

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: P181609

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181609
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
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6962.9 lumens
Efficiency: N/A
Efficacy: 71.6 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

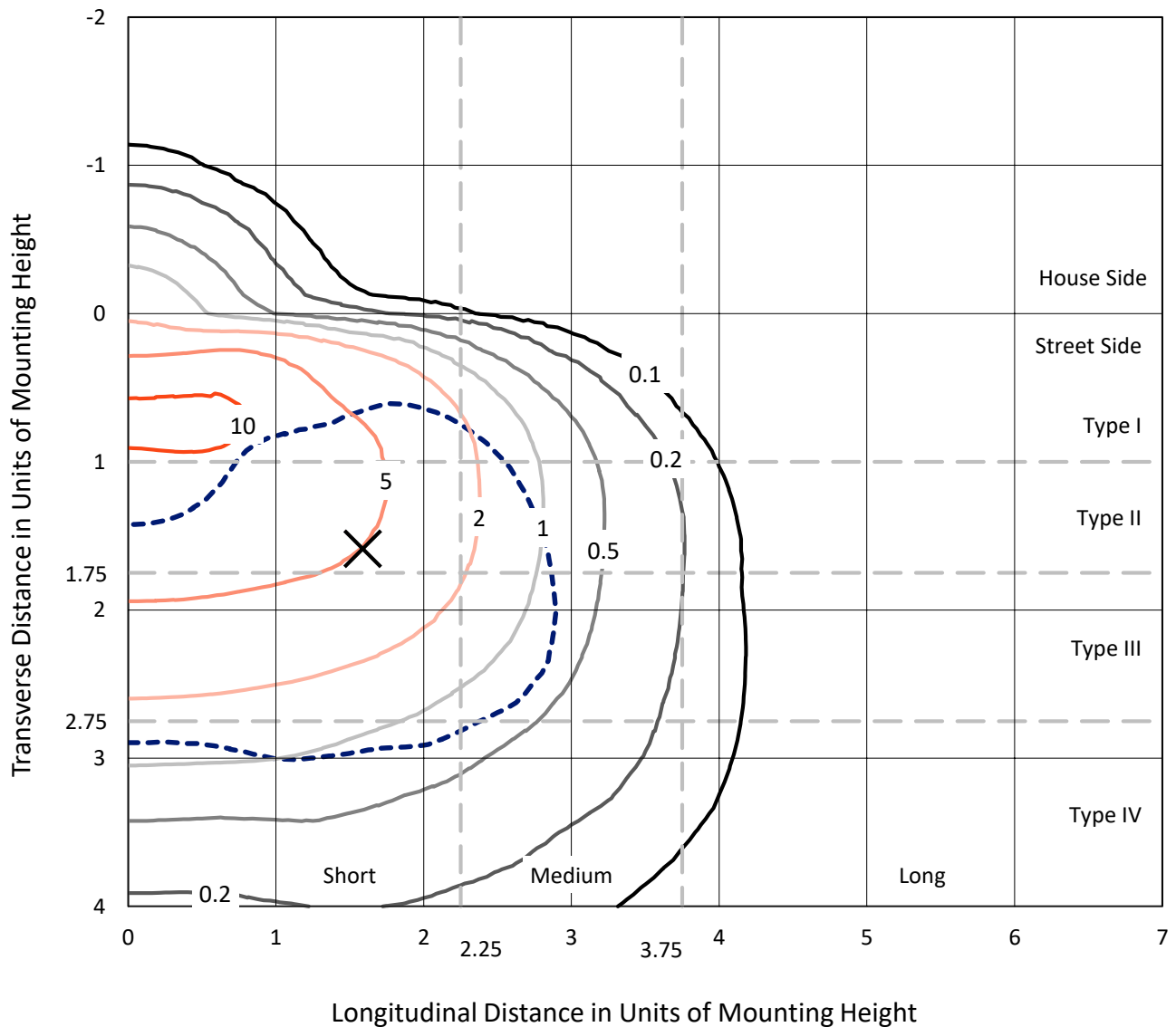
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

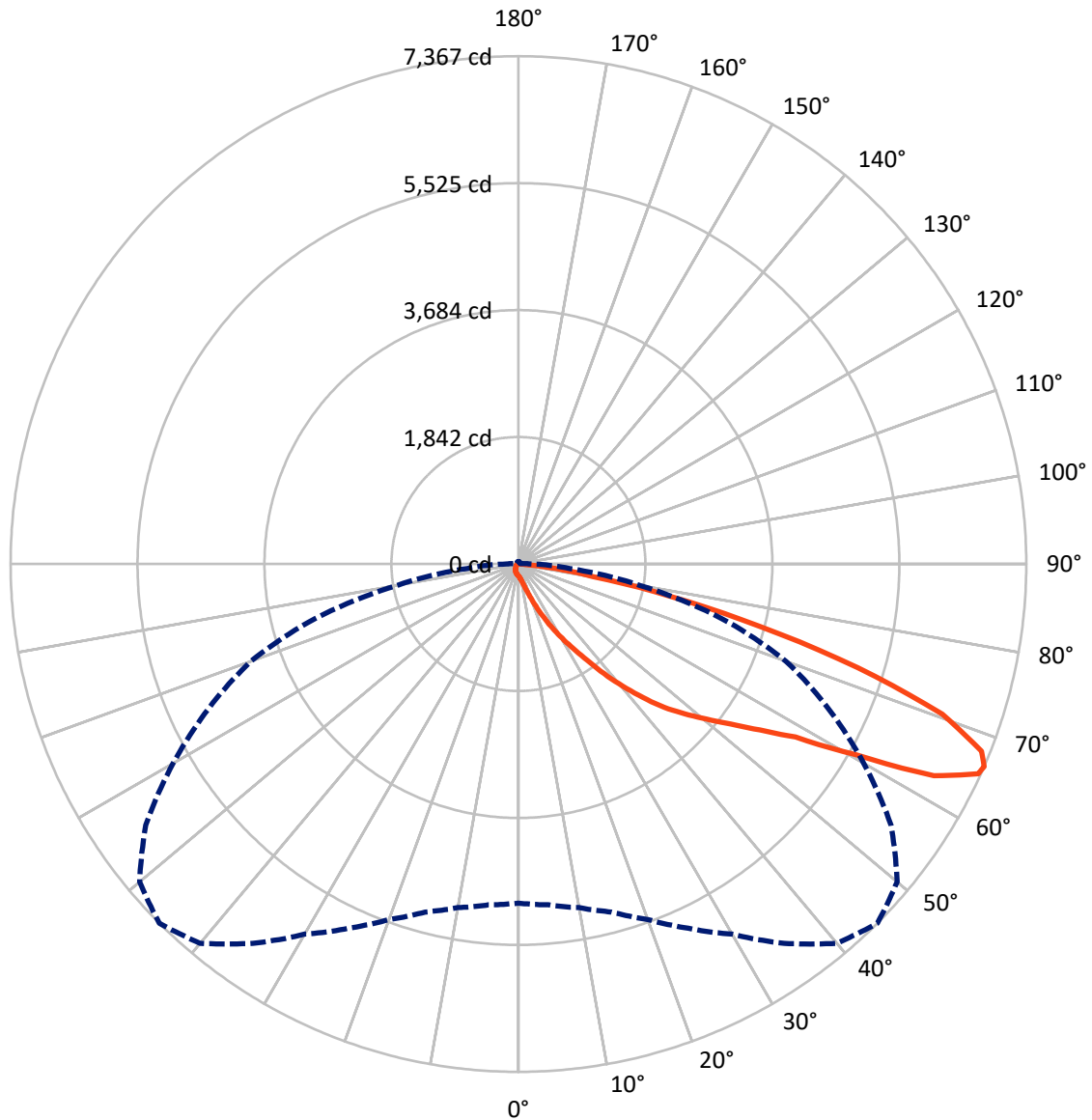
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11 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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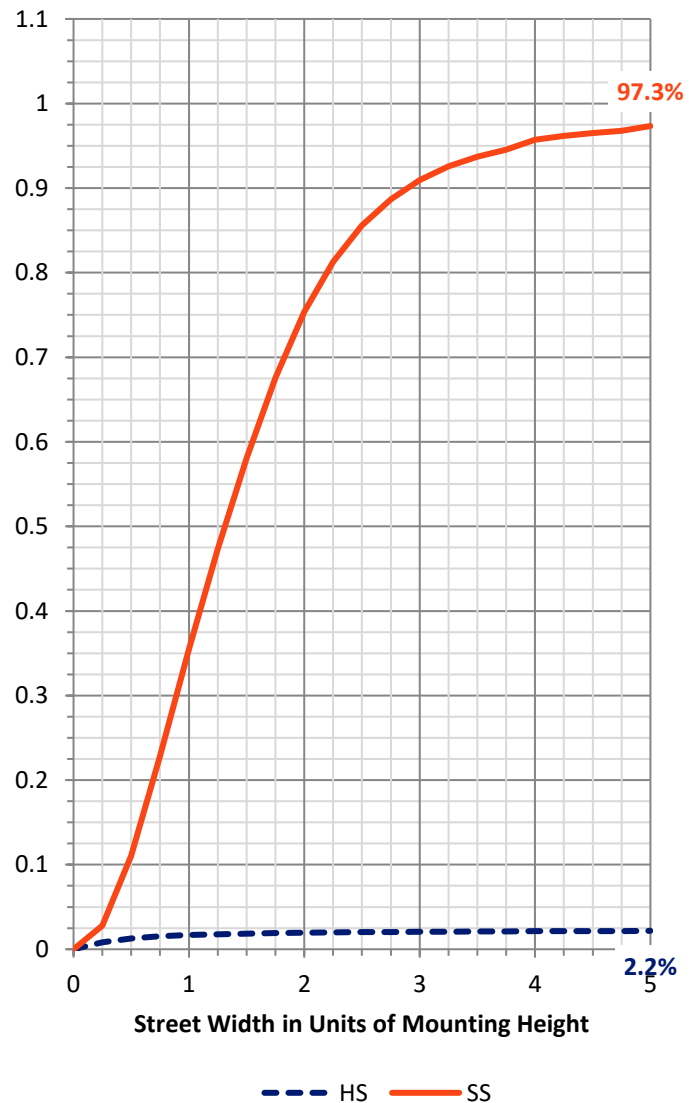
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	157.8	0.0	157.8
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	6805.1	0.0	6805.1
	% Fixture	97.7	0.0	97.7
Total	Lumens	6962.9	0.0	6962.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.5	0.3
10°-20°	71.0	1.0
20°-30°	208.0	3.0
30°-40°	485.9	7.0
40°-50°	912.7	13.1
50°-60°	1512.6	21.7
60°-70°	2401.2	34.5
70°-80°	1241.8	17.8
80°-90°	112.2	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°	6962.9	100.0
0°-180°	6962.9	100.0



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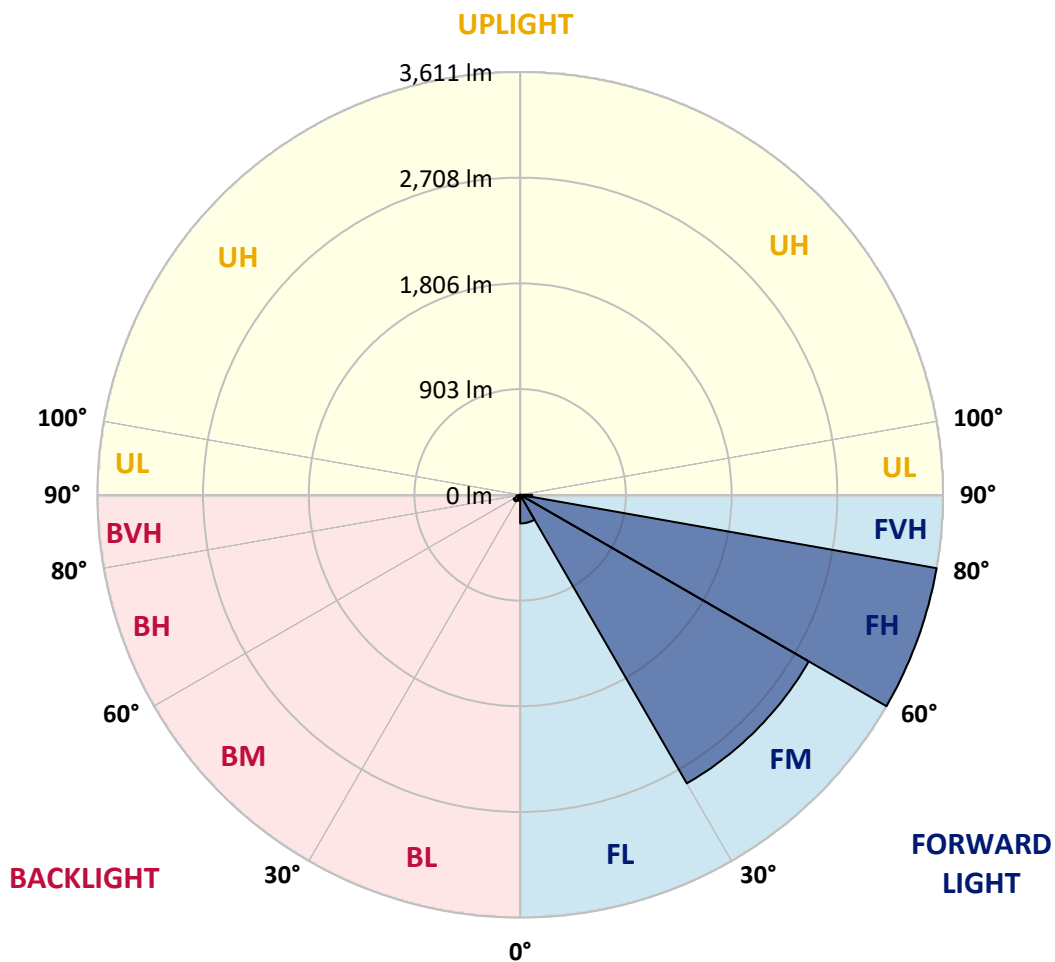
CATALOG NUMBER: ICS-E04-LED-E1-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	245.0	3.5			
