

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: P180842

Luminaire Tested: **ICS-F03-LED-E1-SL4-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180842
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-F03-LED-E1-SL4-HSS-7030
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 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: 4142.7 lumens
Efficiency: N/A
Efficacy: 52.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 78.3
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

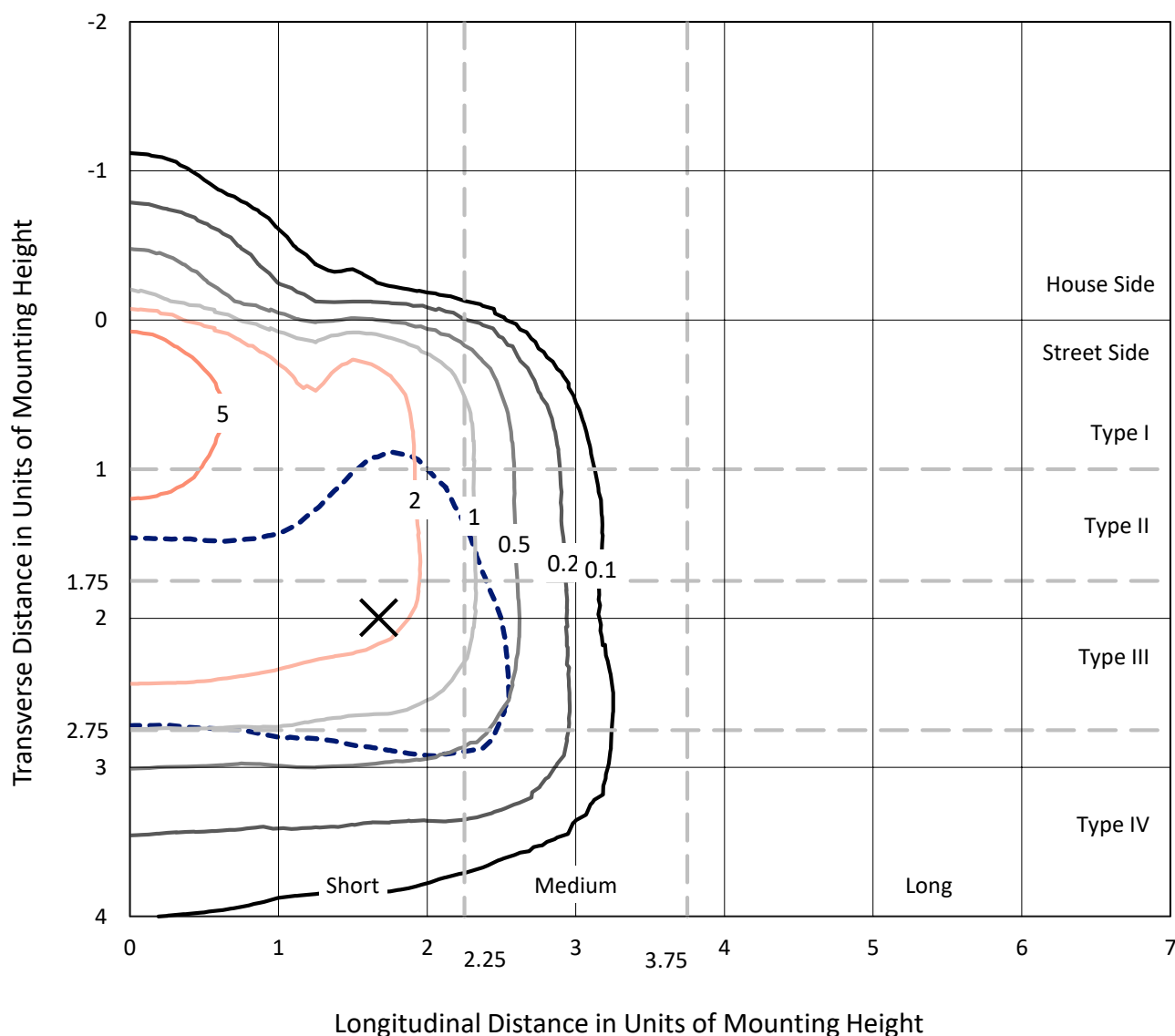


REPORT NUMBER: P180842

CATALOG NUMBER: ICS-F03-LED-E1-SL4-HSS-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

