

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: P181210

Luminaire Tested: **ICS-E02-LED-E1-T2-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181210
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33723)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-E02-LED-E1-T2-HSS-8030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2432.8 lumens
Efficiency: N/A
Efficacy: 46.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

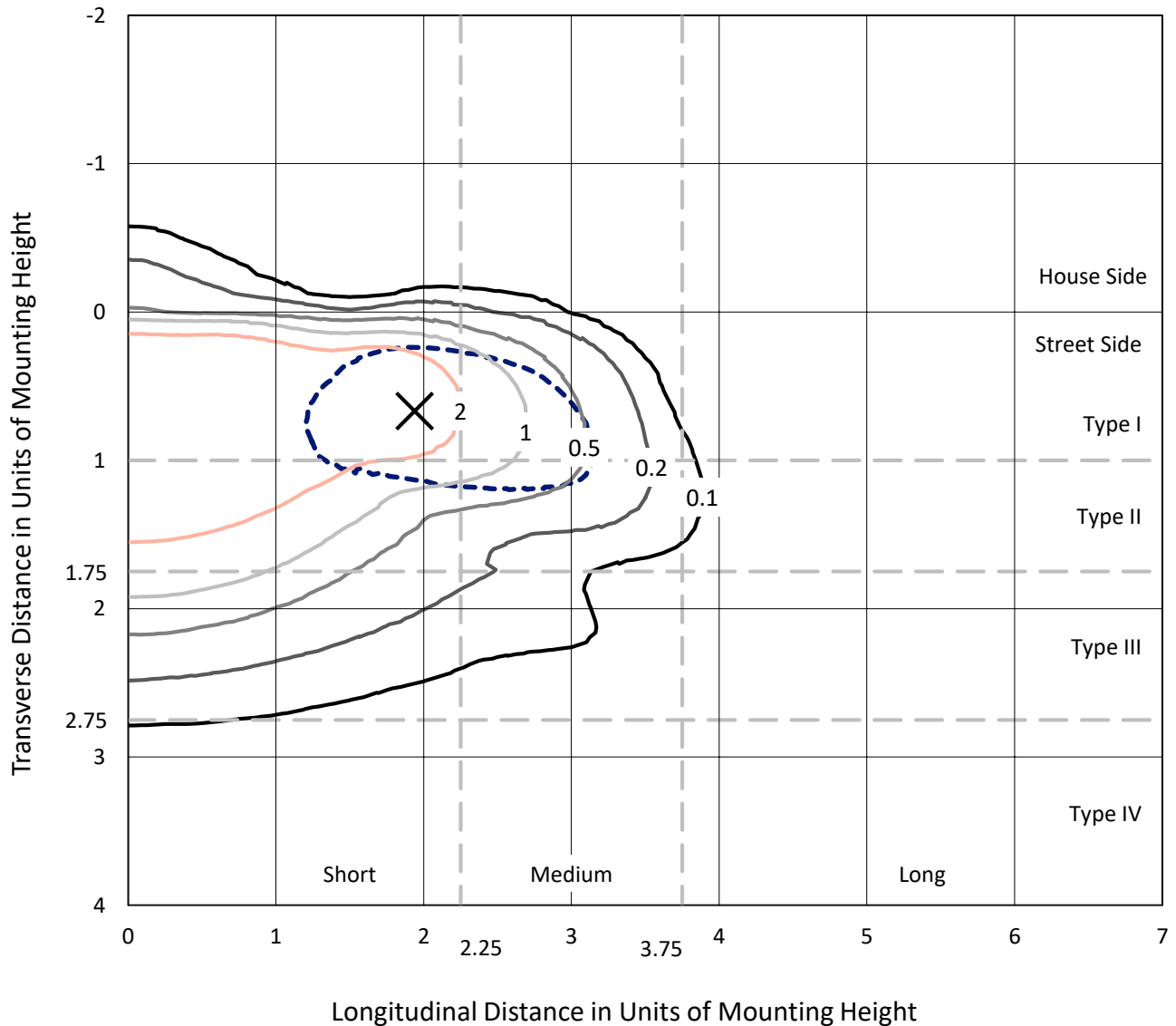
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P181210
 CATALOG NUMBER: ICS-E02-LED-E1-T2-HSS-8030

Iso-Footcandle Lines of Horizontal Illumination

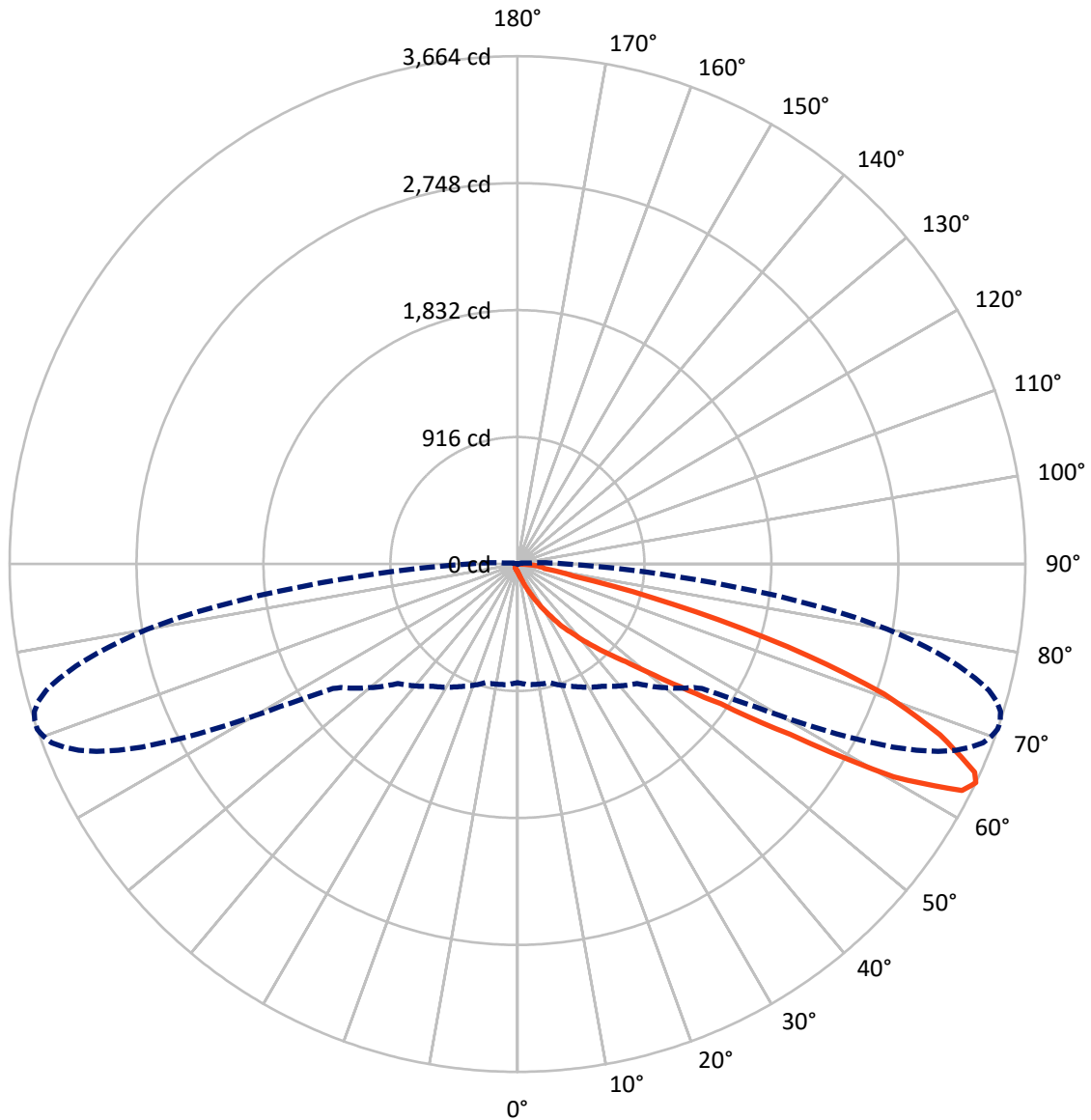
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P181210
CATALOG NUMBER: ICS-E02-LED-E1-T2-HSS-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P181210
 CATALOG NUMBER: ICS-E02-LED-E1-T2-HSS-8030

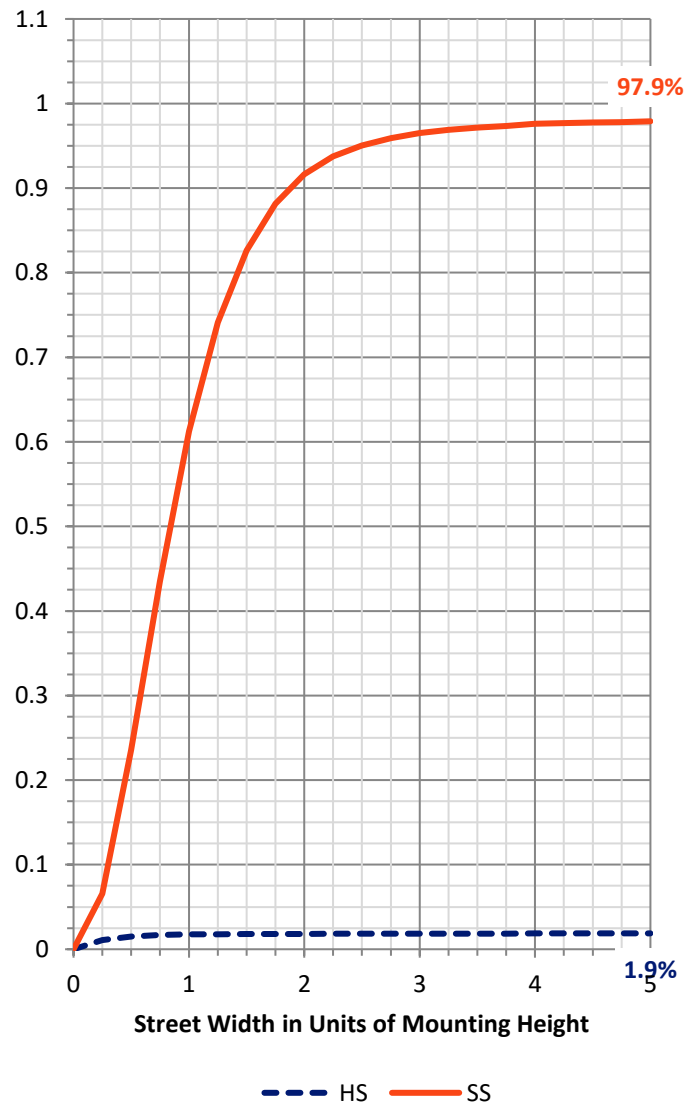
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	46.5	0.0	46.5
	% Fixture	1.9	0.0	1.9
Street Side	Lumens	2386.2	0.0	2386.2
	% Fixture	98.1	0.0	98.1
Total	Lumens	2432.8	0.0	2432.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	0.3
10°-20°	44.0	1.8
20°-30°	112.4	4.6
30°-40°	227.3	9.3
40°-50°	415.4	17.1
50°-60°	647.2	26.6
60°-70°	719.3	29.6
70°-80°	234.6	9.6
80°-90°	25.2	1.0
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°	2432.8	100.0
0°-180°	2432.8	100.0



REPORT NUMBER: P181210

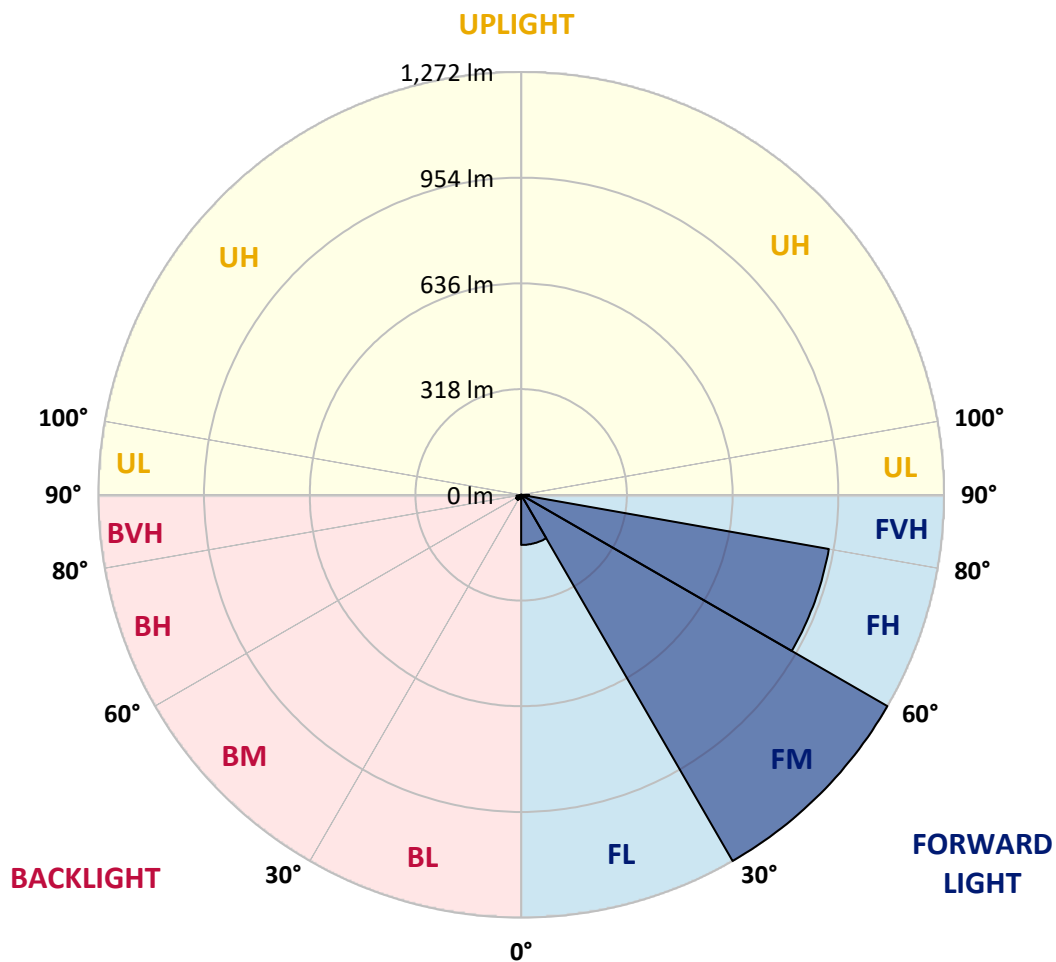
CATALOG NUMBER: ICS-E02-LED-E1-T2-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	150.8	6.2			
FM (30°-60°)	1271.8	52.3			
FH (60°-80°)	939.6	38.6			G1/1800
FVH (80°-90°)	24.0	1.0			G1/100
BL (0°-30°)	13.0	0.5	B0/110		
BM (30°-60°)	18.0	0.7	B0/220		
BH (60°-80°)	14.4	0.6	B0/110		G0/110
