

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: P180427

Luminaire Tested: **ICS-E02-LED-E1-SL2-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180427
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-E02-LED-E1-SL2-HSS-7030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3014.6 lumens
Efficiency: N/A
Efficacy: 57.9 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

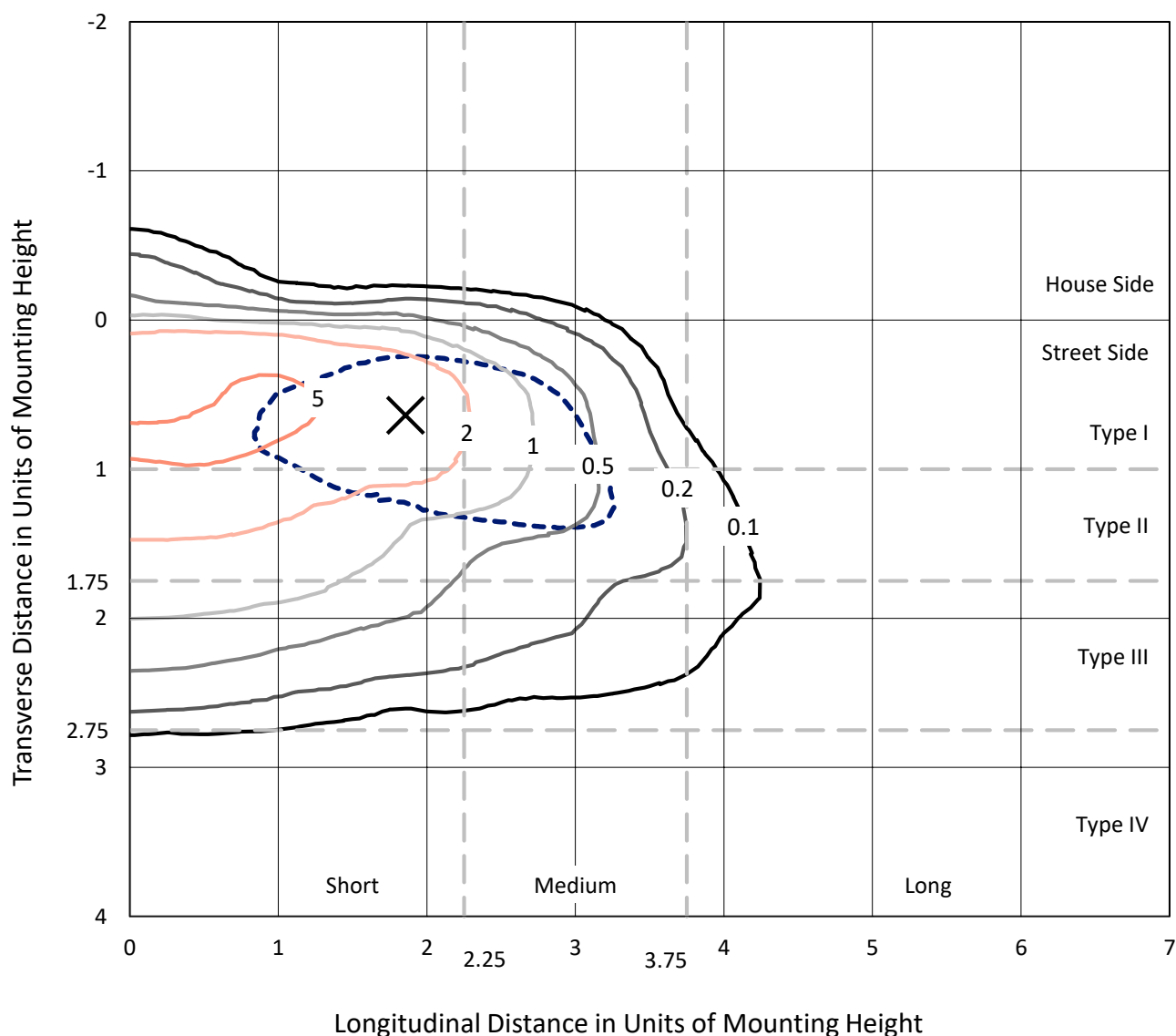


REPORT NUMBER: P180427

CATALOG NUMBER: ICS-E02-LED-E1-SL2-HSS-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