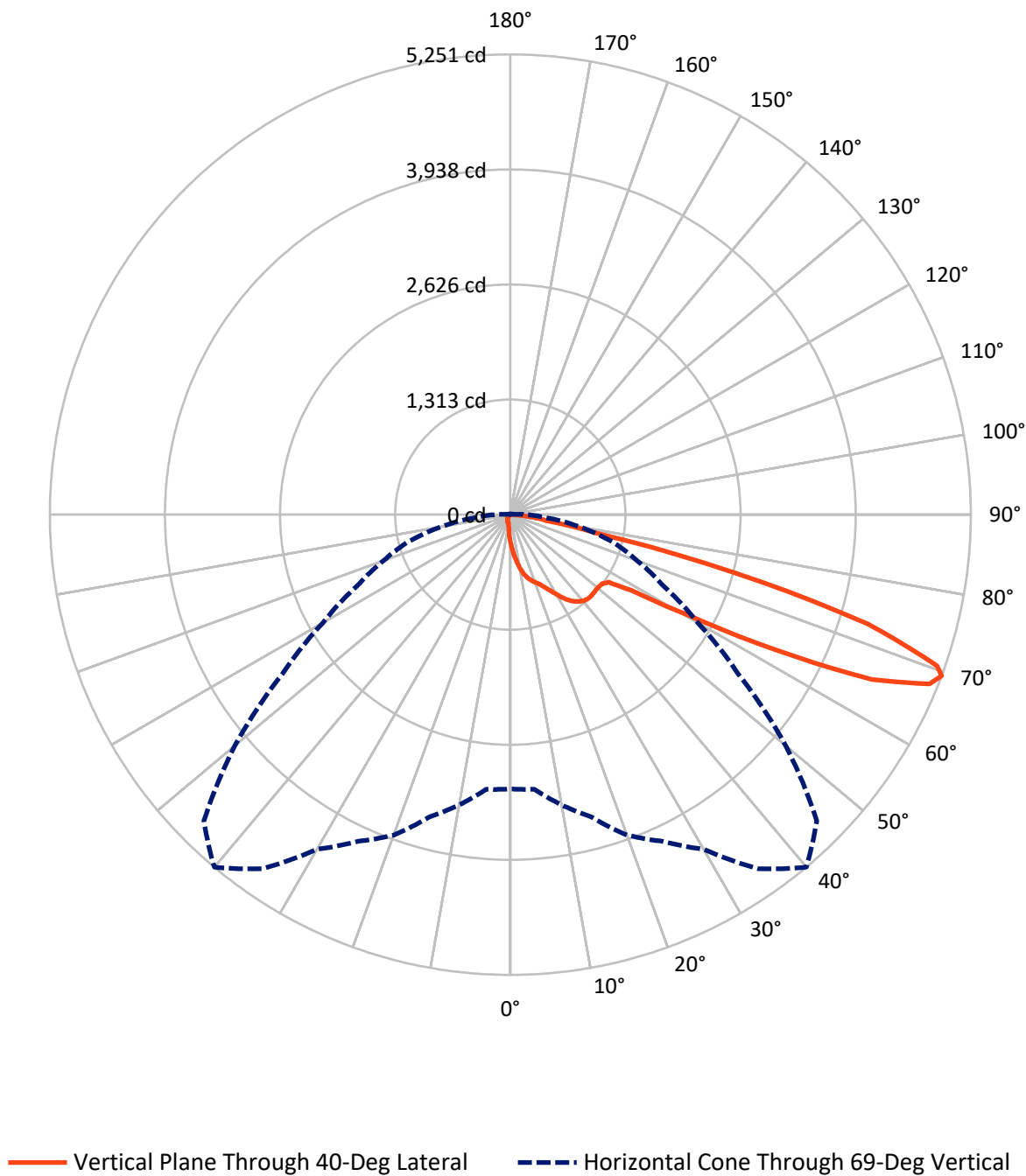


Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P180842

CATALOG NUMBER: ICS-F03-LED-E1-SL4-HSS-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P180842

