

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: P181528

Luminaire Tested: **ICM-E02-LED-E1-T4-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181528
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-E02-LED-E1-T4-HSS-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3286.4 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

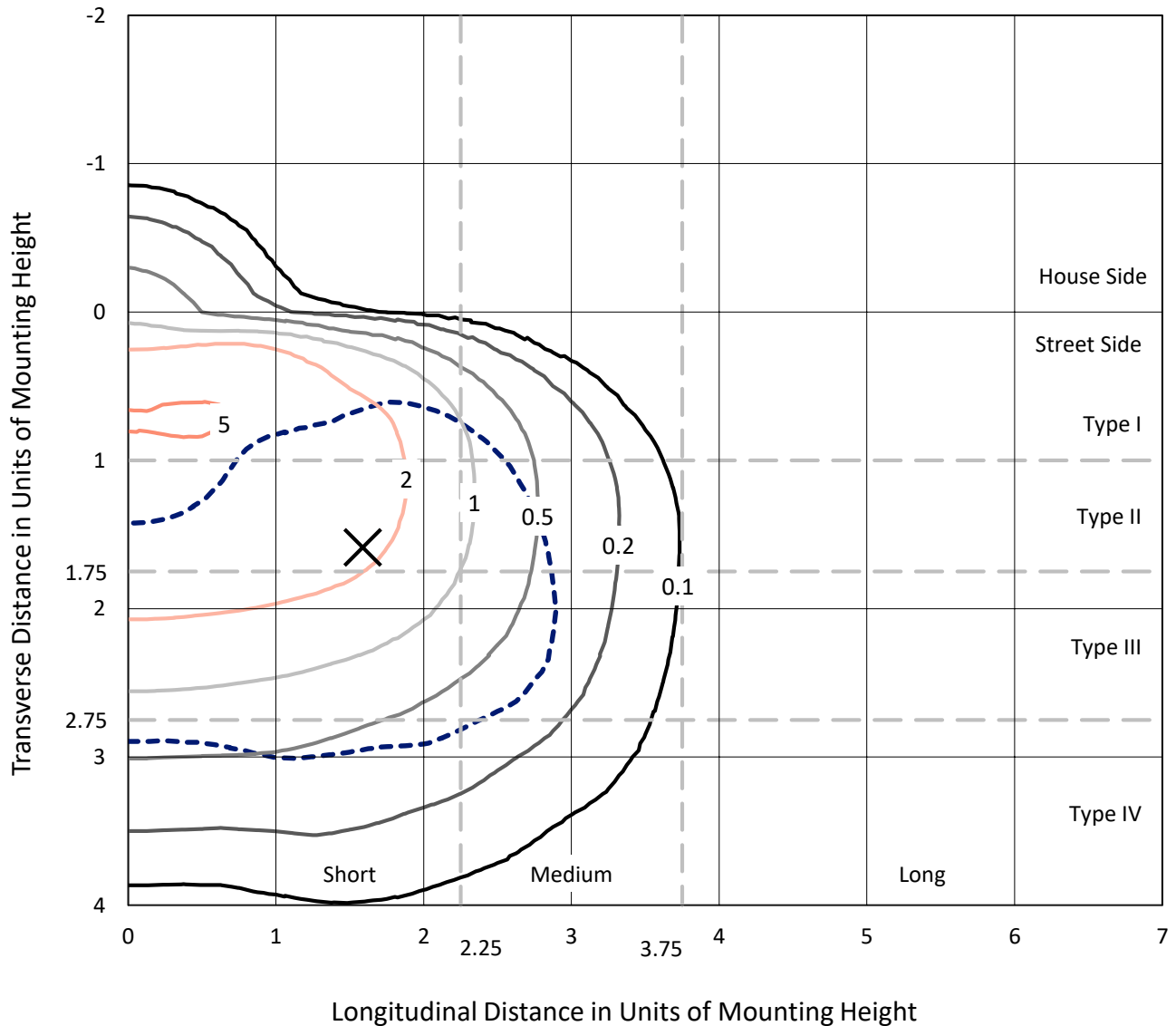
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P181528
 CATALOG NUMBER: ICM-E02-LED-E1-T4-HSS-7030

Iso-Footcandle Lines of Horizontal Illumination

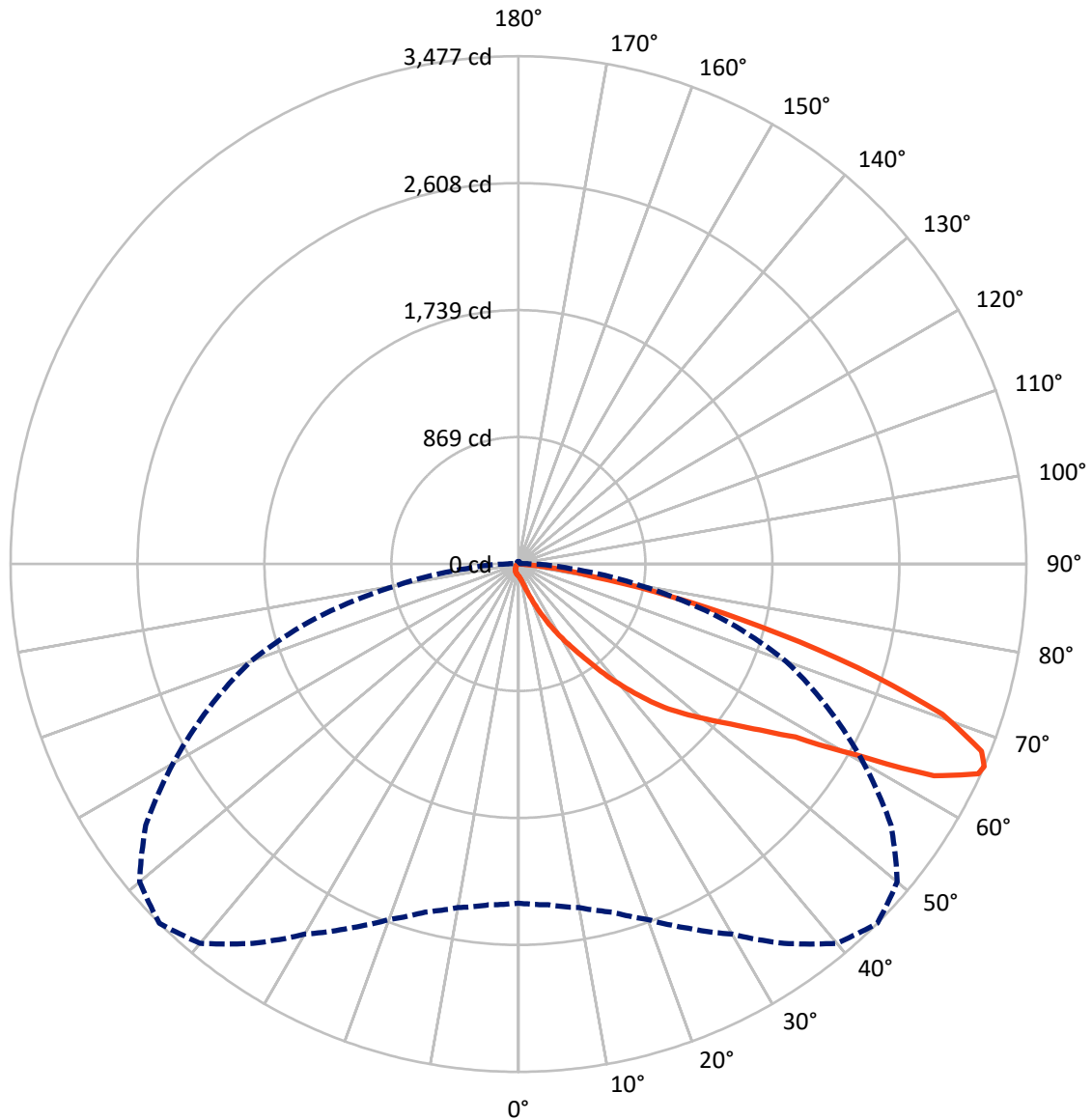
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P181528
CATALOG NUMBER: ICM-E02-LED-E1-T4-HSS-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P181528

CATALOG NUMBER: ICM-E02-LED-E1-T4-HSS-7030

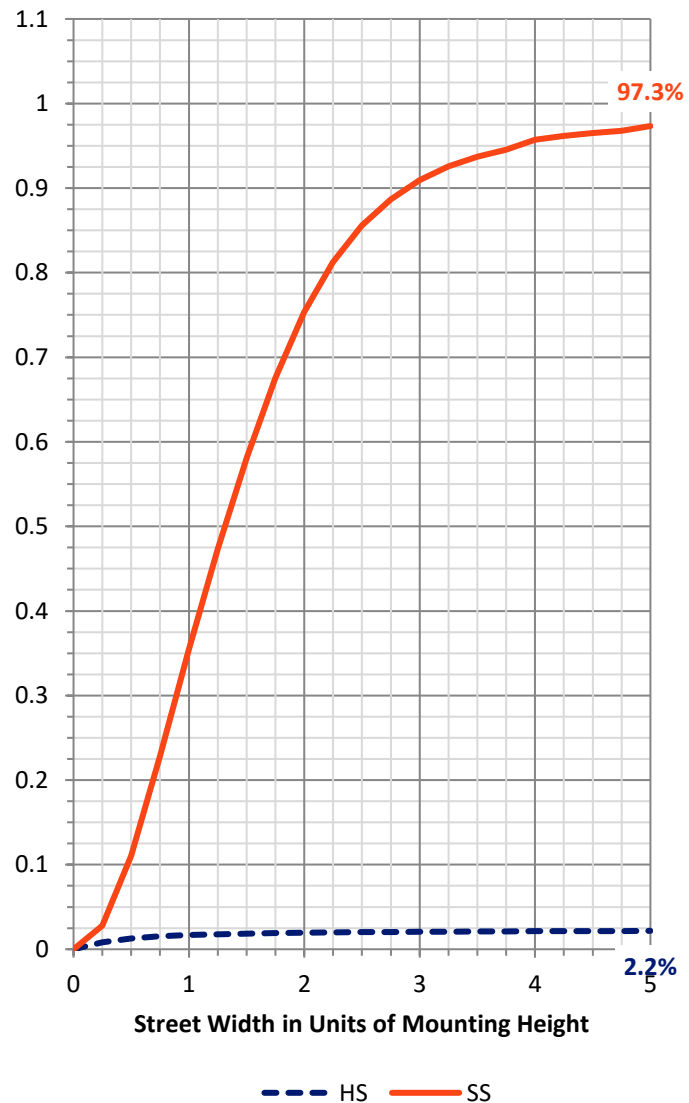
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	74.5	0.0	74.5
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	3211.9	0.0	3211.9
	% Fixture	97.7	0.0	97.7
Total	Lumens	3286.4	0.0	3286.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.3	0.3
10°-20°	33.5	1.0
20°-30°	98.2	3.0
30°-40°	229.3	7.0
40°-50°	430.8	13.1
50°-60°	713.9	21.7
60°-70°	1133.3	34.5
70°-80°	586.1	17.8
80°-90°	52.9	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°	3286.4	100.0
