

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: P271875

Luminaire Tested: **ISW-AF-1200-LED-E1-SLL-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35948)-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-SLL-7027-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR LEFT, WITH
UPLIGHT GLOW
Light Source: (16) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6866.7 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type IV - 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

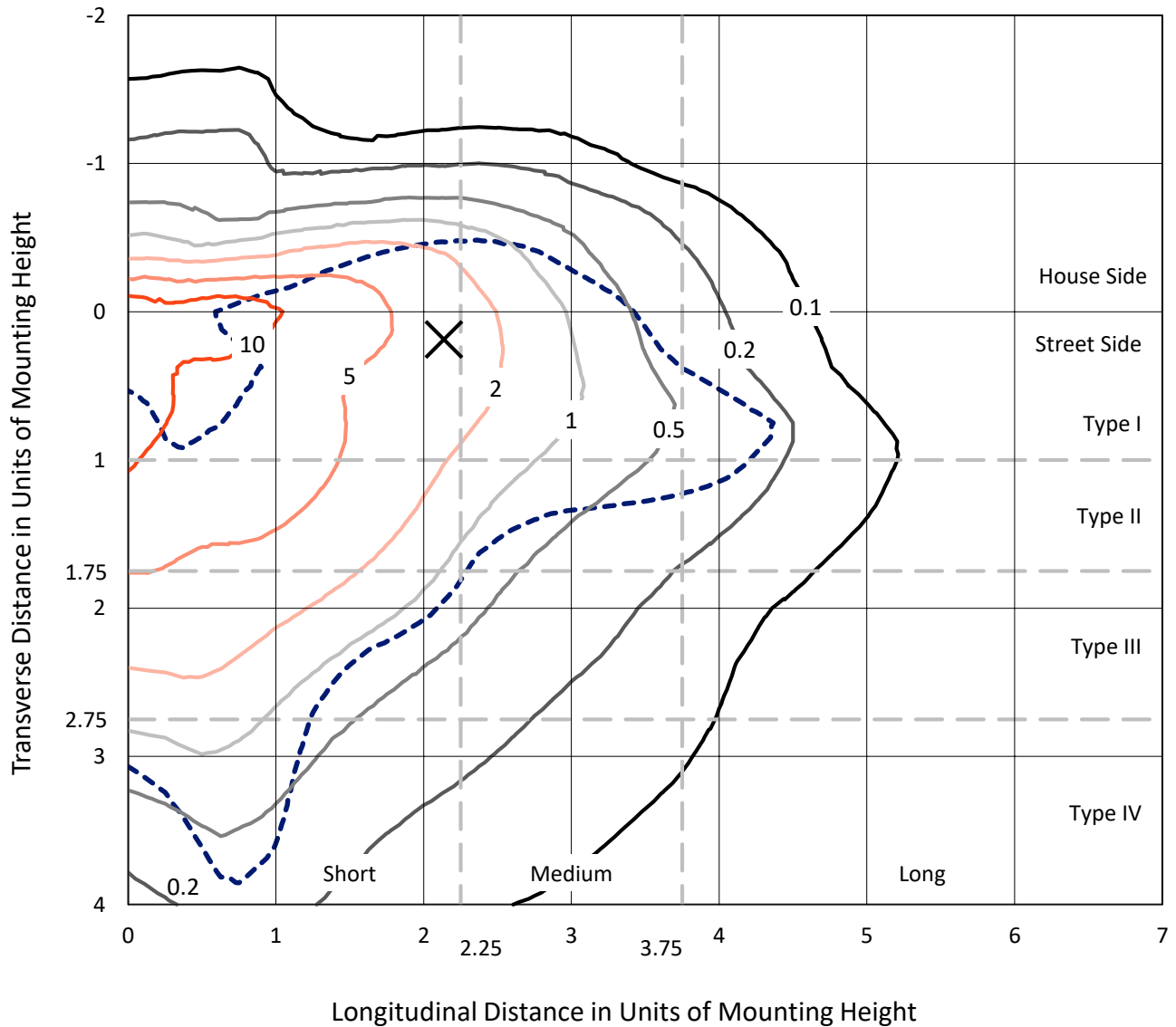


REPORT NUMBER: P271875

CATALOG NUMBER: ISW-AF-1200-LED-E1-SLL-7027-ULG

Iso-Footcandle Lines of Horizontal Illumination

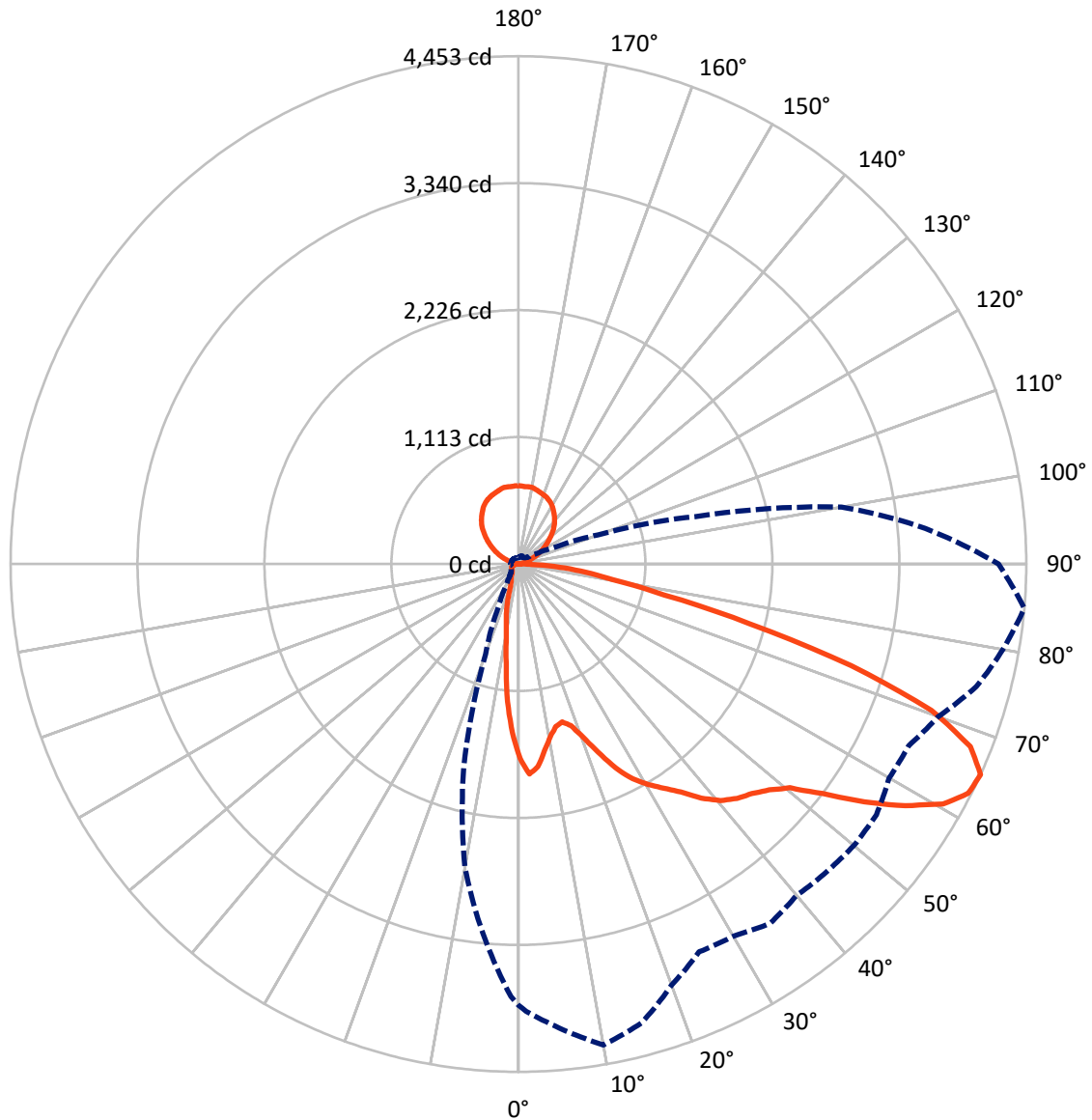
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.7 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P271875
CATALOG NUMBER: ISW-AF-1200-LED-E1-SLL-7027-ULG

Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P271875

CATALOG NUMBER: ISW-AF-1200-LED-E1-SLL-7027-ULG

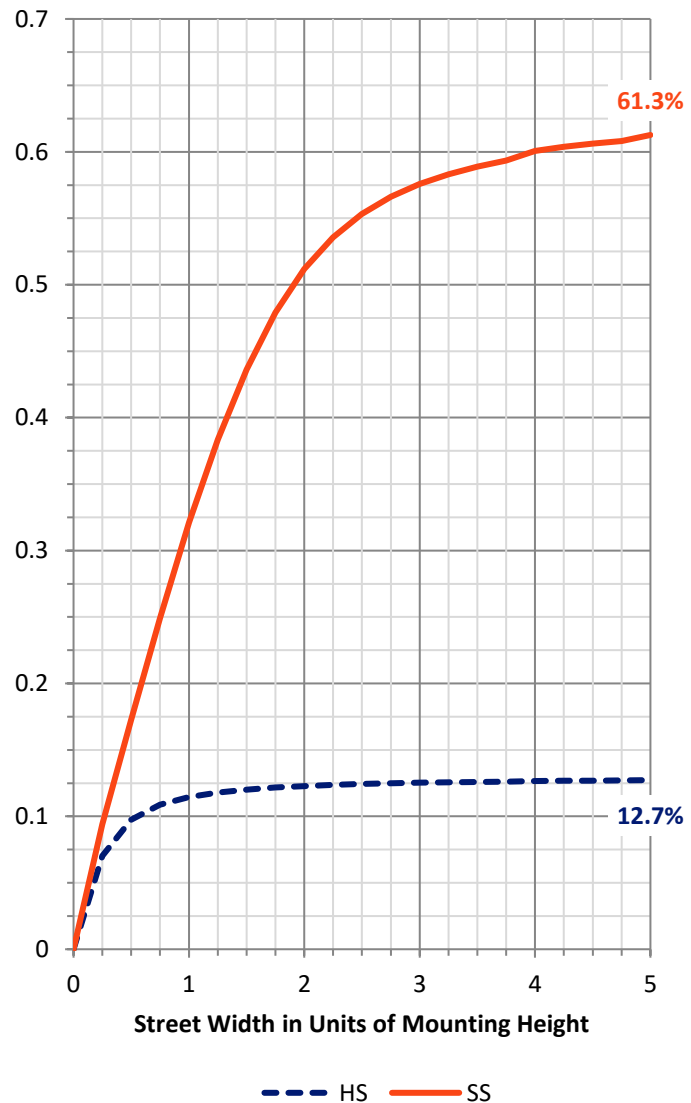
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	886.0	851.5	1737.6
	% Fixture	12.9	12.4	25.3
Street Side	Lumens	4277.4	851.7	5129.1
	% Fixture	62.3	12.4	74.7
Total	Lumens	5163.4	1703.2	6866.7
	% Fixture	75.2	24.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	1.8
10°-20°	243.1	3.5
20°-30°	346.7	5.0
30°-40°	502.9	7.3
40°-50°	719.5	10.5
50°-60°	1104.7	16.1
60°-70°	1278.6	18.6
70°-80°	652.3	9.5
80°-90°	189.3	2.8
90°-100°	9.3	0.1
100°-110°	56.3	0.8
110°-120°	163.0	2.4
120°-130°	268.1	3.9
130°-140°	330.6	4.8
140°-150°	338.2	4.9
150°-160°	284.9	4.1
160°-170°	187.6	2.7
170°-180°	65.0	0.9
0°-90°	5163.4	75.2
0°-180°	6866.7	100.0



REPORT NUMBER: P271875

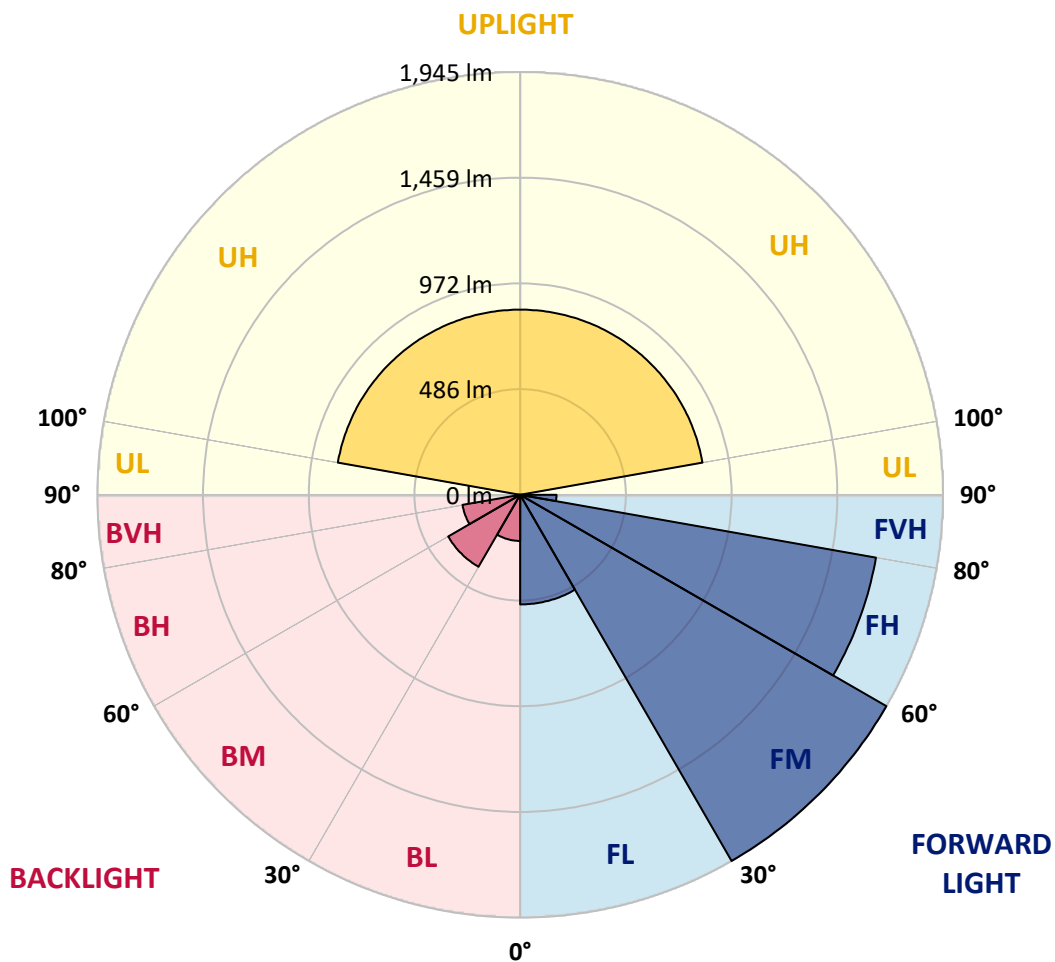
CATALOG NUMBER: ISW-AF-1200-LED-E1-SLL-7027-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	504.2	7.3			
FM (30°-60°)	1944.7	28.3			
FH (60°-80°)	1661.6	24.2			G1/1800
FVH (80°-90°)	166.9	2.4			G2/225
BL (0°-30°)	212.0	3.1	B1/500		
BM (30°-60°)	382.4	5.6	B1/1000		
BH (60°-80°)	269.3	3.9	B1/500		G1/500
BVH (80°-90°)	22.4	0.3			G1/100
UL (90°-100°)	9.3	0.1		U1/10	
UH (100°-180°)	851.5	12.4		U4/1000	

BUG Rating: B1-U5-G2

Type IV Short





REPORT NUMBER: P271875

CATALOG NUMBER: ISW-AF-1200-LED-E1-SLL-7027-ULG

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5
2.5°	1765.5	1767.2	1791.6	1815.0	1844.6	1840.2	1864.5	1882.8	1899.3	1901.9	1914.1
5°	1657.7	1675.1	1729.9	1776.8	1835.9	1881.9	1931.4	1970.5	1999.2	2026.1	2029.6
7.5°	1506.5	1519.7	1583.0	1656.8	1742.0	1802.9	1877.5	1942.8	1988.8	2032.2	2041.8
10°	1377.1	1389.3	1459.7	1555.2	1630.0	1709.0	1786.3	1839.3	1899.3	1936.7	1954.9
12.5°	1314.6	1329.3	1396.2	1483.1	1559.5	1636.0	1694.2	1740.3	1774.2	1781.1	1786.3
15°	1338.9	1346.6	1420.6	1497.8	1558.6	1597.0	1612.5	1640.3	1637.8	1651.6	1654.3
17.5°	1437.1	1433.5	1511.8	1565.7	1595.2	1590.9	1566.6	1551.7	1525.7	1517.9	1540.4
20°	1605.6	1617.8	1668.2	1701.2	1670.8	1600.4	1533.5	1487.4	1450.9	1438.8	1436.2
22.5°	1802.9	1818.5	1873.2	1855.9	1778.6	1650.0	1528.3	1454.4	1409.4	1396.2	1391.0
25°	2009.7	2020.1	2047.9	1988.8	1880.2	1713.3	1564.8	1461.5	1401.4	1382.3	1379.8
27.5°	2176.4	2186.8	2173.9	2106.1	1948.9	1784.7	1615.2	1492.6	1414.5	1395.3	1386.6
30°	2312.9	2318.1	2274.7	2190.3	2033.9	1863.6	1681.2	1547.4	1456.2	1412.8	1406.7
32.5°	2465.8	2462.3	2378.0	2261.7	2106.1	1934.9	1756.8	1609.1	1496.1	1443.1	1433.5
35°	2633.5	2603.1	2454.5	2332.0	2155.7	1989.7	1825.4	1674.4	1560.4	1490.1	1477.9
37.5°	2782.9	2751.6	2552.6	2387.5	2205.1	2032.2	1879.3	1758.5	1658.6	1594.3	1589.1
40°	2899.3	2861.1	2627.5	2425.0	2229.4	2063.5	1942.8	1864.5	1798.5	1746.3	1746.3
42.5°	2993.2	2951.5	2700.3	2468.5	2251.2	2111.3	2048.8	2021.7	2007.9	1979.2	1989.7
45°	3083.5	3040.9	2760.3	2496.2	2299.8	2204.2	2213.0	2236.4	2278.1	2261.7	2276.3
47.5°	3169.5	3127.9	2828.0	2540.5	2393.6	2371.1	2416.2	2510.1	2591.8	2656.1	2701.2
50°	3313.8	3264.2	2949.8	2670.8	2541.3	2552.6	2683.0	2867.2	3000.1	3059.2	3055.8
52.5°	3587.4	3517.0	3211.2	2914.1	2752.5	2815.1	2968.9	3200.8	3374.7	3420.7	3438.9
55°	3922.0	3866.3	3589.2	3236.4	3119.2	3140.8	3332.0	3594.4	3728.2	3775.9	3791.7
57.5°	4118.3	4103.5	3929.7	3581.4	3467.5	3458.8	3708.2	3922.8	4038.4	4083.5	4069.7
59°	4164.4	4168.8	4069.7	3825.5	3669.1	3650.0	3903.8	4102.6	4199.1	4213.1	4206.0
60°	4160.1	4184.3	4172.2	3959.3	3796.9	3772.5	3986.3	4175.7	4256.5	4278.2	4253.8
62.5°	4070.5	4112.2	4227.9	4205.2	4086.2	3962.0	4062.8	4199.9	4252.1	4231.3	4213.1
65°	3867.2	3922.0	4082.7	4282.5	4167.9	3928.1	3751.7	3767.3	3846.4	3794.2	3819.4
67.5°	3516.2	3578.8	3663.8	4117.4	3950.7	3548.3	3245.1	3096.5	3059.2	3109.7	3189.5
70°	2860.2	2901.1	3116.5	3757.8	3469.3	2916.7	2536.2	2338.1	2272.0	2388.4	2470.1
72.5°	2017.4	2078.3	2362.5	3109.7	2854.2	2336.3	1919.3	1736.9	1670.8	1676.0	1747.2
75°	1227.6	1310.2	1650.8	2458.8	2249.4	1789.9	1462.4	1331.1	1311.1	1299.8	1287.6
77.5°	809.7	841.0	1085.2	1696.9	1517.0	1272.9	1097.4	1151.2	1211.2	1224.2	1239.8
80°	549.1	558.7	703.7	1190.3	999.2	940.1	887.1	1014.0	1127.7	1148.7	1137.3
82.5°	338.0	366.7	490.9	802.8	796.8	768.9	701.1	800.2	875.8	888.9	912.3
85°	117.3	122.5	301.5	709.0	809.7	818.4	577.8	456.1	512.7	503.1	361.5
87.5°	50.3	56.4	93.9	474.3	548.2	453.6	264.1	234.5	180.6	101.7	98.2
90°	8.4	8.4	7.5	10.2	19.9	16.1	15.7	10.5	7.8	7.4	6.8
92.5°	4.0	4.0	4.0	4.4	4.9	5.4	5.9	5.9	5.9	5.9	5.9
95°	4.9	4.9	4.9	5.4	5.9	6.4	6.8	6.8	6.8	6.8	6.8
97.5°	6.8	6.8	6.8	7.4	7.8	7.8	7.8	8.4	8.8	8.8	8.8
100°	7.8	7.8	7.8	8.4	8.8	9.3	9.8	10.8	11.8	16.2	20.6
102.5°	10.8	10.8	10.8	11.8	12.8	15.2	17.7	22.1	26.5	32.9	39.3
105°	20.6	20.8	21.6	24.1	26.5	30.9	35.3	41.2	47.1	54.4	61.8
107.5°	40.2	40.4	41.2	44.6	48.1	52.6	57.0	64.3	71.7	79.1	86.3



