

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: P180818

Luminaire Tested: **ICS-E01-LED-E1-SL4-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180818
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-E01-LED-E1-SL4-HSS
Description: ICON SITE SMALL LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1831.4 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

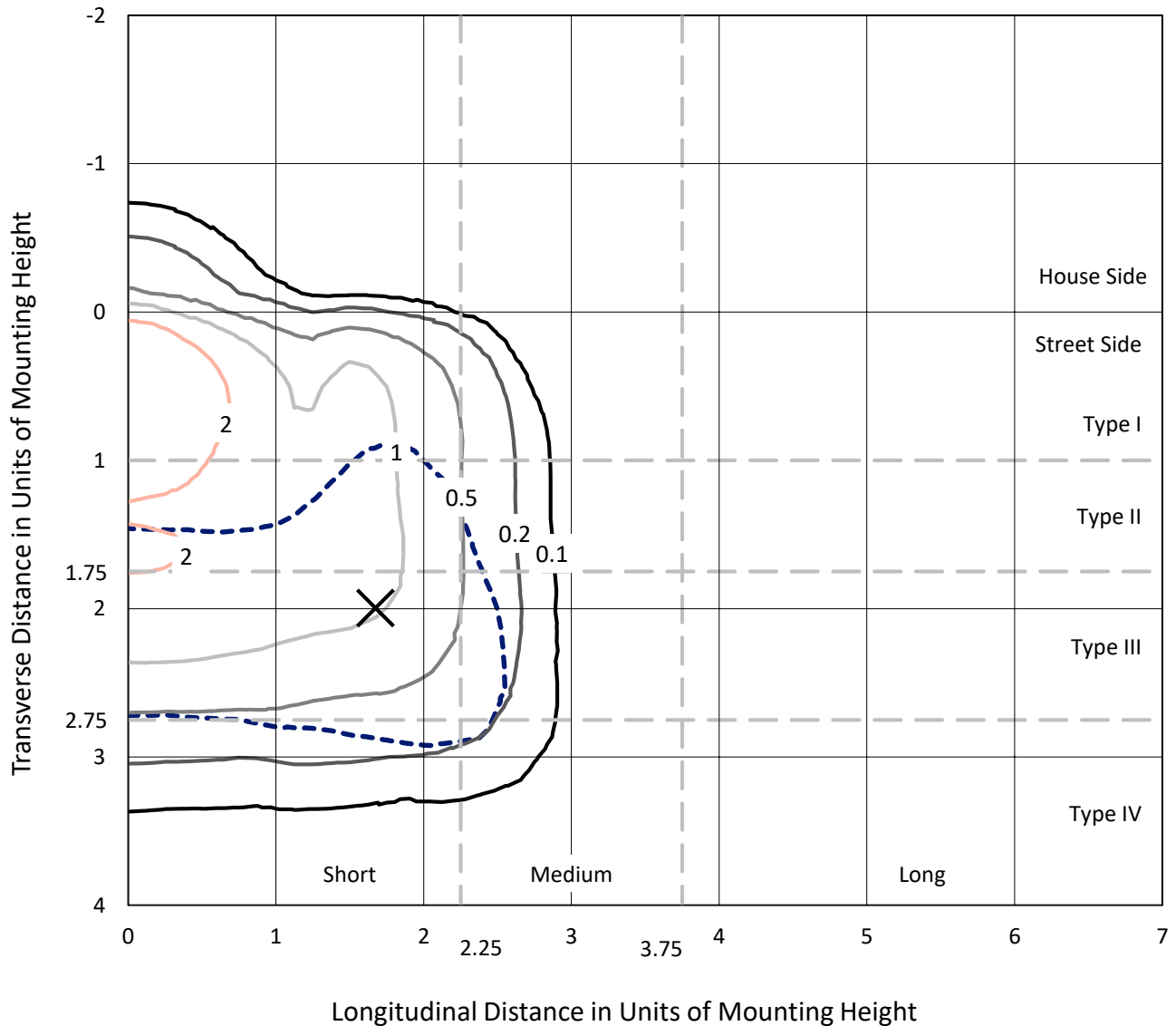
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

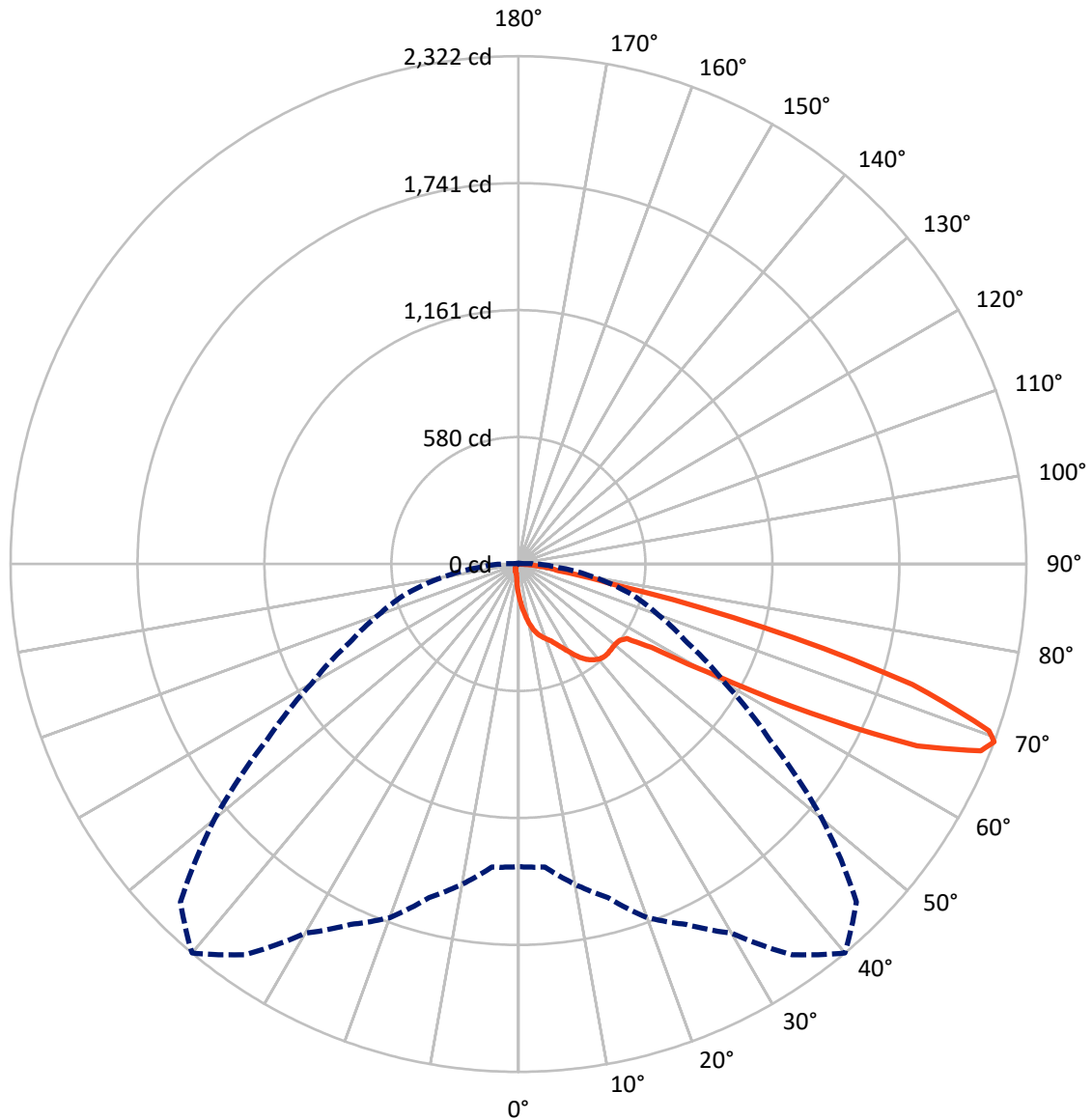
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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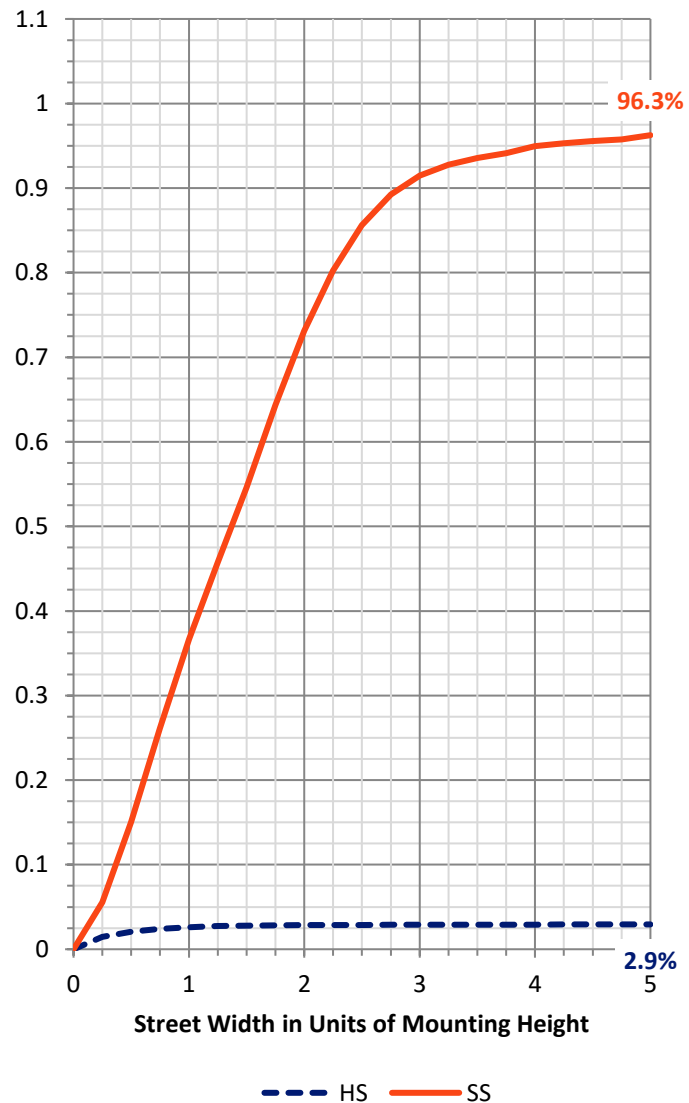
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	54.5	0.0	54.5
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	1776.9	0.0	1776.9
	% Fixture	97.0	0.0	97.0
Total	Lumens	1831.4	0.0	1831.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.2	0.8
10°-20°	49.0	2.7
20°-30°	93.8	5.1
30°-40°	156.0	8.5
40°-50°	211.1	11.5
50°-60°	330.1	18.0
60°-70°	678.8	37.1
70°-80°	273.1	14.9
80°-90°	25.3	1.4
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°	1831.4	100.0
0°-180°	1831.4	100.0



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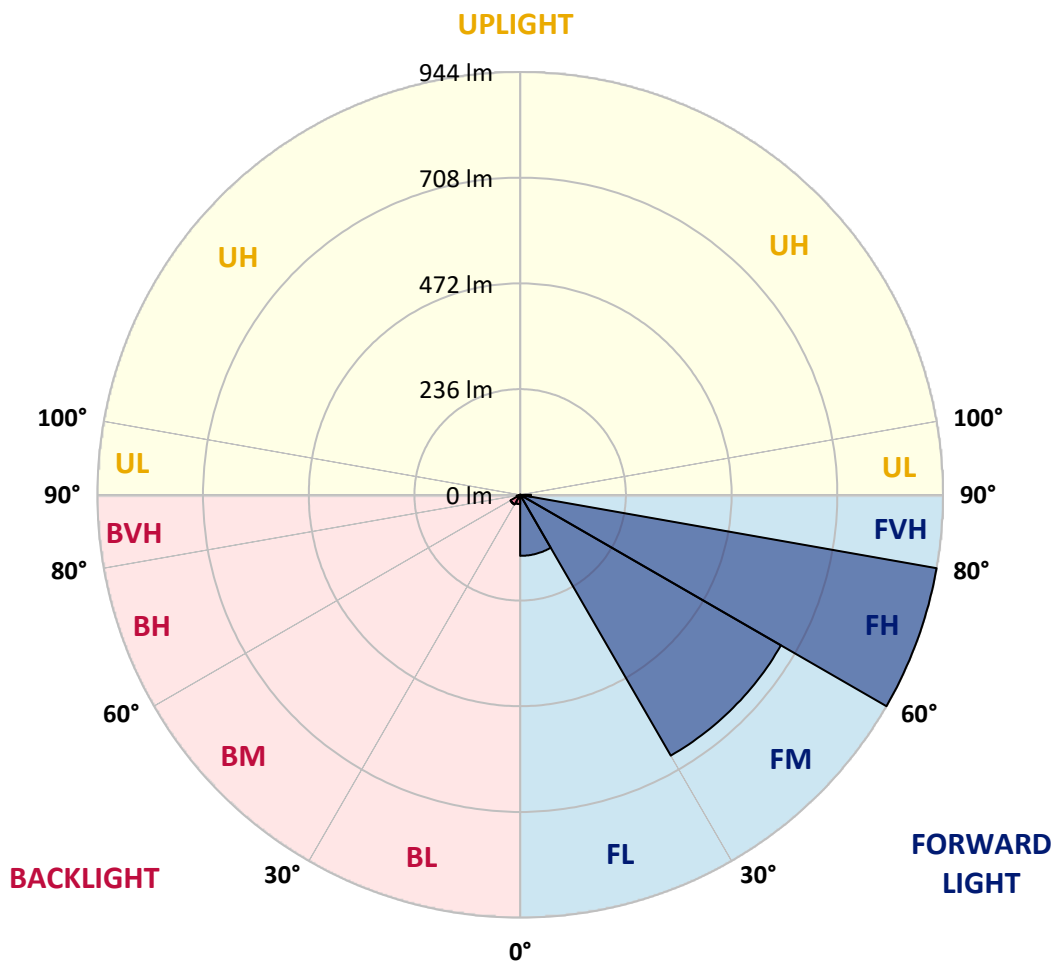
CATALOG NUMBER: ICS-E01-LED-E1-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	136.3	7.4			
FM (30°-60°)	672.3	36.7			
FH (60°-80°)	943.9	51.5			G1/1800