0°-180°	3286.4	100.0



REPORT NUMBER: P181528

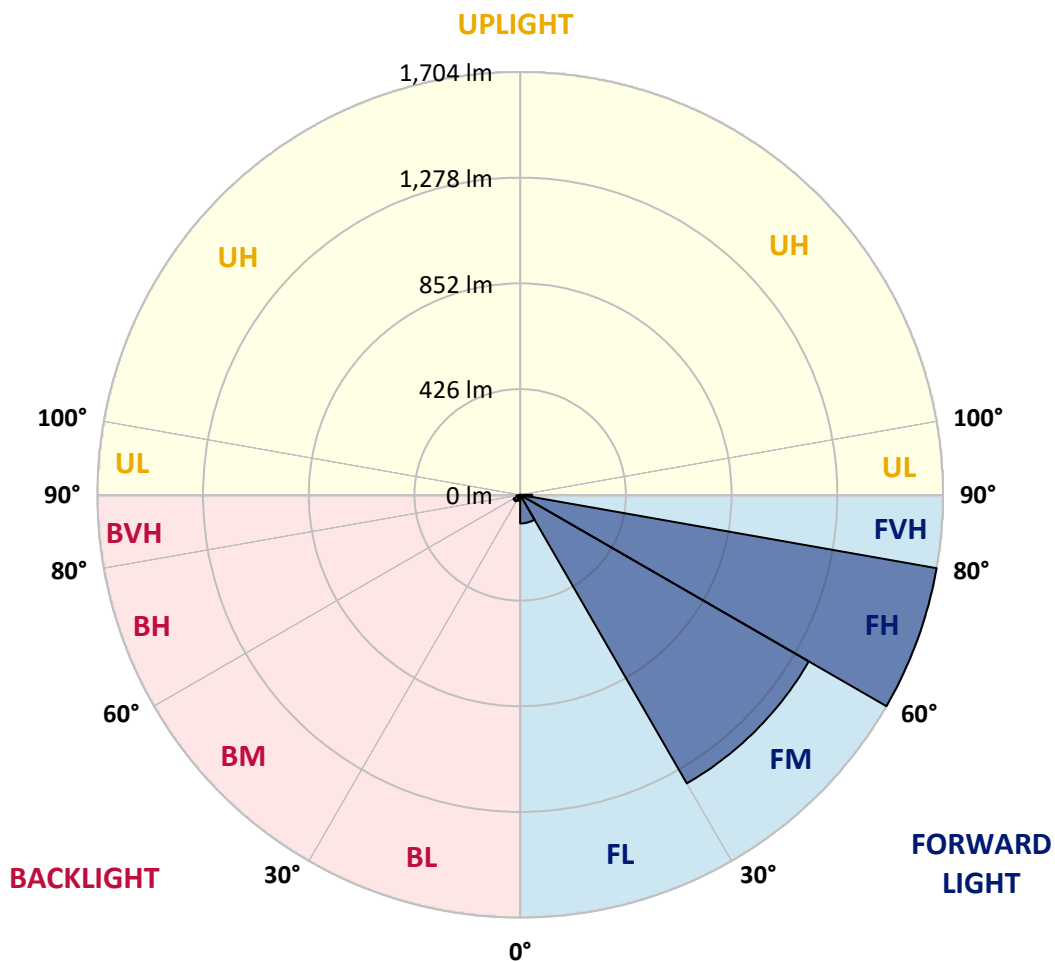
CATALOG NUMBER: ICM-E02-LED-E1-T4-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	115.6	3.5			
FM (30°-60°)	1343.2	40.9			
FH (60°-80°)	1704.4	51.9			G1/1800
FVH (80°-90°)	48.8	1.5			G1/100
BL (0°-30°)	24.3	0.7	B0/110		
BM (30°-60°)	30.9	0.9	B0/220		
BH (60°-80°)	15.1	0.5	B0/110		G0/110
BVH (80°-90°)	4.2	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





REPORT NUMBER: P181528

CATALOG NUMBER: ICM-E02-LED-E1-T4-HSS-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
2.5°	88.9	88.9	88.9	88.9	88.4	87.8	87.3	86.7	86.1	86.1	85.5
5°	100.8	101.4	100.8	100.3	99.2	98.5	96.8	95.7	94.0	93.5	91.7
7.5°	117.2	116.7	117.2	115.5	113.3	112.7	110.4	107.6	105.4	102.0	99.7
10°	141.0	140.5	141.0	137.7	134.2	131.4	127.4	124.0	119.0	115.0	110.4
12.5°	179.0	179.0	177.9	173.3	168.8	162.6	156.4	148.9	139.9	132.0	124.7
15°	237.3	234.5	229.4	226.6	218.6	209.0	202.2	187.4	174.4	162.0	147.3
17.5°	307.5	301.9	298.0	291.7	281.5	269.0	257.7	236.2	223.2	202.8	181.9
20°	388.0	381.2	380.1	370.4	359.7	346.0	329.7	304.2	282.0	256.6	227.2
22.5°	470.1	471.3	466.7	459.9	449.2	433.3	407.8	384.6	357.4	325.1	287.2
25°	561.9	561.3	557.4	549.4	541.5	521.7	501.3	479.2	446.9	405.6	360.3
27.5°	648.0	647.4	637.8	638.3	623.1	615.7	595.9	572.1	533.0	498.4	449.2