REPORT NUMBER: P271875

CATALOG NUMBER: ISW-AF-1200-LED-E1-SLL-7027-ULG

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
110°	64.8	65.1	66.7	69.7	72.7	79.1	85.4	92.7	100.1	106.0	111.9
112.5°	97.2	97.2	97.2	100.6	104.0	111.4	118.8	125.1	131.5	135.9	140.3
115°	137.4	137.2	136.5	140.3	144.3	150.2	156.0	160.4	164.9	167.8	170.8
117.5°	180.6	180.6	180.6	183.1	185.5	189.5	193.3	195.8	198.3	199.7	201.2
120°	220.8	220.4	218.8	220.4	221.8	225.3	228.7	230.7	232.6	235.5	238.5
122.5°	258.2	257.5	255.2	255.7	256.2	259.1	262.0	264.0	266.0	269.0	271.8
125°	292.5	291.7	288.5	289.5	290.5	291.9	293.5	296.4	299.3	301.8	304.3
127.5°	323.9	323.7	322.9	322.9	322.9	324.8	326.8	329.8	332.7	333.2	333.7
130°	356.3	355.9	354.3	354.8	355.3	357.3	359.2	361.2	363.2	364.2	365.1
132.5°	388.7	388.2	386.7	386.2	385.7	389.7	393.5	395.1	396.5	397.1	397.5
135°	421.0	420.5	418.1	418.1	418.1	421.0	424.0	425.4	427.0	428.0	428.9
137.5°	451.5	450.9	448.5	449.5	450.5	450.9	451.5	453.5	455.4	457.3	459.3
140°	479.0	478.3	476.0	477.0	478.0	479.0	480.0	481.0	481.9	484.8	487.8
142.5°	508.4	507.8	505.5	506.5	507.5	507.9	508.4	509.9	511.3	513.3	515.3
145°	539.8	539.1	535.9	534.9	534.0	535.4	536.8	538.4	539.8	540.3	540.8
147.5°	564.3	563.8	561.4	560.9	560.5	561.9	563.3	563.3	563.3	563.9	564.3
150°	584.0	583.4	581.0	581.6	582.0	582.0	582.0	582.0	582.0	582.0	582.0
152.5°	599.7	599.1	596.7	596.7	596.7	597.2	597.7	598.2	598.7	598.7	598.7
155°	617.3	616.6	613.5	613.5	613.5	614.4	615.4	616.9	618.3	617.3	616.3
157.5°	634.0	633.5	631.1	631.1	631.1	631.6	632.0	633.0	634.0	633.6	633.0
160°	650.7	650.1	647.8	647.3	646.8	645.3	643.8	643.4	642.8	642.8	642.8
162.5°	660.5	659.7	656.6	656.6	656.6	654.7	652.7	650.7	648.8	649.7	650.7
165°	668.4	667.8	665.5	664.5	663.5	663.5	663.5	662.1	660.5	660.5	660.5
167.5°	677.2	676.6	674.3	672.8	671.3	672.3	673.3	674.3	675.3	673.8	672.3
170°	685.0	684.5	682.2	680.6	679.2	679.2	679.2	679.7	680.2	679.2	678.2
172.5°	686.0	685.7	684.1	683.1	682.2	681.2	680.2	678.7	677.2	677.2	677.2
175°	687.0	686.7	685.0	684.6	684.1	683.1	682.2	680.2	678.2	677.7	677.2
177.5°	693.9	693.5	692.0	689.4	687.0	686.6	686.0	685.0	684.1	683.1	682.2
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0



REPORT NUMBER: P271875

CATALOG NUMBER: ISW-AF-1200-LED-E1-SLL-7027-ULG

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5
2.5°	1911.4	1900.2	1907.1	1897.6	1881.9	1871.5	1859.3	1843.7	1825.4	1801.1	1776.8
5°	2021.7	2013.1	1991.5	1960.1	1916.6	1880.2	1836.8	1785.5	1742.9	1688.2	1636.9
7.5°	2031.3	2017.4	1977.5	1919.3	1852.3	1784.7	1733.3	1650.0	1596.1	1509.2	1450.9
10°	1944.5	1945.3	1905.3	1850.7	1781.1	1701.2	1627.4	1536.1	1457.1	1368.4	1271.1
12.5°	1816.7	1828.9	1830.7	1782.0	1714.2	1630.0	1547.4	1460.6	1362.4	1267.7	1178.1
15°	1671.7	1706.4	1709.0	1696.9	1661.2	1590.0	1514.5	1436.2	1336.3	1232.9	1132.1
17.5°	1542.2	1575.2	1605.6	1633.4	1635.2	1601.3	1555.2	1488.3	1388.4	1266.8	1148.7
20°	1444.0	1479.7	1531.8	1583.0	1639.5	1656.8	1660.3	1617.8	1510.9	1362.4	1202.5
22.5°	1403.2	1444.9	1497.8	1594.3	1694.2	1756.0	1790.7	1790.7	1678.7	1504.8	1291.1
25°	1394.5	1428.3	1509.2	1629.1	1762.8	1870.6	1936.7	1980.9	1900.2	1688.2	1400.5
27.5°	1400.5	1446.6	1546.5	1669.1	1809.0	1947.1	2055.7	2133.0	2057.4	1813.3	1502.2
30°	1424.9	1493.5	1597.0	1723.8	1868.0	2014.0	2145.2	2243.3	2187.7	1927.1	1598.6
32.5°	1467.5	1550.8	1668.2	1782.9	1926.2	2084.3	2213.9	2343.3	2302.4	2006.2	1650.0
35°	1530.9	1629.1	1736.0	1851.5	1988.8	2146.9	2285.1	2454.5	2439.7	2105.2	1701.2
37.5°	1633.4	1734.2	1832.5	1931.4	2061.8	2215.6	2387.5	2604.0	2591.8	2252.1	1783.8
40°	1814.1	1873.2	1946.2	2009.7	2132.1	2279.0	2463.2	2727.3	2770.7	2378.0	1856.8
42.5°	2038.3	2073.1	2093.9	2111.3	2173.9	2312.0	2517.9	2809.9	2881.0	2471.9	1913.2
45°	2324.2	2313.8	2272.0	2232.1	2225.1	2331.1	2543.1	2870.6	2968.0	2563.1	1970.5
47.5°	2662.1	2639.6	2525.8	2394.5	2321.6	2365.9	2587.4	2960.2	3074.9	2683.0	2041.8
50°	3052.2	2999.2	2813.3	2591.8	2457.1	2464.1	2699.5	3084.4	3215.7	2839.5	2174.7
52.5°	3413.6	3319.0	3097.4	2804.6	2611.7	2635.2	2901.1	3341.5	3504.1	3098.3	2398.0
55°	3732.5	3610.8	3372.0	3051.5	2876.7	2917.5	3223.4	3682.2	3835.9	3406.7	2623.9
57.5°	4003.7	3874.2	3638.8	3356.3	3139.1	3173.0	3510.9	3998.4	4101.8	3683.9	2840.2
59°	4127.0	3999.3	3782.0	3521.4	3318.1	3389.3	3714.3	4155.6	4199.9	3790.8	2922.7
60°	4187.0	4059.2	3868.1	3613.5	3427.7	3521.4	3822.1	4274.8	4236.5	3806.4	2954.1
62.5°	4182.6	4093.1	3967.2	3793.4	3759.5	3915.9	4172.2	4427.7	4261.6	3761.2	2974.1
65°	3839.4	3831.6	3753.4	3773.4	3915.0	4156.5	4313.8	4452.8	4209.5	3581.4	2877.6
67.5°	3202.5	3234.7	3245.1	3367.7	3698.7	4108.8	4246.8	4273.9	3982.7	3196.5	2577.9
70°	2472.8	2401.5	2518.8	2735.1	3212.1	3740.4	3936.7	3842.9	3518.8	2676.9	2105.2
72.5°	1750.8	1771.5	1940.1	2220.8	2706.4	3253.8	3561.4	3049.7	2647.3	2003.6	1492.6
75°	1317.2	1415.4	1497.0	1742.9	2198.2	2787.2	3040.9	2096.6	1724.7	1381.4	976.5
77.5°	1262.5	1254.7	1192.1	1244.2	1584.8	1952.3	2169.5	1308.5	1080.0	903.5	590.0
80°	1166.9	1100.0	986.1	935.8	998.3	1253.8	1377.1	841.0	718.6	631.7	332.7
82.5°	905.3	860.1	740.2	736.8	832.4	890.6	947.0	596.0	540.4	511.8	204.2
85°	574.3	590.0	604.6	737.7	923.5	934.0	736.8	363.2	285.0	401.5	130.3
87.5°	170.3	277.1	336.2	570.9	832.4	835.0	554.3	119.0	106.9	125.1	75.5
90°	6.8	6.8	7.8	8.8	8.8	8.8	8.7	6.8	6.8	6.8	7.8
92.5°	6.4	6.8	6.8	6.8	6.4	5.9	5.9	5.9	5.9	5.9	5.9
95°	6.8	6.8	7.4	7.8	7.4	6.8	6.8	6.8	6.8	6.8	6.8
97.5°	10.3	11.8	10.8	9.8	9.3	8.8	8.4	7.8	7.8	7.8	8.4
100°	24.5	28.5	26.9	25.5	24.1	22.5	20.6	18.7	18.7	18.7	20.6
102.5°	44.2	49.0	47.6	46.2	43.7	41.2	39.7	38.3	37.3	38.3	39.7
105°	66.3	70.7	69.7	68.7	66.3	63.8	61.8	59.8	59.8	59.8	61.8
107.5°	89.8	93.2	92.7	92.3	90.3	88.3	86.9	85.4	84.4	85.4	86.9

