

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: P181392

Luminaire Tested: **ICS-F02-LED-E1-T3-HSS-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P181392  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33724)  
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-T3-HSS-8030  
Description: ICON SITE SMALL LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ HOUSE SIDE SHIELD  
Light Source: (14) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2044.7 lumens  
Efficiency: N/A  
Efficacy: 37.2 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1

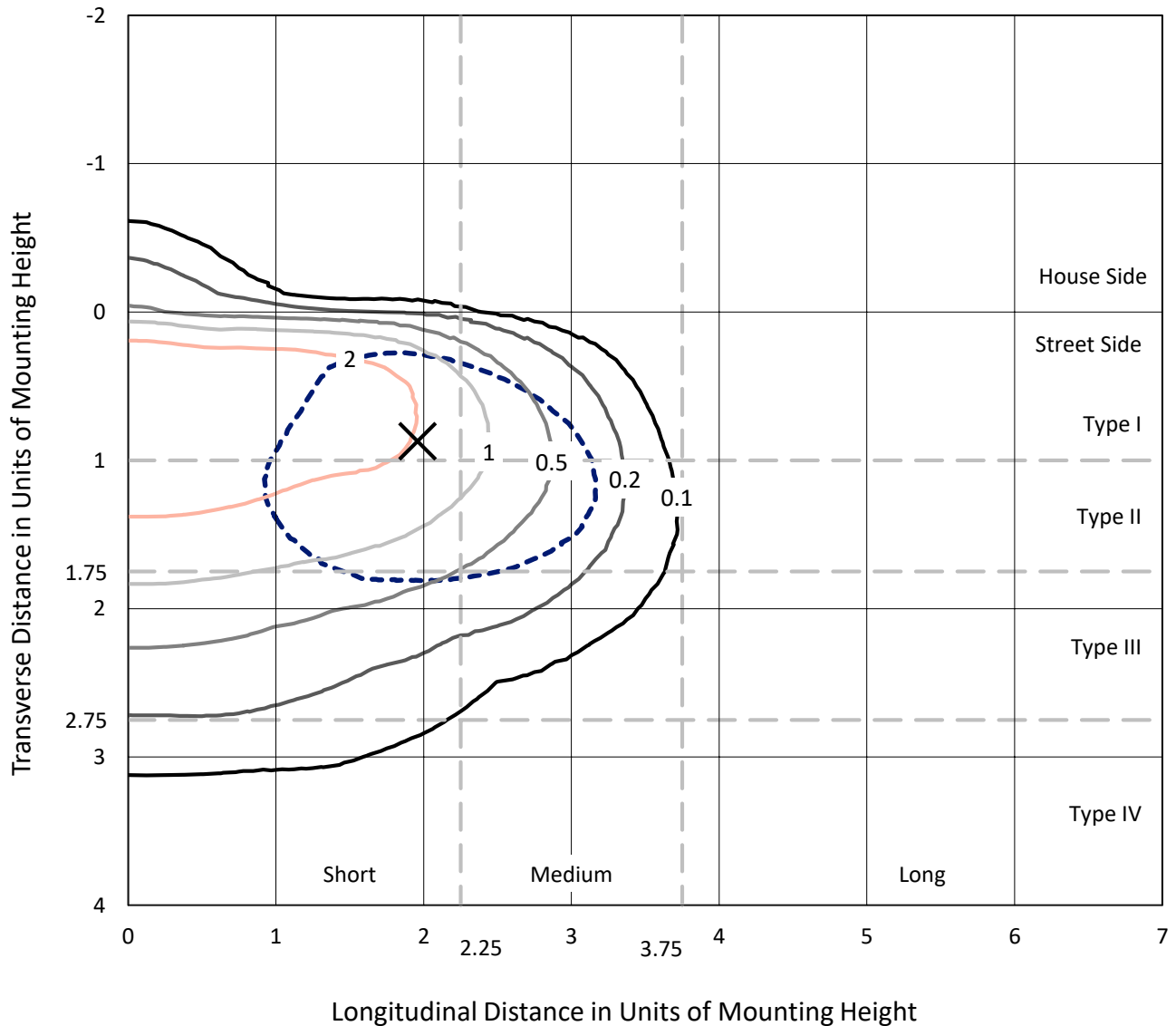
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P181392  
 CATALOG NUMBER: ICS-F02-LED-E1-T3-HSS-8030

