.3	23.4	12.6
62.5°	3172.7	2612.8	2130.4	1695.7	1316.8	1000.9	747.0	544.5	99.9	20.7	9.9
64°	3355.4	2788.4	2273.5	1818.1	1423.9	1098.1	833.4	615.6	128.7	20.7	9.0
65°	3382.4	2842.4	2324.8	1863.1	1460.8	1124.2	858.6	639.0	140.4	21.6	8.1
67.5°	3270.8	2810.9	2340.1	1882.0	1488.7	1160.2	892.8	675.9	158.4	20.7	6.3
70°	2856.8	2518.3	2131.3	1760.5	1404.1	1102.6	858.6	655.2	165.6	19.8	5.4
72.5°	1944.1	1711.0	1482.4	1219.6	977.5	805.5	626.4	461.7	116.1	16.2	4.5
75°	648.0	631.8	565.2	428.4	360.0	292.5	234.0	180.0	44.1	9.9	4.5
77.5°	108.0	92.7	81.0	77.4	64.8	63.0	54.9	44.1	18.9	6.3	4.5
80°	63.0	57.6	50.4	45.0	39.6	35.1	29.7	25.2	11.7	4.5	5.4
82.5°	46.8	41.4	36.9	32.4	27.9	24.3	20.7	17.1	6.3	4.5	5.4
85°	27.0	23.4	20.7	18.0	14.4	12.6	10.8	9.0	4.5	4.5	4.5
87.5°	5.4	5.4	4.5	4.5	4.5	4.5	4.5	3.6	4.5	4.5	3.6
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-E03-LED-E1-T2-HSS

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	96.3	96.3	96.3	96.3	96.3	96.3	96.3
2.5°	86.4	83.7	82.8	82.8	82.8	82.8	82.8
5°	79.2	76.5	74.7	73.8	73.8	73.8	73.8
7.5°	73.8	70.2	68.4	66.6	66.6	65.7	65.7
10°	68.4	64.8	62.1	60.3	59.4	59.4	59.4
12.5°	63.9	60.3	56.7	54.9	54.9	54.0	54.0
15°	60.3	54.9	52.2	50.4	50.4	49.5	49.5
17.5°	55.8	51.3	48.6	46.8	45.9	45.9	45.9
20°	51.3	46.8	44.1	43.2	42.3	42.3	41.4
22.5°	47.7	43.2	40.5	39.6	38.7	38.7	37.8
25°	44.1	39.6	36.9	36.0	35.1	34.2	34.2
27.5°	41.4	36.9	34.2	32.4	31.5	30.6	30.6
30°	38.7	33.3	30.6	28.8	27.9	27.0	27.0
32.5°	36.0	30.6	27.0	25.2	24.3	23.4	23.4
35°	32.4	27.0	23.4	22.5	21.6	20.7	19.8
37.5°	29.7	23.4	20.7	18.9	18.0	17.1	17.1
40°	26.1	20.7	18.0	16.2	14.4	13.5	13.5
42.5°	23.4	18.0	15.3	12.6	11.7	10.8	10.8
45°	20.7	16.2	12.6	9.9	9.0	8.1	8.1
47.5°	18.0	13.5	9.9	8.1	7.2	6.3	6.3
50°	15.3	10.8	7.2	5.4	6.3	5.4	5.4
52.5°	13.5	8.1	5.4	5.4	5.4	5.4	5.4
55°	10.8	6.3	4.5	4.5	5.4	5.4	5.4
57.5°	9.0	4.5	3.6	4.5	4.5	4.5	4.5
60°	6.3	3.6	3.6	4.5	4.5	4.5	4.5
62.5°	5.4	3.6	3.6	3.6	4.5	4.5	4.5
64°	4.5	3.6	3.6	3.6	4.5	4.5	4.5
65°	4.5	3.6	3.6	3.6	4.5	4.5	4.5
67.5°	4.5	3.6	3.6	3.6	4.5	4.5	4.5
70°	3.6	3.6	3.6	3.6	4.5	4.5	4.5
72.5°	3.6	3.6	3.6	3.6	4.5	4.5	4.5
75°	3.6	3.6	3.6	3.6	4.5	4.5	4.5
77.5°	3.6	3.6	3.6	4.5	4.5	4.5	4.5
80°	3.6	3.6	3.6	4.5	4.5	4.5	4.5
82.5°	3.6	3.6	3.6	4.5	4.5	4.5	4.5
85°	3.6	3.6	3.6	4.5	4.5	4.5	4.5
87.5°	3.6	3.6	3.6	4.5	4.5	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)