

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: P181211

Luminaire Tested: **ICS-E02-LED-E1-T2-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181211
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-7030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2632.7 lumens
Efficiency: N/A
Efficacy: 50.5 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

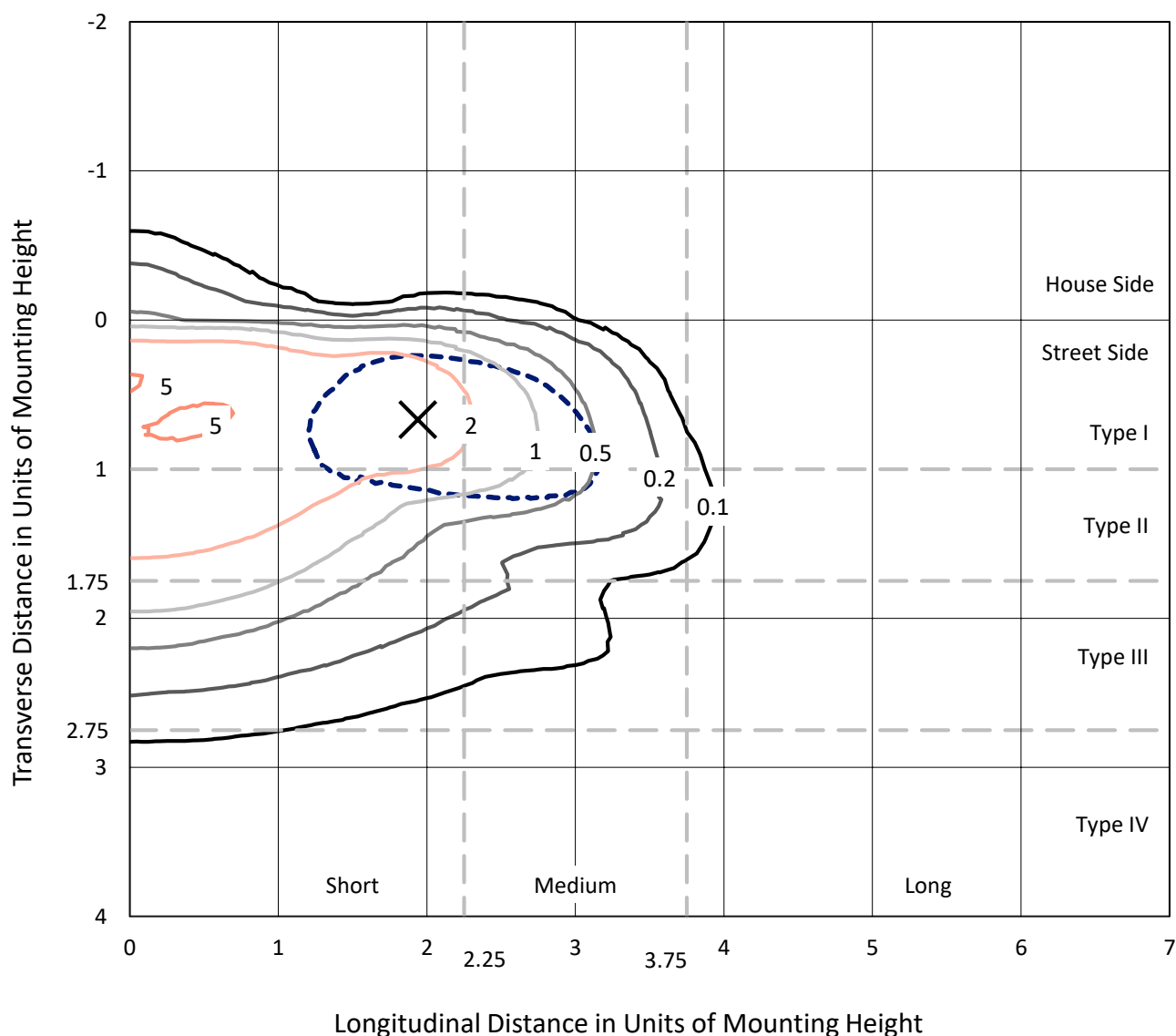


REPORT NUMBER: P181211

CATALOG NUMBER: ICS-E02-LED-E1-T2-HSS-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

