

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: P180816

Luminaire Tested: **ICS-E01-LED-E1-SL4-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180816
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-8030
Description: ICON SITE SMALL LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1545.7 lumens
Efficiency: N/A
Efficacy: 62.6 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

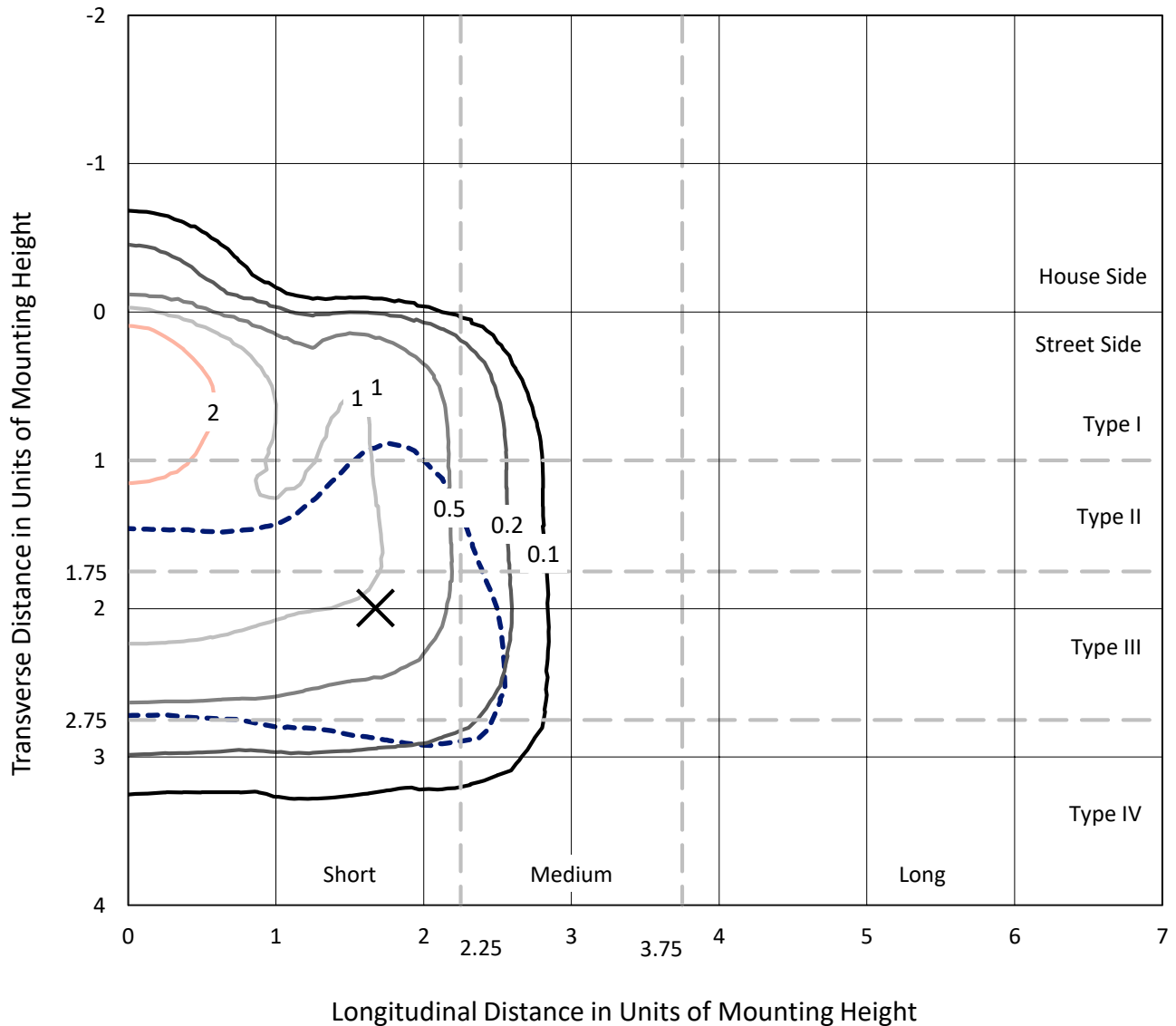
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

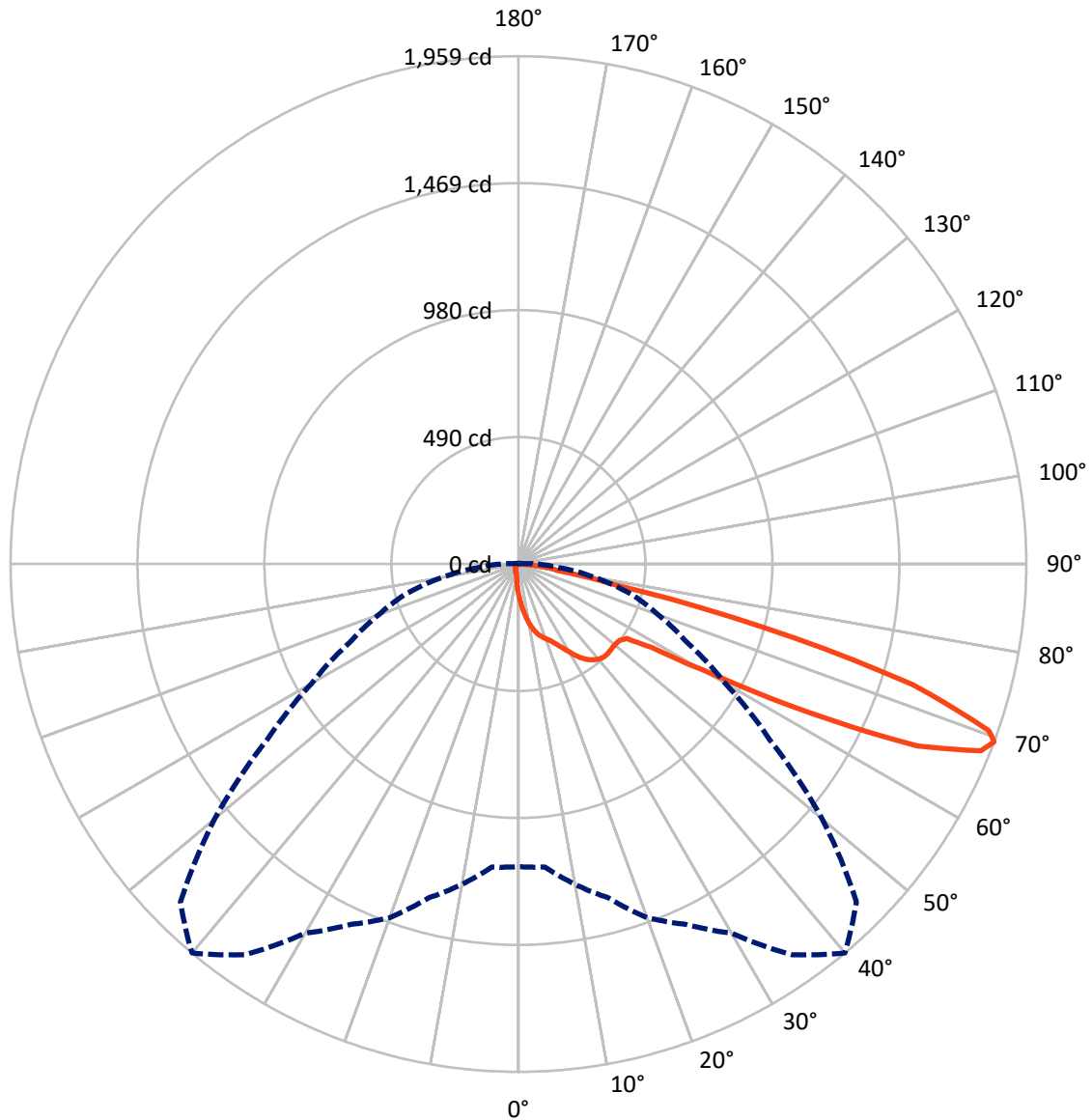
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.5 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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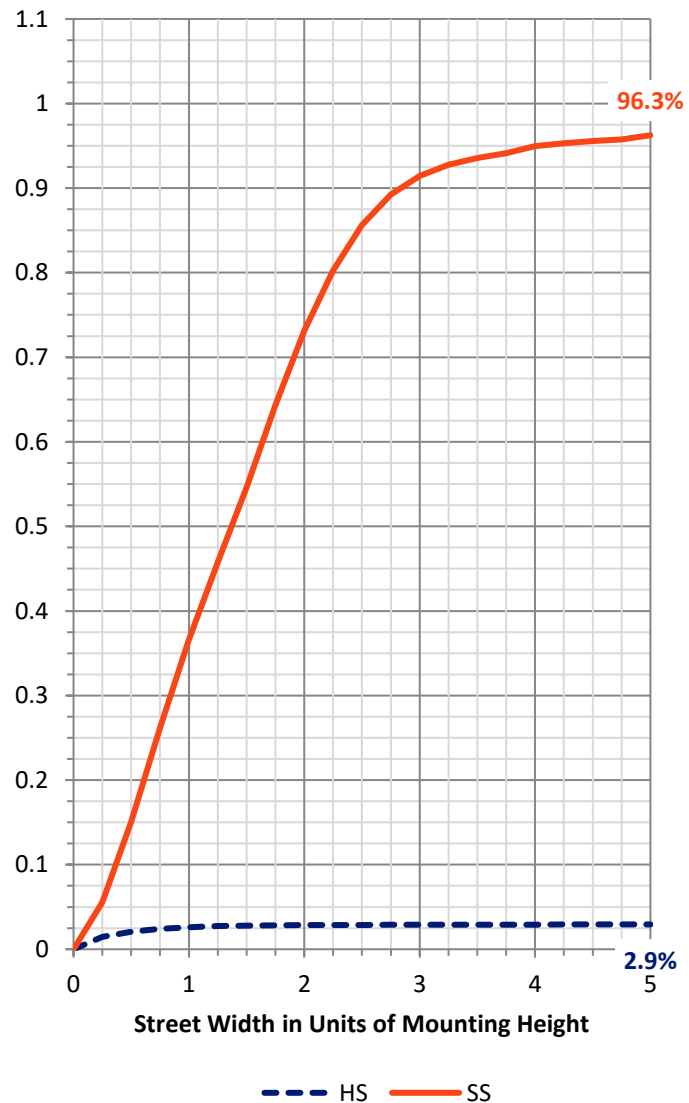
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	46.0	0.0	46.0
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	1499.7	0.0	1499.7
	% Fixture	97.0	0.0	97.0
Total	Lumens	1545.7	0.0	1545.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.0	0.8
10°-20°	41.4	2.7
20°-30°	79.2	5.1
30°-40°	131.7	8.5
40°-50°	178.2	11.5
50°-60°	278.6	18.0
60°-70°	572.9	37.1
70°-80°	230.5	14.9
80°-90°	21.3	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°	1545.7	100.0
0°-180°	1545.7	100.0



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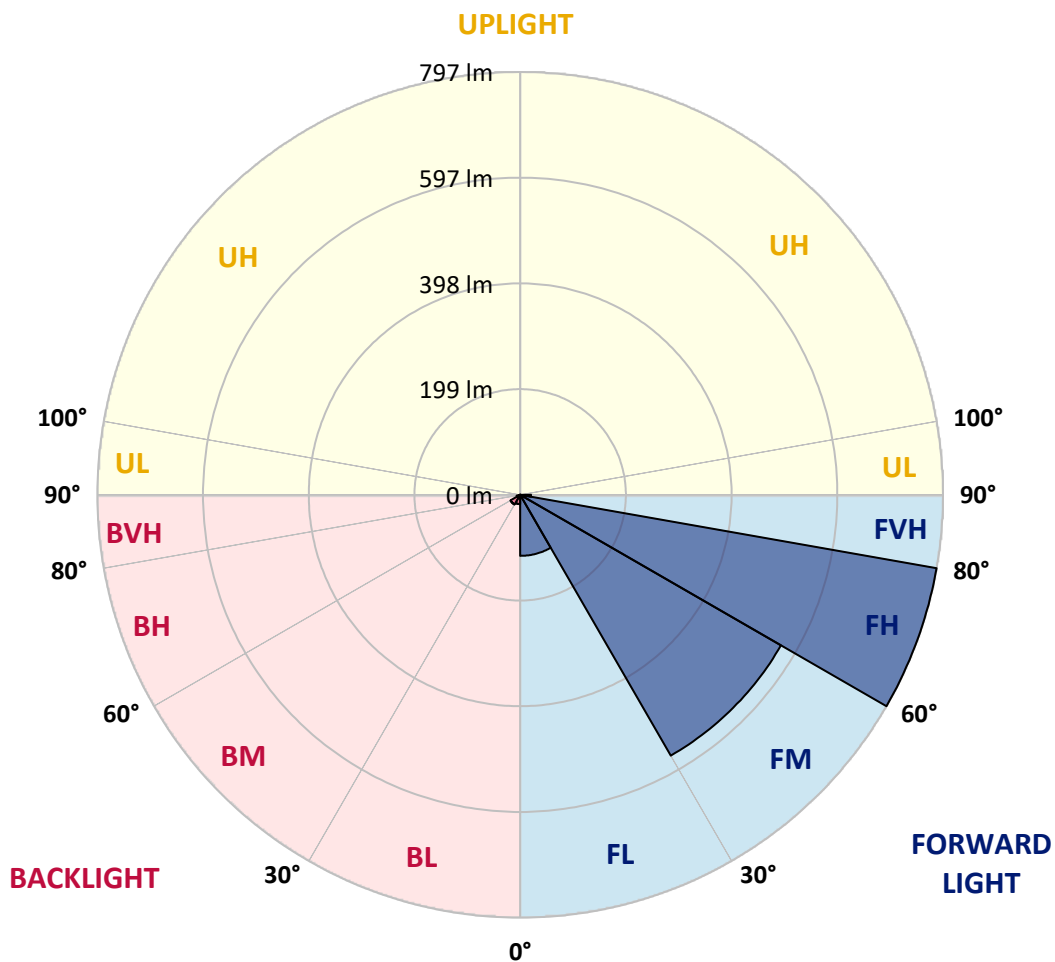
CATALOG NUMBER: ICS-E01-LED-E1-SL4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	115.0	7.4			
