

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: P271862

Luminaire Tested: **ISW-AF-1000-LED-E1-SL2-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35945)-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-1000-LED-E1-SL2-7027-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL, 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: 6787.5 lumens
Efficiency: N/A
Efficacy: 95.2 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 - G1

Input Watts (W): 71.3
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

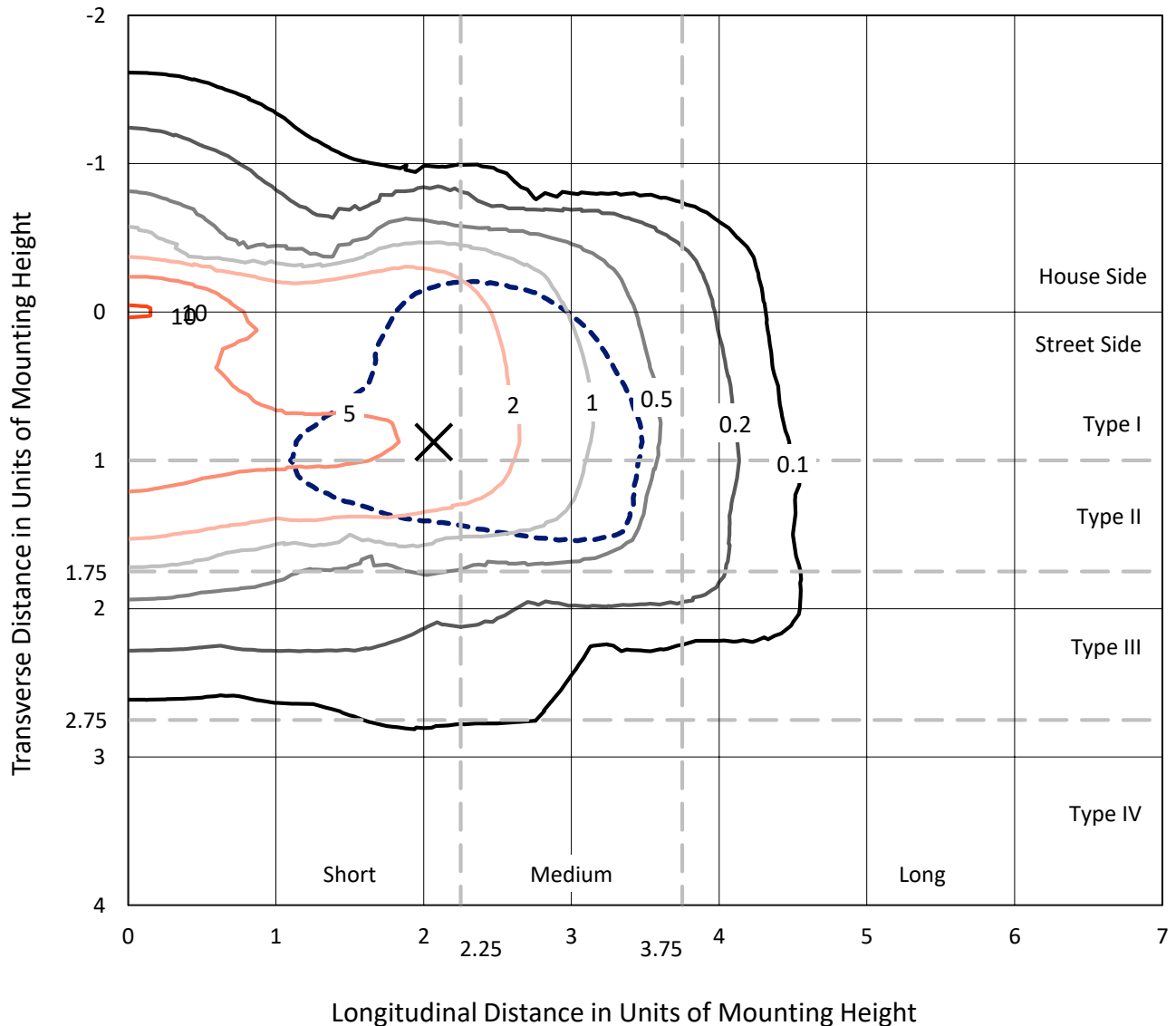


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Iso-Footcandle Lines of Horizontal Illumination