FVH (80°-90°)	24.3	1.3			G1/100
BL (0°-30°)	20.7	1.1	B0/110		
BM (30°-60°)	24.9	1.4	B0/220		
BH (60°-80°)	8.0	0.4	B0/110		G0/110
BVH (80°-90°)	0.9	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3
2.5°	184.5	182.4	180.0	180.0	177.0	177.0	175.2	170.4	169.8	167.1	164.4
5°	235.5	233.7	230.7	228.0	225.6	221.4	218.4	212.7	206.4	200.4	195.0
7.5°	285.3	284.4	279.0	278.1	274.2	267.3	261.3	252.9	242.1	233.7	223.8
10°	331.5	329.4	328.2	323.1	317.4	309.9	300.6	290.4	277.8	264.6	250.5
12.5°	368.1	366.9	361.5	359.4	353.4	345.9	334.2	321.0	308.4	291.3	274.8
15°	395.4	393.3	389.7	386.4	379.2	372.6	361.8	347.4	332.1	313.5	293.7
17.5°	418.2	414.3	413.4	408.3	400.8	393.0	381.0	367.8	349.8	331.2	309.6
20°	448.8	443.4	441.6	434.1	425.4	414.6	400.8	384.3	365.4	345.0	322.8
22.5°	484.8	480.9	477.0	470.4	459.3	444.0	423.9	405.9	381.9	359.4	335.4
25°	535.8	532.5	526.2	517.2	503.4	485.1	460.8	434.4	406.2	377.4	349.2
27.5°	585.3	582.3	577.8	570.9	555.3	535.2	505.2	471.6	435.9	401.1	369.9
30°	631.8	629.1	624.6	617.7	603.9	584.1	550.2	514.2	469.8	429.3	391.8
32.5°	681.9	681.0	675.9	666.0	654.0	627.3	590.4	551.7	506.7	459.9	416.1
35°	738.6	731.7	726.9	717.0	696.6	668.1	624.9	582.6	535.2	487.2	438.3
37.5°	786.6	780.0	774.0	761.4	736.5	700.2	651.3	604.8	555.9	507.0	457.2
40°	821.7	818.4	811.2	794.7	766.8	723.6	670.8	620.1	570.9	521.7	472.5
42.5°	847.8	842.7	834.6	817.5	784.5	735.3	678.6	626.4	577.8	530.7	482.4