30°	738.1	732.4	726.1	721.6	710.9	697.9	687.6	659.4	629.9	589.1	548.8
32.5°	829.2	823.0	824.7	819.1	810.5	797.5	782.2	759.0	727.3	687.6	650.2
35°	940.8	938.0	933.5	935.2	933.5	923.8	910.8	880.2	845.7	807.7	769.2
37.5°	1023.5	1020.7	1023.5	1035.4	1038.2	1044.5	1034.9	1019.5	994.6	953.3	913.0
40°	1100.0	1100.6	1113.6	1128.3	1138.5	1158.9	1162.3	1156.1	1136.3	1098.3	1045.6
42.5°	1168.6	1177.0	1188.9	1213.3	1235.4	1264.3	1285.8	1289.2	1274.4	1249.5	1196.3
45°	1245.0	1252.4	1271.1	1299.9	1330.5	1366.2	1400.8	1418.9	1417.8	1400.2	1343.0
47.5°	1330.5	1340.2	1360.6	1384.4	1425.1	1465.3	1510.1	1542.3	1555.9	1531.6	1476.1
50°	1434.1	1438.1	1455.7	1486.3	1523.6	1570.1	1618.8	1665.9	1692.5	1669.8	1612.6
52.5°	1557.1	1558.2	1574.6	1603.0	1633.0	1684.0	1731.5	1796.7	1831.3	1818.8	1750.2
55°	1725.9	1722.5	1733.8	1758.2	1782.5	1831.8	1879.4	1953.0	2003.5	2004.6	1931.5
57.5°	1956.4	1948.5	1955.8	1975.1	2002.3	2048.2	2108.2	2173.4	2240.8	2236.2	2176.2
60°	2277.6	2274.7	2288.4	2320.7	2367.1	2414.6	2482.6	2570.4	2629.9	2650.2	2587.5
62.5°	2491.1	2499.1	2530.2	2580.0	2669.5	2768.1	2894.4	3028.7	3142.0	3192.9	3106.3
65°	2399.4	2412.4	2461.1	2534.7	2653.1	2800.9	2968.6	3188.9	3384.4	3462.0	3371.9
66°	2321.8	2342.7	2388.6	2466.8	2590.2	2751.6	2926.7	3170.3	3390.1	3477.2	3385.5
