

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: P181558

Luminaire Tested: **ICM-E05-LED-E1-T4-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181558
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-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (105) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8216.1 lumens
Efficiency: N/A
Efficacy: 64.5 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

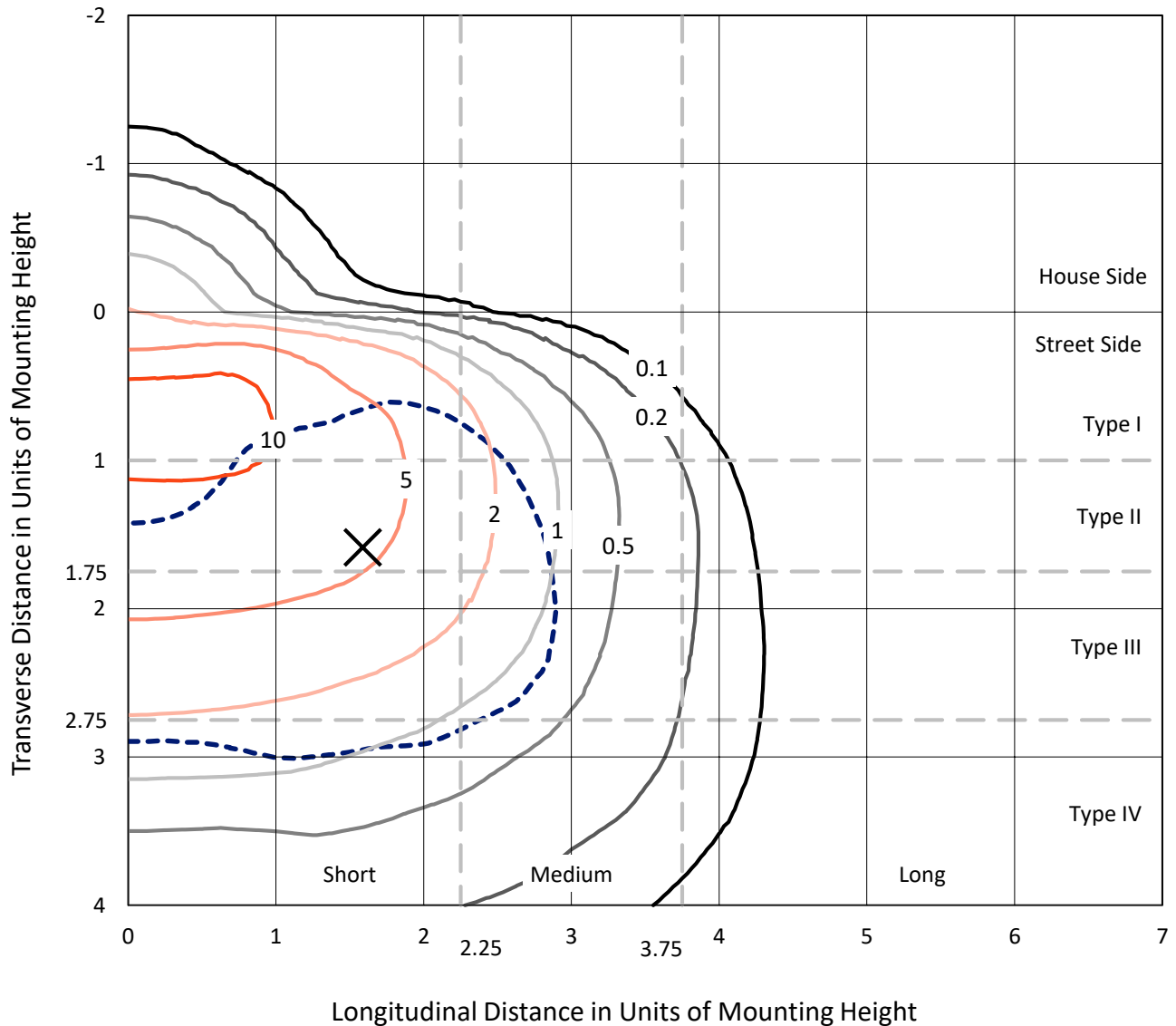
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P181558
 CATALOG NUMBER: ICM-E05-LED-E1-T4-HSS-7030

Iso-Footcandle Lines of Horizontal Illumination

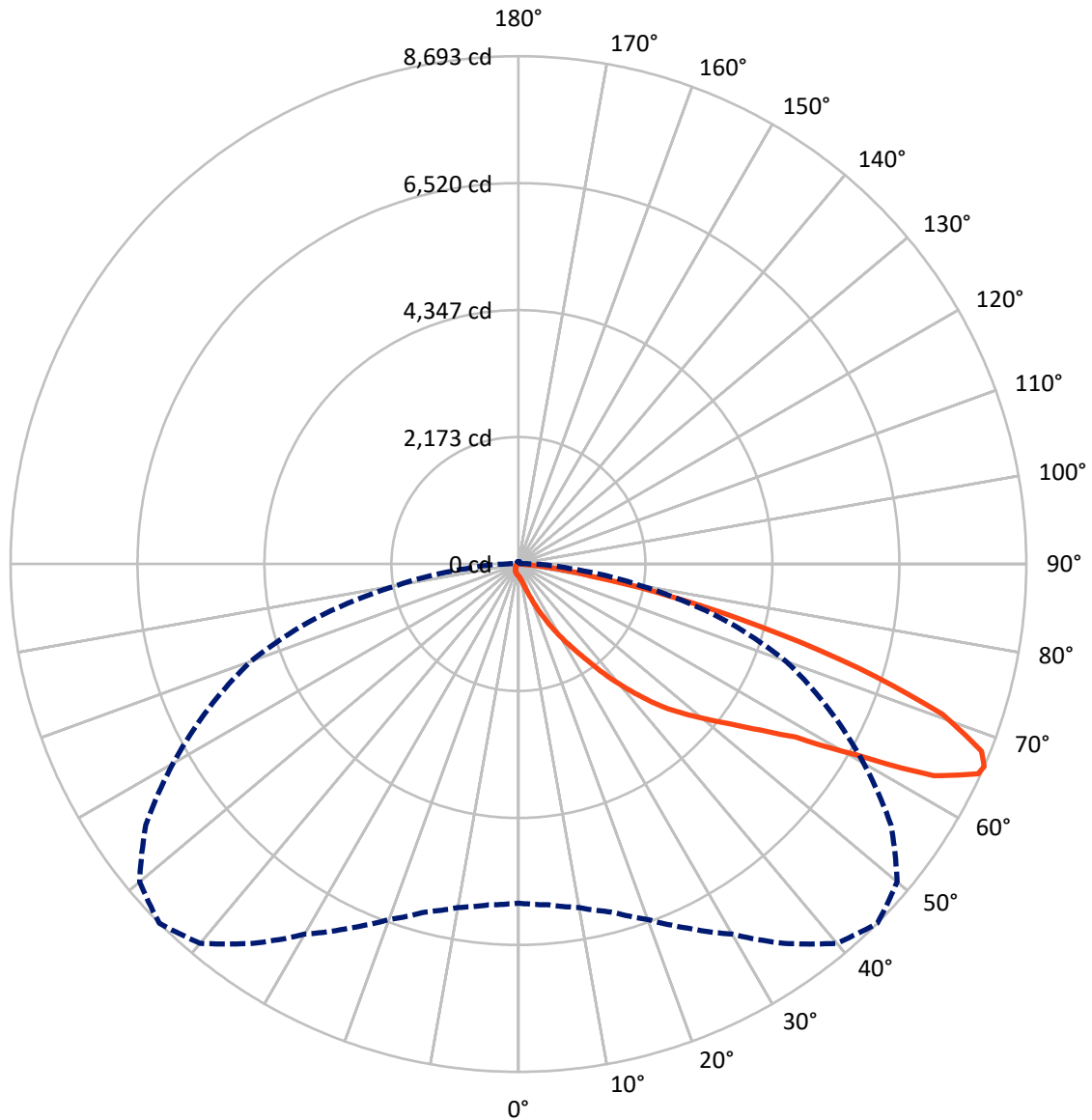
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P181558
CATALOG NUMBER: ICM-E05-LED-E1-T4-HSS-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P181558

CATALOG NUMBER: ICM-E05-LED-E1-T4-HSS-7030

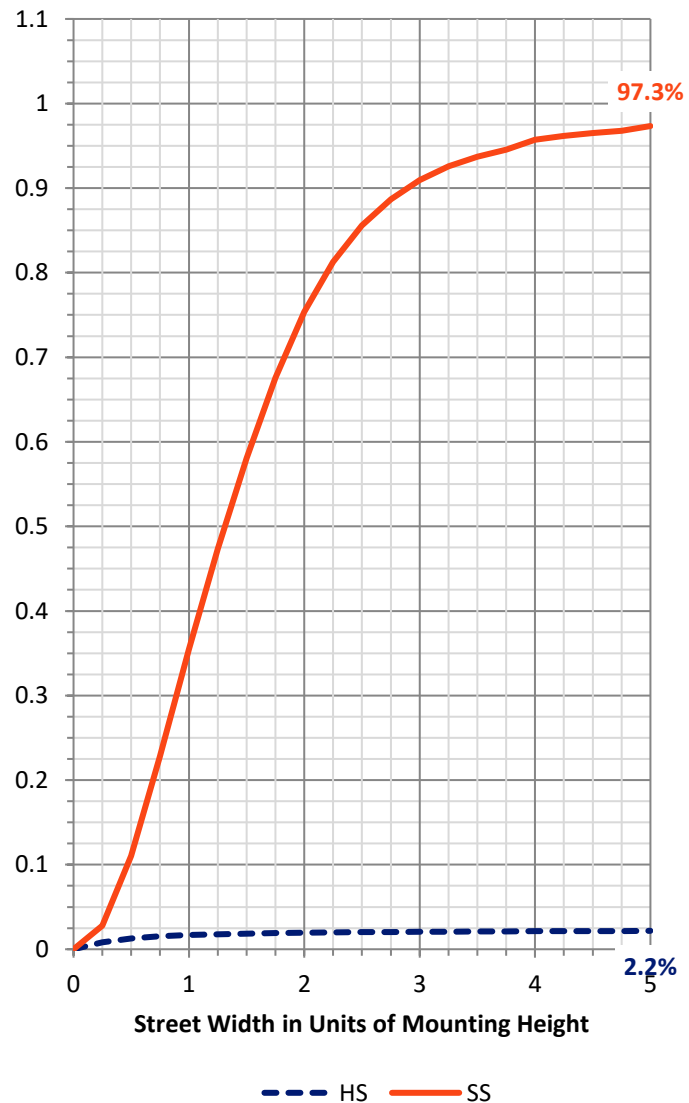
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	186.2	0.0	186.2
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	8029.9	0.0	8029.9
	% Fixture	97.7	0.0	97.7
Total	Lumens	8216.1	0.0	8216.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.7	0.3
10°-20°	83.8	1.0
20°-30°	245.5	3.0
30°-40°	573.4	7.0
40°-50°	1077.0	13.1
50°-60°	1784.8	21.7
60°-70°	2833.4	34.5
70°-80°	1465.3	17.8
80°-90°	132.3	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°	8216.1	100.0
0°-180°	8216.1	100.0



