

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: McGRAW-EDISON

Report Number: P226900

Luminaire Tested: **ISW-AF-1200-LED-E1-SL3-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226900
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35946)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISW-AF-1200-LED-E1-SL3-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL, WITH UPLIGHT
GLOW
Light Source: (16) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8451.6 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U5 - G2

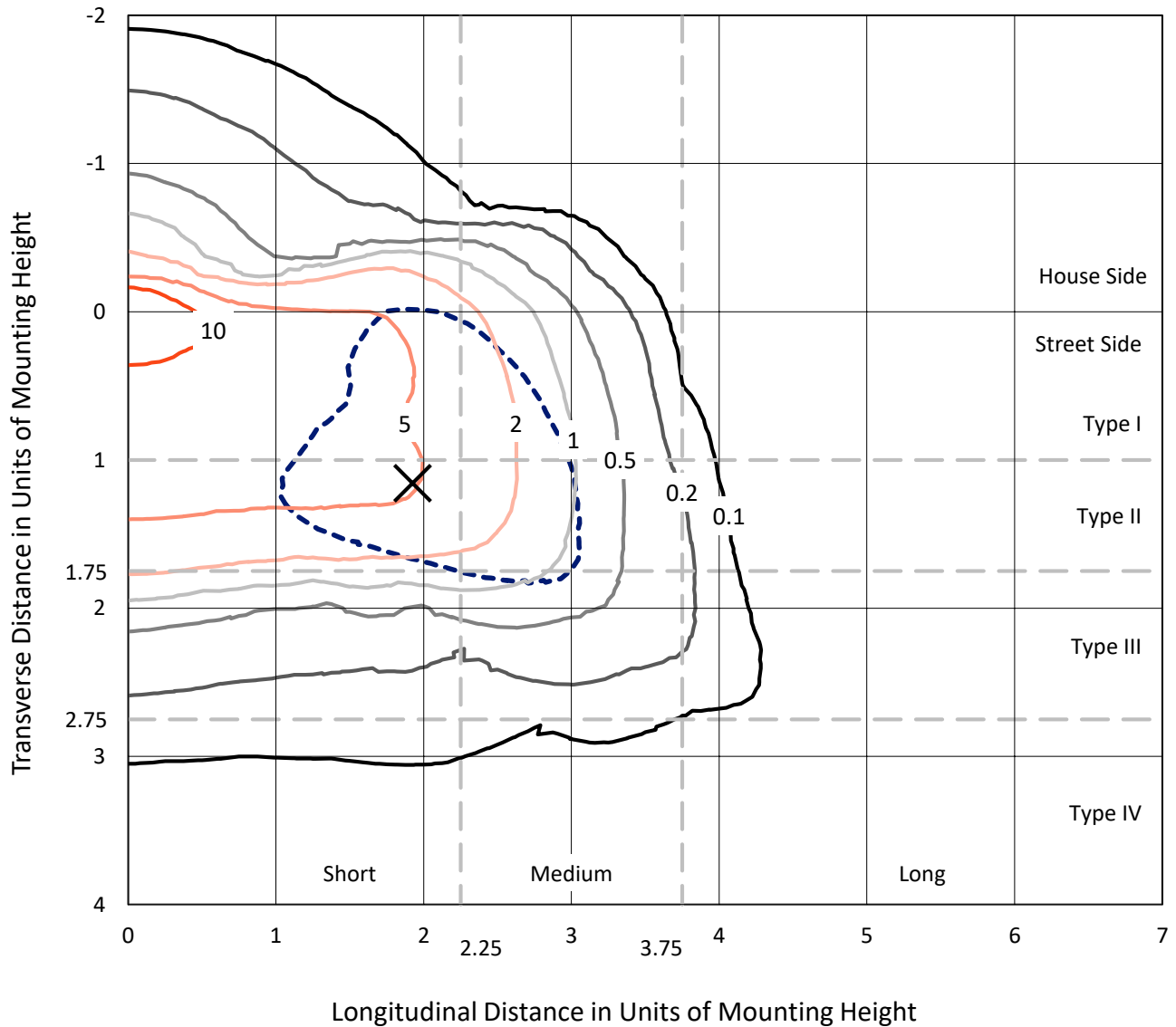
Input Watts (W): 82.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