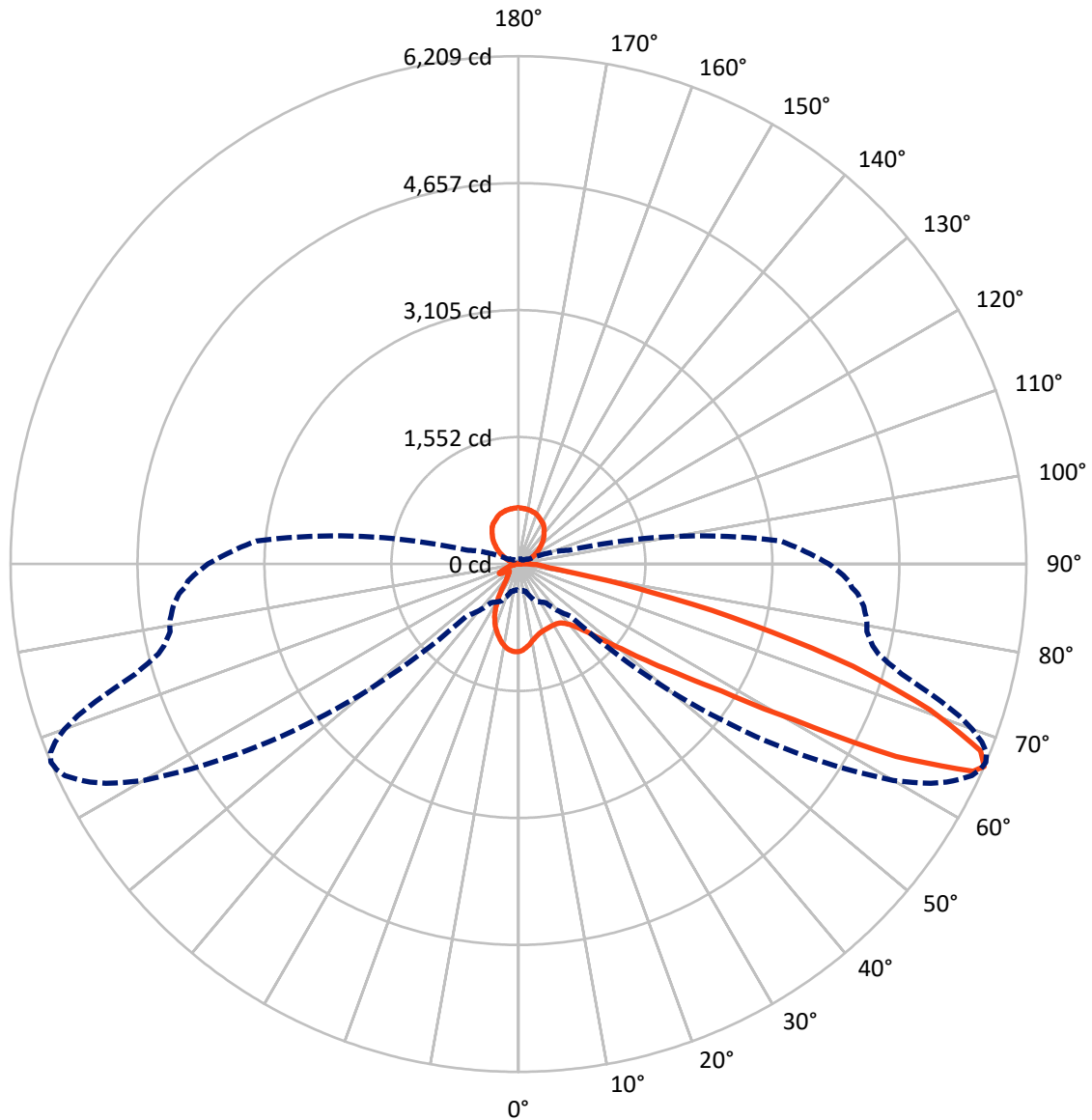
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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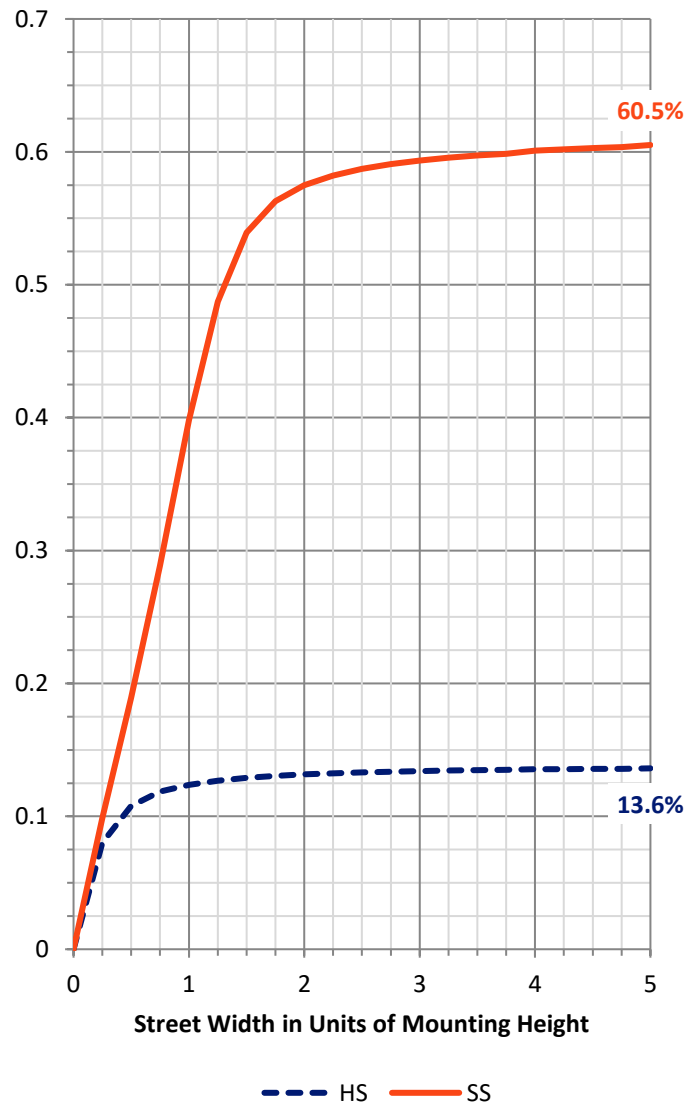
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	939.1	851.9	1791.0
	% Fixture	13.8	12.6	26.4
Street Side	Lumens	4143.5	853.0	4996.5
	% Fixture	61.0	12.6	73.6
Total	Lumens	5082.6	1704.8	6787.5
	% Fixture	74.9	25.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.8	1.4
10°-20°	220.9	3.3
20°-30°	302.8	4.5
30°-40°	432.6	6.4
40°-50°	701.5	10.3
50°-60°	1111.5	16.4
60°-70°	1408.5	20.8
70°-80°	700.2	10.3
80°-90°	111.9	1.6
90°-100°	10.9	0.2
100°-110°	56.3	0.8
110°-120°	163.0	2.4
120°-130°	268.1	3.9
130°-140°	330.6	4.9
140°-150°	338.2	5.0
150°-160°	284.9	4.2
160°-170°	187.6	2.8
170°-180°	65.0	1.0
0°-90°	5082.6	74.9
0°-180°	6787.5	100.0



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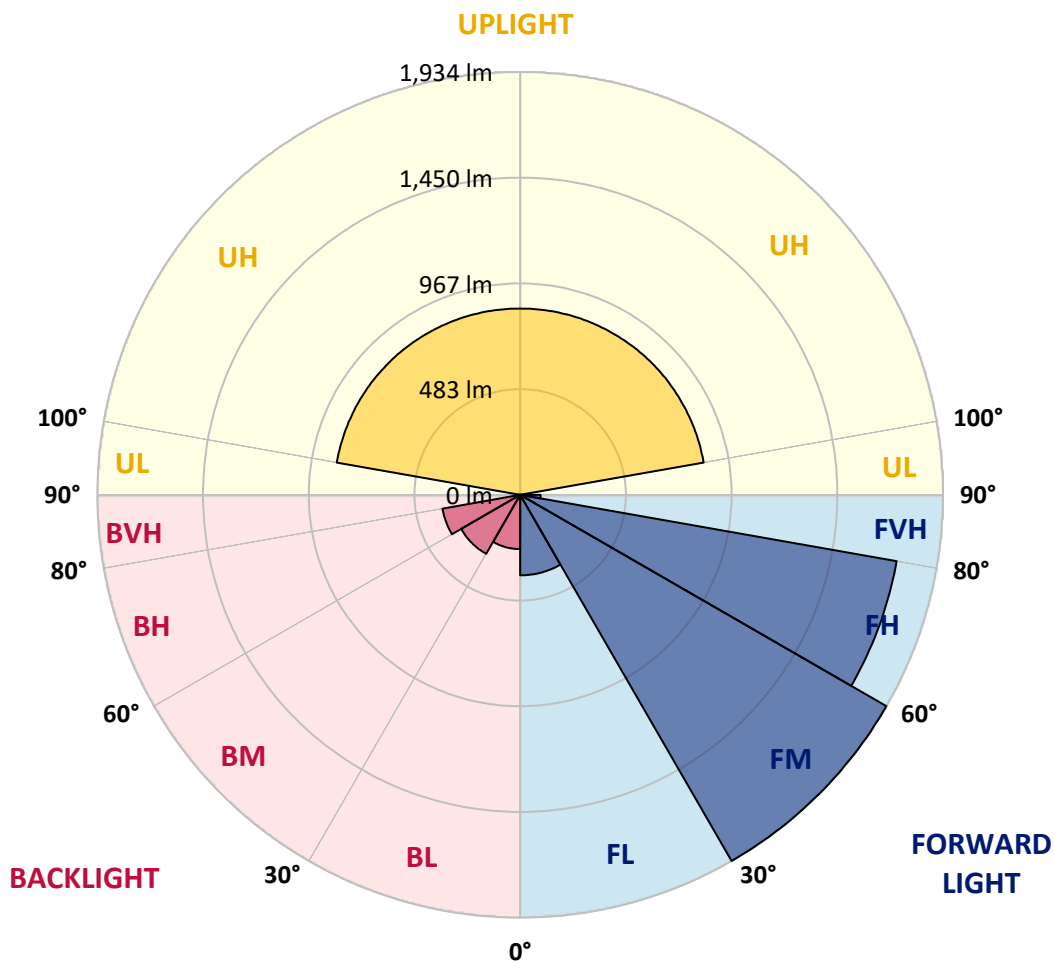
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	368.3	5.4			
FM (30°-60°)	1933.8	28.5			
FH (60°-80°)	1747.9	25.8			G1/1800
FVH (80°-90°)	93.5	1.4			G1/100
BL (0°-30°)	248.2	3.7	B1/500		
BM (30°-60°)	311.8	4.6	B1/1000		
BH (60°-80°)	360.7	5.3	B1/500		G1/500
BVH (80°-90°)	18.4	0.3			G1/100
UL (90°-100°)	10.9	0.2		U2/50	
UH (100°-180°)	851.9	12.6		U4/1000	