REPORT NUMBER: P271875

CATALOG NUMBER: ISW-AF-1200-LED-E1-SLL-7027-ULG

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	114.8	117.8	118.3	118.8	117.8	116.8	115.3	113.8	114.8	113.8	115.3
112.5°	142.8	145.3	146.2	147.2	146.7	146.2	145.3	144.3	144.3	144.3	145.3
115°	173.2	175.7	177.1	178.7	177.1	175.7	174.7	173.7	174.7	173.7	174.7
117.5°	204.2	207.1	209.0	211.0	208.6	206.1	205.2	204.2	205.2	204.2	205.2
120°	239.9	241.5	243.4	245.3	242.9	240.5	239.5	238.5	238.5	238.5	239.5
122.5°	272.8	273.8	275.8	277.8	275.3	272.8	271.8	270.9	271.8	270.9	271.8
125°	305.7	307.2	308.2	309.2	306.7	304.3	304.3	304.3	304.3	304.3	304.3
127.5°	336.1	338.6	339.1	339.6	339.6	339.6	339.1	338.6	340.5	338.6	339.1
130°	367.6	370.0	372.0	374.0	374.0	374.0	373.0	372.0	373.0	372.0	373.0
132.5°	400.5	403.4	405.9	408.3	407.3	406.3	406.3	406.3	407.3	406.3	406.3
135°	431.8	434.8	437.3	439.7	439.2	438.7	440.2	441.7	442.7	441.7	440.2
137.5°	461.8	464.2	465.2	466.2	466.7	467.2	469.6	472.1	473.0	472.1	469.6
140°	489.3	490.7	491.7	492.7	493.7	494.7	497.1	499.5	501.5	499.5	497.1
142.5°	516.3	517.2	520.2	523.2	523.2	523.2	523.6	524.1	526.0	524.1	523.6
145°	543.3	545.7	548.7	551.6	551.1	550.6	549.1	547.7	549.7	547.7	549.1
147.5°	566.8	569.3	571.7	574.2	574.6	575.2	573.7	572.2	574.2	572.2	573.7
150°	584.0	586.0	587.4	588.9	590.4	591.8	593.3	594.8	598.7	594.8	593.3
152.5°	599.2	599.7	601.1	602.7	604.6	606.5	609.1	611.5	616.3	611.5	609.1
155°	615.4	614.4	616.9	619.3	621.8	624.2	625.2	626.2	629.2	626.2	625.2
157.5°	632.6	632.0	634.0	636.0	637.0	638.0	638.0	638.0	642.8	638.0	638.0
160°	644.4	645.8	648.8	651.7	650.2	648.8	648.3	647.8	653.7	647.8	648.3
162.5°	652.7	654.7	656.6	658.5	658.1	657.6	656.6	655.7	661.5	655.7	656.6
165°	660.1	659.5	662.1	664.5	665.9	667.4	666.5	665.5	669.3	665.5	666.5
167.5°	668.9	665.5	668.4	671.3	673.3	675.3	675.3	675.3	681.2	675.3	675.3
170°	675.7	673.3	674.8	676.2	678.7	681.2	682.2	683.1	688.0	683.1	682.2
172.5°	676.7	676.2	677.7	679.2	680.2	681.2	682.2	683.1	688.0	683.1	682.2
175°	677.2	677.2	679.7	682.2	682.6	683.1	682.2	681.2	686.0	681.2	682.2
177.5°	681.6	681.2	683.6	686.0	687.0	688.0	686.6	685.0	689.0	685.0	686.6
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0



REPORT NUMBER: P271875

CATALOG NUMBER: ISW-AF-1200-LED-E1-SLL-7027-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5
2.5°	1751.5	1748.1	1723.8	1683.0	1686.4	1667.3	1643.0	1603.8	1596.1	1574.4	1570.9
5°	1593.4	1552.6	1499.6	1435.3	1411.0	1378.0	1344.1	1319.8	1289.3	1261.6	1298.9
7.5°	1382.3	1322.3	1260.7	1192.9	1153.9	1100.0	1071.3	1015.6	974.8	967.0	934.9
10°	1206.0	1130.3	1060.0	999.2	926.2	875.8	839.3	808.9	781.1	747.2	726.4
12.5°	1088.7	1003.5	928.8	853.2	818.4	776.8	754.1	725.5	685.6	656.8	629.0
15°	1035.7	943.6	861.9	795.9	745.4	706.3	666.5	631.7	588.2	556.1	523.9
17.5°	1028.6	908.8	805.4	731.6	676.9	634.2	581.2	535.2	482.2	446.5	419.7
20°	1036.6	882.8	753.3	656.8	601.2	526.6	477.0	420.6	368.3	321.4	278.9
22.5°	1067.8	868.8	702.0	596.0	513.5	428.3	375.3	303.2	258.9	213.8	197.2
25°	1110.3	860.1	657.6	529.1	424.9	340.5	268.4	208.6	188.6	177.2	171.1
27.5°	1155.6	844.6	608.2	467.5	353.7	251.1	200.7	175.5	167.7	161.7	157.2
30°	1189.4	814.1	547.3	401.5	281.5	214.7	179.0	162.4	157.2	150.3	146.0
32.5°	1204.2	767.2	492.6	338.8	237.2	184.2	156.3	146.9	141.7	135.6	132.9
35°	1201.7	714.2	464.9	314.6	217.2	163.3	137.4	131.2	124.2	118.1	112.1
37.5°	1204.2	665.6	443.1	308.5	208.6	147.7	125.1	120.7	115.5	109.4	104.2
40°	1214.7	638.5	432.6	295.5	201.6	141.7	115.5	111.2	110.3	103.3	99.0
42.5°	1219.0	641.2	427.4	277.1	184.2	139.9	115.5	106.0	106.0	100.8	95.6
45°	1213.8	660.3	431.0	266.8	171.1	131.2	121.6	106.0	103.3	99.0	93.9
47.5°	1229.4	674.2	431.0	265.0	162.4	122.5	115.5	116.4	105.1	99.9	92.1
50°	1293.6	687.2	422.2	262.3	159.9	113.8	109.4	114.7	118.1	101.7	93.0
52.5°	1407.6	703.7	412.7	258.0	156.3	106.9	101.7	107.8	120.7	106.9	93.0
55°	1524.0	733.3	406.7	251.1	151.2	102.6	92.1	103.3	110.3	106.0	92.1
57.5°	1648.2	765.4	400.6	234.5	139.0	98.2	88.7	90.4	99.0	102.6	89.5
59°	1685.6	781.1	395.3	222.4	128.5	94.7	86.0	83.5	88.7	98.2	87.8
60°	1712.5	782.0	389.2	212.0	122.5	93.0	84.4	80.8	82.6	100.8	88.7
62.5°	1715.1	781.1	370.1	190.4	110.3	89.5	81.7	77.3	75.5	84.4	90.4
65°	1607.3	744.5	335.3	179.0	111.2	86.0	77.3	73.8	70.3	72.1	78.2
67.5°	1405.8	650.7	298.9	181.5	117.3	83.5	73.8	70.3	67.7	66.0	68.6
70°	1063.4	540.4	288.4	187.7	122.5	81.7	68.6	65.1	63.4	62.5	62.5
72.5°	736.8	444.8	277.1	192.0	126.8	80.8	63.4	60.0	59.1	58.2	58.2
75°	474.3	323.2	229.3	163.3	115.5	73.8	57.3	53.9	53.0	52.1	53.0
77.5°	280.6	225.9	168.5	114.7	84.4	59.1	49.6	46.9	46.9	46.9	47.8
80°	155.6	133.8	112.1	73.8	60.0	44.3	40.9	38.3	38.3	39.1	40.9
82.5°	93.0	73.8	63.4	46.9	40.9	31.4	30.5	28.7	29.6	30.5	32.2
85°	60.8	46.9	38.3	31.4	27.8	20.0	17.3	18.2	19.1	20.8	21.6
87.5°	33.9	26.1	20.8	18.2	16.5	8.7	7.0	7.0	8.7	10.4	12.1
90°	8.8	8.8	8.8	7.8	6.8	6.8	6.8	7.4	7.8	7.8	7.8
92.5°	5.9	6.4	6.8	6.8	6.8	6.4	5.9	5.9	5.9	5.9	5.9
95°	6.8	7.4	7.8	7.4	6.8	6.8	6.8	6.8	6.8	6.8	6.8
97.5°	8.8	9.3	9.8	10.8	11.8	10.3	8.8	8.8	8.8	8.4	7.8
100°	22.5	24.1	25.5	26.9	28.5	24.5	20.6	16.2	11.8	10.8	9.8
102.5°	41.2	43.7	46.2	47.6	49.0	44.2	39.3	32.9	26.5	22.1	17.7
105°	63.8	66.3	68.7	69.7	70.7	66.3	61.8	54.4	47.1	41.2	35.3
107.5°	88.3	90.3	92.3	92.7	93.2	89.8	86.3	79.1	71.7	64.3	57.0



