

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: P180417

Luminaire Tested: **ICS-E01-LED-E1-SL2-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180417
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-E01-LED-E1-SL2-HSS-7030
Description: ICON SITE SMALL LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1507.3 lumens
Efficiency: N/A
Efficacy: 61.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 24.7
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



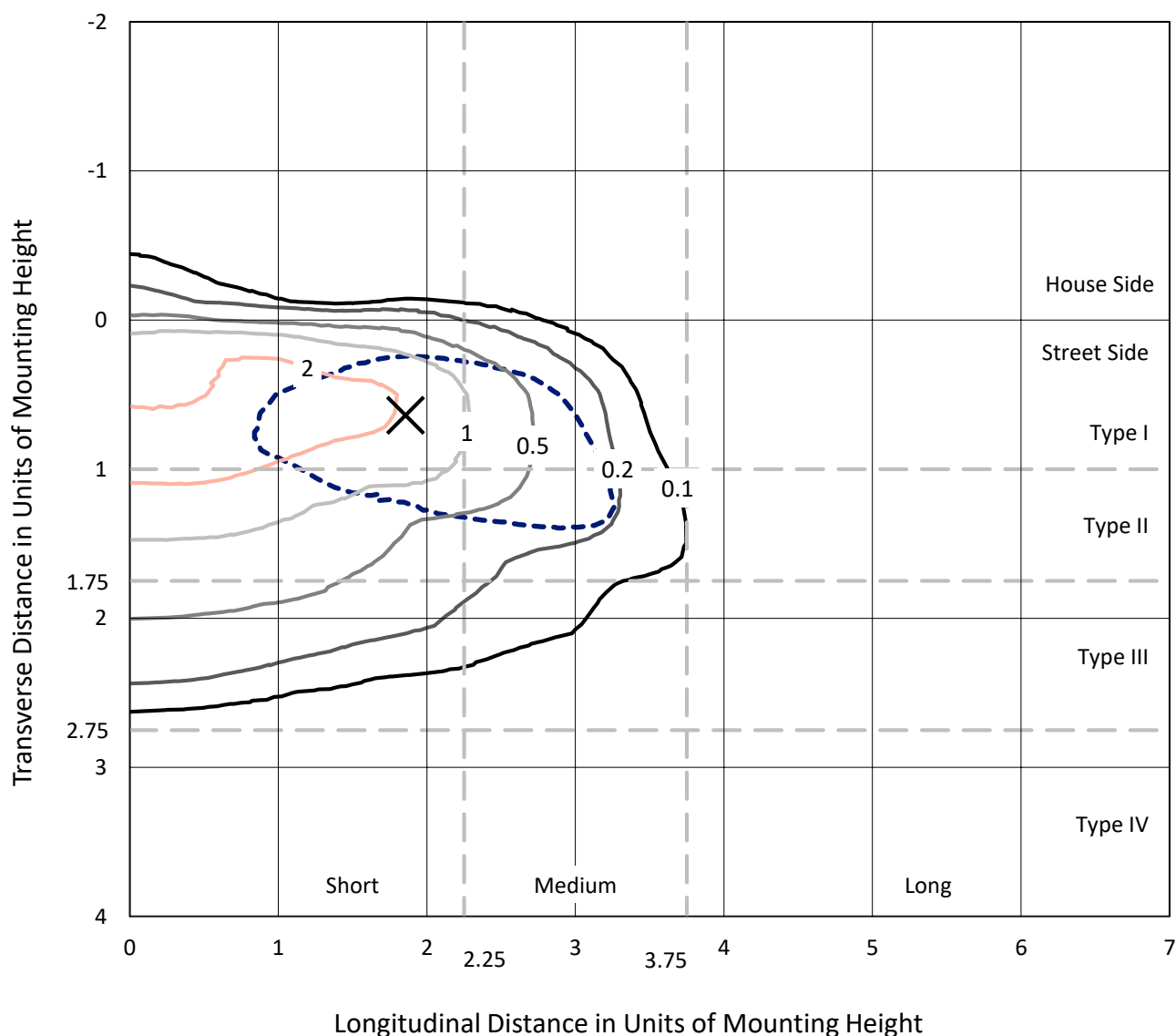
REPORT NUMBER: P180417

CATALOG NUMBER: ICS-E01-LED-E1-SL2-HSS-7030

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

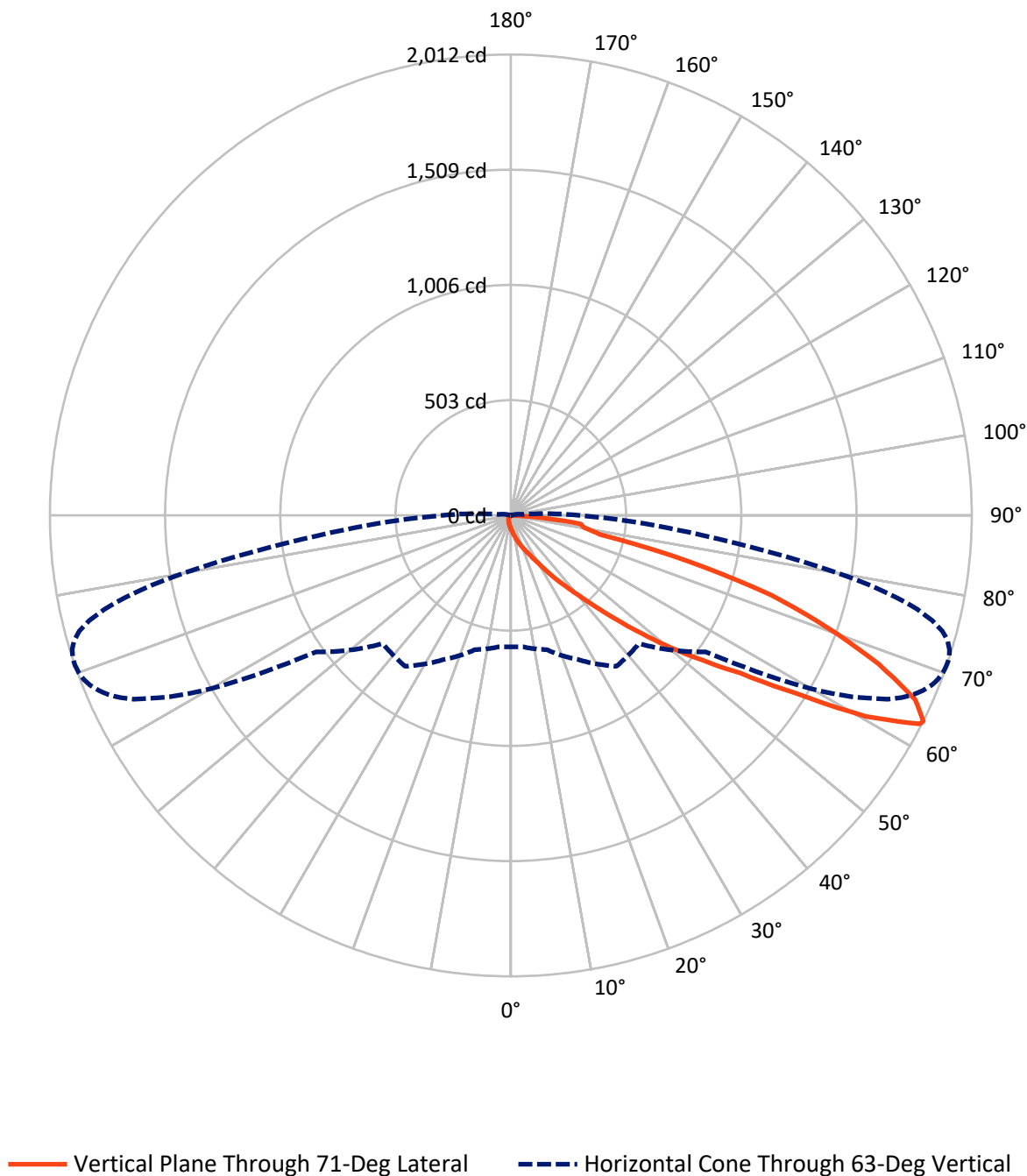


Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P180417

CATALOG NUMBER: ICS-E01-LED-E1-SL2-HSS-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P180417