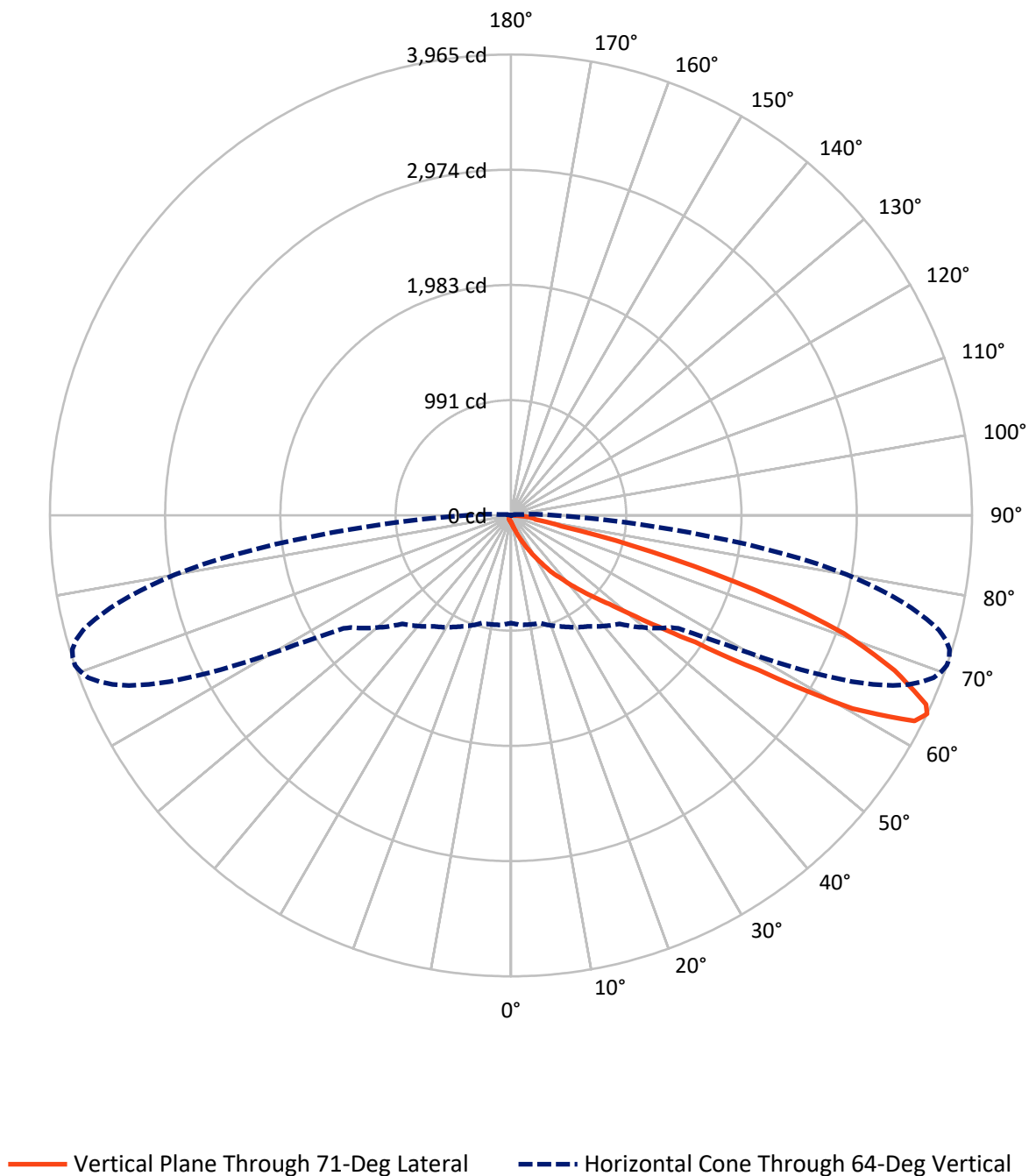


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P181211

CATALOG NUMBER: ICS-E02-LED-E1-T2-HSS-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P181211