FM	(30°-60°)	2845.8	40.9			
FH	(60°-80°)	3611.0	51.9			G2/5000
FVH	(80°-90°)	103.3	1.5			G2/225
BL	(0°-30°)	51.5	0.7	B0/110		
BM	(30°-60°)	65.5	0.9	B0/220		
BH	(60°-80°)	32.0	0.5	B0/110		G0/110
BVH	(80°-90°)	8.9	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	174.0	174.0	174.0	174.0	174.0	174.0	174.0	174.0	174.0	174.0	174.0
2.5°	188.4	188.4	188.4	188.4	187.2	186.0	184.8	183.6	182.4	182.4	181.2
5°	213.6	214.8	213.6	212.4	210.0	208.8	205.2	202.8	199.2	198.0	194.4
7.5°	248.4	247.2	248.4	244.8	240.0	238.8	234.0	228.0	223.2	216.0	211.2
10°	298.8	297.6	298.8	291.6	284.4	278.4	270.0	262.8	252.0	243.6	234.0
12.5°	379.2	379.2	376.8	367.2	357.6	344.4	331.2	315.6	296.4	279.6	264.0
15°	502.8	496.8	486.0	480.0	463.2	442.8	428.4	397.2	369.6	343.2	312.0
17.5°	651.6	639.6	631.2	618.0	596.4	570.0	546.0	500.4	472.8	429.6	385.2
20°	822.0	807.6	805.2	784.8	762.0	733.2	698.4	644.4	597.6	543.6	481.2
22.5°	996.1	998.5	988.9	974.5	951.7	918.0	864.0	814.8	757.2	688.8	608.4
25°	1190.5	1189.3	1180.9	1164.1	1147.3	1105.3	1062.1	1015.3	946.9	859.2	763.2
27.5°	1372.9	1371.7	1351.3	1352.5	1320.1	1304.5	1262.5	1212.1	1129.3	1056.1	951.7
30°	1563.7	1551.7	1538.5	1528.9	1506.1	1478.5	1456.9	1396.9	1334.5	1248.1	1162.9
32.5°	1756.9	1743.7	1747.3	1735.3	1717.3	1689.7	1657.3	1608.1	1540.9	1456.9	1377.7