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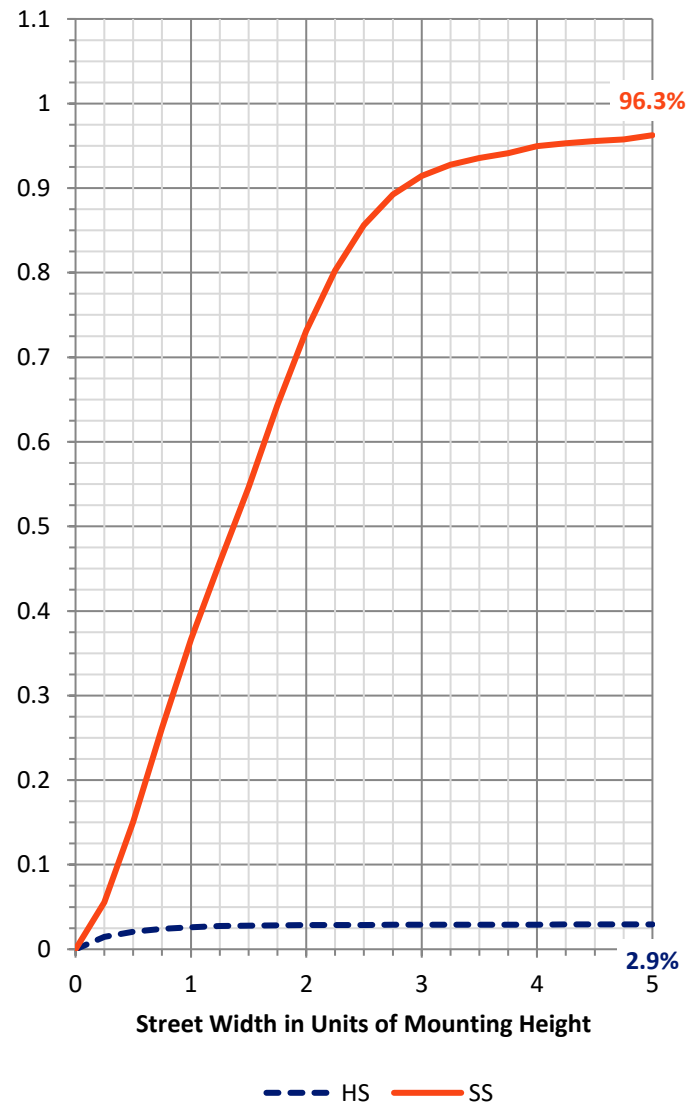
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	123.4	0.0	123.4
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	4019.3	0.0	4019.3
	% Fixture	97.0	0.0	97.0
Total	Lumens	4142.7	0.0	4142.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.2	0.8
10°-20°	110.9	2.7
20°-30°	212.2	5.1
30°-40°	352.9	8.5
40°-50°	477.5	11.5
50°-60°	746.8	18.0
60°-70°	1535.3	37.1
70°-80°	617.8	14.9
80°-90°	57.2	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°	4142.7	100.0
0°-180°	4142.7	100.0