CATALOG NUMBER: ICS-E01-LED-E1-SL2-HSS-7030

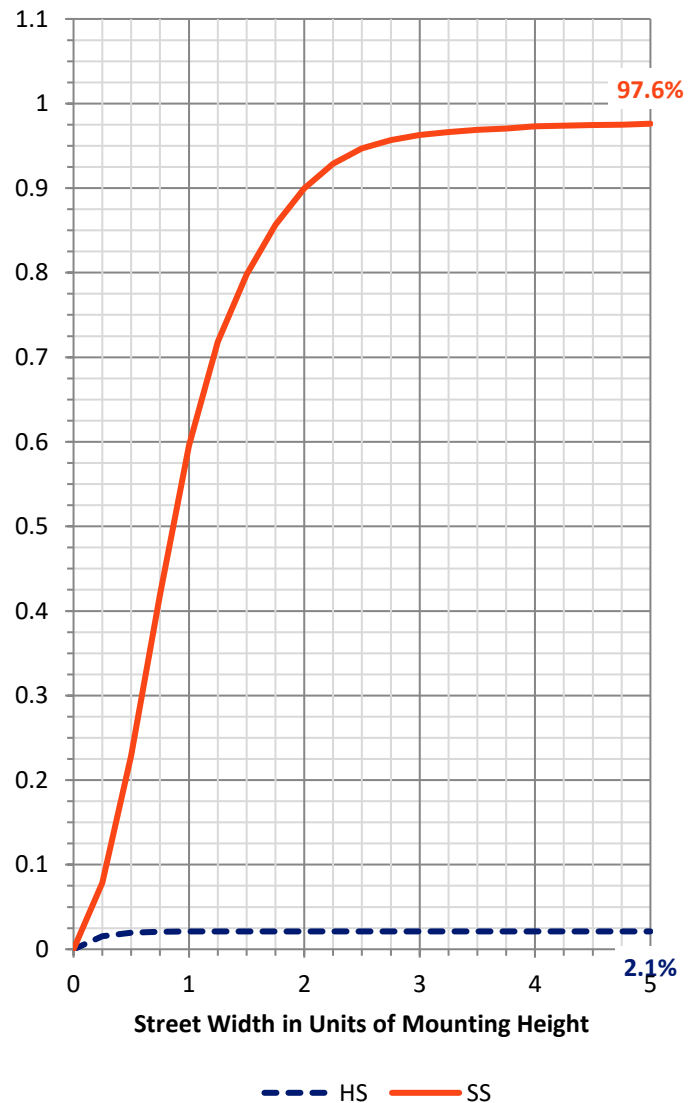
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32.0	0.0	32.0
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	1475.3	0.0	1475.3
	% Fixture	97.9	0.0	97.9
Total	Lumens	1507.3	0.0	1507.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.4	0.4
10°-20°	24.8	1.6
20°-30°	50.3	3.3
30°-40°	123.0	8.2
40°-50°	275.1	18.2
50°-60°	386.8	25.7
60°-70°	454.8	30.2
70°-80°	164.2	10.9
80°-90°	22.0	1.5
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°	1507.3	100.0
0°-180°	1507.3	100.0