BVH (80°-90°)	1.2	0.0			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 II Short





REPORT NUMBER: P181210
 CATALOG NUMBER: ICS-E02-LED-E1-T2-HSS-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
2.5°	72.9	71.9	71.9	70.4	68.4	66.3	64.3	63.8	63.3	62.8	62.8
5°	114.5	110.4	108.9	103.3	96.2	87.6	80.0	78.0	78.0	76.5	75.5
7.5°	179.8	177.8	167.1	161.5	144.8	124.1	102.3	100.3	99.8	97.7	94.7
10°	263.3	259.3	251.7	235.5	205.1	169.1	138.3	133.2	129.6	125.6	121.5
12.5°	346.9	341.8	330.7	304.4	274.0	227.9	178.3	173.7	168.1	162.6	156.0
15°	430.5	426.9	409.7	383.4	343.9	288.7	225.9	217.8	213.2	202.1	197.0
17.5°	502.9	498.3	484.6	454.8	413.7	353.0	278.5	268.4	260.8	254.2	242.1
20°	565.7	561.1	547.9	523.1	477.0	417.3	335.3	330.2	316.5	306.4	299.3
22.5°	604.2	602.6	594.0	570.2	529.2	476.0	400.1	392.0	382.9	369.2	361.1
25°	628.0	626.4	621.4	604.7	576.8	537.8	471.5	461.4	453.2	441.1	431.0
27.5°	652.8	651.8	647.7	633.0	618.3	594.0	543.9	538.3	520.6	513.5	503.9
30°	693.8	689.2	692.8	685.7	667.0	651.8	616.8	608.7	601.1	589.0	580.4
32.5°	759.1	751.5	759.1	751.5	743.4	725.2	691.8	689.2	681.6	674.0	661.9
35°	839.1	836.1	842.2	848.8	842.2	817.9	777.4	769.8	766.7	754.6	750.0
37.5°	919.7	925.2	936.4	951.1	947.0	929.3	872.1	865.0	859.4	848.8	840.7
40°	1006.3	1006.8	1030.6	1051.8	1062.5	1051.8	976.4	970.8	963.2	948.0	946.0
42.5°	1100.5	1096.4	1114.1	1137.9	1159.7	1174.4	1114.1	1103.5	1092.9	1075.6	1064.0
45°	1184.0	1184.0	1198.2	1220.5	1253.9	1290.9	1259.5	1248.3	1238.2	1224.0	1210.9
47.5°	1245.8	1246.3	1254.9	1287.3	1339.5	1394.7	1395.7	1397.7	1390.1	1373.4	1373.9
50°	1289.4	1283.8	1295.4	1326.8	1387.1	1473.7	1536.0	1539.5	1545.6	1531.9	1536.0
52.5°	1321.3	1318.7	1326.3	1352.7	1412.9	1518.8	1650.9	1666.1	1675.2	1677.3	1694.0
