

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: P181607

Luminaire Tested: **ICS-E04-LED-E1-T4-HSS-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P181607  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33725)  
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-T4-HSS-8030  
Description: ICON SITE SMALL LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD  
Light Source: (84) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5876.6 lumens  
Efficiency: N/A  
Efficacy: 60.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G2

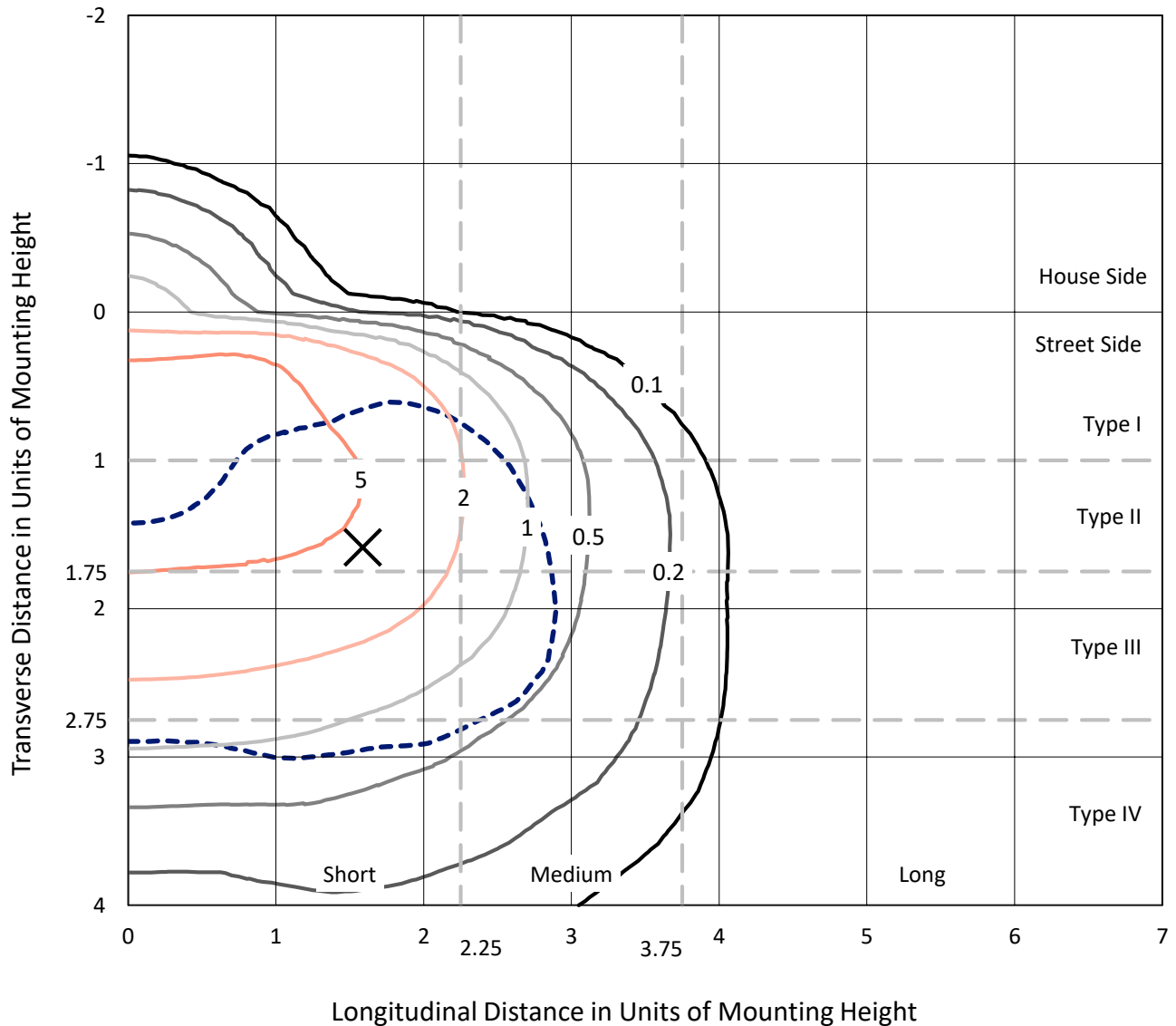
Input Watts (W): 97.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

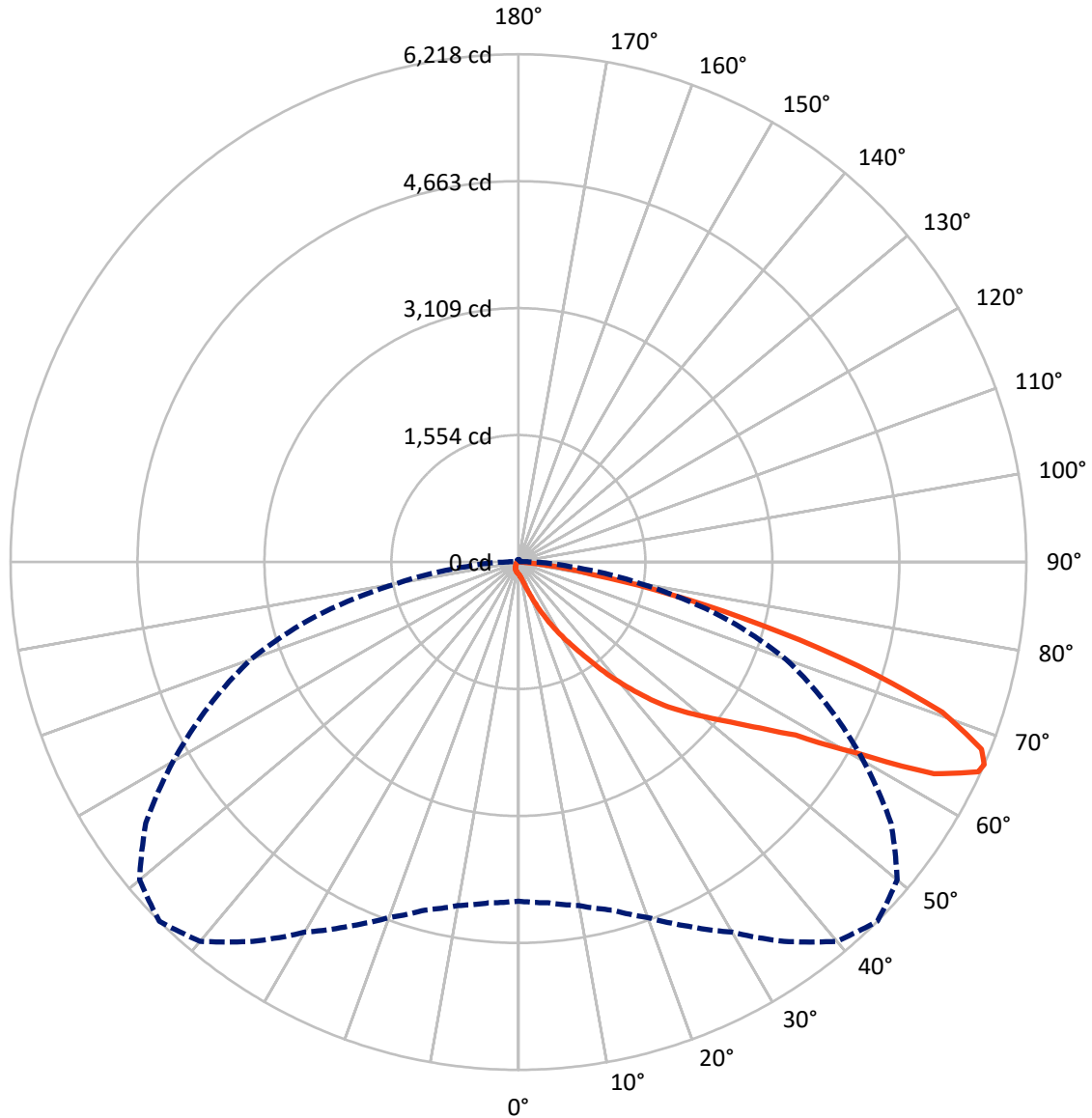
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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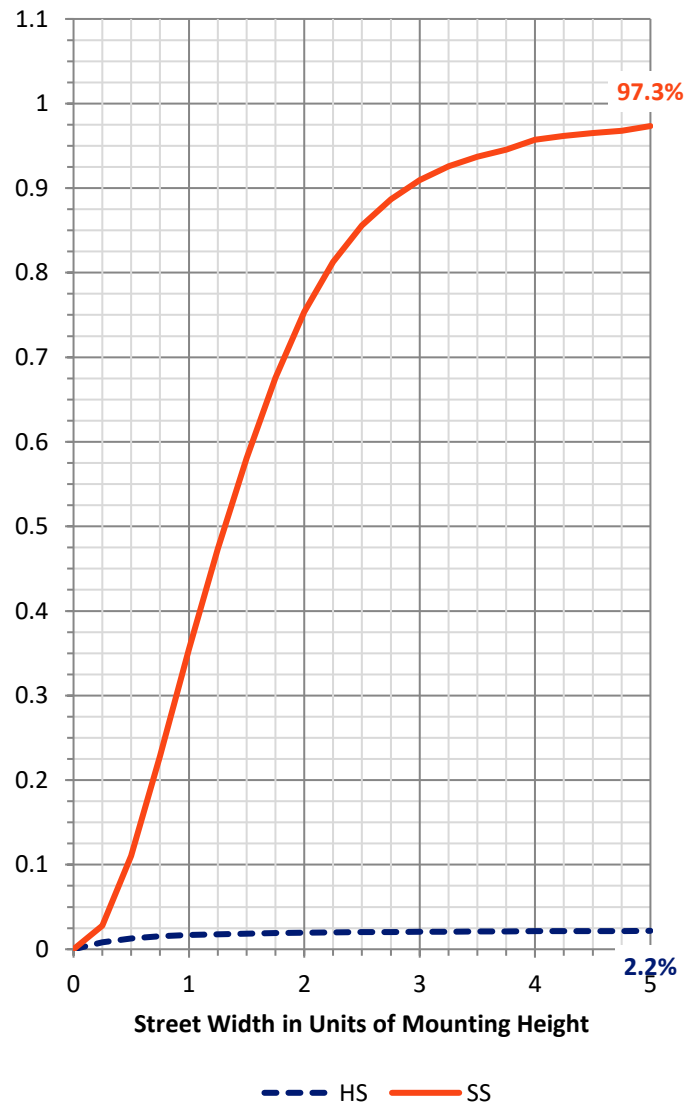
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	133.2	0.0	133.2
	% Fixture	2.3	0.0	2.3
<b>Street Side</b>	Lumens	5743.4	0.0	5743.4
	% Fixture	97.7	0.0	97.7
<b>Total</b>	Lumens	5876.6	0.0	5876.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.8	0.3
10°-20°	59.9	1.0
20°-30°	175.6	3.0
30°-40°	410.1	7.0
40°-50°	770.3	13.1
50°-60°	1276.6	21.7
60°-70°	2026.6	34.5
70°-80°	1048.1	17.8
80°-90°	94.7	1.6
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°	5876.6	100.0
0°-180°	5876.6	100.0



