

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: P180833

Luminaire Tested: **ICS-F02-LED-E1-SL4-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180833
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F02-LED-E1-SL4-HSS
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3023.8 lumens
Efficiency: N/A
Efficacy: 55.0 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

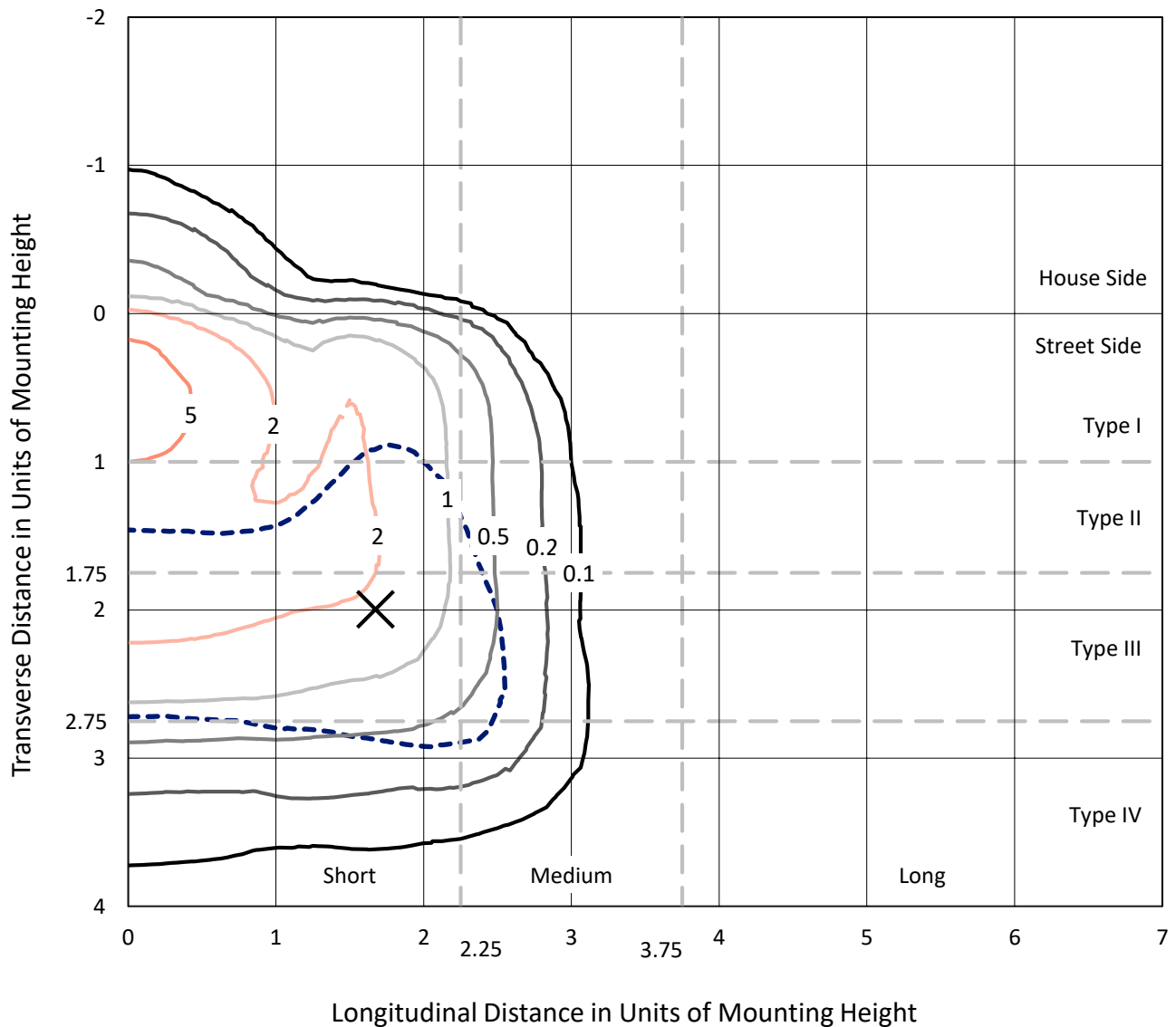
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

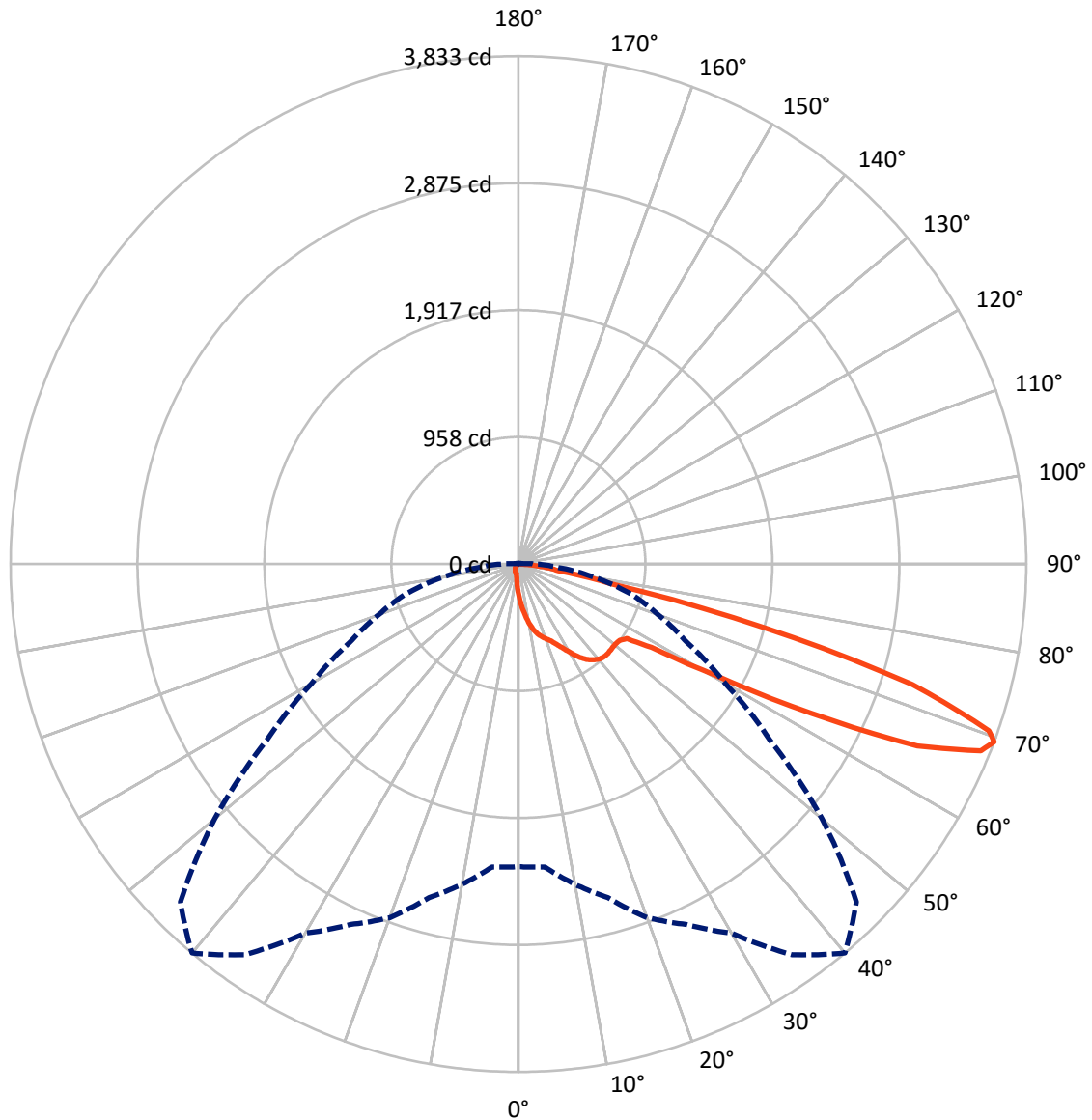


Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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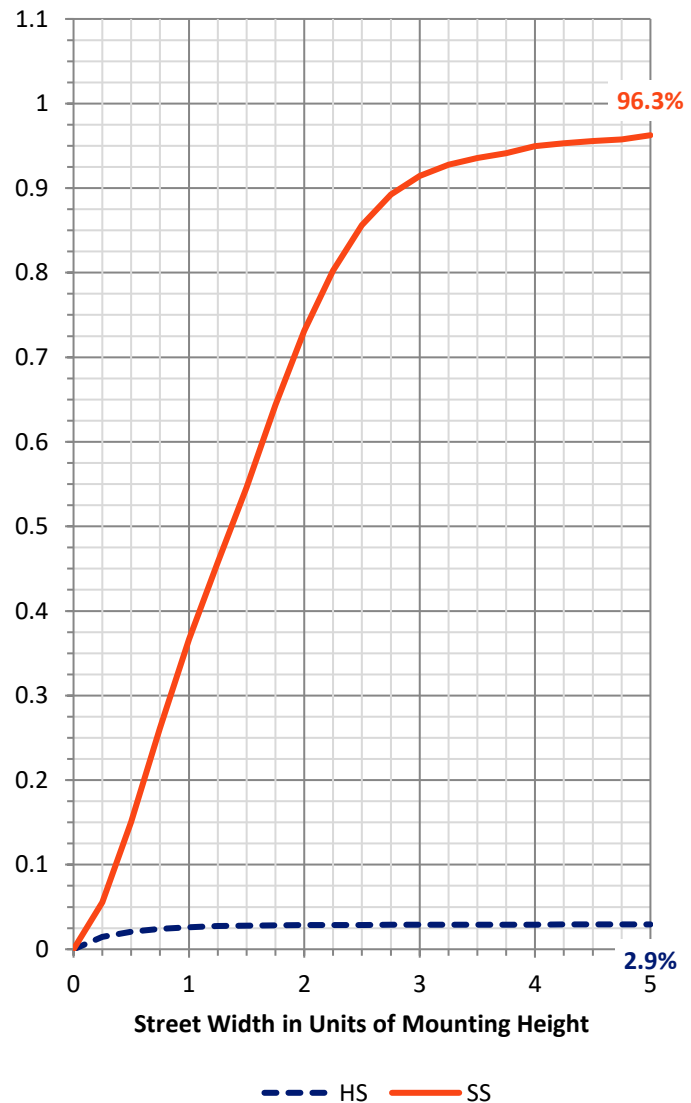
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	90.1	0.0	90.1
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	2933.7	0.0	2933.7
	% Fixture	97.0	0.0	97.0
Total	Lumens	3023.8	0.0	3023.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.5	0.8
10°-20°	80.9	2.7
20°-30°	154.9	5.1
30°-40°	257.6	8.5
40°-50°	348.5	11.5
50°-60°	545.1	18.0
60°-70°	1120.7	37.1
70°-80°	450.9	14.9
80°-90°	41.7	1.4
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°	3023.8	100.0
0°-180°	3023.8	100.0



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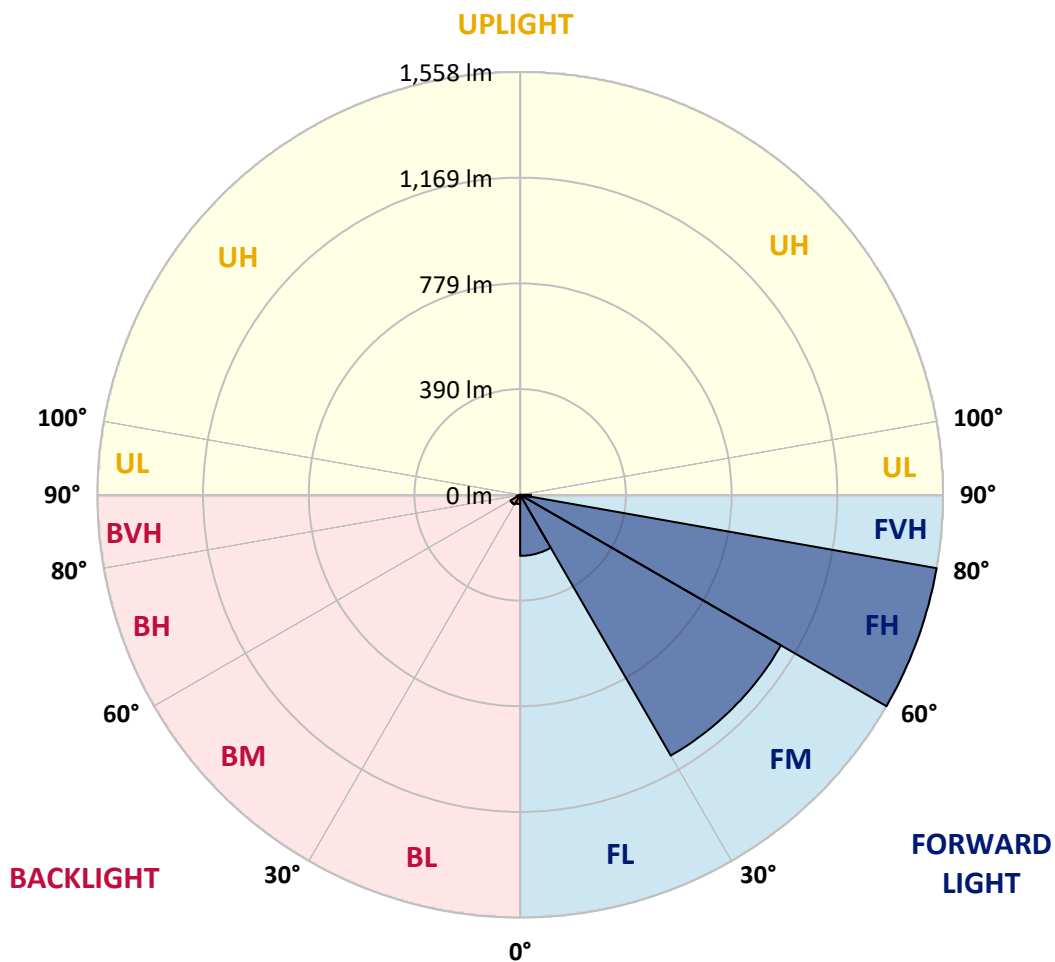
CATALOG NUMBER: ICS-F02-LED-E1-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	225.0	7.4			
FM (30°-60°)	1110.1	36.7			
FH (60°-80°)	1558.5	51.5			G1/1800
FVH (80°-90°)	40.2	1.3			G1/100
BL (0°-30°)	34.2	1.1	B0/110		
