

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: P180447

Luminaire Tested: **ICS-E04-LED-E1-SL2-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180447
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-E04-LED-E1-SL2-HSS-7030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6029.2 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 97.2
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



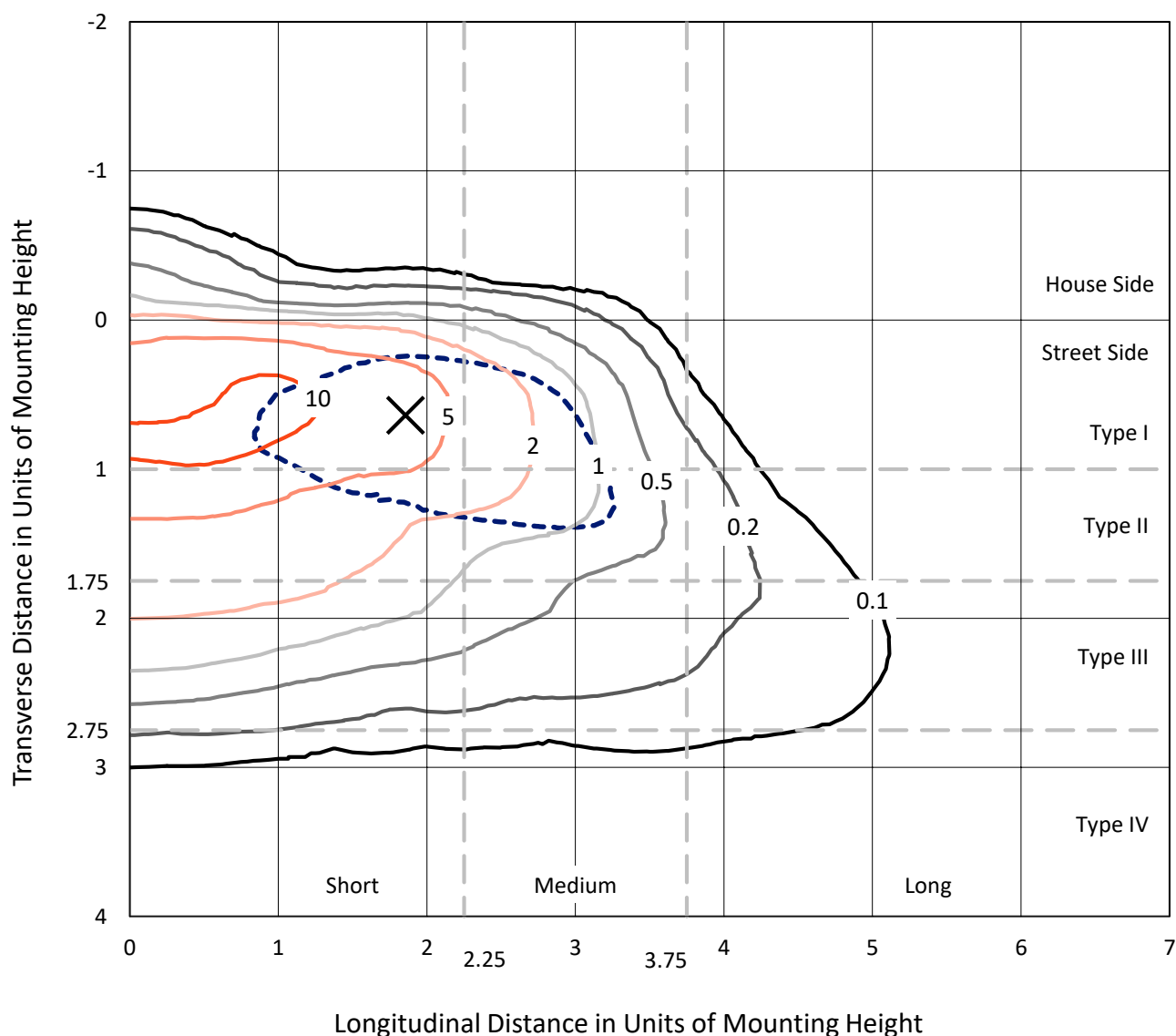
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

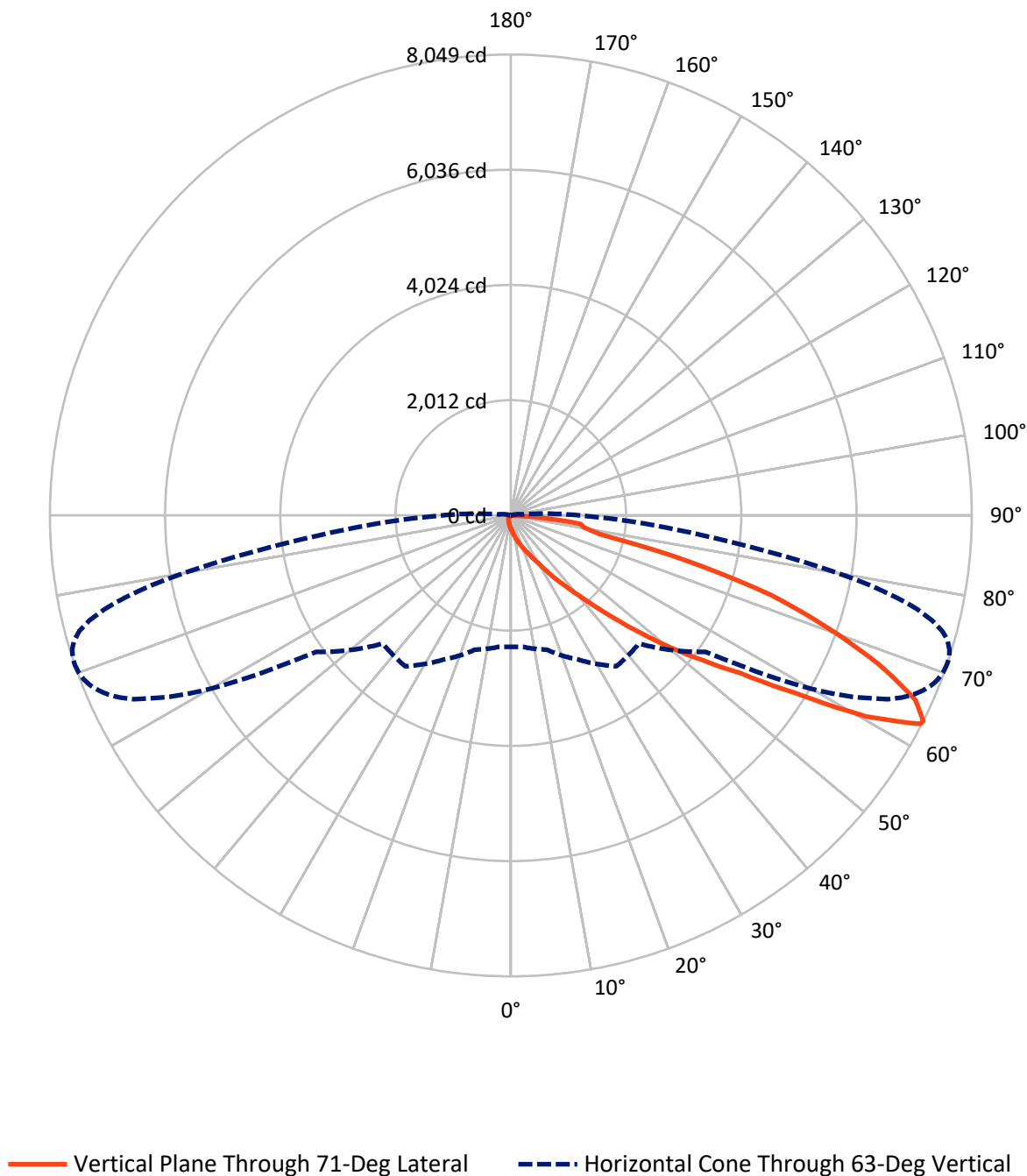


Based on 10 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	128.0	0.0	128.0
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	5901.2	0.0	5901.2
	% Fixture	97.9	0.0	97.9
Total	Lumens	6029.2	0.0	6029.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.6	0.4
10°-20°	99.1	1.6
20°-30°	201.4	3.3
30°-40°	492.0	8.2
40°-50°	1100.2	18.2
50°-60°	1547.0	25.7
60°-70°	1819.2	30.2
70°-80°	656.9	10.9
80°-90°	87.8	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°	6029.2	100.0
0°-180°	6029.2	100.0

Coefficient of Utilization



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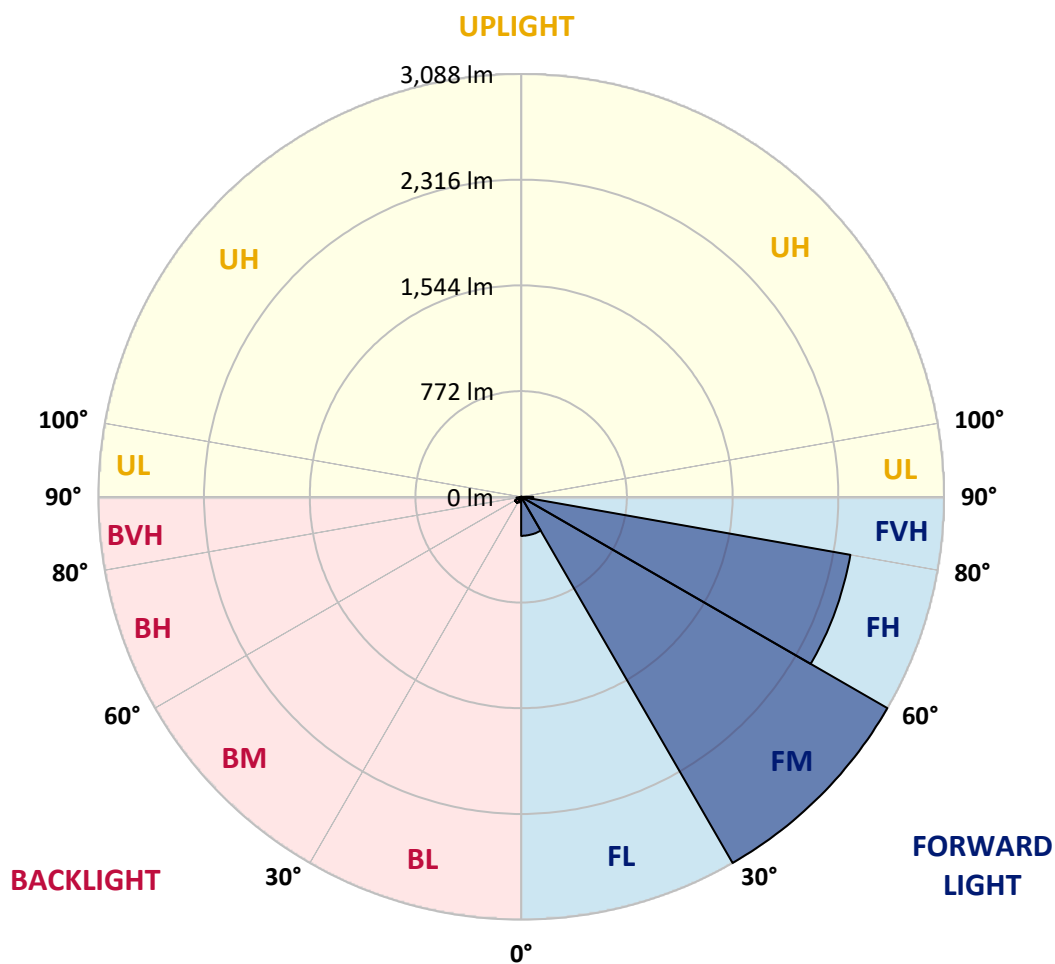
CATALOG NUMBER: ICS-E04-LED-E1-SL2-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	284.9	4.7			
FM	(30°-60°)	3087.7	51.2			
FH	(60°-80°)	2441.0	40.5			G2/5000
FVH	(80°-90°)	87.7	1.5			G1/100
BL	(0°-30°)	41.2	0.7	B0/110		
BM	(30°-60°)	51.6	0.9	B0/220		
BH	(60°-80°)	35.1	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	231.3	231.3	231.3	231.3	231.3	231.3	231.3	231.3	231.3	231.3	231.3
2.5°	302.5	305.8	303.6	298.1	291.6	282.8	275.1	275.1	274.0	270.7	271.8
5°	396.8	397.9	393.5	380.3	368.3	349.6	328.8	326.6	324.4	321.2	320.1