FM (30°-60°)	567.5	36.7			
FH (60°-80°)	796.7	51.5			G1/1800
FVH (80°-90°)	20.5	1.3			G1/100
BL (0°-30°)	17.5	1.1	B0/110		
BM (30°-60°)	21.0	1.4	B0/220		
BH (60°-80°)	6.7	0.4	B0/110		G0/110
BVH (80°-90°)	0.8	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°	116.7	116.7	116.7	116.7	116.7	116.7	116.7	116.7	116.7	116.7	116.7
2.5°	155.7	154.0	151.9	151.9	149.4	149.4	147.9	143.8	143.3	141.0	138.8
5°	198.8	197.3	194.7	192.4	190.4	186.9	184.3	179.5	174.2	169.1	164.6
7.5°	240.8	240.0	235.5	234.7	231.4	225.6	220.5	213.5	204.3	197.3	188.9
10°	279.8	278.0	277.0	272.7	267.9	261.6	253.7	245.1	234.5	223.3	211.4
12.5°	310.7	309.7	305.1	303.3	298.3	292.0	282.1	270.9	260.3	245.9	231.9
15°	333.7	332.0	328.9	326.1	320.1	314.5	305.4	293.2	280.3	264.6	247.9
17.5°	353.0	349.7	348.9	344.6	338.3	331.7	321.6	310.4	295.2	279.5	261.3
20°	378.8	374.2	372.7	366.4	359.1	349.9	338.3	324.4	308.4	291.2	272.5
22.5°	409.2	405.9	402.6	397.0	387.7	374.8	357.8	342.6	322.3	303.3	283.1
25°	452.2	449.4	444.1	436.5	424.9	409.4	388.9	366.6	342.8	318.5	294.7
27.5°	494.0	491.5	487.7	481.9	468.7	451.7	426.4	398.0	367.9	338.5	312.2
30°	533.3	531.0	527.2	521.4	509.7	493.0	464.4	434.0	396.5	362.3	330.7
32.5°	575.5	574.8	570.5	562.1	552.0	529.5	498.3	465.7	427.7	388.2	351.2
35°	623.4	617.6	613.5	605.2	588.0	563.9	527.4	491.7	451.7	411.2	369.9
37.5°	663.9	658.3	653.3	642.6	621.6	591.0	549.7	510.5	469.2	427.9	385.9
40°	693.5	690.8	684.7	670.8	647.2	610.7	566.2	523.4	481.9	440.3	398.8