### Iso-Footcandle Lines of Horizontal Illumination

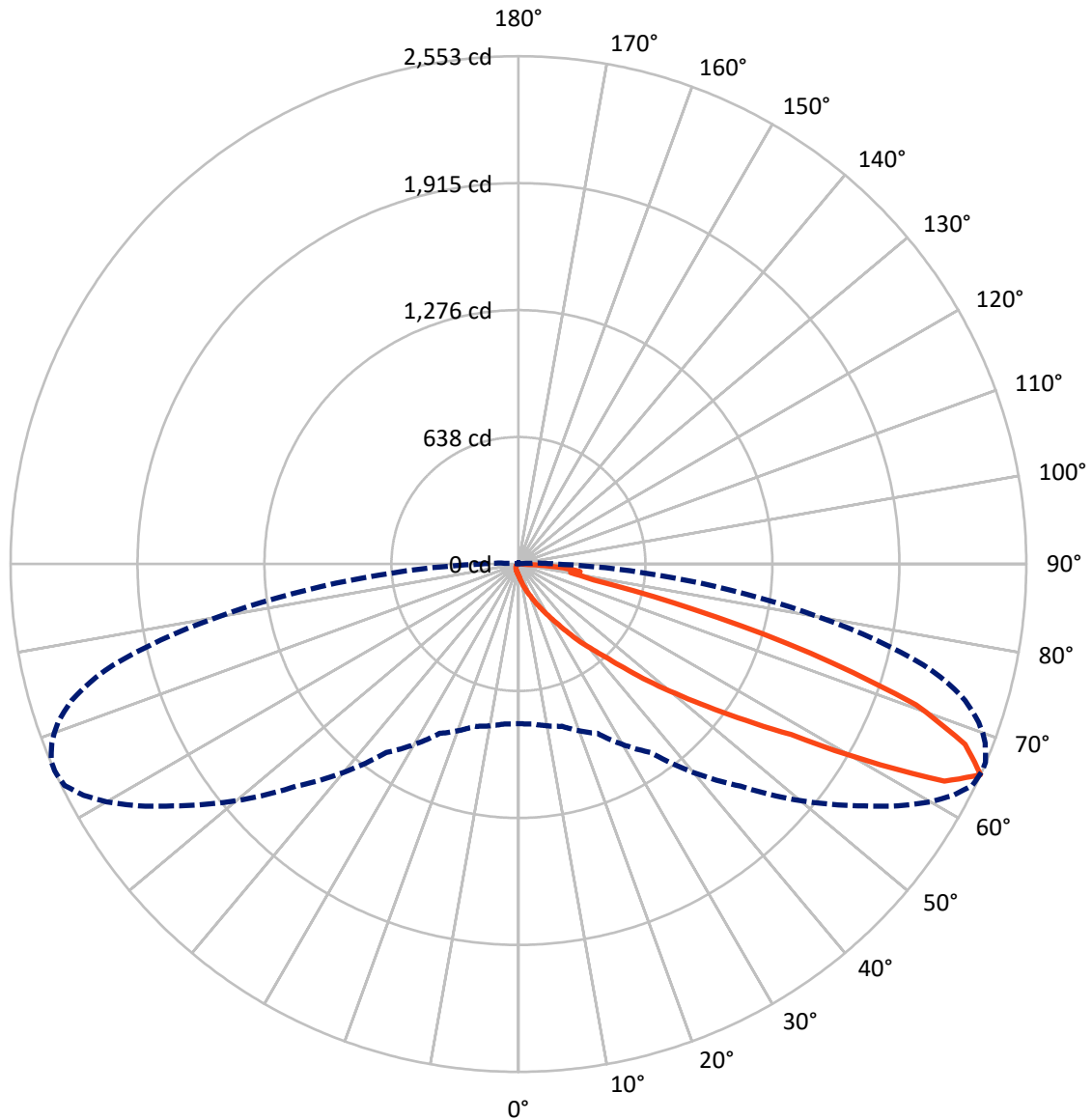
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3 fc  
 Type III - Short - Non-Cutoff