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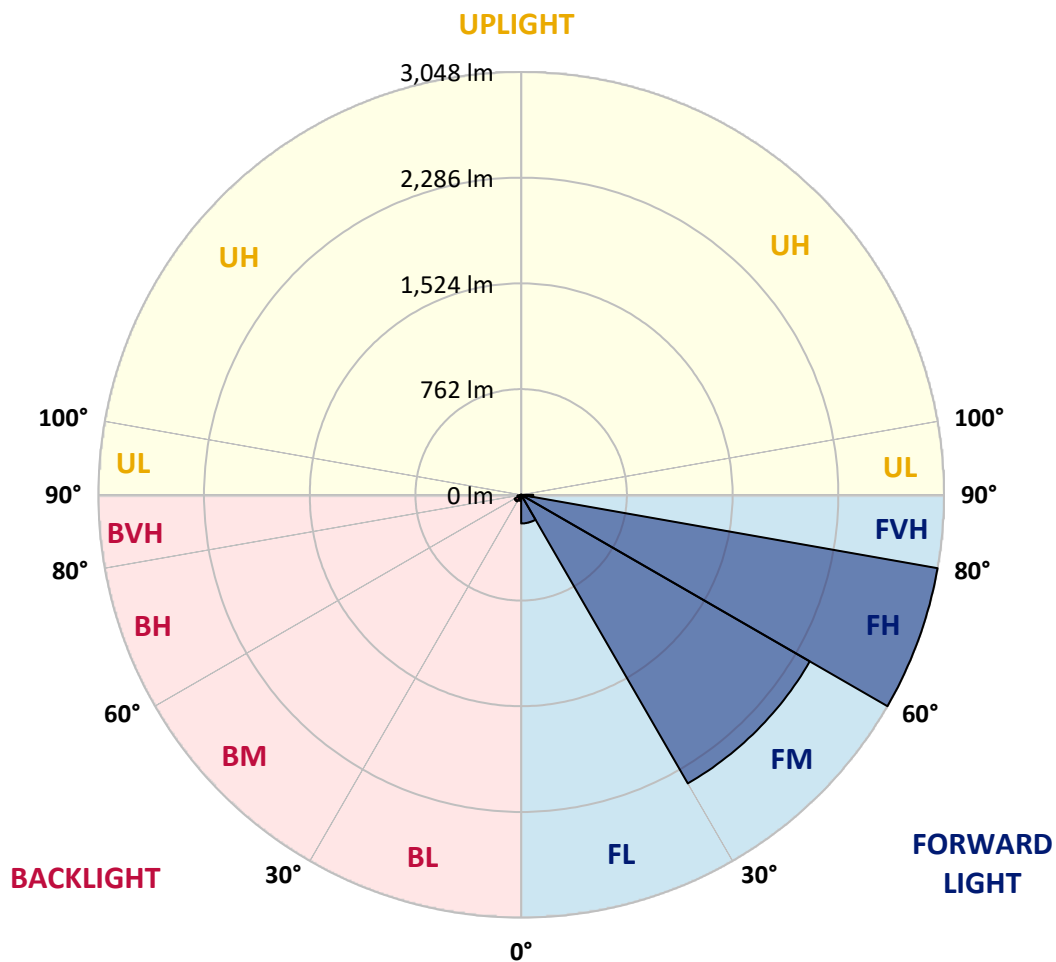
CATALOG NUMBER: ICS-E04-LED-E1-T4-HSS-8030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	206.8	3.5			
FM	(30°-60°)	2401.8	40.9			
FH	(60°-80°)	3047.7	51.9			G2/5000
FVH	(80°-90°)	87.2	1.5			G1/100
BL	(0°-30°)	43.5	0.7	B0/110		
BM	(30°-60°)	55.2	0.9	B0/220		
BH	(60°-80°)	27.0	0.5	B0/110		G0/110
BVH	(80°-90°)	7.5	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	146.9	146.9	146.9	146.9	146.9	146.9	146.9	146.9	146.9	146.9	146.9
2.5°	159.0	159.0	159.0	159.0	158.0	157.0	156.0	155.0	154.0	154.0	152.9
5°	180.3	181.3	180.3	179.3	177.2	176.2	173.2	171.2	168.1	167.1	164.1
7.5°	209.7	208.6	209.7	206.6	202.6	201.6	197.5	192.4	188.4	182.3	178.3
10°	252.2	251.2	252.2	246.1	240.0	235.0	227.9	221.8	212.7	205.6	197.5
12.5°	320.1	320.1	318.0	309.9	301.8	290.7	279.5	266.4	250.2	236.0	222.8
15°	424.4	419.3	410.2	405.1	391.0	373.7	361.6	335.3	312.0	289.7	263.3
17.5°	550.0	539.8	532.8	521.6	503.4	481.1	460.8	422.4	399.1	362.6	325.1
20°	693.8	681.6	679.6	662.4	643.2	618.8	589.5	543.9	504.4	458.8	406.2
22.5°	840.7	842.7	834.6	822.4	803.2	774.8	729.2	687.7	639.1	581.4	513.5
25°	1004.7	1003.7	996.6	982.5	968.3	932.8	896.4	856.9	799.1	725.2	644.2
27.5°	1158.7	1157.7	1140.5	1141.5	1114.1	1101.0	1065.5	1023.0	953.1	891.3	803.2