REPORT NUMBER: P181558

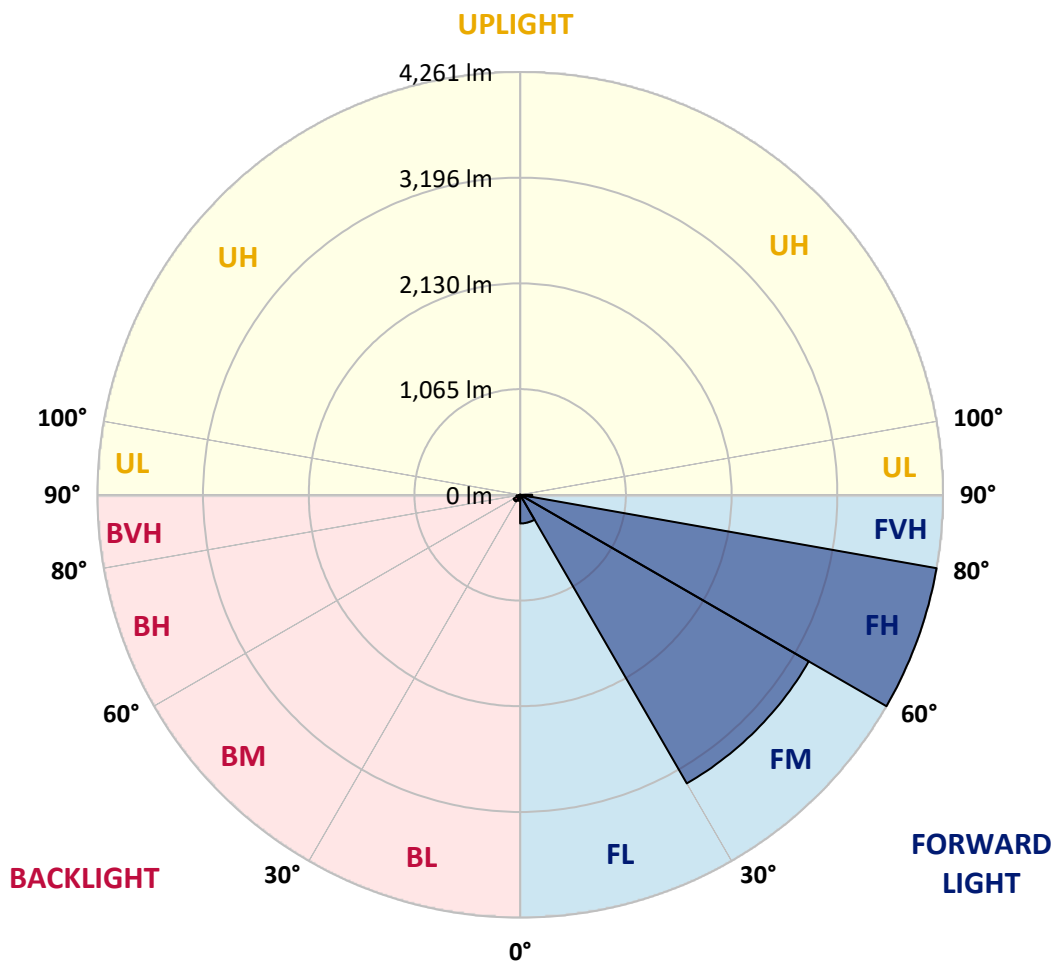
CATALOG NUMBER: ICM-E05-LED-E1-T4-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	289.1	3.5			
FM	(30°-60°)	3357.9	40.9			
FH	(60°-80°)	4261.0	51.9			G2/5000
FVH	(80°-90°)	121.9	1.5			G2/225
BL	(0°-30°)	60.8	0.7	B0/110		
BM	(30°-60°)	77.2	0.9	B0/220		
BH	(60°-80°)	37.7	0.5	B0/110		G0/110
BVH	(80°-90°)	10.5	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





REPORT NUMBER: P181558

CATALOG NUMBER: ICM-E05-LED-E1-T4-HSS-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	205.3	205.3	205.3	205.3	205.3	205.3	205.3	205.3	205.3	205.3	205.3
2.5°	222.3	222.3	222.3	222.3	220.9	219.4	218.0	216.7	215.3	215.3	213.9
5°	252.1	253.5	252.1	250.6	247.8	246.4	242.1	239.4	235.1	233.7	229.4
7.5°	293.1	291.7	293.1	288.8	283.3	281.8	276.1	269.0	263.4	254.9	249.2
10°	352.6	351.2	352.6	344.1	335.6	328.6	318.6	310.1	297.4	287.4	276.1
12.5°	447.4	447.4	444.7	433.3	422.0	406.4	390.8	372.5	349.8	330.0	311.5
15°	593.3	586.2	573.5	566.4	546.6	522.5	505.5	468.7	436.2	405.0	368.2
17.5°	768.9	754.8	744.8	729.3	703.8	672.7	644.3	590.5	558.0	507.0	454.5
20°	970.0	953.0	950.1	926.1	899.2	865.2	824.1	760.4	705.2	641.5	567.8
22.5°	1175.4	1178.1	1166.8	1149.9	1122.9	1083.3	1019.5	961.5	893.5	812.8	718.0
25°	1404.8	1403.4	1393.4	1373.6	1353.8	1304.2	1253.2	1198.0	1117.3	1013.9	900.7
27.5°	1620.0	1618.5	1594.5	1595.9	1557.7	1539.3	1489.7	1430.2	1332.5	1246.1	1122.9