REPORT NUMBER: P181392  
CATALOG NUMBER: ICS-F02-LED-E1-T3-HSS-8030

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P181392

CATALOG NUMBER: ICS-F02-LED-E1-T3-HSS-8030

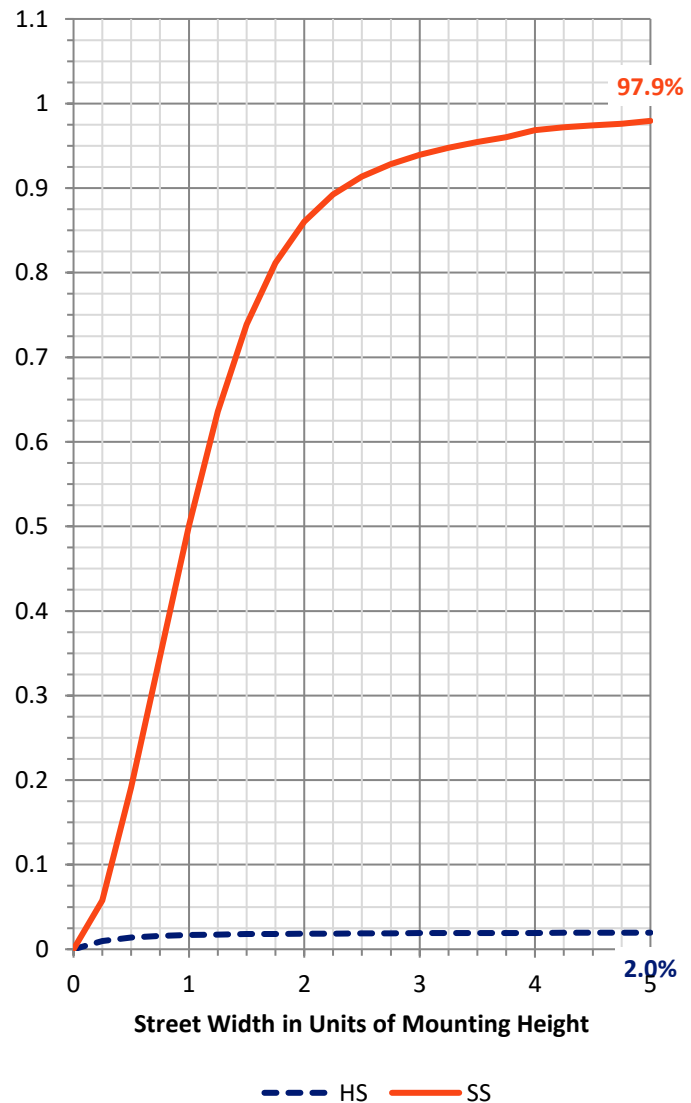
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	41.1	0.0	41.1
	% Fixture	2.0	0.0	2.0
<b>Street Side</b>	Lumens	2003.7	0.0	2003.7
	% Fixture	98.0	0.0	98.0
<b>Total</b>	Lumens	2044.7	0.0	2044.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.0	0.3
10°-20°	33.2	1.6
20°-30°	76.0	3.7
30°-40°	144.5	7.1
40°-50°	290.0	14.2
50°-60°	513.2	25.1
60°-70°	670.5	32.8
70°-80°	275.7	13.5
80°-90°	34.7	1.7
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°	2044.7	100.0
0°-180°	2044.7	100.0



REPORT NUMBER: P181392

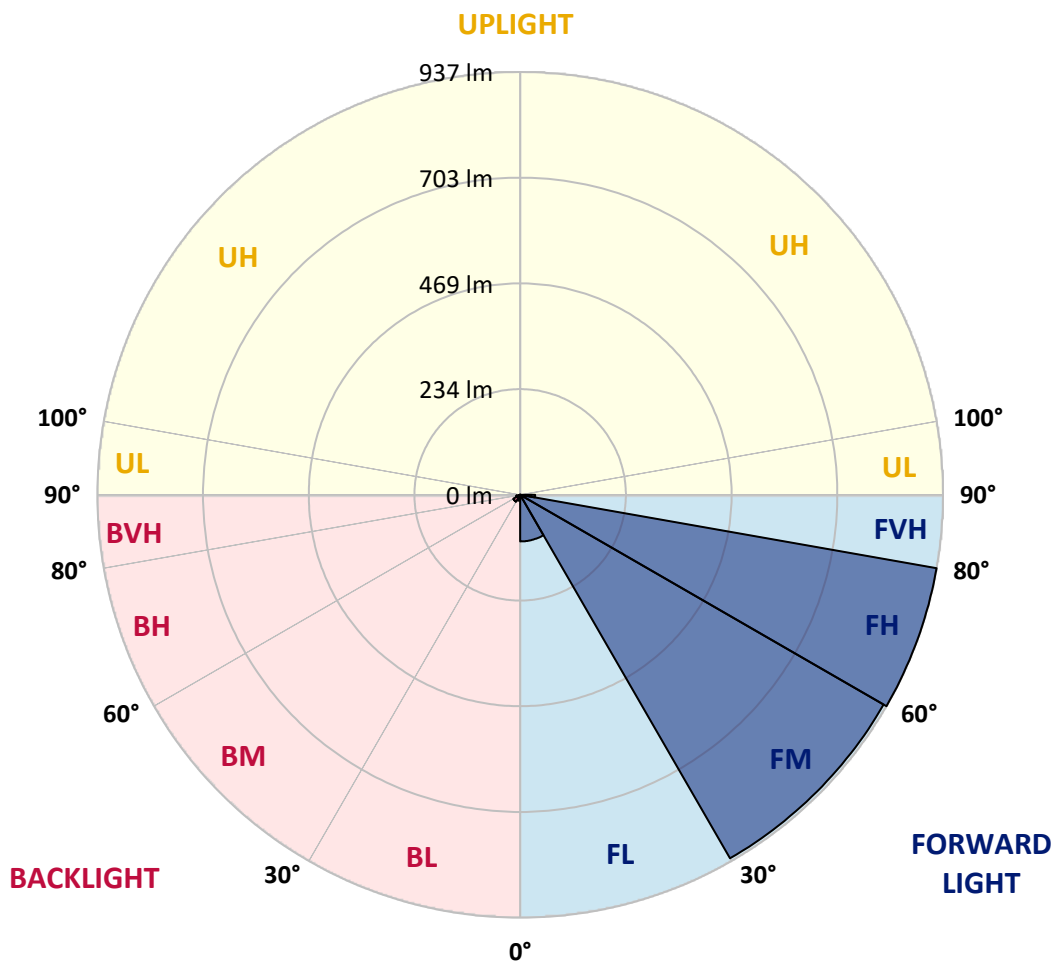
CATALOG NUMBER: ICS-F02-LED-E1-T3-HSS-8030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	103.3	5.1			
FM	(30°-60°)	930.1	45.5			
FH	(60°-80°)	937.1	45.8			G1/1800
FVH	(80°-90°)	33.2	1.6			G1/100
BL	(0°-30°)	12.8	0.6	B0/110		
BM	(30°-60°)	17.6	0.9	B0/220		
BH	(60°-80°)	9.1	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 III Short





