

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: P181519

Luminaire Tested: **ICM-E01-LED-E1-T4-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181519
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-E01-LED-E1-T4-HSS
Description: ICON SITE MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1799.1 lumens
Efficiency: N/A
Efficacy: 72.8 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

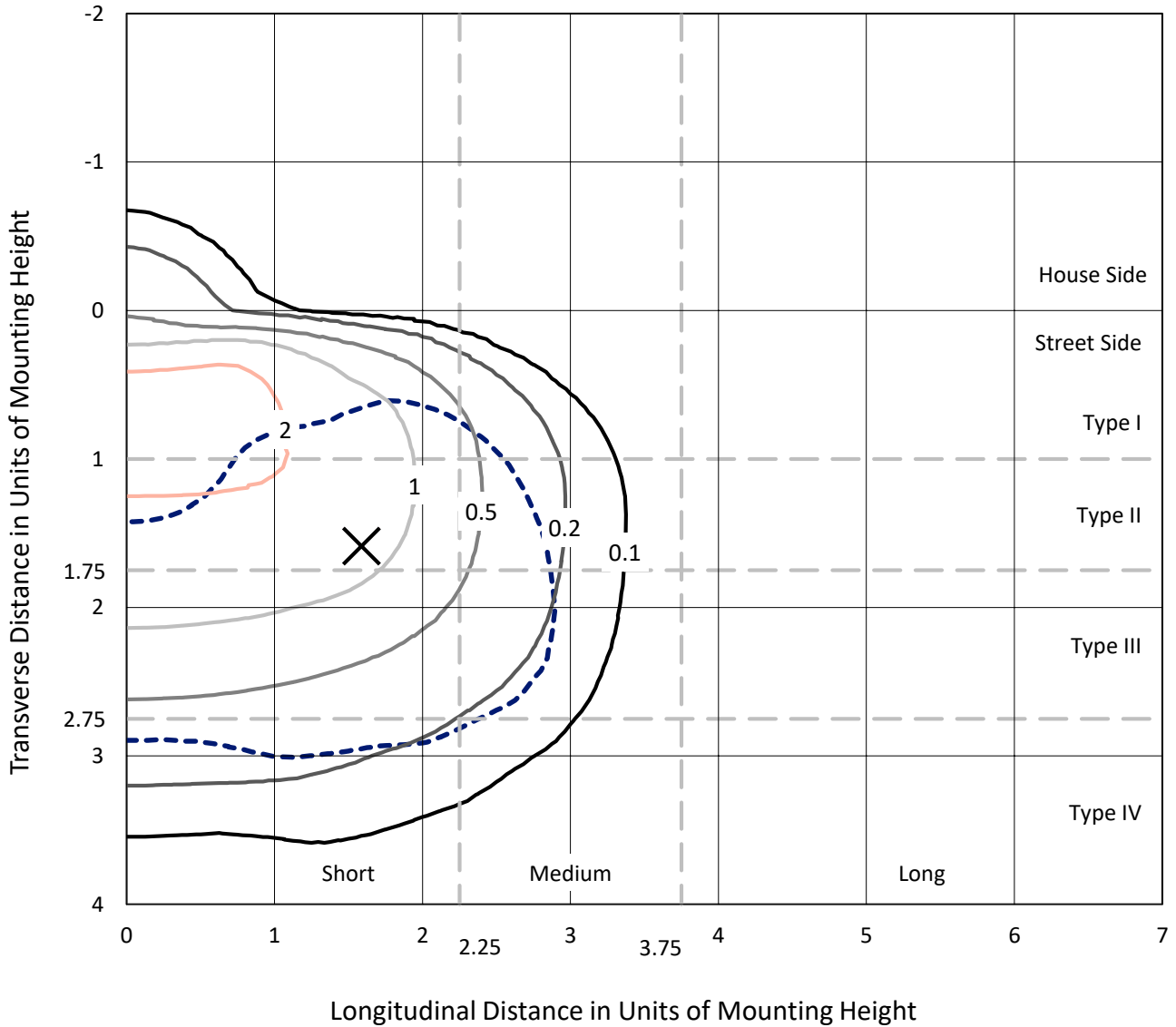


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

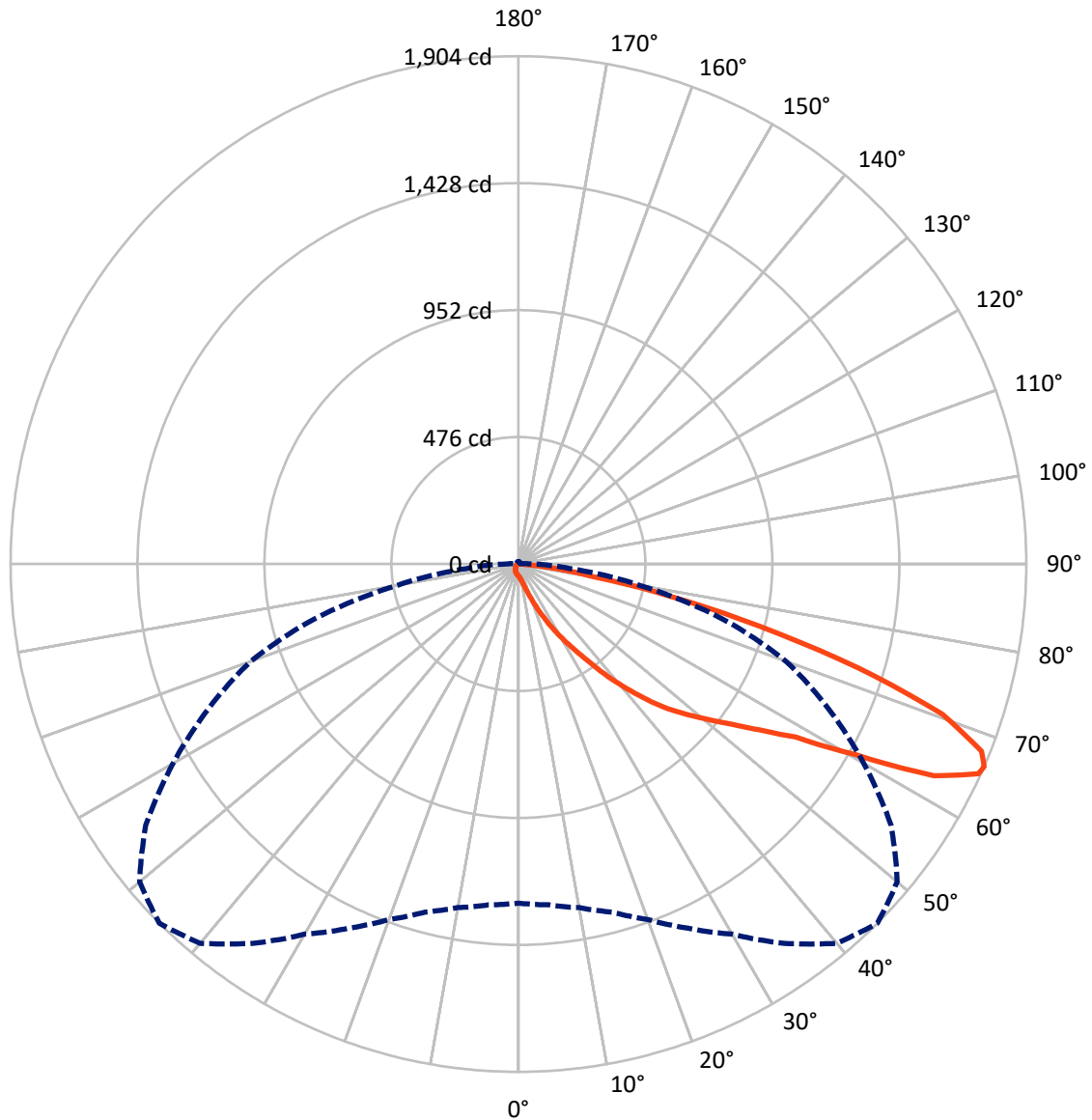


Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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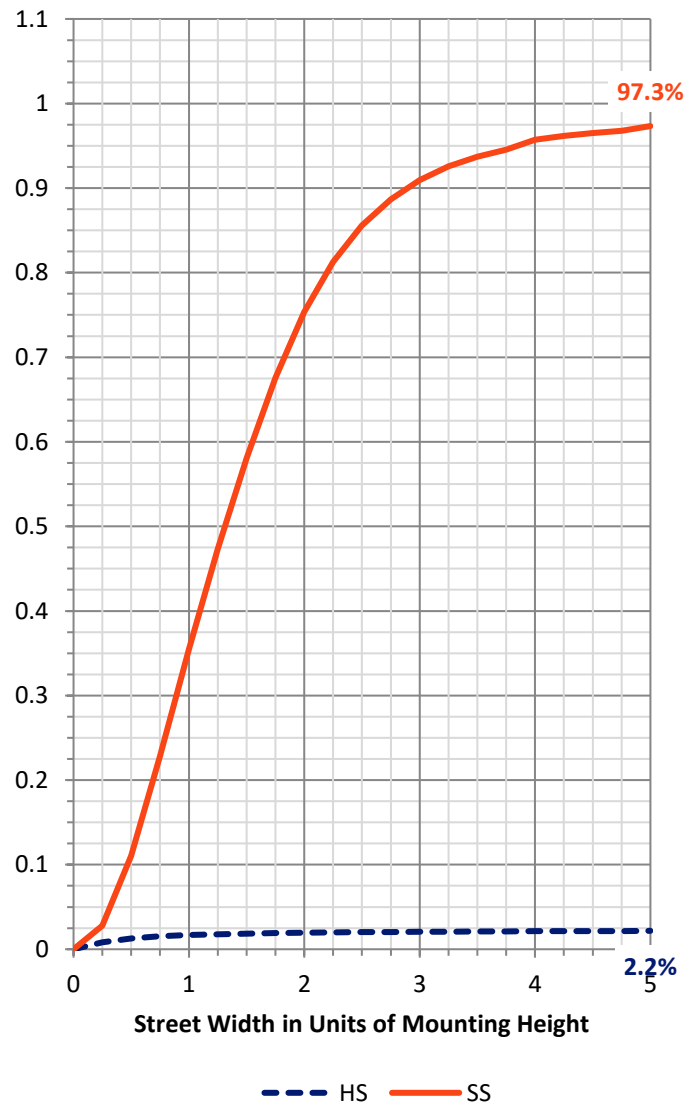
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	40.8	0.0	40.8
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	1758.3	0.0	1758.3
	% Fixture	97.7	0.0	97.7
Total	Lumens	1799.1	0.0	1799.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	0.3
10°-20°	18.3	1.0
20°-30°	53.8	3.0
30°-40°	125.6	7.0
40°-50°	235.8	13.1
50°-60°	390.8	21.7
60°-70°	620.4	34.5
70°-80°	320.9	17.8
80°-90°	29.0	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°	1799.1	100.0
0°-180°	1799.1	100.0



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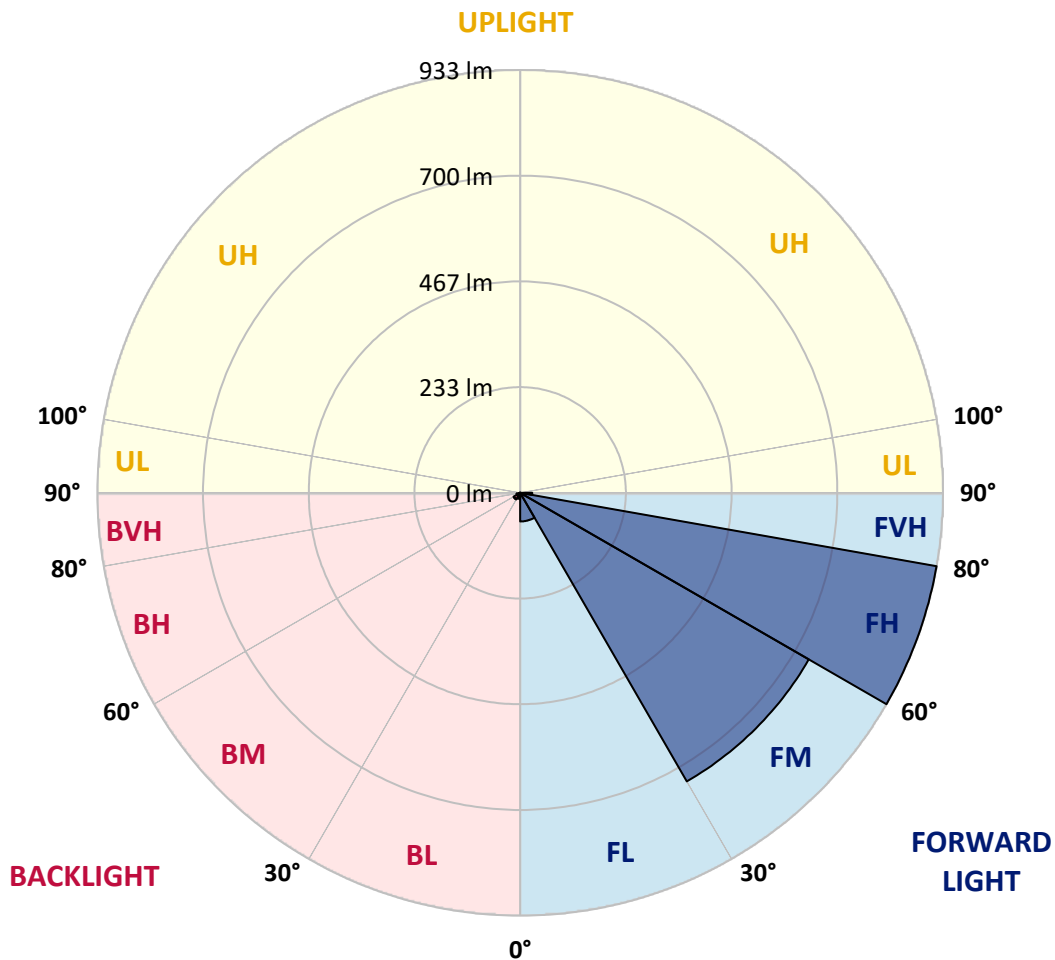
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	63.3	3.5			
FM	(30°-60°)	735.3	40.9			