67.5°	2187.5	2202.2	2254.3	2341.0	2473.6	2633.3	2822.4	3079.6	3327.7	3420.0	3328.9
70°	1914.0	1919.6	1962.1	2035.7	2138.2	2302.0	2473.6	2721.1	2949.3	3079.1	2979.4
72.5°	1424.6	1432.5	1502.7	1636.9	1770.1	1863.0	1964.4	2162.6	2309.9	2431.1	2411.8
75°	685.4	688.7	735.8	931.7	1191.2	1302.2	1396.2	1549.8	1605.8	1707.2	1691.9
77.5°	434.4	441.8	472.4	520.0	667.3	799.3	873.4	961.2	977.7	1063.2	1013.3
80°	119.5	138.8	169.4	249.2	427.6	509.8	543.2	539.8	543.2	517.1	500.2
82.5°	24.4	23.8	28.9	44.7	188.7	296.8	320.6	273.0	271.4	261.1	269.6
85°	6.2	5.7	6.8	14.1	32.3	87.8	110.4	61.8	47.0	44.7	39.6
87.5°	1.7	1.7	1.7	2.8	3.4	4.6	6.2	4.6	3.4	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P181528

CATALOG NUMBER: ICM-E02-LED-E1-T4-HSS-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
2.5°	84.9	84.9	84.4	83.8	83.8	83.3	82.7	82.1	81.6	81.0	80.5
5°	90.0	88.9	87.3	86.1	84.9	83.3	82.1	81.0	79.9	79.3	78.1
7.5°	96.8	94.0	91.7	88.4	86.1	83.8	81.6	79.9	78.1	77.0	75.9
10°	105.4	100.8	96.3	91.7	87.8	84.4	81.0	78.1	76.5	74.8	73.7
12.5°	116.1	109.3	103.1	96.3	90.0	84.9	80.5	77.0	74.8	73.0	71.3
15°	133.7	122.9	112.2	102.0	94.0	86.1	79.9	75.9	73.0	71.3	69.7
17.5°	161.4	142.1	125.2	111.0	98.0	87.8	79.9	74.8	71.3	69.1	67.4
20°	201.7	170.0	142.7	122.3	105.4	90.6	79.9	73.0	69.7	66.9	65.1
22.5°	249.2	209.6	172.2	138.2	113.9	94.6	79.9	71.3	67.4	65.1	62.9