Coefficient of Utilization



REPORT NUMBER: P180417

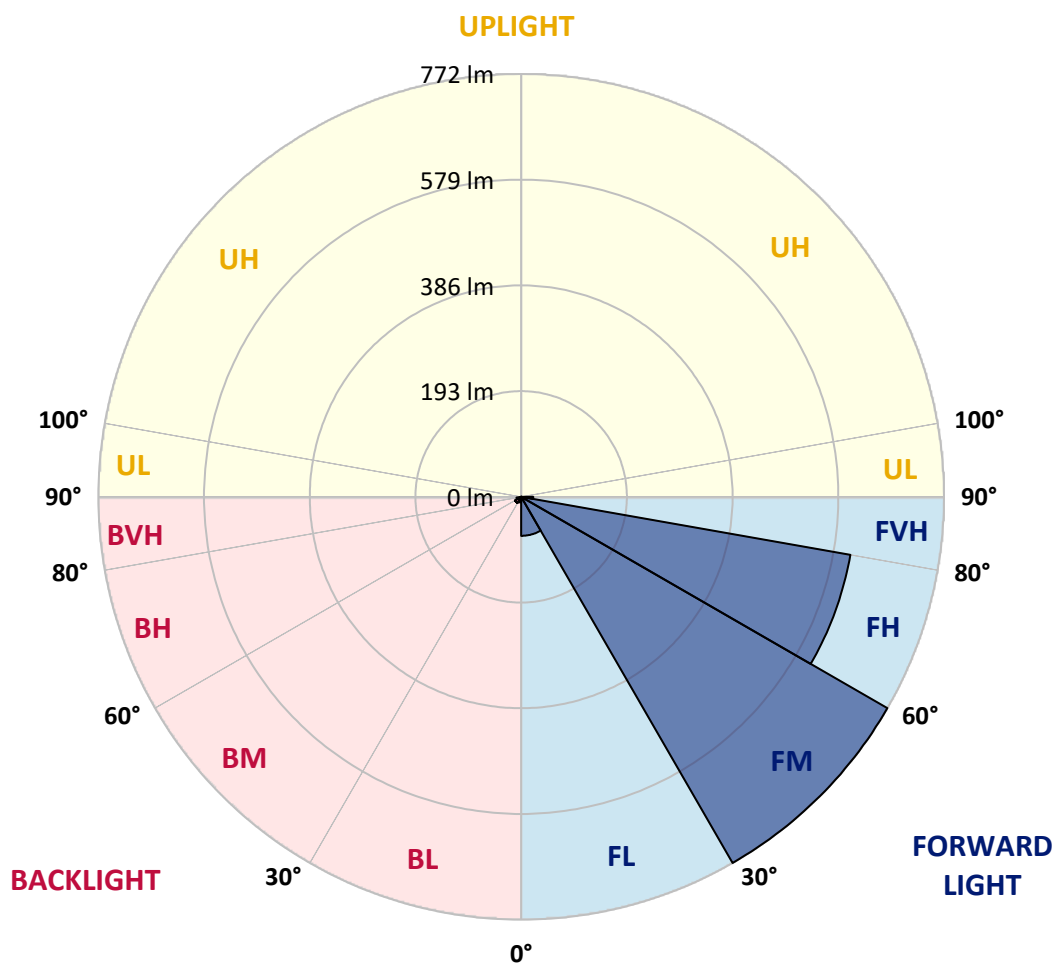
CATALOG NUMBER: ICS-E01-LED-E1-SL2-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	71.2	4.7			
FM	(30°-60°)	771.9	51.2			
FH	(60°-80°)	610.2	40.5			G0/660
FVH	(80°-90°)	21.9	1.5			G1/100
BL	(0°-30°)	10.3	0.7	B0/110		
BM	(30°-60°)	12.9	0.9	B0/220		
BH	(60°-80°)	8.8	0.6	B0/110		G0/110
BVH	(80°-90°)	0.0	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: P180417

CATALOG NUMBER: ICS-E01-LED-E1-SL2-HSS-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
2.5°	75.6	76.5	75.9	74.5	72.9	70.7	68.8	68.8	68.5	67.7	68.0
5°	99.2	99.5	98.4	95.1	92.1	87.4	82.2	81.7	81.1	80.3	80.0
7.5°	122.2	123.3	122.2	118.7	112.6	105.5	97.3	96.5	94.8	94.8	93.7
10°	145.8	145.8	144.7	140.6	135.1	125.0	114.5	113.2	111.3	110.7	109.1
12.5°	162.5	162.5	161.9	159.8	155.4	146.3	133.7	132.4	129.9	129.1	127.1
15°	169.1	169.1	169.3	171.3	171.5	167.4	154.3	153.2	150.7	148.5	147.7
17.5°	173.2	172.9	172.9	175.6	180.6	183.3	174.8	173.7	171.0	169.9	167.2
20°	182.2	181.7	180.0	180.0	184.7	194.3	194.3	194.0	191.0	190.2	188.8
22.5°	195.7	195.1	190.2	186.1	188.3	200.3	211.5	211.0	209.9	208.8	208.0
25°	217.6	215.7	207.2	195.1	193.2	206.1	224.7	226.1	226.9	226.9	227.4
27.5°	250.7	248.3	233.2	210.7	202.2	215.4	239.2	242.0	244.4	245.0	247.4
30°	296.8	292.4	270.7	237.8	218.4	229.1	260.6	263.6	267.2	268.3	272.1
32.5°	372.4	369.9	349.1	299.8	258.1	255.9	290.5	294.3	299.0	300.9	305.5
35°	487.5	488.0	471.0	426.6	369.1	339.0	343.9	347.2	348.8	354.6	357.0
37.5°	565.6	566.9	570.8	553.2	512.1	481.5	442.8	446.4	437.9	438.7	439.0