7.5°	488.9	493.2	488.9	474.6	450.5	422.0	389.1	385.8	379.2	379.2	374.9
10°	583.1	583.1	578.7	562.3	540.4	499.8	458.2	452.7	445.0	442.8	436.2
12.5°	650.0	650.0	647.8	639.0	621.5	585.3	534.9	529.4	519.5	516.3	508.6
15°	676.3	676.3	677.4	685.1	686.1	669.7	617.1	612.7	602.8	594.1	590.8
17.5°	692.7	691.6	691.6	702.6	722.3	733.3	699.3	694.9	684.0	679.6	668.6
20°	728.9	726.7	720.1	720.1	738.8	777.1	777.1	776.0	764.0	760.7	755.2
22.5°	782.6	780.4	760.7	744.2	753.0	801.2	846.2	844.0	839.6	835.2	831.9
25°	870.3	862.6	828.6	780.4	772.7	824.3	898.8	904.3	907.6	907.6	909.7
27.5°	1002.9	993.0	932.8	842.9	808.9	861.5	956.9	967.8	977.7	979.9	989.8
30°	1187.1	1169.5	1082.9	951.4	873.6	916.3	1042.4	1054.4	1068.7	1073.1	1088.4
32.5°	1489.6	1479.7	1396.4	1199.1	1032.5	1023.7	1161.8	1177.2	1195.8	1203.5	1222.1
35°	1949.9	1952.1	1884.2	1706.6	1476.4	1355.9	1375.6	1388.7	1395.3	1418.3	1428.2
37.5°	2262.3	2267.8	2283.1	2213.0	2048.6	1925.8	1771.3	1785.5	1751.5	1754.8	1755.9
40°	2433.3	2450.8	2540.7	2608.7	2595.5	2524.3	2400.4	2408.1	2344.5	2330.3	2261.2
42.5°	2547.3	2570.3	2713.9	2924.3	3031.8	3096.4	3067.9	3064.6	3015.3	2996.7	2938.6
45°	2618.5	2639.4	2820.2	3130.4	3378.1	3566.6	3644.5	3653.2	3611.6	3593.0	3544.7
47.5°	2615.2	2639.4	2833.4	3207.1	3572.1	3873.5	4092.8	4103.7	4128.9	4112.5	4115.8
50°	2470.6	2493.6	2688.7	3076.7	3515.1	4013.8	4415.0	4450.1	4490.6	4518.0	4531.2
52.5°	2295.2	2311.6	2484.8	2853.1	3271.8	3955.8	4605.7	4666.0	4726.3	4777.8	4814.0
55°	2230.5	2249.2	2385.1	2690.9	3076.7	3712.4	4694.5	4783.3	4868.8	4953.2	5022.2
57.5°	2264.5	2282.0	2379.6	2614.2	2960.5	3455.9	4719.7	4857.8	4998.1	5135.1	5271.0
60°	2389.5	2408.1	2491.4	2685.4	2929.8	3308.0	4621.1	4850.2	5083.6	5322.6	5547.3