25°	318.9	266.2	215.3	167.6	128.0	100.8	81.6	70.2	65.7	62.9	60.7
27.5°	400.5	337.0	273.6	206.7	149.5	109.9	83.8	69.1	64.0	60.7	58.3
30°	493.4	423.1	345.5	258.9	177.9	121.8	87.8	68.6	61.8	58.3	55.5
32.5°	594.1	520.0	435.0	325.7	219.8	139.9	92.9	68.0	59.4	55.5	52.1
35°	714.2	645.1	541.5	419.7	284.9	171.1	104.2	69.1	57.2	52.7	48.7
37.5°	845.7	772.0	662.1	519.4	349.5	206.1	112.7	67.4	53.2	48.7	44.7
40°	978.2	893.8	782.2	624.2	431.6	249.2	123.4	65.7	49.3	44.7	40.7
42.5°	1107.4	1018.4	897.2	731.8	518.2	300.2	137.1	65.7	46.4	40.7	36.8
45°	1242.7	1135.6	1003.2	834.9	604.4	358.5	156.4	65.1	43.1	37.4	32.8
47.5°	1370.7	1243.8	1091.5	925.5	696.7	422.5	178.4	65.7	40.2	34.0	30.0
50°	1491.9	1346.4	1182.1	1006.5	785.0	491.6	205.6	66.2	37.4	31.2	27.2
52.5°	1624.5	1463.1	1279.5	1089.8	872.3	561.3	237.3	67.4	34.5	28.3	24.9
55°	1788.8	1609.8	1399.6	1191.7	964.7	631.5	267.9	68.6	31.7	26.0	22.7
57.5°	2025.5	1821.6	1594.5	1344.7	1087.0	711.4	299.6	71.3	29.5	24.4	20.9
60°	2410.7	2167.7	1905.4	1610.9	1270.0	819.6	345.5	77.6	26.6	22.0	19.8
62.5°	2874.1	2581.8	2248.1	1890.7	1442.1	892.7	376.1	84.4	24.4	20.4	18.7
65°	3107.4	2739.2	2354.6	1968.8	1464.2	871.2	363.6	82.1	21.5	18.1	15.8
66°	3114.2	2730.7	2339.9	1951.9	1441.6	845.1	351.7	81.0	20.9	17.6	14.7
67.5°	3049.6	2657.7	2261.7	1874.9	1374.7	794.7	330.2	77.0	19.3	15.8	13.0
