

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: P181562

Luminaire Tested: **ICM-F05-LED-E1-T4-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181562
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-F05-LED-E1-T4-HSS-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (35) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6267.5 lumens
Efficiency: N/A
Efficacy: 47.0 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

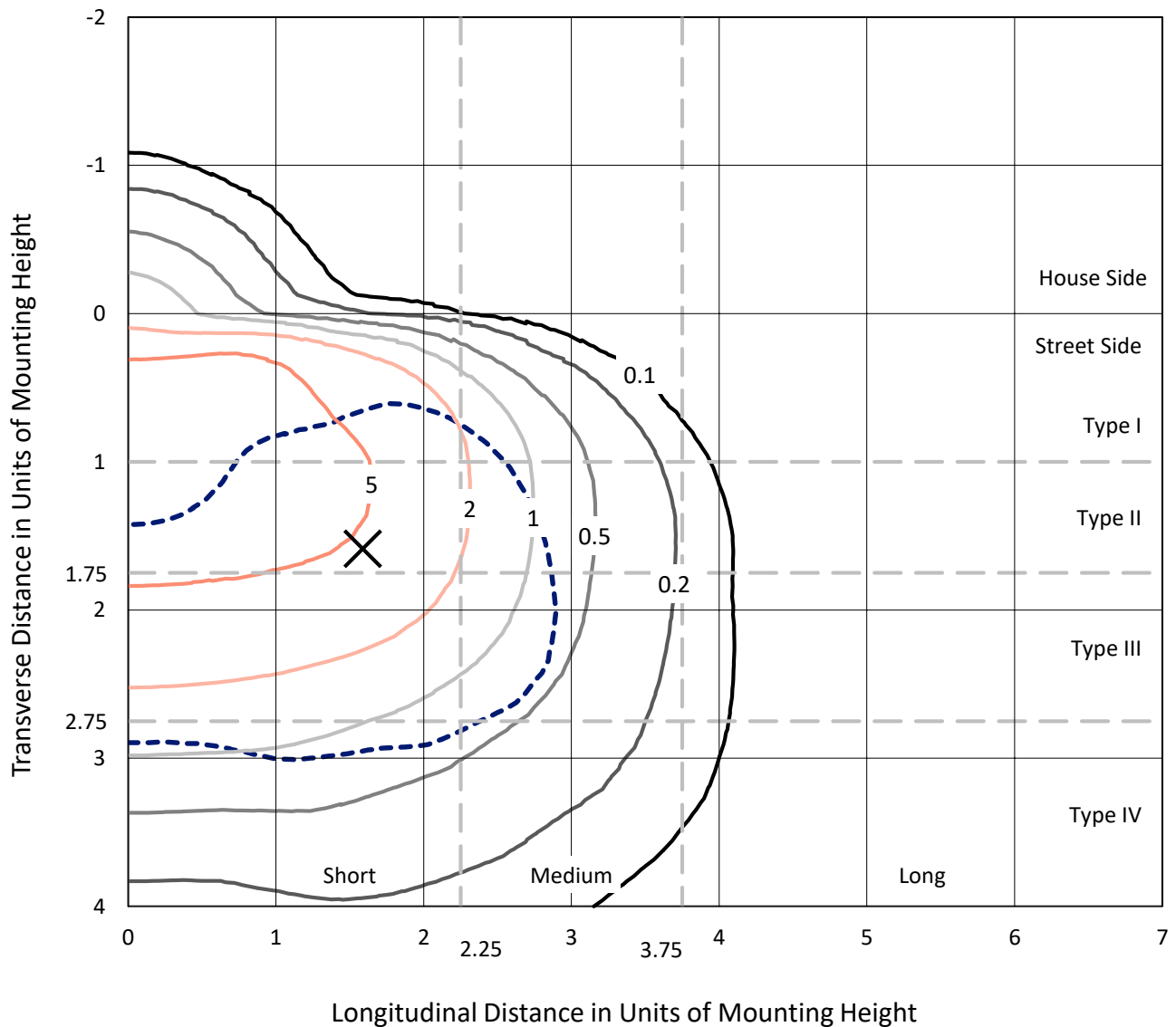
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P181562
 CATALOG NUMBER: ICM-F05-LED-E1-T4-HSS-8030

Iso-Footcandle Lines of Horizontal Illumination

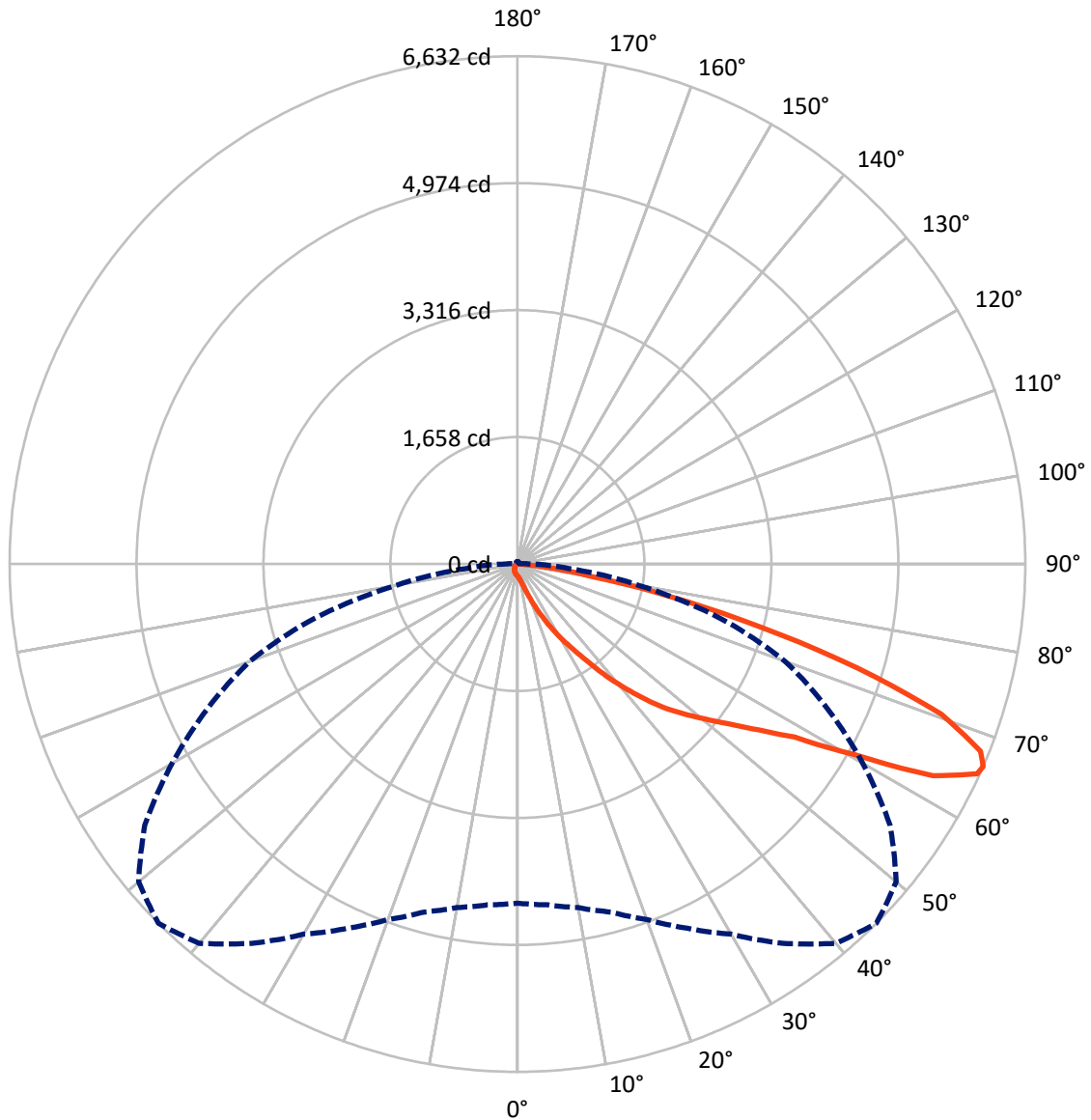
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.9 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P181562
CATALOG NUMBER: ICM-F05-LED-E1-T4-HSS-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P181562

CATALOG NUMBER: ICM-F05-LED-E1-T4-HSS-8030

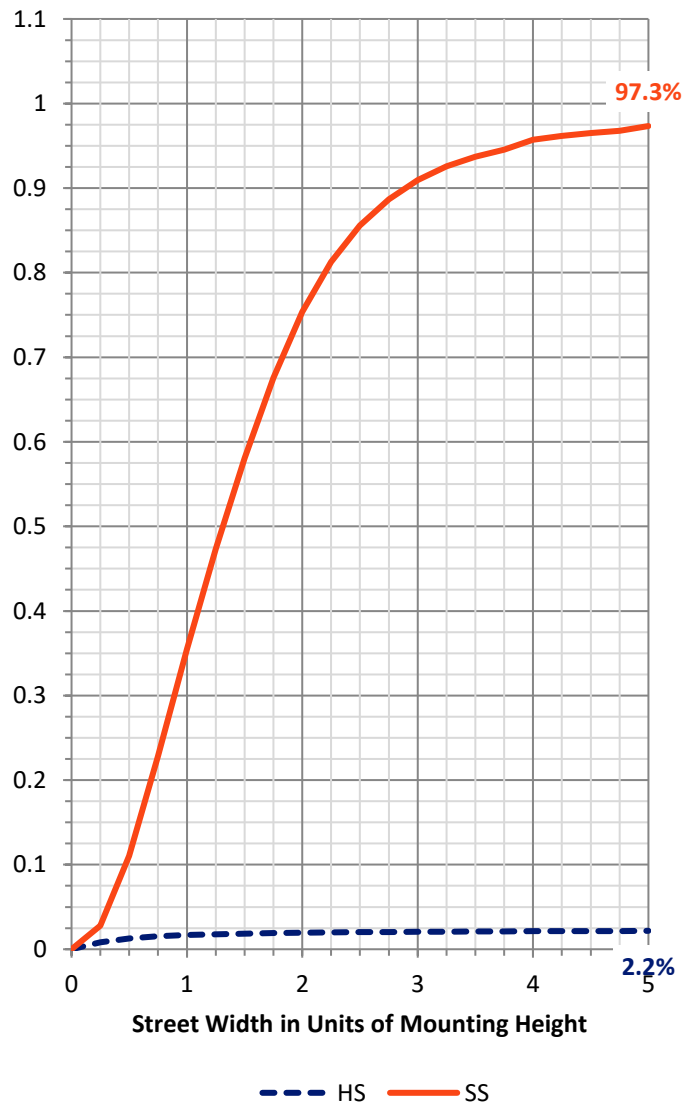
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	142.1	0.0	142.1
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	6125.5	0.0	6125.5
	% Fixture	97.7	0.0	97.7
Total	Lumens	6267.5	0.0	6267.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.8	0.3
10°-20°	63.9	1.0
20°-30°	187.2	3.0
30°-40°	437.4	7.0
40°-50°	821.6	13.1
50°-60°	1361.5	21.7
60°-70°	2161.4	34.5
70°-80°	1117.8	17.8