Coefficient of Utilization



REPORT NUMBER: P180842

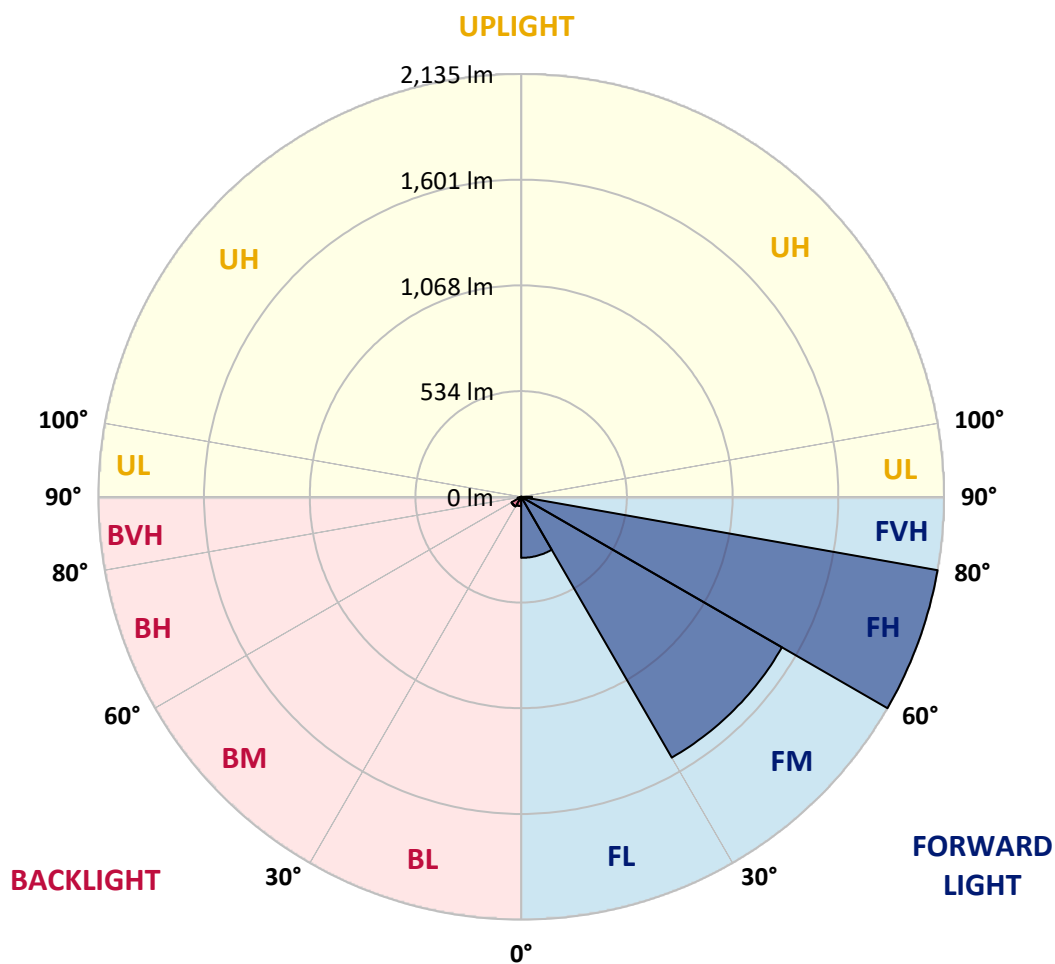
CATALOG NUMBER: ICS-F03-LED-E1-SL4-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	308.3	7.4			
FM	(30°-60°)	1520.8	36.7			
FH	(60°-80°)	2135.1	51.5			G2/5000
FVH	(80°-90°)	55.0	1.3			G1/100
BL	(0°-30°)	46.9	1.1	B0/110		
BM	(30°-60°)	56.3	1.4	B0/220		
BH	(60°-80°)	18.0	0.4	B0/110		G0/110
BVH	(80°-90°)	2.1	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-G2