BM (30°-60°)	41.1	1.4	B0/220		
BH (60°-80°)	13.1	0.4	B0/110		G0/110
BVH (80°-90°)	1.6	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°	228.4	228.4	228.4	228.4	228.4	228.4	228.4	228.4	228.4	228.4	228.4
2.5°	304.6	301.2	297.2	297.2	292.3	292.3	289.3	281.4	280.4	275.9	271.4
5°	388.8	385.9	380.9	376.5	372.5	365.6	360.6	351.2	340.8	330.9	322.0
7.5°	471.1	469.6	460.7	459.2	452.7	441.3	431.4	417.6	399.7	385.9	369.5
10°	547.4	543.9	541.9	533.5	524.1	511.7	496.3	479.5	458.7	436.9	413.6
12.5°	607.8	605.8	596.9	593.4	583.5	571.1	551.8	530.0	509.2	481.0	453.7
15°	652.9	649.4	643.4	638.0	626.1	615.2	597.4	573.6	548.3	517.6	484.9
17.5°	690.5	684.1	682.6	674.2	661.8	648.9	629.1	607.3	577.6	546.9	511.2
20°	741.0	732.1	729.1	716.8	702.4	684.6	661.8	634.5	603.3	569.6	533.0
22.5°	800.5	794.0	787.6	776.7	758.4	733.1	699.9	670.2	630.6	593.4	553.8
25°	884.7	879.2	868.8	854.0	831.2	801.0	760.8	717.3	670.7	623.1	576.6
27.5°	966.4	961.5	954.0	942.6	916.9	883.7	834.2	778.7	719.7	662.3	610.8
30°	1043.2	1038.7	1031.3	1019.9	997.1	964.4	908.5	849.0	775.7	708.8	646.9
32.5°	1125.9	1124.4	1116.0	1099.7	1079.8	1035.8	974.8	910.9	836.6	759.4	687.0
35°	1219.5	1208.1	1200.2	1183.9	1150.2	1103.1	1031.8	962.0	883.7	804.4	723.7
37.5°	1298.8	1287.9	1278.0	1257.2	1216.1	1156.1	1075.4	998.6	917.9	837.1	754.9
40°	1356.7	1351.3	1339.4	1312.2	1266.1	1194.8	1107.6	1023.9	942.6	861.4	780.2
42.5°	1399.8	1391.4	1378.0	1349.8	1295.3	1214.1	1120.5	1034.3	954.0	876.3	796.5