30°	1319.7	1309.6	1298.5	1290.4	1271.1	1247.8	1229.6	1179.0	1126.3	1053.4	981.4
32.5°	1482.8	1471.7	1474.7	1464.6	1449.4	1426.1	1398.7	1357.2	1300.5	1229.6	1162.7
35°	1682.3	1677.3	1669.2	1672.2	1669.2	1651.9	1628.7	1574.0	1512.2	1444.3	1375.4
37.5°	1830.2	1825.1	1830.2	1851.5	1856.5	1867.7	1850.5	1823.1	1778.6	1704.6	1632.7
40°	1966.9	1968.0	1991.3	2017.6	2035.8	2072.3	2078.4	2067.2	2031.8	1963.9	1869.7
42.5°	2089.5	2104.7	2126.0	2169.5	2209.0	2260.7	2299.2	2305.2	2278.9	2234.3	2139.1
45°	2226.2	2239.4	2272.8	2324.5	2379.2	2443.0	2504.8	2537.2	2535.1	2503.8	2401.5
47.5°	2379.2	2396.4	2432.9	2475.4	2548.3	2620.2	2700.2	2758.0	2782.3	2738.7	2639.5
50°	2564.5	2571.6	2603.0	2657.7	2724.6	2807.6	2894.7	2978.8	3026.4	2985.9	2883.6
52.5°	2784.3	2786.3	2815.7	2866.3	2920.0	3011.2	3096.3	3212.7	3274.5	3252.2	3129.7
55°	3086.1	3080.1	3100.3	3143.9	3187.4	3275.5	3360.6	3492.3	3582.4	3584.5	3453.8
57.5°	3498.4	3484.2	3497.4	3531.8	3580.4	3662.4	3769.8	3886.3	4006.8	3998.7	3891.3
60°	4072.6	4067.6	4091.9	4149.6	4232.7	4317.8	4439.3	4596.3	4702.6	4739.1	4626.7
62.5°	4454.5	4468.7	4524.4	4613.5	4773.5	4949.8	5175.6	5415.7	5618.2	5709.4	5554.4
65°	4290.4	4313.7	4400.8	4532.5	4744.2	5008.5	5308.3	5702.3	6051.7	6190.5	6029.5
66°	4151.6	4189.1	4271.2	4410.9	4631.7	4920.4	5233.4	5668.9	6061.9	6217.9	6053.8
67.5°	3911.6	3937.9	4031.1	4186.1	4423.1	4708.7	5047.0	5506.8	5950.5	6115.6	5952.5