CATALOG NUMBER: ICS-E02-LED-E1-T2-HSS-7030

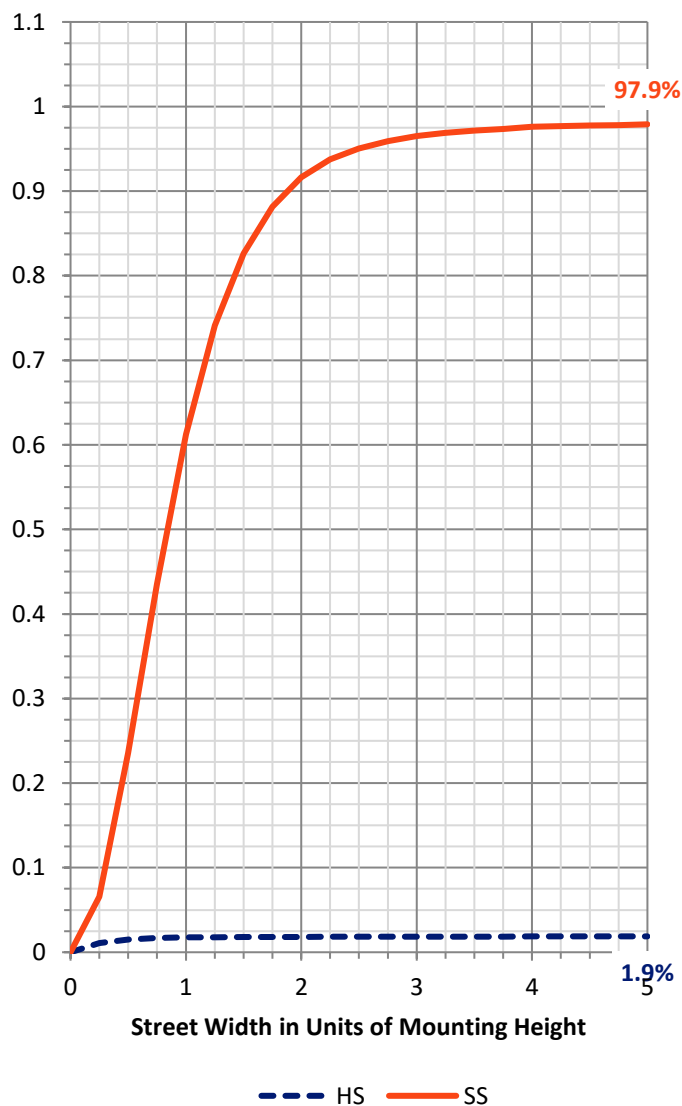
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	50.4	0.0	50.4
	% Fixture	1.9	0.0	1.9
Street Side	Lumens	2582.3	0.0	2582.3
	% Fixture	98.1	0.0	98.1
Total	Lumens	2632.7	0.0	2632.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.1	0.3
10°-20°	47.6	1.8
20°-30°	121.6	4.6
30°-40°	245.9	9.3
40°-50°	449.5	17.1
50°-60°	700.4	26.6
60°-70°	778.5	29.6
70°-80°	253.9	9.6
80°-90°	27.3	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°	2632.7	100.0
0°-180°	2632.7	100.0

Coefficient of Utilization



REPORT NUMBER: P181211

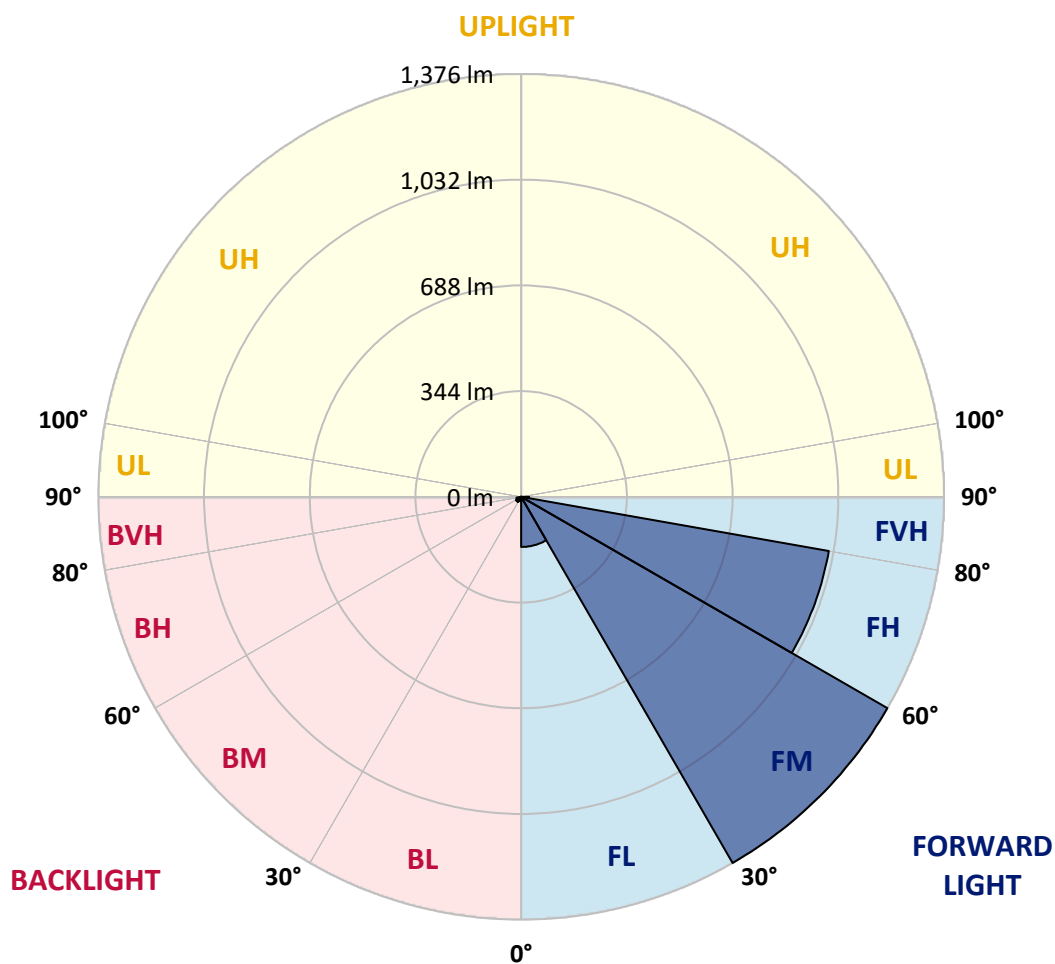
CATALOG NUMBER: ICS-E02-LED-E1-T2-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	163.2	6.2			
FM	(30°-60°)	1376.3	52.3			
FH	(60°-80°)	1016.8	38.6			G1/1800
FVH	(80°-90°)	26.0	1.0			G1/100
BL	(0°-30°)	14.0	0.5	B0/110		
BM	(30°-60°)	19.5	0.7	B0/220		
BH	(60°-80°)	15.6	0.6	B0/110		G0/110
BVH	(80°-90°)	1.3	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: P181211

