

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: P180436

Luminaire Tested: **ICS-E03-LED-E1-SL2-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180436
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
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-SL2-HSS-8030
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4178.5 lumens
Efficiency: N/A
Efficacy: 55.6 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

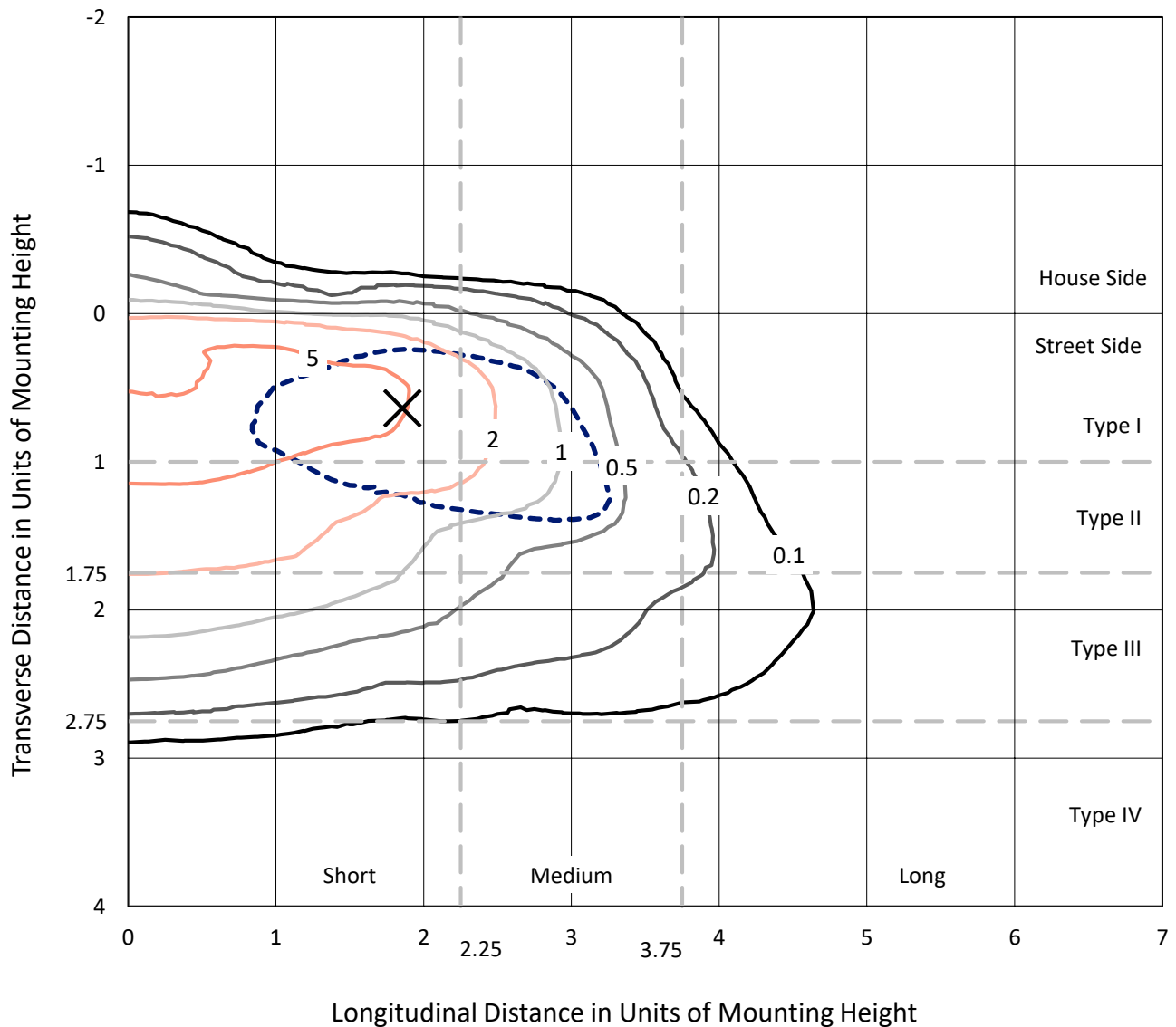
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

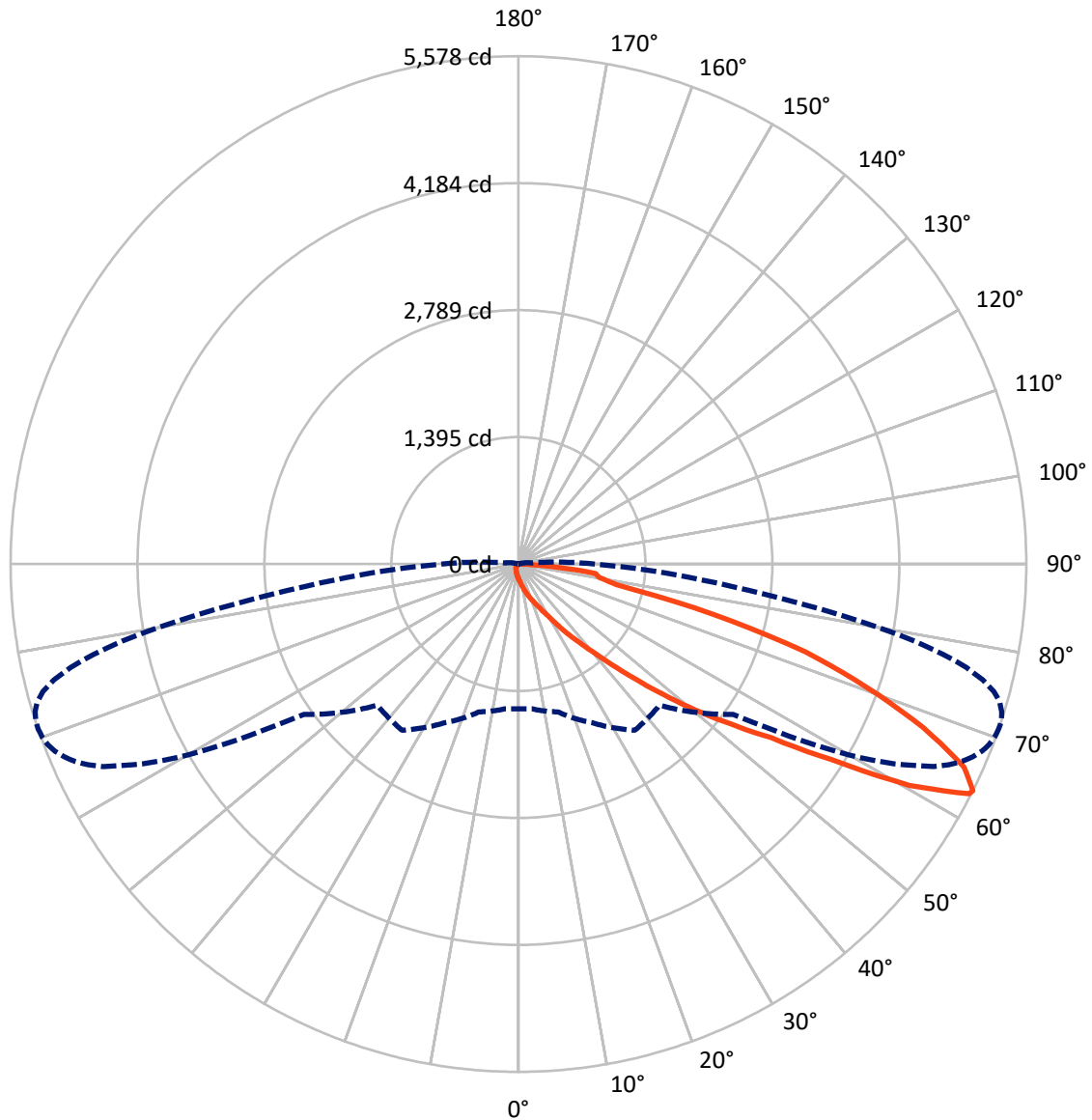
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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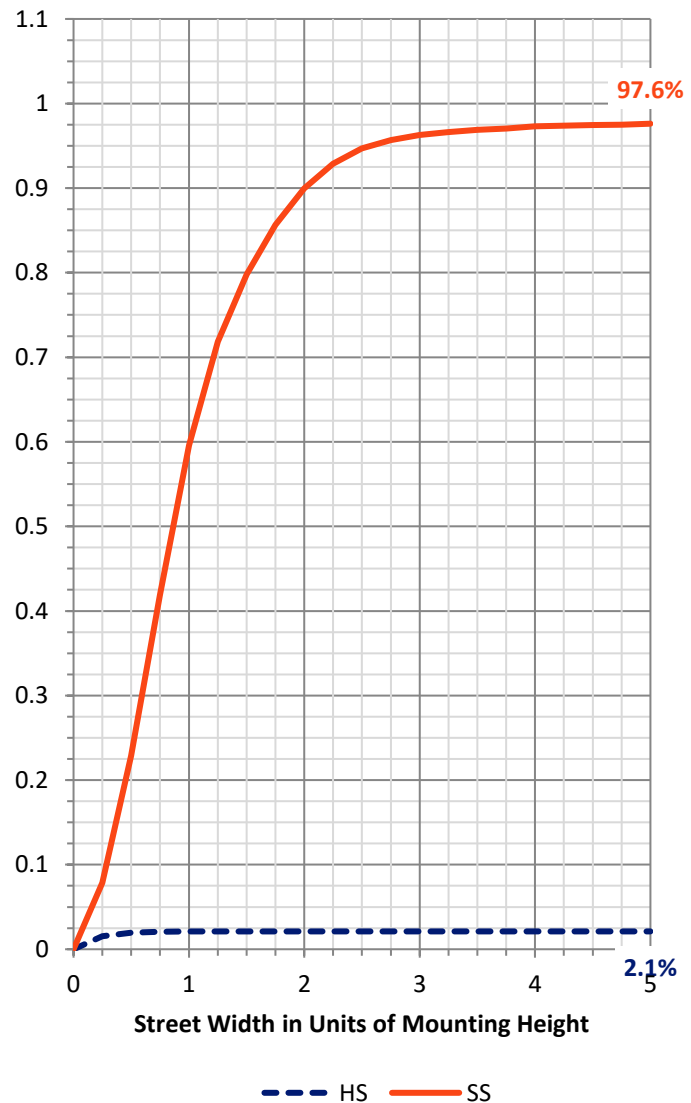
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	88.7	0.0	88.7
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	4089.8	0.0	4089.8
	% Fixture	97.9	0.0	97.9
Total	Lumens	4178.5	0.0	4178.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.7	0.4
10°-20°	68.7	1.6
20°-30°	139.6	3.3
30°-40°	341.0	8.2
40°-50°	762.5	18.2
50°-60°	1072.2	25.7
60°-70°	1260.8	30.2
70°-80°	455.3	10.9
80°-90°	60.9	1.5
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°	4178.5	100.0
0°-180°	4178.5	100.0



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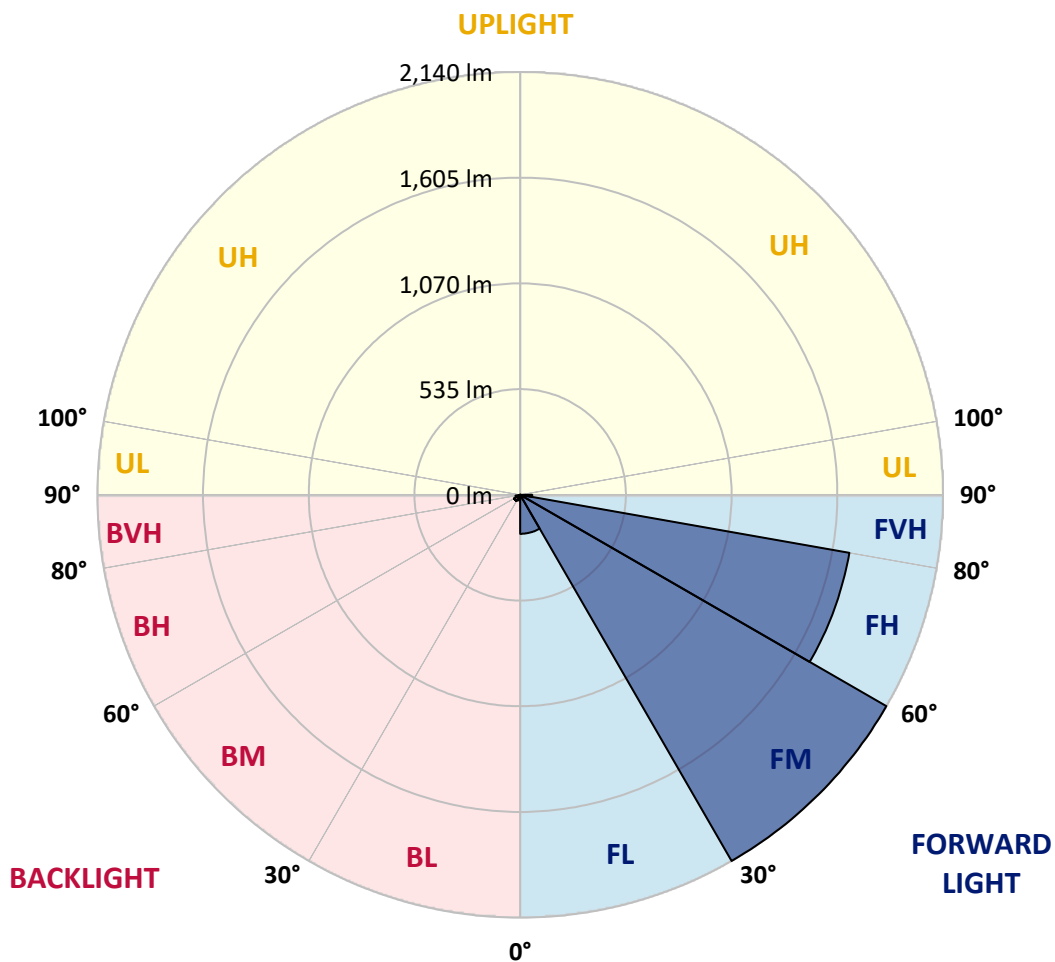
CATALOG NUMBER: ICS-E03-LED-E1-SL2-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	197.5	4.7			
FM	(30°-60°)	2139.9	51.2			
FH	(60°-80°)	1691.7	40.5			G1/1800
FVH	(80°-90°)	60.8	1.5			G1/100
BL	(0°-30°)	28.5	0.7	B0/110		
BM	(30°-60°)	35.7	0.9	B0/220		
BH	(60°-80°)	24.3	0.6	B0/110		G0/110
BVH	(80°-90°)	0.1	0.0			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°	160.3	160.3	160.3	160.3	160.3	160.3	160.3	160.3	160.3	160.3	160.3