30°	1845.1	1831.0	1815.4	1804.0	1777.1	1744.6	1719.1	1648.3	1574.6	1472.7	1372.2
32.5°	2073.1	2057.5	2061.8	2047.6	2026.3	1993.8	1955.5	1897.5	1818.2	1719.1	1625.6
35°	2352.1	2344.9	2333.7	2337.9	2333.7	2309.6	2277.0	2200.6	2114.2	2019.3	1923.0
37.5°	2558.8	2551.7	2558.8	2588.6	2595.6	2611.2	2587.2	2548.9	2486.6	2383.2	2282.7
40°	2750.0	2751.4	2783.9	2820.8	2846.2	2897.2	2905.8	2890.2	2840.6	2745.7	2614.1
42.5°	2921.3	2942.5	2972.3	3033.2	3088.4	3160.7	3214.4	3222.9	3186.2	3123.8	2990.7
45°	3112.5	3130.9	3177.6	3249.9	3326.3	3415.6	3501.9	3547.2	3544.4	3500.5	3357.5
47.5°	3326.3	3350.3	3401.3	3460.9	3562.8	3663.4	3775.2	3855.9	3889.9	3829.0	3690.3
50°	3585.4	3595.4	3639.3	3715.7	3809.2	3925.3	4047.1	4164.6	4231.2	4174.5	4031.5
52.5°	3892.8	3895.6	3936.7	4007.5	4082.4	4210.0	4328.9	4491.7	4578.1	4546.9	4375.7
55°	4314.7	4306.3	4334.5	4395.5	4456.3	4579.6	4698.4	4882.5	5008.6	5011.4	4828.8
57.5°	4891.1	4871.2	4889.6	4937.8	5005.8	5120.5	5270.5	5433.4	5601.9	5590.5	5440.5
60°	5694.0	5686.9	5720.9	5801.6	5917.7	6036.7	6206.5	6426.1	6574.7	6625.7	6468.5
62.5°	6227.9	6247.7	6325.5	6450.2	6673.9	6920.2	7236.0	7571.7	7854.8	7982.3	7765.6
65°	5998.5	6031.0	6152.8	6336.9	6632.8	7002.4	7421.5	7972.4	8460.9	8654.9	8429.8
66°	5804.4	5856.8	5971.5	6166.9	6475.7	6879.2	7316.8	7925.6	8475.1	8693.2	8463.8
67.5°	5468.8	5505.6	5635.9	5852.6	6183.9	6583.2	7056.2	7699.1	8319.3	8550.1	8322.2