80°-90°	101.0	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°	6267.5	100.0
0°-180°	6267.5	100.0



REPORT NUMBER: P181562

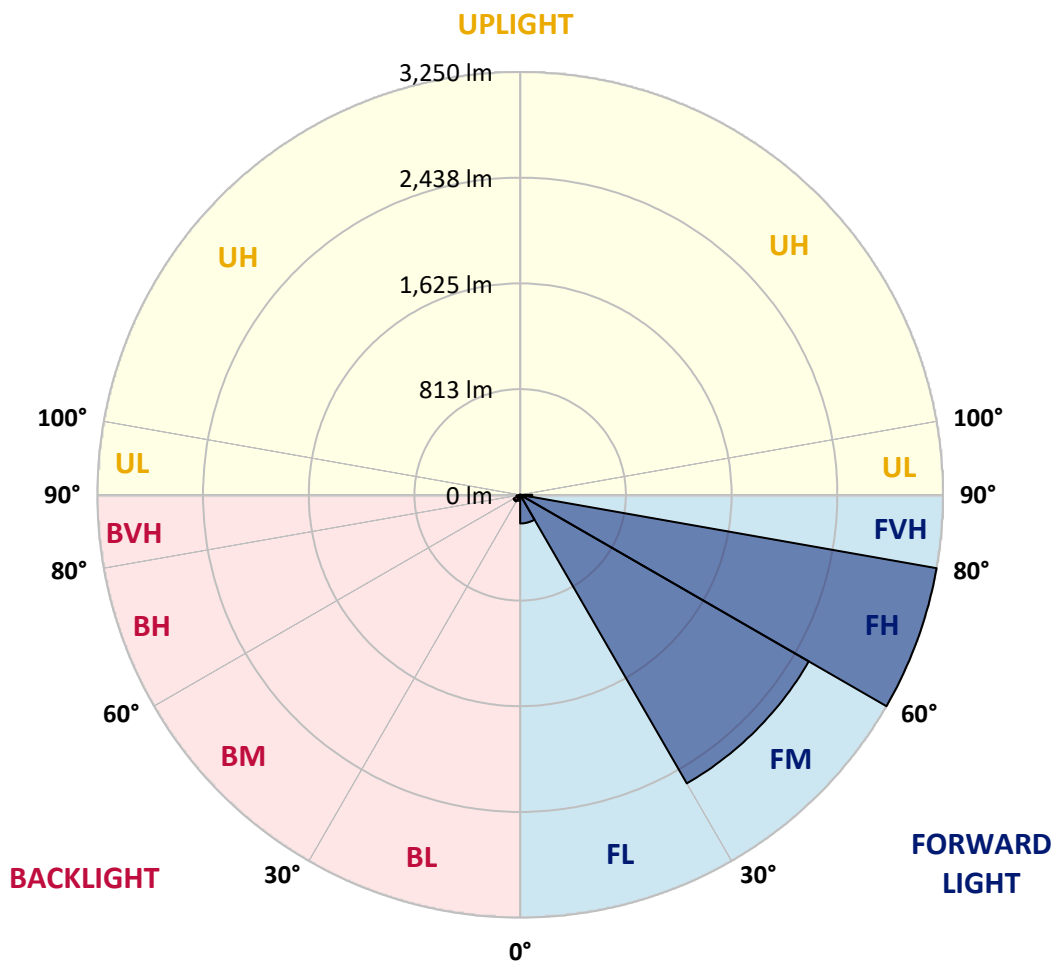
CATALOG NUMBER: ICM-F05-LED-E1-T4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	220.5	3.5			
FM	(30°-60°)	2561.6	40.9			
FH	(60°-80°)	3250.4	51.9			G2/5000
FVH	(80°-90°)	93.0	1.5			G1/100
BL	(0°-30°)	46.4	0.7	B0/110		
BM	(30°-60°)	58.9	0.9	B0/220		
BH	(60°-80°)	28.8	0.5	B0/110		G0/110
BVH	(80°-90°)	8.0	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





REPORT NUMBER: P181562
 CATALOG NUMBER: ICM-F05-LED-E1-T4-HSS-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	156.7	156.7	156.7	156.7	156.7	156.7	156.7	156.7	156.7	156.7	156.7
2.5°	169.6	169.6	169.6	169.6	168.6	167.4	166.3	165.3	164.2	164.2	163.1
5°	192.3	193.4	192.3	191.2	189.0	188.0	184.7	182.5	179.3	178.2	175.0
7.5°	223.6	222.5	223.6	220.4	216.0	215.0	210.6	205.2	200.9	194.4	190.1
10°	268.9	267.9	268.9	262.5	256.0	250.6	243.1	236.6	226.9	219.3	210.6
12.5°	341.3	341.3	339.2	330.5	321.9	310.0	298.1	284.1	266.8	251.7	237.7
15°	452.7	447.2	437.5	432.1	416.9	398.6	385.7	357.6	332.7	308.9	280.8
17.5°	586.5	575.7	568.2	556.3	536.8	513.1	491.5	450.4	425.6	386.7	346.8
20°	739.9	727.0	724.8	706.4	686.0	660.0	628.7	580.1	538.0	489.3	433.2
22.5°	896.6	898.7	890.1	877.1	856.7	826.3	777.8	733.5	681.6	620.0	547.6
25°	1071.5	1070.5	1062.9	1047.8	1032.7	994.9	956.0	913.9	852.3	773.4	687.0