Type IV Short



REPORT NUMBER: P180842

CATALOG NUMBER: ICS-F03-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	312.8	312.8	312.8	312.8	312.8	312.8	312.8	312.8	312.8	312.8	312.8
2.5°	417.4	412.6	407.2	407.2	400.4	400.4	396.3	385.5	384.1	378.0	371.9
5°	532.7	528.7	521.9	515.8	510.3	500.8	494.0	481.1	466.9	453.3	441.1
7.5°	645.4	643.3	631.1	629.1	620.3	604.7	591.1	572.1	547.7	528.7	506.3
10°	749.9	745.1	742.4	730.9	718.0	701.0	680.0	656.9	628.4	598.6	566.7
12.5°	832.7	830.0	817.8	813.0	799.4	782.5	756.0	726.1	697.6	659.0	621.6
15°	894.4	889.7	881.5	874.1	857.8	842.9	818.4	785.9	751.2	709.2	664.4
17.5°	946.0	937.2	935.2	923.6	906.7	889.0	861.9	832.0	791.3	749.2	700.3
20°	1015.2	1003.0	998.9	982.0	962.3	937.9	906.7	869.3	826.6	780.4	730.2
22.5°	1096.7	1087.8	1079.0	1064.1	1039.0	1004.4	958.9	918.2	863.9	813.0	758.7
25°	1212.0	1204.6	1190.3	1170.0	1138.7	1097.3	1042.4	982.7	918.9	853.7	789.9
27.5°	1324.0	1317.2	1307.0	1291.4	1256.1	1210.7	1142.8	1066.8	986.1	907.3	836.8
30°	1429.2	1423.1	1412.9	1397.3	1366.1	1321.3	1244.6	1163.2	1062.7	971.1	886.3
32.5°	1542.5	1540.5	1529.0	1506.6	1479.4	1419.0	1335.5	1248.0	1146.2	1040.3	941.3
35°	1670.8	1655.2	1644.3	1621.9	1575.8	1511.3	1413.6	1317.9	1210.7	1102.1	991.5
37.5°	1779.4	1764.4	1750.9	1722.4	1666.0	1583.9	1473.3	1368.1	1257.5	1146.9	1034.2
40°	1858.8	1851.3	1835.0	1797.7	1734.6	1636.9	1517.4	1402.7	1291.4	1180.1	1068.8
42.5°	1917.8	1906.3	1888.0	1849.3	1774.6	1663.3	1535.1	1417.0	1307.0	1200.5	1091.2
45°	1939.5	1930.0	1913.1	1871.0	1790.2	1670.8	1534.4	1412.9	1307.7	1206.6	1106.2
47.5°	1926.6	1917.1	1902.2	1862.8	1783.4	1662.0	1522.2	1401.4	1300.9	1208.6	1119.7
50°	1883.9	1878.5	1866.9	1833.7	1762.4	1645.0	1511.3	1395.3	1299.6	1218.8	1138.7
52.5°	1879.8	1876.4	1862.2	1828.9	1756.3	1639.6	1510.0	1398.7	1311.1	1231.7	1152.3
55°	2297.2	2249.0	2141.1	2049.5	1898.8	1719.7	1578.5	1453.6	1360.0	1282.6	1227.0
57.5°	3264.9	3193.0	3051.1	2876.7	2530.6	2190.6	1918.5	1721.7	1624.6	1589.4	1610.4
60°	3718.2	3705.3	3682.9	3600.1	3423.0	3130.5	2804.8	2452.6	2311.4	2299.2	2342.0
62.5°	3933.3	3925.2	3932.0	3921.8	3866.8	3781.3	3687.7	3535.7	3395.9	3305.6	3114.2
65°	4032.4	4037.9	4076.5	4107.1	4113.9	4136.3	4204.8	4394.1	4532.6	4299.8	3768.4
67.5°	3780.7	3812.5	3901.4	4012.7	4143.0	4269.3	4472.9	4871.9	5156.2	4882.8	4128.1
69°	3129.8	3145.5	3362.6	3572.3	3890.6	4113.2	4408.4	4931.6	5251.2	4942.5	4099.6
70°	2464.1	2478.4	2711.1	2996.2	3534.3	3820.7	4206.8	4830.5	5162.3	4863.1	3953.0
72.5°	1111.6	1091.2	1173.4	1326.0	1911.0	2365.7	3040.9	3913.7	4259.1	3896.0	2957.5
75°	776.4	767.5	776.4	777.0	868.0	1119.7	1412.9	2121.4	2623.6	2263.9	1412.9
77.5°	601.3	595.2	589.1	582.3	593.1	664.4	692.9	752.6	977.2	924.3	538.8
80°	475.7	470.3	485.2	480.5	480.5	488.6	483.2	460.8	418.7	388.2	347.5
82.5°	221.2	222.6	222.6	241.6	291.1	340.0	355.6	333.2	295.9	251.8	202.9
85°	21.0	23.8	40.0	61.8	122.8	138.4	139.1	115.4	115.4	90.9	73.3
87.5°	0.0	0.7	0.7	0.7	6.1	17.0	14.3	4.1	2.0	2.0	3.4
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: P180842