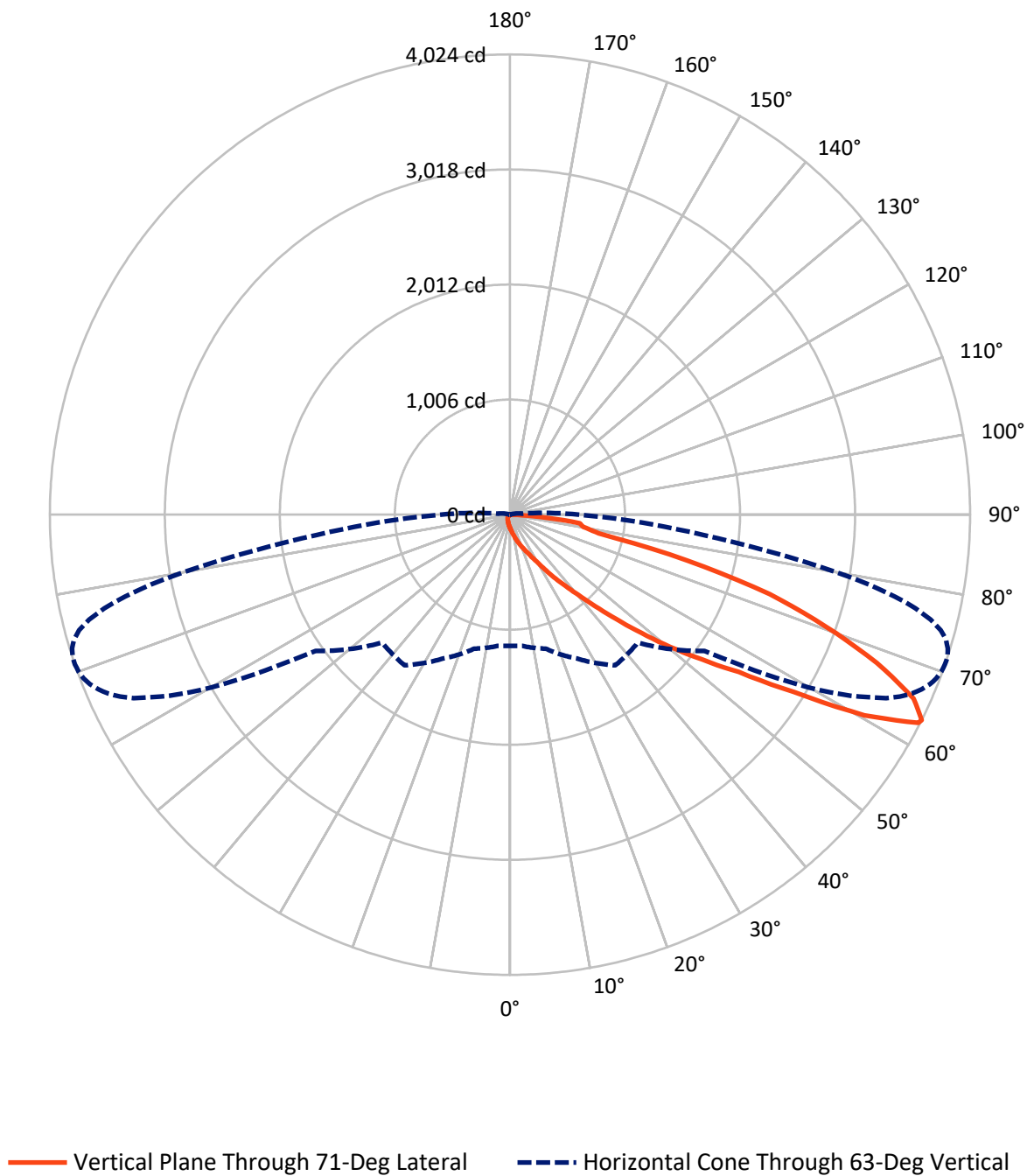


Based on 10 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P180427

CATALOG NUMBER: ICS-E02-LED-E1-SL2-HSS-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P180427