FH	(60°-80°)	933.0	51.9			G1/1800
FVH	(80°-90°)	26.7	1.5			G1/100
BL	(0°-30°)	13.3	0.7	B0/110		
BM	(30°-60°)	16.9	0.9	B0/220		
BH	(60°-80°)	8.3	0.5	B0/110		G0/110
BVH	(80°-90°)	2.3	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°	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
2.5°	48.7	48.7	48.7	48.7	48.4	48.1	47.7	47.4	47.2	47.2	46.8
5°	55.2	55.5	55.2	54.9	54.2	54.0	53.0	52.4	51.4	51.2	50.2
7.5°	64.2	63.9	64.2	63.3	62.0	61.7	60.5	58.9	57.7	55.8	54.6
10°	77.2	76.9	77.2	75.3	73.5	71.9	69.8	67.9	65.1	63.0	60.5
12.5°	98.0	98.0	97.4	94.9	92.4	89.0	85.6	81.6	76.6	72.3	68.2
15°	130.0	128.4	125.6	124.0	119.7	114.4	110.7	102.6	95.5	88.7	80.7
17.5°	168.4	165.3	163.1	159.7	154.1	147.3	141.1	129.3	122.1	111.0	99.5
20°	212.4	208.7	208.1	202.8	196.9	189.5	180.5	166.5	154.4	140.5	124.4
22.5°	257.4	258.0	255.5	251.8	245.9	237.2	223.3	210.5	195.6	178.0	157.2
25°	307.6	307.3	305.1	300.7	296.5	285.6	274.4	262.3	244.7	222.0	197.2
27.5°	354.7	354.4	349.1	349.5	341.1	337.0	326.2	313.2	291.8	272.8	245.9
30°	404.0	400.9	397.5	395.1	389.1	382.0	376.5	360.9	344.8	322.5	300.5
32.5°	454.0	450.5	451.4	448.4	443.7	436.6	428.2	415.5	398.1	376.5	356.0
35°	515.1	513.5	511.0	511.9	511.0	505.8	498.6	481.9	463.0	442.1	421.1
37.5°	560.3	558.8	560.3	566.8	568.4	571.8	566.5	558.1	544.5	521.9	499.8
40°	602.1	602.5	609.6	617.7	623.3	634.4	636.3	632.8	622.1	601.2	572.4