62.5°	2340.1	2347.8	2470.6	2810.3	3149.0	3181.9	4262.7	4582.7	4938.9	5307.2	5670.0
63°	2293.0	2301.8	2426.7	2776.4	3215.9	3163.3	4152.0	4489.5	4865.5	5262.3	5656.9
65°	2079.3	2080.4	2175.7	2451.9	3141.4	3196.2	3658.7	3981.0	4412.8	4888.5	5387.2
67.5°	1552.0	1544.4	1636.4	1846.9	2466.2	3197.3	3140.3	3321.1	3621.4	4043.4	4490.6
70°	550.2	538.2	687.2	978.8	1536.7	2615.2	2698.5	2710.6	2793.9	3021.9	3302.5
72.5°	178.7	181.9	219.2	358.4	708.1	1760.3	2443.2	2405.9	2384.0	2382.9	2420.1
75°	71.2	72.3	87.7	158.9	317.9	848.4	2139.5	2160.4	2168.0	2179.0	2191.1
77.5°	34.0	37.3	49.3	88.8	157.8	419.8	1531.2	1707.7	1808.5	1886.4	1933.5
80°	12.1	14.2	27.4	54.8	73.4	192.9	806.7	973.3	1121.3	1312.0	1476.4
82.5°	0.0	0.0	5.5	38.4	40.6	77.8	331.0	388.0	443.9	575.4	738.8
85°	0.0	0.0	0.0	11.0	12.1	13.2	111.8	134.8	151.3	176.5	203.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.3	6.6	16.4	25.2
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°	231.3	231.3	231.3	231.3	231.3	231.3	231.3	231.3	231.3	231.3	231.3
2.5°	269.6	268.5	268.5	266.3	265.3	263.1	262.0	258.7	257.6	257.6	257.6
5°	319.0	314.6	312.4	306.9	303.6	302.5	297.0	294.8	291.6	292.7	287.2
7.5°	373.8	366.1	362.8	355.1	352.9	345.3	343.1	337.6	334.3	327.7	325.5
10°	434.0	424.2	418.7	406.6	403.4	397.9	391.3	384.7	379.2	372.7	369.4
12.5°	503.1	494.3	489.9	473.5	465.8	458.2	449.4	440.6	431.9	426.4	418.7
15°	584.2	570.0	565.6	550.2	537.1	527.2	515.2	504.2	497.6	486.7	479.0
17.5°	664.2	650.0	646.7	623.7	609.4	602.8	589.7	575.4	563.4	552.4	540.4
20°	744.2	734.4	725.6	703.7	688.3	677.4	659.8	645.6	635.7	620.4	605.0
22.5°	824.3	814.4	807.8	784.8	770.5	755.2	739.9	724.5	710.3	691.6	674.1
25°	906.5	899.9	896.6	875.8	862.6	848.4	833.0	815.5	797.9	777.1	758.5
27.5°	992.0	994.1	987.6	983.2	968.9	959.1	935.0	922.9	909.7	884.5	861.5