CATALOG NUMBER: ICS-E02-LED-E1-SL2-HSS-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	64.0	0.0	64.0
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	2950.6	0.0	2950.6
	% Fixture	97.9	0.0	97.9
Total	Lumens	3014.6	0.0	3014.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.8	0.4
10°-20°	49.6	1.6
20°-30°	100.7	3.3
30°-40°	246.0	8.2
40°-50°	550.1	18.2
50°-60°	773.5	25.7
60°-70°	909.6	30.2
70°-80°	328.4	10.9
80°-90°	43.9	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°	3014.6	100.0
0°-180°	3014.6	100.0

Coefficient of Utilization



REPORT NUMBER: P180427

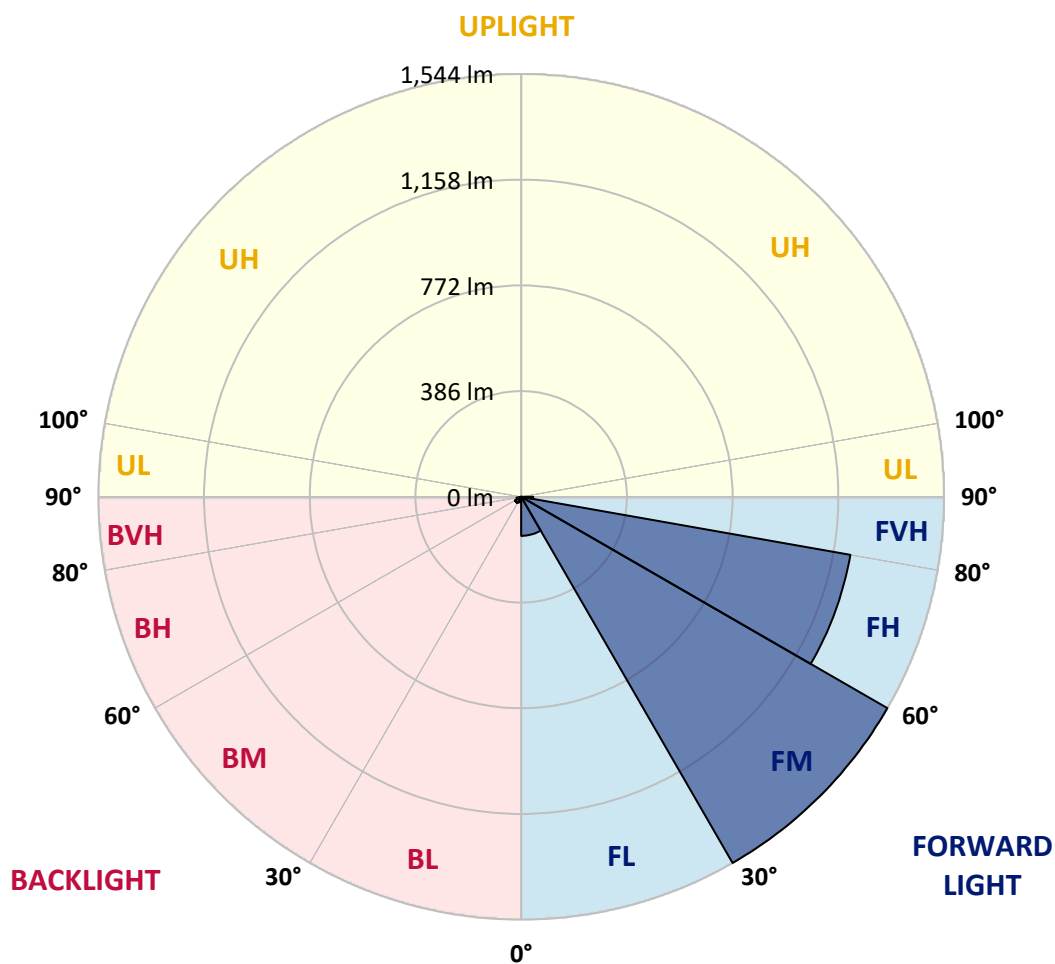
CATALOG NUMBER: ICS-E02-LED-E1-SL2-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	142.5	4.7			
FM	(30°-60°)	1543.8	51.2			
FH	(60°-80°)	1220.5	40.5			G1/1800
FVH	(80°-90°)	43.8	1.5			G1/100
BL	(0°-30°)	20.6	0.7	B0/110		
BM	(30°-60°)	25.8	0.9	B0/220		
BH	(60°-80°)	17.5	0.6	B0/110		G0/110
BVH	(80°-90°)	0.1	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: P180427