REPORT NUMBER: P181392

CATALOG NUMBER: ICS-F02-LED-E1-T3-HSS-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
2.5°	75.3	74.0	74.4	71.9	70.2	68.1	66.5	66.1	65.6	64.8	65.2
5°	108.3	107.0	104.1	99.1	94.5	87.4	80.3	79.9	78.6	77.3	76.5
7.5°	150.5	148.4	145.1	136.7	125.4	112.9	98.7	97.4	95.7	94.1	92.4
10°	199.4	198.2	191.9	182.3	165.1	144.7	120.8	119.6	115.8	113.7	112.0
12.5°	250.8	245.4	242.9	226.2	206.5	178.5	148.0	143.4	140.5	137.5	133.4
15°	289.7	290.6	284.7	271.3	248.3	215.7	177.7	172.7	168.5	163.0	158.0
17.5°	324.8	323.2	316.9	308.5	286.8	253.8	209.5	202.8	196.1	193.1	186.0
20°	353.3	352.4	347.4	339.5	322.7	291.0	242.9	237.5	229.9	224.9	217.0
22.5°	375.8	375.8	372.9	368.3	352.0	326.5	278.4	272.6	265.1	258.8	250.0
25°	393.8	393.4	393.8	391.7	380.9	357.4	314.8	308.1	301.8	294.3	286.0
27.5°	414.3	415.1	414.3	413.0	408.4	389.6	351.6	347.0	339.9	331.9	323.6
30°	446.1	443.6	443.1	442.3	436.9	425.2	389.6	384.2	378.8	373.3	367.5
32.5°	479.5	475.3	474.1	474.1	470.3	459.9	433.5	430.6	422.7	418.5	413.5
35°	517.6	515.9	514.2	514.6	513.0	502.1	480.4	481.2	478.7	470.3	465.3
37.5°	573.2	573.6	570.7	565.2	565.2	555.6	543.1	541.4	535.1	533.0	530.1
40°	652.6	650.5	648.0	640.1	637.1	620.8	609.1	604.9	599.9	599.5	596.2
42.5°	744.6	742.1	742.1	736.2	730.4	710.7	688.6	685.6	680.2	681.9	680.6
45°	829.9	831.9	834.9	839.1	839.9	831.5	799.3	795.6	792.6	791.0	789.7
47.5°	903.4	907.2	916.8	934.8	957.8	960.7	935.2	925.2	923.1	920.2	917.7
50°	956.1	961.5	983.3	1018.4	1063.1	1090.7	1076.9	1068.6	1068.2	1060.2	1059.4
52.5°	986.2	992.1	1027.6	1080.7	1150.1	1204.0	1221.2	1220.7	1219.9	1212.8	1209.9
55°	992.9	999.2	1041.8	1114.1	1213.2	1306.5	1372.1	1373.8	1377.5	1375.4	1375.4
57.5°	974.5	982.5	1028.9	1118.3	1246.2	1387.6	1531.0	1540.6	1545.2	1561.5	1580.3
60°	940.6	946.5	992.9	1092.8	1252.1	1461.6	1737.5	1768.0	1791.8	1824.0	1854.5
62.5°	877.9	889.6	934.0	1042.7	1234.5	1546.8	1984.1	2040.6	2087.0	2135.9	2194.8
65°	801.8	806.9	844.5	939.4	1155.9	1579.4	2120.4	2175.6	2235.0	2287.2	2339.9
67.5°	706.5	710.7	743.3	783.9	954.0	1426.9	1986.2	2047.3	2100.8	2143.8	2212.8
70°	462.8	472.0	551.8	592.0	666.8	1054.8	1624.2	1683.1	1724.1	1753.4	1833.2
72.5°	339.0	344.9	377.1	459.9	478.3	623.3	1143.0	1207.0	1222.0	1277.2	1314.4
75°	206.9	221.6	294.3	393.8	466.1	426.8	684.8	715.7	750.4	790.6	826.1
77.5°	41.8	47.7	96.2	271.3	410.1	456.1	408.9	414.7	431.9	435.6	449.0
80°	6.7	7.1	12.5	117.1	237.5	368.7	408.9	403.4	393.8	387.1	380.4
82.5°	2.9	3.3	5.4	29.7	50.6	122.9	353.7	381.3	413.0	430.6	435.2
85°	1.3	1.3	2.1	5.9	7.5	8.4	59.8	79.0	140.9	187.3	215.7
87.5°	0.8	0.8	1.3	1.3	1.7	2.1	2.9	2.9	3.3	3.8	5.4
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: P181392