42.5°	639.7	644.4	650.9	664.2	676.3	692.1	703.9	705.8	697.7	684.0	654.9
45°	681.6	685.6	695.8	711.6	728.4	747.9	766.8	776.7	776.1	766.5	735.2
47.5°	728.4	733.7	744.8	757.9	780.2	802.1	826.7	844.4	851.8	838.4	808.1
50°	785.1	787.3	796.9	813.7	834.1	859.5	886.2	911.9	926.5	914.1	882.8
52.5°	852.4	853.0	862.1	877.5	894.0	921.9	947.9	983.5	1002.5	995.6	958.1
55°	944.8	943.0	949.1	962.5	975.8	1002.8	1028.8	1069.1	1096.8	1097.4	1057.4
57.5°	1071.0	1066.7	1070.7	1081.2	1096.1	1121.2	1154.1	1189.8	1226.7	1224.2	1191.4
60°	1246.8	1245.3	1252.8	1270.4	1295.8	1321.9	1359.1	1407.2	1439.7	1450.9	1416.5
62.5°	1363.7	1368.1	1385.1	1412.4	1461.4	1515.4	1584.5	1658.0	1720.0	1747.9	1700.5
65°	1313.5	1320.7	1347.3	1387.6	1452.4	1533.3	1625.1	1745.8	1852.8	1895.2	1845.9
66°	1271.0	1282.5	1307.6	1350.4	1418.0	1506.3	1602.1	1735.5	1855.8	1903.5	1853.3
67.5°	1197.5	1205.6	1234.1	1281.6	1354.1	1441.6	1545.1	1685.9	1821.7	1872.3	1822.3
70°	1047.7	1050.9	1074.1	1114.4	1170.5	1260.2	1354.1	1489.6	1614.6	1685.6	1631.0
72.5°	779.8	784.2	822.6	896.1	969.0	1019.8	1075.4	1183.9	1264.5	1330.9	1320.3
75°	375.2	377.0	402.8	510.0	652.1	712.8	764.4	848.4	879.1	934.6	926.2
77.5°	237.9	241.9	258.6	284.7	365.3	437.5	478.1	526.2	535.2	582.1	554.7
80°	65.4	76.0	92.7	136.5	234.1	279.1	297.4	295.5	297.4	283.1	273.8
82.5°	13.3	13.0	15.8	24.5	103.3	162.5	175.5	149.5	148.6	143.0	147.6
85°	3.4	3.1	3.7	7.7	17.7	48.1	60.5	33.8	25.8	24.5	21.7