CATALOG NUMBER: ICS-E02-LED-E1-SL2-HSS-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6
2.5°	151.3	152.9	151.8	149.1	145.8	141.4	137.6	137.6	137.0	135.4	135.9
5°	198.4	198.9	196.7	190.2	184.1	174.8	164.4	163.3	162.2	160.6	160.0
7.5°	244.4	246.6	244.4	237.3	225.2	211.0	194.6	192.9	189.6	189.6	187.4
10°	291.6	291.6	289.4	281.1	270.2	249.9	229.1	226.3	222.5	221.4	218.1
12.5°	325.0	325.0	323.9	319.5	310.7	292.7	267.4	264.7	259.8	258.1	254.3
15°	338.1	338.1	338.7	342.5	343.1	334.9	308.5	306.4	301.4	297.0	295.4
17.5°	346.4	345.8	345.8	351.3	361.2	366.6	349.6	347.5	342.0	339.8	334.3
20°	364.4	363.4	360.1	360.1	369.4	388.6	388.6	388.0	382.0	380.3	377.6
22.5°	391.3	390.2	380.3	372.1	376.5	400.6	423.1	422.0	419.8	417.6	416.0
25°	435.1	431.3	414.3	390.2	386.4	412.1	449.4	452.1	453.8	453.8	454.9
27.5°	501.5	496.5	466.4	421.4	404.5	430.8	478.4	483.9	488.9	489.9	494.9
30°	593.5	584.8	541.5	475.7	436.8	458.2	521.2	527.2	534.3	536.5	544.2
32.5°	744.8	739.9	698.2	599.6	516.3	511.9	580.9	588.6	597.9	601.7	611.1
35°	975.0	976.1	942.1	853.3	738.2	677.9	687.8	694.4	697.7	709.2	714.1
37.5°	1131.2	1133.9	1141.6	1106.5	1024.3	962.9	885.6	892.8	875.8	877.4	878.0
40°	1216.6	1225.4	1270.4	1304.3	1297.8	1262.1	1200.2	1204.0	1172.3	1165.1	1130.6
42.5°	1273.6	1285.2	1356.9	1462.2	1515.9	1548.2	1534.0	1532.3	1507.7	1498.3	1469.3
45°	1309.3	1319.7	1410.1	1565.2	1689.1	1783.3	1822.2	1826.6	1805.8	1796.5	1772.4
47.5°	1307.6	1319.7	1416.7	1603.6	1786.1	1936.8	2046.4	2051.9	2064.5	2056.2	2057.9
50°	1235.3	1246.8	1344.3	1538.3	1757.6	2006.9	2207.5	2225.0	2245.3	2259.0	2265.6
52.5°	1147.6	1155.8	1242.4	1426.5	1635.9	1977.9	2302.9	2333.0	2363.1	2388.9	2407.0
55°	1115.3	1124.6	1192.5	1345.4	1538.3	1856.2	2347.3	2391.6	2434.4	2476.6	2511.1
57.5°	1132.3	1141.0	1189.8	1307.1	1480.3	1728.0	2359.9	2428.9	2499.1	2567.6	2635.5
60°	1194.7	1204.0	1245.7	1342.7	1464.9	1654.0	2310.5	2425.1	2541.8	2661.3	2773.6
62.5°	1170.1	1173.9	1235.3	1405.2	1574.5	1591.0	2131.3	2291.4	2469.5	2653.6	2835.0
63°	1146.5	1150.9	1213.4	1388.2	1607.9	1581.6	2076.0	2244.8	2432.7	2631.1	2828.4
65°	1039.6	1040.2	1087.9	1226.0	1570.7	1598.1	1829.4	1990.5	2206.4	2444.3	2693.6
67.5°	776.0	772.2	818.2	923.4	1233.1	1598.6	1570.1	1660.6	1810.7	2021.7	2245.3
70°	275.1	269.1	343.6	489.4	768.4	1307.6	1349.3	1355.3	1397.0	1510.9	1651.2
72.5°	89.3	91.0	109.6	179.2	354.0	880.2	1221.6	1202.9	1192.0	1191.4	1210.1
75°	35.6	36.2	43.8	79.5	158.9	424.2	1069.8	1080.2	1084.0	1089.5	1095.5
77.5°	17.0	18.6	24.7	44.4	78.9	209.9	765.6	853.8	904.3	943.2	966.7
80°	6.0	7.1	13.7	27.4	36.7	96.5	403.4	486.7	560.6	656.0	738.2
82.5°	0.0	0.0	2.7	19.2	20.3	38.9	165.5	194.0	222.0	287.7	369.4
85°	0.0	0.0	0.0	5.5	6.0	6.6	55.9	67.4	75.6	88.2	101.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.6	3.3	8.2	12.6
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: P180427