70°	3422.4	3432.5	3508.5	3640.2	3823.5	4116.2	4423.1	4865.7	5273.9	5505.8	5327.6
72.5°	2547.3	2561.5	2687.1	2927.1	3165.1	3331.2	3512.5	3867.0	4130.4	4347.1	4312.7
75°	1225.5	1231.6	1315.7	1666.1	2130.0	2328.5	2496.7	2771.1	2871.4	3052.7	3025.4
77.5°	776.9	790.0	844.7	929.8	1193.1	1429.1	1561.8	1718.8	1748.2	1901.1	1812.0
80°	213.7	248.1	302.8	445.7	764.7	911.6	971.3	965.2	971.3	924.7	894.3
82.5°	43.6	42.5	51.7	80.0	337.3	530.7	573.3	488.2	485.2	466.9	482.1
85°	11.1	10.1	12.2	25.3	57.7	157.0	197.5	110.4	84.1	80.0	70.9
87.5°	3.0	3.0	3.0	5.1	6.1	8.1	11.1	8.1	6.1	6.1	6.1
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	146.9	146.9	146.9	146.9	146.9	146.9	146.9	146.9	146.9	146.9	146.9
2.5°	151.9	151.9	150.9	149.9	149.9	148.9	147.9	146.9	145.8	144.8	143.8
5°	161.0	159.0	156.0	154.0	151.9	148.9	146.9	144.8	142.8	141.8	139.8
7.5°	173.2	168.1	164.1	158.0	154.0	149.9	145.8	142.8	139.8	137.7	135.7
10°	188.4	180.3	172.2	164.1	157.0	150.9	144.8	139.8	136.7	133.7	131.7
12.5°	207.6	195.5	184.3	172.2	161.0	151.9	143.8	137.7	133.7	130.7	127.6
15°	239.0	219.8	200.5	182.3	168.1	154.0	142.8	135.7	130.7	127.6	124.6
17.5°	288.7	254.2	223.8	198.5	175.2	157.0	142.8	133.7	127.6	123.6	120.5
20°	360.6	303.9	255.2	218.8	188.4	162.1	142.8	130.7	124.6	119.5	116.5
22.5°	445.7	374.8	307.9	247.1	203.6	169.1	142.8	127.6	120.5	116.5	112.4