40°	608.3	612.7	635.2	652.2	648.9	631.1	600.1	602.0	586.1	582.6	565.3
42.5°	636.8	642.6	678.5	731.1	757.9	774.1	767.0	766.2	753.8	749.2	734.6
45°	654.6	659.8	705.1	782.6	844.5	891.7	911.1	913.3	902.9	898.2	886.2
47.5°	653.8	659.8	708.3	801.8	893.0	968.4	1023.2	1025.9	1032.2	1028.1	1028.9
50°	617.6	623.4	672.2	769.2	878.8	1003.5	1103.8	1112.5	1122.7	1129.5	1132.8
52.5°	573.8	577.9	621.2	713.3	817.9	988.9	1151.4	1166.5	1181.6	1194.5	1203.5
55°	557.6	562.3	596.3	672.7	769.2	928.1	1173.6	1195.8	1217.2	1238.3	1255.6
57.5°	566.1	570.5	594.9	653.5	740.1	864.0	1179.9	1214.5	1249.5	1283.8	1317.8
60°	597.4	602.0	622.8	671.3	732.5	827.0	1155.3	1212.5	1270.9	1330.6	1386.8
62.5°	585.0	587.0	617.6	702.6	787.3	795.5	1065.7	1145.7	1234.7	1326.8	1417.5
63°	573.2	575.4	606.7	694.1	804.0	790.8	1038.0	1122.4	1216.4	1315.6	1414.2
65°	519.8	520.1	543.9	613.0	785.3	799.0	914.7	995.2	1103.2	1222.1	1346.8
67.5°	388.0	386.1	409.1	461.7	616.5	799.3	785.1	830.3	905.4	1010.9	1122.7
70°	137.6	134.5	171.8	244.7	384.2	653.8	674.6	677.7	698.5	755.5	825.6
72.5°	44.7	45.5	54.8	89.6	177.0	440.1	610.8	601.5	596.0	595.7	605.0
75°	17.8	18.1	21.9	39.7	79.5	212.1	534.9	540.1	542.0	544.8	547.8
77.5°	8.5	9.3	12.3	22.2	39.5	104.9	382.8	426.9	452.1	471.6	483.4
80°	3.0	3.6	6.9	13.7	18.4	48.2	201.7	243.3	280.3	328.0	369.1
82.5°	0.0	0.0	1.4	9.6	10.1	19.5	82.8	97.0	111.0	143.9	184.7
85°	0.0	0.0	0.0	2.7	3.0	3.3	28.0	33.7	37.8	44.1	51.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	1.6	4.1	6.3
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: P180417