70°	2730.7	2348.9	1985.9	1628.5	1182.7	669.5	277.0	68.0	17.0	14.1	11.9
72.5°	2176.8	1865.8	1559.9	1281.2	919.3	502.4	218.6	55.5	14.7	12.5	10.2
75°	1520.3	1264.8	1032.0	833.2	577.8	300.7	141.6	39.1	12.5	10.2	8.5
77.5°	848.5	672.9	508.7	387.4	230.5	94.0	47.0	19.8	10.8	7.9	6.8
80°	431.6	320.0	243.5	179.5	106.5	48.7	23.8	13.0	8.5	6.2	5.7
82.5°	250.9	184.1	146.7	116.1	73.0	36.8	19.3	9.7	5.7	4.6	5.1
85°	56.1	74.2	62.9	53.2	39.1	23.3	13.6	6.2	4.0	4.0	4.6
87.5°	4.6	6.2	5.7	7.3	7.9	7.3	5.7	3.4	2.8	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P181528

CATALOG NUMBER: ICM-E02-LED-E1-T4-HSS-7030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
2.5°	79.9	79.3	79.3	78.7	78.1	78.1	78.1	77.6	78.1	78.1	78.1
5°	77.6	77.0	76.5	75.9	75.3	74.8	74.8	74.2	74.2	74.2	74.8
7.5°	75.3	74.2	73.7	72.5	71.9	71.3	71.3	70.8	70.8	70.8	70.8
10°	72.5	71.3	70.2	69.7	69.1	68.0	68.0	67.4	66.9	66.9	66.9
12.5°	70.2	69.1	68.0	66.9	65.7	65.1	64.6	64.0	63.4	63.4	63.4
15°	68.0	66.2	65.1	64.0	62.9	61.8	61.2	60.7	60.0	59.4	59.4
17.5°	65.7	64.0	62.3	61.2	60.0	58.9	58.3	56.7	56.7	56.1	56.1
20°	62.9	61.2	59.4	58.3	57.2	56.1	55.0	53.8	52.7	52.1	52.1
22.5°	60.7	58.9	57.2	55.5	53.8	52.1	51.0	49.9	49.3	48.7	48.2
25°	58.3	56.1	53.8	52.1	50.4	48.7	47.5	46.4	45.3	44.7	44.7