55°	1304.5	1306.1	1324.3	1362.3	1427.1	1548.6	1748.7	1773.5	1794.8	1813.0	1833.8
57.5°	1249.3	1253.9	1285.8	1345.1	1430.1	1572.9	1852.5	1890.5	1930.5	1979.1	2020.1
60°	1161.2	1171.9	1214.9	1298.0	1400.8	1541.0	1883.4	1941.6	2002.9	2076.8	2159.4
62.5°	1032.1	1034.1	1062.5	1143.0	1256.4	1371.4	1741.6	1816.0	1897.1	2003.9	2119.4
64°	855.3	873.6	886.7	975.4	1076.7	1220.0	1554.2	1605.9	1718.8	1850.0	1995.3
65°	706.0	727.7	738.4	827.0	943.0	1079.7	1391.1	1446.3	1565.4	1698.5	1879.8
67.5°	416.3	401.6	432.5	484.6	581.9	743.9	938.4	980.4	1069.1	1227.6	1372.4
70°	268.4	268.4	296.8	349.9	440.1	564.2	644.7	627.0	645.7	707.0	809.3
72.5°	172.2	181.3	198.5	243.6	327.1	473.0	658.9	575.3	531.7	511.5	510.5
75°	78.5	83.6	102.3	129.1	174.7	308.4	664.4	628.0	588.0	549.5	519.6
77.5°	16.7	19.2	32.4	66.8	85.1	142.3	471.5	526.2	569.7	582.4	582.4
80°	8.6	9.1	13.7	31.4	36.5	48.1	181.8	239.0	294.7	368.2	445.1
82.5°	3.5	4.1	8.1	14.2	15.2	14.7	48.1	60.8	83.6	121.5	181.3
85°	1.0	1.0	3.5	5.6	8.1	6.6	10.6	12.2	15.7	22.8	43.6
87.5°	0.0	0.0	0.5	1.0	1.5	2.5	3.0	3.0	3.0	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: P181210
 CATALOG NUMBER: ICS-E02-LED-E1-T2-HSS-8030

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
2.5°	62.3	62.3	61.8	61.3	61.3	60.3	60.3	59.8	59.8	59.3	59.3
5°	75.0	73.9	72.9	71.4	70.9	69.9	68.9	67.9	66.8	66.3	65.3
7.5°	93.2	92.2	89.1	87.1	84.6	83.1	81.0	79.5	78.0	77.0	75.0
10°	117.5	113.9	112.4	105.3	103.8	100.3	97.2	95.2	91.2	88.6	86.1
12.5°	151.9	145.3	142.8	130.7	127.1	122.0	118.5	113.4	108.9	105.8	101.3
15°	190.9	185.9	176.2	164.1	157.5	151.9	143.3	139.3	133.2	126.6	120.0
17.5°	237.5	228.4	217.8	202.1	194.0	185.4	177.2	168.6	158.5	152.4	145.3
20°	291.7	282.1	268.9	249.2	239.5	230.9	216.7	210.7	198.5	186.4	177.2