REPORT NUMBER: P271875
 CATALOG NUMBER: ISW-AF-1200-LED-E1-SLL-7027-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	116.8	117.8	118.8	118.3	117.8	114.8	111.9	106.0	100.1	92.7	85.4	0°
112.5°	146.2	146.7	147.2	146.2	145.3	142.8	140.3	135.9	131.5	125.1	118.8	2.5°
115°	175.7	177.1	178.7	177.1	175.7	173.2	170.8	167.8	164.9	160.4	156.0	5°
117.5°	206.1	208.6	211.0	209.0	207.1	204.2	201.2	199.7	198.3	195.8	193.3	7.5°
120°	240.5	242.9	245.3	243.4	241.5	239.9	238.5	235.5	232.6	230.7	228.7	10°
122.5°	272.8	275.3	277.8	275.8	273.8	272.8	271.8	269.0	266.0	264.0	262.0	12.5°
125°	304.3	306.7	309.2	308.2	307.2	305.7	304.3	301.8	299.3	296.4	293.5	15°
127.5°	339.6	339.6	339.6	339.1	338.6	336.1	333.7	333.2	332.7	329.8	326.8	17.5°
130°	374.0	374.0	374.0	372.0	370.0	367.6	365.1	364.2	363.2	361.2	359.2	20°
132.5°	406.3	407.3	408.3	405.9	403.4	400.5	397.5	397.1	396.5	395.1	393.5	22.5°
135°	438.7	439.2	439.7	437.3	434.8	431.8	428.9	428.0	427.0	425.4	424.0	25°
137.5°	467.2	466.7	466.2	465.2	464.2	461.8	459.3	457.3	455.4	453.5	451.5	27.5°
140°	494.7	493.7	492.7	491.7	490.7	489.3	487.8	484.8	481.9	481.0	480.0	30°
142.5°	523.2	523.2	523.2	520.2	517.2	516.3	515.3	513.3	511.3	509.9	508.4	32.5°
145°	550.6	551.1	551.6	548.7	545.7	543.3	540.8	540.3	539.8	538.4	536.8	35°
147.5°	575.2	574.6	574.2	571.7	569.3	566.8	564.3	563.9	563.3	563.3	563.3	37.5°
150°	591.8	590.4	588.9	587.4	586.0	584.0	582.0	582.0	582.0	582.0	582.0	40°
152.5°	606.5	604.6	602.7	601.1	599.7	599.2	598.7	598.7	598.7	598.2	597.7	42.5°
155°	624.2	621.8	619.3	616.9	614.4	615.4	616.3	617.3	618.3	616.9	615.4	45°
157.5°	638.0	637.0	636.0	634.0	632.0	632.6	633.0	633.6	634.0	633.0	632.0	47.5°
160°	648.8	650.2	651.7	648.8	645.8	644.4	642.8	642.8	642.8	643.4	643.8	50°
162.5°	657.6	658.1	658.5	656.6	654.7	652.7	650.7	649.7	648.8	650.7	652.7	52.5°
165°	667.4	665.9	664.5	662.1	659.5	660.1	660.5	660.5	660.5	662.1	663.5	55°
167.5°	675.3	673.3	671.3	668.4	665.5	668.9	672.3	673.8	675.3	674.3	673.3	57.5°
170°	681.2	678.7	676.2	674.8	673.3	675.7	678.2	679.2	680.2	679.7	679.2	59°
172.5°	681.2	680.2	679.2	677.7	676.2	676.7	677.2	677.2	677.2	678.7	680.2	60°
175°	683.1	682.6	682.2	679.7	677.2	677.2	677.2	677.7	678.2	680.2	682.2	62.5°
177.5°	688.0	687.0	686.0	683.6	681.2	681.6	682.2	683.1	684.1	685.0	686.0	65°
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	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°



NUMBER: P271875
 NUMBER: ISW-AF-1200-LED-E1-SLL-7027-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

160°	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	110°	160°
1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	110°	79.1
1583.0	1557.8	1530.9	1510.9	1519.7	1491.0	1493.5	1485.8	1482.2	1480.5	1462.4	112.5°	111.4
1253.8	1263.3	1223.3	1227.6	1239.8	1210.3	1190.3	1223.3	1219.0	1189.4	1206.0	115°	150.2
903.5	906.2	888.0	847.1	847.1	868.8	876.7	892.3	902.8	939.2	916.6	117.5°	189.5
690.8	666.5	648.1	629.9	619.5	597.7	603.0	622.1	634.2	655.1	671.7	120°	225.3
600.3	573.5	541.3	513.5	498.6	478.8	465.7	461.4	465.7	452.7	453.6	122.5°	259.1
498.6	474.3	438.7	424.0	396.2	380.5	371.9	360.6	351.9	333.6	325.8	125°	291.9
386.6	354.5	318.0	318.0	298.0	285.0	281.5	278.9	273.6	264.1	254.6	127.5°	324.8
257.2	236.3	215.4	205.0	206.8	205.0	199.9	208.6	208.6	212.0	210.2	130°	357.3
187.7	184.2	176.3	170.3	166.8	166.0	166.8	169.4	174.6	179.0	183.3	132.5°	389.7
168.5	166.8	159.9	153.8	152.9	151.2	151.2	153.8	154.7	155.6	154.7	135°	421.0
156.3	152.9	146.9	142.5	140.8	139.9	140.8	138.2	136.5	137.4	136.5	137.5°	450.9
141.7	139.0	132.9	129.4	128.5	128.5	126.0	125.1	123.3	124.2	123.3	140°	479.0
130.3	126.8	120.7	116.4	116.4	115.5	116.4	115.5	114.7	113.8	113.8	142.5°	507.9
109.4	108.7	102.6	100.8	101.7	104.2	104.2	104.2	105.1	104.2	104.2	145°	535.4
101.7	100.8	94.7	90.4	89.5	89.5	89.5	91.2	93.9	94.7	96.5	147.5°	561.9
96.5	95.6	89.5	86.0	84.4	83.5	82.6	82.6	83.5	86.9	89.5	150°	582.0
93.0	91.2	85.2	80.8	79.9	79.1	78.2	78.2	78.2	79.1	81.7	152.5°	597.2
91.2	88.7	81.7	77.3	75.5	74.6	74.6	75.5	74.6	74.6	74.6	155°	614.4
88.7	86.9	79.9	74.6	73.0	73.0	72.1	72.1	72.1	70.3	70.3	157.5°	631.6
87.8	85.2	78.2	73.0	71.2	70.3	69.5	70.3	68.6	67.7	66.9	160°	645.3
86.0	82.6	74.6	70.3	69.5	67.7	66.9	66.9	66.9	65.1	65.1	162.5°	654.7
85.2	80.8	73.0	68.6	66.9	65.1	64.3	64.3	66.0	64.3	64.3	165°	663.5
84.4	78.2	70.3	65.1	64.3	62.5	61.7	62.5	65.1	63.4	62.5	167.5°	672.3
80.8	76.4	68.6	64.3	62.5	60.8	60.0	60.8	62.5	62.5	62.5	170°	679.2
79.1	74.6	66.9	62.5	61.7	60.0	59.1	59.1	61.7	61.7	60.8	172.5°	681.2
76.4	73.0	65.1	60.0	58.2	58.2	57.3	57.3	58.2	58.2	59.1	175°	683.1
73.0	71.2	63.4	57.3	56.4	55.7	55.7	55.7	55.7	57.3	57.3	177.5°	686.6
69.5	68.6	60.8	55.7	53.9	53.9	53.9	53.9	53.9	54.8	55.7	180°	687.0
64.3	64.3	57.3	52.1	51.2	50.3	50.3	50.3	50.3	51.2	52.1		
59.1	60.0	53.0	47.8	46.9	46.9	46.9	46.9	47.8	47.8	48.7		
53.9	54.8	47.8	42.6	42.6	42.6	42.6	42.6	42.6	42.6	44.3		
48.7	48.7	40.9	35.7	36.5	37.4	38.3	37.4	37.4	38.3	40.9		
41.7	40.9	33.9	29.6	29.6	31.4	32.2	31.4	32.2	32.2	35.7		
33.0	33.0	26.1	21.6	21.6	25.2	25.2	25.2	26.1	26.9	29.6		
25.2	24.3	18.2	14.7	14.7	17.3	18.2	19.1	20.0	20.8	22.5		
14.7	14.7	9.5	6.1	7.0	7.8	10.4	10.4	10.4	12.1	14.7		
7.4	7.7	5.9	4.9	4.9	4.9	5.9	6.8	7.4	7.8	7.8		
5.4	4.9	4.4	4.0	4.0	4.0	4.4	4.9	5.4	5.9	5.9		
6.4	5.9	5.4	4.9	4.9	4.9	5.4	5.9	6.4	6.8	6.8		
7.8	7.8	7.4	6.8	6.8	6.8	7.4	7.8	7.8	7.8	8.4		
9.3	8.8	8.4	7.8	7.8	7.8	8.4	8.8	9.3	9.8	10.8		
15.2	12.8	11.8	10.8	10.8	10.8	11.8	12.8	15.2	17.7	22.1		
30.9	26.5	24.1	21.6	20.6	21.6	24.1	26.5	30.9	35.3	41.2		
52.6	48.1	44.6	41.2	40.2	41.2	44.6	48.1	52.6	57.0	64.3		