27.5°	1235.7	1234.7	1216.3	1217.4	1188.2	1174.2	1136.4	1091.0	1016.5	950.6	856.7
30°	1407.5	1396.8	1384.8	1376.2	1355.6	1330.8	1311.4	1257.4	1201.2	1123.4	1046.7
32.5°	1581.4	1569.6	1572.8	1562.0	1545.8	1520.9	1491.8	1447.5	1387.0	1311.4	1240.1
35°	1794.2	1788.8	1780.2	1783.5	1780.2	1761.9	1737.0	1678.6	1612.8	1540.4	1466.9
37.5°	1951.9	1946.5	1951.9	1974.6	1980.0	1991.9	1973.6	1944.4	1896.8	1818.0	1741.3
40°	2097.8	2098.9	2123.7	2151.8	2171.3	2210.2	2216.6	2204.8	2166.9	2094.5	1994.1
42.5°	2228.5	2244.7	2267.4	2313.8	2355.9	2411.1	2452.1	2458.6	2430.5	2383.0	2281.4
45°	2374.3	2388.4	2424.0	2479.1	2537.4	2605.5	2671.4	2706.0	2703.7	2670.3	2561.2
47.5°	2537.4	2555.8	2594.7	2640.0	2717.8	2794.5	2879.8	2941.4	2967.4	2920.9	2815.1
50°	2735.1	2742.7	2776.2	2834.5	2905.8	2994.3	3087.3	3176.9	3227.6	3184.5	3075.4
52.5°	2969.5	2971.6	3003.0	3057.0	3114.3	3211.5	3302.3	3426.4	3492.3	3468.6	3337.9
55°	3291.5	3285.0	3306.5	3353.0	3399.5	3493.4	3584.1	3724.6	3820.8	3822.9	3683.6
57.5°	3731.1	3715.9	3730.0	3766.7	3818.5	3906.1	4020.6	4144.8	4273.3	4264.7	4150.2
60°	4343.6	4338.2	4364.1	4425.6	4514.3	4605.0	4734.6	4902.0	5015.5	5054.4	4934.4
62.5°	4750.8	4765.9	4825.3	4920.4	5091.1	5279.0	5519.9	5775.9	5991.9	6089.2	5923.9
65°	4575.8	4600.7	4693.5	4834.0	5059.8	5341.7	5661.4	6081.6	6454.3	6602.3	6430.6
66°	4427.8	4467.7	4555.3	4704.3	4939.8	5247.7	5581.5	6046.0	6465.1	6631.5	6456.4
