

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: P181614

Luminaire Tested: **ICS-F04-LED-E1-T4-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181614
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: ICS-F04-LED-E1-T4-HSS
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (28) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5748.1 lumens
Efficiency: N/A
Efficacy: 56.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

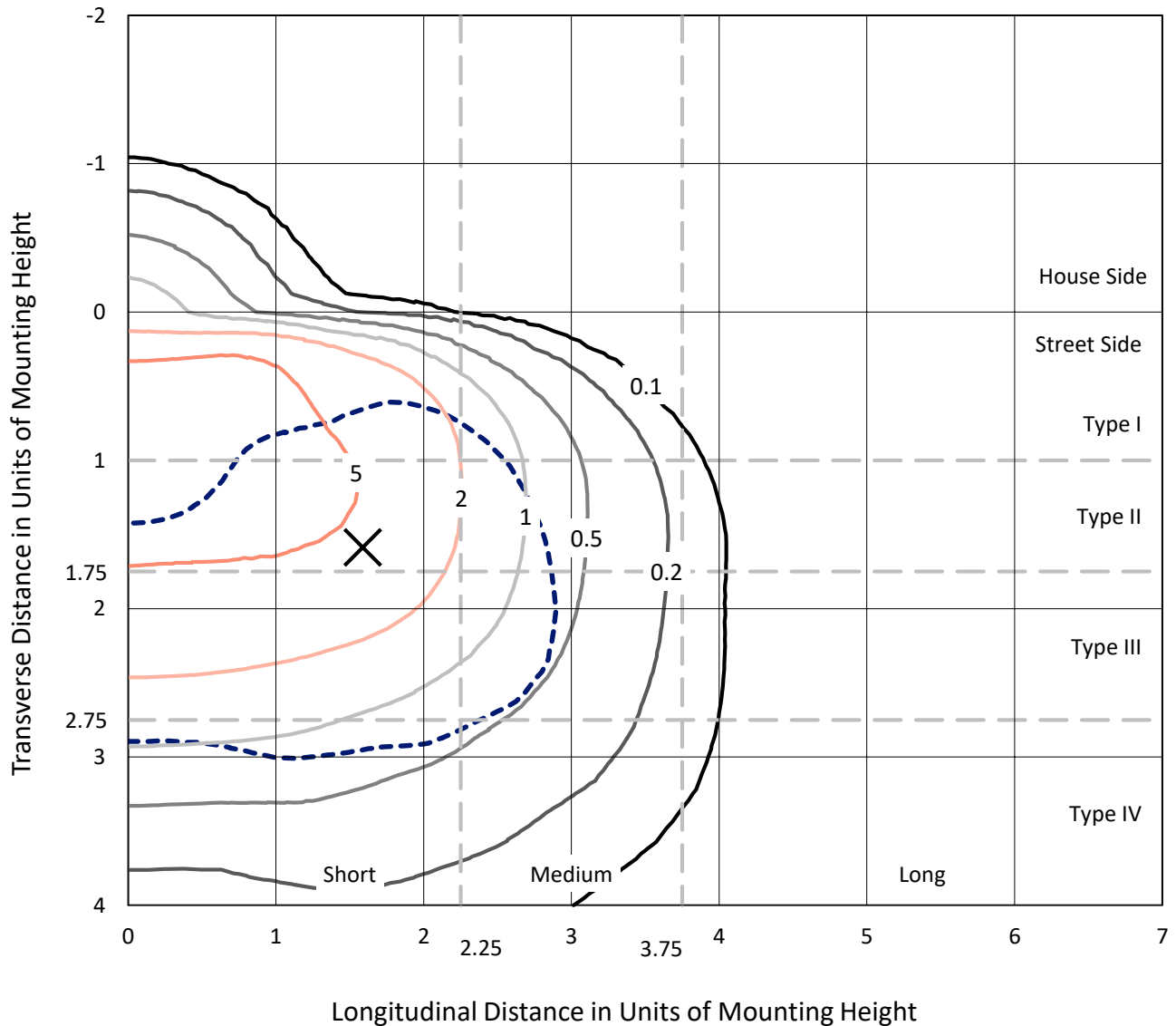
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P181614
 CATALOG NUMBER: ICS-F04-LED-E1-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination

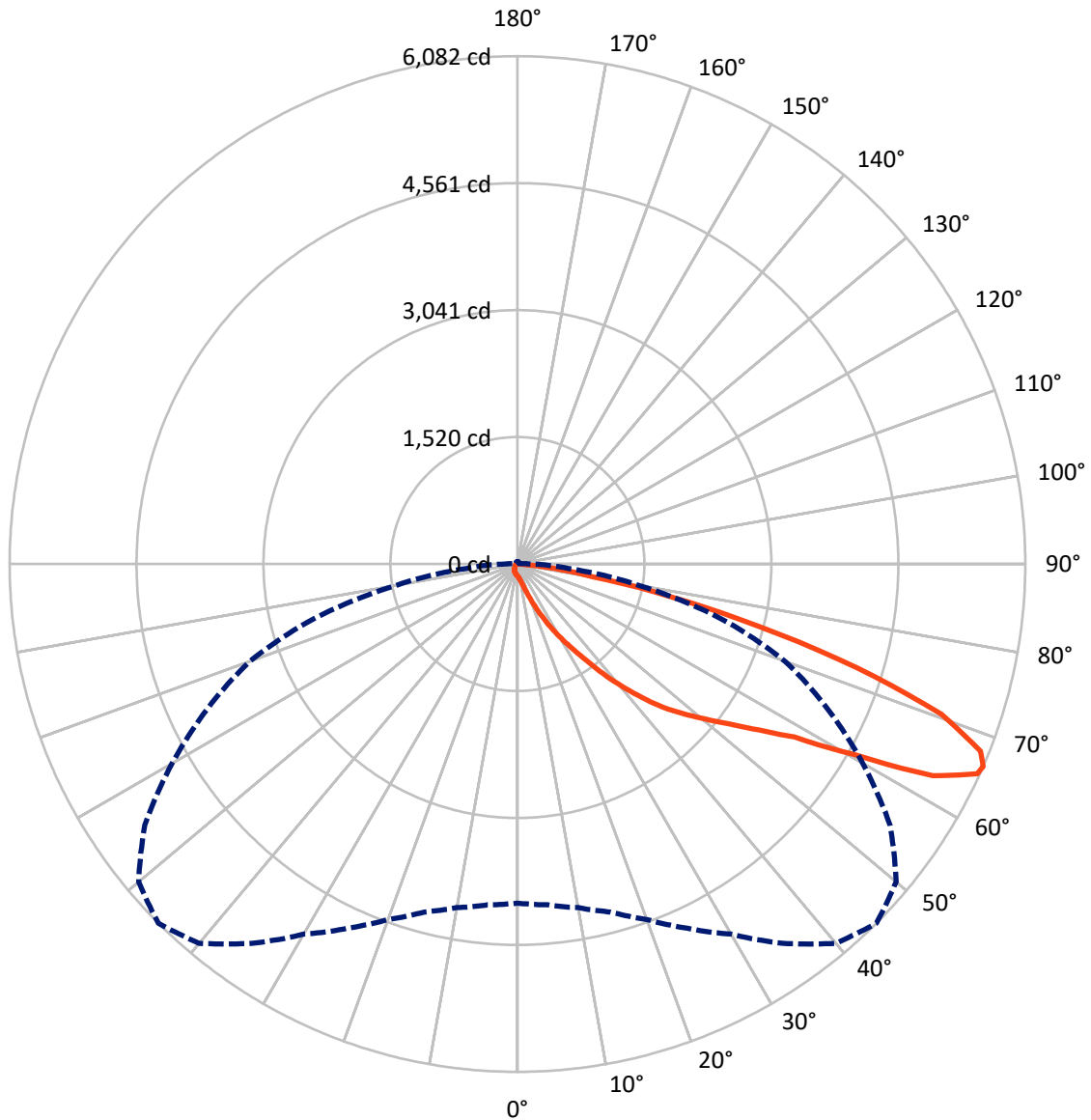
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P181614
CATALOG NUMBER: ICS-F04-LED-E1-T4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P181614