45°	857.4	853.2	845.7	827.1	791.4	738.6	678.3	624.6	578.1	533.4	489.0
47.5°	851.7	847.5	840.9	823.5	788.4	734.7	672.9	619.5	575.1	534.3	495.0
50°	832.8	830.4	825.3	810.6	779.1	727.2	668.1	616.8	574.5	538.8	503.4
52.5°	831.0	829.5	823.2	808.5	776.4	724.8	667.5	618.3	579.6	544.5	509.4
55°	1015.6	994.3	946.6	906.0	839.4	760.2	697.8	642.6	601.2	567.0	542.4
57.5°	1443.4	1411.6	1348.9	1271.8	1118.8	968.5	848.1	761.1	718.2	702.6	711.9
60°	1643.8	1638.1	1628.2	1591.6	1513.3	1384.0	1240.0	1084.3	1021.9	1016.5	1035.4
62.5°	1738.9	1735.3	1738.3	1733.8	1709.5	1671.7	1630.3	1563.1	1501.3	1461.4	1376.8
65°	1782.7	1785.1	1802.2	1815.7	1818.7	1828.6	1858.9	1942.6	2003.8	1900.9	1666.0
67.5°	1671.4	1685.5	1724.8	1774.0	1831.6	1887.4	1977.4	2153.8	2279.5	2158.6	1825.0
69°	1383.7	1390.6	1486.6	1579.3	1720.0	1818.4	1948.9	2180.2	2321.5	2185.0	1812.4
70°	1089.4	1095.7	1198.6	1324.6	1562.5	1689.1	1859.8	2135.5	2282.2	2149.9	1747.6
72.5°	491.4	482.4	518.7	586.2	844.8	1045.9	1344.4	1730.2	1882.9	1722.4	1307.5
75°	343.2	339.3	343.2	343.5	383.7	495.0	624.6	937.9	1159.9	1000.9	624.6
77.5°	265.8	263.1	260.4	257.4	262.2	293.7	306.3	332.7	432.0	408.6	238.2
80°	210.3	207.9	214.5	212.4	212.4	216.0	213.6	203.7	185.1	171.6	153.6
82.5°	97.8	98.4	98.4	106.8	128.7	150.3	157.2	147.3	130.8	111.3	89.7
85°	9.3	10.5	17.7	27.3	54.3	61.2	61.5	51.0	51.0	40.2	32.4
87.5°	0.0	0.3	0.3	0.3	2.7	7.5	6.3	1.8	0.9	0.9	1.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3
