

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: P181559

Luminaire Tested: **ICM-E05-LED-E1-T4-HSS**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P181559  
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: ICM-E05-LED-E1-T4-HSS  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD  
Light Source: (105) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8995.6 lumens  
Efficiency: N/A  
Efficacy: 70.7 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G2

Input Watts (W): 127.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

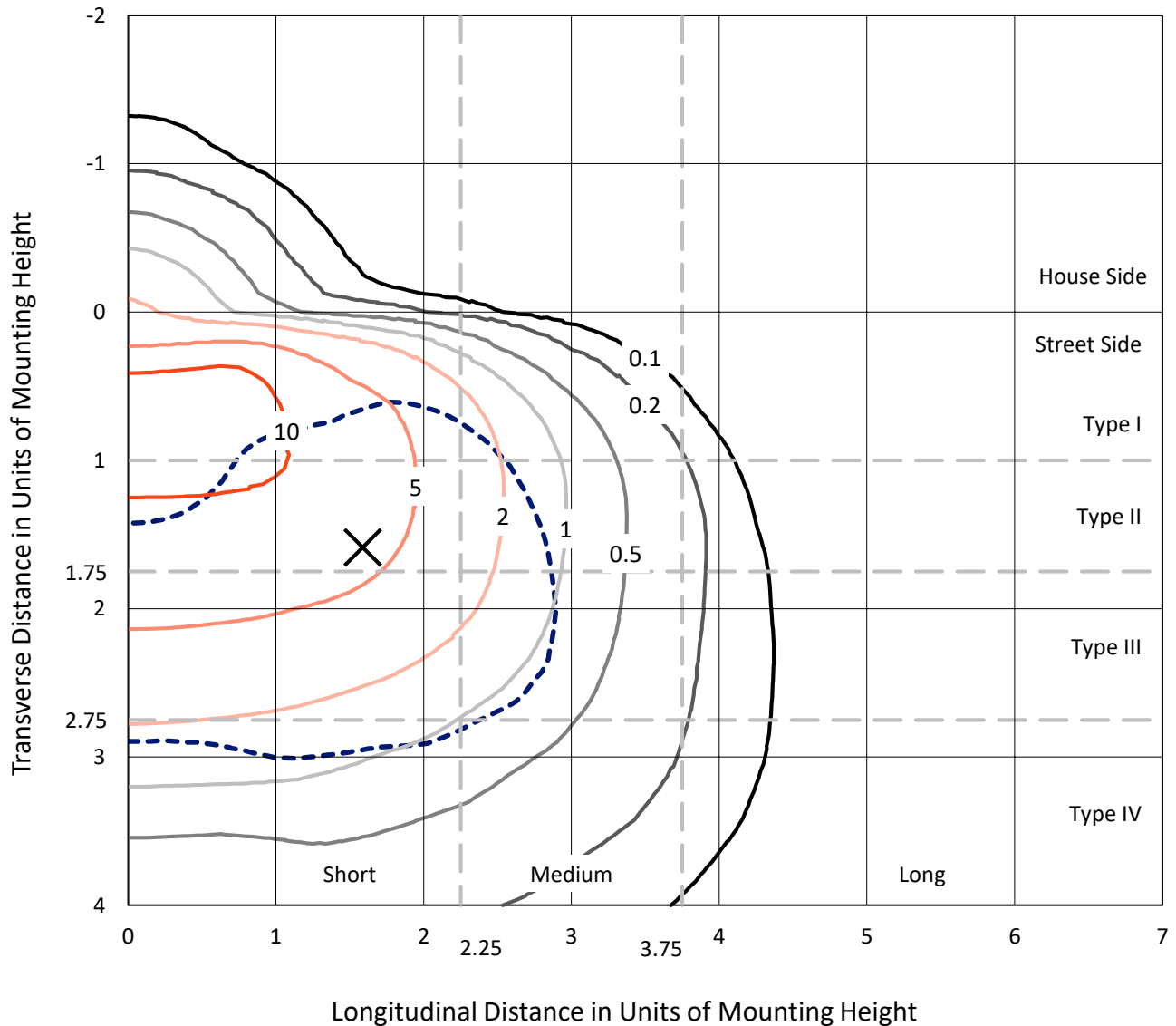


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

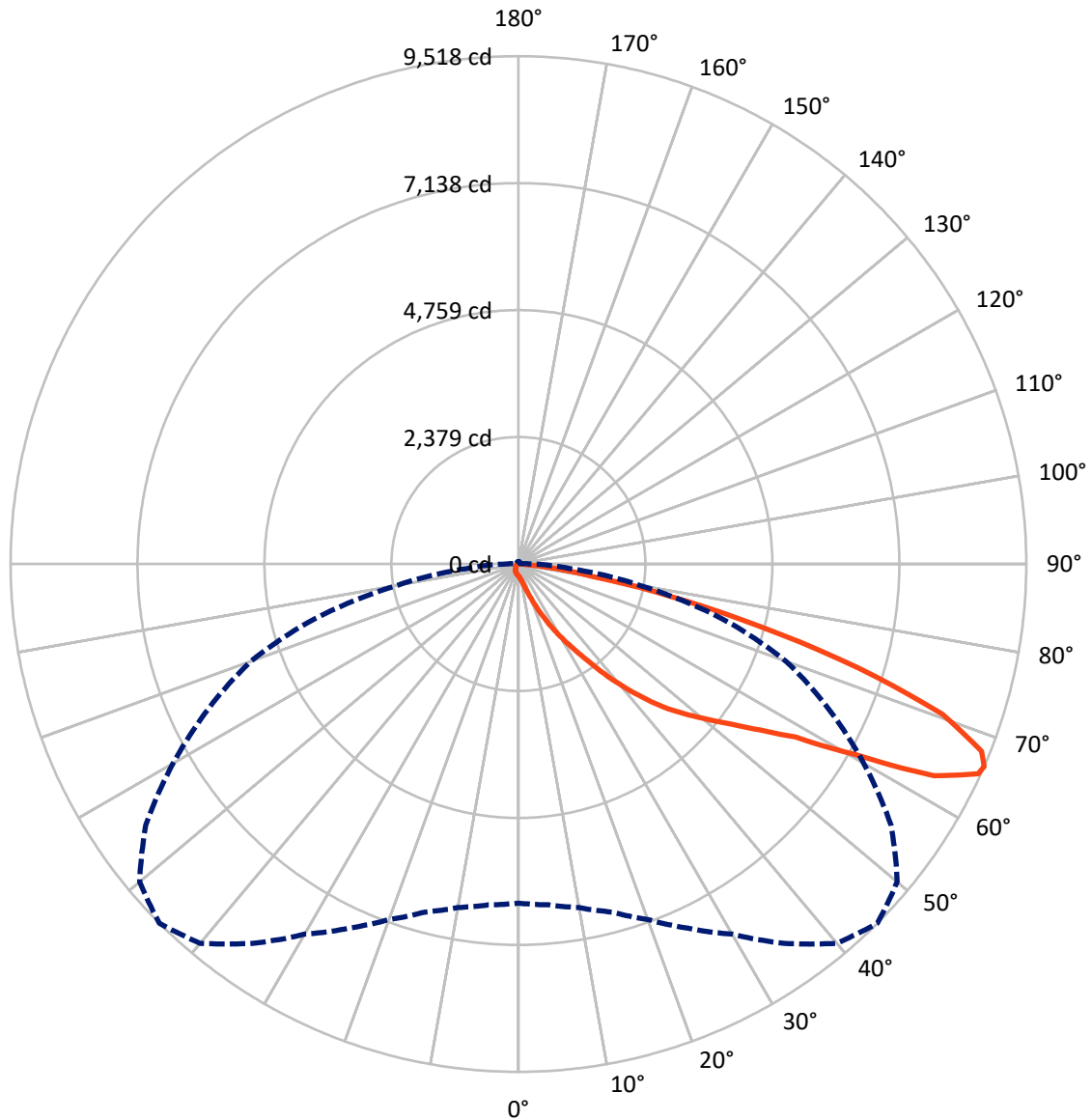


Based on 10 foot mounting height. Maximum calculated value = 14.3 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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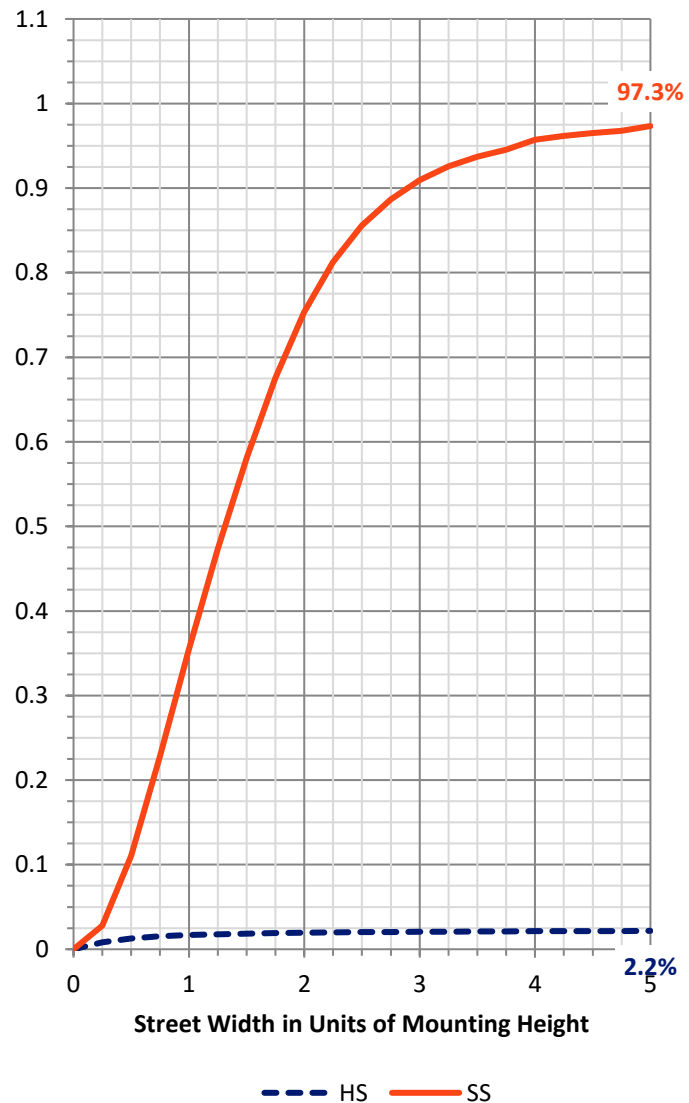
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	203.9	0.0	203.9
	% Fixture	2.3	0.0	2.3
<b>Street Side</b>	Lumens	8791.7	0.0	8791.7
	% Fixture	97.7	0.0	97.7
<b>Total</b>	Lumens	8995.6	0.0	8995.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.6	0.3
10°-20°	91.7	1.0
20°-30°	268.8	3.0
30°-40°	627.8	7.0
40°-50°	1179.2	13.1
50°-60°	1954.1	21.7
60°-70°	3102.2	34.5
70°-80°	1604.3	17.8
80°-90°	144.9	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°	8995.6	100.0