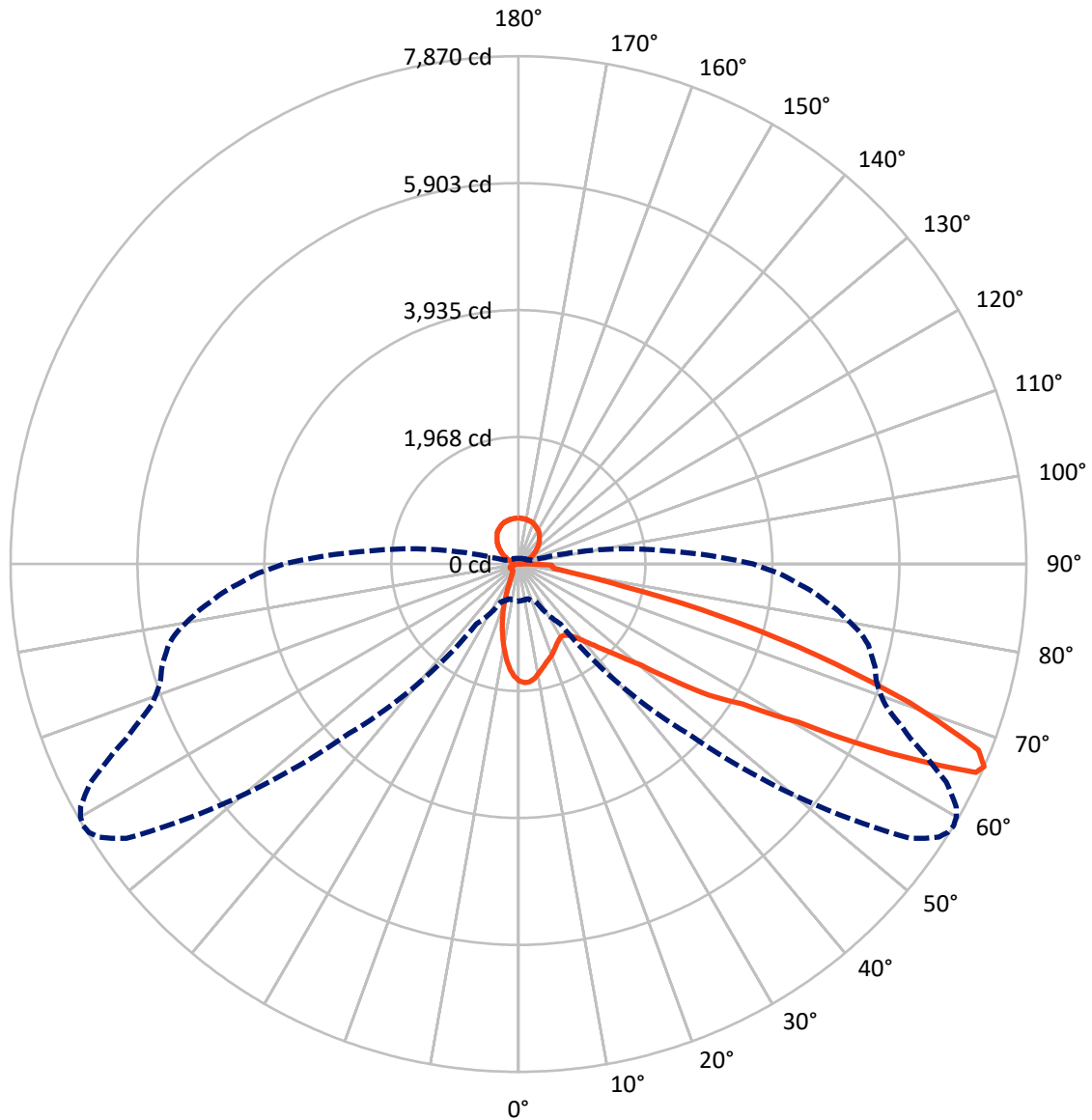
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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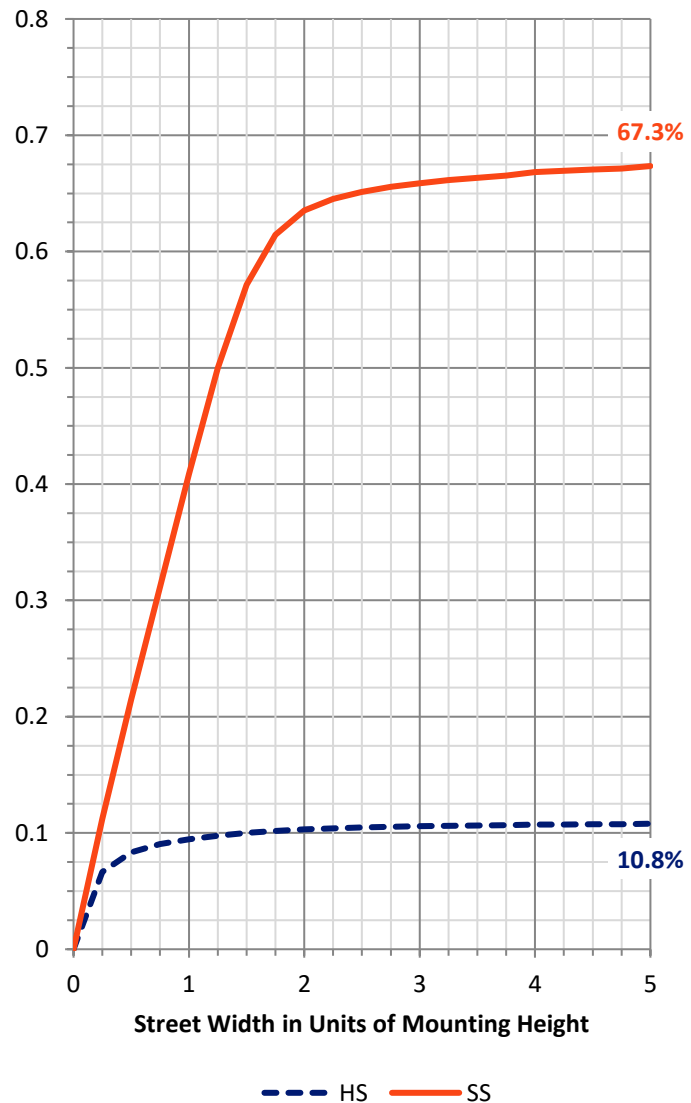
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	926.7	887.9	1814.6
	% Fixture	11.0	10.5	21.5
Street Side	Lumens	5747.0	889.9	6636.9
	% Fixture	68.0	10.5	78.5
Total	Lumens	6673.8	1777.8	8451.6
	% Fixture	79.0	21.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.6	1.8
10°-20°	326.6	3.9
20°-30°	409.6	4.8
30°-40°	560.5	6.6
40°-50°	901.6	10.7
50°-60°	1566.7	18.5
60°-70°	1903.5	22.5
70°-80°	710.1	8.4
80°-90°	140.7	1.7
90°-100°	12.3	0.1
100°-110°	58.7	0.7
110°-120°	169.9	2.0
120°-130°	279.4	3.3
130°-140°	344.6	4.1
140°-150°	352.5	4.2
150°-160°	297.0	3.5
160°-170°	195.5	2.3
170°-180°	67.8	0.8
0°-90°	6673.8	79.0
0°-180°	8451.6	100.0



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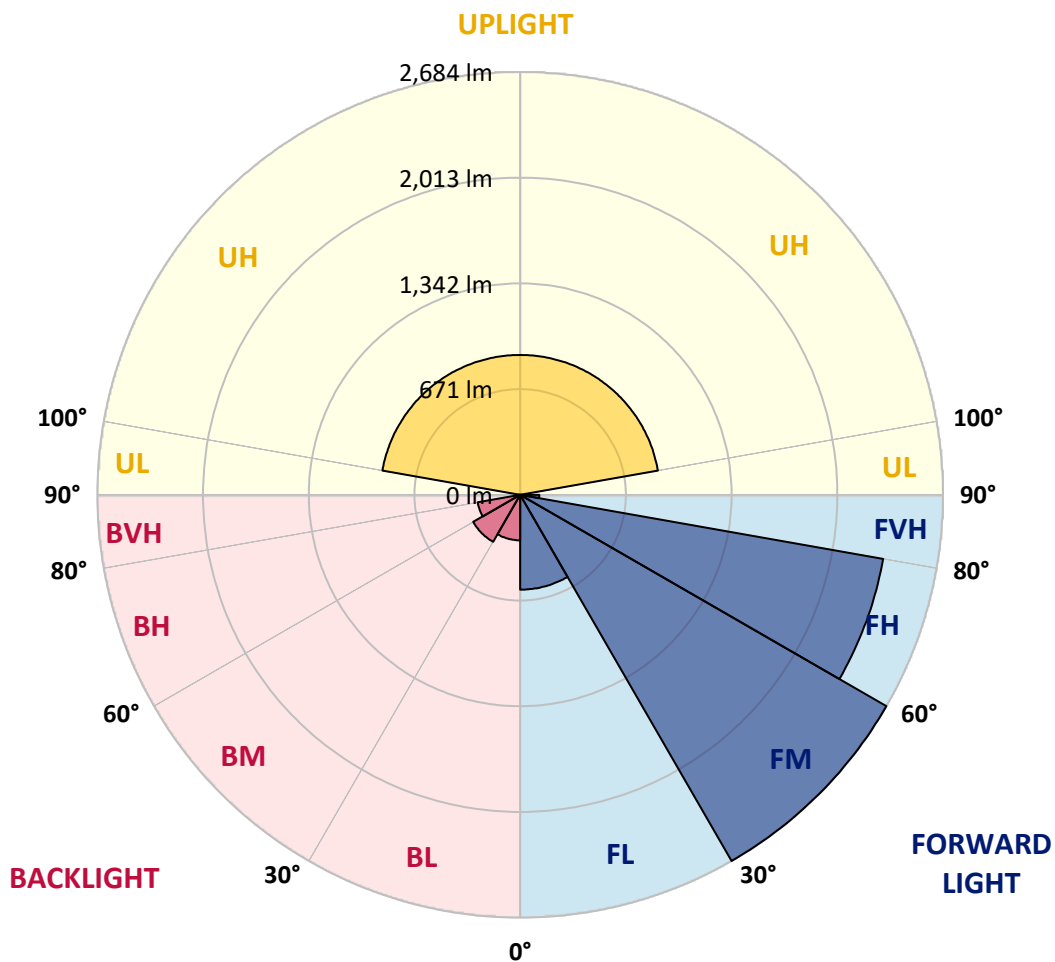
CATALOG NUMBER: ISW-AF-1200-LED-E1-SL3-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	602.0	7.1			
FM (30°-60°)	2684.3	31.8			
FH (60°-80°)	2339.7	27.7			G2/5000
FVH (80°-90°)	121.0	1.4			G2/225
BL (0°-30°)	288.8	3.4	B1/500		
BM (30°-60°)	344.4	4.1	B1/1000		
BH (60°-80°)	273.9	3.2	B1/500		G1/500
BVH (80°-90°)	19.7	0.2			G1/100
UL (90°-100°)	12.3	0.1		U2/50	
UH (100°-180°)	887.9	10.5		U4/1000	