67.5°	4171.8	4199.8	4299.3	4464.5	4717.3	5021.9	5382.7	5873.2	6346.3	6522.4	6348.4
70°	3650.1	3660.9	3741.9	3882.3	4077.8	4390.0	4717.3	5189.3	5624.7	5872.0	5681.9
72.5°	2716.8	2731.8	2865.8	3121.8	3375.6	3552.9	3746.2	4124.3	4405.1	4636.3	4599.6
75°	1307.1	1313.6	1403.2	1776.9	2271.7	2483.5	2662.7	2955.5	3062.4	3255.7	3226.6
77.5°	828.6	842.6	900.9	991.6	1272.5	1524.2	1665.7	1833.1	1864.5	2027.5	1932.5
80°	227.9	264.7	323.0	475.3	815.5	972.2	1035.9	1029.4	1035.9	986.2	953.9
82.5°	46.4	45.4	55.1	85.3	359.7	566.0	611.4	520.7	517.4	498.0	514.1
85°	11.9	10.8	12.9	27.0	61.6	167.4	210.6	117.8	89.7	85.3	75.6
87.5°	3.3	3.3	3.3	5.4	6.5	8.7	11.9	8.7	6.5	6.5	6.5
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: P181562

CATALOG NUMBER: ICM-F05-LED-E1-T4-HSS-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	156.7	156.7	156.7	156.7	156.7	156.7	156.7	156.7	156.7	156.7	156.7
2.5°	162.0	162.0	160.9	159.9	159.9	158.8	157.7	156.7	155.5	154.5	153.4
5°	171.7	169.6	166.3	164.2	162.0	158.8	156.7	154.5	152.3	151.3	149.0
7.5°	184.7	179.3	175.0	168.6	164.2	159.9	155.5	152.3	149.0	146.9	144.7
10°	200.9	192.3	183.6	175.0	167.4	160.9	154.5	149.0	145.9	142.6	140.5
12.5°	221.5	208.5	196.6	183.6	171.7	162.0	153.4	146.9	142.6	139.3	136.1
15°	254.9	234.4	213.9	194.4	179.3	164.2	152.3	144.7	139.3	136.1	132.8
17.5°	307.8	271.2	238.7	211.7	186.9	167.4	152.3	142.6	136.1	131.8	128.6
20°	384.6	324.1	272.2	233.3	200.9	172.8	152.3	139.3	132.8	127.4	124.2