42.5°	715.6	711.3	704.4	690.0	662.1	620.6	572.8	528.7	487.7	447.9	407.2
45°	723.7	720.1	713.8	698.1	668.0	623.4	572.5	527.2	487.9	450.2	412.7
47.5°	718.9	715.3	709.8	695.1	665.4	620.1	568.0	522.9	485.4	451.0	417.8
50°	702.9	700.9	696.6	684.2	657.6	613.8	563.9	520.6	484.9	454.8	424.9
52.5°	701.4	700.1	694.8	682.4	655.3	611.8	563.4	521.9	489.2	459.6	430.0
55°	857.1	839.1	798.9	764.7	708.5	641.6	589.0	542.4	507.4	478.6	457.8
57.5°	1218.2	1191.4	1138.4	1073.4	944.2	817.4	715.8	642.4	606.2	593.0	600.9
60°	1387.3	1382.5	1374.2	1343.3	1277.2	1168.1	1046.5	915.1	862.4	857.9	873.8
62.5°	1467.6	1464.6	1467.1	1463.3	1442.8	1410.9	1375.9	1319.2	1267.1	1233.4	1162.0
65°	1504.6	1506.6	1521.0	1532.4	1535.0	1543.3	1568.9	1639.5	1691.2	1604.3	1406.1
67.5°	1410.6	1422.5	1455.7	1497.2	1545.9	1593.0	1668.9	1817.8	1923.9	1821.9	1540.3
69°	1167.8	1173.6	1254.7	1332.9	1451.7	1534.7	1644.9	1840.1	1959.3	1844.1	1529.6
70°	919.4	924.7	1011.6	1117.9	1318.7	1425.6	1569.7	1802.4	1926.2	1814.5	1475.0
72.5°	414.8	407.2	437.8	494.8	713.0	882.7	1134.6	1460.3	1589.2	1453.7	1103.5
75°	289.7	286.4	289.7	289.9	323.9	417.8	527.2	791.5	978.9	844.7	527.2
77.5°	224.3	222.1	219.8	217.3	221.3	247.9	258.5	280.8	364.6	344.9	201.0
80°	177.5	175.5	181.0	179.3	179.3	182.3	180.3	171.9	156.2	144.8	129.6
82.5°	82.5	83.1	83.1	90.1	108.6	126.9	132.7	124.3	110.4	93.9	75.7
85°	7.8	8.9	14.9	23.0	45.8	51.7	51.9	43.0	43.0	33.9	27.3