CATALOG NUMBER: ICS-F02-LED-E1-T3-HSS-8030

**CANDELA DISTRIBUTION (continued):**

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
2.5°	65.2	64.8	64.8	63.5	63.5	63.1	63.1	62.7	62.7	61.9	62.3
5°	76.1	75.3	74.4	73.2	72.7	71.9	71.1	69.8	69.4	68.6	68.1
7.5°	90.7	89.9	88.2	85.7	84.0	82.4	80.7	79.0	77.8	76.5	75.7
10°	108.7	106.2	105.4	100.3	98.2	94.9	92.8	91.1	88.6	86.5	85.3
12.5°	130.4	128.3	124.2	117.5	114.1	111.2	107.4	104.1	101.6	97.8	95.3
15°	153.0	151.3	145.5	138.0	133.8	128.3	124.6	121.2	115.8	113.3	108.7
17.5°	181.4	176.4	170.6	159.7	154.3	149.7	143.0	138.0	134.6	127.1	122.9
20°	210.7	205.3	197.7	185.6	178.1	171.0	165.6	158.9	151.8	146.7	139.6
22.5°	244.1	235.4	229.5	214.5	205.7	198.2	189.0	181.9	174.8	166.8	158.9
25°	279.7	270.9	263.8	246.7	237.5	229.9	219.1	209.0	200.3	191.5	182.3
27.5°	316.9	308.9	301.0	283.4	275.5	265.1	255.0	243.3	232.0	224.1	211.5
30°	360.0	353.3	344.5	325.7	316.9	306.0	295.6	281.8	270.9	260.0	247.9
32.5°	406.4	400.9	391.7	375.0	364.6	355.4	344.1	330.7	315.2	303.9	289.7
35°	462.8	453.6	448.2	432.3	424.3	414.3	402.6	390.9	374.6	358.7	346.6
37.5°	527.2	523.0	515.9	500.8	495.0	484.5	477.0	465.3	452.8	432.7	419.7
40°	593.2	590.3	584.0	569.0	563.1	556.0	547.2	536.0	520.9	510.5	491.2
42.5°	677.3	672.7	667.6	653.4	642.1	633.4	629.6	620.0	604.1	590.7	575.7
45°	783.9	781.8	775.1	760.9	749.6	743.7	737.9	721.6	711.1	697.7	687.3
47.5°	912.6	905.9	902.6	886.7	883.0	878.4	863.3	854.1	839.1	828.6	815.6
50°	1051.8	1044.7	1045.2	1025.9	1026.8	1023.4	1012.1	1001.3	988.3	979.1	971.2
52.5°	1201.5	1204.9	1196.5	1202.4	1195.7	1188.1	1186.0	1172.7	1161.4	1161.0	1150.1
55°	1385.5	1380.0	1382.1	1388.0	1378.8	1387.1	1383.0	1365.8	1366.2	1369.6	1357.0
57.5°	1583.2	1591.2	1608.3	1612.1	1627.9	1617.1	1645.5	1625.0	1637.6	1637.6	1629.2
60°	1873.3	1905.1	1946.5	1978.7	2008.4	1998.8	2036.0	2012.6	2029.3	2015.1	2008.0
62.5°	2222.8	2265.1	2314.0	2366.2	2396.3	2403.9	2398.4	2408.9	2392.6	2382.1	2355.0
65°	2390.9	2432.7	2475.4	2538.1	2546.4	2552.7	2550.2	2532.6	2512.6	2482.9	2447.3
67.5°	2251.3	2309.8	2333.6	2406.0	2430.2	2421.4	2424.4	2401.8	2370.4	2341.2	2288.9
70°	1866.7	1933.5	1946.1	2049.8	2078.6	2120.4	2105.4	2098.7	2064.4	2039.7	1982.0
72.5°	1359.1	1411.4	1407.2	1523.8	1518.8	1536.0	1576.5	1574.8	1538.9	1531.0	1482.5
75°	836.5	867.9	866.2	949.0	914.3	909.3	920.6	915.6	881.7	846.6	816.5
77.5°	443.1	457.4	442.3	417.6	415.1	387.1	379.2	378.8	352.8	321.1	297.7
80°	373.3	358.7	341.1	305.2	284.3	265.5	247.9	231.6	214.0	190.6	162.2
82.5°	436.0	428.9	416.4	371.2	349.5	311.9	283.9	257.5	225.3	201.1	164.7
85°	212.4	212.0	222.0	217.4	209.5	207.8	180.2	174.3	161.4	148.0	123.7
87.5°	5.9	4.2	5.0	4.2	5.0	5.4	3.8	8.8	5.4	5.0	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: P181392