87.5°	0.9	0.9	0.9	1.6	1.9	2.5	3.4	2.5	1.9	1.9	1.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
2.5°	46.5	46.5	46.2	45.9	45.9	45.6	45.3	44.9	44.7	44.4	44.0
5°	49.3	48.7	47.7	47.2	46.5	45.6	44.9	44.4	43.7	43.4	42.8
7.5°	53.0	51.4	50.2	48.4	47.2	45.9	44.7	43.7	42.8	42.1	41.6
10°	57.7	55.2	52.7	50.2	48.1	46.2	44.4	42.8	41.9	40.9	40.3
12.5°	63.5	59.8	56.5	52.7	49.3	46.5	44.0	42.1	40.9	40.0	39.1
15°	73.2	67.3	61.4	55.8	51.4	47.2	43.7	41.6	40.0	39.1	38.1
17.5°	88.4	77.9	68.6	60.7	53.7	48.1	43.7	40.9	39.1	37.9	36.9
20°	110.4	93.0	78.1	67.0	57.7	49.6	43.7	40.0	38.1	36.6	35.6
22.5°	136.5	114.7	94.2	75.6	62.3	51.8	43.7	39.1	36.9	35.6	34.4
25°	174.6	145.8	117.9	91.8	70.0	55.2	44.7	38.4	36.0	34.4	33.2
27.5°	219.3	184.5	149.8	113.2	81.9	60.2	45.9	37.9	35.1	33.2	31.9
30°	270.0	231.6	189.1	141.7	97.4	66.7	48.1	37.5	33.8	31.9	30.4
32.5°	325.3	284.7	238.1	178.3	120.3	76.6	50.9	37.2	32.6	30.4	28.6
35°	391.0	353.2	296.5	229.8	156.0	93.7	57.0	37.9	31.3	28.8	26.7
37.5°	463.0	422.6	362.5	284.4	191.4	112.8	61.7	36.9	29.1	26.7	24.5
40°	535.5	489.3	428.2	341.7	236.3	136.5	67.6	36.0	27.0	24.5	22.3
42.5°	606.2	557.5	491.2	400.7	283.7	164.4	75.1	36.0	25.4	22.3	20.2
45°	680.3	621.7	549.1	457.0	330.9	196.3	85.6	35.6	23.5	20.5	18.0
47.5°	750.4	680.9	597.5	506.7	381.4	231.4	97.7	36.0	22.0	18.6	16.5
50°	816.7	737.0	647.2	551.0	429.8	269.1	112.6	36.3	20.5	17.0	14.9