BUG Rating: B1-U5-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
0°	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0
2.5°	994.4	996.7	1009.7	1016.5	1026.4	1029.5	1041.0	1045.5	1049.4	1048.6	1048.6
5°	905.0	911.9	918.0	931.8	946.3	963.8	986.0	1002.8	1005.8	1009.7	1012.0
7.5°	837.1	841.6	852.3	862.2	880.6	905.0	936.3	957.8	962.4	963.8	969.2
10°	788.9	792.0	801.2	814.1	835.5	859.2	892.1	914.3	921.1	924.2	928.7
12.5°	751.5	756.1	764.5	778.2	801.2	825.6	859.9	882.1	886.6	890.5	897.4
15°	727.9	731.0	738.6	753.8	774.5	799.0	832.5	859.2	862.2	866.1	872.3
17.5°	723.2	725.7	730.1	741.6	757.6	781.3	815.8	837.8	843.1	848.4	854.6
20°	741.6	743.1	744.7	746.2	755.4	770.7	804.3	827.9	832.5	837.1	844.7
22.5°	781.3	783.6	779.8	774.5	767.5	770.7	799.0	823.4	826.4	830.9	837.1
25°	850.1	847.8	836.3	827.9	803.4	783.6	800.4	821.1	824.8	829.5	836.3
27.5°	931.0	927.9	921.1	898.1	857.7	817.2	809.6	824.8	827.1	830.9	837.1
30°	1018.0	1018.9	1012.7	987.6	935.6	867.7	830.2	834.0	835.5	838.6	842.4
32.5°	1096.7	1108.1	1107.4	1105.9	1031.8	935.6	869.9	854.6	852.3	854.6	856.2
35°	1187.6	1190.0	1211.4	1222.1	1161.7	1034.8	927.9	894.4	885.2	886.0	884.4
37.5°	1285.4	1288.5	1325.1	1343.4	1296.8	1147.9	1005.1	953.1	944.7	936.3	930.3
40°	1427.5	1439.6	1458.8	1479.4	1456.4	1299.8	1106.7	1036.5	1015.1	1013.5	1001.3
42.5°	1639.8	1635.9	1626.8	1643.6	1616.1	1470.3	1229.6	1154.1	1138.1	1116.6	1099.7
45°	1848.3	1856.7	1816.9	1824.5	1826.2	1667.3	1407.6	1301.5	1293.0	1267.8	1249.5
47.5°	1988.8	1979.7	1926.1	1965.1	2060.6	1897.1	1613.7	1502.2	1484.7	1471.7	1460.3
50°	1996.4	1988.8	1954.4	2023.2	2227.1	2305.8	1900.9	1771.2	1745.9	1722.9	1716.1
52.5°	1810.1	1799.3	1810.8	1950.6	2287.4	2647.9	2306.5	2104.9	2084.2	2065.1	2038.4
55°	1477.8	1490.1	1544.3	1745.1	2195.0	2890.7	3104.6	2620.4	2531.9	2531.1	2465.4
57.5°	1103.6	1091.4	1131.9	1320.5	1961.3	2977.2	3837.8	3717.9	3520.1	3386.5	3225.4
60°	744.7	747.7	785.1	882.1	1364.9	2883.1	4328.9	4746.7	4677.1	4649.0	4605.4
62.5°	516.3	520.8	555.2	646.2	798.1	2319.5	4472.5	5323.4	5447.8	5551.0	5525.7
65°	361.3	361.9	396.4	536.8	598.0	1191.4	4155.6	5399.7	5585.3	5762.4	5921.4
66°	318.4	319.3	347.6	499.5	573.6	898.9	3880.6	5293.5	5505.2	5711.3	5875.5
67.5°	272.6	277.3	299.3	424.7	549.9	693.5	3205.4	4976.6	5198.0	5425.0	5641.9
70°	187.0	188.6	208.5	344.4	514.8	608.7	1827.0	3885.2	4191.4	4590.1	4820.8
72.5°	133.7	132.1	134.5	213.1	528.6	604.9	960.0	2557.0	2985.4	3335.2	3585.0
75°	119.1	115.3	105.4	132.1	385.7	660.6	643.1	1505.4	1831.5	2149.9	2405.8
77.5°	106.2	100.0	94.7	101.6	190.9	622.4	577.4	862.2	1028.8	1266.3	1463.4
80°	80.9	77.2	80.2	87.9	114.5	572.8	573.6	573.6	618.7	696.5	774.5
82.5°	53.4	48.9	55.8	72.5	86.2	431.5	592.7	506.4	498.0	494.9	500.3
85°	33.6	29.0	39.0	54.2	66.5	225.4	608.0	534.6	495.7	458.2	420.9
87.5°	12.3	13.7	19.9	31.4	43.6	97.7	533.1	471.3	444.5	397.9	354.4
90°	7.9	7.2	10.7	17.0	17.8	25.2	88.7	138.5	86.0	47.3	39.7
92.5°	4.0	4.0	4.9	5.9	5.9	5.9	6.8	6.8	6.8	6.8	6.8
95°	4.9	4.9	5.9	6.8	6.8	6.8	6.8	7.4	7.5	7.5	7.6
97.5°	6.8	6.8	7.8	7.8	8.8	8.8	11.8	10.8	10.6	10.4	10.2
100°	7.8	7.8	8.8	9.8	11.8	20.6	28.5	26.9	26.7	26.4	26.1
102.5°	10.8	10.8	12.8	17.7	26.5	39.3	49.0	47.6	47.3	47.0	46.7
105°	20.6	21.6	26.5	35.3	47.1	61.8	70.7	69.7	69.5	69.3	69.1
107.5°	40.2	41.2	48.1	57.0	71.7	86.3	93.2	92.7	92.6	92.5	92.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
110°	64.8	66.7	72.7	85.4	100.1	111.9	117.8	118.3	118.4	118.5	118.6
112.5°	97.2	97.2	104.0	118.8	131.5	140.3	145.3	146.2	146.4	146.6	146.9
115°	137.4	136.5	144.3	156.0	164.9	170.8	175.7	177.1	177.4	177.8	178.0
117.5°	180.6	180.6	185.5	193.3	198.3	201.2	207.1	209.0	209.5	209.8	210.2
120°	220.8	218.8	221.8	228.7	232.6	238.5	241.5	243.4	243.8	244.2	244.6
122.5°	258.2	255.2	256.2	262.0	266.0	271.8	273.8	275.8	276.2	276.6	276.9
125°	292.5	288.5	290.5	293.5	299.3	304.3	307.2	308.2	308.4	308.6	308.7
127.5°	323.9	322.9	322.9	326.8	332.7	333.7	338.6	339.1	339.2	339.3	339.4
130°	356.3	354.3	355.3	359.2	363.2	365.1	370.0	372.0	372.3	372.8	373.2
132.5°	388.7	386.7	385.7	393.5	396.5	397.5	403.4	405.9	406.3	406.8	407.3
135°	421.0	418.1	418.1	424.0	427.0	428.9	434.8	437.3	437.7	438.2	438.7
137.5°	451.5	448.5	450.5	451.5	455.4	459.3	464.2	465.2	465.4	465.6	465.8
140°	479.0	476.0	478.0	480.0	481.9	487.8	490.7	491.7	491.9	492.1	492.3
142.5°	508.4	505.5	507.5	508.4	511.3	515.3	517.2	520.2	520.7	521.4	521.9
145°	539.8	535.9	534.0	536.8	539.8	540.8	545.7	548.7	549.2	549.9	550.4
147.5°	564.3	561.4	560.5	563.3	563.3	564.3	569.3	571.7	572.2	572.7	573.2
150°	584.0	581.0	582.0	582.0	582.0	582.0	586.0	587.4	587.7	588.0	588.3
152.5°	599.7	596.7	596.7	597.7	598.7	598.7	599.7	601.1	601.4	601.8	602.0
155°	617.3	613.5	613.5	615.4	618.3	616.3	614.4	616.9	617.3	617.9	618.3
157.5°	634.0	631.1	631.1	632.0	634.0	633.0	632.0	634.0	634.5	634.8	635.2
160°	650.7	647.8	646.8	643.8	642.8	642.8	645.8	648.8	649.4	649.9	650.6
162.5°	660.5	656.6	656.6	652.7	648.8	650.7	654.7	656.6	657.0	657.4	657.8
165°	668.4	665.5	663.5	663.5	660.5	660.5	659.5	662.1	662.5	662.9	663.5
167.5°	677.2	674.3	671.3	673.3	675.3	672.3	665.5	668.4	669.0	669.6	670.1
170°	685.0	682.2	679.2	679.2	680.2	678.2	673.3	674.8	675.1	675.3	675.6
172.5°	686.0	684.1	682.2	680.2	677.2	677.2	676.2	677.7	678.0	678.3	678.6
175°	687.0	685.0	684.1	682.2	678.2	677.2	677.2	679.7	680.2	680.6	681.2
177.5°	693.9	692.0	687.0	686.0	684.1	682.2	681.2	683.6	684.1	684.6	685.0
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0