22.5°	475.3	399.7	328.4	263.5	217.1	180.4	152.3	136.1	128.6	124.2	119.9
25°	608.2	507.7	410.5	319.7	244.1	192.3	155.5	134.0	125.3	119.9	115.6
27.5°	763.7	642.7	521.8	394.2	285.2	209.6	159.9	131.8	122.0	115.6	111.3
30°	940.8	806.9	658.9	493.7	339.2	232.3	167.4	130.7	117.8	111.3	105.9
32.5°	1133.1	991.6	829.6	621.1	419.2	266.8	177.1	129.6	113.4	105.9	99.3
35°	1362.1	1230.3	1032.7	800.5	543.4	326.2	198.8	131.8	109.1	100.5	92.9
37.5°	1612.8	1472.4	1262.8	990.5	666.5	393.2	215.0	128.6	101.6	92.9	85.3
40°	1865.5	1704.6	1491.8	1190.4	823.2	475.3	235.4	125.3	94.0	85.3	77.8
42.5°	2111.8	1942.2	1711.1	1395.6	988.4	572.5	261.4	125.3	88.6	77.8	70.2
45°	2370.0	2165.9	1913.0	1592.2	1152.6	683.8	298.1	124.2	82.1	71.3	62.7
47.5°	2614.2	2372.2	2081.6	1765.0	1328.7	805.9	340.3	125.3	76.7	64.8	57.2
50°	2845.3	2567.6	2254.4	1919.5	1497.2	937.6	392.1	126.4	71.3	59.4	51.8
52.5°	3098.1	2790.2	2440.2	2078.3	1663.5	1070.5	452.7	128.6	65.9	54.0	47.5
55°	3411.4	3070.0	2669.2	2272.8	1839.6	1204.5	511.0	130.7	60.5	49.7	43.2
57.5°	3862.8	3474.0	3040.9	2564.5	2072.9	1356.8	571.4	136.1	56.2	46.4	40.0
60°	4597.4	4134.0	3633.9	3072.1	2421.9	1563.1	658.9	148.0	50.8	42.1	37.8
62.5°	5481.1	4923.7	4287.4	3605.8	2750.2	1702.4	717.3	160.9	46.4	38.9	35.6
65°	5926.1	5223.9	4490.4	3754.8	2792.4	1661.4	693.5	156.7	41.0	34.6	30.2
66°	5939.0	5207.8	4462.4	3722.4	2749.1	1611.6	670.8	154.5	40.0	33.5	28.1