2.5°	209.7	211.9	210.4	206.6	202.1	196.0	190.7	190.7	189.9	187.6	188.4
5°	275.0	275.7	272.7	263.6	255.2	242.3	227.9	226.4	224.9	222.6	221.8
7.5°	338.8	341.8	338.8	328.9	312.2	292.5	269.7	267.4	262.8	262.8	259.8
10°	404.1	404.1	401.1	389.7	374.5	346.4	317.5	313.7	308.4	306.9	302.3
12.5°	450.5	450.5	448.9	442.9	430.7	405.6	370.7	366.9	360.1	357.8	352.5
15°	468.7	468.7	469.5	474.8	475.5	464.1	427.7	424.6	417.8	411.7	409.4
17.5°	480.1	479.3	479.3	486.9	500.6	508.2	484.6	481.6	474.0	471.0	463.4
20°	505.2	503.6	499.1	499.1	512.0	538.6	538.6	537.8	529.5	527.2	523.4
22.5°	542.4	540.9	527.2	515.8	521.9	555.3	586.4	584.9	581.9	578.8	576.6
25°	603.1	597.8	574.3	540.9	535.5	571.2	622.9	626.7	629.0	629.0	630.5
27.5°	695.1	688.2	646.4	584.2	560.6	597.1	663.2	670.8	677.6	679.1	685.9
30°	822.7	810.5	750.5	659.4	605.4	635.1	722.4	730.8	740.6	743.7	754.3
32.5°	1032.3	1025.5	967.8	831.0	715.6	709.5	805.2	815.8	828.8	834.1	847.0
35°	1351.4	1352.9	1305.8	1182.7	1023.2	939.7	953.3	962.5	967.0	983.0	989.8
37.5°	1567.9	1571.7	1582.3	1533.7	1419.8	1334.7	1227.6	1237.4	1213.9	1216.2	1216.9
40°	1686.4	1698.5	1760.8	1807.9	1798.8	1749.4	1663.6	1668.9	1624.9	1615.0	1567.1
42.5°	1765.4	1781.3	1880.9	2026.7	2101.1	2146.0	2126.2	2123.9	2089.8	2076.8	2036.6
45°	1814.8	1829.2	1954.5	2169.5	2341.2	2471.8	2525.8	2531.9	2503.0	2490.1	2456.7
47.5°	1812.5	1829.2	1963.7	2222.7	2475.6	2684.5	2836.5	2844.1	2861.5	2850.1	2852.4
50°	1712.2	1728.2	1863.4	2132.3	2436.1	2781.8	3059.8	3084.1	3112.2	3131.2	3140.3
52.5°	1590.7	1602.1	1722.1	1977.3	2267.5	2741.5	3192.0	3233.8	3275.5	3311.2	3336.3
55°	1545.9	1558.8	1653.0	1864.9	2132.3	2572.9	3253.5	3315.0	3374.3	3432.8	3480.6
57.5°	1569.4	1581.6	1649.2	1811.7	2051.8	2395.1	3271.0	3366.7	3463.9	3558.9	3653.1