CATALOG NUMBER: ICS-F02-LED-E1-T3-HSS-8030

**CANDELA DISTRIBUTION (continued):**

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
2.5°	61.9	61.5	61.0	61.0	60.6	60.6	60.2	59.8	59.8	59.4	59.4
5°	67.3	66.5	66.1	65.6	64.8	64.4	63.5	63.1	62.3	61.9	61.0
7.5°	74.0	73.2	71.5	70.7	69.4	69.0	66.9	66.1	65.2	64.4	63.1
10°	82.4	80.3	78.6	76.9	74.8	73.2	71.5	70.2	68.6	66.5	65.6
12.5°	92.8	89.9	87.4	84.4	81.9	79.4	76.5	74.4	71.9	69.8	67.7
15°	104.5	100.3	97.0	92.8	88.6	85.7	82.8	79.9	76.5	73.6	71.1
17.5°	117.9	112.5	107.9	102.8	98.2	94.1	89.0	85.3	81.5	77.3	74.0
20°	132.1	126.7	120.4	115.0	108.3	103.7	97.4	92.4	87.0	82.8	78.2
22.5°	150.9	143.8	135.9	128.3	121.2	114.1	107.4	101.2	94.5	88.2	83.6
25°	173.1	164.3	154.3	146.7	136.7	128.8	120.4	112.5	105.4	97.4	89.9
27.5°	200.7	189.0	178.1	167.6	156.8	146.7	135.9	126.7	117.1	107.9	99.5
30°	232.9	221.6	205.3	193.6	182.7	168.9	158.0	145.9	135.0	121.7	112.5
32.5°	275.5	260.9	243.7	228.3	214.0	198.6	183.5	168.1	153.8	141.7	127.9
35°	331.1	314.0	293.5	273.8	257.9	239.1	219.9	202.3	186.0	168.5	151.3
37.5°	401.3	385.5	363.3	339.5	318.1	295.6	275.5	250.8	229.1	207.8	186.0
40°	471.2	456.5	433.5	408.0	380.4	354.5	329.0	301.0	273.4	246.7	224.1
42.5°	557.3	535.5	510.9	482.0	455.3	424.3	392.6	360.4	327.3	295.2	263.0
45°	665.6	648.8	614.1	583.2	551.4	515.1	475.8	439.0	396.7	358.7	316.1
47.5°	797.2	767.1	741.6	713.2	673.5	638.4	588.2	544.7	492.1	441.5	390.5
50°	952.8	936.0	902.2	866.6	823.6	781.8	732.9	670.2	607.0	553.1	483.3
52.5°	1134.6	1110.8	1089.5	1052.7	1008.8	955.3	899.7	831.5	754.2	678.1	603.7
55°	1350.3	1333.6	1313.1	1283.9	1227.9	1167.2	1100.3	1018.8	927.3	824.8	738.3
57.5°	1628.8	1611.2	1591.6	1531.4	1493.3	1418.9	1321.9	1237.5	1138.8	1007.5	900.1
60°	2008.8	1985.0	1957.4	1908.5	1829.0	1732.5	1628.4	1503.4	1382.5	1239.1	1098.3
62.5°	2333.6	2295.6	2236.6	2173.5	2078.2	1967.4	1836.6	1689.4	1551.9	1390.5	1233.7
65°	2400.5	2348.3	2278.9	2196.5	2098.3	1973.3	1836.6	1695.7	1533.9	1382.1	1224.5
67.5°	2226.6	2166.0	2094.9	2002.9	1909.3	1780.5	1662.6	1519.2	1367.1	1235.8	1094.9
70°	1940.7	1850.8	1778.0	1680.2	1585.3	1484.1	1360.0	1252.5	1128.8	1008.0	900.1
72.5°	1457.4	1368.7	1302.7	1224.5	1168.1	1061.0	969.9	889.6	816.5	726.2	646.3
75°	785.5	719.1	674.8	639.2	588.6	518.0	474.5	419.3	388.4	350.8	314.4
77.5°	256.3	225.8	192.7	160.5	138.0	103.7	100.3	79.9	75.3	73.2	56.4
80°	131.3	101.2	73.2	52.7	40.1	35.5	33.9	32.2	30.5	29.3	27.2
82.5°	131.7	95.3	65.6	45.6	33.0	27.6	25.9	25.1	23.8	22.6	20.9
85°	96.2	71.1	48.9	33.4	23.0	18.4	17.6	16.3	15.5	15.1	13.4
87.5°	6.3	4.6	4.2	3.8	3.8	3.8	4.2	3.8	4.2	4.2	3.8
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: P181392