22.5°	351.0	341.3	328.7	306.4	293.7	279.5	267.9	257.3	243.1	230.9	220.3
25°	417.8	406.7	397.0	371.2	355.5	340.8	328.2	309.4	297.3	283.1	268.4
27.5°	493.8	480.6	467.9	439.6	424.9	408.7	393.5	373.7	362.1	338.8	325.1
30°	571.8	555.5	542.4	513.5	500.3	483.6	462.9	445.1	425.4	409.7	387.4
32.5°	653.8	640.6	630.0	599.6	582.9	562.1	543.4	524.7	507.4	482.1	461.9
35°	741.4	729.8	718.1	691.8	677.1	661.4	640.1	617.3	593.5	567.2	549.0
37.5°	833.6	824.5	815.3	783.4	766.2	749.5	725.2	702.4	681.1	653.3	622.4
40°	930.3	921.7	907.0	880.7	862.4	847.2	825.0	803.7	774.8	743.9	716.6
42.5°	1051.8	1033.1	1020.4	991.6	972.3	955.6	935.9	904.0	879.7	842.7	816.4
45°	1194.1	1176.4	1155.7	1126.3	1102.5	1075.1	1047.3	1025.5	995.1	961.7	927.8
47.5°	1354.2	1340.0	1315.7	1286.8	1263.0	1235.7	1202.8	1174.9	1137.9	1098.9	1052.9
50°	1530.4	1515.7	1499.5	1467.1	1443.3	1417.5	1391.6	1358.7	1325.3	1278.7	1231.1
52.5°	1694.0	1697.0	1687.4	1672.2	1660.6	1633.7	1609.9	1578.5	1549.1	1506.6	1469.6
55°	1855.5	1881.9	1892.0	1906.7	1911.7	1890.0	1889.5	1843.4	1825.7	1800.8	1779.6
57.5°	2068.7	2127.0	2173.1	2262.2	2299.7	2337.6	2344.7	2312.3	2345.7	2302.7	2317.4
60°	2250.0	2356.9	2471.3	2701.8	2817.2	2904.3	2974.2	3025.9	3059.3	3116.0	3119.1
62.5°	2266.2	2434.4	2608.6	2944.8	3102.8	3235.0	3361.1	3449.2	3519.1	3583.4	3599.1
64°	2188.8	2396.9	2608.6	3015.2	3176.8	3323.6	3438.6	3526.2	3597.6	3637.6	3664.0
65°	2048.0	2280.9	2524.5	2968.6	3135.3	3291.2	3401.1	3489.2	3556.6	3596.6	3624.0
67.5°	1517.2	1742.6	1987.2	2504.3	2766.6	2909.4	3050.2	3173.7	3227.9	3278.6	3288.2
70°	924.7	1088.3	1256.9	1736.5	1980.1	2236.9	2395.4	2576.2	2702.8	2780.8	2806.6
72.5°	558.1	614.8	715.6	973.3	1206.8	1387.1	1606.4	1779.1	1920.9	1999.4	2038.9
75°	496.8	489.7	502.9	610.2	693.3	801.7	881.2	989.5	1077.2	1104.5	1155.7