70°	4784.9	4799.0	4905.2	5089.3	5345.6	5754.8	6183.9	6802.7	7373.4	7697.7	7448.4
72.5°	3561.4	3581.2	3756.8	4092.4	4425.1	4657.4	4910.9	5406.5	5774.6	6077.7	6029.5
75°	1713.4	1722.0	1839.5	2329.4	2978.0	3255.6	3490.5	3874.3	4014.5	4268.0	4229.8
77.5°	1086.1	1104.6	1181.0	1299.9	1668.1	1998.1	2183.5	2403.1	2444.1	2658.0	2533.3
80°	298.8	347.0	423.4	623.1	1069.1	1274.4	1358.0	1349.5	1358.0	1292.8	1250.3
82.5°	60.9	59.4	72.2	111.9	471.5	742.1	801.5	682.5	678.3	652.8	674.1
85°	15.5	14.1	17.0	35.4	80.7	219.4	276.1	154.3	117.5	111.9	99.2
87.5°	4.3	4.3	4.3	7.1	8.5	11.3	15.5	11.3	8.5	8.5	8.5
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: P181558

CATALOG NUMBER: ICM-E05-LED-E1-T4-HSS-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	205.3	205.3	205.3	205.3	205.3	205.3	205.3	205.3	205.3	205.3	205.3
2.5°	212.4	212.4	211.0	209.6	209.6	208.2	206.7	205.3	203.9	202.5	201.1
5°	225.1	222.3	218.0	215.3	212.4	208.2	205.3	202.5	199.6	198.2	195.4
7.5°	242.1	235.1	229.4	220.9	215.3	209.6	203.9	199.6	195.4	192.6	189.8
10°	263.4	252.1	240.7	229.4	219.4	211.0	202.5	195.4	191.2	186.9	184.1
12.5°	290.3	273.3	257.7	240.7	225.1	212.4	201.1	192.6	186.9	182.7	178.4
15°	334.2	307.3	280.4	254.9	235.1	215.3	199.6	189.8	182.7	178.4	174.1
17.5°	403.5	355.4	312.9	277.6	244.9	219.4	199.6	186.9	178.4	172.7	168.5
20°	504.1	424.8	356.8	305.9	263.4	226.6	199.6	182.7	174.1	167.1	162.9
22.5°	623.1	523.9	430.5	345.5	284.7	236.5	199.6	178.4	168.5	162.9	157.2