CATALOG NUMBER: ICS-F04-LED-E1-T4-HSS

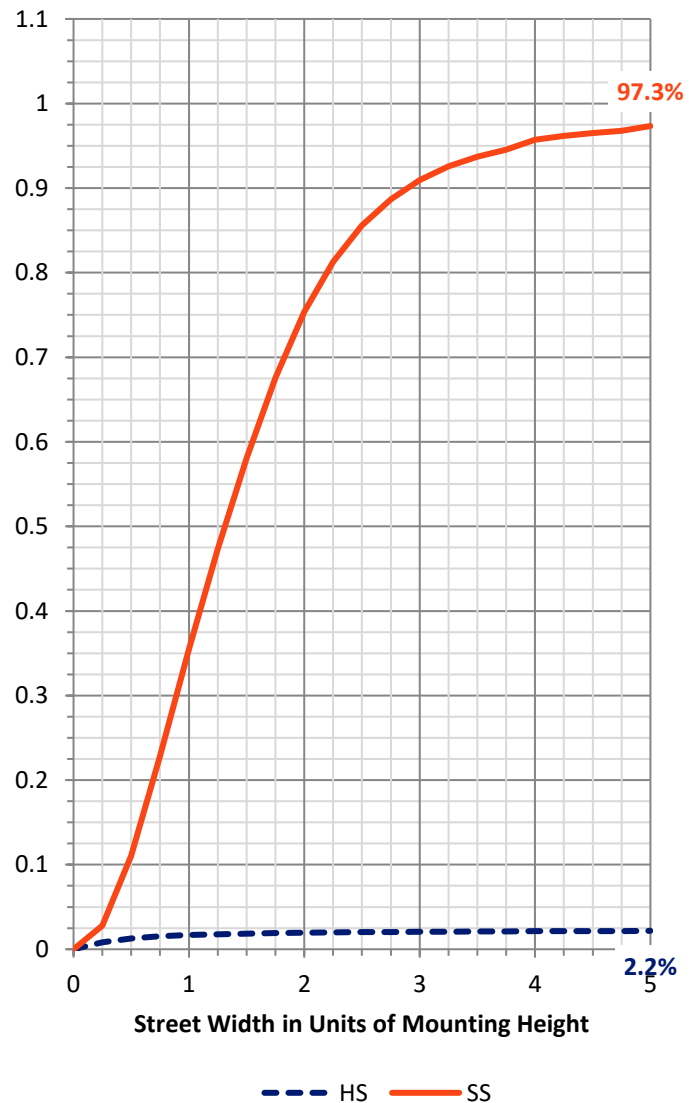
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	130.3	0.0	130.3
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	5617.8	0.0	5617.8
	% Fixture	97.7	0.0	97.7
Total	Lumens	5748.1	0.0	5748.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.5	0.3
10°-20°	58.6	1.0
20°-30°	171.7	3.0
30°-40°	401.1	7.0
40°-50°	753.5	13.1
50°-60°	1248.7	21.7
60°-70°	1982.2	34.5
70°-80°	1025.1	17.8
80°-90°	92.6	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°	5748.1	100.0
0°-180°	5748.1	100.0