35°	1993.3	1987.3	1977.7	1981.3	1977.7	1957.3	1929.7	1864.9	1791.7	1711.3	1629.7
37.5°	2168.5	2162.5	2168.5	2193.7	2199.7	2212.9	2192.5	2160.1	2107.3	2019.7	1934.5
40°	2330.5	2331.7	2359.3	2390.5	2412.1	2455.3	2462.5	2449.3	2407.3	2326.9	2215.3
42.5°	2475.7	2493.7	2518.9	2570.5	2617.3	2678.5	2724.1	2731.3	2700.1	2647.3	2534.5
45°	2637.7	2653.3	2692.9	2754.1	2819.0	2894.6	2967.8	3006.2	3003.8	2966.6	2845.4
47.5°	2819.0	2839.4	2882.6	2933.0	3019.4	3104.6	3199.4	3267.8	3296.6	3245.0	3127.4
50°	3038.6	3047.0	3084.2	3149.0	3228.2	3326.6	3429.8	3529.4	3585.8	3537.8	3416.6
52.5°	3299.0	3301.4	3336.2	3396.2	3459.8	3567.8	3668.6	3806.6	3879.8	3853.4	3708.2
55°	3656.6	3649.4	3673.4	3725.0	3776.6	3881.0	3981.8	4137.8	4244.6	4247.0	4092.2
57.5°	4145.0	4128.2	4143.8	4184.6	4242.2	4339.4	4466.6	4604.7	4747.5	4737.9	4610.7
60°	4825.5	4819.5	4848.3	4916.7	5015.1	5115.9	5259.9	5445.9	5571.9	5615.1	5481.9
62.5°	5277.9	5294.7	5360.7	5466.3	5655.9	5864.7	6132.3	6416.7	6656.8	6764.8	6581.2
65°	5083.5	5111.1	5214.3	5370.3	5621.1	5934.3	6289.5	6756.4	7170.4	7334.8	7144.0
66°	4919.1	4963.5	5060.7	5226.3	5487.9	5829.9	6200.7	6716.8	7182.4	7367.2	7172.8
67.5°	4634.7	4665.9	4776.3	4959.9	5240.7	5579.1	5979.9	6524.8	7050.4	7246.0	7052.8
70°	4055.0	4067.0	4157.0	4313.0	4530.2	4877.1	5240.7	5765.1	6248.7	6523.6	6312.3