25°	797.2	665.6	538.1	419.2	320.0	252.1	203.9	175.6	164.3	157.2	151.5
27.5°	1001.1	842.5	683.9	516.8	373.9	274.7	209.6	172.7	160.0	151.5	145.9
30°	1233.4	1057.8	863.8	647.2	444.7	304.5	219.4	171.3	154.3	145.9	138.8
32.5°	1485.4	1299.9	1087.5	814.2	549.4	349.8	232.2	170.0	148.7	138.8	130.2
35°	1785.7	1612.8	1353.8	1049.3	712.3	427.6	260.6	172.7	143.0	131.7	121.8
37.5°	2114.2	1930.1	1655.4	1298.5	873.7	515.4	281.8	168.5	133.1	121.8	111.9
40°	2445.5	2234.5	1955.5	1560.5	1079.1	623.1	308.7	164.3	123.2	111.9	102.0
42.5°	2768.4	2546.1	2243.0	1829.5	1295.7	750.5	342.7	164.3	116.1	102.0	92.0
45°	3106.8	2839.2	2507.8	2087.3	1510.9	896.4	390.8	162.9	107.6	93.5	82.1
47.5°	3426.8	3109.7	2728.8	2313.9	1741.8	1056.4	446.0	164.3	100.6	84.9	75.1
50°	3729.9	3366.0	2955.3	2516.3	1962.6	1229.1	514.0	165.7	93.5	77.9	68.0
52.5°	4061.2	3657.7	3198.9	2724.5	2180.8	1403.4	593.3	168.5	86.4	70.8	62.3
55°	4471.9	4024.4	3499.1	2979.4	2411.5	1578.9	669.8	171.3	79.3	65.1	56.7
57.5°	5063.8	4554.1	3986.2	3361.7	2717.4	1778.5	749.1	178.4	73.7	60.9	52.4
60°	6026.7	5419.3	4763.7	4027.3	3174.8	2049.0	863.8	194.0	66.5	55.3	49.6
62.5°	7185.1	6454.4	5620.3	4726.8	3605.2	2231.7	940.3	211.0	60.9	51.0	46.7
65°	7768.5	6848.0	5886.5	4922.2	3660.5	2177.9	909.1	205.3	53.8	45.3	39.6
66°	7785.4	6826.8	5849.7	4879.8	3603.8	2112.8	879.4	202.5	52.4	43.9	36.8
67.5°	7624.0	6644.1	5654.3	4687.1	3436.8	1986.7	825.6	192.6	48.2	39.6	32.6