CATALOG NUMBER: ICS-E02-LED-E1-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6
2.5°	134.8	134.3	134.3	133.2	132.6	131.5	131.0	129.3	128.8	128.8	128.8
5°	159.5	157.3	156.2	153.5	151.8	151.3	148.5	147.4	145.8	146.3	143.6
7.5°	186.9	183.0	181.4	177.6	176.5	172.6	171.5	168.8	167.2	163.9	162.8
10°	217.0	212.1	209.4	203.3	201.7	198.9	195.7	192.4	189.6	186.3	184.7
12.5°	251.6	247.2	245.0	236.8	232.9	229.1	224.7	220.3	215.9	213.2	209.4
15°	292.1	285.0	282.8	275.1	268.5	263.6	257.6	252.1	248.8	243.3	239.5
17.5°	332.1	325.0	323.3	311.8	304.7	301.4	294.8	287.7	281.7	276.2	270.2
20°	372.1	367.2	362.8	351.8	344.2	338.7	329.9	322.8	317.9	310.2	302.5
22.5°	412.1	407.2	403.9	392.4	385.3	377.6	369.9	362.3	355.1	345.8	337.0
25°	453.2	449.9	448.3	437.9	431.3	424.2	416.5	407.7	399.0	388.6	379.2
27.5°	496.0	497.1	493.8	491.6	484.5	479.5	467.5	461.4	454.9	442.3	430.8
30°	550.2	553.5	552.4	554.1	549.7	546.4	537.1	529.4	521.7	509.7	496.5
32.5°	618.7	623.1	625.3	631.3	629.1	628.1	625.3	614.4	608.9	588.0	582.6
35°	724.5	722.3	731.6	736.6	734.4	733.3	730.0	724.0	717.4	702.6	688.9
37.5°	862.1	864.3	867.5	857.7	851.1	850.6	840.7	834.7	825.3	808.9	792.5
40°	1114.2	1100.5	1085.1	1043.5	1025.4	1015.0	985.9	977.7	961.8	939.3	922.4
42.5°	1441.9	1428.2	1382.2	1312.6	1275.3	1223.8	1200.2	1171.2	1148.7	1112.0	1092.2
45°	1767.4	1728.0	1722.5	1641.4	1595.3	1527.4	1485.2	1436.4	1385.4	1337.2	1302.1
47.5°	2042.0	2033.2	2006.4	1957.1	1914.3	1857.3	1803.1	1728.0	1675.4	1606.9	1543.8
50°	2261.8	2261.2	2251.3	2222.9	2187.2	2141.2	2093.5	2029.9	1970.2	1886.4	1818.9
52.5°	2426.2	2434.9	2438.2	2429.5	2415.8	2375.2	2351.1	2297.9	2247.5	2176.3	2103.4
55°	2546.7	2579.1	2595.5	2614.2	2610.3	2596.1	2595.0	2560.4	2537.4	2481.0	2429.5
57.5°	2695.8	2749.0	2799.9	2890.4	2893.7	2925.4	2941.9	2958.3	2962.7	2940.2	2923.2
60°	2885.4	2993.9	3090.4	3279.5	3328.8	3406.6	3457.0	3511.8	3558.4	3562.3	3561.2
62.5°	3019.2	3186.3	3341.9	3622.5	3718.5	3808.3	3875.7	3928.9	3961.2	3994.1	4009.5
63°	3023.0	3206.0	3371.5	3660.9	3761.7	3847.2	3911.4	3960.7	3994.7	4014.4	4024.3
65°	2930.4	3152.3	3349.6	3637.9	3732.7	3818.7	3852.2	3884.5	3900.9	3908.6	3879.6
67.5°	2483.7	2700.7	2930.9	3253.2	3334.3	3437.3	3464.7	3481.2	3488.8	3487.2	3462.5
70°	1857.3	2039.3	2295.2	2663.5	2770.9	2871.7	2934.2	2961.1	2969.8	2967.1	2930.4
72.5°	1296.7	1403.5	1614.5	2024.5	2170.8	2300.1	2377.4	2417.4	2425.6	2409.2	2375.2
75°	1089.0	1094.4	1142.1	1366.3	1503.3	1641.4	1728.5	1753.7	1737.3	1687.4	1600.8
77.5°	972.2	984.3	984.3	1017.7	1044.6	1082.9	1091.1	1029.8	958.5	866.5	791.9
80°	815.5	857.7	887.3	911.9	914.7	907.0	886.7	852.2	797.4	727.2	649.4
82.5°	495.4	578.7	612.7	739.9	802.3	844.5	841.2	795.2	753.6	680.7	614.4
85°	125.0	134.8	146.3	190.2	213.2	260.3	289.9	303.6	308.5	283.3	256.5
87.5°	12.1	8.2	13.7	10.4	14.8	11.0	14.8	13.7	17.0	18.1	19.7
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: P180427