72.5°	3018.2	3035.0	3183.8	3468.2	3750.2	3947.0	4161.8	4581.8	4893.9	5150.7	5109.9
75°	1452.1	1459.3	1558.9	1974.1	2523.7	2759.0	2958.2	3283.4	3402.2	3617.0	3584.6
77.5°	920.5	936.1	1000.9	1101.7	1413.7	1693.3	1850.5	2036.5	2071.3	2252.5	2146.9
80°	253.2	294.0	358.8	528.0	906.0	1080.1	1150.9	1143.7	1150.9	1095.7	1059.7
82.5°	51.6	50.4	61.2	94.8	399.6	628.8	679.2	578.4	574.8	553.2	571.2
85°	13.2	12.0	14.4	30.0	68.4	186.0	234.0	130.8	99.6	94.8	84.0
87.5°	3.6	3.6	3.6	6.0	7.2	9.6	13.2	9.6	7.2	7.2	7.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	174.0	174.0	174.0	174.0	174.0	174.0	174.0	174.0	174.0	174.0	174.0
2.5°	180.0	180.0	178.8	177.6	177.6	176.4	175.2	174.0	172.8	171.6	170.4
5°	190.8	188.4	184.8	182.4	180.0	176.4	174.0	171.6	169.2	168.0	165.6
7.5°	205.2	199.2	194.4	187.2	182.4	177.6	172.8	169.2	165.6	163.2	160.8
10°	223.2	213.6	204.0	194.4	186.0	178.8	171.6	165.6	162.0	158.4	156.0
12.5°	246.0	231.6	218.4	204.0	190.8	180.0	170.4	163.2	158.4	154.8	151.2
15°	283.2	260.4	237.6	216.0	199.2	182.4	169.2	160.8	154.8	151.2	147.6
17.5°	342.0	301.2	265.2	235.2	207.6	186.0	169.2	158.4	151.2	146.4	142.8
20°	427.2	360.0	302.4	259.2	223.2	192.0	169.2	154.8	147.6	141.6	138.0
22.5°	528.0	444.0	364.8	292.8	241.2	200.4	169.2	151.2	142.8	138.0	133.2
25°	675.6	564.0	456.0	355.2	271.2	213.6	172.8	148.8	139.2	133.2	128.4
27.5°	848.4	714.0	579.6	438.0	316.8	232.8	177.6	146.4	135.6	128.4	123.6