2.5°	159.6	158.7	155.1	151.5	148.2	144.6	141.3	138.0	134.4	131.7	128.4
5°	186.6	180.0	172.5	165.3	158.1	150.6	142.8	135.9	128.7	122.1	115.8
7.5°	213.9	201.0	190.8	177.9	166.2	154.5	143.7	132.6	122.4	112.8	103.8
10°	237.0	221.4	205.5	189.0	172.2	156.6	141.6	128.4	114.9	103.2	92.1
12.5°	255.9	236.1	216.6	195.9	177.0	157.2	138.6	122.7	106.8	93.6	82.2
15°	273.0	250.2	226.8	202.8	178.8	156.3	135.6	115.8	99.6	84.6	71.7
17.5°	286.8	260.7	234.3	207.3	181.5	155.1	131.7	111.0	92.1	76.5	63.9
20°	298.8	271.5	243.0	212.7	183.3	154.8	128.4	105.0	85.5	69.0	56.7
22.5°	309.9	282.6	252.0	219.6	186.0	154.5	125.4	100.5	79.8	63.3	51.0
25°	322.5	293.7	261.6	226.8	190.8	155.7	123.6	96.9	74.7	57.9	46.5
27.5°	336.6	306.3	273.0	235.8	197.1	158.1	123.0	93.0	70.2	52.8	42.9
30°	356.4	321.3	284.4	244.8	202.8	160.8	122.4	90.6	65.7	48.9	39.3
32.5°	373.8	336.0	297.0	254.1	209.1	163.5	122.1	87.3	61.5	45.0	36.6
35°	392.1	349.5	307.8	263.1	214.5	166.5	121.8	84.9	57.6	41.1	33.9
37.5°	408.0	360.9	316.2	270.9	220.5	169.2	122.1	82.8	54.0	37.8	31.5
40°	421.5	372.6	325.5	278.1	226.8	173.4	122.4	80.7	50.4	34.8	29.4
42.5°	433.5	383.7	335.4	286.2	234.0	178.2	124.2	78.9	47.4	32.1	27.3
45°	442.8	393.9	346.2	297.6	245.7	186.0	127.5	77.7	44.4	29.7	25.5
47.5°	452.4	408.9	364.5	315.6	262.8	198.3	133.2	77.4	42.0	27.9	24.0
50°	465.6	423.9	380.7	333.9	278.4	210.9	140.1	77.7	39.0	26.1	22.5