CATALOG NUMBER: ICS-F02-LED-E1-T3-HSS-8030

**CANDELA DISTRIBUTION (continued):**

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
2.5°	58.9	58.5	58.5	58.1	57.7	57.7	57.3	57.3	56.0	53.9	52.3
5°	60.6	59.8	59.4	58.9	58.5	57.7	57.3	56.9	54.8	50.6	47.2
7.5°	61.9	61.0	60.6	59.8	58.5	58.1	57.3	56.4	53.1	47.2	43.5
10°	64.0	62.7	61.5	60.2	58.9	58.1	56.9	56.0	51.0	44.3	40.6
12.5°	66.1	64.4	62.7	60.6	59.4	58.1	56.9	55.2	49.3	41.8	37.6
15°	68.6	66.1	64.0	61.9	59.8	58.1	56.0	54.8	47.7	39.7	36.0
17.5°	71.1	68.1	65.2	62.3	60.2	57.7	56.0	53.9	46.0	38.0	33.9
20°	74.0	69.8	66.9	63.5	60.6	57.7	55.2	53.1	44.3	36.0	31.8
22.5°	78.2	73.2	68.6	64.8	61.0	58.1	55.2	52.3	42.6	34.3	30.1
25°	83.6	77.3	71.9	67.3	62.7	58.9	55.6	52.7	41.4	33.0	28.0
27.5°	91.6	83.6	77.8	71.5	65.6	61.0	56.9	53.5	40.6	31.8	26.8
30°	101.2	93.2	84.0	76.5	70.2	64.0	59.4	54.3	39.7	30.5	25.1
32.5°	115.4	104.1	93.2	84.0	75.3	68.1	61.5	56.4	39.3	28.4	23.4
35°	135.9	120.4	107.4	95.3	83.2	74.4	66.5	59.8	38.9	26.8	21.7
37.5°	165.1	146.7	130.0	112.9	97.8	85.3	74.4	65.6	38.9	25.5	20.1
40°	196.5	172.7	151.3	130.0	110.8	94.9	80.3	69.4	38.0	23.8	18.4
42.5°	232.0	202.8	173.5	147.2	123.3	102.8	85.7	72.3	36.0	22.2	16.7
45°	279.7	241.2	206.1	172.2	141.3	114.5	92.8	75.7	33.9	20.9	15.1
47.5°	339.5	294.7	249.2	206.5	166.0	132.1	103.3	81.1	32.6	19.2	13.8
50°	428.5	365.0	304.8	250.4	199.0	154.7	118.7	89.0	31.4	18.0	12.5
52.5°	526.3	448.2	377.5	307.7	243.7	185.2	136.7	99.5	30.1	16.7	11.3
55°	645.5	549.3	463.2	372.5	290.6	220.7	158.9	111.2	28.4	15.5	10.5
57.5°	792.6	671.0	569.0	458.2	355.4	266.7	188.5	130.9	26.8	13.8	9.2
60°	956.9	819.4	691.1	561.0	436.5	327.8	232.4	158.9	25.1	12.1	7.9
62.5°	1075.3	924.3	777.6	631.7	495.0	373.3	268.0	180.6	22.6	10.5	7.1
65°	1074.0	921.0	773.4	629.6	496.7	375.0	269.2	184.8	20.1	9.2	6.3
67.5°	956.9	828.2	696.5	567.3	451.1	341.1	249.2	171.4	17.1	8.4	5.4
70°	787.2	684.8	580.7	478.3	385.0	292.2	215.3	149.2	14.6	7.5	4.6
72.5°	574.8	500.0	436.5	364.1	300.6	230.8	171.8	117.1	11.7	6.3	4.2
75°	285.5	255.4	219.1	196.5	167.6	137.1	106.6	68.1	9.6	5.0	3.8
77.5°	54.3	48.5	46.4	40.1	36.8	32.6	28.8	20.5	7.5	3.8	3.3
80°	25.1	23.0	20.9	18.8	16.7	14.2	12.5	10.9	5.9	2.9	3.8
82.5°	19.6	18.0	15.9	14.2	12.5	10.9	9.2	7.9	3.8	2.5	3.8
85°	13.0	11.3	10.0	8.8	7.5	6.7	5.9	5.0	2.5	2.5	2.5
87.5°	3.8	3.8	3.3	3.3	2.9	2.9	2.5	2.5	2.1	2.1	2.1
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: P181392