CATALOG NUMBER: ICS-E01-LED-E1-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
2.5°	67.4	67.1	67.1	66.6	66.3	65.8	65.5	64.7	64.4	64.4	64.4
5°	79.7	78.6	78.1	76.7	75.9	75.6	74.3	73.7	72.9	73.2	71.8
7.5°	93.4	91.5	90.7	88.8	88.2	86.3	85.8	84.4	83.6	81.9	81.4
10°	108.5	106.0	104.7	101.7	100.8	99.5	97.8	96.2	94.8	93.2	92.3
12.5°	125.8	123.6	122.5	118.4	116.5	114.5	112.3	110.2	108.0	106.6	104.7
15°	146.1	142.5	141.4	137.6	134.3	131.8	128.8	126.0	124.4	121.7	119.7
17.5°	166.1	162.5	161.7	155.9	152.4	150.7	147.4	143.9	140.8	138.1	135.1
20°	186.1	183.6	181.4	175.9	172.1	169.3	165.0	161.4	158.9	155.1	151.3
22.5°	206.1	203.6	202.0	196.2	192.6	188.8	185.0	181.1	177.6	172.9	168.5
25°	226.6	225.0	224.1	218.9	215.7	212.1	208.3	203.9	199.5	194.3	189.6
27.5°	248.0	248.5	246.9	245.8	242.2	239.8	233.7	230.7	227.4	221.1	215.4
30°	275.1	276.8	276.2	277.0	274.8	273.2	268.5	264.7	260.9	254.8	248.3
32.5°	309.4	311.6	312.7	315.7	314.6	314.0	312.7	307.2	304.4	294.0	291.3
35°	362.3	361.2	365.8	368.3	367.2	366.6	365.0	362.0	358.7	351.3	344.4
37.5°	431.0	432.1	433.8	428.8	425.6	425.3	420.3	417.3	412.7	404.5	396.2
40°	557.1	550.2	542.6	521.7	512.7	507.5	493.0	488.9	480.9	469.7	461.2
42.5°	720.9	714.1	691.1	656.3	637.6	611.9	600.1	585.6	574.3	556.0	546.1
45°	883.7	864.0	861.2	820.7	797.7	763.7	742.6	718.2	692.7	668.6	651.1
47.5°	1021.0	1016.6	1003.2	978.5	957.2	928.7	901.5	864.0	837.7	803.4	771.9
50°	1130.9	1130.6	1125.7	1111.4	1093.6	1070.6	1046.8	1015.0	985.1	943.2	909.5
52.5°	1213.1	1217.5	1219.1	1214.7	1207.9	1187.6	1175.5	1149.0	1123.8	1088.1	1051.7
55°	1273.4	1289.5	1297.8	1307.1	1305.2	1298.0	1297.5	1280.2	1268.7	1240.5	1214.7
57.5°	1347.9	1374.5	1400.0	1445.2	1446.8	1462.7	1470.9	1479.2	1481.4	1470.1	1461.6
60°	1442.7	1497.0	1545.2	1639.7	1664.4	1703.3	1728.5	1755.9	1779.2	1781.1	1780.6
62.5°	1509.6	1593.2	1671.0	1811.3	1859.2	1904.2	1937.9	1964.4	1980.6	1997.1	2004.7
63°	1511.5	1603.0	1685.8	1830.5	1880.9	1923.6	1955.7	1980.3	1997.3	2007.2	2012.1
65°	1465.2	1576.2	1674.8	1818.9	1866.4	1909.4	1926.1	1942.3	1950.5	1954.3	1939.8
67.5°	1241.9	1350.4	1465.5	1626.6	1667.1	1718.7	1732.4	1740.6	1744.4	1743.6	1731.3
70°	928.7	1019.6	1147.6	1331.7	1385.4	1435.9	1467.1	1480.5	1484.9	1483.5	1465.2
72.5°	648.3	701.8	807.3	1012.2	1085.4	1150.1	1188.7	1208.7	1212.8	1204.6	1187.6
75°	544.5	547.2	571.1	683.1	751.6	820.7	864.3	876.9	868.6	843.7	800.4
77.5°	486.1	492.1	492.1	508.9	522.3	541.5	545.6	514.9	479.3	433.2	396.0
80°	407.7	428.8	443.6	456.0	457.3	453.5	443.4	426.1	398.7	363.6	324.7
82.5°	247.7	289.4	306.4	369.9	401.2	422.3	420.6	397.6	376.8	340.3	307.2
85°	62.5	67.4	73.2	95.1	106.6	130.2	145.0	151.8	154.3	141.7	128.2
87.5°	6.0	4.1	6.9	5.2	7.4	5.5	7.4	6.9	8.5	9.0	9.9
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: P180417