0°-180°	8995.6	100.0



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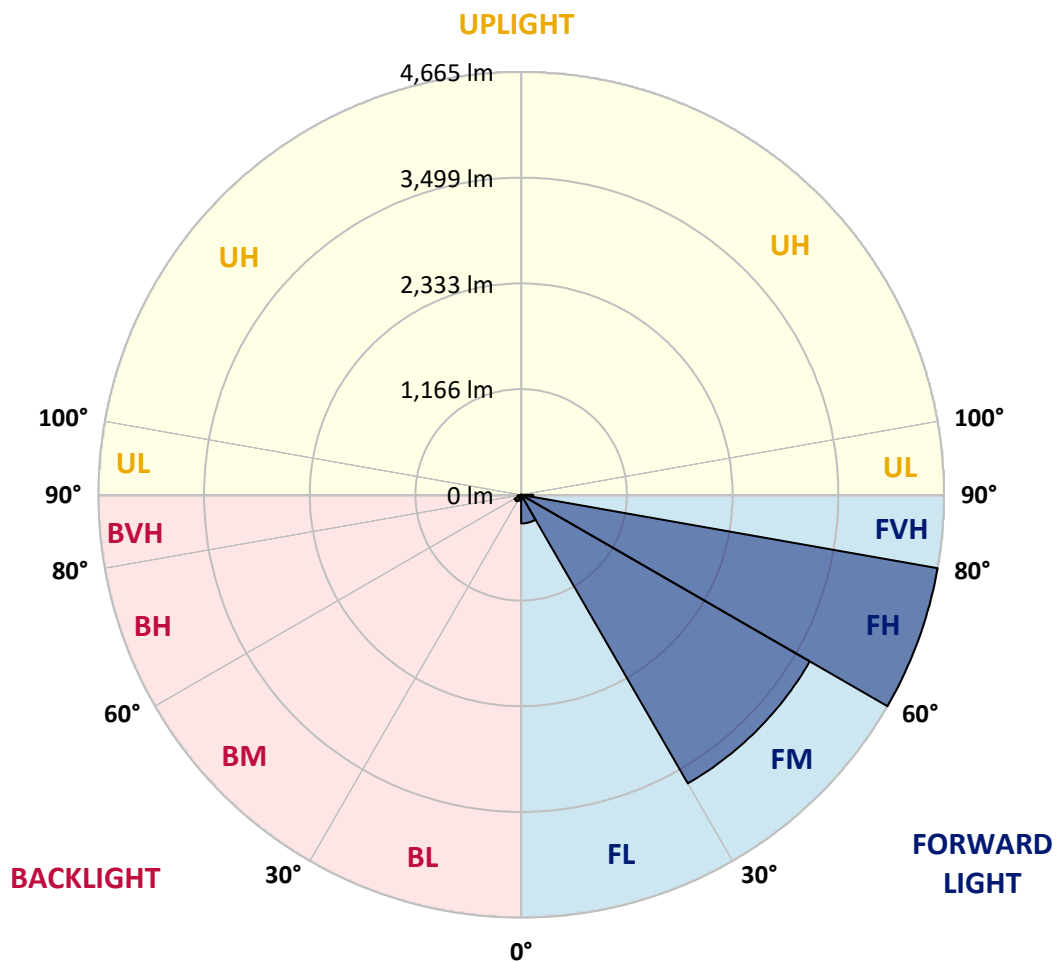
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	316.5	3.5			
FM	(30°-60°)	3676.5	40.9			
FH	(60°-80°)	4665.2	51.9			G2/5000
FVH	(80°-90°)	133.4	1.5			G2/225
BL	(0°-30°)	66.6	0.7	B0/110		
BM	(30°-60°)	84.6	0.9	B0/220		
BH	(60°-80°)	41.3	0.5	B0/110		G0/110
BVH	(80°-90°)	11.5	0.1			G1/100
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°	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8
2.5°	243.4	243.4	243.4	243.4	241.9	240.3	238.8	237.2	235.6	235.6	234.1
5°	276.0	277.5	276.0	274.4	271.4	269.8	265.1	262.0	257.4	255.8	251.2
7.5°	320.9	319.4	320.9	316.3	310.0	308.6	302.3	294.6	288.4	279.1	272.8
10°	386.0	384.5	386.0	376.7	367.4	359.7	348.8	339.5	325.6	314.7	302.3
12.5°	490.0	490.0	486.8	474.4	462.0	444.9	427.9	407.7	383.0	361.2	341.1
15°	649.6	641.9	627.9	620.2	598.4	572.1	553.5	513.2	477.5	443.4	403.1
17.5°	841.9	826.3	815.5	798.4	770.5	736.5	705.4	646.5	610.9	555.1	497.7
20°	1062.1	1043.4	1040.3	1014.0	984.5	947.3	902.3	832.6	772.1	702.3	621.7
22.5°	1286.8	1290.0	1277.5	1258.9	1229.5	1186.1	1116.3	1052.8	978.3	890.0	786.1
25°	1538.0	1536.5	1525.6	1503.9	1482.1	1427.9	1372.1	1311.6	1223.3	1110.1	986.1
27.5°	1773.7	1772.1	1745.8	1747.3	1705.4	1685.3	1631.0	1565.9	1458.9	1364.4	1229.5