67.5°	5815.8	5068.4	4313.3	3575.6	2621.7	1515.5	629.8	146.9	36.7	30.2	24.8
70°	5207.8	4479.7	3787.3	3105.6	2255.5	1276.8	528.2	129.6	32.4	27.0	22.7
72.5°	4151.3	3558.3	2974.9	2443.5	1753.2	958.1	416.9	105.9	28.1	23.7	19.4
75°	2899.3	2412.1	1968.2	1589.0	1101.9	573.6	270.0	74.5	23.7	19.4	16.2
77.5°	1618.1	1283.3	970.1	738.9	439.6	179.3	89.7	37.8	20.6	15.2	12.9
80°	823.2	610.3	464.5	342.4	203.1	92.9	45.4	24.8	16.2	11.9	10.8
82.5°	478.5	351.1	279.8	221.5	139.3	70.2	36.7	18.3	10.8	8.7	9.8
85°	107.0	141.5	119.9	101.6	74.5	44.3	26.0	11.9	7.5	7.5	8.7
87.5°	8.7	11.9	10.8	14.0	15.2	14.0	10.8	6.5	5.4	6.5	6.5
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: P181562

CATALOG NUMBER: ICM-F05-LED-E1-T4-HSS-8030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	156.7	156.7	156.7	156.7	156.7	156.7	156.7	156.7	156.7	156.7	156.7
2.5°	152.3	151.3	151.3	150.1	149.0	149.0	149.0	148.0	149.0	149.0	149.0
5°	148.0	146.9	145.9	144.7	143.6	142.6	142.6	141.5	141.5	141.5	142.6
7.5°	143.6	141.5	140.5	138.2	137.2	136.1	136.1	135.1	135.1	135.1	135.1
10°	138.2	136.1	134.0	132.8	131.8	129.6	129.6	128.6	127.4	127.4	127.4
12.5°	134.0	131.8	129.6	127.4	125.3	124.2	123.2	122.0	121.0	121.0	121.0
15°	129.6	126.4	124.2	122.0	119.9	117.8	116.7	115.6	114.5	113.4	113.4
17.5°	125.3	122.0	118.8	116.7	114.5	112.4	111.3	108.0	108.0	107.0	107.0
20°	119.9	116.7	113.4	111.3	109.1	107.0	104.7	102.6	100.5	99.3	99.3