CATALOG NUMBER: ICS-E01-LED-E1-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
2.5°	63.8	63.6	63.3	63.0	62.8	62.5	61.9	61.9	61.4	61.1	60.8
5°	71.0	70.4	70.1	69.6	68.8	68.2	67.4	66.3	65.5	65.2	64.7
7.5°	80.0	78.6	78.1	77.3	76.2	74.5	73.4	72.6	71.2	70.4	68.8
10°	90.2	88.8	87.1	85.5	83.9	81.9	80.6	79.5	77.3	76.2	74.3
12.5°	103.0	100.6	98.6	96.5	94.3	92.1	90.4	87.1	85.2	82.8	81.1
15°	116.2	114.0	111.8	109.1	105.8	102.2	100.6	97.6	95.1	91.2	89.1
17.5°	132.1	128.0	124.7	121.4	118.4	115.1	111.8	107.1	103.6	100.3	95.9
20°	147.7	142.8	139.2	134.8	130.4	125.2	121.4	118.1	113.2	108.8	104.1
22.5°	164.4	159.5	153.7	149.3	143.3	139.2	134.0	128.5	123.6	117.8	112.1
25°	184.7	179.5	172.9	167.2	160.3	154.5	148.2	141.9	135.9	129.3	121.9
27.5°	209.6	204.1	197.0	190.2	181.1	174.0	168.0	159.5	151.8	143.6	135.1
30°	241.1	235.1	226.3	216.5	207.4	199.5	191.0	179.8	171.3	161.4	150.4
32.5°	282.2	275.1	263.3	254.0	242.8	232.4	220.6	209.4	197.3	184.4	171.8
35°	334.0	327.5	313.8	300.1	287.7	275.4	260.6	247.7	230.7	215.1	198.9
37.5°	387.7	376.0	363.4	348.6	333.2	318.4	300.3	282.5	263.1	246.1	225.8
40°	449.1	434.9	424.5	408.6	386.9	365.8	349.1	326.9	302.5	279.8	255.9
42.5°	533.2	517.3	498.7	474.6	459.0	434.3	412.7	386.4	354.3	328.8	300.1
45°	630.5	608.9	590.8	567.5	548.6	517.9	492.7	457.6	425.6	392.1	357.0
47.5°	741.5	714.6	688.3	665.3	635.2	605.0	573.0	535.7	494.6	457.9	416.2
50°	868.9	830.8	794.4	764.8	723.4	688.6	653.8	611.9	566.4	524.2	476.8
52.5°	1010.6	966.5	918.2	872.8	824.8	780.1	738.2	690.0	639.3	587.8	534.9
55°	1181.6	1148.4	1091.7	1033.9	969.8	910.0	856.0	796.3	734.6	667.0	611.3
57.5°	1449.3	1433.1	1385.7	1327.9	1244.3	1171.7	1080.2	1007.0	917.7	824.5	752.7
60°	1812.1	1792.1	1765.5	1718.7	1652.3	1553.7	1452.9	1339.1	1203.2	1074.2	951.7
62.5°	2005.6	1998.4	1976.8	1944.4	1882.5	1804.7	1703.0	1578.1	1424.6	1267.9	1111.7
63°	2011.3	2002.3	1983.6	1950.7	1896.2	1820.9	1721.1	1599.7	1449.6	1289.8	1130.3
65°	1933.5	1929.9	1911.0	1875.1	1837.9	1780.3	1703.0	1598.6	1472.6	1321.6	1162.9
67.5°	1714.8	1704.1	1675.1	1664.1	1638.1	1598.1	1539.2	1467.4	1377.2	1258.6	1121.6
70°	1450.4	1434.5	1398.1	1378.6	1346.8	1321.6	1285.7	1234.5	1178.8	1096.1	993.9
72.5°	1170.1	1137.2	1103.8	1053.1	1008.7	963.7	924.0	887.8	826.7	793.3	715.7
75°	759.9	700.1	642.9	566.1	497.1	436.0	376.5	346.4	283.6	258.1	221.7
77.5°	360.6	327.2	282.2	247.4	203.0	165.8	135.4	101.7	79.7	62.5	47.7
80°	291.0	262.8	235.7	204.1	170.7	136.2	104.4	78.1	55.4	38.4	27.1
82.5°	259.5	228.8	195.4	173.7	151.0	123.6	101.4	82.8	61.1	44.7	30.4
85°	100.8	84.9	65.5	53.4	41.7	34.3	31.0	21.4	16.7	13.2	10.1
87.5°	8.8	7.1	5.8	3.8	4.1	2.2	2.5	1.6	1.4	1.4	1.1
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: P180417