60°	1656.0	1668.9	1726.6	1861.1	2030.5	2292.6	3202.6	3361.4	3523.2	3688.8	3844.5
62.5°	1621.8	1627.1	1712.2	1947.7	2182.4	2205.2	2954.2	3176.0	3422.9	3678.1	3929.6
63°	1589.2	1595.2	1681.8	1924.2	2228.8	2192.3	2877.5	3111.5	3372.0	3647.0	3920.5
65°	1441.0	1441.8	1507.9	1699.3	2177.1	2215.1	2535.7	2759.0	3058.3	3388.0	3733.6
67.5°	1075.6	1070.3	1134.1	1280.0	1709.2	2215.8	2176.3	2301.7	2509.8	2802.3	3112.2
70°	381.3	373.0	476.3	678.4	1065.0	1812.5	1870.2	1878.6	1936.3	2094.3	2288.8
72.5°	123.8	126.1	151.9	248.4	490.7	1220.0	1693.2	1667.4	1652.2	1651.4	1677.3
75°	49.4	50.1	60.8	110.1	220.3	588.0	1482.8	1497.2	1502.6	1510.2	1518.5
77.5°	23.5	25.8	34.2	61.5	109.4	290.9	1061.2	1183.5	1253.4	1307.3	1340.0
80°	8.4	9.9	19.0	38.0	50.9	133.7	559.1	674.6	777.1	909.3	1023.2
82.5°	0.0	0.0	3.8	26.6	28.1	53.9	229.4	268.9	307.7	398.8	512.0
85°	0.0	0.0	0.0	7.6	8.4	9.1	77.5	93.4	104.8	122.3	141.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3	4.6	11.4	17.5
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	160.3	160.3	160.3	160.3	160.3	160.3	160.3	160.3	160.3	160.3	160.3
2.5°	186.9	186.1	186.1	184.6	183.8	182.3	181.6	179.3	178.5	178.5	178.5
5°	221.1	218.0	216.5	212.7	210.4	209.7	205.9	204.3	202.1	202.8	199.0
7.5°	259.0	253.7	251.4	246.1	244.6	239.3	237.8	234.0	231.7	227.1	225.6
10°	300.8	294.0	290.2	281.8	279.5	275.7	271.2	266.6	262.8	258.3	256.0
12.5°	348.7	342.6	339.6	328.2	322.8	317.5	311.4	305.4	299.3	295.5	290.2
15°	404.9	395.0	392.0	381.3	372.2	365.4	357.0	349.4	344.9	337.3	332.0
17.5°	460.3	450.5	448.2	432.2	422.4	417.8	408.7	398.8	390.5	382.9	374.5
20°	515.8	509.0	502.9	487.7	477.0	469.5	457.3	447.4	440.6	430.0	419.3
22.5°	571.2	564.4	559.8	543.9	534.0	523.4	512.8	502.1	492.2	479.3	467.2