CATALOG NUMBER: ICS-F03-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	312.8	312.8	312.8	312.8	312.8	312.8	312.8	312.8	312.8	312.8	312.8
2.5°	361.0	359.0	350.9	342.7	335.2	327.1	319.6	312.2	304.0	297.9	290.5
5°	422.1	407.2	390.2	373.9	357.6	340.7	323.0	307.4	291.1	276.2	262.0
7.5°	483.9	454.7	431.6	402.4	376.0	349.5	325.1	300.0	276.9	255.2	234.8
10°	536.1	500.8	464.9	427.5	389.5	354.2	320.3	290.5	259.9	233.4	208.3
12.5°	578.9	534.1	490.0	443.1	400.4	355.6	313.5	277.6	241.6	211.7	185.9
15°	617.6	566.0	513.0	458.8	404.5	353.6	306.7	262.0	225.3	191.4	162.2
17.5°	648.8	589.7	530.0	468.9	410.6	350.9	297.9	251.1	208.3	173.1	144.5
20°	675.9	614.2	549.7	481.1	414.6	350.2	290.5	237.5	193.4	156.1	128.3
22.5°	701.0	639.3	570.1	496.8	420.8	349.5	283.7	227.3	180.5	143.2	115.4
25°	729.5	664.4	591.8	513.0	431.6	352.2	279.6	219.2	169.0	131.0	105.2
27.5°	761.4	692.9	617.6	533.4	445.9	357.6	278.2	210.4	158.8	119.4	97.0
30°	806.2	726.8	643.3	553.8	458.8	363.7	276.9	204.9	148.6	110.6	88.9
32.5°	845.6	760.1	671.8	574.8	473.0	369.9	276.2	197.5	139.1	101.8	82.8
35°	887.0	790.6	696.3	595.2	485.2	376.6	275.5	192.1	130.3	93.0	76.7
37.5°	922.9	816.4	715.3	612.8	498.8	382.7	276.2	187.3	122.2	85.5	71.3
40°	953.5	842.9	736.3	629.1	513.0	392.2	276.9	182.6	114.0	78.7	66.5
42.5°	980.6	868.0	758.7	647.4	529.3	403.1	281.0	178.5	107.2	72.6	61.8
45°	1001.7	891.0	783.1	673.2	555.8	420.8	288.4	175.8	100.4	67.2	57.7
47.5°	1023.4	925.0	824.5	713.9	594.5	448.6	301.3	175.1	95.0	63.1	54.3
50°	1053.2	958.9	861.2	755.3	629.8	477.1	316.9	175.8	88.2	59.0	50.9
52.5°	1075.0	993.5	908.7	827.3	713.9	563.9	377.3	188.0	84.8	55.6	46.8
55°	1203.2	1189.0	1191.0	1204.6	1117.0	959.6	631.1	271.5	99.8	63.1	46.1
57.5°	1696.6	1746.8	1776.0	1775.3	1630.8	1352.5	847.6	348.8	111.3	73.3	55.0
60°	2345.3	2307.3	2253.7	2121.4	1929.3	1543.9	948.0	375.3	96.4	58.4	50.2
62.5°	2918.8	2696.2	2498.7	2284.3	2032.5	1610.4	968.4	373.2	84.2	44.1	35.3
65°	3276.4	2876.0	2557.1	2288.3	1991.8	1554.7	916.2	342.7	71.3	36.0	29.2
67.5°	3361.9	2779.0	2327.7	1985.0	1664.0	1210.0	672.5	257.9	55.6	29.9	25.8
69°	3175.3	2470.2	1928.7	1539.8	1210.7	802.8	416.0	162.9	42.8	27.1	23.8
70°	2920.8	2148.5	1571.0	1235.8	896.5	563.9	291.1	114.7	34.6	25.1	21.7
72.5°	1879.1	1128.6	772.3	537.5	369.9	224.6	114.0	51.6	26.5	21.0	17.6
75°	728.8	417.4	302.7	230.1	179.8	124.9	69.2	33.3	22.4	17.6	13.6
77.5°	359.0	274.8	224.6	154.0	89.6	55.6	37.3	25.8	18.3	12.9	8.8
80°	283.7	188.7	112.7	69.9	52.9	40.0	28.5	21.0	13.6	8.1	6.1
82.5°	145.2	79.4	58.4	47.5	39.4	31.2	23.1	14.9	8.8	5.4	4.8
85°	45.5	33.3	29.9	29.2	27.1	22.4	16.3	9.5	5.4	3.4	3.4
87.5°	3.4	4.8	6.1	4.8	5.4	4.8	6.1	4.1	2.7	2.7	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: P180842