REPORT NUMBER: P181614

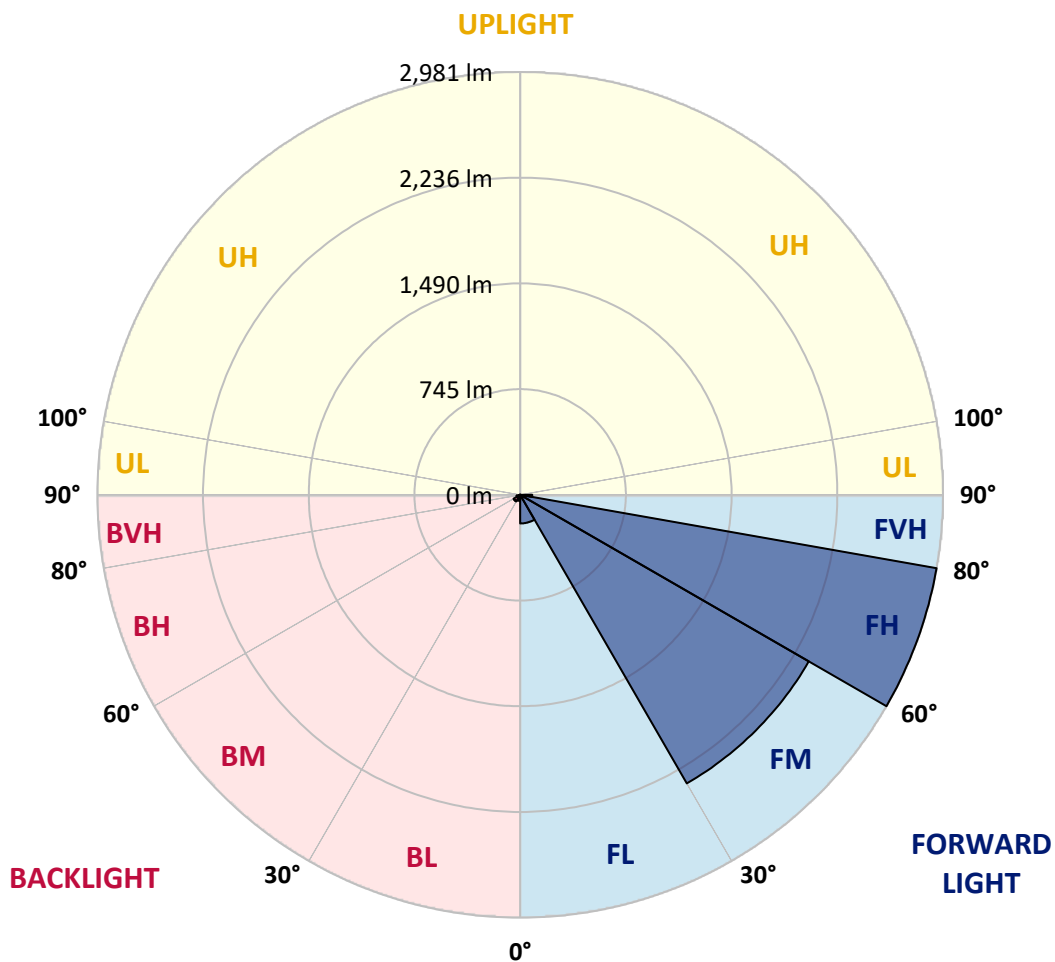
CATALOG NUMBER: ICS-F04-LED-E1-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	202.3	3.5			
FM	(30°-60°)	2349.2	40.9			
FH	(60°-80°)	2981.0	51.9			G2/5000
FVH	(80°-90°)	85.3	1.5			G1/100
BL	(0°-30°)	42.5	0.7	B0/110		
BM	(30°-60°)	54.0	0.9	B0/220		
BH	(60°-80°)	26.4	0.5	B0/110		G0/110
BVH	(80°-90°)	7.3	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-G2