77.5°	574.3	554.0	533.3	513.0	509.0	498.8	482.6	486.7	448.2	411.2	412.2
80°	511.5	560.1	589.0	567.7	519.6	471.0	411.2	336.8	263.3	217.8	198.5
82.5°	256.8	365.1	469.5	572.8	565.7	522.6	456.8	375.3	290.7	223.3	178.3
85°	79.0	140.3	197.5	274.5	318.5	312.5	274.5	266.9	190.4	148.4	114.5
87.5°	3.5	3.5	3.5	3.0	3.5	3.5	3.5	4.1	4.1	4.6	4.6
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: P181210
 CATALOG NUMBER: ICS-E02-LED-E1-T2-HSS-8030

CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
2.5°	59.3	58.7	58.2	57.7	57.7	57.7	57.2	57.2	56.7	56.7	56.2
5°	65.3	64.3	63.8	62.8	62.8	61.8	61.3	60.8	59.8	59.3	58.7
7.5°	73.4	72.4	70.9	69.4	68.9	67.4	65.8	64.8	63.8	62.8	61.8
10°	84.1	82.0	79.0	77.0	75.5	73.4	71.4	69.9	67.9	65.8	64.8
12.5°	97.7	93.7	90.6	87.1	84.1	81.0	77.5	75.5	73.4	70.4	68.4
15°	113.4	109.4	105.8	99.8	94.7	90.6	87.6	83.1	79.5	75.5	72.4
17.5°	140.3	129.6	122.6	116.5	111.4	103.8	97.7	92.7	88.1	83.1	79.5
20°	166.6	157.5	147.9	140.8	129.6	123.1	115.0	107.9	99.8	93.7	87.6
22.5°	205.1	193.5	181.3	170.7	155.5	146.4	135.7	126.6	116.5	106.3	99.8
25°	253.7	236.5	220.3	205.1	190.9	177.2	163.6	148.9	138.3	126.1	115.0
27.5°	304.9	285.6	269.9	250.2	231.9	215.2	198.0	182.3	164.1	148.4	135.2
30°	369.2	342.8	324.6	300.8	282.6	259.3	238.0	217.3	195.0	176.7	158.0
32.5°	434.5	416.8	385.9	365.6	338.3	310.4	288.2	264.4	237.0	213.2	190.4
35°	520.6	490.2	464.4	436.0	406.2	377.3	348.4	314.5	286.6	257.3	229.4
37.5°	596.6	565.7	535.8	498.8	464.9	434.5	399.6	364.1	331.2	296.3	262.8
40°	684.7	646.2	610.7	576.3	534.3	498.3	461.9	417.8	379.8	341.3	301.8
42.5°	780.9	741.9	699.9	660.4	614.3	570.2	525.2	481.1	438.6	392.0	345.9
45°	886.2	845.2	798.1	753.0	702.9	654.3	600.6	550.0	499.8	447.7	394.5
47.5°	1016.9	964.2	920.7	864.5	802.2	751.0	685.2	627.5	570.2	509.5	449.7