30°	1045.3	896.4	732.0	548.4	376.8	258.0	186.0	145.2	130.8	123.6	117.6
32.5°	1258.9	1101.7	921.7	690.0	465.6	296.4	196.8	144.0	126.0	117.6	110.4
35°	1513.3	1366.9	1147.3	889.2	603.6	362.4	220.8	146.4	121.2	111.6	103.2
37.5°	1791.7	1635.7	1402.9	1100.5	740.4	436.8	238.8	142.8	112.8	103.2	94.8
40°	2072.5	1893.7	1657.3	1322.5	914.4	528.0	261.6	139.2	104.4	94.8	86.4
42.5°	2346.1	2157.7	1900.9	1550.5	1098.1	636.0	290.4	139.2	98.4	86.4	78.0
45°	2632.9	2406.1	2125.3	1768.9	1280.5	759.6	331.2	138.0	91.2	79.2	69.6
47.5°	2904.2	2635.3	2312.5	1960.9	1476.1	895.2	378.0	139.2	85.2	72.0	63.6
50°	3161.0	2852.6	2504.5	2132.5	1663.3	1041.7	435.6	140.4	79.2	66.0	57.6
52.5°	3441.8	3099.8	2710.9	2308.9	1848.1	1189.3	502.8	142.8	73.2	60.0	52.8
55°	3789.8	3410.6	2965.4	2524.9	2043.7	1338.1	567.6	145.2	67.2	55.2	48.0
57.5°	4291.4	3859.4	3378.2	2849.0	2302.9	1507.3	634.8	151.2	62.4	51.6	44.4
60°	5107.5	4592.6	4037.0	3413.0	2690.5	1736.5	732.0	164.4	56.4	46.8	42.0
62.5°	6089.1	5469.9	4763.1	4005.8	3055.4	1891.3	796.8	178.8	51.6	43.2	39.6
65°	6583.6	5803.5	4988.7	4171.4	3102.2	1845.7	770.4	174.0	45.6	38.4	33.6
66°	6598.0	5785.5	4957.5	4135.4	3054.2	1790.5	745.2	171.6	44.4	37.2	31.2
67.5°	6461.2	5630.7	4791.9	3972.2	2912.6	1683.7	699.6	163.2	40.8	33.6	27.6
70°	5785.5	4976.7	4207.4	3450.2	2505.7	1418.5	586.8	144.0	36.0	30.0	25.2