52.5°	475.2	439.2	401.7	365.7	315.6	249.3	166.8	83.1	37.5	24.6	20.7
55°	531.9	525.6	526.5	532.5	493.8	424.2	279.0	120.0	44.1	27.9	20.4
57.5°	750.0	772.2	785.1	784.8	720.9	597.9	374.7	154.2	49.2	32.4	24.3
60°	1036.9	1020.1	996.4	937.9	852.9	682.5	419.1	165.9	42.6	25.8	22.2
62.5°	1290.4	1192.0	1104.7	1009.9	898.5	711.9	428.1	165.0	37.2	19.5	15.6
65°	1448.5	1271.5	1130.5	1011.7	880.5	687.3	405.0	151.5	31.5	15.9	12.9
67.5°	1486.3	1228.6	1029.1	877.5	735.6	534.9	297.3	114.0	24.6	13.2	11.4
69°	1403.8	1092.1	852.6	680.7	535.2	354.9	183.9	72.0	18.9	12.0	10.5
70°	1291.3	949.9	694.5	546.3	396.3	249.3	128.7	50.7	15.3	11.1	9.6
72.5°	830.7	498.9	341.4	237.6	163.5	99.3	50.4	22.8	11.7	9.3	7.8
75°	322.2	184.5	133.8	101.7	79.5	55.2	30.6	14.7	9.9	7.8	6.0
77.5°	158.7	121.5	99.3	68.1	39.6	24.6	16.5	11.4	8.1	5.7	3.9
80°	125.4	83.4	49.8	30.9	23.4	17.7	12.6	9.3	6.0	3.6	2.7
82.5°	64.2	35.1	25.8	21.0	17.4	13.8	10.2	6.6	3.9	2.4	2.1
85°	20.1	14.7	13.2	12.9	12.0	9.9	7.2	4.2	2.4	1.5	1.5
87.5°	1.5	2.1	2.7	2.1	2.4	2.1	2.7	1.8	1.2	1.2	0.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3
2.5°	126.0	122.4	119.1	117.0	113.1	111.6	110.1	109.5	106.8	107.4	105.0
5°	110.1	103.8	99.0	94.2	89.7	86.4	83.7	80.4	77.7	76.5	74.1
7.5°	95.7	87.6	81.3	76.2	70.8	66.6	63.0	60.6	58.2	55.8	54.6
10°	83.1	74.4	67.2	62.1	57.0	53.4	50.7	48.9	47.4	46.5	46.2
12.5°	71.4	63.0	56.4	51.9	48.0	46.2	45.0	44.1	43.8	43.5	43.5
15°	62.4	54.0	48.9	45.6	43.8	42.9	42.6	42.0	41.4	41.1	41.1