70°	6826.8	5872.4	4964.7	4071.2	2956.8	1673.8	692.5	170.0	42.5	35.4	29.8
72.5°	5441.9	4664.5	3899.8	3203.1	2298.2	1256.0	546.6	138.8	36.8	31.2	25.5
75°	3800.7	3162.1	2580.0	2083.0	1444.4	751.9	354.0	97.7	31.2	25.5	21.2
77.5°	2121.2	1682.2	1271.6	968.6	576.4	235.1	117.5	49.6	26.9	19.8	17.0
80°	1079.1	800.1	608.9	448.9	266.2	121.8	59.4	32.6	21.2	15.5	14.1
82.5°	627.4	460.2	366.8	290.3	182.7	92.0	48.2	24.1	14.1	11.3	12.7
85°	140.2	185.5	157.2	133.1	97.7	58.0	34.0	15.5	10.0	10.0	11.3
87.5°	11.3	15.5	14.1	18.4	19.8	18.4	14.1	8.5	7.1	8.5	8.5
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: P181558

CATALOG NUMBER: ICM-E05-LED-E1-T4-HSS-7030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	205.3	205.3	205.3	205.3	205.3	205.3	205.3	205.3	205.3	205.3	205.3
2.5°	199.6	198.2	198.2	196.8	195.4	195.4	195.4	194.0	195.4	195.4	195.4
5°	194.0	192.6	191.2	189.8	188.4	186.9	186.9	185.5	185.5	185.5	186.9
7.5°	188.4	185.5	184.1	181.2	179.8	178.4	178.4	177.0	177.0	177.0	177.0
10°	181.2	178.4	175.6	174.1	172.7	170.0	170.0	168.5	167.1	167.1	167.1
12.5°	175.6	172.7	170.0	167.1	164.3	162.9	161.4	160.0	158.6	158.6	158.6
15°	170.0	165.7	162.9	160.0	157.2	154.3	152.9	151.5	150.1	148.7	148.7
17.5°	164.3	160.0	155.7	152.9	150.1	147.3	145.9	141.6	141.6	140.2	140.2
20°	157.2	152.9	148.7	145.9	143.0	140.2	137.4	134.5	131.7	130.2	130.2
22.5°	151.5	147.3	143.0	138.8	134.5	130.2	127.4	124.7	123.2	121.8	120.4