CATALOG NUMBER: ICS-E02-LED-E1-T2-HSS-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
2.5°	78.9	77.8	77.8	76.2	74.0	71.8	69.6	69.1	68.5	68.0	68.0
5°	123.9	119.5	117.8	111.8	104.1	94.8	86.6	84.4	84.4	82.8	81.7
7.5°	194.6	192.4	180.9	174.8	156.7	134.3	110.7	108.5	108.0	105.8	102.5
10°	285.0	280.6	272.4	254.8	222.0	183.0	149.6	144.1	140.3	135.9	131.5
12.5°	375.4	369.9	357.9	329.4	296.5	246.6	192.9	188.0	181.9	175.9	168.8
15°	465.8	462.0	443.4	414.9	372.1	312.4	244.4	235.7	230.7	218.7	213.2
17.5°	544.2	539.3	524.5	492.1	447.7	382.0	301.4	290.5	282.2	275.1	262.0
20°	612.2	607.2	593.0	566.1	516.3	451.6	362.8	357.3	342.5	331.6	323.9
22.5°	653.8	652.2	642.9	617.1	572.7	515.2	433.0	424.2	414.3	399.5	390.8
25°	679.6	677.9	672.4	654.4	624.2	582.0	510.2	499.3	490.5	477.3	466.4
27.5°	706.4	705.3	700.9	685.1	669.2	642.9	588.6	582.6	563.4	555.7	545.3
30°	750.8	745.9	749.7	742.0	721.8	705.3	667.5	658.7	650.5	637.4	628.1
32.5°	821.5	813.3	821.5	813.3	804.5	784.8	748.6	745.9	737.7	729.4	716.3
35°	908.1	904.8	911.4	918.5	911.4	885.1	841.2	833.0	829.7	816.6	811.6
37.5°	995.2	1001.3	1013.3	1029.2	1024.8	1005.7	943.7	936.1	930.0	918.5	909.7
40°	1089.0	1089.5	1115.3	1138.3	1149.8	1138.3	1056.6	1050.6	1042.4	1025.9	1023.7
42.5°	1190.9	1186.5	1205.7	1231.4	1255.0	1270.9	1205.7	1194.2	1182.7	1164.0	1151.4
45°	1281.3	1281.3	1296.7	1320.8	1356.9	1397.0	1363.0	1350.9	1340.0	1324.6	1310.4
47.5°	1348.2	1348.7	1358.0	1393.1	1449.6	1509.3	1510.4	1512.6	1504.4	1486.3	1486.8
50°	1395.3	1389.3	1401.9	1435.9	1501.1	1594.8	1662.2	1666.0	1672.6	1657.8	1662.2
52.5°	1429.8	1427.1	1435.3	1463.8	1529.0	1643.6	1786.6	1803.1	1812.9	1815.1	1833.2
55°	1411.8	1413.4	1433.1	1474.2	1544.4	1675.9	1892.4	1919.2	1942.3	1962.0	1984.5
57.5°	1352.0	1356.9	1391.5	1455.6	1547.7	1702.2	2004.7	2045.8	2089.1	2141.7	2186.1
60°	1256.7	1268.2	1314.7	1404.6	1515.9	1667.7	2038.2	2101.2	2167.5	2247.5	2336.8
62.5°	1116.9	1119.1	1149.8	1236.9	1359.7	1484.1	1884.7	1965.3	2053.0	2168.6	2293.5
64°	925.6	945.4	959.6	1055.5	1165.1	1320.2	1681.9	1737.8	1860.0	2002.0	2159.3
65°	764.0	787.5	799.0	894.9	1020.5	1168.4	1505.5	1565.2	1694.0	1838.1	2034.3
67.5°	450.5	434.6	468.0	524.5	629.7	805.1	1015.5	1061.0	1156.9	1328.4	1485.2
70°	290.5	290.5	321.2	378.7	476.2	610.5	697.7	678.5	698.8	765.1	875.8
72.5°	186.3	196.2	214.8	263.6	354.0	511.9	713.0	622.6	575.4	553.5	552.4
75°	84.9	90.4	110.7	139.8	189.1	333.8	719.0	679.6	636.3	594.6	562.3
77.5°	18.1	20.8	35.1	72.3	92.1	154.0	510.2	569.4	616.5	630.2	630.2
80°	9.3	9.9	14.8	34.0	39.5	52.1	196.7	258.7	319.0	398.4	481.7
82.5°	3.8	4.4	8.8	15.3	16.4	15.9	52.1	65.8	90.4	131.5	196.2
85°	1.1	1.1	3.8	6.0	8.8	7.1	11.5	13.2	17.0	24.7	47.1
87.5°	0.0	0.0	0.5	1.1	1.6	2.7	3.3	3.3	3.3	3.3	3.3
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: P181211