87.5°	0.0	0.3	0.3	0.3	2.3	6.3	5.3	1.5	0.8	0.8	1.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	116.7	116.7	116.7	116.7	116.7	116.7	116.7	116.7	116.7	116.7	116.7
2.5°	134.7	133.9	130.9	127.9	125.1	122.0	119.3	116.5	113.4	111.2	108.4
5°	157.5	151.9	145.6	139.5	133.4	127.1	120.5	114.7	108.6	103.1	97.7
7.5°	180.5	169.7	161.0	150.2	140.3	130.4	121.3	111.9	103.3	95.2	87.6
10°	200.0	186.9	173.4	159.5	145.3	132.2	119.5	108.4	97.0	87.1	77.7
12.5°	216.0	199.3	182.8	165.3	149.4	132.7	117.0	103.6	90.1	79.0	69.4
15°	230.4	211.2	191.4	171.2	150.9	131.9	114.5	97.7	84.1	71.4	60.5
17.5°	242.1	220.0	197.8	175.0	153.2	130.9	111.2	93.7	77.7	64.6	53.9
20°	252.2	229.2	205.1	179.5	154.7	130.7	108.4	88.6	72.2	58.2	47.9
22.5°	261.6	238.5	212.7	185.4	157.0	130.4	105.8	84.8	67.4	53.4	43.0
25°	272.2	247.9	220.8	191.4	161.0	131.4	104.3	81.8	63.0	48.9	39.2
27.5°	284.1	258.5	230.4	199.0	166.4	133.4	103.8	78.5	59.3	44.6	36.2
30°	300.8	271.2	240.0	206.6	171.2	135.7	103.3	76.5	55.5	41.3	33.2
32.5°	315.5	283.6	250.7	214.5	176.5	138.0	103.1	73.7	51.9	38.0	30.9
35°	330.9	295.0	259.8	222.1	181.0	140.5	102.8	71.7	48.6	34.7	28.6
37.5°	344.4	304.6	266.9	228.6	186.1	142.8	103.1	69.9	45.6	31.9	26.6
40°	355.8	314.5	274.7	234.7	191.4	146.4	103.3	68.1	42.5	29.4	24.8
42.5°	365.9	323.9	283.1	241.6	197.5	150.4	104.8	66.6	40.0	27.1	23.0
45°	373.7	332.5	292.2	251.2	207.4	157.0	107.6	65.6	37.5	25.1	21.5
47.5°	381.8	345.1	307.7	266.4	221.8	167.4	112.4	65.3	35.4	23.5	20.3