25°	145.9	140.2	134.5	130.2	126.0	121.8	119.0	116.1	113.3	111.9	111.9
27.5°	138.8	133.1	127.4	121.8	117.5	113.3	110.4	106.2	104.7	103.3	102.0
30°	131.7	124.7	119.0	113.3	109.0	103.3	100.6	97.7	94.9	94.9	93.5
32.5°	123.2	116.1	110.4	104.7	99.2	94.9	92.0	89.2	87.8	84.9	84.9
35°	114.7	107.6	100.6	94.9	90.6	86.4	83.5	80.7	77.9	76.5	76.5
37.5°	104.7	97.7	92.0	86.4	82.1	77.9	75.1	72.2	70.8	69.4	68.0
40°	93.5	86.4	82.1	77.9	73.7	70.8	66.5	63.7	62.3	60.9	59.4
42.5°	83.5	76.5	73.7	70.8	66.5	63.7	59.4	56.7	53.8	52.4	51.0
45°	75.1	69.4	66.5	63.7	59.4	55.3	52.4	49.6	46.7	45.3	45.3
47.5°	66.5	62.3	59.4	56.7	52.4	49.6	45.3	43.9	41.0	41.0	41.0
50°	60.9	56.7	53.8	51.0	48.2	43.9	41.0	39.6	38.2	38.2	39.6
52.5°	56.7	52.4	49.6	46.7	43.9	41.0	38.2	36.8	36.8	38.2	39.6
55°	52.4	48.2	45.3	42.5	39.6	38.2	35.4	35.4	36.8	38.2	39.6
57.5°	49.6	43.9	41.0	39.6	36.8	35.4	35.4	35.4	36.8	38.2	41.0
60°	45.3	39.6	36.8	36.8	34.0	34.0	34.0	35.4	36.8	39.6	41.0
62.5°	39.6	35.4	34.0	34.0	32.6	32.6	34.0	35.4	38.2	39.6	41.0
65°	34.0	31.2	31.2	31.2	31.2	32.6	34.0	35.4	36.8	39.6	41.0
66°	31.2	29.8	29.8	31.2	31.2	32.6	34.0	35.4	36.8	38.2	39.6
67.5°	29.8	28.3	28.3	29.8	31.2	31.2	32.6	35.4	36.8	38.2	38.2
70°	25.5	25.5	25.5	28.3	29.8	31.2	32.6	34.0	35.4	36.8	38.2
72.5°	22.7	22.7	24.1	25.5	28.3	29.8	31.2	32.6	35.4	36.8	36.8
75°	19.8	19.8	22.7	24.1	26.9	28.3	31.2	32.6	34.0	35.4	35.4
77.5°	17.0	18.4	21.2	24.1	25.5	28.3	29.8	31.2	32.6	34.0	34.0