Type IV Short





REPORT NUMBER: P181614

CATALOG NUMBER: ICS-F04-LED-E1-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	143.6	143.6	143.6	143.6	143.6	143.6	143.6	143.6	143.6	143.6	143.6
2.5°	155.5	155.5	155.5	155.5	154.5	153.6	152.6	151.6	150.6	150.6	149.6
5°	176.3	177.3	176.3	175.4	173.4	172.4	169.4	167.4	164.5	163.5	160.5
7.5°	205.1	204.1	205.1	202.1	198.1	197.1	193.2	188.2	184.3	178.3	174.4
10°	246.7	245.7	246.7	240.7	234.8	229.8	222.9	217.0	208.0	201.1	193.2
12.5°	313.1	313.1	311.1	303.1	295.2	284.3	273.4	260.5	244.7	230.8	218.0
15°	415.1	410.1	401.2	396.3	382.4	365.6	353.7	327.9	305.1	283.3	257.6
17.5°	537.9	528.0	521.1	510.2	492.4	470.6	450.8	413.1	390.3	354.7	318.0
20°	678.6	666.7	664.7	647.9	629.1	605.3	576.6	532.0	493.4	448.8	397.3
22.5°	822.3	824.2	816.3	804.4	785.6	757.9	713.3	672.7	625.1	568.7	502.3
25°	982.8	981.8	974.8	961.0	947.1	912.4	876.8	838.1	781.6	709.3	630.1
27.5°	1133.3	1132.4	1115.5	1116.5	1089.8	1076.9	1042.2	1000.6	932.2	871.8	785.6
30°	1290.9	1281.0	1270.1	1262.1	1243.3	1220.5	1202.7	1153.2	1101.6	1030.3	960.0
32.5°	1450.4	1439.5	1442.4	1432.5	1417.7	1394.9	1368.1	1327.5	1272.0	1202.7	1137.3
35°	1645.5	1640.6	1632.6	1635.6	1632.6	1615.8	1593.0	1539.5	1479.1	1412.7	1345.3
37.5°	1790.2	1785.2	1790.2	1811.0	1815.9	1826.8	1810.0	1783.2	1739.6	1667.3	1597.0
40°	1923.9	1924.9	1947.7	1973.4	1991.3	2026.9	2032.9	2022.0	1987.3	1920.9	1828.8
42.5°	2043.8	2058.6	2079.4	2122.0	2160.7	2211.2	2248.9	2254.8	2229.0	2185.4	2092.3
45°	2177.5	2190.4	2223.1	2273.6	2327.1	2389.5	2450.0	2481.7	2479.7	2449.0	2348.9
47.5°	2327.1	2344.0	2379.6	2421.2	2492.6	2562.9	2641.2	2697.6	2721.4	2678.8	2581.7
50°	2508.4	2515.3	2546.1	2599.6	2664.9	2746.2	2831.4	2913.6	2960.2	2920.5	2820.5
52.5°	2723.4	2725.4	2754.1	2803.6	2856.1	2945.3	3028.5	3142.4	3202.9	3181.1	3061.2
55°	3018.6	3012.7	3032.5	3075.1	3117.7	3203.9	3287.1	3415.9	3504.0	3506.0	3378.2
57.5°	3421.8	3408.0	3420.8	3454.5	3502.1	3582.3	3687.3	3801.3	3919.1	3911.2	3806.2
60°	3983.5	3978.6	4002.4	4058.8	4140.1	4223.3	4342.2	4495.7	4599.7	4635.4	4525.4
62.5°	4357.0	4370.9	4425.4	4512.6	4669.1	4841.5	5062.4	5297.2	5495.3	5584.5	5432.9
65°	4196.5	4219.3	4304.5	4433.3	4640.4	4898.9	5192.2	5577.5	5919.3	6055.1	5897.5
66°	4060.8	4097.5	4177.7	4314.4	4530.4	4812.7	5118.9	5544.9	5929.2	6081.8	5921.3
67.5°	3826.0	3851.8	3942.9	4094.5	4326.3	4605.7	4936.6	5386.3	5820.3	5981.7	5822.2
70°	3347.5	3357.4	3431.7	3560.5	3739.8	4026.1	4326.3	4759.2	5158.5	5385.4	5211.0
72.5°	2491.6	2505.4	2628.3	2863.1	3095.9	3258.4	3435.7	3782.4	4040.0	4252.0	4218.3
75°	1198.7	1204.7	1286.9	1629.7	2083.4	2277.6	2442.0	2710.5	2808.6	2985.9	2959.2
77.5°	759.9	772.7	826.2	909.4	1167.0	1397.9	1527.6	1681.2	1709.9	1859.5	1772.3
80°	209.0	242.7	296.2	435.9	748.0	891.6	950.1	944.1	950.1	904.5	874.8
82.5°	42.6	41.6	50.5	78.3	329.9	519.1	560.7	477.5	474.5	456.7	471.6
85°	10.9	9.9	11.9	24.8	56.5	153.6	193.2	108.0	82.2	78.3	69.3
87.5°	3.0	3.0	3.0	5.0	5.9	7.9	10.9	7.9	5.9	5.9	5.9
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: P181614