BUG Rating: B1-U5-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6
2.5°	1860.6	1854.5	1865.8	1861.7	1864.7	1849.4	1846.3	1843.3	1845.3	1842.2	1842.2
5°	1816.7	1813.6	1826.9	1834.0	1840.2	1838.1	1837.1	1837.1	1838.1	1831.0	1832.0
7.5°	1687.7	1685.6	1704.0	1717.3	1747.0	1764.4	1787.0	1788.0	1790.1	1787.0	1793.1
10°	1550.5	1556.6	1573.1	1594.6	1638.6	1665.2	1708.1	1716.3	1719.4	1720.4	1721.4
12.5°	1419.5	1413.4	1433.9	1474.8	1534.1	1577.2	1631.4	1635.5	1640.6	1647.8	1654.9
15°	1302.8	1310.0	1326.4	1369.4	1431.8	1492.2	1562.8	1566.9	1577.2	1583.3	1593.6
17.5°	1223.0	1223.0	1241.5	1281.3	1339.7	1416.5	1505.5	1512.6	1520.8	1529.0	1540.3
20°	1183.1	1183.1	1190.3	1213.8	1265.0	1338.6	1446.1	1454.3	1468.7	1477.9	1493.2
22.5°	1180.1	1179.1	1178.0	1183.1	1213.8	1271.1	1382.7	1394.0	1406.3	1420.6	1433.9
25°	1212.8	1215.9	1203.6	1195.4	1198.5	1225.1	1322.3	1328.4	1351.9	1361.1	1377.6
27.5°	1259.9	1265.0	1254.8	1242.5	1224.1	1206.7	1271.1	1281.3	1296.7	1312.0	1332.5
30°	1327.4	1326.4	1325.3	1317.2	1281.3	1227.1	1255.8	1262.9	1276.2	1288.5	1305.9
32.5°	1400.1	1408.3	1414.4	1410.3	1373.5	1281.3	1277.3	1283.4	1295.7	1302.8	1314.1
35°	1494.2	1498.3	1521.8	1521.8	1485.0	1378.6	1337.6	1342.7	1348.9	1351.9	1360.1
37.5°	1597.6	1612.0	1646.7	1667.2	1609.9	1499.3	1432.8	1432.8	1435.9	1438.0	1443.1
40°	1717.3	1737.8	1786.0	1824.8	1788.0	1649.8	1557.6	1566.9	1563.8	1559.7	1570.9
42.5°	1856.6	1879.1	1937.4	1974.2	1952.7	1831.0	1725.5	1719.4	1728.6	1716.3	1720.4
45°	2018.3	2035.7	2095.0	2133.9	2151.3	2053.1	1945.6	1933.3	1933.3	1906.7	1917.9
47.5°	2163.5	2168.7	2226.0	2294.6	2350.8	2352.9	2201.5	2193.2	2173.8	2156.4	2152.3
50°	2298.7	2314.0	2350.8	2425.6	2543.3	2645.7	2553.5	2527.9	2506.4	2442.0	2461.4
52.5°	2533.0	2562.7	2586.2	2631.3	2770.5	2978.2	3091.9	3052.0	3046.9	2988.4	2975.2
55°	2577.0	2580.1	2657.9	2917.9	3245.3	3394.8	3612.8	3611.7	3628.1	3609.7	3592.3
57.5°	2370.3	2345.7	2475.7	2818.5	3476.7	4244.2	4177.7	4184.9	4163.4	4107.1	4089.8
60°	1846.3	1866.8	2007.0	2444.0	3309.9	4792.8	5231.9	5101.9	5195.1	5048.7	4969.9
62.5°	1038.8	1015.3	1110.4	1569.9	2715.2	4821.5	6667.8	6682.1	6727.1	6645.3	6452.9
65°	670.3	660.1	650.9	794.2	1627.3	4217.6	7462.0	7638.0	7743.4	7786.4	7789.5
66°	576.2	568.0	556.8	649.9	1133.9	3716.2	7410.8	7599.1	7767.0	7846.7	7870.4
67.5°	490.2	477.9	475.9	538.4	789.1	2883.1	6922.6	7218.4	7366.8	7573.5	7686.1
70°	374.6	368.5	386.9	464.6	605.9	1357.0	5516.4	5902.2	6158.1	6319.8	6424.2
72.5°	314.1	312.1	337.8	424.7	574.2	769.7	3861.4	4275.9	4543.1	4697.6	4840.9
75°	245.6	247.7	281.4	405.3	571.1	670.3	2243.4	2638.5	2794.0	3037.6	3223.8
77.5°	184.2	182.2	208.8	327.5	556.8	679.5	1165.8	1329.4	1500.4	1624.2	1669.3
80°	129.0	131.0	149.5	225.2	433.9	699.0	726.6	764.6	800.4	840.3	848.4
82.5°	85.9	87.0	110.6	154.6	300.8	667.3	678.5	661.1	633.5	598.7	560.9
85°	52.2	54.2	78.8	104.3	233.3	603.8	702.1	656.0	614.1	568.0	521.9
87.5°	26.6	29.7	47.1	61.4	138.2	297.8	730.7	696.9	639.7	569.1	517.8
90°	12.3	12.3	17.4	23.5	35.8	67.5	191.4	173.2	90.4	165.4	85.7
92.5°	4.1	4.1	5.1	6.1	6.1	6.1	7.2	7.2	7.2	7.2	7.2
95°	5.1	5.1	6.1	7.2	7.2	7.2	7.2	7.3	7.4	7.5	7.6
97.5°	7.2	7.2	8.2	8.2	9.2	9.2	12.3	12.1	11.9	11.7	11.5
100°	8.2	8.2	9.2	10.2	12.3	21.5	29.7	29.4	29.1	28.7	28.4
102.5°	11.3	11.3	13.3	18.4	27.6	40.9	51.1	50.8	50.5	50.2	49.9
105°	21.5	22.5	27.6	36.8	49.1	64.4	73.7	73.4	73.2	73.0	72.8
107.5°	41.9	43.0	50.1	59.3	74.7	90.0	97.2	97.1	97.0	96.9	96.8