CATALOG NUMBER: ICS-E01-LED-E1-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
2.5°	60.6	60.3	60.0	59.5	59.5	58.9	58.6	58.4	57.0	54.0	51.5
5°	63.6	63.0	62.5	61.7	61.1	60.3	59.7	58.9	55.9	50.1	45.2
7.5°	68.0	66.9	66.0	64.4	63.6	62.5	61.7	60.3	55.4	46.6	39.7
10°	73.2	71.2	69.9	68.0	66.3	64.9	63.6	61.7	54.8	42.7	34.8
12.5°	79.5	77.3	74.5	72.3	70.1	68.2	66.3	63.8	54.0	39.5	31.0
15°	85.8	82.5	80.6	77.5	74.5	71.8	69.1	66.9	54.3	35.9	27.7
17.5°	92.9	89.6	85.5	82.2	78.9	75.4	72.1	67.7	52.9	33.2	25.2
20°	99.7	95.1	91.2	87.1	82.5	78.1	74.0	70.1	51.8	30.4	23.0
22.5°	107.1	101.7	96.7	91.5	85.8	80.8	75.9	71.0	49.9	28.0	21.1
25°	116.2	109.9	102.8	96.5	90.4	84.4	78.1	72.1	48.0	25.8	19.7
27.5°	127.1	118.9	111.8	103.9	95.4	87.7	80.8	74.3	46.0	24.1	18.4
30°	141.1	131.5	121.4	111.3	102.2	93.4	83.9	75.6	44.1	22.5	17.0
32.5°	159.8	147.7	135.4	123.6	111.5	100.3	90.2	79.5	43.0	21.1	15.6
35°	184.4	168.8	153.7	138.9	124.4	110.7	97.6	85.5	43.0	19.5	14.0
37.5°	207.7	189.6	170.4	152.1	134.8	118.9	103.3	88.8	40.8	18.1	12.6
40°	232.9	211.3	188.8	167.2	146.3	126.6	108.8	92.1	38.9	16.4	11.2
42.5°	271.6	244.2	214.8	189.6	164.7	140.3	118.1	98.4	36.4	14.8	9.9
45°	322.2	287.4	252.9	222.2	190.4	160.6	134.3	109.9	35.9	13.4	8.5
47.5°	376.5	335.4	294.8	255.7	218.4	183.6	152.1	122.8	35.9	12.1	7.4
50°	430.5	379.0	335.7	290.2	248.3	207.2	169.6	136.2	36.2	11.0	6.0
52.5°	479.3	424.2	375.7	323.1	276.8	229.1	188.3	149.3	35.6	9.6	4.9
55°	546.9	482.3	426.1	368.0	313.8	260.0	213.7	169.1	35.9	8.5	4.1
57.5°	671.6	595.7	528.0	451.9	389.4	320.1	263.9	209.6	39.2	7.1	3.0
60°	850.6	751.9	656.8	563.9	484.5	402.0	329.1	265.3	46.0	5.8	2.2
62.5°	970.9	841.8	728.3	625.9	533.5	447.2	367.7	295.1	50.7	4.7	1.4
63°	983.2	849.7	735.7	630.0	535.7	449.4	369.4	297.3	51.0	4.4	1.4
65°	1006.5	863.4	739.9	630.8	533.5	446.4	368.3	297.0	51.5	3.6	1.1
67.5°	979.9	842.3	716.0	607.2	514.3	428.6	354.6	286.1	51.2	2.5	0.8
70°	876.3	762.3	651.3	550.0	465.6	388.0	322.8	260.9	47.1	1.6	0.5
72.5°	643.4	565.9	479.8	406.6	350.7	291.3	248.5	195.9	36.4	1.1	0.3
75°	190.7	173.7	146.1	128.8	113.7	94.0	83.6	65.2	18.6	0.5	0.0
77.5°	38.1	34.5	31.0	28.2	26.6	22.7	21.6	17.8	7.7	0.3	0.0
80°	20.0	16.4	14.0	12.3	10.7	8.8	7.4	6.0	1.4	0.0	0.0
82.5°	19.2	12.9	9.3	7.7	6.6	5.2	4.1	3.0	0.8	0.0	0.0
85°	7.1	5.5	4.1	3.3	2.7	2.5	1.9	1.6	0.0	0.0	0.0
87.5°	1.1	0.8	0.8	0.5	0.5	0.3	0.3	0.3	0.0	0.0	0.0
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: P180417