45°	1415.7	1408.8	1396.4	1365.7	1306.7	1219.5	1120.0	1031.3	954.5	880.7	807.4
47.5°	1406.3	1399.3	1388.4	1359.7	1301.8	1213.1	1111.1	1022.9	949.6	882.2	817.3
50°	1375.1	1371.1	1362.7	1338.4	1286.4	1200.7	1103.1	1018.4	948.6	889.6	831.2
52.5°	1372.1	1369.6	1359.2	1334.9	1281.9	1196.7	1102.1	1020.9	957.0	899.0	841.1
55°	1676.7	1641.6	1562.8	1495.9	1386.0	1255.2	1152.2	1061.0	992.7	936.2	895.6
57.5°	2383.1	2330.6	2227.1	2099.8	1847.1	1599.0	1400.3	1256.7	1185.8	1160.1	1175.4
60°	2714.0	2704.6	2688.2	2627.8	2498.5	2285.0	2047.2	1790.2	1687.1	1678.2	1709.4
62.5°	2871.0	2865.1	2870.0	2862.6	2822.5	2760.0	2691.7	2580.7	2478.7	2412.8	2273.1
65°	2943.3	2947.3	2975.5	2997.8	3002.8	3019.1	3069.1	3207.3	3308.4	3138.5	2750.6
67.5°	2759.5	2782.8	2847.7	2929.0	3024.1	3116.2	3264.8	3556.1	3763.6	3564.0	3013.2
69°	2284.5	2295.9	2454.4	2607.5	2839.8	3002.3	3217.7	3599.6	3833.0	3607.6	2992.4
70°	1798.6	1809.0	1978.9	2186.9	2579.7	2788.8	3070.6	3525.8	3768.1	3549.6	2885.4
72.5°	811.4	796.5	856.4	967.9	1394.9	1726.8	2219.6	2856.6	3108.8	2843.8	2158.7
75°	566.7	560.2	566.7	567.2	633.5	817.3	1031.3	1548.4	1915.0	1652.5	1031.3
77.5°	438.9	434.4	430.0	425.0	432.9	484.9	505.7	549.3	713.3	674.7	393.3
80°	347.2	343.3	354.2	350.7	350.7	356.6	352.7	336.3	305.6	283.3	253.6
82.5°	161.5	162.5	162.5	176.3	212.5	248.2	259.6	243.2	216.0	183.8	148.1
85°	15.4	17.3	29.2	45.1	89.7	101.0	101.5	84.2	84.2	66.4	53.5
87.5°	0.0	0.5	0.5	0.5	4.5	12.4	10.4	3.0	1.5	1.5	2.5
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: ICS-F02-LED-E1-SL4-HSS