30°	2020.2	2004.7	1987.6	1975.2	1945.8	1910.1	1882.2	1804.7	1724.0	1612.4	1502.3
32.5°	2269.8	2252.8	2257.4	2241.9	2218.6	2183.0	2141.1	2077.5	1990.7	1882.2	1779.8
35°	2575.2	2567.5	2555.1	2559.7	2555.1	2528.7	2493.0	2409.3	2314.7	2210.9	2105.4
37.5°	2801.6	2793.8	2801.6	2834.2	2841.9	2858.9	2832.6	2790.7	2722.5	2609.3	2499.3
40°	3010.9	3012.4	3048.1	3088.4	3116.3	3172.1	3181.4	3164.4	3110.1	3006.3	2862.1
42.5°	3198.4	3221.7	3254.3	3321.0	3381.4	3460.5	3519.4	3528.7	3488.4	3420.2	3274.4
45°	3407.7	3427.9	3479.1	3558.2	3641.9	3739.6	3834.2	3883.7	3880.7	3832.6	3676.0
47.5°	3641.9	3668.2	3724.0	3789.1	3900.8	4010.9	4133.3	4221.7	4258.9	4192.3	4040.3
50°	3925.6	3936.5	3984.5	4068.2	4170.5	4297.7	4431.0	4559.7	4632.6	4570.5	4414.0
52.5°	4262.1	4265.1	4310.1	4387.7	4469.8	4609.3	4739.6	4917.9	5012.4	4978.4	4790.7
55°	4724.0	4714.7	4745.8	4812.4	4879.1	5014.0	5144.2	5345.8	5483.8	5486.8	5286.8
57.5°	5355.1	5333.3	5353.5	5406.3	5480.7	5606.3	5770.5	5948.9	6133.3	6121.0	5956.6
60°	6234.2	6226.4	6263.6	6351.9	6479.1	6609.3	6795.4	7035.7	7198.5	7254.3	7082.2
62.5°	6818.6	6840.3	6925.6	7062.1	7307.0	7576.8	7922.6	8290.0	8600.1	8739.6	8502.4
65°	6567.5	6603.1	6736.5	6938.0	7262.1	7666.7	8125.6	8728.7	9263.6	9476.1	9229.5
66°	6355.1	6412.4	6538.0	6751.9	7090.0	7531.9	8010.9	8677.5	9279.1	9517.9	9266.8
67.5°	5987.7	6027.9	6170.5	6407.8	6770.6	7207.8	7725.6	8429.5	9108.6	9361.3	9111.7