CATALOG NUMBER: ICS-F02-LED-E1-T3-HSS-8030

**CANDELA DISTRIBUTION (continued):**

	125°	135°	145°	155°	165°	175°	180°
0°	56.9	56.9	56.9	56.9	56.9	56.9	56.9
2.5°	50.6	48.5	47.7	47.2	47.2	47.7	47.2
5°	44.7	42.6	41.8	41.0	41.0	41.0	41.4
7.5°	41.0	38.9	37.6	37.2	36.8	37.2	37.2
10°	37.6	36.0	34.3	33.4	33.4	33.4	33.4
12.5°	35.1	33.0	31.4	30.9	30.5	30.5	30.5
15°	33.0	30.5	29.3	28.4	28.0	28.0	28.4
17.5°	30.5	28.4	26.8	26.3	26.3	26.3	26.3
20°	28.8	26.3	25.1	24.2	24.2	24.2	24.2
22.5°	26.8	24.7	23.0	22.2	22.2	22.2	22.2
25°	25.1	23.0	21.3	20.5	20.5	20.5	20.5
27.5°	23.4	21.3	19.6	18.8	18.8	18.8	18.8
30°	21.7	19.6	18.0	17.1	17.1	17.1	17.1
32.5°	20.5	18.0	16.3	15.5	15.5	15.9	15.5
35°	18.4	16.3	14.6	13.8	13.8	13.8	13.8
37.5°	16.7	14.6	13.0	12.1	12.1	12.1	11.7
40°	15.5	13.0	11.3	10.5	10.0	10.0	10.0
42.5°	13.4	10.9	9.6	8.8	8.4	8.4	8.4
45°	12.1	9.6	7.9	7.1	7.1	7.1	7.1
47.5°	10.9	8.4	6.7	5.9	5.9	6.3	6.3
50°	9.6	7.1	5.4	5.4	5.4	5.9	5.9
52.5°	8.4	6.3	5.0	5.0	5.4	5.9	5.9
55°	7.5	5.4	4.6	5.0	5.4	5.9	5.9
57.5°	6.7	4.6	4.6	5.0	5.4	5.9	5.9
60°	5.9	4.2	4.2	4.6	5.4	5.9	5.9
62.5°	5.0	4.2	4.2	4.6	5.4	5.9	5.9
65°	4.6	4.2	4.2	4.6	5.4	5.9	5.9
67.5°	4.2	3.8	4.2	4.6	5.0	5.4	5.4
70°	3.8	3.8	4.2	4.6	5.0	5.4	5.4
72.5°	3.8	3.8	3.8	4.2	4.6	5.0	5.0
75°	3.8	3.8	3.8	4.2	4.6	5.0	5.0
77.5°	3.8	3.3	3.3	3.8	4.6	5.0	5.0
80°	3.8	3.3	3.3	3.8	4.2	5.0	5.0
82.5°	2.9	2.9	3.3	3.8	4.2	4.6	4.6
85°	2.5	2.9	2.9	3.3	3.8	4.6	4.6
87.5°	2.1	2.1	2.5	2.9	3.3	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)