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CATALOG NUMBER: ISW-AF-1200-LED-E1-SL3-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
110°	67.5	69.6	75.7	89.0	104.3	116.6	122.8	122.9	123.0	123.1	123.2
112.5°	101.3	101.3	108.4	123.8	137.1	146.3	151.4	151.6	151.8	152.0	152.2
115°	143.2	142.2	150.4	162.6	171.9	178.0	183.1	183.4	183.7	184.0	184.3
117.5°	188.2	188.2	193.3	201.5	206.6	209.7	215.8	216.3	216.7	217.1	217.5
120°	230.2	228.1	231.2	238.3	242.4	248.6	251.6	252.1	252.5	252.9	253.3
122.5°	269.0	266.0	267.0	273.1	277.2	283.4	285.4	285.8	286.2	286.6	287.0
125°	304.8	300.7	302.8	305.9	312.0	317.1	320.2	320.4	320.6	320.8	321.0
127.5°	337.6	336.6	336.6	340.6	346.8	347.8	352.9	353.0	353.1	353.2	353.3
130°	371.3	369.3	370.3	374.4	378.5	380.5	385.7	386.1	386.5	386.9	387.3
132.5°	405.1	403.0	402.0	410.2	413.3	414.3	420.4	420.9	421.5	422.0	422.5
135°	438.8	435.8	435.8	441.9	445.0	447.0	453.2	453.7	454.2	454.7	455.2
137.5°	470.6	467.5	469.5	470.6	474.6	478.7	483.9	484.1	484.3	484.5	484.7
140°	499.2	496.1	498.2	500.2	502.3	508.4	511.5	511.7	511.9	512.1	512.3
142.5°	529.9	526.8	528.9	529.9	533.0	537.0	539.1	539.7	540.3	540.9	541.6
145°	562.6	558.5	556.5	559.6	562.6	563.6	568.8	569.4	570.0	570.6	571.2
147.5°	588.2	585.1	584.1	587.2	587.2	588.2	593.3	593.8	594.3	594.8	595.4
150°	608.7	605.6	606.6	606.6	606.6	606.6	610.7	611.0	611.3	611.6	611.9
152.5°	625.0	622.0	622.0	623.0	624.0	624.0	625.0	625.3	625.6	625.9	626.3
155°	643.4	639.3	639.3	641.4	644.5	642.4	640.4	640.9	641.4	641.9	642.4
157.5°	660.8	657.8	657.8	658.8	660.8	659.8	658.8	659.2	659.6	660.0	660.4
160°	678.2	675.1	674.1	671.1	670.0	670.0	673.1	673.7	674.3	674.9	675.6
162.5°	688.4	684.4	684.4	680.3	676.2	678.2	682.3	682.7	683.1	683.5	683.9
165°	696.6	693.6	691.5	691.5	688.4	688.4	687.4	687.9	688.4	689.0	689.5
167.5°	705.8	702.8	699.7	701.7	703.8	700.7	693.6	694.2	694.8	695.4	696.0
170°	714.0	711.0	707.9	707.9	708.9	706.9	701.7	702.1	702.4	702.7	703.0
172.5°	715.0	713.0	711.0	708.9	705.8	705.8	704.8	705.1	705.4	705.7	706.0
175°	716.1	714.0	713.0	711.0	706.9	705.8	705.8	706.3	706.9	707.4	707.9
177.5°	723.2	721.2	716.1	715.0	713.0	711.0	709.9	710.4	711.0	711.5	712.0
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1



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CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6
2.5°	1841.2	1843.3	1841.2	1838.1	1841.2	1838.1	1837.1	1836.1	1837.1	1835.1	1834.0
5°	1832.0	1834.0	1834.0	1827.9	1826.9	1831.0	1824.8	1826.9	1824.8	1822.8	1818.7
7.5°	1788.0	1789.0	1790.1	1786.0	1789.0	1789.0	1787.0	1787.0	1784.9	1786.0	1781.9
10°	1726.5	1730.6	1734.7	1732.7	1731.7	1740.9	1736.8	1739.8	1739.8	1736.8	1737.8
12.5°	1660.0	1667.2	1672.3	1672.3	1676.4	1686.6	1685.6	1687.7	1695.8	1695.8	1692.8
15°	1598.7	1605.8	1614.0	1620.1	1628.3	1635.5	1640.6	1648.8	1652.9	1652.9	1658.0
17.5°	1550.5	1560.7	1569.9	1573.1	1584.3	1596.6	1599.7	1609.9	1616.1	1619.1	1625.3
20°	1503.4	1514.7	1525.9	1536.2	1546.4	1560.7	1567.9	1574.1	1584.3	1590.5	1599.7
22.5°	1448.2	1465.6	1479.9	1492.2	1509.6	1521.8	1536.2	1546.4	1558.7	1567.9	1575.1
25°	1396.0	1419.5	1439.0	1451.3	1474.8	1492.2	1509.6	1524.9	1540.3	1553.6	1563.8
27.5°	1347.8	1374.5	1398.1	1417.5	1443.1	1470.7	1488.1	1513.7	1534.1	1552.5	1564.8
30°	1324.3	1346.8	1371.5	1394.0	1419.5	1454.3	1483.0	1515.7	1541.3	1564.8	1583.3
32.5°	1329.4	1349.9	1371.5	1390.9	1417.5	1456.4	1486.0	1523.9	1561.7	1592.5	1616.1
35°	1370.4	1388.9	1403.2	1420.6	1444.1	1473.8	1505.5	1545.4	1592.5	1633.4	1664.1
37.5°	1456.4	1461.5	1475.8	1489.1	1501.4	1529.0	1558.7	1592.5	1646.7	1689.7	1732.7
40°	1562.8	1576.2	1589.5	1595.6	1609.9	1627.3	1640.6	1676.4	1724.5	1780.8	1827.9
42.5°	1721.4	1726.5	1728.6	1730.6	1735.7	1748.0	1767.5	1800.3	1847.3	1897.5	1949.6
45°	1899.5	1905.7	1911.8	1914.9	1907.7	1914.9	1935.3	1950.7	1996.8	2043.9	2110.3
47.5°	2146.2	2127.7	2118.5	2130.8	2124.7	2140.0	2149.2	2158.4	2213.8	2270.0	2326.3
50°	2462.4	2451.2	2436.9	2437.9	2449.1	2438.9	2445.1	2478.8	2497.2	2544.3	2619.0
52.5°	2968.0	2933.2	2879.0	2855.5	2868.8	2860.6	2863.6	2870.8	2858.5	2902.5	2965.9
55°	3592.3	3547.3	3511.5	3491.0	3415.2	3409.1	3359.0	3340.5	3300.7	3342.6	3328.3
57.5°	4037.5	4008.8	3990.4	3929.1	3894.3	3824.6	3804.1	3779.6	3724.4	3752.0	3776.5
60°	4897.2	4794.9	4760.1	4652.6	4616.8	4550.3	4465.3	4423.3	4394.7	4421.3	4404.9
62.5°	6332.1	6189.9	6162.2	5907.3	5844.9	5691.4	5531.7	5510.2	5420.2	5363.9	5350.6
65°	7733.2	7529.5	7377.0	7098.7	6910.3	6691.3	6447.8	6269.7	6086.5	5994.4	5872.6
66°	7837.5	7756.7	7603.2	7440.5	7166.2	6926.7	6650.4	6458.0	6252.3	6090.5	5986.2
67.5°	7659.5	7616.5	7562.3	7451.8	7279.8	7056.7	6794.6	6549.0	6301.4	6111.0	5944.2
70°	6474.4	6521.4	6582.8	6554.1	6455.9	6368.9	6137.6	6000.5	5814.2	5564.5	5462.1
72.5°	4886.9	5012.9	4969.9	4808.2	4732.5	4672.0	4588.1	4496.0	4228.9	4198.2	4077.4
75°	3144.0	3102.1	3129.7	2933.2	2799.1	2743.9	2544.3	2462.4	2261.8	2131.8	2032.6
77.5°	1657.0	1575.1	1511.6	1338.6	1214.9	1142.1	1044.9	930.3	754.3	744.1	583.4
80°	768.6	706.1	648.9	588.5	528.1	448.3	388.9	317.3	280.4	240.5	224.1
82.5°	521.9	482.0	447.2	407.3	361.3	306.0	264.0	224.1	191.4	172.0	156.6
85°	472.8	429.8	391.0	340.8	292.7	246.6	201.6	166.8	136.2	118.8	108.5
87.5°	459.5	406.3	365.4	311.1	264.0	217.0	174.0	135.1	105.5	85.9	73.7
90°	66.5	70.8	53.6	51.8	27.4	32.7	26.6	19.4	20.5	17.4	18.4
92.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.1	7.0	6.9	6.8	6.6
95°	7.7	7.8	7.9	8.0	8.1	8.2	8.1	8.0	7.9	7.8	7.7
97.5°	11.3	11.0	10.8	10.6	10.4	10.2	10.1	10.0	9.9	9.8	9.7
100°	28.1	27.8	27.5	27.2	26.9	26.6	26.3	26.0	25.7	25.4	25.1
102.5°	49.6	49.3	49.0	48.7	48.4	48.1	47.6	47.1	46.5	46.0	45.5
105°	72.6	72.4	72.2	72.0	71.8	71.6	71.1	70.6	70.1	69.6	69.0
107.5°	96.7	96.6	96.5	96.4	96.3	96.2	95.7	95.3	94.9	94.5	94.1