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	228.4	228.4	228.4	228.4	228.4	228.4	228.4	228.4	228.4	228.4	228.4
2.5°	263.5	262.0	256.1	250.1	244.7	238.8	233.3	227.9	221.9	217.5	212.0
5°	308.1	297.2	284.8	272.9	261.0	248.7	235.8	224.4	212.5	201.6	191.2
7.5°	353.2	331.9	315.0	293.7	274.4	255.1	237.3	218.9	202.1	186.2	171.4
10°	391.3	365.6	339.3	312.1	284.3	258.6	233.8	212.0	189.7	170.4	152.1
12.5°	422.5	389.8	357.6	323.5	292.3	259.6	228.8	202.6	176.3	154.5	135.7
15°	450.8	413.1	374.5	334.9	295.2	258.1	223.9	191.2	164.5	139.7	118.4
17.5°	473.5	430.5	386.9	342.3	299.7	256.1	217.5	183.3	152.1	126.3	105.5
20°	493.4	448.3	401.2	351.2	302.7	255.6	212.0	173.4	141.2	113.9	93.6
22.5°	511.7	466.6	416.1	362.6	307.1	255.1	207.1	165.9	131.8	104.5	84.2
25°	532.5	484.9	431.9	374.5	315.0	257.1	204.1	160.0	123.3	95.6	76.8
27.5°	555.8	505.7	450.8	389.3	325.4	261.0	203.1	153.6	115.9	87.2	70.8
30°	588.5	530.5	469.6	404.2	334.9	265.5	202.1	149.6	108.5	80.7	64.9
32.5°	617.2	554.8	490.4	419.6	345.3	270.0	201.6	144.1	101.5	74.3	60.4
35°	647.4	577.1	508.2	434.4	354.2	274.9	201.1	140.2	95.1	67.9	56.0
37.5°	673.7	595.9	522.1	447.3	364.1	279.4	201.6	136.7	89.2	62.4	52.0
40°	696.0	615.2	537.4	459.2	374.5	286.3	202.1	133.2	83.2	57.5	48.5
42.5°	715.8	633.5	553.8	472.6	386.4	294.2	205.1	130.3	78.3	53.0	45.1
45°	731.1	650.4	571.6	491.4	405.7	307.1	210.5	128.3	73.3	49.0	42.1
47.5°	747.0	675.2	601.8	521.1	433.9	327.4	219.9	127.8	69.3	46.1	39.6