50°	393.0	357.8	321.3	281.8	235.0	178.0	118.2	65.6	32.9	22.0	19.0
52.5°	401.1	370.7	339.0	308.7	266.4	210.4	140.8	70.1	31.7	20.8	17.5
55°	448.9	443.6	444.4	449.4	416.8	358.0	235.5	101.3	37.2	23.5	17.2
57.5°	633.0	651.8	662.7	662.4	608.5	504.6	316.3	130.2	41.5	27.3	20.5
60°	875.1	860.9	840.9	791.5	719.9	576.1	353.7	140.0	36.0	21.8	18.7
62.5°	1089.1	1006.0	932.3	852.3	758.4	600.9	361.3	139.3	31.4	16.5	13.2
65°	1222.5	1073.1	954.1	853.8	743.2	580.1	341.8	127.9	26.6	13.4	10.9
67.5°	1254.4	1036.9	868.5	740.6	620.9	451.5	250.9	96.2	20.8	11.1	9.6
69°	1184.8	921.7	719.6	574.5	451.7	299.5	155.2	60.8	16.0	10.1	8.9
70°	1089.8	801.7	586.2	461.1	334.5	210.4	108.6	42.8	12.9	9.4	8.1
72.5°	701.1	421.1	288.2	200.5	138.0	83.8	42.5	19.2	9.9	7.8	6.6
75°	271.9	155.7	112.9	85.8	67.1	46.6	25.8	12.4	8.4	6.6	5.1
77.5°	133.9	102.6	83.8	57.5	33.4	20.8	13.9	9.6	6.8	4.8	3.3
80°	105.8	70.4	42.0	26.1	19.8	14.9	10.6	7.8	5.1	3.0	2.3
82.5°	54.2	29.6	21.8	17.7	14.7	11.6	8.6	5.6	3.3	2.0	1.8
85°	17.0	12.4	11.1	10.9	10.1	8.4	6.1	3.5	2.0	1.3	1.3
87.5°	1.3	1.8	2.3	1.8	2.0	1.8	2.3	1.5	1.0	1.0	0.8
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	116.7	116.7	116.7	116.7	116.7	116.7	116.7	116.7	116.7	116.7	116.7
2.5°	106.3	103.3	100.5	98.8	95.5	94.2	92.9	92.4	90.1	90.6	88.6
5°	92.9	87.6	83.6	79.5	75.7	72.9	70.6	67.9	65.6	64.6	62.5
7.5°	80.8	73.9	68.6	64.3	59.8	56.2	53.2	51.1	49.1	47.1	46.1
10°	70.1	62.8	56.7	52.4	48.1	45.1	42.8	41.3	40.0	39.2	39.0