25°	628.2	623.7	621.4	606.9	597.8	588.0	577.3	565.2	553.0	538.6	525.7
27.5°	687.5	689.0	684.4	681.4	671.5	664.7	648.0	639.6	630.5	613.0	597.1
30°	762.7	767.2	765.7	768.0	761.9	757.4	744.4	733.8	723.2	706.5	688.2
32.5°	857.6	863.7	866.7	875.1	872.1	870.5	866.7	851.5	844.0	815.1	807.5
35°	1004.2	1001.2	1014.1	1020.9	1017.9	1016.4	1011.8	1003.5	994.4	973.8	954.9
37.5°	1194.9	1197.9	1202.5	1188.8	1179.7	1179.0	1165.3	1156.9	1144.0	1121.2	1098.4
40°	1544.3	1525.3	1504.1	1446.3	1421.3	1406.8	1366.6	1355.2	1333.2	1302.0	1278.5
42.5°	1998.6	1979.6	1915.8	1819.3	1767.7	1696.3	1663.6	1623.3	1592.2	1541.3	1513.9
45°	2449.8	2395.1	2387.5	2275.1	2211.3	2117.1	2058.6	1991.0	1920.4	1853.5	1804.9
47.5°	2830.4	2818.2	2781.0	2712.6	2653.4	2574.4	2499.2	2395.1	2322.2	2227.2	2139.9
50°	3135.0	3134.2	3120.6	3081.1	3031.7	2967.9	2901.8	2813.7	2730.9	2614.7	2521.2
52.5°	3362.9	3375.1	3379.6	3367.5	3348.5	3292.3	3258.8	3185.1	3115.3	3016.5	2915.5
55°	3530.0	3574.8	3597.6	3623.5	3618.1	3598.4	3596.9	3549.0	3517.1	3438.9	3367.5
57.5°	3736.6	3810.3	3881.0	4006.3	4010.9	4054.9	4077.7	4100.5	4106.6	4075.4	4051.9
60°	3999.5	4149.9	4283.6	4545.6	4614.0	4721.9	4791.8	4867.7	4932.3	4937.6	4936.1
62.5°	4184.8	4416.5	4632.2	5021.2	5154.1	5278.7	5372.1	5445.8	5490.6	5536.2	5557.5
63°	4190.1	4443.9	4673.3	5074.3	5214.1	5332.6	5421.5	5489.9	5537.0	5564.3	5578.0
65°	4061.8	4369.4	4642.9	5042.4	5173.9	5293.1	5339.5	5384.3	5407.1	5417.7	5377.4
67.5°	3442.7	3743.5	4062.5	4509.2	4621.6	4764.4	4802.4	4825.2	4835.8	4833.5	4799.4
70°	2574.4	2826.6	3181.3	3691.8	3840.7	3980.5	4067.1	4104.3	4116.5	4112.7	4061.8
72.5°	1797.3	1945.4	2237.9	2806.1	3008.9	3188.2	3295.3	3350.7	3362.1	3339.3	3292.3
75°	1509.4	1517.0	1583.1	1893.8	2083.7	2275.1	2395.9	2430.8	2408.0	2338.9	2218.9