50°	768.8	699.9	628.6	551.3	459.7	348.2	231.3	128.3	64.4	43.1	37.2
52.5°	784.6	725.2	663.3	603.8	521.1	411.6	275.4	137.2	61.9	40.6	34.2
55°	878.2	867.8	869.3	879.2	815.3	700.4	460.7	198.1	72.8	46.1	33.7
57.5°	1238.4	1275.0	1296.3	1295.8	1190.3	987.2	618.7	254.6	81.2	53.5	40.1
60°	1711.9	1684.2	1645.0	1548.4	1408.3	1126.9	692.0	273.9	70.3	42.6	36.7
62.5°	2130.5	1968.0	1823.8	1667.3	1483.5	1175.4	706.9	272.4	61.4	32.2	25.8
65°	2391.5	2099.3	1866.4	1670.3	1453.8	1134.8	668.7	250.1	52.0	26.3	21.3
67.5°	2453.9	2028.4	1699.0	1448.9	1214.6	883.2	490.9	188.2	40.6	21.8	18.8
69°	2317.7	1803.0	1407.8	1123.9	883.7	586.0	303.6	118.9	31.2	19.8	17.3
70°	2132.0	1568.3	1146.7	902.0	654.3	411.6	212.5	83.7	25.3	18.3	15.9
72.5°	1371.6	823.8	563.7	392.3	270.0	164.0	83.2	37.6	19.3	15.4	12.9
75°	532.0	304.6	220.9	167.9	131.3	91.1	50.5	24.3	16.3	12.9	9.9
77.5°	262.0	200.6	164.0	112.4	65.4	40.6	27.2	18.8	13.4	9.4	6.4
80°	207.1	137.7	82.2	51.0	38.6	29.2	20.8	15.4	9.9	5.9	4.5
82.5°	106.0	58.0	42.6	34.7	28.7	22.8	16.8	10.9	6.4	4.0	3.5
85°	33.2	24.3	21.8	21.3	19.8	16.3	11.9	6.9	4.0	2.5	2.5
87.5°	2.5	3.5	4.5	3.5	4.0	3.5	4.5	3.0	2.0	2.0	1.5
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°	228.4	228.4	228.4	228.4	228.4	228.4	228.4	228.4	228.4	228.4	228.4
2.5°	208.0	202.1	196.7	193.2	186.7	184.3	181.8	180.8	176.3	177.3	173.4
5°	181.8	171.4	163.5	155.5	148.1	142.7	138.2	132.8	128.3	126.3	122.3
7.5°	158.0	144.6	134.2	125.8	116.9	110.0	104.0	100.1	96.1	92.1	90.2