30°	1100.5	1107.0	1104.8	1108.1	1099.4	1092.8	1074.2	1058.8	1043.5	1019.4	993.0
32.5°	1237.5	1246.2	1250.6	1262.7	1258.3	1256.1	1250.6	1228.7	1217.7	1176.1	1165.1
35°	1449.0	1444.6	1463.3	1473.1	1468.7	1466.6	1460.0	1447.9	1434.8	1405.2	1377.8
37.5°	1724.1	1728.5	1735.1	1715.4	1702.2	1701.1	1681.4	1669.3	1650.7	1617.8	1584.9
40°	2228.3	2200.9	2170.2	2086.9	2050.8	2029.9	1971.8	1955.4	1923.6	1878.7	1844.7
42.5°	2883.8	2856.4	2764.3	2625.1	2550.6	2447.5	2400.4	2342.3	2297.4	2223.9	2184.5
45°	3534.9	3455.9	3445.0	3282.8	3190.7	3054.8	2970.4	2872.8	2770.9	2674.4	2604.3
47.5°	4084.0	4066.5	4012.7	3914.1	3828.6	3714.6	3606.1	3455.9	3350.7	3213.7	3087.7
50°	4523.5	4522.4	4502.7	4445.7	4374.5	4282.4	4187.0	4059.9	3940.4	3772.7	3637.9
52.5°	4852.3	4869.9	4876.5	4858.9	4831.5	4750.4	4702.2	4595.9	4495.0	4352.5	4206.8
55°	5093.5	5158.2	5191.0	5228.3	5220.6	5192.1	5189.9	5120.9	5074.9	4962.0	4858.9
57.5°	5391.6	5497.9	5599.9	5780.7	5787.3	5850.9	5883.8	5916.6	5925.4	5880.5	5846.5
60°	5770.9	5987.9	6180.8	6558.9	6657.6	6813.2	6914.1	7023.7	7116.8	7124.5	7122.3
62.5°	6038.3	6372.6	6683.9	7245.1	7436.9	7616.7	7751.5	7857.8	7922.5	7988.2	8018.9
63°	6046.0	6412.1	6743.1	7321.8	7523.5	7694.5	7822.7	7921.4	7989.3	8028.8	8048.5
65°	5860.7	6304.7	6699.2	7275.8	7465.4	7637.5	7704.3	7769.0	7801.9	7817.2	7759.2
67.5°	4967.4	5401.5	5861.8	6506.3	6668.6	6874.6	6929.4	6962.3	6977.6	6974.4	6925.0
70°	3714.6	4078.5	4590.4	5326.9	5541.8	5743.5	5868.4	5922.1	5939.7	5934.2	5860.7
72.5°	2593.3	2807.1	3229.1	4048.9	4341.6	4600.2	4754.8	4834.8	4851.3	4818.4	4750.4
75°	2177.9	2188.9	2284.2	2732.5	3006.5	3282.8	3457.0	3507.5	3474.6	3374.8	3201.6
77.5°	1944.4	1968.6	1968.6	2035.4	2089.1	2165.9	2182.3	2059.5	1917.0	1732.9	1583.8