CATALOG NUMBER: ICS-F04-LED-E1-T4-HSS

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	143.6	143.6	143.6	143.6	143.6	143.6	143.6	143.6	143.6	143.6	143.6
2.5°	148.6	148.6	147.6	146.6	146.6	145.6	144.6	143.6	142.7	141.7	140.7
5°	157.5	155.5	152.6	150.6	148.6	145.6	143.6	141.7	139.7	138.7	136.7
7.5°	169.4	164.5	160.5	154.5	150.6	146.6	142.7	139.7	136.7	134.7	132.8
10°	184.3	176.3	168.4	160.5	153.6	147.6	141.7	136.7	133.7	130.8	128.8
12.5°	203.1	191.2	180.3	168.4	157.5	148.6	140.7	134.7	130.8	127.8	124.8
15°	233.8	215.0	196.2	178.3	164.5	150.6	139.7	132.8	127.8	124.8	121.9
17.5°	282.3	248.7	218.9	194.2	171.4	153.6	139.7	130.8	124.8	120.9	117.9
20°	352.7	297.2	249.7	214.0	184.3	158.5	139.7	127.8	121.9	116.9	113.9
22.5°	435.9	366.6	301.2	241.7	199.1	165.4	139.7	124.8	117.9	113.9	110.0
25°	557.8	465.6	376.5	293.2	223.9	176.3	142.7	122.8	114.9	110.0	106.0
27.5°	700.4	589.5	478.5	361.6	261.5	192.2	146.6	120.9	111.9	106.0	102.0
30°	862.9	740.0	604.3	452.7	311.1	213.0	153.6	119.9	108.0	102.0	97.1
32.5°	1039.2	909.4	760.8	569.6	384.4	244.7	162.5	118.9	104.0	97.1	91.1
35°	1249.3	1128.4	947.1	734.1	498.3	299.2	182.3	120.9	100.1	92.1	85.2
37.5°	1479.1	1350.3	1158.1	908.5	611.3	360.6	197.1	117.9	93.1	85.2	78.3
40°	1710.9	1563.3	1368.1	1091.7	754.9	435.9	216.0	114.9	86.2	78.3	71.3
42.5°	1936.8	1781.2	1569.2	1280.0	906.5	525.1	239.7	114.9	81.2	71.3	64.4
45°	2173.6	1986.3	1754.5	1460.3	1057.1	627.1	273.4	113.9	75.3	65.4	57.5
47.5°	2397.5	2175.5	1909.0	1618.8	1218.5	739.1	312.1	114.9	70.3	59.4	52.5
50°	2609.5	2354.9	2067.6	1760.4	1373.1	859.9	359.6	115.9	65.4	54.5	47.6
52.5°	2841.3	2558.9	2238.0	1906.1	1525.7	981.8	415.1	117.9	60.4	49.5	43.6
55°	3128.6	2815.5	2448.0	2084.4	1687.1	1104.6	468.6	119.9	55.5	45.6	39.6
57.5°	3542.7	3186.0	2788.8	2351.9	1901.1	1244.3	524.1	124.8	51.5	42.6	36.7
60°	4216.4	3791.3	3332.7	2817.5	2221.1	1433.5	604.3	135.7	46.6	38.6	34.7
62.5°	5026.7	4515.5	3932.0	3306.9	2522.3	1561.3	657.8	147.6	42.6	35.7	32.7
65°	5434.9	4790.9	4118.3	3443.6	2560.9	1523.7	636.0	143.6	37.6	31.7	27.7
66°	5446.8	4776.1	4092.5	3413.9	2521.3	1478.1	615.2	141.7	36.7	30.7	25.8
67.5°	5333.8	4648.3	3955.8	3279.2	2404.4	1389.9	577.6	134.7	33.7	27.7	22.8
70°	4776.1	4108.4	3473.3	2848.2	2068.5	1171.0	484.4	118.9	29.7	24.8	20.8
72.5°	3807.2	3263.3	2728.3	2240.9	1607.9	878.7	382.4	97.1	25.8	21.8	17.8
75°	2659.0	2212.2	1805.0	1457.3	1010.5	526.1	247.7	68.4	21.8	17.8	14.9
77.5°	1484.0	1176.9	889.6	677.6	403.2	164.5	82.2	34.7	18.8	13.9	11.9
80°	754.9	559.7	426.0	314.0	186.2	85.2	41.6	22.8	14.9	10.9	9.9
82.5°	438.9	322.0	256.6	203.1	127.8	64.4	33.7	16.8	9.9	7.9	8.9
85°	98.1	129.8	110.0	93.1	68.4	40.6	23.8	10.9	6.9	6.9	7.9
87.5°	7.9	10.9	9.9	12.9	13.9	12.9	9.9	5.9	5.0	5.9	5.9
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: P181614