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CATALOG NUMBER: ISW-AF-1200-LED-E1-SL3-ULG

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
110°	123.3	123.4	123.5	123.6	123.7	123.8	123.6	123.4	123.2	123.0	122.8
112.5°	152.4	152.6	152.8	153.0	153.2	153.4	153.3	153.2	153.1	153.0	152.9
115°	184.6	184.9	185.3	185.6	185.9	186.2	185.9	185.6	185.3	184.9	184.6
117.5°	217.9	218.3	218.7	219.1	219.5	219.9	219.4	218.9	218.4	217.9	217.4
120°	253.7	254.1	254.5	254.9	255.3	255.7	255.2	254.7	254.2	253.7	253.2
122.5°	287.4	287.9	288.3	288.7	289.1	289.5	289.0	288.5	288.0	287.4	286.9
125°	321.2	321.4	321.6	321.8	322.0	322.2	321.7	321.2	320.7	320.2	319.7
127.5°	353.4	353.5	353.6	353.7	353.8	353.9	353.9	353.9	353.9	353.9	353.9
130°	387.7	388.1	388.5	388.9	389.3	389.7	389.7	389.7	389.7	389.7	389.7
132.5°	423.0	423.5	424.0	424.5	425.0	425.5	425.3	425.1	424.9	424.7	424.5
135°	455.7	456.2	456.7	457.3	457.8	458.3	458.2	458.1	458.0	457.9	457.8
137.5°	484.9	485.1	485.3	485.5	485.7	485.9	486.0	486.1	486.2	486.3	486.4
140°	512.5	512.7	512.9	513.1	513.3	513.5	513.7	513.9	514.1	514.3	514.5
142.5°	542.2	542.8	543.4	544.0	544.6	545.2	545.2	545.2	545.2	545.2	545.2
145°	571.8	572.4	573.1	573.7	574.3	574.9	574.8	574.7	574.6	574.5	574.4
147.5°	595.9	596.4	596.9	597.4	597.9	598.4	598.5	598.6	598.7	598.8	598.9
150°	612.2	612.5	612.8	613.2	613.5	613.8	614.1	614.4	614.7	615.0	615.3
152.5°	626.6	626.9	627.2	627.5	627.8	628.1	628.5	628.9	629.3	629.7	630.1
155°	642.9	643.4	643.9	644.5	645.0	645.5	646.0	646.5	647.0	647.5	648.0
157.5°	660.8	661.2	661.6	662.1	662.5	662.9	663.1	663.3	663.5	663.7	663.9
160°	676.2	676.8	677.4	678.0	678.6	679.2	678.9	678.6	678.3	678.0	677.7
162.5°	684.4	684.8	685.2	685.6	686.0	686.4	686.3	686.2	686.1	686.0	685.9
165°	690.0	690.5	691.0	691.5	692.0	692.5	692.8	693.2	693.5	693.8	694.1
167.5°	696.6	697.2	697.9	698.5	699.1	699.7	700.1	700.5	700.9	701.3	701.7
170°	703.3	703.6	703.9	704.2	704.5	704.8	705.3	705.8	706.3	706.9	707.4
172.5°	706.3	706.7	707.0	707.3	707.6	707.9	708.1	708.3	708.5	708.7	708.9
175°	708.4	708.9	709.4	709.9	710.4	711.0	711.1	711.2	711.3	711.4	711.5
177.5°	712.5	713.0	713.5	714.0	714.5	715.0	715.2	715.5	715.7	715.9	716.1
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1



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CATALOG NUMBER: ISW-AF-1200-LED-E1-SL3-ULG

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°
0°	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6
2.5°	1832.0	1828.9	1832.0	1831.0	1826.9	1827.9	1828.9	1824.8	1822.8	1822.8	1821.8
5°	1815.6	1813.6	1815.6	1814.6	1808.5	1807.5	1807.5	1804.4	1800.3	1797.2	1795.2
7.5°	1776.7	1778.7	1777.7	1774.6	1771.5	1771.5	1768.5	1761.3	1757.2	1753.1	1749.0
10°	1732.7	1732.7	1733.7	1732.7	1727.6	1725.5	1721.4	1717.3	1718.4	1708.1	1699.9
12.5°	1693.8	1693.8	1692.8	1690.7	1687.7	1686.6	1686.6	1674.4	1671.3	1668.2	1659.0
15°	1657.0	1659.0	1659.0	1659.0	1653.9	1653.9	1648.8	1640.6	1640.6	1631.4	1622.2
17.5°	1628.3	1631.4	1630.4	1631.4	1632.4	1626.3	1617.1	1612.0	1605.8	1600.7	1588.4
20°	1603.8	1605.8	1606.9	1606.9	1603.8	1599.7	1591.5	1583.3	1579.2	1568.9	1553.6
22.5°	1581.3	1585.4	1586.4	1586.4	1582.3	1579.2	1570.9	1558.7	1550.5	1538.2	1523.9
25°	1572.1	1577.2	1574.1	1576.2	1572.1	1564.8	1553.6	1543.3	1531.1	1515.7	1500.4
27.5°	1575.1	1582.3	1580.3	1579.2	1574.1	1568.9	1554.6	1542.3	1528.0	1509.6	1490.1
30°	1593.6	1605.8	1600.7	1596.6	1595.6	1583.3	1569.9	1552.5	1536.2	1514.7	1492.2
32.5°	1628.3	1634.5	1635.5	1632.4	1627.3	1617.1	1598.7	1576.2	1557.6	1532.1	1505.5
35°	1685.6	1691.8	1689.7	1689.7	1684.6	1668.2	1645.7	1623.2	1597.6	1568.9	1541.3
37.5°	1765.4	1776.7	1774.6	1770.5	1764.4	1744.9	1727.6	1699.9	1671.3	1633.4	1601.7
40°	1865.8	1883.2	1898.5	1895.4	1881.1	1863.7	1847.3	1815.6	1787.0	1744.9	1710.2
42.5°	2000.9	2024.4	2043.9	2058.2	2052.0	2029.5	2000.9	1987.5	1946.6	1903.6	1867.8
45°	2173.8	2223.0	2240.4	2257.8	2257.8	2243.4	2237.3	2210.7	2167.6	2110.3	2076.6
47.5°	2402.0	2467.6	2487.0	2516.7	2534.1	2518.7	2507.5	2462.4	2433.8	2354.9	2346.8
50°	2679.4	2744.9	2798.1	2833.0	2827.7	2841.1	2814.4	2788.9	2749.0	2684.5	2662.0
52.5°	3033.5	3085.7	3133.8	3154.3	3175.8	3172.7	3166.5	3149.2	3099.0	3064.2	3006.9
55°	3396.8	3439.8	3498.2	3531.9	3559.6	3554.4	3530.9	3489.0	3498.2	3425.5	3393.7
57.5°	3810.3	3857.3	3920.9	3952.6	3964.9	4027.3	4011.9	4006.8	3989.4	3963.8	3931.1
60°	4521.6	4534.9	4587.1	4666.9	4765.2	4745.8	4770.3	4786.7	4799.0	4741.7	4737.6
62.5°	5369.1	5385.4	5430.4	5446.8	5461.1	5463.2	5430.4	5430.4	5374.2	5300.4	5243.1
65°	5831.6	5797.9	5767.2	5749.7	5711.9	5678.1	5629.0	5562.5	5467.3	5353.7	5251.3
66°	5898.1	5829.6	5789.7	5745.6	5685.3	5622.9	5564.5	5473.4	5361.9	5226.8	5091.6
67.5°	5833.7	5739.5	5646.4	5581.9	5498.0	5385.4	5283.0	5176.6	5071.2	4885.9	4760.1
70°	5245.2	5132.6	5030.3	4889.0	4756.0	4645.4	4469.4	4284.1	4131.7	3937.2	3813.4
72.5°	3895.3	3762.2	3629.1	3430.6	3237.1	3208.5	2987.4	2769.4	2652.8	2496.2	2370.3
75°	1924.1	1756.2	1517.8	1411.4	1256.8	1181.1	1139.1	981.5	943.7	789.1	787.1
77.5°	543.5	466.7	414.5	361.3	338.8	322.4	266.1	254.8	231.3	227.2	213.9
80°	205.7	194.5	189.3	184.2	179.1	176.0	174.0	165.8	161.7	155.6	152.5
82.5°	148.4	144.3	135.1	132.1	128.0	121.8	120.8	115.7	112.6	106.5	104.3
85°	100.2	95.1	90.0	84.9	82.9	81.8	78.8	76.7	74.7	71.6	70.6
87.5°	67.5	62.4	56.3	54.2	53.2	54.2	55.2	53.2	52.2	50.1	49.1
90°	17.4	20.5	19.4	19.4	21.5	19.2	19.0	19.8	18.6	18.4	17.2
92.5°	6.5	6.4	6.3	6.2	6.1	6.1	6.1	6.1	6.1	6.1	6.1
95°	7.6	7.5	7.4	7.3	7.2	7.2	7.2	7.2	7.2	7.2	7.2
97.5°	9.6	9.5	9.4	9.3	9.2	9.1	9.0	8.9	8.8	8.7	8.6
100°	24.8	24.4	24.1	23.8	23.5	23.1	22.7	22.3	21.9	21.5	21.1
102.5°	45.0	44.5	44.0	43.5	43.0	42.7	42.4	42.0	41.7	41.4	41.1
105°	68.5	68.0	67.5	67.0	66.5	66.1	65.7	65.3	64.9	64.4	64.0
107.5°	93.7	93.3	92.9	92.5	92.1	91.8	91.5	91.1	90.8	90.5	90.2