80°	1631.0	1715.4	1774.6	1823.9	1829.4	1814.0	1773.5	1704.4	1594.8	1454.5	1298.9
82.5°	990.9	1157.5	1225.4	1479.7	1604.7	1689.1	1682.5	1590.4	1507.1	1361.3	1228.7
85°	249.9	269.6	292.7	380.3	426.4	520.6	579.8	607.2	617.1	566.7	513.0
87.5°	24.1	16.4	27.4	20.8	29.6	21.9	29.6	27.4	34.0	36.2	39.5
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	231.3	231.3	231.3	231.3	231.3	231.3	231.3	231.3	231.3	231.3	231.3
2.5°	255.4	254.3	253.2	252.1	251.0	249.9	247.7	247.7	245.5	244.4	243.3
5°	283.9	281.7	280.6	278.4	275.1	272.9	269.6	265.3	262.0	260.9	258.7
7.5°	320.1	314.6	312.4	309.1	304.7	298.1	293.7	290.5	285.0	281.7	275.1
10°	360.6	355.1	348.6	342.0	335.4	327.7	322.2	317.9	309.1	304.7	297.0
12.5°	412.1	402.3	394.6	385.8	377.1	368.3	361.7	348.6	340.9	331.0	324.4
15°	464.7	456.0	447.2	436.2	423.1	408.8	402.3	390.2	380.3	365.0	356.2
17.5°	528.3	511.9	498.7	485.6	473.5	460.4	447.2	428.6	414.3	401.2	383.6
20°	590.8	571.1	556.8	539.3	521.7	500.9	485.6	472.4	452.7	435.1	416.5
22.5°	657.6	637.9	614.9	597.4	573.2	556.8	536.0	514.1	494.3	471.3	448.3
25°	738.8	717.9	691.6	668.6	641.2	618.2	593.0	567.8	543.7	517.3	487.8
27.5°	838.5	816.6	788.1	760.7	724.5	696.0	671.9	637.9	607.2	574.3	540.4
30°	964.6	940.4	905.4	865.9	829.7	797.9	764.0	719.0	685.1	645.6	601.7
32.5°	1129.0	1100.5	1053.3	1016.1	971.1	929.5	882.3	837.4	789.2	737.7	687.2
35°	1336.1	1309.8	1255.0	1200.2	1150.9	1101.6	1042.4	990.9	922.9	860.4	795.8
37.5°	1551.0	1503.8	1453.4	1394.2	1332.8	1273.6	1201.3	1130.1	1052.2	984.3	903.2
40°	1796.5	1739.5	1697.8	1634.3	1547.7	1463.3	1396.4	1307.6	1210.1	1119.1	1023.7
42.5°	2133.0	2069.4	1994.9	1898.4	1835.9	1737.3	1650.7	1545.5	1417.2	1315.3	1200.2
45°	2522.1	2435.5	2363.1	2270.0	2194.4	2071.6	1970.8	1830.5	1702.2	1568.5	1428.2