CATALOG NUMBER: ICS-E02-LED-E1-T2-HSS-7030

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
2.5°	67.4	67.4	66.9	66.3	66.3	65.2	65.2	64.7	64.7	64.1	64.1
5°	81.1	80.0	78.9	77.3	76.7	75.6	74.5	73.4	72.3	71.8	70.7
7.5°	100.8	99.7	96.5	94.3	91.5	89.9	87.7	86.0	84.4	83.3	81.1
10°	127.1	123.3	121.7	114.0	112.3	108.5	105.2	103.0	98.6	95.9	93.2
12.5°	164.4	157.3	154.5	141.4	137.6	132.1	128.2	122.8	117.8	114.5	109.6
15°	206.6	201.1	190.7	177.6	170.4	164.4	155.1	150.7	144.1	137.0	129.9
17.5°	257.0	247.2	235.7	218.7	209.9	200.6	191.8	182.5	171.5	165.0	157.3
20°	315.7	305.3	291.0	269.6	259.2	249.9	234.6	228.0	214.8	201.7	191.8
22.5°	379.8	369.4	355.7	331.6	317.9	302.5	289.9	278.4	263.1	249.9	238.4
25°	452.1	440.1	429.7	401.7	384.7	368.8	355.1	334.9	321.7	306.4	290.5
27.5°	534.3	520.1	506.4	475.7	459.8	442.3	425.8	404.5	391.8	366.6	351.8
30°	618.7	601.2	587.0	555.7	541.5	523.4	500.9	481.7	460.4	443.4	419.3
32.5°	707.5	693.3	681.8	648.9	630.8	608.3	588.0	567.8	549.1	521.7	499.8
35°	802.3	789.7	777.1	748.6	732.7	715.7	692.7	668.1	642.3	613.8	594.1
37.5°	902.1	892.2	882.3	847.8	829.2	811.1	784.8	760.1	737.1	707.0	673.5
40°	1006.7	997.4	981.5	953.0	933.3	916.9	892.8	869.7	838.5	805.1	775.5
42.5°	1138.3	1118.0	1104.3	1073.1	1052.2	1034.2	1012.8	978.3	951.9	911.9	883.4
45°	1292.3	1273.1	1250.6	1218.8	1193.1	1163.5	1133.3	1109.8	1076.9	1040.7	1004.0
47.5°	1465.5	1450.1	1423.8	1392.6	1366.8	1337.2	1301.6	1271.5	1231.4	1189.2	1139.4
50°	1656.2	1640.3	1622.7	1587.7	1561.9	1534.0	1506.0	1470.4	1434.2	1383.8	1332.3
52.5°	1833.2	1836.5	1826.1	1809.6	1797.0	1768.0	1742.2	1708.2	1676.5	1630.4	1590.4
55°	2008.0	2036.5	2047.5	2063.4	2068.9	2045.3	2044.7	1994.9	1975.7	1948.8	1925.8
57.5°	2238.7	2301.8	2351.6	2448.1	2488.6	2529.8	2537.4	2502.4	2538.5	2491.9	2507.8
60°	2434.9	2550.6	2674.4	2923.8	3048.7	3143.0	3218.6	3274.5	3310.7	3372.1	3375.4
62.5°	2452.5	2634.4	2823.0	3186.9	3357.8	3500.9	3637.3	3732.7	3808.3	3877.9	3894.9
64°	2368.6	2593.9	2823.0	3263.0	3437.9	3596.8	3721.2	3816.0	3893.3	3936.6	3965.1
65°	2216.3	2468.4	2732.0	3212.6	3392.9	3561.7	3680.6	3776.0	3848.9	3892.2	3921.8
67.5°	1641.9	1885.8	2150.5	2710.1	2993.9	3148.5	3300.8	3434.6	3493.2	3548.0	3558.4
70°	1000.7	1177.7	1360.2	1879.2	2142.8	2420.7	2592.2	2787.9	2924.9	3009.3	3037.2
72.5°	603.9	665.3	774.4	1053.3	1306.0	1501.1	1738.4	1925.3	2078.7	2163.7	2206.4
75°	537.6	530.0	544.2	660.4	750.3	867.5	953.6	1070.9	1165.7	1195.3	1250.6
77.5°	621.5	599.6	577.1	555.2	550.8	539.8	522.3	526.7	485.0	445.0	446.1
80°	553.5	606.1	637.4	614.4	562.3	509.7	445.0	364.4	285.0	235.7	214.8
82.5°	277.9	395.1	508.0	619.8	612.2	565.6	494.3	406.1	314.6	241.7	192.9
85°	85.5	151.8	213.7	297.0	344.7	338.1	297.0	288.8	206.1	160.6	123.9
87.5°	3.8	3.8	3.8	3.3	3.8	3.8	3.8	4.4	4.4	4.9	4.9
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: P181211