72.5°	4611.9	3953.0	3305.0	2714.5	1947.7	1064.5	463.2	117.6	31.2	26.4	21.6
75°	3221.0	2679.7	2186.5	1765.3	1224.1	637.2	300.0	82.8	26.4	21.6	18.0
77.5°	1797.7	1425.7	1077.7	820.8	488.4	199.2	99.6	42.0	22.8	16.8	14.4
80°	914.4	678.0	516.0	380.4	225.6	103.2	50.4	27.6	18.0	13.2	12.0
82.5°	531.6	390.0	310.8	246.0	154.8	78.0	40.8	20.4	12.0	9.6	10.8
85°	118.8	157.2	133.2	112.8	82.8	49.2	28.8	13.2	8.4	8.4	9.6
87.5°	9.6	13.2	12.0	15.6	16.8	15.6	12.0	7.2	6.0	7.2	7.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	174.0	174.0	174.0	174.0	174.0	174.0	174.0	174.0	174.0	174.0	174.0
2.5°	169.2	168.0	168.0	166.8	165.6	165.6	165.6	164.4	165.6	165.6	165.6
5°	164.4	163.2	162.0	160.8	159.6	158.4	158.4	157.2	157.2	157.2	158.4
7.5°	159.6	157.2	156.0	153.6	152.4	151.2	151.2	150.0	150.0	150.0	150.0
10°	153.6	151.2	148.8	147.6	146.4	144.0	144.0	142.8	141.6	141.6	141.6
12.5°	148.8	146.4	144.0	141.6	139.2	138.0	136.8	135.6	134.4	134.4	134.4
15°	144.0	140.4	138.0	135.6	133.2	130.8	129.6	128.4	127.2	126.0	126.0
17.5°	139.2	135.6	132.0	129.6	127.2	124.8	123.6	120.0	120.0	118.8	118.8
20°	133.2	129.6	126.0	123.6	121.2	118.8	116.4	114.0	111.6	110.4	110.4
22.5°	128.4	124.8	121.2	117.6	114.0	110.4	108.0	105.6	104.4	103.2	102.0
25°	123.6	118.8	114.0	110.4	106.8	103.2	100.8	98.4	96.0	94.8	94.8
27.5°	117.6	112.8	108.0	103.2	99.6	96.0	93.6	90.0	88.8	87.6	86.4