50°	1186.0	1126.3	1063.5	1001.2	932.3	867.5	794.6	726.2	649.7	581.9	513.5
52.5°	1410.4	1365.8	1292.9	1221.5	1137.4	1054.9	954.6	866.0	767.7	681.1	597.6
55°	1728.9	1699.6	1636.2	1558.3	1484.8	1364.3	1248.8	1111.1	983.5	858.9	741.4
57.5°	2305.7	2273.8	2203.4	2184.7	2071.8	1983.1	1847.9	1669.7	1453.4	1263.0	1073.1
60°	3136.3	3074.0	3005.1	2992.4	2859.8	2766.6	2632.4	2442.5	2238.9	1935.0	1676.3
62.5°	3600.2	3581.4	3525.7	3457.3	3342.4	3204.1	3053.2	2869.4	2662.8	2396.4	2088.5
64°	3662.4	3645.2	3597.1	3520.1	3404.7	3267.4	3100.3	2917.0	2709.9	2466.8	2185.7
65°	3623.5	3599.1	3558.1	3487.2	3379.9	3248.2	3080.1	2894.2	2684.0	2450.1	2188.8
67.5°	3309.0	3297.8	3260.3	3194.5	3127.2	3008.7	2860.8	2694.7	2523.0	2291.1	2076.8
70°	2809.6	2801.5	2753.9	2727.6	2616.2	2541.2	2421.7	2291.1	2139.1	1977.6	1795.3
72.5°	2082.9	2055.6	2017.1	1977.1	1901.6	1798.8	1705.6	1566.4	1487.9	1351.6	1248.8
75°	1104.5	1087.3	1027.5	944.0	850.8	802.7	706.0	619.4	550.5	519.6	445.1
77.5°	381.8	347.9	314.5	277.0	219.8	173.2	138.3	110.4	87.1	77.0	64.3
80°	190.4	180.8	170.2	148.9	125.1	100.8	79.0	62.3	51.1	43.6	39.0
82.5°	154.5	136.7	122.0	106.9	85.6	70.4	55.7	45.6	37.5	32.9	28.9
85°	91.2	69.9	53.2	48.1	37.5	32.4	27.9	23.8	20.3	19.2	17.7
87.5°	3.5	4.6	4.6	3.5	4.6	4.1	4.1	3.5	3.5	3.5	3.5
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: P181210

CATALOG NUMBER: ICS-E02-LED-E1-T2-HSS-8030

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
2.5°	56.2	55.7	55.7	55.2	54.7	54.7	54.7	54.2	53.2	51.1	49.6
5°	58.2	57.7	57.2	56.2	55.7	55.2	54.7	54.7	52.2	48.6	46.1
7.5°	60.8	59.8	58.7	57.7	57.2	56.2	55.2	54.7	51.1	46.6	44.1
10°	63.3	61.8	60.3	59.8	58.2	57.2	55.7	54.7	50.6	45.1	41.5
12.5°	66.3	64.3	62.3	60.8	58.7	57.7	56.2	54.7	49.6	43.6	39.5