25°	570.2	476.0	384.9	299.8	228.9	180.3	145.8	125.6	117.5	112.4	108.4
27.5°	716.1	602.6	489.2	369.7	267.4	196.5	149.9	123.6	114.5	108.4	104.3
30°	882.2	756.6	617.8	462.9	318.0	217.8	157.0	122.6	110.4	104.3	99.3
32.5°	1062.5	929.8	777.9	582.4	393.0	250.2	166.1	121.5	106.3	99.3	93.2
35°	1277.2	1153.6	968.3	750.5	509.5	305.9	186.4	123.6	102.3	94.2	87.1
37.5°	1512.2	1380.5	1184.0	928.8	624.9	368.7	201.6	120.5	95.2	87.1	80.0
40°	1749.2	1598.3	1398.7	1116.2	771.8	445.7	220.8	117.5	88.1	80.0	72.9
42.5°	1980.1	1821.1	1604.3	1308.6	926.8	536.8	245.1	117.5	83.1	72.9	65.8
45°	2222.2	2030.8	1793.7	1492.9	1080.7	641.1	279.5	116.5	77.0	66.8	58.7
47.5°	2451.1	2224.2	1951.8	1655.0	1245.8	755.6	319.0	117.5	71.9	60.8	53.7
50°	2667.8	2407.5	2113.8	1799.8	1403.8	879.1	367.7	118.5	66.8	55.7	48.6
52.5°	2904.8	2616.2	2288.0	1948.7	1559.8	1003.7	424.4	120.5	61.8	50.6	44.6
55°	3198.6	2878.5	2502.7	2131.0	1724.9	1129.3	479.1	122.6	56.7	46.6	40.5
57.5°	3621.9	3257.3	2851.2	2404.5	1943.6	1272.1	535.8	127.6	52.7	43.6	37.5
60°	4310.7	3876.2	3407.2	2880.5	2270.8	1465.6	617.8	138.8	47.6	39.5	35.4
62.5°	5139.2	4616.5	4020.0	3380.9	2578.7	1596.2	672.5	150.9	43.6	36.5	33.4
65°	5556.5	4898.1	4210.4	3520.6	2618.2	1557.8	650.2	146.9	38.5	32.4	28.4
66°	5568.6	4882.9	4184.1	3490.3	2577.7	1511.2	629.0	144.8	37.5	31.4	26.3
67.5°	5453.2	4752.3	4044.3	3352.5	2458.2	1421.0	590.5	137.7	34.4	28.4	23.3