27.5°	55.5	53.2	51.0	48.7	47.0	45.3	44.2	42.5	42.0	41.3	40.7
30°	52.7	49.9	47.5	45.3	43.6	41.3	40.2	39.1	38.0	38.0	37.4
32.5°	49.3	46.4	44.2	42.0	39.6	38.0	36.8	35.7	35.2	34.0	34.0
35°	45.9	43.1	40.2	38.0	36.3	34.5	33.4	32.3	31.2	30.6	30.6
37.5°	42.0	39.1	36.8	34.5	32.8	31.2	30.0	28.9	28.3	27.7	27.2
40°	37.4	34.5	32.8	31.2	29.5	28.3	26.6	25.5	24.9	24.4	23.8
42.5°	33.4	30.6	29.5	28.3	26.6	25.5	23.8	22.7	21.5	20.9	20.4
45°	30.0	27.7	26.6	25.5	23.8	22.0	20.9	19.8	18.7	18.1	18.1
47.5°	26.6	24.9	23.8	22.7	20.9	19.8	18.1	17.6	16.5	16.5	16.5
50°	24.4	22.7	21.5	20.4	19.3	17.6	16.5	15.8	15.3	15.3	15.8
52.5°	22.7	20.9	19.8	18.7	17.6	16.5	15.3	14.7	14.7	15.3	15.8
55°	20.9	19.3	18.1	17.0	15.8	15.3	14.1	14.1	14.7	15.3	15.8
57.5°	19.8	17.6	16.5	15.8	14.7	14.1	14.1	14.1	14.7	15.3	16.5
60°	18.1	15.8	14.7	14.7	13.6	13.6	13.6	14.1	14.7	15.8	16.5
62.5°	15.8	14.1	13.6	13.6	13.0	13.0	13.6	14.1	15.3	15.8	16.5
65°	13.6	12.5	12.5	12.5	12.5	13.0	13.6	14.1	14.7	15.8	16.5
66°	12.5	11.9	11.9	12.5	12.5	13.0	13.6	14.1	14.7	15.3	15.8
67.5°	11.9	11.3	11.3	11.9	12.5	12.5	13.0	14.1	14.7	15.3	15.3
70°	10.2	10.2	10.2	11.3	11.9	12.5	13.0	13.6	14.1	14.7	15.3
72.5°	9.0	9.0	9.7	10.2	11.3	11.9	12.5	13.0	14.1	14.7	14.7
75°	7.9	7.9	9.0	9.7	10.8	11.3	12.5	13.0	13.6	14.1	14.1
77.5°	6.8	7.3	8.5	9.7	10.2	11.3	11.9	12.5	13.0	13.6	13.6