CATALOG NUMBER: ICS-E02-LED-E1-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6
2.5°	127.7	127.1	126.6	126.0	125.5	125.0	123.9	123.9	122.8	122.2	121.7
5°	141.9	140.8	140.3	139.2	137.6	136.5	134.8	132.6	131.0	130.4	129.3
7.5°	160.0	157.3	156.2	154.5	152.4	149.1	146.9	145.2	142.5	140.8	137.6
10°	180.3	177.6	174.3	171.0	167.7	163.9	161.1	158.9	154.5	152.4	148.5
12.5°	206.1	201.1	197.3	192.9	188.5	184.1	180.9	174.3	170.4	165.5	162.2
15°	232.4	228.0	223.6	218.1	211.5	204.4	201.1	195.1	190.2	182.5	178.1
17.5°	264.2	255.9	249.4	242.8	236.8	230.2	223.6	214.3	207.2	200.6	191.8
20°	295.4	285.5	278.4	269.6	260.9	250.5	242.8	236.2	226.3	217.6	208.3
22.5°	328.8	319.0	307.5	298.7	286.6	278.4	268.0	257.0	247.2	235.7	224.1
25°	369.4	359.0	345.8	334.3	320.6	309.1	296.5	283.9	271.8	258.7	243.9
27.5°	419.3	408.3	394.0	380.3	362.3	348.0	335.9	319.0	303.6	287.2	270.2
30°	482.3	470.2	452.7	433.0	414.9	399.0	382.0	359.5	342.5	322.8	300.9
32.5°	564.5	550.2	526.7	508.0	485.6	464.7	441.2	418.7	394.6	368.8	343.6
35°	668.1	654.9	627.5	600.1	575.4	550.8	521.2	495.4	461.4	430.2	397.9
37.5°	775.5	751.9	726.7	697.1	666.4	636.8	600.7	565.0	526.1	492.1	451.6
40°	898.2	869.7	848.9	817.1	773.8	731.6	698.2	653.8	605.0	559.5	511.9
42.5°	1066.5	1034.7	997.4	949.2	918.0	868.6	825.3	772.7	708.6	657.6	600.1
45°	1261.0	1217.7	1181.6	1135.0	1097.2	1035.8	985.4	915.2	851.1	784.2	714.1
47.5°	1483.0	1429.3	1376.7	1330.6	1270.4	1210.1	1146.0	1071.4	989.2	915.8	832.5
50°	1737.8	1661.7	1588.8	1529.6	1446.8	1377.2	1307.6	1223.8	1132.8	1048.4	953.6
52.5°	2021.2	1932.9	1836.5	1745.5	1649.6	1560.3	1476.4	1380.0	1278.6	1175.5	1069.8
55°	2363.1	2296.8	2183.4	2067.8	1939.5	1820.0	1712.1	1592.6	1469.3	1333.9	1222.7
57.5°	2898.6	2866.2	2771.4	2655.8	2488.6	2343.4	2160.4	2014.0	1835.4	1649.1	1505.5
60°	3624.2	3584.2	3531.0	3437.3	3304.7	3107.4	2905.7	2678.3	2406.4	2148.3	1903.3
62.5°	4011.1	3996.9	3953.6	3888.9	3765.0	3609.4	3406.1	3156.2	2849.3	2535.8	2223.4
63°	4022.6	4004.5	3967.3	3901.5	3792.4	3641.7	3442.2	3199.5	2899.1	2579.6	2260.7
65°	3867.0	3859.8	3822.0	3750.2	3675.7	3560.6	3406.1	3197.3	2945.2	2643.2	2325.9
67.5°	3429.6	3408.3	3350.2	3328.2	3276.2	3196.2	3078.3	2934.8	2754.4	2517.1	2243.1
70°	2900.8	2869.0	2796.1	2757.2	2693.6	2643.2	2571.4	2468.9	2357.7	2192.2	1987.7
72.5°	2340.1	2274.4	2207.5	2106.1	2017.3	1927.5	1848.0	1775.6	1653.4	1586.6	1431.5
75°	1519.7	1400.2	1285.7	1132.3	994.1	871.9	753.0	692.7	567.2	516.3	443.4
77.5°	721.2	654.4	564.5	494.9	406.1	331.6	270.7	203.3	159.5	125.0	95.4
80°	582.0	525.6	471.3	408.3	341.4	272.4	208.8	156.2	110.7	76.7	54.3
82.5°	519.0	457.6	390.8	347.5	302.0	247.2	202.8	165.5	122.2	89.3	60.8
85°	201.7	169.9	131.0	106.9	83.3	68.5	61.9	42.7	33.4	26.3	20.3
87.5°	17.5	14.2	11.5	7.7	8.2	4.4	4.9	3.3	2.7	2.7	2.2
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: P180427