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CANDELA DISTRIBUTION (continued):

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
0°	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0
2.5°	1049.4	1053.3	1054.7	1053.3	1054.0	1058.6	1057.0	1059.3	1059.3	1060.9	1060.9
5°	1015.1	1018.0	1024.2	1023.3	1029.5	1031.8	1034.1	1037.1	1041.0	1043.3	1047.9
7.5°	974.5	980.7	986.0	989.0	992.9	1000.5	1002.8	1009.7	1015.8	1021.9	1026.4
10°	935.6	944.0	950.0	952.5	960.7	964.6	973.0	978.3	986.0	993.6	1000.5
12.5°	902.8	910.4	913.5	921.1	928.7	936.3	940.2	950.0	957.8	967.7	976.9
15°	878.4	886.0	892.1	897.4	905.0	912.7	918.8	928.7	937.9	947.8	956.2
17.5°	863.0	867.7	875.3	879.8	889.1	898.1	905.0	916.5	926.4	934.9	946.3
20°	851.5	856.9	863.8	870.6	879.1	890.5	896.7	908.8	919.5	929.5	940.2
22.5°	845.5	850.9	857.7	864.6	873.7	882.9	892.8	903.5	914.9	925.6	936.3
25°	843.1	847.8	853.9	860.8	870.6	880.6	889.1	901.2	911.2	922.6	935.6
27.5°	844.0	847.0	853.9	859.9	869.9	879.1	887.4	899.7	911.2	921.8	934.9
30°	847.0	849.3	856.2	861.6	869.9	879.1	886.6	899.7	909.6	921.1	934.9
32.5°	857.7	860.8	863.8	867.7	875.3	882.1	891.3	902.8	911.9	923.4	934.9
35°	882.9	880.6	882.9	884.4	889.8	896.7	903.5	913.5	921.8	931.8	944.0
37.5°	922.6	918.0	919.5	918.8	918.8	923.4	930.3	937.1	944.0	953.9	966.1
40°	996.0	984.5	981.4	973.0	970.7	974.5	979.2	979.9	988.2	1001.3	1006.6
42.5°	1090.6	1075.3	1077.7	1064.0	1060.1	1055.5	1061.5	1057.8	1063.1	1071.6	1083.0
45°	1240.3	1225.7	1210.6	1188.4	1192.9	1176.2	1171.6	1173.2	1172.4	1175.4	1189.2
47.5°	1419.1	1400.0	1389.9	1381.6	1365.5	1355.6	1342.7	1323.6	1328.1	1334.3	1346.5
50°	1680.2	1674.1	1655.0	1627.5	1623.8	1609.2	1605.5	1588.7	1582.5	1581.7	1580.9
52.5°	2029.3	1989.6	1981.9	1956.0	1936.0	1922.4	1917.8	1894.1	1870.5	1884.1	1882.7
55°	2454.7	2421.8	2379.8	2357.0	2340.9	2308.0	2299.6	2269.8	2256.1	2248.5	2229.3
57.5°	3169.6	3054.2	2967.9	2925.2	2864.9	2803.7	2782.3	2721.2	2673.9	2640.3	2642.5
60°	4416.0	4210.5	3968.4	3859.9	3608.7	3572.0	3399.5	3357.4	3253.6	3184.9	3145.1
62.5°	5508.1	5452.4	5336.3	5178.2	4926.1	4636.0	4505.4	4245.7	4042.6	3953.9	3830.9
65°	6029.9	6108.5	6140.5	6110.7	6009.9	5832.8	5677.0	5423.3	5082.7	4890.4	4651.2
66°	6003.0	6120.0	6178.7	6209.3	6172.6	6068.1	5904.5	5696.1	5432.5	5139.2	4871.1
67.5°	5807.5	5921.4	6003.0	6096.3	6096.3	6063.4	5996.9	5857.9	5671.6	5415.7	5175.1
70°	5008.7	5163.0	5307.3	5335.6	5414.9	5390.5	5443.2	5354.7	5310.3	5203.4	5074.3
72.5°	3902.0	4031.1	4154.8	4278.4	4257.9	4231.2	4225.9	4244.1	4154.0	4186.1	4152.4
75°	2595.2	2817.4	2944.3	2932.1	2940.4	2947.2	2890.7	2764.7	2862.4	2738.8	2780.1
77.5°	1577.2	1680.2	1714.7	1676.5	1626.8	1562.6	1459.6	1399.2	1313.0	1319.8	1262.5
80°	827.1	840.2	812.7	735.5	693.5	655.3	537.6	484.9	436.0	417.8	376.5
82.5°	474.2	443.0	409.4	383.4	333.8	300.1	254.3	225.4	194.0	166.5	156.6
85°	384.1	342.2	310.8	281.8	248.2	218.5	180.2	150.5	127.6	110.7	106.9
87.5°	316.9	288.0	255.8	228.3	195.5	165.0	127.6	99.4	78.7	63.4	58.7
90°	36.9	47.0	36.3	24.2	31.7	21.1	15.7	16.5	14.9	14.9	15.7
92.5°	6.8	6.8	6.7	6.6	6.6	6.5	6.4	6.3	6.2	6.1	6.0
95°	7.7	7.8	7.7	7.6	7.5	7.5	7.4	7.3	7.2	7.1	7.0
97.5°	10.0	9.8	9.7	9.6	9.5	9.4	9.3	9.3	9.2	9.1	8.9
100°	25.8	25.5	25.2	25.0	24.6	24.3	24.1	23.7	23.4	23.2	22.9
102.5°	46.4	46.2	45.6	45.2	44.6	44.2	43.7	43.2	42.7	42.2	41.7
105°	68.9	68.7	68.2	67.7	67.2	66.7	66.3	65.8	65.3	64.8	64.3
107.5°	92.3	92.3	91.9	91.4	91.1	90.7	90.3	89.9	89.5	89.1	88.8