CATALOG NUMBER: ICS-F03-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	312.8	312.8	312.8	312.8	312.8	312.8	312.8	312.8	312.8	312.8	312.8
2.5°	285.0	276.9	269.4	264.7	255.8	252.5	249.1	247.7	241.6	242.9	237.5
5°	249.1	234.8	223.9	213.1	202.9	195.4	189.3	181.9	175.8	173.1	167.6
7.5°	216.5	198.2	183.9	172.4	160.2	150.7	142.5	137.1	131.7	126.2	123.5
10°	188.0	168.3	152.0	140.5	128.9	120.8	114.7	110.6	107.2	105.2	104.5
12.5°	161.5	142.5	127.6	117.4	108.6	104.5	101.8	99.8	99.1	98.4	98.4
15°	141.2	122.2	110.6	103.2	99.1	97.0	96.4	95.0	93.7	93.0	93.0
17.5°	122.2	107.9	99.8	95.7	93.7	92.3	90.9	89.6	88.2	87.5	87.5
20°	109.3	97.7	93.7	90.9	88.9	87.5	85.5	84.2	83.5	82.8	82.1
22.5°	99.1	91.6	88.9	86.9	84.2	82.1	80.8	79.4	78.0	77.4	76.7
25°	91.6	86.9	84.8	82.1	79.4	77.4	75.3	73.3	71.9	71.3	69.9
27.5°	86.2	82.8	80.1	76.7	74.0	71.9	69.9	67.9	66.5	65.1	64.5
30°	81.4	78.0	74.6	71.9	68.5	66.5	63.8	61.8	61.1	59.7	58.4
32.5°	76.7	73.3	69.9	66.5	63.1	60.4	59.0	56.3	55.0	54.3	52.9
35°	71.3	67.9	63.8	61.1	57.7	55.0	52.9	50.9	49.5	48.2	47.5
37.5°	66.5	62.4	58.4	55.0	52.3	49.5	47.5	45.5	44.1	42.8	42.1
40°	61.1	57.0	52.9	49.5	46.8	44.8	42.8	40.7	39.4	38.7	38.7
42.5°	56.3	51.6	47.5	44.8	42.8	40.0	38.0	36.0	35.3	34.6	35.3
45°	51.6	46.8	43.4	40.7	38.7	36.0	33.9	32.6	31.9	32.6	33.3
47.5°	47.5	42.8	39.4	37.3	35.3	33.3	31.2	29.9	29.9	31.2	32.6
50°	43.4	38.7	36.0	34.6	32.6	30.5	27.8	27.1	27.8	29.2	30.5
52.5°	39.4	33.9	31.9	31.2	29.2	27.1	25.1	24.4	25.1	26.5	25.8
55°	35.3	29.9	29.2	28.5	26.5	23.8	21.7	21.7	21.7	21.0	19.7
57.5°	33.9	26.5	25.8	25.1	23.1	20.4	19.0	17.6	17.0	14.9	14.3
60°	35.3	23.8	23.8	22.4	20.4	17.6	15.6	13.6	12.2	10.9	10.9
62.5°	28.5	21.7	21.0	19.7	17.0	14.3	12.2	10.2	9.5	8.8	8.8
65°	23.1	19.7	18.3	16.3	14.3	11.5	9.5	8.1	7.5	7.5	8.1
67.5°	21.0	17.6	15.6	13.6	11.5	8.8	7.5	6.8	6.8	7.5	7.5
69°	19.7	16.3	14.3	12.2	10.2	8.1	6.8	6.8	6.8	6.8	7.5
70°	18.3	15.6	13.6	11.5	8.8	6.8	6.1	6.1	6.8	6.8	7.5
72.5°	14.3	12.2	11.5	9.5	6.8	6.1	5.4	6.1	6.1	6.8	6.8
75°	10.9	8.8	8.8	7.5	5.4	4.8	4.8	5.4	5.4	6.1	6.1
77.5°	7.5	6.1	6.1	5.4	4.8	4.1	4.1	4.8	5.4	5.4	6.1
80°	5.4	4.8	4.1	4.8	4.1	3.4	4.1	4.8	4.8	5.4	5.4
82.5°	4.1	4.1	4.1	4.1	3.4	3.4	4.1	4.1	4.8	5.4	5.4
85°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.1	4.1	4.8	4.8
87.5°	2.0	2.0	2.0	2.7	2.7	3.4	3.4	3.4	3.4	4.1	4.1
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: P180842