22.5°	115.6	112.4	109.1	105.9	102.6	99.3	97.2	95.1	94.0	92.9	91.8
25°	111.3	107.0	102.6	99.3	96.1	92.9	90.7	88.6	86.4	85.3	85.3
27.5°	105.9	101.6	97.2	92.9	89.7	86.4	84.3	81.0	79.9	78.9	77.8
30°	100.5	95.1	90.7	86.4	83.2	78.9	76.7	74.5	72.4	72.4	71.3
32.5°	94.0	88.6	84.3	79.9	75.6	72.4	70.2	68.1	67.0	64.8	64.8
35°	87.5	82.1	76.7	72.4	69.1	65.9	63.7	61.6	59.4	58.3	58.3
37.5°	79.9	74.5	70.2	65.9	62.7	59.4	57.2	55.1	54.0	52.9	51.8
40°	71.3	65.9	62.7	59.4	56.2	54.0	50.8	48.7	47.5	46.4	45.4
42.5°	63.7	58.3	56.2	54.0	50.8	48.7	45.4	43.2	41.0	40.0	38.9
45°	57.2	52.9	50.8	48.7	45.4	42.1	40.0	37.8	35.6	34.6	34.6
47.5°	50.8	47.5	45.4	43.2	40.0	37.8	34.6	33.5	31.3	31.3	31.3
50°	46.4	43.2	41.0	38.9	36.7	33.5	31.3	30.2	29.2	29.2	30.2
52.5°	43.2	40.0	37.8	35.6	33.5	31.3	29.2	28.1	28.1	29.2	30.2
55°	40.0	36.7	34.6	32.4	30.2	29.2	27.0	27.0	28.1	29.2	30.2
57.5°	37.8	33.5	31.3	30.2	28.1	27.0	27.0	27.0	28.1	29.2	31.3
60°	34.6	30.2	28.1	28.1	26.0	26.0	26.0	27.0	28.1	30.2	31.3
62.5°	30.2	27.0	26.0	26.0	24.8	24.8	26.0	27.0	29.2	30.2	31.3
65°	26.0	23.7	23.7	23.7	23.7	24.8	26.0	27.0	28.1	30.2	31.3
66°	23.7	22.7	22.7	23.7	23.7	24.8	26.0	27.0	28.1	29.2	30.2
67.5°	22.7	21.6	21.6	22.7	23.7	23.7	24.8	27.0	28.1	29.2	29.2
70°	19.4	19.4	19.4	21.6	22.7	23.7	24.8	26.0	27.0	28.1	29.2
72.5°	17.3	17.3	18.3	19.4	21.6	22.7	23.7	24.8	27.0	28.1	28.1
75°	15.2	15.2	17.3	18.3	20.6	21.6	23.7	24.8	26.0	27.0	27.0
77.5°	12.9	14.0	16.2	18.3	19.4	21.6	22.7	23.7	24.8	26.0	26.0