271875
 ISW-AF-1200-LED-E1-SLL-7027-ULG

REPORT NUMBER: P271875
 CATALOG NUMBER: ISW-AF-1:

TION (continued):

CANDELA DISTRIBUTION (con

165°	170°	175°	180°	185°	190°	195°	200°	205°	210°		215°	220°
72.7	69.7	66.7	64.8	66.7	69.7	72.7	79.1	85.4	92.7	0°	1705.5	1705.5
104.0	100.6	97.2	97.2	97.2	100.6	104.0	111.4	118.8	125.1	2.5°	1477.9	1477.0
144.3	140.3	136.5	137.4	136.5	140.3	144.3	150.2	156.0	160.4	5°	1212.9	1205.1
185.5	183.1	180.6	180.6	180.6	183.1	185.5	189.5	193.3	195.8	7.5°	940.1	968.7
221.8	220.4	218.8	220.8	218.8	220.4	221.8	225.3	228.7	230.7	10°	677.7	697.6
256.2	255.7	255.2	258.2	255.2	255.7	256.2	259.1	262.0	264.0	12.5°	471.8	482.2
290.5	289.5	288.5	292.5	288.5	289.5	290.5	291.9	293.5	296.4	15°	325.0	345.8
322.9	322.9	322.9	323.9	322.9	322.9	322.9	324.8	326.8	329.8	17.5°	252.9	255.5
355.3	354.8	354.3	356.3	354.3	354.8	355.3	357.3	359.2	361.2	20°	208.6	210.2
385.7	386.2	386.7	388.7	386.7	386.2	385.7	389.7	393.5	395.1	22.5°	185.1	188.6
418.1	418.1	418.1	421.0	418.1	418.1	418.1	421.0	424.0	425.4	25°	155.6	159.0
450.5	449.5	448.5	451.5	448.5	449.5	450.5	450.9	451.5	453.5	27.5°	137.4	140.8
478.0	477.0	476.0	479.0	476.0	477.0	478.0	479.0	480.0	481.0	30°	126.0	127.6
507.5	506.5	505.5	508.4	505.5	506.5	507.5	507.9	508.4	509.9	32.5°	114.7	114.7
534.0	534.9	535.9	539.8	535.9	534.9	534.0	535.4	536.8	538.4	35°	105.1	106.0
560.5	560.9	561.4	564.3	561.4	560.9	560.5	561.9	563.3	563.3	37.5°	98.2	99.9
582.0	581.6	581.0	584.0	581.0	581.6	582.0	582.0	582.0	582.0	40°	92.1	93.0
596.7	596.7	596.7	599.7	596.7	596.7	596.7	597.2	597.7	598.2	42.5°	83.5	85.2
613.5	613.5	613.5	617.3	613.5	613.5	613.5	614.4	615.4	616.9	45°	75.5	76.4
631.1	631.1	631.1	634.0	631.1	631.1	631.1	631.6	632.0	633.0	47.5°	70.3	70.3
646.8	647.3	647.8	650.7	647.8	647.3	646.8	645.3	643.8	643.4	50°	66.9	67.7
656.6	656.6	656.6	660.5	656.6	656.6	656.6	654.7	652.7	650.7	52.5°	65.1	66.0
663.5	664.5	665.5	668.4	665.5	664.5	663.5	663.5	663.5	662.1	55°	64.3	66.0
671.3	672.8	674.3	677.2	674.3	672.8	671.3	672.3	673.3	674.3	57.5°	64.3	65.1
679.2	680.6	682.2	685.0	682.2	680.6	679.2	679.2	679.2	679.7	59°	63.4	64.3
682.2	683.1	684.1	686.0	684.1	683.1	682.2	681.2	680.2	678.7	60°	63.4	65.1
684.1	684.6	685.0	687.0	685.0	684.6	684.1	683.1	682.2	680.2	62.5°	60.8	62.5
687.0	689.4	692.0	693.9	692.0	689.4	687.0	686.6	686.0	685.0	65°	59.1	60.8
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	67.5°	56.4	59.1
										70°	53.9	56.4
										72.5°	50.3	53.9
										75°	46.9	49.6
										77.5°	42.6	45.2
										80°	37.4	38.3
										82.5°	31.4	31.4
										85°	23.4	20.8
										87.5°	13.0	13.9
										90°	7.8	7.4
										92.5°	5.9	5.9
										95°	6.8	6.8
										97.5°	8.8	8.8
										100°	11.8	16.2
										102.5°	26.5	32.9
										105°	47.1	54.4
										107.5°	71.7	79.1



REPORT NUMBER: P271875

CATALOG NUMBER: ISW-AF-1200-LED-E:

200-LED-E1-SLL-7027-ULG

<u>tinued):</u>										<u>CANDELA DISTRIBUTION (continued):</u>		
225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	110°	100.1	106.0	111.9
1458.8	1458.8	1484.9	1487.4	1457.1	1464.9	1479.7	1462.4	1481.3	112.5°	131.5	135.9	140.3
1224.2	1213.8	1214.7	1207.7	1219.9	1206.0	1220.8	1215.5	1211.2	115°	164.9	167.8	170.8
950.5	968.7	955.8	930.6	950.5	934.9	905.3	908.0	874.9	117.5°	198.3	199.7	201.2
714.2	701.1	694.2	682.0	649.9	656.0	623.0	628.2	639.4	120°	232.6	235.5	238.5
492.6	483.1	494.3	486.5	473.6	476.1	483.1	490.0	508.4	122.5°	266.0	269.0	271.8
345.8	341.4	338.8	344.1	358.9	366.7	378.0	398.8	409.2	125°	299.3	301.8	304.3
259.8	260.7	258.0	265.9	278.0	284.1	286.6	288.4	300.7	127.5°	332.7	333.2	333.7
214.7	218.1	217.2	219.8	216.3	212.9	215.4	210.2	205.9	130°	363.2	364.2	365.1
187.7	188.6	184.2	183.3	178.1	173.7	170.3	170.3	168.5	132.5°	396.5	397.1	397.5
159.0	159.9	155.6	155.6	154.7	157.2	155.6	152.0	151.2	135°	427.0	428.0	428.9
142.5	140.8	138.2	138.2	136.5	136.5	137.4	138.2	137.4	137.5°	455.4	457.3	459.3
127.6	126.0	125.1	126.0	125.1	126.0	126.8	126.0	126.8	140°	481.9	484.8	487.8
117.3	115.5	115.5	116.4	115.5	116.4	116.4	116.4	115.5	142.5°	511.3	513.3	515.3
108.7	106.9	106.9	106.9	106.0	104.2	102.6	99.9	97.3	145°	539.8	540.3	540.8
101.7	100.8	99.0	98.2	95.6	90.4	88.7	88.7	88.7	147.5°	563.3	563.9	564.3
95.6	93.9	93.0	89.5	86.0	84.4	84.4	84.4	84.4	150°	582.0	582.0	582.0
87.8	85.2	83.5	82.6	81.7	81.7	80.8	80.8	80.8	152.5°	598.7	598.7	598.7
78.2	77.3	77.3	78.2	78.2	78.2	78.2	77.3	78.2	155°	618.3	617.3	616.3
72.1	72.1	73.0	73.8	74.6	75.5	76.4	75.5	76.4	157.5°	634.0	633.6	633.0
69.5	69.5	69.5	71.2	72.1	73.0	74.6	74.6	74.6	160°	642.8	642.8	642.8
67.7	67.7	68.6	69.5	70.3	71.2	72.1	73.0	73.8	162.5°	648.8	649.7	650.7
66.9	67.7	66.9	67.7	68.6	70.3	71.2	71.2	72.1	165°	660.5	660.5	660.5
66.9	66.9	66.9	66.9	68.6	69.5	68.6	69.5	70.3	167.5°	675.3	673.8	672.3
66.9	66.9	66.0	66.9	67.7	68.6	67.7	67.7	69.5	170°	680.2	679.2	678.2
66.0	66.9	66.0	66.0	66.9	67.7	66.9	67.7	68.6	172.5°	677.2	677.2	677.2
64.3	65.1	64.3	65.1	65.1	66.0	66.0	66.0	66.9	175°	678.2	677.7	677.2
62.5	62.5	62.5	63.4	63.4	64.3	64.3	65.1	64.3	177.5°	684.1	683.1	682.2
60.8	60.8	60.8	61.7	61.7	62.5	63.4	62.5	62.5	180°	687.0	687.0	687.0
59.1	58.2	57.3	58.2	59.1	59.1	60.0	59.1	60.0				
56.4	55.7	54.8	54.8	55.7	55.7	56.4	55.7	55.7				
52.1	52.1	50.3	50.3	50.3	50.3	51.2	50.3	49.6				
46.9	46.9	45.2	45.2	45.2	45.2	44.3	44.3	44.3				
39.1	40.0	40.0	39.1	39.1	38.3	38.3	37.4	36.5				
29.6	31.4	32.2	32.2	32.2	32.2	32.2	30.5	28.7				
20.8	23.4	26.1	26.1	25.2	25.2	25.2	22.5	20.0				
13.0	15.6	16.5	18.2	15.6	14.7	14.7	13.0	12.1				
6.8	6.8	8.6	8.7	11.5	11.5	12.3	9.6	7.7				
5.9	6.4	6.8	6.8	6.8	6.4	5.9	5.9	5.9				
6.8	6.8	6.8	7.4	7.8	7.4	6.8	6.8	6.8				
8.8	10.3	11.8	10.8	9.8	9.3	8.8	8.4	7.8				
20.6	24.5	28.5	26.9	25.5	24.1	22.5	20.6	18.7				
39.3	44.2	49.0	47.6	46.2	43.7	41.2	39.7	38.3				
61.8	66.3	70.7	69.7	68.7	66.3	63.8	61.8	59.8				
86.3	89.8	93.2	92.7	92.3	90.3	88.3	86.9	85.4				