52.5°	889.3	800.9	700.5	596.6	477.5	307.3	130.0	36.9	18.9	15.5	13.7
55°	979.3	881.2	766.2	652.4	528.1	345.8	146.7	37.5	17.4	14.2	12.4
57.5°	1108.8	997.2	872.8	736.1	595.1	389.5	164.0	39.1	16.1	13.3	11.4
60°	1319.7	1186.7	1043.1	881.9	695.2	448.7	189.1	42.5	14.6	12.1	10.9
62.5°	1573.3	1413.3	1230.7	1035.1	789.5	488.7	205.9	46.2	13.3	11.2	10.2
65°	1701.1	1499.5	1289.0	1077.9	801.6	476.9	199.1	44.9	11.8	10.0	8.7
66°	1704.8	1494.9	1280.9	1068.6	789.1	462.6	192.6	44.4	11.4	9.6	8.1
67.5°	1669.5	1454.9	1238.1	1026.3	752.6	435.1	180.7	42.1	10.5	8.7	7.2
70°	1494.9	1285.9	1087.2	891.4	647.4	366.5	151.6	37.2	9.3	7.7	6.5
72.5°	1191.6	1021.4	854.0	701.4	503.3	275.1	119.7	30.4	8.1	6.8	5.6
75°	832.3	692.4	564.9	456.1	316.3	164.7	77.5	21.4	6.8	5.6	4.7
77.5°	464.5	368.4	278.4	212.1	126.2	51.4	25.8	10.9	5.9	4.4	3.7
80°	236.3	175.2	133.3	98.3	58.3	26.7	13.0	7.2	4.7	3.4	3.1
82.5°	137.4	100.7	80.3	63.5	40.0	20.2	10.5	5.3	3.1	2.5	2.8
85°	30.7	40.7	34.4	29.1	21.4	12.7	7.4	3.4	2.1	2.1	2.5
87.5°	2.5	3.4	3.1	4.0	4.4	4.0	3.1	1.9	1.6	1.9	1.9
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°	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
2.5°	43.7	43.4	43.4	43.1	42.8	42.8	42.8	42.5	42.8	42.8	42.8
5°	42.5	42.1	41.9	41.6	41.2	40.9	40.9	40.7	40.7	40.7	40.9
7.5°	41.2	40.7	40.3	39.7	39.3	39.1	39.1	38.8	38.8	38.8	38.8
10°	39.7	39.1	38.4	38.1	37.9	37.2	37.2	36.9	36.6	36.6	36.6