80°	6.2	7.3	8.5	9.0	9.7	10.2	10.8	11.9	12.5	13.0	13.6
82.5°	6.2	6.8	7.9	8.5	9.0	10.2	10.8	11.3	11.9	12.5	13.0
85°	5.1	6.2	6.8	7.9	8.5	9.7	10.2	10.2	10.8	11.3	11.9
87.5°	4.0	4.6	4.6	5.7	6.2	7.3	8.5	8.5	9.0	9.7	10.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P181528

CATALOG NUMBER: ICM-E02-LED-E1-T4-HSS-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	82.1	82.1	82.1	82.1
2.5°	78.1	78.7	78.7	78.7
5°	74.8	74.8	74.8	74.8
7.5°	70.8	70.8	70.8	70.8
10°	66.9	66.9	67.4	66.9
12.5°	63.4	62.9	62.9	62.9
15°	59.4	59.4	58.9	59.4
17.5°	55.5	55.5	55.0	55.0
20°	51.5	51.5	51.5	51.5
22.5°	48.2	47.5	47.5	47.5
25°	44.2	44.2	44.2	44.2
27.5°	40.7	40.7	40.7	40.7
30°	37.4	37.4	36.8	36.8
32.5°	34.0	34.0	34.0	34.0
35°	30.6	30.6	30.0	30.0
37.5°	26.6	26.6	26.6	26.6
40°	23.3	23.3	23.3	23.3
42.5°	20.4	20.4	19.8	19.8
45°	17.6	17.6	17.6	17.6
47.5°	16.5	16.5	16.5	16.5
50°	15.8	16.5	16.5	16.5
52.5°	16.5	16.5	16.5	16.5
55°	16.5	17.0	17.0	17.0
57.5°	16.5	17.0	17.0	17.6
60°	17.0	17.6	17.6	17.6
62.5°	17.0	17.6	17.6	17.6
65°	16.5	17.0	17.0	17.0
66°	16.5	16.5	16.5	17.0
67.5°	15.8	16.5	16.5	16.5
70°	15.3	15.8	15.8	16.5
72.5°	15.3	15.8	15.8	15.8
75°	14.7	14.7	15.3	15.3
77.5°	14.1	14.1	14.7	14.7
80°	13.6	14.1	14.1	14.1
82.5°	13.0	13.6	13.6	13.6
85°	11.9	12.5	12.5	12.5
87.5°	10.2	10.2	10.8	10.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)