CATALOG NUMBER: ICS-E02-LED-E1-T2-HSS-7030

CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
2.5°	64.1	63.6	63.0	62.5	62.5	62.5	61.9	61.9	61.4	61.4	60.8
5°	70.7	69.6	69.1	68.0	68.0	66.9	66.3	65.8	64.7	64.1	63.6
7.5°	79.5	78.4	76.7	75.1	74.5	72.9	71.2	70.1	69.1	68.0	66.9
10°	91.0	88.8	85.5	83.3	81.7	79.5	77.3	75.6	73.4	71.2	70.1
12.5°	105.8	101.4	98.1	94.3	91.0	87.7	83.9	81.7	79.5	76.2	74.0
15°	122.8	118.4	114.5	108.0	102.5	98.1	94.8	89.9	86.0	81.7	78.4
17.5°	151.8	140.3	132.6	126.0	120.6	112.3	105.8	100.3	95.4	89.9	86.0
20°	180.3	170.4	160.0	152.4	140.3	133.2	124.4	116.7	108.0	101.4	94.8
22.5°	222.0	209.4	196.2	184.7	168.2	158.4	146.9	137.0	126.0	115.1	108.0
25°	274.6	255.9	238.4	222.0	206.6	191.8	177.0	161.1	149.6	136.5	124.4
27.5°	329.9	309.1	292.1	270.7	251.0	232.9	214.3	197.3	177.6	160.6	146.3
30°	399.5	371.0	351.3	325.5	305.8	280.6	257.6	235.1	211.0	191.3	171.0
32.5°	470.2	451.0	417.6	395.7	366.1	335.9	311.8	286.1	256.5	230.7	206.1
35°	563.4	530.5	502.6	471.9	439.5	408.3	377.1	340.3	310.2	278.4	248.3
37.5°	645.6	612.2	579.8	539.8	503.1	470.2	432.4	394.0	358.4	320.6	284.4
40°	741.0	699.3	660.9	623.7	578.2	539.3	499.8	452.1	411.0	369.4	326.6
42.5°	845.1	802.9	757.4	714.6	664.8	617.1	568.3	520.6	474.6	424.2	374.3
45°	959.1	914.7	863.7	814.9	760.7	708.1	650.0	595.2	540.9	484.5	426.9
47.5°	1100.5	1043.5	996.3	935.5	868.1	812.7	741.5	679.0	617.1	551.3	486.7
50°	1283.5	1218.8	1150.9	1083.5	1008.9	938.8	859.9	785.9	703.1	629.7	555.7
52.5°	1526.3	1478.1	1399.1	1321.9	1230.9	1141.6	1033.1	937.1	830.8	737.1	646.7
55°	1871.0	1839.2	1770.7	1686.3	1606.9	1476.4	1351.5	1202.4	1064.3	929.5	802.3
57.5°	2495.2	2460.7	2384.5	2364.2	2242.0	2146.1	1999.8	1806.9	1572.9	1366.8	1161.3
60°	3394.0	3326.6	3252.1	3238.4	3094.8	2993.9	2848.7	2643.2	2422.9	2094.1	1814.0
62.5°	3896.0	3875.7	3815.5	3741.5	3617.1	3467.4	3304.1	3105.2	2881.6	2593.3	2260.1
64°	3963.4	3944.8	3892.7	3809.4	3684.5	3536.0	3355.1	3156.7	2932.6	2669.5	2365.3
65°	3921.2	3894.9	3850.5	3773.8	3657.6	3515.1	3333.2	3132.0	2904.6	2651.4	2368.6
67.5°	3580.9	3568.8	3528.3	3457.0	3384.1	3255.9	3095.9	2916.1	2730.3	2479.3	2247.5
70°	3040.5	3031.8	2980.2	2951.7	2831.2	2750.1	2620.7	2479.3	2314.9	2140.1	1942.8
72.5°	2254.1	2224.5	2182.8	2139.5	2057.9	1946.6	1845.8	1695.1	1610.1	1462.7	1351.5
75°	1195.3	1176.6	1112.0	1021.5	920.7	868.6	764.0	670.3	595.7	562.3	481.7
77.5°	413.2	376.5	340.3	299.8	237.8	187.4	149.6	119.5	94.3	83.3	69.6
80°	206.1	195.7	184.1	161.1	135.4	109.1	85.5	67.4	55.4	47.1	42.2
82.5°	167.2	148.0	132.1	115.6	92.6	76.2	60.3	49.3	40.6	35.6	31.2
85°	98.6	75.6	57.5	52.1	40.6	35.1	30.1	25.8	21.9	20.8	19.2
87.5°	3.8	4.9	4.9	3.8	4.9	4.4	4.4	3.8	3.8	3.8	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: P181211