80°	15.5	18.4	21.2	22.7	24.1	25.5	26.9	29.8	31.2	32.6	34.0
82.5°	15.5	17.0	19.8	21.2	22.7	25.5	26.9	28.3	29.8	31.2	32.6
85°	12.7	15.5	17.0	19.8	21.2	24.1	25.5	25.5	26.9	28.3	29.8
87.5°	10.0	11.3	11.3	14.1	15.5	18.4	21.2	21.2	22.7	24.1	25.5
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: P181558

CATALOG NUMBER: ICM-E05-LED-E1-T4-HSS-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	205.3	205.3	205.3	205.3
2.5°	195.4	196.8	196.8	196.8
5°	186.9	186.9	186.9	186.9
7.5°	177.0	177.0	177.0	177.0
10°	167.1	167.1	168.5	167.1
12.5°	158.6	157.2	157.2	157.2
15°	148.7	148.7	147.3	148.7
17.5°	138.8	138.8	137.4	137.4
20°	128.8	128.8	128.8	128.8
22.5°	120.4	119.0	119.0	119.0
25°	110.4	110.4	110.4	110.4
27.5°	102.0	102.0	102.0	102.0
30°	93.5	93.5	92.0	92.0
32.5°	84.9	84.9	84.9	84.9
35°	76.5	76.5	75.1	75.1
37.5°	66.5	66.5	66.5	66.5
40°	58.0	58.0	58.0	58.0
42.5°	51.0	51.0	49.6	49.6
45°	43.9	43.9	43.9	43.9
47.5°	41.0	41.0	41.0	41.0
50°	39.6	41.0	41.0	41.0
52.5°	41.0	41.0	41.0	41.0
55°	41.0	42.5	42.5	42.5
57.5°	41.0	42.5	42.5	43.9
60°	42.5	43.9	43.9	43.9
62.5°	42.5	43.9	43.9	43.9
65°	41.0	42.5	42.5	42.5
66°	41.0	41.0	41.0	42.5
67.5°	39.6	41.0	41.0	41.0
70°	38.2	39.6	39.6	41.0
72.5°	38.2	39.6	39.6	39.6
75°	36.8	36.8	38.2	38.2
77.5°	35.4	35.4	36.8	36.8
80°	34.0	35.4	35.4	35.4
82.5°	32.6	34.0	34.0	34.0
85°	29.8	31.2	31.2	31.2
87.5°	25.5	25.5	26.9	26.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)