47.5°	2966.0	2858.6	2753.4	2661.3	2540.7	2420.1	2291.9	2142.8	1978.4	1831.5	1664.9
50°	3475.7	3323.3	3177.5	3059.2	2893.7	2754.4	2615.2	2447.5	2265.6	2096.8	1907.2
52.5°	4042.3	3865.9	3673.0	3491.0	3299.2	3120.5	2952.8	2759.9	2557.2	2351.1	2139.5
55°	4726.3	4593.7	4366.8	4135.5	3879.0	3640.1	3424.2	3185.2	2938.6	2667.9	2445.4
57.5°	5797.2	5732.5	5542.9	5311.6	4977.3	4686.8	4320.7	4028.1	3670.8	3298.1	3010.9
60°	7248.4	7168.4	7062.0	6874.6	6609.4	6214.8	5811.4	5356.5	4812.9	4296.6	3806.7
62.5°	8022.2	7993.7	7907.1	7777.8	7530.1	7218.8	6812.1	6312.3	5698.5	5071.6	4446.8
63°	8045.2	8009.1	7934.5	7803.0	7584.9	7283.5	6884.5	6398.9	5798.3	5159.2	4521.3
65°	7733.9	7719.7	7644.1	7500.5	7351.4	7121.2	6812.1	6394.5	5890.3	5286.4	4651.8
67.5°	6859.3	6816.5	6700.3	6656.5	6552.4	6392.3	6156.7	5869.5	5508.9	5034.3	4486.3
70°	5801.6	5738.0	5592.2	5514.4	5387.2	5286.4	5142.8	4937.8	4715.3	4384.3	3975.5
72.5°	4680.3	4548.7	4415.0	4212.2	4034.7	3854.9	3696.0	3551.3	3306.9	3173.2	2863.0
75°	3039.4	2800.5	2571.4	2264.5	1988.3	1743.9	1506.0	1385.4	1134.4	1032.5	886.7
77.5°	1442.4	1308.7	1129.0	989.8	812.2	663.1	541.5	406.6	319.0	249.9	190.7
80°	1164.0	1051.1	942.6	816.6	682.9	544.8	417.6	312.4	221.4	153.5	108.5
82.5°	1038.0	915.2	781.5	694.9	603.9	494.3	405.5	331.0	244.4	178.7	121.7
85°	403.4	339.8	262.0	213.7	166.6	137.0	123.9	85.5	66.9	52.6	40.6
87.5°	35.1	28.5	23.0	15.3	16.4	8.8	9.9	6.6	5.5	5.5	4.4
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	231.3	231.3	231.3	231.3	231.3	231.3	231.3	231.3	231.3	231.3	231.3
2.5°	242.2	241.1	240.0	237.8	237.8	235.7	234.6	233.5	228.0	215.9	206.1
5°	254.3	252.1	249.9	246.6	244.4	241.1	238.9	235.7	223.6	200.6	180.9
7.5°	271.8	267.4	264.2	257.6	254.3	249.9	246.6	241.1	221.4	186.3	158.9