10°	137.2	122.8	111.0	102.5	94.1	88.2	83.7	80.7	78.3	76.8	76.3
12.5°	117.9	104.0	93.1	85.7	79.3	76.3	74.3	72.8	72.3	71.8	71.8
15°	103.0	89.2	80.7	75.3	72.3	70.8	70.3	69.3	68.4	67.9	67.9
17.5°	89.2	78.8	72.8	69.8	68.4	67.4	66.4	65.4	64.4	63.9	63.9
20°	79.8	71.3	68.4	66.4	64.9	63.9	62.4	61.4	60.9	60.4	59.9
22.5°	72.3	66.9	64.9	63.4	61.4	59.9	58.9	58.0	57.0	56.5	56.0
25°	66.9	63.4	61.9	59.9	58.0	56.5	55.0	53.5	52.5	52.0	51.0
27.5°	62.9	60.4	58.5	56.0	54.0	52.5	51.0	49.5	48.5	47.6	47.1
30°	59.4	57.0	54.5	52.5	50.0	48.5	46.6	45.1	44.6	43.6	42.6
32.5°	56.0	53.5	51.0	48.5	46.1	44.1	43.1	41.1	40.1	39.6	38.6
35°	52.0	49.5	46.6	44.6	42.1	40.1	38.6	37.2	36.2	35.2	34.7
37.5°	48.5	45.6	42.6	40.1	38.1	36.2	34.7	33.2	32.2	31.2	30.7
40°	44.6	41.6	38.6	36.2	34.2	32.7	31.2	29.7	28.7	28.2	28.2
42.5°	41.1	37.6	34.7	32.7	31.2	29.2	27.7	26.3	25.8	25.3	25.8
45°	37.6	34.2	31.7	29.7	28.2	26.3	24.8	23.8	23.3	23.8	24.3
47.5°	34.7	31.2	28.7	27.2	25.8	24.3	22.8	21.8	21.8	22.8	23.8
50°	31.7	28.2	26.3	25.3	23.8	22.3	20.3	19.8	20.3	21.3	22.3
52.5°	28.7	24.8	23.3	22.8	21.3	19.8	18.3	17.8	18.3	19.3	18.8
55°	25.8	21.8	21.3	20.8	19.3	17.3	15.9	15.9	15.9	15.4	14.4
57.5°	24.8	19.3	18.8	18.3	16.8	14.9	13.9	12.9	12.4	10.9	10.4
60°	25.8	17.3	17.3	16.3	14.9	12.9	11.4	9.9	8.9	7.9	7.9
62.5°	20.8	15.9	15.4	14.4	12.4	10.4	8.9	7.4	6.9	6.4	6.4
65°	16.8	14.4	13.4	11.9	10.4	8.4	6.9	5.9	5.4	5.4	5.9
67.5°	15.4	12.9	11.4	9.9	8.4	6.4	5.4	5.0	5.0	5.4	5.4
69°	14.4	11.9	10.4	8.9	7.4	5.9	5.0	5.0	5.0	5.0	5.4