REPORT NUMBER: P271875

CATALOG NUMBER: ISW-AF-1200-LED-E1-SLL-7027

1-SLL-7027-ULG

CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°		270°	275°	280°	285°
114.8	117.8	118.3	118.8	117.8	116.8	115.3	113.8	0°	1705.5	1705.5	1705.5	1705.5
142.8	145.3	146.2	147.2	146.7	146.2	145.3	144.3	2.5°	1464.9	1497.0	1501.3	1505.6
173.2	175.7	177.1	178.7	177.1	175.7	174.7	173.7	5°	1204.2	1236.3	1218.1	1226.0
204.2	207.1	209.0	211.0	208.6	206.1	205.2	204.2	7.5°	879.4	858.4	885.4	901.9
239.9	241.5	243.4	245.3	242.9	240.5	239.5	238.5	10°	642.1	666.5	676.9	696.0
272.8	273.8	275.8	277.8	275.3	272.8	271.8	270.9	12.5°	532.7	548.2	567.4	597.7
305.7	307.2	308.2	309.2	306.7	304.3	304.3	304.3	15°	431.8	443.1	467.5	497.0
336.1	338.6	339.1	339.6	339.6	339.6	339.1	338.6	17.5°	314.6	331.0	346.7	371.0
367.6	370.0	372.0	374.0	374.0	374.0	373.0	372.0	20°	211.1	218.1	237.2	248.5
400.5	403.4	405.9	408.3	407.3	406.3	406.3	406.3	22.5°	169.4	172.0	175.5	185.1
431.8	434.8	437.3	439.7	439.2	438.7	440.2	441.7	25°	152.0	153.8	156.3	159.9
461.8	464.2	465.2	466.2	466.7	467.2	469.6	472.1	27.5°	138.2	139.0	141.7	143.4
489.3	490.7	491.7	492.7	493.7	494.7	497.1	499.5	30°	126.0	125.1	126.0	128.5
516.3	517.2	520.2	523.2	523.2	523.2	523.6	524.1	32.5°	113.0	113.0	114.7	114.7
543.3	545.7	548.7	551.6	551.1	550.6	549.1	547.7	35°	97.3	96.5	98.2	100.8
566.8	569.3	571.7	574.2	574.6	575.2	573.7	572.2	37.5°	89.5	90.4	92.1	93.9
584.0	586.0	587.4	588.9	590.4	591.8	593.3	594.8	40°	85.2	86.0	87.8	89.5
599.2	599.7	601.1	602.7	604.6	606.5	609.1	611.5	42.5°	80.8	82.6	84.4	86.9
615.4	614.4	616.9	619.3	621.8	624.2	625.2	626.2	45°	78.2	79.9	82.6	85.2
632.6	632.0	634.0	636.0	637.0	638.0	638.0	638.0	47.5°	77.3	79.1	81.7	85.2
644.4	645.8	648.8	651.7	650.2	648.8	648.3	647.8	50°	75.5	78.2	80.8	84.4
652.7	654.7	656.6	658.5	658.1	657.6	656.6	655.7	52.5°	75.5	77.3	79.9	84.4
660.1	659.5	662.1	664.5	665.9	667.4	666.5	665.5	55°	73.0	75.5	78.2	82.6
668.9	665.5	668.4	671.3	673.3	675.3	675.3	675.3	57.5°	71.2	73.0	76.4	81.7
675.7	673.3	674.8	676.2	678.7	681.2	682.2	683.1	59°	70.3	72.1	75.5	80.8
676.7	676.2	677.7	679.2	680.2	681.2	682.2	683.1	60°	68.6	71.2	74.6	79.9
677.2	677.2	679.7	682.2	682.6	683.1	682.2	681.2	62.5°	66.9	69.5	73.0	78.2
681.6	681.2	683.6	686.0	687.0	688.0	686.6	685.0	65°	64.3	67.7	71.2	74.6
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	67.5°	62.5	64.3	67.7	71.2
								70°	59.1	60.8	63.4	66.0
								72.5°	54.8	55.7	57.3	60.0
								75°	48.7	49.6	50.3	53.0
								77.5°	42.6	42.6	43.5	46.9
								80°	35.7	35.7	36.5	38.3
								82.5°	26.9	26.9	28.7	31.4
								85°	19.1	18.2	20.8	22.5
								87.5°	11.3	10.4	11.3	11.3
								90°	7.7	9.5	9.6	10.6
								92.5°	5.9	5.9	5.9	5.9
								95°	6.8	6.8	6.8	6.8
								97.5°	7.8	7.8	8.4	8.8
								100°	18.7	18.7	20.6	22.5
								102.5°	37.3	38.3	39.7	41.2
								105°	59.8	59.8	61.8	63.8
								107.5°	84.4	85.4	86.9	88.3

REPORT NUMBER: P271875

CATALOG NUMBER: ISW-AF-1200-LED-E1-SLL-7027-ULG

7-ULG

CANDELA DISTRIBUTION (continued):

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	110°	114.8	113.8	115.3	116.8	117.8
1523.1	1514.5	1521.4	1548.3	1557.8	1570.0	1610.8	112.5°	144.3	144.3	145.3	146.2	146.7
1245.1	1256.4	1245.1	1299.8	1302.5	1338.9	1353.7	115°	174.7	173.7	174.7	175.7	177.1
914.9	929.7	954.0	990.5	1000.9	1053.0	1097.4	117.5°	205.2	204.2	205.2	206.1	208.6
714.2	733.3	767.2	789.8	812.3	842.8	878.5	120°	238.5	238.5	239.5	240.5	242.9
634.2	654.2	683.8	712.4	744.5	768.1	797.5	122.5°	271.8	270.9	271.8	272.8	275.3
530.0	561.4	590.0	627.3	654.2	696.8	731.6	125°	304.3	304.3	304.3	304.3	306.7
404.9	448.3	477.0	522.2	563.0	600.3	647.3	127.5°	340.5	338.6	339.1	339.6	339.6
281.5	315.3	351.9	400.6	453.6	504.8	567.4	130°	373.0	372.0	373.0	374.0	374.0
193.8	212.0	239.8	290.2	344.9	418.8	486.5	132.5°	407.3	406.3	406.3	406.3	407.3
165.1	172.0	182.4	206.8	252.9	333.6	408.4	135°	442.7	441.7	440.2	438.7	439.2
146.9	152.0	159.0	171.1	195.5	251.1	333.6	137.5°	473.0	472.1	469.6	467.2	466.7
134.7	140.8	147.7	156.3	169.4	207.7	269.3	140°	501.5	499.5	497.1	494.7	493.7
118.1	122.5	128.5	138.2	147.7	178.1	238.1	142.5°	526.0	524.1	523.6	523.2	523.2
104.2	109.4	117.3	124.2	133.8	158.1	216.3	145°	549.7	547.7	549.1	550.6	551.1
97.3	102.6	109.4	115.5	122.5	142.5	200.7	147.5°	574.2	572.2	573.7	575.2	574.6
93.0	98.2	105.1	110.3	114.7	137.4	194.7	150°	598.7	594.8	593.3	591.8	590.4
90.4	96.5	102.6	106.0	114.7	139.9	179.8	152.5°	616.3	611.5	609.1	606.5	604.6
89.5	95.6	102.6	108.7	126.0	132.1	170.3	155°	629.2	626.2	625.2	624.2	621.8
90.4	95.6	104.2	121.6	122.5	125.1	159.9	157.5°	642.8	638.0	638.0	638.0	637.0
90.4	98.2	116.4	126.8	116.4	118.1	150.3	160°	653.7	647.8	648.3	648.8	650.2
91.2	101.7	120.7	118.1	113.0	110.3	139.9	162.5°	661.5	655.7	656.6	657.6	658.1
91.2	99.9	115.5	111.2	104.2	105.1	127.6	165°	669.3	665.5	666.5	667.4	665.9
88.7	99.9	111.2	100.8	95.6	99.9	117.3	167.5°	681.2	675.3	675.3	675.3	673.3
86.9	102.6	99.0	93.0	93.0	97.3	112.1	170°	688.0	683.1	682.2	681.2	678.7
86.0	105.1	93.9	90.4	90.4	96.5	109.4	172.5°	688.0	683.1	682.2	681.2	680.2
83.5	98.2	86.0	84.4	86.9	91.2	106.0	175°	686.0	681.2	682.2	683.1	682.6
78.2	81.7	79.1	79.1	82.6	87.8	104.2	177.5°	689.0	685.0	686.6	688.0	687.0
72.1	73.8	73.8	74.6	78.2	82.6	106.0	180°	687.0	687.0	687.0	687.0	687.0
66.9	66.9	68.6	69.5	72.1	78.2	101.7						
60.8	61.7	61.7	63.4	65.1	71.2	98.2						
53.9	53.9	55.7	55.7	58.2	64.3	87.8						
46.9	46.9	46.9	47.8	49.6	55.7	72.1						
39.1	39.1	39.1	40.0	40.9	46.0	54.8						
31.4	30.5	29.6	29.6	31.4	35.7	42.6						
21.6	21.6	20.8	20.8	20.8	23.4	28.7						
12.1	10.4	11.3	12.1	11.3	13.0	15.6						
9.7	10.6	10.5	10.3	10.3	10.3	12.6						
6.4	6.8	6.8	6.8	6.4	5.9	5.9						
7.4	7.8	7.4	6.8	6.8	6.8	6.8						
9.3	9.8	10.8	11.8	10.3	8.8	8.8						
24.1	25.5	26.9	28.5	24.5	20.6	16.2						
43.7	46.2	47.6	49.0	44.2	39.3	32.9						
66.3	68.7	69.7	70.7	66.3	61.8	54.4						
90.3	92.3	92.7	93.2	89.8	86.3	79.1						