77.5°	1347.6	1364.3	1364.3	1410.6	1447.9	1501.0	1512.4	1427.4	1328.6	1201.0	1097.7
80°	1130.3	1188.8	1229.8	1264.0	1267.8	1257.2	1229.1	1181.2	1105.3	1008.0	900.2
82.5°	686.7	802.2	849.3	1025.5	1112.1	1170.6	1166.0	1102.2	1044.5	943.5	851.5
85°	173.2	186.9	202.8	263.6	295.5	360.8	401.8	420.8	427.7	392.7	355.5
87.5°	16.7	11.4	19.0	14.4	20.5	15.2	20.5	19.0	23.5	25.1	27.3
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	160.3	160.3	160.3	160.3	160.3	160.3	160.3	160.3	160.3	160.3	160.3
2.5°	177.0	176.2	175.5	174.7	174.0	173.2	171.7	171.7	170.2	169.4	168.6
5°	196.7	195.2	194.5	192.9	190.7	189.1	186.9	183.8	181.6	180.8	179.3
7.5°	221.8	218.0	216.5	214.2	211.2	206.6	203.6	201.3	197.5	195.2	190.7
10°	249.9	246.1	241.6	237.0	232.4	227.1	223.3	220.3	214.2	211.2	205.9
12.5°	285.6	278.8	273.5	267.4	261.3	255.2	250.7	241.6	236.2	229.4	224.9
15°	322.1	316.0	309.9	302.3	293.2	283.3	278.8	270.4	263.6	253.0	246.9
17.5°	366.1	354.7	345.6	336.5	328.2	319.0	309.9	297.0	287.1	278.0	265.9
20°	409.4	395.8	385.9	373.7	361.6	347.2	336.5	327.4	313.7	301.6	288.7
22.5°	455.8	442.1	426.2	414.0	397.3	385.9	371.5	356.3	342.6	326.6	310.7
25°	512.0	497.6	479.3	463.4	444.4	428.4	411.0	393.5	376.8	358.5	338.0
27.5°	581.1	565.9	546.2	527.2	502.1	482.4	465.7	442.1	420.8	398.0	374.5
30°	668.5	651.8	627.5	600.1	575.0	553.0	529.5	498.3	474.8	447.4	417.0
32.5°	782.4	762.7	730.0	704.2	673.0	644.2	611.5	580.4	546.9	511.2	476.3
35°	926.0	907.8	869.8	831.8	797.6	763.4	722.4	686.7	639.6	596.3	551.5
37.5°	1074.9	1042.2	1007.3	966.3	923.7	882.7	832.6	783.2	729.2	682.2	625.9
40°	1245.0	1205.5	1176.7	1132.6	1072.6	1014.1	967.8	906.2	838.6	775.6	709.5
42.5°	1478.2	1434.2	1382.5	1315.7	1272.4	1204.0	1144.0	1071.1	982.2	911.6	831.8
45°	1747.9	1687.9	1637.8	1573.2	1520.8	1435.7	1365.8	1268.6	1179.7	1087.0	989.8