CATALOG NUMBER: ICS-F03-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	312.8	312.8	312.8	312.8
2.5°	236.2	235.5	232.8	233.4
5°	165.6	161.5	164.2	163.6
7.5°	121.5	120.8	120.1	121.5
10°	103.8	103.8	103.2	103.8
12.5°	97.7	97.7	97.7	97.7
15°	93.0	93.0	92.3	92.3
17.5°	87.5	87.5	87.5	86.9
20°	82.1	81.4	81.4	81.4
22.5°	76.0	75.3	75.3	75.3
25°	69.9	69.2	69.2	69.2
27.5°	63.8	63.1	62.4	62.4
30°	57.7	57.0	56.3	56.3
32.5°	51.6	50.9	50.2	50.2
35°	46.1	46.1	45.5	44.8
37.5°	41.4	41.4	41.4	41.4
40°	38.0	38.7	38.7	38.7
42.5°	36.0	36.6	37.3	38.0
45°	34.6	36.0	36.6	36.6
47.5°	33.9	34.6	35.3	35.3
50°	31.2	30.5	30.5	30.5
52.5°	25.1	23.8	23.1	22.4
55°	18.3	17.6	16.3	16.3
57.5°	12.9	12.9	12.2	12.2
60°	10.2	10.2	9.5	10.2
62.5°	8.8	8.8	8.8	8.8
65°	8.1	8.1	8.1	8.1
67.5°	8.1	8.1	8.1	8.1
69°	7.5	7.5	7.5	7.5
70°	7.5	7.5	7.5	7.5
72.5°	6.8	6.8	6.8	6.8
75°	6.1	6.8	6.8	6.8
77.5°	6.1	6.1	6.1	6.1
80°	5.4	5.4	6.1	6.1
82.5°	5.4	5.4	5.4	5.4
85°	4.8	4.8	5.4	5.4
87.5°	4.1	4.1	4.8	4.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)