17.5°	54.0	47.7	44.1	42.3	41.4	40.8	40.2	39.6	39.0	38.7	38.7
20°	48.3	43.2	41.4	40.2	39.3	38.7	37.8	37.2	36.9	36.6	36.3
22.5°	43.8	40.5	39.3	38.4	37.2	36.3	35.7	35.1	34.5	34.2	33.9
25°	40.5	38.4	37.5	36.3	35.1	34.2	33.3	32.4	31.8	31.5	30.9
27.5°	38.1	36.6	35.4	33.9	32.7	31.8	30.9	30.0	29.4	28.8	28.5
30°	36.0	34.5	33.0	31.8	30.3	29.4	28.2	27.3	27.0	26.4	25.8
32.5°	33.9	32.4	30.9	29.4	27.9	26.7	26.1	24.9	24.3	24.0	23.4
35°	31.5	30.0	28.2	27.0	25.5	24.3	23.4	22.5	21.9	21.3	21.0
37.5°	29.4	27.6	25.8	24.3	23.1	21.9	21.0	20.1	19.5	18.9	18.6
40°	27.0	25.2	23.4	21.9	20.7	19.8	18.9	18.0	17.4	17.1	17.1
42.5°	24.9	22.8	21.0	19.8	18.9	17.7	16.8	15.9	15.6	15.3	15.6
45°	22.8	20.7	19.2	18.0	17.1	15.9	15.0	14.4	14.1	14.4	14.7
47.5°	21.0	18.9	17.4	16.5	15.6	14.7	13.8	13.2	13.2	13.8	14.4
50°	19.2	17.1	15.9	15.3	14.4	13.5	12.3	12.0	12.3	12.9	13.5
52.5°	17.4	15.0	14.1	13.8	12.9	12.0	11.1	10.8	11.1	11.7	11.4
55°	15.6	13.2	12.9	12.6	11.7	10.5	9.6	9.6	9.6	9.3	8.7
57.5°	15.0	11.7	11.4	11.1	10.2	9.0	8.4	7.8	7.5	6.6	6.3
60°	15.6	10.5	10.5	9.9	9.0	7.8	6.9	6.0	5.4	4.8	4.8
62.5°	12.6	9.6	9.3	8.7	7.5	6.3	5.4	4.5	4.2	3.9	3.9
65°	10.2	8.7	8.1	7.2	6.3	5.1	4.2	3.6	3.3	3.3	3.6
67.5°	9.3	7.8	6.9	6.0	5.1	3.9	3.3	3.0	3.0	3.3	3.3
69°	8.7	7.2	6.3	5.4	4.5	3.6	3.0	3.0	3.0	3.0	3.3
70°	8.1	6.9	6.0	5.1	3.9	3.0	2.7	2.7	3.0	3.0	3.3
72.5°	6.3	5.4	5.1	4.2	3.0	2.7	2.4	2.7	2.7	3.0	3.0