REPORT NUMBER: P226900
 CATALOG NUMBER: ISW-AF-1200-LED-E1-SL3-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	
110°	122.5	122.3	122.1	121.9	121.7	121.4	121.1	120.8	120.5	120.2	119.9	0°
112.5°	152.8	152.7	152.6	152.5	152.4	152.2	152.0	151.8	151.6	151.4	151.2	2.5°
115°	184.3	184.0	183.7	183.4	183.1	182.9	182.7	182.5	182.3	182.1	181.9	5°
117.5°	216.9	216.4	215.8	215.3	214.8	214.6	214.4	214.2	214.0	213.8	213.6	7.5°
120°	252.7	252.2	251.6	251.1	250.6	250.4	250.2	250.0	249.8	249.6	249.4	10°
122.5°	286.4	285.9	285.4	284.9	284.4	284.2	284.0	283.8	283.6	283.4	283.2	12.5°
125°	319.2	318.6	318.1	317.6	317.1	317.1	317.1	317.1	317.1	317.1	317.1	15°
127.5°	353.9	353.9	353.9	353.9	353.9	353.8	353.7	353.6	353.5	353.4	353.3	17.5°
130°	389.7	389.7	389.7	389.7	389.7	389.5	389.3	389.1	388.9	388.7	388.5	20°
132.5°	424.3	424.1	423.9	423.7	423.5	423.5	423.5	423.5	423.5	423.5	423.5	22.5°
135°	457.7	457.6	457.5	457.4	457.3	457.6	457.9	458.2	458.5	458.8	459.1	25°
137.5°	486.5	486.6	486.7	486.8	486.9	487.4	487.9	488.5	489.0	489.5	490.0	27.5°
140°	514.7	515.0	515.2	515.4	515.6	516.1	516.6	517.1	517.6	518.1	518.6	30°
142.5°	545.2	545.2	545.2	545.2	545.2	545.3	545.4	545.5	545.6	545.7	545.8	32.5°
145°	574.3	574.2	574.1	574.0	573.9	573.6	573.3	573.0	572.6	572.3	572.0	35°
147.5°	599.0	599.1	599.2	599.3	599.4	599.1	598.8	598.5	598.2	597.9	597.6	37.5°
150°	615.6	615.9	616.2	616.5	616.8	617.1	617.5	617.8	618.1	618.4	618.7	40°
152.5°	630.5	631.0	631.4	631.8	632.2	632.7	633.2	633.7	634.2	634.7	635.3	42.5°
155°	648.6	649.1	649.6	650.1	650.6	650.8	651.0	651.2	651.4	651.6	651.8	45°
157.5°	664.1	664.3	664.5	664.7	664.9	664.9	664.9	664.9	664.9	664.9	664.9	47.5°
160°	677.4	677.1	676.8	676.5	676.2	676.1	676.0	675.9	675.8	675.7	675.6	50°
162.5°	685.8	685.7	685.6	685.5	685.4	685.2	685.0	684.8	684.6	684.4	684.1	52.5°
165°	694.4	694.7	695.0	695.3	695.6	695.4	695.2	695.0	694.8	694.6	694.4	55°
167.5°	702.2	702.6	703.0	703.4	703.8	703.8	703.8	703.8	703.8	703.8	703.8	57.5°
170°	707.9	708.4	708.9	709.4	709.9	710.1	710.3	710.5	710.7	711.0	711.2	60°
172.5°	709.1	709.3	709.5	709.7	709.9	710.1	710.3	710.5	710.7	711.0	711.2	62.5°
175°	711.6	711.7	711.8	711.9	712.0	711.8	711.6	711.4	711.2	711.0	710.7	65°
177.5°	716.3	716.5	716.7	716.9	717.1	716.8	716.5	716.2	715.9	715.6	715.2	66°
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

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 NUMBER: ISW-AF-1200-LED-E1-SL3-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