CATALOG NUMBER: ICS-E02-LED-E1-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6
2.5°	121.1	120.6	120.0	118.9	118.9	117.8	117.3	116.7	114.0	108.0	103.0
5°	127.1	126.0	125.0	123.3	122.2	120.6	119.5	117.8	111.8	100.3	90.4
7.5°	135.9	133.7	132.1	128.8	127.1	125.0	123.3	120.6	110.7	93.2	79.5
10°	146.3	142.5	139.8	135.9	132.6	129.9	127.1	123.3	109.6	85.5	69.6
12.5°	158.9	154.5	149.1	144.7	140.3	136.5	132.6	127.7	108.0	78.9	61.9
15°	171.5	165.0	161.1	155.1	149.1	143.6	138.1	133.7	108.5	71.8	55.4
17.5°	185.8	179.2	171.0	164.4	157.8	150.7	144.1	135.4	105.8	66.3	50.4
20°	199.5	190.2	182.5	174.3	165.0	156.2	148.0	140.3	103.6	60.8	46.0
22.5°	214.3	203.3	193.5	183.0	171.5	161.7	151.8	141.9	99.7	55.9	42.2
25°	232.4	219.8	205.5	192.9	180.9	168.8	156.2	144.1	95.9	51.5	39.5
27.5°	254.3	237.8	223.6	207.7	190.7	175.4	161.7	148.5	92.1	48.2	36.7
30°	282.2	263.1	242.8	222.5	204.4	186.9	167.7	151.3	88.2	44.9	34.0
32.5°	319.5	295.4	270.7	247.2	223.1	200.6	180.3	158.9	86.0	42.2	31.2
35°	368.8	337.6	307.5	277.9	248.8	221.4	195.1	171.0	86.0	38.9	28.0
37.5°	415.4	379.2	340.9	304.2	269.6	237.8	206.6	177.6	81.7	36.2	25.2
40°	465.8	422.5	377.6	334.3	292.7	253.2	217.6	184.1	77.8	32.9	22.5
42.5°	543.1	488.3	429.7	379.2	329.4	280.6	236.2	196.7	72.9	29.6	19.7
45°	644.5	574.9	505.8	444.5	380.9	321.2	268.5	219.8	71.8	26.9	17.0
47.5°	753.0	670.8	589.7	511.3	436.8	367.2	304.2	245.5	71.8	24.1	14.8
50°	861.0	757.9	671.3	580.4	496.5	414.3	339.2	272.4	72.3	21.9	12.1
52.5°	958.5	848.4	751.4	646.1	553.5	458.2	376.5	298.7	71.2	19.2	9.9
55°	1093.9	964.6	852.2	736.0	627.5	520.1	427.5	338.1	71.8	17.0	8.2
57.5°	1343.2	1191.4	1056.1	903.7	778.8	640.1	527.8	419.3	78.4	14.2	6.0
60°	1701.1	1503.8	1313.7	1127.9	968.9	804.0	658.2	530.5	92.1	11.5	4.4
62.5°	1941.7	1683.6	1456.7	1251.7	1067.0	894.4	735.5	590.2	101.4	9.3	2.7
63°	1966.4	1699.5	1471.5	1259.9	1071.4	898.8	738.8	594.6	101.9	8.8	2.7
65°	2013.0	1726.9	1479.7	1261.6	1067.0	892.8	736.6	594.1	103.0	7.1	2.2
67.5°	1959.8	1684.7	1432.0	1214.5	1028.7	857.1	709.2	572.2	102.5	4.9	1.6
70°	1752.6	1524.6	1302.7	1099.9	931.1	776.0	645.6	521.7	94.3	3.3	1.1
72.5°	1286.8	1131.7	959.6	813.3	701.5	582.6	497.1	391.8	72.9	2.2	0.5
75°	381.4	347.5	292.1	257.6	227.4	188.0	167.2	130.4	37.3	1.1	0.0
77.5°	76.2	69.1	61.9	56.4	53.2	45.5	43.3	35.6	15.3	0.5	0.0
80°	40.0	32.9	28.0	24.7	21.4	17.5	14.8	12.1	2.7	0.0	0.0
82.5°	38.4	25.8	18.6	15.3	13.2	10.4	8.2	6.0	1.6	0.0	0.0
85°	14.2	11.0	8.2	6.6	5.5	4.9	3.8	3.3	0.0	0.0	0.0
87.5°	2.2	1.6	1.6	1.1	1.1	0.5	0.5	0.5	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: P180427