30°	111.6	105.6	100.8	96.0	92.4	87.6	85.2	82.8	80.4	80.4	79.2
32.5°	104.4	98.4	93.6	88.8	84.0	80.4	78.0	75.6	74.4	72.0	72.0
35°	97.2	91.2	85.2	80.4	76.8	73.2	70.8	68.4	66.0	64.8	64.8
37.5°	88.8	82.8	78.0	73.2	69.6	66.0	63.6	61.2	60.0	58.8	57.6
40°	79.2	73.2	69.6	66.0	62.4	60.0	56.4	54.0	52.8	51.6	50.4
42.5°	70.8	64.8	62.4	60.0	56.4	54.0	50.4	48.0	45.6	44.4	43.2
45°	63.6	58.8	56.4	54.0	50.4	46.8	44.4	42.0	39.6	38.4	38.4
47.5°	56.4	52.8	50.4	48.0	44.4	42.0	38.4	37.2	34.8	34.8	34.8
50°	51.6	48.0	45.6	43.2	40.8	37.2	34.8	33.6	32.4	32.4	33.6
52.5°	48.0	44.4	42.0	39.6	37.2	34.8	32.4	31.2	31.2	32.4	33.6
55°	44.4	40.8	38.4	36.0	33.6	32.4	30.0	30.0	31.2	32.4	33.6
57.5°	42.0	37.2	34.8	33.6	31.2	30.0	30.0	30.0	31.2	32.4	34.8
60°	38.4	33.6	31.2	31.2	28.8	28.8	28.8	30.0	31.2	33.6	34.8
62.5°	33.6	30.0	28.8	28.8	27.6	27.6	28.8	30.0	32.4	33.6	34.8
65°	28.8	26.4	26.4	26.4	26.4	27.6	28.8	30.0	31.2	33.6	34.8
66°	26.4	25.2	25.2	26.4	26.4	27.6	28.8	30.0	31.2	32.4	33.6
67.5°	25.2	24.0	24.0	25.2	26.4	26.4	27.6	30.0	31.2	32.4	32.4
70°	21.6	21.6	21.6	24.0	25.2	26.4	27.6	28.8	30.0	31.2	32.4
72.5°	19.2	19.2	20.4	21.6	24.0	25.2	26.4	27.6	30.0	31.2	31.2
75°	16.8	16.8	19.2	20.4	22.8	24.0	26.4	27.6	28.8	30.0	30.0
77.5°	14.4	15.6	18.0	20.4	21.6	24.0	25.2	26.4	27.6	28.8	28.8
80°	13.2	15.6	18.0	19.2	20.4	21.6	22.8	25.2	26.4	27.6	28.8