47.5°	2055.6	1981.1	1908.2	1844.4	1760.8	1677.3	1588.4	1485.1	1371.1	1269.3	1153.9
50°	2408.8	2303.2	2202.2	2120.1	2005.4	1909.0	1812.5	1696.3	1570.2	1453.2	1321.8
52.5°	2801.5	2679.2	2545.5	2419.4	2286.5	2162.7	2046.5	1912.8	1772.2	1629.4	1482.8
55°	3275.5	3183.6	3026.4	2866.1	2688.3	2522.7	2373.1	2207.5	2036.6	1848.9	1694.7
57.5°	4017.7	3972.9	3841.5	3681.2	3449.5	3248.2	2994.5	2791.7	2544.0	2285.7	2086.7
60°	5023.5	4968.0	4894.3	4764.4	4580.6	4307.1	4027.6	3712.3	3335.5	2977.8	2638.2
62.5°	5559.8	5540.0	5480.0	5390.4	5218.7	5002.9	4721.1	4374.7	3949.3	3514.8	3081.8
63°	5575.7	5550.6	5499.0	5407.8	5256.7	5047.8	4771.3	4434.7	4018.5	3575.6	3133.5
65°	5360.0	5350.1	5297.7	5198.2	5094.9	4935.3	4721.1	4431.7	4082.3	3663.7	3223.9
67.5°	4753.8	4724.2	4643.6	4613.3	4541.1	4430.2	4266.9	4067.8	3817.9	3489.0	3109.2
70°	4020.7	3976.7	3875.6	3821.7	3733.6	3663.7	3564.2	3422.1	3267.9	3038.5	2755.2
72.5°	3243.6	3152.5	3059.8	2919.3	2796.2	2671.6	2561.5	2461.2	2291.8	2199.1	1984.2
75°	2106.5	1940.9	1782.1	1569.4	1378.0	1208.6	1043.7	960.2	786.2	715.6	614.5
77.5°	999.7	907.0	782.4	685.9	562.9	459.6	375.3	281.8	221.1	173.2	132.2
80°	806.7	728.5	653.3	565.9	473.3	377.5	289.4	216.5	153.4	106.3	75.2
82.5°	719.4	634.3	541.6	481.6	418.6	342.6	281.1	229.4	169.4	123.8	84.3
85°	279.5	235.5	181.6	148.1	115.5	95.0	85.8	59.3	46.3	36.5	28.1
87.5°	24.3	19.8	16.0	10.6	11.4	6.1	6.8	4.6	3.8	3.8	3.0
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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CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	160.3	160.3	160.3	160.3	160.3	160.3	160.3	160.3	160.3	160.3	160.3
2.5°	167.9	167.1	166.4	164.8	164.8	163.3	162.6	161.8	158.0	149.6	142.8