70°	4882.9	4200.3	3551.0	2911.9	2114.8	1197.2	495.3	121.5	30.4	25.3	21.3
72.5°	3892.4	3336.3	2789.4	2291.1	1643.8	898.4	391.0	99.3	26.3	22.3	18.2
75°	2718.5	2261.7	1845.4	1489.9	1033.1	537.8	253.2	69.9	22.3	18.2	15.2
77.5°	1517.2	1203.3	909.5	692.8	412.2	168.1	84.1	35.4	19.2	14.2	12.2
80°	771.8	572.3	435.5	321.1	190.4	87.1	42.5	23.3	15.2	11.1	10.1
82.5°	448.7	329.2	262.3	207.6	130.7	65.8	34.4	17.2	10.1	8.1	9.1
85°	100.3	132.7	112.4	95.2	69.9	41.5	24.3	11.1	7.1	7.1	8.1
87.5°	8.1	11.1	10.1	13.2	14.2	13.2	10.1	6.1	5.1	6.1	6.1
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	146.9	146.9	146.9	146.9	146.9	146.9	146.9	146.9	146.9	146.9	146.9
2.5°	142.8	141.8	141.8	140.8	139.8	139.8	139.8	138.8	139.8	139.8	139.8
5°	138.8	137.7	136.7	135.7	134.7	133.7	133.7	132.7	132.7	132.7	133.7
7.5°	134.7	132.7	131.7	129.6	128.6	127.6	127.6	126.6	126.6	126.6	126.6
10°	129.6	127.6	125.6	124.6	123.6	121.5	121.5	120.5	119.5	119.5	119.5
12.5°	125.6	123.6	121.5	119.5	117.5	116.5	115.5	114.5	113.4	113.4	113.4
15°	121.5	118.5	116.5	114.5	112.4	110.4	109.4	108.4	107.4	106.3	106.3
17.5°	117.5	114.5	111.4	109.4	107.4	105.3	104.3	101.3	101.3	100.3	100.3
20°	112.4	109.4	106.3	104.3	102.3	100.3	98.2	96.2	94.2	93.2	93.2
22.5°	108.4	105.3	102.3	99.3	96.2	93.2	91.2	89.1	88.1	87.1	86.1
25°	104.3	100.3	96.2	93.2	90.1	87.1	85.1	83.1	81.0	80.0	80.0
27.5°	99.3	95.2	91.2	87.1	84.1	81.0	79.0	76.0	75.0	73.9	72.9