70°	5238.8	5254.3	5370.5	5572.1	5852.8	6300.8	6770.6	7448.1	8072.9	8428.0	8155.1
72.5°	3899.3	3921.0	4113.2	4480.7	4845.0	5099.3	5376.8	5919.4	6322.6	6654.3	6601.6
75°	1876.0	1885.3	2014.0	2550.4	3260.5	3564.4	3821.7	4241.9	4395.4	4672.9	4631.0
77.5°	1189.1	1209.3	1293.0	1423.3	1826.3	2187.6	2390.7	2631.0	2676.0	2910.1	2773.7
80°	327.2	379.8	463.5	682.1	1170.5	1395.4	1486.8	1477.5	1486.8	1415.5	1369.0
82.5°	66.7	65.1	79.1	122.5	516.3	812.4	877.5	747.3	742.6	714.7	738.0
85°	17.0	15.5	18.6	38.8	88.4	240.3	302.3	169.0	128.7	122.5	108.6
87.5°	4.7	4.7	4.7	7.7	9.3	12.4	17.0	12.4	9.3	9.3	9.3
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°	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8
2.5°	232.6	232.6	231.0	229.5	229.5	227.9	226.3	224.8	223.3	221.7	220.2
5°	246.5	243.4	238.8	235.6	232.6	227.9	224.8	221.7	218.6	217.0	214.0
7.5°	265.1	257.4	251.2	241.9	235.6	229.5	223.3	218.6	214.0	210.9	207.7
10°	288.4	276.0	263.5	251.2	240.3	231.0	221.7	214.0	209.3	204.7	201.6
12.5°	317.9	299.3	282.1	263.5	246.5	232.6	220.2	210.9	204.7	200.0	195.4
15°	365.9	336.5	307.0	279.1	257.4	235.6	218.6	207.7	200.0	195.4	190.7
17.5°	441.9	389.1	342.6	303.9	268.2	240.3	218.6	204.7	195.4	189.1	184.5
20°	551.9	465.1	390.7	334.9	288.4	248.1	218.6	200.0	190.7	183.0	178.3
22.5°	682.1	573.7	471.4	378.3	311.6	258.9	218.6	195.4	184.5	178.3	172.1
25°	872.8	728.7	589.1	458.9	350.4	276.0	223.3	192.3	179.8	172.1	165.9