CATALOG NUMBER: ICS-E02-LED-E1-T2-HSS-7030

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
2.5°	60.8	60.3	60.3	59.7	59.2	59.2	59.2	58.6	57.5	55.4	53.7
5°	63.0	62.5	61.9	60.8	60.3	59.7	59.2	59.2	56.4	52.6	49.9
7.5°	65.8	64.7	63.6	62.5	61.9	60.8	59.7	59.2	55.4	50.4	47.7
10°	68.5	66.9	65.2	64.7	63.0	61.9	60.3	59.2	54.8	48.8	44.9
12.5°	71.8	69.6	67.4	65.8	63.6	62.5	60.8	59.2	53.7	47.1	42.7
15°	75.6	72.3	69.6	68.0	65.8	63.0	60.8	59.2	52.6	45.5	40.6
17.5°	80.6	76.7	73.4	70.1	66.9	64.1	61.9	59.7	51.0	43.3	37.8
20°	88.2	83.3	77.8	74.0	69.6	66.3	62.5	59.7	49.9	41.1	35.6
22.5°	98.6	91.0	84.9	78.4	72.9	68.5	64.1	60.8	48.2	38.9	32.9
25°	113.4	103.6	93.7	85.5	78.4	72.3	66.9	62.5	47.1	37.3	31.2
27.5°	129.9	118.4	105.2	95.4	85.5	76.7	70.7	65.2	47.1	36.2	29.6
30°	152.9	136.5	120.6	108.0	94.8	84.9	76.2	69.1	47.1	35.6	28.0
32.5°	180.9	162.2	141.9	123.9	108.5	94.3	83.3	74.0	48.2	34.5	26.9
35°	219.8	192.4	168.2	145.8	125.5	109.1	94.8	82.2	49.9	34.0	25.2
37.5°	250.5	217.6	186.9	161.1	137.6	117.3	99.2	85.5	48.2	31.8	23.6
40°	287.2	249.9	212.6	180.3	153.5	127.1	106.3	89.9	47.1	29.0	21.4
42.5°	331.6	285.0	241.7	205.0	171.5	140.3	115.6	95.4	47.1	27.4	19.7
45°	373.2	322.2	274.0	228.0	189.1	154.5	124.4	101.4	46.6	25.8	17.5
47.5°	424.7	364.4	308.0	254.8	209.9	167.7	133.7	106.9	46.0	24.1	15.9
50°	485.6	412.1	348.6	285.0	230.2	183.6	144.7	112.9	44.9	22.5	14.2
52.5°	553.0	474.1	392.9	319.5	255.4	200.6	155.1	118.4	43.3	20.8	12.6
55°	672.4	563.9	468.0	377.1	293.7	225.8	170.4	126.6	41.7	19.2	11.0
57.5°	959.1	779.3	643.4	506.4	386.9	289.9	212.1	150.2	39.5	17.0	8.8
60°	1506.0	1209.5	978.8	767.8	585.3	445.0	312.4	222.0	42.2	14.2	7.7
62.5°	1931.8	1591.0	1297.2	1032.5	801.8	609.4	454.9	331.6	60.8	12.6	6.0
64°	2043.1	1697.8	1384.3	1107.0	867.0	668.6	507.5	374.9	78.4	12.6	5.5
65°	2059.5	1730.7	1415.6	1134.4	889.5	684.5	522.8	389.1	85.5	13.2	4.9
67.5°	1991.6	1711.5	1424.9	1146.0	906.5	706.4	543.7	411.6	96.5	12.6	3.8
70°	1739.5	1533.4	1297.8	1072.0	854.9	671.3	522.8	399.0	100.8	12.1	3.3
72.5°	1183.8	1041.8	902.6	742.6	595.2	490.5	381.4	281.1	70.7	9.9	2.7
75°	394.6	384.7	344.2	260.9	219.2	178.1	142.5	109.6	26.9	6.0	2.7
77.5°	65.8	56.4	49.3	47.1	39.5	38.4	33.4	26.9	11.5	3.8	2.7
80°	38.4	35.1	30.7	27.4	24.1	21.4	18.1	15.3	7.1	2.7	3.3
82.5°	28.5	25.2	22.5	19.7	17.0	14.8	12.6	10.4	3.8	2.7	3.3
85°	16.4	14.2	12.6	11.0	8.8	7.7	6.6	5.5	2.7	2.7	2.7
87.5°	3.3	3.3	2.7	2.7	2.7	2.7	2.7	2.2	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: P181211