12.5°	38.4	37.9	37.2	36.6	36.0	35.6	35.3	35.1	34.7	34.7	34.7
15°	37.2	36.3	35.6	35.1	34.4	33.8	33.5	33.2	32.8	32.6	32.6
17.5°	36.0	35.1	34.1	33.5	32.8	32.3	31.9	31.0	31.0	30.7	30.7
20°	34.4	33.5	32.6	31.9	31.3	30.7	30.0	29.5	28.8	28.6	28.6
22.5°	33.2	32.3	31.3	30.4	29.5	28.6	27.9	27.3	27.0	26.7	26.3
25°	31.9	30.7	29.5	28.6	27.6	26.7	26.0	25.4	24.8	24.5	24.5
27.5°	30.4	29.1	27.9	26.7	25.8	24.8	24.2	23.3	23.0	22.6	22.3
30°	28.8	27.3	26.0	24.8	23.9	22.6	22.0	21.4	20.7	20.7	20.5
32.5°	27.0	25.4	24.2	23.0	21.7	20.7	20.2	19.5	19.3	18.6	18.6
35°	25.1	23.5	22.0	20.7	19.8	18.9	18.3	17.7	17.0	16.7	16.7
37.5°	23.0	21.4	20.2	18.9	18.0	17.0	16.5	15.8	15.5	15.2	14.9
40°	20.5	18.9	18.0	17.0	16.1	15.5	14.6	14.0	13.7	13.3	13.0
42.5°	18.3	16.7	16.1	15.5	14.6	14.0	13.0	12.4	11.8	11.4	11.2
45°	16.5	15.2	14.6	14.0	13.0	12.1	11.4	10.9	10.2	10.0	10.0
47.5°	14.6	13.7	13.0	12.4	11.4	10.9	10.0	9.6	9.0	9.0	9.0
50°	13.3	12.4	11.8	11.2	10.5	9.6	9.0	8.7	8.4	8.4	8.7
52.5°	12.4	11.4	10.9	10.2	9.6	9.0	8.4	8.1	8.1	8.4	8.7
55°	11.4	10.5	10.0	9.3	8.7	8.4	7.7	7.7	8.1	8.4	8.7
57.5°	10.9	9.6	9.0	8.7	8.1	7.7	7.7	7.7	8.1	8.4	9.0
60°	10.0	8.7	8.1	8.1	7.4	7.4	7.4	7.7	8.1	8.7	9.0
62.5°	8.7	7.7	7.4	7.4	7.2	7.2	7.4	7.7	8.4	8.7	9.0
65°	7.4	6.8	6.8	6.8	6.8	7.2	7.4	7.7	8.1	8.7	9.0
66°	6.8	6.5	6.5	6.8	6.8	7.2	7.4	7.7	8.1	8.4	8.7
67.5°	6.5	6.2	6.2	6.5	6.8	6.8	7.2	7.7	8.1	8.4	8.4
70°	5.6	5.6	5.6	6.2	6.5	6.8	7.2	7.4	7.7	8.1	8.4