82°	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	82°	
1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	110°	119.6
1819.7	1816.7	1817.7	1813.6	1812.6	1814.6	1815.6	1815.6	1812.6	1794.2	1772.6	112.5°	151.0
1793.1	1787.0	1786.0	1782.9	1777.7	1783.9	1780.8	1775.6	1769.5	1748.0	1706.1	115°	181.7
1743.9	1739.8	1734.7	1730.6	1727.6	1725.5	1724.5	1719.4	1708.1	1668.2	1597.6	117.5°	213.4
1696.9	1691.8	1685.6	1676.4	1672.3	1666.2	1666.2	1653.9	1645.7	1595.6	1491.2	120°	249.2
1650.8	1641.6	1638.6	1632.4	1621.2	1616.1	1608.9	1596.6	1584.3	1523.9	1386.8	122.5°	282.9
1616.1	1606.9	1593.6	1589.5	1577.2	1565.8	1556.6	1540.3	1527.0	1447.2	1277.3	125°	317.1
1578.2	1570.9	1556.6	1547.4	1534.1	1520.8	1505.5	1485.0	1475.8	1374.5	1172.9	127.5°	353.2
1547.4	1531.1	1514.7	1506.5	1490.1	1474.8	1459.4	1434.9	1416.5	1302.8	1062.3	130°	388.3
1511.6	1497.3	1479.9	1465.6	1443.1	1425.7	1408.3	1382.7	1360.1	1230.2	950.8	132.5°	423.5
1487.1	1466.6	1448.2	1431.8	1406.3	1385.8	1361.1	1333.5	1311.0	1160.6	828.0	135°	459.4
1472.7	1452.3	1428.8	1408.3	1378.6	1355.0	1328.4	1297.7	1269.1	1104.3	712.3	137.5°	490.5
1468.7	1444.1	1419.5	1394.0	1363.3	1333.5	1301.8	1271.1	1234.3	1050.1	586.5	140°	519.1
1480.9	1451.3	1423.6	1393.0	1357.0	1323.3	1291.6	1251.7	1214.9	1003.0	462.6	142.5°	545.9
1514.7	1478.9	1447.2	1413.4	1372.5	1335.6	1297.7	1252.7	1211.8	970.3	354.1	145°	571.7
1567.9	1534.1	1497.3	1463.5	1416.5	1375.6	1333.5	1285.4	1236.3	957.0	267.1	147.5°	597.3
1675.4	1630.4	1592.5	1556.6	1502.4	1460.5	1412.4	1354.0	1298.7	969.2	223.1	150°	619.0
1825.9	1769.5	1734.7	1703.0	1635.5	1589.5	1534.1	1467.6	1405.2	1004.0	196.5	152.5°	635.8
2033.6	1990.6	1928.2	1879.1	1810.5	1759.3	1697.9	1618.1	1548.4	1053.1	183.2	155°	652.0
2293.6	2237.3	2175.8	2125.7	2051.0	1961.9	1897.5	1801.3	1722.4	1129.8	177.1	157.5°	664.9
2611.8	2544.3	2461.4	2419.5	2316.1	2246.5	2160.5	2057.2	1956.8	1248.6	180.1	160°	675.5
2957.8	2885.1	2820.6	2740.8	2646.7	2568.8	2487.0	2377.4	2251.6	1473.8	192.4	162.5°	683.9
3323.2	3276.1	3214.6	3111.3	3060.2	2961.9	2857.5	2736.7	2645.7	1766.4	222.1	165°	694.2
3855.3	3804.1	3797.0	3695.7	3617.9	3528.9	3446.9	3346.7	3239.2	2286.4	291.6	167.5°	703.8
4674.1	4620.9	4560.5	4481.6	4389.6	4279.0	4177.7	4042.6	3922.9	2807.3	324.5	170°	711.4
5159.3	5060.9	4952.5	4832.7	4698.6	4561.5	4425.4	4252.4	4078.4	2839.1	292.7	172.5°	711.4
5118.2	4996.5	4858.3	4695.5	4554.4	4385.5	4239.1	4016.0	3857.3	2527.9	238.4	175°	710.5
4966.8	4800.0	4670.0	4520.6	4343.6	4192.1	4037.5	3817.4	3636.3	2318.1	218.0	177.5°	714.9
4578.9	4436.6	4256.5	4113.3	3982.2	3801.1	3655.7	3450.0	3325.2	2010.1	195.5	180°	716.1
3659.8	3463.4	3310.9	3199.3	3051.0	2887.2	2758.2	2585.2	2474.7	1330.4	168.9		
2131.8	2082.7	1911.8	1815.6	1725.5	1592.5	1490.1	1407.3	1261.9	644.8	149.5		
657.0	611.0	604.9	513.7	543.5	464.6	452.3	411.4	411.4	247.7	117.7		
209.8	205.7	197.5	186.3	182.2	182.2	177.1	176.0	167.9	133.1	88.0		
148.4	145.4	142.3	139.2	137.2	138.2	134.1	132.1	130.0	96.2	69.6		
102.3	99.2	93.1	93.1	91.0	90.0	91.0	87.0	85.9	67.5	58.3		
69.6	68.5	67.5	66.5	65.5	64.4	63.4	60.4	58.3	47.1	40.9		
46.0	38.9	37.8	32.7	31.7	30.7	28.6	30.7	33.8	33.8	26.6		
18.0	16.8	17.6	17.4	15.3	16.4	16.4	14.3	14.3	17.4	18.4		
6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1		
7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2		
8.5	8.4	8.3	8.2	8.2	8.2	8.2	8.2	8.2	8.2	9.2		
20.7	20.3	19.8	19.4	19.4	19.4	19.4	19.4	19.4	19.4	23.5		
40.8	40.5	40.2	39.9	39.7	39.5	39.3	39.1	38.9	39.9	43.0		
63.6	63.2	62.8	62.4	62.4	62.4	62.4	62.4	62.4	62.4	66.5		
89.9	89.6	89.3	89.0	88.8	88.6	88.4	88.2	88.0	89.0	92.1		

'226900
 ISW-AF-1200-LED-E1-SL3-ULG

REPORT NUMBER: P226900
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TION (continued):

CANDELA DISTRIBUTION (con

83°	84°	85°	86°	87°	88°	89°	90°	95°	105°		115°	125°
119.3	119.0	118.7	118.9	119.1	119.3	119.5	119.7	118.7	121.7	0°	1813.6	1813.6
150.8	150.6	150.4	150.4	150.4	150.4	150.4	150.4	150.4	152.4	2.5°	1754.2	1737.8
181.5	181.3	181.1	181.3	181.5	181.7	181.9	182.1	181.1	183.1	5°	1661.1	1624.2
213.2	213.0	212.8	213.0	213.2	213.4	213.6	213.8	212.8	214.8	7.5°	1535.1	1463.5
249.0	248.8	248.6	248.6	248.6	248.6	248.6	248.6	248.6	250.6	10°	1390.9	1287.5
282.7	282.5	282.3	282.5	282.7	282.9	283.2	283.4	282.3	284.4	12.5°	1241.5	1109.4
317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	15°	1102.2	927.2
353.1	353.0	352.9	353.3	353.7	354.1	354.6	355.0	352.9	353.9	17.5°	955.9	740.0
388.1	387.9	387.7	387.9	388.1	388.3	388.5	388.7	387.7	389.7	20°	815.7	558.8
423.5	423.5	423.5	423.7	423.9	424.1	424.3	424.5	423.5	423.5	22.5°	657.0	392.0
459.7	460.0	460.3	460.5	460.7	460.9	461.1	461.4	460.3	457.3	25°	482.0	284.5
491.0	491.5	492.0	492.2	492.4	492.7	492.9	493.1	492.0	486.9	27.5°	343.9	227.2
519.7	520.2	520.7	521.1	521.5	521.9	522.3	522.7	520.7	515.6	30°	256.9	191.4
546.1	546.2	546.3	546.7	547.1	547.5	547.9	548.3	546.3	545.2	32.5°	205.7	165.8
571.4	571.1	570.8	571.2	571.6	572.0	572.4	572.9	570.8	573.9	35°	175.0	150.5
597.0	596.7	596.4	596.8	597.2	597.6	598.0	598.4	596.4	599.4	37.5°	156.6	140.2
619.3	619.6	619.9	620.7	621.5	622.4	623.2	624.0	619.9	616.8	40°	146.4	135.1
636.3	636.8	637.3	638.3	639.3	640.4	641.4	642.4	637.3	632.2	42.5°	140.2	130.0
652.2	652.4	652.6	653.3	653.9	654.5	655.1	655.7	652.6	650.6	45°	137.2	126.9
664.9	664.9	664.9	665.9	667.0	668.0	669.0	670.0	664.9	664.9	47.5°	135.1	122.9
675.4	675.2	675.1	676.4	677.6	678.8	680.1	681.3	675.1	676.2	50°	133.1	122.9
683.7	683.5	683.3	684.6	685.8	687.0	688.2	689.5	683.3	685.4	52.5°	134.1	124.9
694.0	693.8	693.6	694.4	695.2	696.0	696.8	697.7	693.6	695.6	55°	139.2	124.9
703.8	703.8	703.8	705.0	706.2	707.5	708.7	709.9	703.8	703.8	57.5°	147.4	124.9
711.6	711.8	712.0	713.0	714.0	715.0	716.1	717.1	712.0	709.9	60°	153.5	126.9
711.6	711.8	712.0	713.0	714.0	715.0	716.1	717.1	712.0	709.9	62.5°	155.6	131.0
710.3	710.1	709.9	711.0	712.0	713.0	714.0	715.0	709.9	712.0	65°	153.5	133.1
714.6	714.3	714.0	714.8	715.7	716.5	717.3	718.1	714.0	717.1	66°	151.5	133.1
716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	67.5°	148.4	131.0
										70°	141.3	122.9
										72.5°	126.9	110.6
										75°	108.5	89.0
										77.5°	88.0	71.6
										80°	65.5	54.2
										82.5°	48.1	41.9
										85°	33.8	29.7
										87.5°	20.5	18.4
										90°	14.3	12.3
										92.5°	7.2	7.2
										95°	8.2	7.2
										97.5°	10.2	12.3
										100°	26.6	29.7
										102.5°	48.1	51.1
										105°	71.6	73.7
										107.5°	96.2	97.2