REPORT NUMBER: P271862

CATALOG NUMBER: ISW-AF-1000-LED-E1-SL2-7027-ULG

CANDELA DISTRIBUTION (continued):

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
110°	118.7	118.8	118.6	118.4	118.1	117.9	117.8	117.6	117.4	117.2	117.0
112.5°	147.1	147.2	147.1	147.1	147.0	146.9	146.7	146.6	146.5	146.4	146.3
115°	178.3	178.7	178.3	178.0	177.8	177.4	177.1	176.9	176.6	176.2	176.0
117.5°	210.7	211.0	210.6	210.0	209.6	209.0	208.6	208.0	207.6	207.1	206.6
120°	245.0	245.3	244.9	244.4	243.9	243.4	242.9	242.5	241.9	241.5	240.9
122.5°	277.4	277.8	277.3	276.8	276.3	275.8	275.3	274.8	274.3	273.8	273.4
125°	308.9	309.2	308.7	308.2	307.7	307.2	306.7	306.2	305.7	305.2	304.7
127.5°	339.5	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6
130°	373.5	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0
132.5°	407.8	408.3	408.1	407.9	407.7	407.5	407.3	407.1	406.9	406.8	406.6
135°	439.2	439.7	439.6	439.5	439.5	439.3	439.2	439.1	439.0	438.9	438.8
137.5°	466.0	466.2	466.3	466.4	466.5	466.6	466.7	466.8	466.8	467.0	467.1
140°	492.5	492.7	492.9	493.1	493.3	493.5	493.7	493.9	494.1	494.2	494.4
142.5°	522.5	523.2	523.2	523.2	523.2	523.2	523.2	523.2	523.2	523.2	523.2
145°	551.0	551.6	551.5	551.4	551.3	551.2	551.1	551.0	550.9	550.8	550.8
147.5°	573.7	574.2	574.3	574.4	574.5	574.6	574.6	574.7	574.8	574.9	575.1
150°	588.6	588.9	589.2	589.5	589.7	590.1	590.4	590.6	590.9	591.3	591.5
152.5°	602.3	602.7	603.0	603.4	603.8	604.2	604.6	605.0	605.4	605.7	606.2
155°	618.8	619.3	619.8	620.3	620.8	621.3	621.8	622.3	622.7	623.2	623.7
157.5°	635.6	636.0	636.2	636.4	636.6	636.8	637.0	637.2	637.3	637.5	637.8
160°	651.1	651.7	651.5	651.1	650.8	650.6	650.2	649.9	649.7	649.4	649.0
162.5°	658.2	658.5	658.5	658.4	658.3	658.2	658.1	658.0	657.9	657.8	657.6
165°	663.9	664.5	664.7	665.0	665.4	665.6	665.9	666.3	666.5	666.8	667.1
167.5°	670.8	671.3	671.8	672.1	672.5	672.9	673.3	673.7	674.1	674.4	674.9
170°	676.0	676.2	676.7	677.2	677.7	678.2	678.7	679.2	679.7	680.2	680.6
172.5°	678.8	679.2	679.4	679.6	679.7	679.9	680.2	680.4	680.6	680.7	680.9
175°	681.6	682.2	682.3	682.4	682.4	682.5	682.6	682.7	682.8	682.9	683.0
177.5°	685.6	686.0	686.2	686.5	686.7	686.8	687.0	687.2	687.5	687.7	687.8
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0



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CANDELA DISTRIBUTION (continued):