CATALOG NUMBER: ICS-E02-LED-E1-T2-HSS-7030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	58.6	58.6	58.6	58.6	58.6	58.6	58.6
2.5°	52.6	51.0	50.4	50.4	50.4	50.4	50.4
5°	48.2	46.6	45.5	44.9	44.9	44.9	44.9
7.5°	44.9	42.7	41.7	40.6	40.6	40.0	40.0
10°	41.7	39.5	37.8	36.7	36.2	36.2	36.2
12.5°	38.9	36.7	34.5	33.4	33.4	32.9	32.9
15°	36.7	33.4	31.8	30.7	30.7	30.1	30.1
17.5°	34.0	31.2	29.6	28.5	28.0	28.0	28.0
20°	31.2	28.5	26.9	26.3	25.8	25.8	25.2
22.5°	29.0	26.3	24.7	24.1	23.6	23.6	23.0
25°	26.9	24.1	22.5	21.9	21.4	20.8	20.8
27.5°	25.2	22.5	20.8	19.7	19.2	18.6	18.6
30°	23.6	20.3	18.6	17.5	17.0	16.4	16.4
32.5°	21.9	18.6	16.4	15.3	14.8	14.2	14.2
35°	19.7	16.4	14.2	13.7	13.2	12.6	12.1
37.5°	18.1	14.2	12.6	11.5	11.0	10.4	10.4
40°	15.9	12.6	11.0	9.9	8.8	8.2	8.2
42.5°	14.2	11.0	9.3	7.7	7.1	6.6	6.6
45°	12.6	9.9	7.7	6.0	5.5	4.9	4.9
47.5°	11.0	8.2	6.0	4.9	4.4	3.8	3.8
50°	9.3	6.6	4.4	3.3	3.8	3.3	3.3
52.5°	8.2	4.9	3.3	3.3	3.3	3.3	3.3
55°	6.6	3.8	2.7	2.7	3.3	3.3	3.3
57.5°	5.5	2.7	2.2	2.7	2.7	2.7	2.7
60°	3.8	2.2	2.2	2.7	2.7	2.7	2.7
62.5°	3.3	2.2	2.2	2.2	2.7	2.7	2.7
64°	2.7	2.2	2.2	2.2	2.7	2.7	2.7
65°	2.7	2.2	2.2	2.2	2.7	2.7	2.7
67.5°	2.7	2.2	2.2	2.2	2.7	2.7	2.7
70°	2.2	2.2	2.2	2.2	2.7	2.7	2.7
72.5°	2.2	2.2	2.2	2.2	2.7	2.7	2.7
75°	2.2	2.2	2.2	2.2	2.7	2.7	2.7
77.5°	2.2	2.2	2.2	2.7	2.7	2.7	2.7
80°	2.2	2.2	2.2	2.7	2.7	2.7	2.7
82.5°	2.2	2.2	2.2	2.7	2.7	2.7	2.7
85°	2.2	2.2	2.2	2.7	2.7	2.7	2.7
87.5°	2.2	2.2	2.2	2.7	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)