30°	94.2	89.1	85.1	81.0	78.0	73.9	71.9	69.9	67.9	67.9	66.8
32.5°	88.1	83.1	79.0	75.0	70.9	67.9	65.8	63.8	62.8	60.8	60.8
35°	82.0	77.0	71.9	67.9	64.8	61.8	59.8	57.7	55.7	54.7	54.7
37.5°	75.0	69.9	65.8	61.8	58.7	55.7	53.7	51.7	50.6	49.6	48.6
40°	66.8	61.8	58.7	55.7	52.7	50.6	47.6	45.6	44.6	43.6	42.5
42.5°	59.8	54.7	52.7	50.6	47.6	45.6	42.5	40.5	38.5	37.5	36.5
45°	53.7	49.6	47.6	45.6	42.5	39.5	37.5	35.4	33.4	32.4	32.4
47.5°	47.6	44.6	42.5	40.5	37.5	35.4	32.4	31.4	29.4	29.4	29.4
50°	43.6	40.5	38.5	36.5	34.4	31.4	29.4	28.4	27.3	27.3	28.4
52.5°	40.5	37.5	35.4	33.4	31.4	29.4	27.3	26.3	26.3	27.3	28.4
55°	37.5	34.4	32.4	30.4	28.4	27.3	25.3	25.3	26.3	27.3	28.4
57.5°	35.4	31.4	29.4	28.4	26.3	25.3	25.3	25.3	26.3	27.3	29.4
60°	32.4	28.4	26.3	26.3	24.3	24.3	24.3	25.3	26.3	28.4	29.4
62.5°	28.4	25.3	24.3	24.3	23.3	23.3	24.3	25.3	27.3	28.4	29.4
65°	24.3	22.3	22.3	22.3	22.3	23.3	24.3	25.3	26.3	28.4	29.4
66°	22.3	21.3	21.3	22.3	22.3	23.3	24.3	25.3	26.3	27.3	28.4
67.5°	21.3	20.3	20.3	21.3	22.3	22.3	23.3	25.3	26.3	27.3	27.3
70°	18.2	18.2	18.2	20.3	21.3	22.3	23.3	24.3	25.3	26.3	27.3
72.5°	16.2	16.2	17.2	18.2	20.3	21.3	22.3	23.3	25.3	26.3	26.3
75°	14.2	14.2	16.2	17.2	19.2	20.3	22.3	23.3	24.3	25.3	25.3
77.5°	12.2	13.2	15.2	17.2	18.2	20.3	21.3	22.3	23.3	24.3	24.3
80°	11.1	13.2	15.2	16.2	17.2	18.2	19.2	21.3	22.3	23.3	24.3