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0
2.5°	1063.1	1063.1	1064.7	1066.2	1067.0	1067.0	1067.0	1068.4	1069.3	1067.0	1069.3
5°	1050.2	1054.0	1057.0	1059.3	1060.1	1062.3	1064.7	1066.2	1068.4	1068.4	1070.0
7.5°	1032.6	1039.5	1043.3	1047.2	1050.8	1054.7	1059.3	1062.3	1064.0	1067.0	1069.3
10°	1010.4	1018.9	1026.4	1032.6	1037.9	1045.5	1051.6	1056.2	1063.1	1064.0	1069.3
12.5°	986.8	998.9	1005.1	1016.5	1024.2	1035.7	1041.8	1048.6	1056.2	1060.1	1066.2
15°	970.0	980.7	992.1	1002.8	1015.1	1028.8	1036.5	1045.5	1056.2	1064.7	1072.3
17.5°	957.0	971.4	984.5	998.3	1013.5	1028.0	1039.5	1049.4	1063.1	1067.7	1075.3
20°	953.1	969.2	982.2	996.7	1012.7	1031.8	1045.5	1056.2	1070.0	1077.7	1084.5
22.5°	951.7	966.8	982.2	999.7	1017.3	1037.1	1051.6	1065.4	1079.1	1086.1	1091.4
25°	950.0	966.1	982.9	1002.8	1021.9	1042.6	1059.3	1072.3	1085.3	1092.2	1096.7
27.5°	950.0	966.8	985.2	1005.1	1025.8	1048.6	1064.7	1076.9	1088.4	1094.5	1096.0
30°	949.4	966.8	984.5	1006.6	1028.8	1052.5	1070.0	1081.5	1091.4	1095.2	1093.7
32.5°	950.9	969.2	988.2	1010.4	1033.3	1056.2	1074.6	1087.6	1092.9	1092.2	1091.4
35°	958.5	975.3	997.5	1019.6	1043.3	1064.7	1082.3	1091.4	1096.0	1094.5	1090.6
37.5°	979.2	996.0	1018.0	1042.6	1060.9	1085.3	1101.3	1108.1	1109.0	1104.4	1095.2
40°	1021.9	1038.7	1058.6	1085.3	1107.4	1124.2	1139.5	1147.1	1142.6	1134.2	1124.2
42.5°	1089.8	1111.2	1134.9	1156.3	1182.3	1205.2	1209.0	1213.6	1206.0	1190.0	1177.7
45°	1199.1	1212.0	1242.6	1258.6	1292.2	1303.7	1312.2	1314.4	1297.6	1284.7	1263.3
47.5°	1356.4	1381.6	1403.1	1418.2	1442.7	1457.9	1474.7	1467.1	1454.2	1432.0	1403.8
50°	1603.8	1619.9	1647.4	1674.9	1700.9	1711.6	1711.6	1703.9	1695.6	1652.7	1618.4
52.5°	1907.8	1909.3	1949.1	1981.9	2004.1	1987.9	2007.2	1987.9	1982.6	1952.9	1924.7
55°	2260.0	2245.4	2293.6	2322.6	2342.4	2361.6	2357.7	2355.4	2335.5	2302.0	2267.6
57.5°	2594.5	2636.4	2659.3	2702.1	2712.1	2725.1	2719.7	2712.1	2700.7	2681.5	2666.3
60°	3077.1	3105.4	3126.0	3134.5	3162.8	3166.4	3185.6	3154.3	3161.9	3139.8	3091.7
62.5°	3734.0	3703.4	3719.4	3719.4	3711.1	3681.3	3697.3	3709.6	3688.9	3670.6	3663.0
65°	4469.4	4371.0	4276.2	4260.2	4216.6	4206.8	4194.5	4163.9	4151.0	4118.9	4092.9
66°	4689.4	4536.7	4447.3	4392.4	4339.6	4328.1	4311.3	4279.3	4253.4	4208.3	4164.7
67.5°	4936.1	4739.1	4604.6	4526.6	4461.8	4419.0	4385.4	4339.6	4298.4	4231.2	4161.7
70°	4920.1	4757.4	4595.5	4477.2	4379.3	4291.6	4239.6	4141.1	4057.0	3960.8	3881.4
72.5°	4134.2	4105.2	4011.2	3944.7	3824.8	3778.3	3640.8	3578.2	3462.1	3337.7	3299.4
75°	2873.9	2760.2	2712.1	2685.3	2632.7	2487.6	2392.8	2413.5	2277.6	2156.0	2086.5
77.5°	1256.4	1279.3	1146.3	1086.8	1041.0	962.4	889.1	838.6	809.6	790.5	704.2
80°	347.6	303.2	299.3	277.9	273.4	243.6	247.4	226.0	211.6	208.5	201.6
82.5°	152.0	148.8	144.4	142.0	139.8	136.7	132.9	132.1	127.6	123.8	124.4
85°	100.8	100.0	97.7	95.5	91.6	86.2	82.5	79.4	80.2	76.4	75.5
87.5°	58.7	57.3	56.5	53.4	52.7	48.1	48.9	45.1	44.3	43.6	41.2
90°	17.2	17.8	19.9	19.0	15.7	22.4	19.9	18.1	18.8	16.2	16.0
92.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
95°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
97.5°	8.8	8.7	8.6	8.5	8.4	8.4	8.3	8.2	8.1	7.9	7.8
100°	22.5	22.2	21.8	21.4	21.0	20.6	20.2	19.9	19.4	19.0	18.7
102.5°	41.2	41.0	40.6	40.3	40.1	39.7	39.4	39.2	38.9	38.5	38.3
105°	63.8	63.4	63.0	62.6	62.3	61.8	61.4	61.1	60.6	60.3	59.8
107.5°	88.3	88.0	87.8	87.5	87.1	86.9	86.6	86.2	86.0	85.7	85.4



REPORT NUMBER: P271862
 CATALOG NUMBER: ISW-AF-1000-LED-E1-SL2-7027-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	
110°	116.8	116.5	116.2	115.9	115.6	115.3	115.1	114.7	114.4	114.2	113.8	0°
112.5°	146.2	146.1	145.9	145.6	145.4	145.3	145.1	144.9	144.6	144.4	144.3	2.5°
115°	175.7	175.5	175.3	175.1	174.9	174.7	174.5	174.3	174.1	173.9	173.7	5°
117.5°	206.1	205.9	205.7	205.5	205.4	205.2	204.9	204.7	204.5	204.4	204.2	7.5°
120°	240.5	240.3	240.0	239.8	239.7	239.5	239.3	239.1	238.9	238.7	238.5	10°
122.5°	272.8	272.6	272.5	272.3	272.1	271.8	271.6	271.5	271.3	271.1	270.9	12.5°
125°	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	15°
127.5°	339.6	339.5	339.4	339.3	339.2	339.1	339.0	338.9	338.8	338.8	338.6	17.5°
130°	374.0	373.8	373.5	373.3	373.2	373.0	372.8	372.5	372.3	372.2	372.0	20°
132.5°	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	22.5°
135°	438.7	439.0	439.3	439.6	439.9	440.2	440.5	440.8	441.1	441.3	441.7	25°
137.5°	467.2	467.7	468.2	468.6	469.2	469.6	470.2	470.6	471.1	471.6	472.1	27.5°
140°	494.7	495.1	495.7	496.1	496.7	497.1	497.6	498.1	498.6	499.1	499.5	30°
142.5°	523.2	523.3	523.4	523.4	523.5	523.6	523.7	523.8	523.9	524.0	524.1	32.5°
145°	550.6	550.3	550.0	549.8	549.4	549.1	548.9	548.5	548.2	548.0	547.7	35°
147.5°	575.2	574.8	574.6	574.3	573.9	573.7	573.4	573.1	572.8	572.5	572.2	37.5°
150°	591.8	592.2	592.4	592.7	593.0	593.3	593.6	593.9	594.2	594.5	594.8	40°
152.5°	606.5	607.1	607.5	608.1	608.5	609.1	609.5	609.9	610.5	610.9	611.5	42.5°
155°	624.2	624.4	624.6	624.8	625.0	625.2	625.4	625.6	625.8	626.0	626.2	45°
157.5°	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	47.5°
160°	648.8	648.7	648.6	648.5	648.4	648.3	648.1	648.0	647.9	647.9	647.8	50°
162.5°	657.6	657.4	657.2	657.0	656.8	656.6	656.4	656.2	656.0	655.9	655.7	52.5°
165°	667.4	667.2	667.0	666.8	666.6	666.5	666.3	666.0	665.8	665.6	665.5	55°
167.5°	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	57.5°
170°	681.2	681.4	681.5	681.7	681.9	682.2	682.4	682.5	682.7	682.9	683.1	60°
172.5°	681.2	681.4	681.5	681.7	681.9	682.2	682.4	682.5	682.7	682.9	683.1	62.5°
175°	683.1	682.9	682.7	682.5	682.4	682.2	681.9	681.7	681.5	681.4	681.2	65°
177.5°	688.0	687.7	687.5	687.1	686.8	686.6	686.2	685.9	685.7	685.4	685.0	66°
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°