72.5°	4.9	4.9	5.3	5.6	6.2	6.5	6.8	7.2	7.7	8.1	8.1
75°	4.4	4.4	4.9	5.3	5.9	6.2	6.8	7.2	7.4	7.7	7.7
77.5°	3.7	4.0	4.7	5.3	5.6	6.2	6.5	6.8	7.2	7.4	7.4
80°	3.4	4.0	4.7	4.9	5.3	5.6	5.9	6.5	6.8	7.2	7.4
82.5°	3.4	3.7	4.4	4.7	4.9	5.6	5.9	6.2	6.5	6.8	7.2
85°	2.8	3.4	3.7	4.4	4.7	5.3	5.6	5.6	5.9	6.2	6.5
87.5°	2.1	2.5	2.5	3.1	3.4	4.0	4.7	4.7	4.9	5.3	5.6
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: ICM-E01-LED-E1-T4-HSS

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	44.9	44.9	44.9	44.9
2.5°	42.8	43.1	43.1	43.1
5°	40.9	40.9	40.9	40.9
7.5°	38.8	38.8	38.8	38.8
10°	36.6	36.6	36.9	36.6
12.5°	34.7	34.4	34.4	34.4
15°	32.6	32.6	32.3	32.6
17.5°	30.4	30.4	30.0	30.0
20°	28.2	28.2	28.2	28.2
22.5°	26.3	26.0	26.0	26.0
25°	24.2	24.2	24.2	24.2
27.5°	22.3	22.3	22.3	22.3
30°	20.5	20.5	20.2	20.2
32.5°	18.6	18.6	18.6	18.6
35°	16.7	16.7	16.5	16.5
37.5°	14.6	14.6	14.6	14.6
40°	12.7	12.7	12.7	12.7
42.5°	11.2	11.2	10.9	10.9
45°	9.6	9.6	9.6	9.6
47.5°	9.0	9.0	9.0	9.0
50°	8.7	9.0	9.0	9.0
52.5°	9.0	9.0	9.0	9.0
55°	9.0	9.3	9.3	9.3
57.5°	9.0	9.3	9.3	9.6
60°	9.3	9.6	9.6	9.6
62.5°	9.3	9.6	9.6	9.6
65°	9.0	9.3	9.3	9.3
66°	9.0	9.0	9.0	9.3
67.5°	8.7	9.0	9.0	9.0
70°	8.4	8.7	8.7	9.0
72.5°	8.4	8.7	8.7	8.7
75°	8.1	8.1	8.4	8.4
77.5°	7.7	7.7	8.1	8.1
80°	7.4	7.7	7.7	7.7
82.5°	7.2	7.4	7.4	7.4
85°	6.5	6.8	6.8	6.8
87.5°	5.6	5.6	5.9	5.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)