10°	292.7	285.0	279.5	271.8	265.3	259.8	254.3	246.6	219.2	171.0	139.2
12.5°	317.9	309.1	298.1	289.4	280.6	272.9	265.3	255.4	215.9	157.8	123.9
15°	343.1	329.9	322.2	310.2	298.1	287.2	276.2	267.4	217.0	143.6	110.7
17.5°	371.6	358.4	342.0	328.8	315.7	301.4	288.3	270.7	211.5	132.6	100.8
20°	399.0	380.3	365.0	348.6	329.9	312.4	295.9	280.6	207.2	121.7	92.1
22.5°	428.6	406.6	386.9	366.1	343.1	323.3	303.6	283.9	199.5	111.8	84.4
25°	464.7	439.5	411.0	385.8	361.7	337.6	312.4	288.3	191.8	103.0	78.9
27.5°	508.6	475.7	447.2	415.4	381.4	350.7	323.3	297.0	184.1	96.5	73.4
30°	564.5	526.1	485.6	445.0	408.8	373.8	335.4	302.5	176.5	89.9	68.0
32.5°	639.0	590.8	541.5	494.3	446.1	401.2	360.6	317.9	172.1	84.4	62.5
35°	737.7	675.2	614.9	555.7	497.6	442.8	390.2	342.0	172.1	77.8	55.9
37.5°	830.8	758.5	681.8	608.3	539.3	475.7	413.2	355.1	163.3	72.3	50.4
40°	931.7	845.1	755.2	668.6	585.3	506.4	435.1	368.3	155.6	65.8	44.9
42.5°	1086.2	976.6	859.3	758.5	658.7	561.2	472.4	393.5	145.8	59.2	39.5
45°	1289.0	1149.8	1011.7	888.9	761.8	642.3	537.1	439.5	143.6	53.7	34.0
47.5°	1506.0	1341.6	1179.4	1022.6	873.6	734.4	608.3	491.0	143.6	48.2	29.6
50°	1721.9	1515.9	1342.7	1160.7	993.0	828.6	678.5	544.8	144.7	43.8	24.1
52.5°	1917.0	1696.7	1502.7	1292.3	1107.0	916.3	753.0	597.4	142.5	38.4	19.7
55°	2187.8	1929.1	1704.4	1472.0	1255.0	1040.2	854.9	676.3	143.6	34.0	16.4
57.5°	2686.5	2382.9	2112.1	1807.4	1557.5	1280.2	1055.5	838.5	156.7	28.5	12.1
60°	3402.2	3007.6	2627.3	2255.7	1937.9	1607.9	1316.4	1061.0	184.1	23.0	8.8
62.5°	3883.4	3367.2	2913.4	2503.4	2134.1	1788.8	1470.9	1180.5	202.8	18.6	5.5
63°	3932.7	3398.9	2943.0	2519.9	2142.8	1797.6	1477.5	1189.2	203.9	17.5	5.5
65°	4025.9	3453.7	2959.4	2523.2	2134.1	1785.5	1473.1	1188.2	206.1	14.2	4.4