REPORT NUMBER: P271875

CATALOG NUMBER: ISW-AF-1200-LED-E1-SLL-7027-ULG

CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°		325°	330°	335°	340°	345°	350°
118.8	118.3	117.8	114.8	111.9	106.0	0°	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5
147.2	146.2	145.3	142.8	140.3	135.9	2.5°	1605.6	1628.2	1663.8	1670.8	1699.4	1719.4
178.7	177.1	175.7	173.2	170.8	167.8	5°	1360.7	1414.5	1433.5	1471.0	1536.1	1569.1
211.0	209.0	207.1	204.2	201.2	199.7	7.5°	1122.5	1163.3	1209.5	1269.3	1317.2	1373.7
245.3	243.4	241.5	239.9	238.5	235.5	10°	923.5	981.8	1041.8	1090.5	1157.3	1225.1
277.8	275.8	273.8	272.8	271.8	269.0	12.5°	820.2	852.3	911.4	980.1	1063.4	1139.1
309.2	308.2	307.2	305.7	304.3	301.8	15°	766.3	804.5	868.0	941.0	1029.5	1123.4
339.6	339.1	338.6	336.1	333.7	333.2	17.5°	699.4	760.2	832.4	936.7	1051.3	1181.6
374.0	372.0	370.0	367.6	365.1	364.2	20°	633.3	707.2	802.0	939.2	1098.2	1267.7
408.3	405.9	403.4	400.5	397.5	397.1	22.5°	575.2	662.9	782.9	954.9	1158.2	1384.1
439.7	437.3	434.8	431.8	428.9	428.0	25°	506.6	623.9	768.1	987.0	1250.4	1540.4
466.2	465.2	464.2	461.8	459.3	457.3	27.5°	451.8	586.4	746.3	1014.8	1334.5	1690.8
492.7	491.7	490.7	489.3	487.8	484.8	30°	391.0	543.0	715.9	1024.3	1437.1	1814.1
523.2	520.2	517.2	516.3	515.3	513.3	32.5°	342.3	502.2	681.2	1015.6	1483.1	1900.2
551.6	548.7	545.7	543.3	540.8	540.3	35°	318.9	472.7	651.6	985.4	1521.4	1993.1
574.2	571.7	569.3	566.8	564.3	563.9	37.5°	303.2	440.5	623.0	934.9	1564.8	2085.2
588.9	587.4	586.0	584.0	582.0	582.0	40°	283.2	415.3	599.5	898.3	1598.6	2161.7
602.7	601.1	599.7	599.2	598.7	598.7	42.5°	265.0	392.6	581.2	866.2	1607.3	2230.3
619.3	616.9	614.4	615.4	616.3	617.3	45°	249.4	378.8	567.4	868.0	1613.4	2325.9
636.0	634.0	632.0	632.6	633.0	633.6	47.5°	237.2	365.8	562.1	897.6	1677.8	2458.8
651.7	648.8	645.8	644.4	642.8	642.8	50°	225.9	354.5	553.4	954.9	1781.1	2638.7
658.5	656.6	654.7	652.7	650.7	649.7	52.5°	212.9	338.8	542.1	1014.0	1894.1	2879.3
664.5	662.1	659.5	660.1	660.5	660.5	55°	195.5	318.0	530.0	1063.4	2047.9	3172.2
671.3	668.4	665.5	668.9	672.3	673.8	57.5°	168.5	293.7	522.2	1088.7	2142.5	3340.7
676.2	674.8	673.3	675.7	678.2	679.2	59°	154.7	270.2	517.9	1076.5	2167.8	3369.5
679.2	677.7	676.2	676.7	677.2	677.2	60°	146.9	256.3	510.9	1061.8	2174.7	3351.1
682.2	679.7	677.2	677.2	677.2	677.7	62.5°	136.5	223.3	482.2	987.9	2077.4	3130.4
686.0	683.6	681.2	681.6	682.2	683.1	65°	139.0	211.1	417.0	841.0	1854.1	2699.5
687.0	687.0	687.0	687.0	687.0	687.0	67.5°	142.5	205.9	360.6	679.5	1477.9	2233.7
						70°	139.9	203.3	327.5	540.4	1106.9	1672.6
						72.5°	136.5	192.0	284.1	434.4	702.0	1171.2
						75°	120.7	161.7	223.3	298.0	443.1	853.2
						77.5°	94.7	124.2	158.1	185.1	225.0	602.1
						80°	69.5	90.4	103.3	111.2	125.1	411.0
						82.5°	49.6	60.8	66.0	70.3	83.5	307.6
						85°	37.4	42.6	46.0	46.0	56.4	217.2
						87.5°	20.8	21.6	21.6	23.4	27.8	59.1
						90°	13.9	13.9	13.0	13.5	11.2	9.3
						92.5°	5.9	5.9	5.9	5.4	4.9	4.4
						95°	6.8	6.8	6.8	6.4	5.9	5.4
						97.5°	8.8	8.4	7.8	7.8	7.8	7.4
						100°	11.8	10.8	9.8	9.3	8.8	8.4
						102.5°	26.5	22.1	17.7	15.2	12.8	11.8
						105°	47.1	41.2	35.3	30.9	26.5	24.1
						107.5°	71.7	64.3	57.0	52.6	48.1	44.6



REPORT NUMBER: P271875

CATALOG NUMBER: ISW-AF-1200-LED-E1-SLL-7027-ULG

CANDELA DISTRIBUTION (continued):

355°	359°	360°		325°	330°	335°	340°	345°	350°	355°
1705.5	1705.5	1705.5	110°	100.1	92.7	85.4	79.1	72.7	69.7	66.7
1742.0	1755.1	1765.5	112.5°	131.5	125.1	118.8	111.4	104.0	100.6	97.2
1619.6	1651.6	1657.7	115°	164.9	160.4	156.0	150.2	144.3	140.3	136.5
1436.2	1488.3	1506.5	117.5°	198.3	195.8	193.3	189.5	185.5	183.1	180.6
1301.6	1358.0	1377.1	120°	232.6	230.7	228.7	225.3	221.8	220.4	218.8
1227.6	1293.6	1314.6	122.5°	266.0	264.0	262.0	259.1	256.2	255.7	255.2
1229.4	1308.5	1338.9	125°	299.3	296.4	293.5	291.9	290.5	289.5	288.5
1309.4	1399.6	1437.1	127.5°	332.7	329.8	326.8	324.8	322.9	322.9	322.9
1446.6	1577.9	1605.6	130°	363.2	361.2	359.2	357.3	355.3	354.8	354.3
1632.6	1761.1	1802.9	132.5°	396.5	395.1	393.5	389.7	385.7	386.2	386.7
1807.2	1977.5	2009.7	135°	427.0	425.4	424.0	421.0	418.1	418.1	418.1
1979.2	2147.8	2176.4	137.5°	455.4	453.5	451.5	450.9	450.5	449.5	448.5
2112.2	2288.5	2312.9	140°	481.9	481.0	480.0	479.0	478.0	477.0	476.0
2239.8	2438.9	2465.8	142.5°	511.3	509.9	508.4	507.9	507.5	506.5	505.5
2382.3	2602.2	2633.5	145°	539.8	538.4	536.8	535.4	534.0	534.9	535.9
2510.9	2763.0	2782.9	147.5°	563.3	563.3	563.3	561.9	560.5	560.9	561.4
2653.4	2894.1	2899.3	150°	582.0	582.0	582.0	582.0	582.0	581.6	581.0
2769.8	2991.4	2993.2	152.5°	598.7	598.2	597.7	597.2	596.7	596.7	596.7
2882.8	3082.6	3083.5	155°	618.3	616.9	615.4	614.4	613.5	613.5	613.5
3001.0	3182.5	3169.5	157.5°	634.0	633.0	632.0	631.6	631.1	631.1	631.1
3187.7	3300.7	3313.8	160°	642.8	643.4	643.8	645.3	646.8	647.3	647.8
3471.9	3572.6	3587.4	162.5°	648.8	650.7	652.7	654.7	656.6	656.6	656.6
3802.1	3941.9	3922.0	165°	660.5	662.1	663.5	663.5	663.5	664.5	665.5
3941.9	4101.8	4118.3	167.5°	675.3	674.3	673.3	672.3	671.3	672.8	674.3
3918.5	4136.5	4164.4	170°	680.2	679.7	679.2	679.2	679.2	680.6	682.2
3881.1	4126.2	4160.1	172.5°	677.2	678.7	680.2	681.2	682.2	683.1	684.1
3669.1	4017.5	4070.5	175°	678.2	680.2	682.2	683.1	684.1	684.6	685.0
3312.9	3792.6	3867.2	177.5°	684.1	685.0	686.0	686.6	687.0	689.4	692.0
2855.0	3456.3	3516.2	180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0
2227.7	2809.0	2860.2								
1480.5	1928.8	2017.4								
941.0	1244.2	1227.6								
694.2	808.9	809.7								
503.9	555.2	549.1								
390.1	338.8	338.0								
136.5	119.9	117.3								
59.1	49.6	50.3								
7.5	7.5	8.4								
4.0	4.0	4.0								
4.9	4.9	4.9								
6.8	6.8	6.8								
7.8	7.8	7.8								
10.8	10.8	10.8								
21.6	20.8	20.6								
41.2	40.4	40.2								



359°	360°
65.1	64.8
97.2	97.2
137.2	137.4
180.6	180.6
220.4	220.8
257.5	258.2
291.7	292.5
323.7	323.9
355.9	356.3
388.2	388.7
420.5	421.0
450.9	451.5
478.3	479.0
507.8	508.4
539.1	539.8
563.8	564.3
583.4	584.0
599.1	599.7
616.6	617.3
633.5	634.0
650.1	650.7
659.7	660.5
667.8	668.4
676.6	677.2
684.5	685.0
685.7	686.0
686.7	687.0
693.5	693.9
687.0	687.0

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