CATALOG NUMBER: ICS-F04-LED-E1-T4-HSS

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	143.6	143.6	143.6	143.6	143.6	143.6	143.6	143.6	143.6	143.6	143.6
2.5°	139.7	138.7	138.7	137.7	136.7	136.7	136.7	135.7	136.7	136.7	136.7
5°	135.7	134.7	133.7	132.8	131.8	130.8	130.8	129.8	129.8	129.8	130.8
7.5°	131.8	129.8	128.8	126.8	125.8	124.8	124.8	123.8	123.8	123.8	123.8
10°	126.8	124.8	122.8	121.9	120.9	118.9	118.9	117.9	116.9	116.9	116.9
12.5°	122.8	120.9	118.9	116.9	114.9	113.9	112.9	111.9	111.0	111.0	111.0
15°	118.9	115.9	113.9	111.9	110.0	108.0	107.0	106.0	105.0	104.0	104.0
17.5°	114.9	111.9	109.0	107.0	105.0	103.0	102.0	99.1	99.1	98.1	98.1
20°	110.0	107.0	104.0	102.0	100.1	98.1	96.1	94.1	92.1	91.1	91.1
22.5°	106.0	103.0	100.1	97.1	94.1	91.1	89.2	87.2	86.2	85.2	84.2
25°	102.0	98.1	94.1	91.1	88.2	85.2	83.2	81.2	79.3	78.3	78.3
27.5°	97.1	93.1	89.2	85.2	82.2	79.3	77.3	74.3	73.3	72.3	71.3
30°	92.1	87.2	83.2	79.3	76.3	72.3	70.3	68.4	66.4	66.4	65.4
32.5°	86.2	81.2	77.3	73.3	69.3	66.4	64.4	62.4	61.4	59.4	59.4
35°	80.2	75.3	70.3	66.4	63.4	60.4	58.5	56.5	54.5	53.5	53.5
37.5°	73.3	68.4	64.4	60.4	57.5	54.5	52.5	50.5	49.5	48.5	47.6
40°	65.4	60.4	57.5	54.5	51.5	49.5	46.6	44.6	43.6	42.6	41.6
42.5°	58.5	53.5	51.5	49.5	46.6	44.6	41.6	39.6	37.6	36.7	35.7
45°	52.5	48.5	46.6	44.6	41.6	38.6	36.7	34.7	32.7	31.7	31.7
47.5°	46.6	43.6	41.6	39.6	36.7	34.7	31.7	30.7	28.7	28.7	28.7
50°	42.6	39.6	37.6	35.7	33.7	30.7	28.7	27.7	26.7	26.7	27.7
52.5°	39.6	36.7	34.7	32.7	30.7	28.7	26.7	25.8	25.8	26.7	27.7
55°	36.7	33.7	31.7	29.7	27.7	26.7	24.8	24.8	25.8	26.7	27.7
57.5°	34.7	30.7	28.7	27.7	25.8	24.8	24.8	24.8	25.8	26.7	28.7
60°	31.7	27.7	25.8	25.8	23.8	23.8	23.8	24.8	25.8	27.7	28.7
62.5°	27.7	24.8	23.8	23.8	22.8	22.8	23.8	24.8	26.7	27.7	28.7
65°	23.8	21.8	21.8	21.8	21.8	22.8	23.8	24.8	25.8	27.7	28.7
66°	21.8	20.8	20.8	21.8	21.8	22.8	23.8	24.8	25.8	26.7	27.7
67.5°	20.8	19.8	19.8	20.8	21.8	21.8	22.8	24.8	25.8	26.7	26.7
70°	17.8	17.8	17.8	19.8	20.8	21.8	22.8	23.8	24.8	25.8	26.7
72.5°	15.9	15.9	16.8	17.8	19.8	20.8	21.8	22.8	24.8	25.8	25.8
75°	13.9	13.9	15.9	16.8	18.8	19.8	21.8	22.8	23.8	24.8	24.8
77.5°	11.9	12.9	14.9	16.8	17.8	19.8	20.8	21.8	22.8	23.8	23.8
80°	10.9	12.9	14.9	15.9	16.8	17.8	18.8	20.8	21.8	22.8	23.8
82.5°	10.9	11.9	13.9	14.9	15.9	17.8	18.8	19.8	20.8	21.8	22.8
85°	8.9	10.9	11.9	13.9	14.9	16.8	17.8	17.8	18.8	19.8	20.8
87.5°	6.9	7.9	7.9	9.9	10.9	12.9	14.9	14.9	15.9	16.8	17.8
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: P181614