67.5°	3919.6	3369.4	2864.1	2428.9	2057.3	1714.3	1418.3	1144.3	205.0	9.9	3.3
70°	3505.3	3049.3	2605.4	2199.8	1862.2	1552.0	1291.2	1043.5	188.5	6.6	2.2
72.5°	2573.6	2263.4	1919.2	1626.6	1403.0	1165.1	994.1	783.7	145.8	4.4	1.1
75°	762.9	694.9	584.2	515.2	454.9	376.0	334.3	260.9	74.5	2.2	0.0
77.5°	152.4	138.1	123.9	112.9	106.3	91.0	86.6	71.2	30.7	1.1	0.0
80°	80.0	65.8	55.9	49.3	42.7	35.1	29.6	24.1	5.5	0.0	0.0
82.5°	76.7	51.5	37.3	30.7	26.3	20.8	16.4	12.1	3.3	0.0	0.0
85°	28.5	21.9	16.4	13.2	11.0	9.9	7.7	6.6	0.0	0.0	0.0
87.5°	4.4	3.3	3.3	2.2	2.2	1.1	1.1	1.1	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-E04-LED-E1-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	231.3	231.3	231.3	231.3	231.3	231.3	231.3
2.5°	196.2	187.4	183.0	177.6	177.6	176.5	178.7
5°	163.3	151.3	142.5	135.9	137.0	133.7	134.8
7.5°	138.1	126.0	118.4	114.0	112.9	111.8	111.8
10°	119.5	108.5	101.9	98.6	97.6	97.6	97.6
12.5°	106.3	95.4	89.9	87.7	87.7	86.6	86.6
15°	95.4	86.6	81.1	78.9	78.9	77.8	78.9
17.5°	86.6	77.8	73.4	71.2	71.2	70.1	70.1
20°	78.9	71.2	66.9	63.6	63.6	62.5	63.6
22.5°	72.3	64.7	59.2	57.0	55.9	54.8	55.9
25°	65.8	58.1	52.6	49.3	48.2	48.2	47.1
27.5°	60.3	52.6	46.0	42.7	41.7	41.7	40.6
30°	54.8	46.0	39.5	36.2	35.1	35.1	35.1
32.5°	49.3	39.5	34.0	30.7	29.6	29.6	29.6
35°	43.8	34.0	28.5	25.2	24.1	24.1	24.1
37.5°	37.3	28.5	21.9	19.7	18.6	17.5	17.5
40°	31.8	21.9	16.4	14.2	12.1	12.1	12.1
42.5°	26.3	17.5	12.1	8.8	7.7	6.6	7.7
45°	21.9	13.2	7.7	4.4	3.3	3.3	3.3
47.5°	17.5	8.8	3.3	1.1	1.1	1.1	1.1
50°	13.2	5.5	1.1	0.0	0.0	1.1	1.1
52.5°	9.9	3.3	0.0	0.0	0.0	0.0	0.0
55°	5.5	1.1	0.0	0.0	0.0	0.0	0.0
57.5°	3.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.1	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)