12.5°	60.3	53.2	47.6	43.8	40.5	39.0	38.0	37.2	37.0	36.7	36.7
15°	52.7	45.6	41.3	38.5	37.0	36.2	36.0	35.4	34.9	34.7	34.7
17.5°	45.6	40.3	37.2	35.7	34.9	34.4	33.9	33.4	32.9	32.7	32.7
20°	40.8	36.5	34.9	33.9	33.2	32.7	31.9	31.4	31.1	30.9	30.6
22.5°	37.0	34.2	33.2	32.4	31.4	30.6	30.1	29.6	29.1	28.9	28.6
25°	34.2	32.4	31.7	30.6	29.6	28.9	28.1	27.3	26.8	26.6	26.1
27.5°	32.2	30.9	29.9	28.6	27.6	26.8	26.1	25.3	24.8	24.3	24.1
30°	30.4	29.1	27.9	26.8	25.6	24.8	23.8	23.0	22.8	22.3	21.8
32.5°	28.6	27.3	26.1	24.8	23.5	22.5	22.0	21.0	20.5	20.3	19.8
35°	26.6	25.3	23.8	22.8	21.5	20.5	19.8	19.0	18.5	18.0	17.7
37.5°	24.8	23.3	21.8	20.5	19.5	18.5	17.7	17.0	16.5	16.0	15.7
40°	22.8	21.3	19.8	18.5	17.5	16.7	16.0	15.2	14.7	14.4	14.4
42.5°	21.0	19.2	17.7	16.7	16.0	14.9	14.2	13.4	13.2	12.9	13.2
45°	19.2	17.5	16.2	15.2	14.4	13.4	12.7	12.2	11.9	12.2	12.4
47.5°	17.7	16.0	14.7	13.9	13.2	12.4	11.6	11.1	11.1	11.6	12.2
50°	16.2	14.4	13.4	12.9	12.2	11.4	10.4	10.1	10.4	10.9	11.4
52.5°	14.7	12.7	11.9	11.6	10.9	10.1	9.4	9.1	9.4	9.9	9.6
55°	13.2	11.1	10.9	10.6	9.9	8.9	8.1	8.1	8.1	7.8	7.3
57.5°	12.7	9.9	9.6	9.4	8.6	7.6	7.1	6.6	6.3	5.6	5.3
60°	13.2	8.9	8.9	8.4	7.6	6.6	5.8	5.1	4.6	4.1	4.1
62.5°	10.6	8.1	7.8	7.3	6.3	5.3	4.6	3.8	3.5	3.3	3.3
65°	8.6	7.3	6.8	6.1	5.3	4.3	3.5	3.0	2.8	2.8	3.0
67.5°	7.8	6.6	5.8	5.1	4.3	3.3	2.8	2.5	2.5	2.8	2.8
69°	7.3	6.1	5.3	4.6	3.8	3.0	2.5	2.5	2.5	2.5	2.8
70°	6.8	5.8	5.1	4.3	3.3	2.5	2.3	2.3	2.5	2.5	2.8
72.5°	5.3	4.6	4.3	3.5	2.5	2.3	2.0	2.3	2.3	2.5	2.5