27.5°	1096.1	922.5	748.8	565.9	409.3	300.7	229.5	189.1	175.2	165.9	159.7
30°	1350.4	1158.1	945.8	708.6	486.8	333.3	240.3	187.6	169.0	159.7	151.9
32.5°	1626.3	1423.3	1190.7	891.4	601.6	383.0	254.2	186.0	162.8	151.9	142.6
35°	1955.1	1765.9	1482.1	1148.8	779.8	468.2	285.3	189.1	156.6	144.2	133.3
37.5°	2314.7	2113.2	1812.4	1421.7	956.6	564.4	308.6	184.5	145.8	133.3	122.5
40°	2677.5	2446.5	2141.1	1708.6	1181.4	682.1	338.0	179.8	134.9	122.5	111.6
42.5°	3031.0	2787.6	2455.8	2003.1	1418.6	821.7	375.2	179.8	127.2	111.6	100.7
45°	3401.6	3108.6	2745.8	2285.3	1654.2	981.4	427.9	178.3	117.9	102.3	90.0
47.5°	3751.9	3404.7	2987.6	2533.3	1907.0	1156.6	488.4	179.8	110.0	93.0	82.1
50°	4083.7	3685.3	3235.6	2755.1	2148.9	1345.8	562.8	181.4	102.3	85.3	74.4
52.5°	4446.5	4004.7	3502.3	2983.0	2387.6	1536.5	649.6	184.5	94.6	77.5	68.2
55°	4896.1	4406.3	3831.0	3262.1	2640.3	1728.7	733.3	187.6	86.8	71.3	62.0
57.5°	5544.2	4986.1	4364.4	3680.7	2975.2	1947.3	820.2	195.4	80.7	66.7	57.4
60°	6598.5	5933.3	5215.6	4409.3	3476.0	2243.5	945.8	212.4	72.8	60.5	54.2
62.5°	7866.7	7066.7	6153.5	5175.2	3947.3	2443.5	1029.5	231.0	66.7	55.8	51.2
65°	8505.4	7497.7	6445.0	5389.1	4007.7	2384.5	995.4	224.8	58.9	49.6	43.4
66°	8524.1	7474.5	6404.7	5342.6	3945.8	2313.2	962.8	221.7	57.4	48.1	40.3
67.5°	8347.3	7274.5	6190.7	5131.8	3762.8	2175.2	903.9	210.9	52.7	43.4	35.6