5°	176.2	174.7	173.2	170.9	169.4	167.1	165.6	163.3	155.0	139.0	125.3
7.5°	188.4	185.4	183.1	178.5	176.2	173.2	170.9	167.1	153.4	129.1	110.1
10°	202.8	197.5	193.7	188.4	183.8	180.0	176.2	170.9	151.9	118.5	96.5
12.5°	220.3	214.2	206.6	200.5	194.5	189.1	183.8	177.0	149.6	109.4	85.8
15°	237.8	228.6	223.3	215.0	206.6	199.0	191.4	185.4	150.4	99.5	76.7
17.5°	257.5	248.4	237.0	227.9	218.8	208.9	199.8	187.6	146.6	91.9	69.9
20°	276.5	263.6	253.0	241.6	228.6	216.5	205.1	194.5	143.6	84.3	63.8
22.5°	297.0	281.8	268.2	253.7	237.8	224.1	210.4	196.7	138.3	77.5	58.5
25°	322.1	304.6	284.9	267.4	250.7	234.0	216.5	199.8	132.9	71.4	54.7
27.5°	352.5	329.7	309.9	287.9	264.4	243.1	224.1	205.9	127.6	66.8	50.9
30°	391.2	364.6	336.5	308.4	283.3	259.0	232.4	209.7	122.3	62.3	47.1
32.5°	442.9	409.4	375.3	342.6	309.2	278.0	249.9	220.3	119.3	58.5	43.3
35°	511.2	467.9	426.2	385.1	344.9	306.9	270.4	237.0	119.3	53.9	38.7
37.5°	575.8	525.7	472.5	421.6	373.7	329.7	286.4	246.1	113.2	50.1	34.9
40°	645.7	585.7	523.4	463.4	405.6	351.0	301.6	255.2	107.9	45.6	31.1
42.5°	752.8	676.8	595.6	525.7	456.5	388.9	327.4	272.7	101.0	41.0	27.3
45°	893.3	796.9	701.1	616.1	527.9	445.1	372.2	304.6	99.5	37.2	23.5
47.5°	1043.7	929.8	817.4	708.7	605.4	509.0	421.6	340.3	99.5	33.4	20.5
50°	1193.4	1050.6	930.6	804.5	688.2	574.3	470.2	377.5	100.3	30.4	16.7
52.5°	1328.6	1175.9	1041.5	895.6	767.2	635.1	521.9	414.0	98.8	26.6	13.7
55°	1516.2	1337.0	1181.2	1020.2	869.8	720.9	592.5	468.7	99.5	23.5	11.4
57.5°	1861.9	1651.4	1463.8	1252.6	1079.4	887.3	731.5	581.1	108.6	19.8	8.4
60°	2357.9	2084.4	1820.8	1563.3	1343.0	1114.4	912.3	735.3	127.6	16.0	6.1
62.5°	2691.4	2333.6	2019.1	1735.0	1479.0	1239.7	1019.4	818.1	140.5	12.9	3.8
63°	2725.6	2355.6	2039.6	1746.4	1485.1	1245.8	1024.0	824.2	141.3	12.2	3.8