CATALOG NUMBER: ICS-E02-LED-E1-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	115.6	115.6	115.6	115.6	115.6	115.6	115.6
2.5°	98.1	93.7	91.5	88.8	88.8	88.2	89.3
5°	81.7	75.6	71.2	68.0	68.5	66.9	67.4
7.5°	69.1	63.0	59.2	57.0	56.4	55.9	55.9
10°	59.7	54.3	51.0	49.3	48.8	48.8	48.8
12.5°	53.2	47.7	44.9	43.8	43.8	43.3	43.3
15°	47.7	43.3	40.6	39.5	39.5	38.9	39.5
17.5°	43.3	38.9	36.7	35.6	35.6	35.1	35.1
20°	39.5	35.6	33.4	31.8	31.8	31.2	31.8
22.5°	36.2	32.3	29.6	28.5	28.0	27.4	28.0
25°	32.9	29.0	26.3	24.7	24.1	24.1	23.6
27.5°	30.1	26.3	23.0	21.4	20.8	20.8	20.3
30°	27.4	23.0	19.7	18.1	17.5	17.5	17.5
32.5°	24.7	19.7	17.0	15.3	14.8	14.8	14.8
35°	21.9	17.0	14.2	12.6	12.1	12.1	12.1
37.5°	18.6	14.2	11.0	9.9	9.3	8.8	8.8
40°	15.9	11.0	8.2	7.1	6.0	6.0	6.0
42.5°	13.2	8.8	6.0	4.4	3.8	3.3	3.8
45°	11.0	6.6	3.8	2.2	1.6	1.6	1.6
47.5°	8.8	4.4	1.6	0.5	0.5	0.5	0.5
50°	6.6	2.7	0.5	0.0	0.0	0.5	0.5
52.5°	4.9	1.6	0.0	0.0	0.0	0.0	0.0
55°	2.7	0.5	0.0	0.0	0.0	0.0	0.0
57.5°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.5	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.5	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)