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 NUMBER: ISW-AF-1000-LED-E1-SL2-7027-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	86°	
1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	110°	114.1
1071.6	1073.0	1073.8	1073.0	1074.6	1073.8	1074.6	1073.8	1070.0	1069.3	1068.4	112.5°	144.3
1073.0	1076.1	1076.9	1077.7	1076.1	1077.7	1074.6	1062.3	1048.6	1033.3	1021.1	115°	173.9
1074.6	1078.4	1080.8	1080.8	1081.5	1079.9	1068.4	1041.8	1009.7	977.5	953.1	117.5°	204.4
1073.8	1079.1	1081.5	1082.3	1082.3	1079.1	1051.6	1008.9	960.0	911.2	861.6	120°	238.5
1071.6	1076.1	1079.9	1079.9	1080.8	1070.0	1027.2	966.1	896.7	823.4	756.9	122.5°	271.1
1076.1	1080.8	1080.8	1080.8	1079.9	1061.5	1001.3	912.7	819.5	720.2	621.6	125°	304.3
1083.0	1085.3	1083.7	1083.7	1080.8	1053.3	972.2	859.9	737.8	606.4	468.9	127.5°	339.0
1089.1	1090.6	1089.8	1086.1	1082.3	1044.0	942.4	804.3	640.0	468.9	332.2	130°	372.2
1095.2	1096.7	1092.9	1086.8	1081.5	1031.8	906.6	733.2	529.3	320.8	219.9	132.5°	406.6
1096.0	1097.5	1090.6	1082.3	1074.6	1013.5	863.0	657.6	407.8	207.8	171.8	135°	441.9
1095.2	1093.7	1082.3	1071.6	1063.1	991.4	814.9	563.7	271.8	156.6	149.7	137.5°	472.3
1089.8	1083.0	1073.8	1061.5	1049.4	966.8	766.8	459.0	171.8	135.9	135.9	140°	500.0
1082.3	1075.3	1064.0	1047.9	1034.1	943.2	711.7	352.0	137.5	125.2	126.8	142.5°	524.5
1079.1	1071.6	1054.7	1037.9	1020.4	921.8	653.8	236.7	123.8	118.4	119.1	145°	548.1
1085.3	1072.3	1055.5	1036.5	1015.8	903.5	593.4	165.0	116.9	110.7	112.3	147.5°	572.6
1105.9	1093.7	1073.8	1049.4	1027.2	892.8	529.3	136.7	110.0	104.7	104.7	150°	595.6
1155.6	1139.5	1112.8	1083.7	1057.0	899.7	472.0	124.4	104.7	99.4	99.4	152.5°	612.5
1235.8	1216.7	1185.3	1152.4	1117.3	933.2	407.1	119.9	100.8	93.2	91.6	155°	626.7
1373.1	1348.1	1306.8	1267.8	1225.7	991.4	341.4	116.9	96.2	89.3	86.2	157.5°	639.0
1589.3	1551.9	1503.0	1451.9	1400.6	1097.5	289.4	113.7	93.2	86.2	83.3	160°	648.9
1867.4	1842.2	1781.1	1713.9	1652.7	1309.1	259.7	111.5	90.9	82.5	80.2	162.5°	656.8
2221.8	2180.5	2132.4	2072.0	1999.4	1583.3	256.6	110.7	88.7	79.4	78.0	165°	666.3
2596.0	2579.9	2498.3	2460.7	2382.1	1948.3	312.4	112.3	87.0	77.2	74.9	167.5°	676.4
3023.0	3029.1	2952.7	2911.4	2846.5	2411.1	497.2	116.9	87.0	74.9	72.5	170°	684.1
3581.3	3591.2	3501.1	3452.2	3397.2	2929.7	781.3	124.4	89.3	72.5	70.2	172.5°	684.1
4038.7	3985.2	3927.2	3841.6	3772.2	3219.2	752.3	138.2	92.4	70.2	68.0	175°	682.2
4086.1	4047.9	3974.6	3882.1	3797.3	3220.7	656.8	142.8	93.2	69.5	67.2	177.5°	685.9
4079.9	4012.0	3928.6	3850.9	3767.6	3138.3	507.9	148.8	95.5	68.0	65.7	180°	687.0
3797.3	3701.8	3621.0	3513.2	3426.1	2808.3	312.4	148.2	92.4	63.4	61.8		
3131.4	3082.4	2986.2	2900.0	2809.1	2272.9	213.9	132.1	81.7	57.3	58.0		
2025.5	1969.7	1872.0	1823.1	1771.9	1454.2	166.5	107.7	69.5	51.1	53.4		
676.0	653.8	617.9	637.8	608.0	566.7	122.2	81.7	55.8	44.3	47.3		
202.4	197.8	204.6	192.5	203.9	172.7	80.2	57.3	42.8	38.2	42.0		
119.9	118.4	118.4	118.4	115.3	107.7	52.7	39.7	32.9	32.1	35.1		
73.3	71.8	72.5	71.8	73.3	65.7	35.9	27.5	24.4	23.6	28.3		
42.0	42.0	42.8	41.2	42.0	40.4	25.2	17.6	16.0	15.3	20.6		
16.8	16.8	14.6	13.7	14.6	17.6	15.7	14.1	11.5	10.7	14.7		
5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.8	6.8	5.9	5.9		
6.8	6.8	6.8	6.8	6.8	6.8	6.8	7.8	6.8	6.8	6.8		
7.8	7.8	7.8	7.8	7.8	7.8	8.8	9.8	11.8	8.8	8.8		
18.7	18.7	18.7	18.7	18.7	18.7	22.5	25.5	28.5	20.6	11.8		
38.1	37.9	37.7	37.5	37.3	38.3	41.2	46.2	49.0	39.3	26.5		
59.8	59.8	59.8	59.8	59.8	59.8	63.8	68.7	70.7	61.8	47.1		
85.2	85.0	84.8	84.6	84.4	85.4	88.3	92.3	93.2	86.3	71.7		