15°	69.9	66.8	64.3	62.8	60.8	58.2	56.2	54.7	48.6	42.0	37.5
17.5°	74.4	70.9	67.9	64.8	61.8	59.3	57.2	55.2	47.1	40.0	34.9
20°	81.5	77.0	71.9	68.4	64.3	61.3	57.7	55.2	46.1	38.0	32.9
22.5°	91.2	84.1	78.5	72.4	67.4	63.3	59.3	56.2	44.6	36.0	30.4
25°	104.8	95.7	86.6	79.0	72.4	66.8	61.8	57.7	43.6	34.4	28.9
27.5°	120.0	109.4	97.2	88.1	79.0	70.9	65.3	60.3	43.6	33.4	27.3
30°	141.3	126.1	111.4	99.8	87.6	78.5	70.4	63.8	43.6	32.9	25.8
32.5°	167.1	149.9	131.2	114.5	100.3	87.1	77.0	68.4	44.6	31.9	24.8
35°	203.1	177.8	155.5	134.7	116.0	100.8	87.6	76.0	46.1	31.4	23.3
37.5°	231.4	201.0	172.7	148.9	127.1	108.4	91.7	79.0	44.6	29.4	21.8
40°	265.4	230.9	196.5	166.6	141.8	117.5	98.2	83.1	43.6	26.8	19.8
42.5°	306.4	263.3	223.3	189.4	158.5	129.6	106.9	88.1	43.6	25.3	18.2
45°	344.9	297.8	253.2	210.7	174.7	142.8	115.0	93.7	43.0	23.8	16.2
47.5°	392.5	336.8	284.6	235.5	194.0	155.0	123.6	98.8	42.5	22.3	14.7
50°	448.7	380.8	322.1	263.3	212.7	169.7	133.7	104.3	41.5	20.8	13.2
52.5°	511.0	438.1	363.1	295.2	236.0	185.4	143.3	109.4	40.0	19.2	11.6
55°	621.4	521.1	432.5	348.4	271.4	208.6	157.5	117.0	38.5	17.7	10.1
57.5°	886.2	720.1	594.5	467.9	357.5	267.9	196.0	138.8	36.5	15.7	8.1
60°	1391.6	1117.7	904.5	709.5	540.9	411.2	288.7	205.1	39.0	13.2	7.1
62.5°	1785.1	1470.1	1198.7	954.1	740.9	563.1	420.3	306.4	56.2	11.6	5.6
64°	1887.9	1568.9	1279.2	1023.0	801.2	617.8	468.9	346.4	72.4	11.6	5.1
65°	1903.1	1599.3	1308.1	1048.3	821.9	632.5	483.1	359.6	79.0	12.2	4.6
67.5°	1840.3	1581.6	1316.7	1058.9	837.6	652.8	502.4	380.3	89.1	11.6	3.5
70°	1607.4	1417.0	1199.2	990.6	790.0	620.4	483.1	368.7	93.2	11.1	3.0
72.5°	1093.9	962.7	834.1	686.2	550.0	453.2	352.5	259.8	65.3	9.1	2.5
75°	364.6	355.5	318.0	241.1	202.6	164.6	131.7	101.3	24.8	5.6	2.5
77.5°	60.8	52.2	45.6	43.6	36.5	35.4	30.9	24.8	10.6	3.5	2.5