80°	11.9	14.0	16.2	17.3	18.3	19.4	20.6	22.7	23.7	24.8	26.0
82.5°	11.9	12.9	15.2	16.2	17.3	19.4	20.6	21.6	22.7	23.7	24.8
85°	9.8	11.9	12.9	15.2	16.2	18.3	19.4	19.4	20.6	21.6	22.7
87.5°	7.5	8.7	8.7	10.8	11.9	14.0	16.2	16.2	17.3	18.3	19.4
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: P181562

CATALOG NUMBER: ICM-F05-LED-E1-T4-HSS-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	156.7	156.7	156.7	156.7
2.5°	149.0	150.1	150.1	150.1
5°	142.6	142.6	142.6	142.6
7.5°	135.1	135.1	135.1	135.1
10°	127.4	127.4	128.6	127.4
12.5°	121.0	119.9	119.9	119.9
15°	113.4	113.4	112.4	113.4
17.5°	105.9	105.9	104.7	104.7
20°	98.3	98.3	98.3	98.3
22.5°	91.8	90.7	90.7	90.7
25°	84.3	84.3	84.3	84.3
27.5°	77.8	77.8	77.8	77.8
30°	71.3	71.3	70.2	70.2
32.5°	64.8	64.8	64.8	64.8
35°	58.3	58.3	57.2	57.2
37.5°	50.8	50.8	50.8	50.8
40°	44.3	44.3	44.3	44.3
42.5°	38.9	38.9	37.8	37.8
45°	33.5	33.5	33.5	33.5
47.5°	31.3	31.3	31.3	31.3
50°	30.2	31.3	31.3	31.3
52.5°	31.3	31.3	31.3	31.3
55°	31.3	32.4	32.4	32.4
57.5°	31.3	32.4	32.4	33.5
60°	32.4	33.5	33.5	33.5
62.5°	32.4	33.5	33.5	33.5
65°	31.3	32.4	32.4	32.4
66°	31.3	31.3	31.3	32.4
67.5°	30.2	31.3	31.3	31.3
70°	29.2	30.2	30.2	31.3
72.5°	29.2	30.2	30.2	30.2
75°	28.1	28.1	29.2	29.2
77.5°	27.0	27.0	28.1	28.1
80°	26.0	27.0	27.0	27.0
82.5°	24.8	26.0	26.0	26.0
85°	22.7	23.7	23.7	23.7
87.5°	19.4	19.4	20.6	20.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)