75°	4.1	3.3	3.3	2.8	2.0	1.8	1.8	2.0	2.0	2.3	2.3
77.5°	2.8	2.3	2.3	2.0	1.8	1.5	1.5	1.8	2.0	2.0	2.3
80°	2.0	1.8	1.5	1.8	1.5	1.3	1.5	1.8	1.8	2.0	2.0
82.5°	1.5	1.5	1.5	1.5	1.3	1.3	1.5	1.5	1.8	2.0	2.0
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.5	1.5	1.8	1.8
87.5°	0.8	0.8	0.8	1.0	1.0	1.3	1.3	1.3	1.3	1.5	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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CATALOG NUMBER: ICS-E01-LED-E1-SL4-HSS-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	116.7	116.7	116.7	116.7
2.5°	88.1	87.9	86.9	87.1
5°	61.8	60.3	61.3	61.0
7.5°	45.3	45.1	44.8	45.3
10°	38.7	38.7	38.5	38.7
12.5°	36.5	36.5	36.5	36.5
15°	34.7	34.7	34.4	34.4
17.5°	32.7	32.7	32.7	32.4
20°	30.6	30.4	30.4	30.4
22.5°	28.4	28.1	28.1	28.1
25°	26.1	25.8	25.8	25.8
27.5°	23.8	23.5	23.3	23.3
30°	21.5	21.3	21.0	21.0
32.5°	19.2	19.0	18.7	18.7
35°	17.2	17.2	17.0	16.7
37.5°	15.4	15.4	15.4	15.4
40°	14.2	14.4	14.4	14.4
42.5°	13.4	13.7	13.9	14.2
45°	12.9	13.4	13.7	13.7
47.5°	12.7	12.9	13.2	13.2
50°	11.6	11.4	11.4	11.4
52.5°	9.4	8.9	8.6	8.4
55°	6.8	6.6	6.1	6.1
57.5°	4.8	4.8	4.6	4.6
60°	3.8	3.8	3.5	3.8
62.5°	3.3	3.3	3.3	3.3
65°	3.0	3.0	3.0	3.0
67.5°	3.0	3.0	3.0	3.0
69°	2.8	2.8	2.8	2.8
70°	2.8	2.8	2.8	2.8
72.5°	2.5	2.5	2.5	2.5
75°	2.3	2.5	2.5	2.5
77.5°	2.3	2.3	2.3	2.3
80°	2.0	2.0	2.3	2.3
82.5°	2.0	2.0	2.0	2.0
85°	1.8	1.8	2.0	2.0
87.5°	1.5	1.5	1.8	1.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)