70°	13.4	11.4	9.9	8.4	6.4	5.0	4.5	4.5	5.0	5.0	5.4
72.5°	10.4	8.9	8.4	6.9	5.0	4.5	4.0	4.5	4.5	5.0	5.0
75°	7.9	6.4	6.4	5.4	4.0	3.5	3.5	4.0	4.0	4.5	4.5
77.5°	5.4	4.5	4.5	4.0	3.5	3.0	3.0	3.5	4.0	4.0	4.5
80°	4.0	3.5	3.0	3.5	3.0	2.5	3.0	3.5	3.5	4.0	4.0
82.5°	3.0	3.0	3.0	3.0	2.5	2.5	3.0	3.0	3.5	4.0	4.0
85°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.0	3.0	3.5	3.5
87.5°	1.5	1.5	1.5	2.0	2.0	2.5	2.5	2.5	2.5	3.0	3.0
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: P180833

CATALOG NUMBER: ICS-F02-LED-E1-SL4-HSS

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	228.4	228.4	228.4	228.4
2.5°	172.4	171.9	169.9	170.4
5°	120.9	117.9	119.9	119.4
7.5°	88.7	88.2	87.7	88.7
10°	75.8	75.8	75.3	75.8
12.5°	71.3	71.3	71.3	71.3
15°	67.9	67.9	67.4	67.4
17.5°	63.9	63.9	63.9	63.4
20°	59.9	59.4	59.4	59.4
22.5°	55.5	55.0	55.0	55.0
25°	51.0	50.5	50.5	50.5
27.5°	46.6	46.1	45.6	45.6
30°	42.1	41.6	41.1	41.1
32.5°	37.6	37.2	36.7	36.7
35°	33.7	33.7	33.2	32.7
37.5°	30.2	30.2	30.2	30.2
40°	27.7	28.2	28.2	28.2
42.5°	26.3	26.7	27.2	27.7
45°	25.3	26.3	26.7	26.7
47.5°	24.8	25.3	25.8	25.8
50°	22.8	22.3	22.3	22.3
52.5°	18.3	17.3	16.8	16.3
55°	13.4	12.9	11.9	11.9
57.5°	9.4	9.4	8.9	8.9
60°	7.4	7.4	6.9	7.4
62.5°	6.4	6.4	6.4	6.4
65°	5.9	5.9	5.9	5.9
67.5°	5.9	5.9	5.9	5.9
69°	5.4	5.4	5.4	5.4
70°	5.4	5.4	5.4	5.4
72.5°	5.0	5.0	5.0	5.0
75°	4.5	5.0	5.0	5.0
77.5°	4.5	4.5	4.5	4.5
80°	4.0	4.0	4.5	4.5
82.5°	4.0	4.0	4.0	4.0
85°	3.5	3.5	4.0	4.0
87.5°	3.0	3.0	3.5	3.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)