82.5°	13.2	14.4	16.8	18.0	19.2	21.6	22.8	24.0	25.2	26.4	27.6
85°	10.8	13.2	14.4	16.8	18.0	20.4	21.6	21.6	22.8	24.0	25.2
87.5°	8.4	9.6	9.6	12.0	13.2	15.6	18.0	18.0	19.2	20.4	21.6
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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	174.0	174.0	174.0	174.0
2.5°	165.6	166.8	166.8	166.8
5°	158.4	158.4	158.4	158.4
7.5°	150.0	150.0	150.0	150.0
10°	141.6	141.6	142.8	141.6
12.5°	134.4	133.2	133.2	133.2
15°	126.0	126.0	124.8	126.0
17.5°	117.6	117.6	116.4	116.4
20°	109.2	109.2	109.2	109.2
22.5°	102.0	100.8	100.8	100.8
25°	93.6	93.6	93.6	93.6
27.5°	86.4	86.4	86.4	86.4
30°	79.2	79.2	78.0	78.0
32.5°	72.0	72.0	72.0	72.0
35°	64.8	64.8	63.6	63.6
37.5°	56.4	56.4	56.4	56.4
40°	49.2	49.2	49.2	49.2
42.5°	43.2	43.2	42.0	42.0
45°	37.2	37.2	37.2	37.2
47.5°	34.8	34.8	34.8	34.8
50°	33.6	34.8	34.8	34.8
52.5°	34.8	34.8	34.8	34.8
55°	34.8	36.0	36.0	36.0
57.5°	34.8	36.0	36.0	37.2
60°	36.0	37.2	37.2	37.2
62.5°	36.0	37.2	37.2	37.2
65°	34.8	36.0	36.0	36.0
66°	34.8	34.8	34.8	36.0
67.5°	33.6	34.8	34.8	34.8
70°	32.4	33.6	33.6	34.8
72.5°	32.4	33.6	33.6	33.6
75°	31.2	31.2	32.4	32.4
77.5°	30.0	30.0	31.2	31.2
80°	28.8	30.0	30.0	30.0
82.5°	27.6	28.8	28.8	28.8
85°	25.2	26.4	26.4	26.4
87.5°	21.6	21.6	22.8	22.8
90°	0.0	0.0	0.0	0.0

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