82.5°	11.1	12.2	14.2	15.2	16.2	18.2	19.2	20.3	21.3	22.3	23.3
85°	9.1	11.1	12.2	14.2	15.2	17.2	18.2	18.2	19.2	20.3	21.3
87.5°	7.1	8.1	8.1	10.1	11.1	13.2	15.2	15.2	16.2	17.2	18.2
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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CATALOG NUMBER: ICS-E04-LED-E1-T4-HSS-8030

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	146.9	146.9	146.9	146.9
2.5°	139.8	140.8	140.8	140.8
5°	133.7	133.7	133.7	133.7
7.5°	126.6	126.6	126.6	126.6
10°	119.5	119.5	120.5	119.5
12.5°	113.4	112.4	112.4	112.4
15°	106.3	106.3	105.3	106.3
17.5°	99.3	99.3	98.2	98.2
20°	92.2	92.2	92.2	92.2
22.5°	86.1	85.1	85.1	85.1
25°	79.0	79.0	79.0	79.0
27.5°	72.9	72.9	72.9	72.9
30°	66.8	66.8	65.8	65.8
32.5°	60.8	60.8	60.8	60.8
35°	54.7	54.7	53.7	53.7
37.5°	47.6	47.6	47.6	47.6
40°	41.5	41.5	41.5	41.5
42.5°	36.5	36.5	35.4	35.4
45°	31.4	31.4	31.4	31.4
47.5°	29.4	29.4	29.4	29.4
50°	28.4	29.4	29.4	29.4
52.5°	29.4	29.4	29.4	29.4
55°	29.4	30.4	30.4	30.4
57.5°	29.4	30.4	30.4	31.4
60°	30.4	31.4	31.4	31.4
62.5°	30.4	31.4	31.4	31.4
65°	29.4	30.4	30.4	30.4
66°	29.4	29.4	29.4	30.4
67.5°	28.4	29.4	29.4	29.4
70°	27.3	28.4	28.4	29.4
72.5°	27.3	28.4	28.4	28.4
75°	26.3	26.3	27.3	27.3
77.5°	25.3	25.3	26.3	26.3
80°	24.3	25.3	25.3	25.3
82.5°	23.3	24.3	24.3	24.3
85°	21.3	22.3	22.3	22.3
87.5°	18.2	18.2	19.2	19.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)