70°	7474.5	6429.5	5435.7	4457.4	3237.2	1832.6	758.1	186.0	46.5	38.8	32.6
72.5°	5958.2	5107.0	4269.8	3507.0	2516.3	1375.2	598.4	151.9	40.3	34.1	27.9
75°	4161.2	3462.1	2824.9	2280.7	1581.4	823.3	387.6	107.0	34.1	27.9	23.3
77.5°	2322.5	1841.9	1392.3	1060.5	631.0	257.4	128.7	54.2	29.5	21.7	18.6
80°	1181.4	876.0	666.7	491.4	291.4	133.3	65.1	35.6	23.3	17.0	15.5
82.5°	686.8	503.9	401.6	317.9	200.0	100.7	52.7	26.3	15.5	12.4	14.0
85°	153.5	203.1	172.1	145.8	107.0	63.5	37.2	17.0	10.9	10.9	12.4
87.5°	12.4	17.0	15.5	20.2	21.7	20.2	15.5	9.3	7.7	9.3	9.3
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8
2.5°	218.6	217.0	217.0	215.5	214.0	214.0	214.0	212.4	214.0	214.0	214.0
5°	212.4	210.9	209.3	207.7	206.2	204.7	204.7	203.1	203.1	203.1	204.7
7.5°	206.2	203.1	201.6	198.4	196.9	195.4	195.4	193.8	193.8	193.8	193.8
10°	198.4	195.4	192.3	190.7	189.1	186.0	186.0	184.5	183.0	183.0	183.0
12.5°	192.3	189.1	186.0	183.0	179.8	178.3	176.7	175.2	173.7	173.7	173.7
15°	186.0	181.4	178.3	175.2	172.1	169.0	167.4	165.9	164.4	162.8	162.8
17.5°	179.8	175.2	170.5	167.4	164.4	161.2	159.7	155.1	155.1	153.5	153.5
20°	172.1	167.4	162.8	159.7	156.6	153.5	150.4	147.3	144.2	142.6	142.6
22.5°	165.9	161.2	156.6	151.9	147.3	142.6	139.5	136.5	134.9	133.3	131.8
25°	159.7	153.5	147.3	142.6	138.0	133.3	130.2	127.2	124.0	122.5	122.5
27.5°	151.9	145.8	139.5	133.3	128.7	124.0	120.9	116.3	114.7	113.2	111.6