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tinued):

135°	145°	155°	165°	175°	180°
1813.6	1813.6	1813.6	1813.6	1813.6	1813.6
1726.5	1725.5	1699.9	1694.8	1677.4	1686.6
1580.3	1562.8	1516.7	1507.5	1488.1	1483.0
1405.2	1357.0	1320.2	1279.3	1240.4	1259.9
1200.5	1119.6	1038.8	985.6	964.1	957.0
1006.1	860.7	759.4	655.0	618.2	631.5
770.7	604.9	469.7	409.4	374.6	368.5
543.5	387.9	325.5	310.1	302.9	302.9
368.5	295.7	272.2	265.0	265.0	266.1
280.4	248.7	238.4	239.5	243.6	244.6
232.3	220.0	214.9	222.1	230.3	231.3
200.6	197.5	198.6	207.8	215.9	217.0
176.0	179.1	183.2	191.4	198.6	200.6
158.7	163.8	166.8	172.0	176.0	177.1
146.4	152.5	151.5	154.6	157.6	158.7
139.2	142.3	139.2	141.3	141.3	143.3
133.1	134.1	129.0	130.0	132.1	132.1
126.9	125.9	120.8	122.9	125.9	126.9
120.8	118.8	114.7	118.8	123.9	124.9
115.7	113.6	111.6	116.7	122.9	123.9
113.6	111.6	109.6	116.7	122.9	123.9
113.6	111.6	109.6	114.7	120.8	121.8
114.7	112.6	108.5	113.6	117.7	118.8
115.7	113.6	106.5	109.6	111.6	112.6
115.7	111.6	104.3	105.5	105.5	106.5
113.6	108.5	100.2	100.2	99.2	99.2
113.6	104.3	96.2	94.1	92.1	92.1
112.6	103.3	95.1	92.1	89.0	89.0
110.6	101.3	93.1	89.0	85.9	85.9
103.3	97.2	88.0	83.9	80.8	79.8
92.1	89.0	81.8	78.8	75.7	74.7
77.7	78.8	74.7	72.6	69.6	68.5
65.5	67.5	65.5	64.4	62.4	61.4
52.2	56.3	54.2	54.2	55.2	53.2
39.9	45.0	43.0	45.0	47.1	44.0
27.6	32.7	32.7	33.8	34.8	32.7
17.4	21.5	20.5	21.5	21.5	20.5
11.3	15.3	12.3	13.3	10.2	9.2
6.1	6.1	6.1	5.1	4.1	4.1
7.2	7.2	7.2	6.1	5.1	5.1
9.2	9.2	8.2	8.2	7.2	7.2
21.5	12.3	10.2	9.2	8.2	8.2
40.9	27.6	18.4	13.3	11.3	11.3
64.4	49.1	36.8	27.6	22.5	21.5
90.0	74.7	59.3	50.1	43.0	41.9

CANDELA DISTRIBUTION (continued):

	115°	125°	135°
110°	123.8	122.8	116.6
112.5°	153.4	151.4	146.3
115°	186.2	183.1	178.0
117.5°	219.9	215.8	209.7
120°	255.7	251.6	248.6
122.5°	289.5	285.4	283.4
125°	322.2	320.2	317.1
127.5°	353.9	352.9	347.8
130°	389.7	385.7	380.5
132.5°	425.5	420.4	414.3
135°	458.3	453.2	447.0
137.5°	485.9	483.9	478.7
140°	513.5	511.5	508.4
142.5°	545.2	539.1	537.0
145°	574.9	568.8	563.6
147.5°	598.4	593.3	588.2
150°	613.8	610.7	606.6
152.5°	628.1	625.0	624.0
155°	645.5	640.4	642.4
157.5°	662.9	658.8	659.8
160°	679.2	673.1	670.0
162.5°	686.4	682.3	678.2
165°	692.5	687.4	688.4
167.5°	699.7	693.6	700.7
170°	704.8	701.7	706.9
172.5°	707.9	704.8	705.8
175°	711.0	705.8	705.8
177.5°	715.0	709.9	711.0
180°	716.1	716.1	716.1



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145°	155°	165°	175°	180°
104.3	89.0	75.7	69.6	67.5
137.1	123.8	108.4	101.3	101.3
171.9	162.6	150.4	142.2	143.2
206.6	201.5	193.3	188.2	188.2
242.4	238.3	231.2	228.1	230.2
277.2	273.1	267.0	266.0	269.0
312.0	305.9	302.8	300.7	304.8
346.8	340.6	336.6	336.6	337.6
378.5	374.4	370.3	369.3	371.3
413.3	410.2	402.0	403.0	405.1
445.0	441.9	435.8	435.8	438.8
474.6	470.6	469.5	467.5	470.6
502.3	500.2	498.2	496.1	499.2
533.0	529.9	528.9	526.8	529.9
562.6	559.6	556.5	558.5	562.6
587.2	587.2	584.1	585.1	588.2
606.6	606.6	606.6	605.6	608.7
624.0	623.0	622.0	622.0	625.0
644.5	641.4	639.3	639.3	643.4
660.8	658.8	657.8	657.8	660.8
670.0	671.1	674.1	675.1	678.2
676.2	680.3	684.4	684.4	688.4
688.4	691.5	691.5	693.6	696.6
703.8	701.7	699.7	702.8	705.8
708.9	707.9	707.9	711.0	714.0
705.8	708.9	711.0	713.0	715.0
706.9	711.0	713.0	714.0	716.1
713.0	715.0	716.1	721.2	723.2
716.1	716.1	716.1	716.1	716.1

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