80°	35.4	32.4	28.4	25.3	22.3	19.8	16.7	14.2	6.6	2.5	3.0
82.5°	26.3	23.3	20.8	18.2	15.7	13.7	11.6	9.6	3.5	2.5	3.0
85°	15.2	13.2	11.6	10.1	8.1	7.1	6.1	5.1	2.5	2.5	2.5
87.5°	3.0	3.0	2.5	2.5	2.5	2.5	2.5	2.0	2.5	2.5	2.0
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: P181210

CATALOG NUMBER: ICS-E02-LED-E1-T2-HSS-8030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	54.2	54.2	54.2	54.2	54.2	54.2	54.2
2.5°	48.6	47.1	46.6	46.6	46.6	46.6	46.6
5°	44.6	43.0	42.0	41.5	41.5	41.5	41.5
7.5°	41.5	39.5	38.5	37.5	37.5	37.0	37.0
10°	38.5	36.5	34.9	33.9	33.4	33.4	33.4
12.5°	36.0	33.9	31.9	30.9	30.9	30.4	30.4
15°	33.9	30.9	29.4	28.4	28.4	27.9	27.9
17.5°	31.4	28.9	27.3	26.3	25.8	25.8	25.8
20°	28.9	26.3	24.8	24.3	23.8	23.8	23.3
22.5°	26.8	24.3	22.8	22.3	21.8	21.8	21.3
25°	24.8	22.3	20.8	20.3	19.8	19.2	19.2
27.5°	23.3	20.8	19.2	18.2	17.7	17.2	17.2
30°	21.8	18.7	17.2	16.2	15.7	15.2	15.2
32.5°	20.3	17.2	15.2	14.2	13.7	13.2	13.2
35°	18.2	15.2	13.2	12.7	12.2	11.6	11.1
37.5°	16.7	13.2	11.6	10.6	10.1	9.6	9.6
40°	14.7	11.6	10.1	9.1	8.1	7.6	7.6
42.5°	13.2	10.1	8.6	7.1	6.6	6.1	6.1
45°	11.6	9.1	7.1	5.6	5.1	4.6	4.6
47.5°	10.1	7.6	5.6	4.6	4.1	3.5	3.5
50°	8.6	6.1	4.1	3.0	3.5	3.0	3.0
52.5°	7.6	4.6	3.0	3.0	3.0	3.0	3.0
55°	6.1	3.5	2.5	2.5	3.0	3.0	3.0
57.5°	5.1	2.5	2.0	2.5	2.5	2.5	2.5
60°	3.5	2.0	2.0	2.5	2.5	2.5	2.5
62.5°	3.0	2.0	2.0	2.0	2.5	2.5	2.5
64°	2.5	2.0	2.0	2.0	2.5	2.5	2.5
65°	2.5	2.0	2.0	2.0	2.5	2.5	2.5
67.5°	2.5	2.0	2.0	2.0	2.5	2.5	2.5
70°	2.0	2.0	2.0	2.0	2.5	2.5	2.5
72.5°	2.0	2.0	2.0	2.0	2.5	2.5	2.5
75°	2.0	2.0	2.0	2.0	2.5	2.5	2.5
77.5°	2.0	2.0	2.0	2.5	2.5	2.5	2.5
80°	2.0	2.0	2.0	2.5	2.5	2.5	2.5
82.5°	2.0	2.0	2.0	2.5	2.5	2.5	2.5
85°	2.0	2.0	2.0	2.5	2.5	2.5	2.5
87.5°	2.0	2.0	2.0	2.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)