30°	144.2	136.5	130.2	124.0	119.3	113.2	110.0	107.0	103.9	103.9	102.3
32.5°	134.9	127.2	120.9	114.7	108.6	103.9	100.7	97.7	96.1	93.0	93.0
35°	125.6	117.9	110.0	103.9	99.3	94.6	91.4	88.4	85.3	83.7	83.7
37.5°	114.7	107.0	100.7	94.6	90.0	85.3	82.1	79.1	77.5	76.0	74.4
40°	102.3	94.6	90.0	85.3	80.7	77.5	72.8	69.8	68.2	66.7	65.1
42.5°	91.4	83.7	80.7	77.5	72.8	69.8	65.1	62.0	58.9	57.4	55.8
45°	82.1	76.0	72.8	69.8	65.1	60.5	57.4	54.2	51.2	49.6	49.6
47.5°	72.8	68.2	65.1	62.0	57.4	54.2	49.6	48.1	44.9	44.9	44.9
50°	66.7	62.0	58.9	55.8	52.7	48.1	44.9	43.4	41.9	41.9	43.4
52.5°	62.0	57.4	54.2	51.2	48.1	44.9	41.9	40.3	40.3	41.9	43.4
55°	57.4	52.7	49.6	46.5	43.4	41.9	38.8	38.8	40.3	41.9	43.4
57.5°	54.2	48.1	44.9	43.4	40.3	38.8	38.8	38.8	40.3	41.9	44.9
60°	49.6	43.4	40.3	40.3	37.2	37.2	37.2	38.8	40.3	43.4	44.9
62.5°	43.4	38.8	37.2	37.2	35.6	35.6	37.2	38.8	41.9	43.4	44.9
65°	37.2	34.1	34.1	34.1	34.1	35.6	37.2	38.8	40.3	43.4	44.9
66°	34.1	32.6	32.6	34.1	34.1	35.6	37.2	38.8	40.3	41.9	43.4
67.5°	32.6	31.0	31.0	32.6	34.1	34.1	35.6	38.8	40.3	41.9	41.9
70°	27.9	27.9	27.9	31.0	32.6	34.1	35.6	37.2	38.8	40.3	41.9
72.5°	24.8	24.8	26.3	27.9	31.0	32.6	34.1	35.6	38.8	40.3	40.3
75°	21.7	21.7	24.8	26.3	29.5	31.0	34.1	35.6	37.2	38.8	38.8
77.5°	18.6	20.2	23.3	26.3	27.9	31.0	32.6	34.1	35.6	37.2	37.2
80°	17.0	20.2	23.3	24.8	26.3	27.9	29.5	32.6	34.1	35.6	37.2