CATALOG NUMBER: ICS-F04-LED-E1-T4-HSS

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	143.6	143.6	143.6	143.6
2.5°	136.7	137.7	137.7	137.7
5°	130.8	130.8	130.8	130.8
7.5°	123.8	123.8	123.8	123.8
10°	116.9	116.9	117.9	116.9
12.5°	111.0	110.0	110.0	110.0
15°	104.0	104.0	103.0	104.0
17.5°	97.1	97.1	96.1	96.1
20°	90.2	90.2	90.2	90.2
22.5°	84.2	83.2	83.2	83.2
25°	77.3	77.3	77.3	77.3
27.5°	71.3	71.3	71.3	71.3
30°	65.4	65.4	64.4	64.4
32.5°	59.4	59.4	59.4	59.4
35°	53.5	53.5	52.5	52.5
37.5°	46.6	46.6	46.6	46.6
40°	40.6	40.6	40.6	40.6
42.5°	35.7	35.7	34.7	34.7
45°	30.7	30.7	30.7	30.7
47.5°	28.7	28.7	28.7	28.7
50°	27.7	28.7	28.7	28.7
52.5°	28.7	28.7	28.7	28.7
55°	28.7	29.7	29.7	29.7
57.5°	28.7	29.7	29.7	30.7
60°	29.7	30.7	30.7	30.7
62.5°	29.7	30.7	30.7	30.7
65°	28.7	29.7	29.7	29.7
66°	28.7	28.7	28.7	29.7
67.5°	27.7	28.7	28.7	28.7
70°	26.7	27.7	27.7	28.7
72.5°	26.7	27.7	27.7	27.7
75°	25.8	25.8	26.7	26.7
77.5°	24.8	24.8	25.8	25.8
80°	23.8	24.8	24.8	24.8
82.5°	22.8	23.8	23.8	23.8
85°	20.8	21.8	21.8	21.8
87.5°	17.8	17.8	18.8	18.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)