65°	2790.1	2393.6	2051.0	1748.7	1479.0	1237.4	1020.9	823.4	142.8	9.9	3.0
67.5°	2716.4	2335.1	1984.9	1683.3	1425.8	1188.1	983.0	793.1	142.1	6.8	2.3
70°	2429.3	2113.3	1805.6	1524.6	1290.6	1075.6	894.8	723.2	130.7	4.6	1.5
72.5°	1783.6	1568.6	1330.1	1127.3	972.3	807.5	689.0	543.1	101.0	3.0	0.8
75°	528.7	481.6	404.9	357.0	315.2	260.6	231.7	180.8	51.7	1.5	0.0
77.5°	105.6	95.7	85.8	78.2	73.7	63.0	60.0	49.4	21.3	0.8	0.0
80°	55.5	45.6	38.7	34.2	29.6	24.3	20.5	16.7	3.8	0.0	0.0
82.5°	53.2	35.7	25.8	21.3	18.2	14.4	11.4	8.4	2.3	0.0	0.0
85°	19.8	15.2	11.4	9.1	7.6	6.8	5.3	4.6	0.0	0.0	0.0
87.5°	3.0	2.3	2.3	1.5	1.5	0.8	0.8	0.8	0.0	0.0	0.0
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-E03-LED-E1-SL2-HSS-8030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	160.3	160.3	160.3	160.3	160.3	160.3	160.3
2.5°	136.0	129.9	126.9	123.1	123.1	122.3	123.8
5°	113.2	104.8	98.8	94.2	95.0	92.7	93.4
7.5°	95.7	87.4	82.0	79.0	78.2	77.5	77.5
10°	82.8	75.2	70.6	68.4	67.6	67.6	67.6
12.5°	73.7	66.1	62.3	60.8	60.8	60.0	60.0
15°	66.1	60.0	56.2	54.7	54.7	53.9	54.7
17.5°	60.0	53.9	50.9	49.4	49.4	48.6	48.6
20°	54.7	49.4	46.3	44.1	44.1	43.3	44.1
22.5°	50.1	44.8	41.0	39.5	38.7	38.0	38.7
25°	45.6	40.3	36.5	34.2	33.4	33.4	32.7
27.5°	41.8	36.5	31.9	29.6	28.9	28.9	28.1
30°	38.0	31.9	27.3	25.1	24.3	24.3	24.3
32.5°	34.2	27.3	23.5	21.3	20.5	20.5	20.5
35°	30.4	23.5	19.8	17.5	16.7	16.7	16.7
37.5°	25.8	19.8	15.2	13.7	12.9	12.2	12.2
40°	22.0	15.2	11.4	9.9	8.4	8.4	8.4
42.5°	18.2	12.2	8.4	6.1	5.3	4.6	5.3
45°	15.2	9.1	5.3	3.0	2.3	2.3	2.3
47.5°	12.2	6.1	2.3	0.8	0.8	0.8	0.8
50°	9.1	3.8	0.8	0.0	0.0	0.8	0.8
52.5°	6.8	2.3	0.0	0.0	0.0	0.0	0.0
55°	3.8	0.8	0.0	0.0	0.0	0.0	0.0
57.5°	2.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.5	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)