82.5°	17.0	18.6	21.7	23.3	24.8	27.9	29.5	31.0	32.6	34.1	35.6
85°	14.0	17.0	18.6	21.7	23.3	26.3	27.9	27.9	29.5	31.0	32.6
87.5°	10.9	12.4	12.4	15.5	17.0	20.2	23.3	23.3	24.8	26.3	27.9
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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CATALOG NUMBER: ICM-E05-LED-E1-T4-HSS

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	224.8	224.8	224.8	224.8
2.5°	214.0	215.5	215.5	215.5
5°	204.7	204.7	204.7	204.7
7.5°	193.8	193.8	193.8	193.8
10°	183.0	183.0	184.5	183.0
12.5°	173.7	172.1	172.1	172.1
15°	162.8	162.8	161.2	162.8
17.5°	151.9	151.9	150.4	150.4
20°	141.1	141.1	141.1	141.1
22.5°	131.8	130.2	130.2	130.2
25°	120.9	120.9	120.9	120.9
27.5°	111.6	111.6	111.6	111.6
30°	102.3	102.3	100.7	100.7
32.5°	93.0	93.0	93.0	93.0
35°	83.7	83.7	82.1	82.1
37.5°	72.8	72.8	72.8	72.8
40°	63.5	63.5	63.5	63.5
42.5°	55.8	55.8	54.2	54.2
45°	48.1	48.1	48.1	48.1
47.5°	44.9	44.9	44.9	44.9
50°	43.4	44.9	44.9	44.9
52.5°	44.9	44.9	44.9	44.9
55°	44.9	46.5	46.5	46.5
57.5°	44.9	46.5	46.5	48.1
60°	46.5	48.1	48.1	48.1
62.5°	46.5	48.1	48.1	48.1
65°	44.9	46.5	46.5	46.5
66°	44.9	44.9	44.9	46.5
67.5°	43.4	44.9	44.9	44.9
70°	41.9	43.4	43.4	44.9
72.5°	41.9	43.4	43.4	43.4
75°	40.3	40.3	41.9	41.9
77.5°	38.8	38.8	40.3	40.3
80°	37.2	38.8	38.8	38.8
82.5°	35.6	37.2	37.2	37.2
85°	32.6	34.1	34.1	34.1
87.5°	27.9	27.9	29.5	29.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)