75°	4.8	3.9	3.9	3.3	2.4	2.1	2.1	2.4	2.4	2.7	2.7
77.5°	3.3	2.7	2.7	2.4	2.1	1.8	1.8	2.1	2.4	2.4	2.7
80°	2.4	2.1	1.8	2.1	1.8	1.5	1.8	2.1	2.1	2.4	2.4
82.5°	1.8	1.8	1.8	1.8	1.5	1.5	1.8	1.8	2.1	2.4	2.4
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.8	1.8	2.1	2.1
87.5°	0.9	0.9	0.9	1.2	1.2	1.5	1.5	1.5	1.5	1.8	1.8
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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CATALOG NUMBER: ICS-E01-LED-E1-SL4-HSS

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	138.3	138.3	138.3	138.3
2.5°	104.4	104.1	102.9	103.2
5°	73.2	71.4	72.6	72.3
7.5°	53.7	53.4	53.1	53.7
10°	45.9	45.9	45.6	45.9
12.5°	43.2	43.2	43.2	43.2
15°	41.1	41.1	40.8	40.8
17.5°	38.7	38.7	38.7	38.4
20°	36.3	36.0	36.0	36.0
22.5°	33.6	33.3	33.3	33.3
25°	30.9	30.6	30.6	30.6
27.5°	28.2	27.9	27.6	27.6
30°	25.5	25.2	24.9	24.9
32.5°	22.8	22.5	22.2	22.2
35°	20.4	20.4	20.1	19.8
37.5°	18.3	18.3	18.3	18.3
40°	16.8	17.1	17.1	17.1
42.5°	15.9	16.2	16.5	16.8
45°	15.3	15.9	16.2	16.2
47.5°	15.0	15.3	15.6	15.6
50°	13.8	13.5	13.5	13.5
52.5°	11.1	10.5	10.2	9.9
55°	8.1	7.8	7.2	7.2
57.5°	5.7	5.7	5.4	5.4
60°	4.5	4.5	4.2	4.5
62.5°	3.9	3.9	3.9	3.9
65°	3.6	3.6	3.6	3.6
67.5°	3.6	3.6	3.6	3.6
69°	3.3	3.3	3.3	3.3
70°	3.3	3.3	3.3	3.3
72.5°	3.0	3.0	3.0	3.0
75°	2.7	3.0	3.0	3.0
77.5°	2.7	2.7	2.7	2.7
80°	2.4	2.4	2.7	2.7
82.5°	2.4	2.4	2.4	2.4
85°	2.1	2.1	2.4	2.4
87.5°	1.8	1.8	2.1	2.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)