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REPORT NUMBER: P271862
 CATALOG NUMBER: ISW-AF-10

TION (continued):

CANDELA DISTRIBUTION (con

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°		155°	165°
114.3	114.4	114.6	114.8	113.8	116.8	118.8	117.8	111.9	100.1	0°	1070.0	1070.0
144.3	144.3	144.3	144.3	144.3	146.2	147.2	145.3	140.3	131.5	2.5°	1062.3	1057.0
174.1	174.3	174.5	174.7	173.7	175.7	178.7	175.7	170.8	164.9	5°	1002.0	987.6
204.5	204.7	204.9	205.2	204.2	206.1	211.0	207.1	201.2	198.3	7.5°	914.9	898.1
238.5	238.5	238.5	238.5	238.5	240.5	245.3	241.5	238.5	232.6	10°	815.8	790.5
271.3	271.5	271.6	271.8	270.9	272.8	277.8	273.8	271.8	266.0	12.5°	688.9	639.2
304.3	304.3	304.3	304.3	304.3	304.3	309.2	307.2	304.3	299.3	15°	542.3	475.8
339.4	339.8	340.2	340.5	338.6	339.6	339.6	338.6	333.7	332.7	17.5°	373.4	320.0
372.3	372.5	372.8	373.0	372.0	374.0	374.0	370.0	365.1	363.2	20°	261.9	242.1
406.8	406.9	407.1	407.3	406.3	406.3	408.3	403.4	397.5	396.5	22.5°	202.4	203.2
442.1	442.2	442.4	442.7	441.7	438.7	439.7	434.8	428.9	427.0	25°	168.1	175.7
472.5	472.7	472.9	473.0	472.1	467.2	466.2	464.2	459.3	455.4	27.5°	148.2	155.8
500.4	500.7	501.2	501.5	499.5	494.7	492.7	490.7	487.8	481.9	30°	135.9	142.8
524.9	525.3	525.7	526.0	524.1	523.2	523.2	517.2	515.3	511.3	32.5°	127.6	130.6
548.4	548.9	549.2	549.7	547.7	550.6	551.6	545.7	540.8	539.8	35°	117.6	119.1
573.0	573.4	573.7	574.2	572.2	575.2	574.2	569.3	564.3	563.3	37.5°	109.2	109.2
596.4	597.1	597.9	598.7	594.8	591.8	588.9	586.0	582.0	582.0	40°	101.6	100.8
613.5	614.4	615.4	616.3	611.5	606.5	602.7	599.7	598.7	598.7	42.5°	94.7	94.0
627.4	627.9	628.5	629.2	626.2	624.2	619.3	614.4	616.3	618.3	45°	87.9	88.7
640.0	640.9	641.9	642.8	638.0	638.0	636.0	632.0	633.0	634.0	47.5°	84.0	84.8
650.1	651.3	652.5	653.7	647.8	648.8	651.7	645.8	642.8	642.8	50°	80.2	80.9
658.0	659.2	660.3	661.5	655.7	657.6	658.5	654.7	650.7	648.8	52.5°	77.2	77.2
667.0	667.8	668.6	669.3	665.5	667.4	664.5	659.5	660.5	660.5	55°	74.1	73.3
677.6	678.8	679.9	681.2	675.3	675.3	671.3	665.5	672.3	675.3	57.5°	71.8	70.2
685.0	686.0	687.0	688.0	683.1	681.2	676.2	673.3	678.2	680.2	60°	69.5	68.0
685.0	686.0	687.0	688.0	683.1	681.2	679.2	676.2	677.2	677.2	62.5°	68.0	65.7
683.1	684.1	685.0	686.0	681.2	683.1	682.2	677.2	677.2	678.2	65°	66.5	64.9
686.7	687.5	688.2	689.0	685.0	688.0	686.0	681.2	682.2	684.1	66°	65.7	64.2
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	67.5°	64.9	63.4
										70°	61.8	60.4
										72.5°	57.3	56.5
										75°	52.7	51.1
										77.5°	46.6	45.8
										80°	39.7	39.0
										82.5°	33.6	32.1
										85°	26.7	25.2
										87.5°	18.3	16.8
										90°	12.5	12.1
										92.5°	5.9	4.9
										95°	6.8	5.9
										97.5°	7.8	7.8
										100°	9.8	8.8
										102.5°	17.7	12.8
										105°	35.3	26.5
										107.5°	57.0	48.1



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tinued):

175°	180°
1070.0	1070.0
1052.5	1059.3
982.9	980.7
884.4	885.2
765.3	766.8
610.9	601.9
437.7	441.4
304.7	304.0
244.4	246.0
209.2	209.2
186.4	186.4
164.2	165.0
148.8	150.5
135.1	135.9
121.5	122.2
110.0	110.0
102.4	103.1
96.9	96.9
91.6	91.6
87.0	88.7
82.5	83.3
78.0	78.7
73.3	73.3
69.5	69.5
66.5	65.7
64.2	62.6
61.8	61.2
61.2	60.4
60.4	59.6
58.7	58.0
56.5	55.8
51.9	50.5
47.3	45.8
43.6	41.2
36.7	35.1
26.7	25.2
16.0	16.0
8.7	8.7
4.0	4.0
4.9	4.9
6.8	6.8
7.8	7.8
10.8	10.8
21.6	20.6
41.2	40.2

CANDELA DISTRIBUTION (continued):

	155°	165°	175°
110°	85.4	72.7	66.7
112.5°	118.8	104.0	97.2
115°	156.0	144.3	136.5
117.5°	193.3	185.5	180.6
120°	228.7	221.8	218.8
122.5°	262.0	256.2	255.2
125°	293.5	290.5	288.5
127.5°	326.8	322.9	322.9
130°	359.2	355.3	354.3
132.5°	393.5	385.7	386.7
135°	424.0	418.1	418.1
137.5°	451.5	450.5	448.5
140°	480.0	478.0	476.0
142.5°	508.4	507.5	505.5
145°	536.8	534.0	535.9
147.5°	563.3	560.5	561.4
150°	582.0	582.0	581.0
152.5°	597.7	596.7	596.7
155°	615.4	613.5	613.5
157.5°	632.0	631.1	631.1
160°	643.8	646.8	647.8
162.5°	652.7	656.6	656.6
165°	663.5	663.5	665.5
167.5°	673.3	671.3	674.3
170°	679.2	679.2	682.2
172.5°	680.2	682.2	684.1
175°	682.2	684.1	685.0
177.5°	686.0	687.0	692.0
180°	687.0	687.0	687.0

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180°
64.8
97.2
137.4
180.6
220.8
258.2
292.5
323.9
356.3
388.7
421.0
451.5
479.0
508.4
539.8
564.3
584.0
599.7
617.3
634.0
650.7
660.5
668.4
677.2
685.0
686.0
687.0
693.9
687.0

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