CATALOG NUMBER: ICS-E01-LED-E1-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	57.8	57.8	57.8	57.8	57.8	57.8	57.8
2.5°	49.0	46.9	45.8	44.4	44.4	44.1	44.7
5°	40.8	37.8	35.6	34.0	34.3	33.4	33.7
7.5°	34.5	31.5	29.6	28.5	28.2	28.0	28.0
10°	29.9	27.1	25.5	24.7	24.4	24.4	24.4
12.5°	26.6	23.8	22.5	21.9	21.9	21.6	21.6
15°	23.8	21.6	20.3	19.7	19.7	19.5	19.7
17.5°	21.6	19.5	18.4	17.8	17.8	17.5	17.5
20°	19.7	17.8	16.7	15.9	15.9	15.6	15.9
22.5°	18.1	16.2	14.8	14.2	14.0	13.7	14.0
25°	16.4	14.5	13.2	12.3	12.1	12.1	11.8
27.5°	15.1	13.2	11.5	10.7	10.4	10.4	10.1
30°	13.7	11.5	9.9	9.0	8.8	8.8	8.8
32.5°	12.3	9.9	8.5	7.7	7.4	7.4	7.4
35°	11.0	8.5	7.1	6.3	6.0	6.0	6.0
37.5°	9.3	7.1	5.5	4.9	4.7	4.4	4.4
40°	7.9	5.5	4.1	3.6	3.0	3.0	3.0
42.5°	6.6	4.4	3.0	2.2	1.9	1.6	1.9
45°	5.5	3.3	1.9	1.1	0.8	0.8	0.8
47.5°	4.4	2.2	0.8	0.3	0.3	0.3	0.3
50°	3.3	1.4	0.3	0.0	0.0	0.3	0.3
52.5°	2.5	0.8	0.0	0.0	0.0	0.0	0.0
55°	1.4	0.3	0.0	0.0	0.0	0.0	0.0
57.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.5	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.3	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)