

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: P271856

Luminaire Tested: **ISW-AF-800-LED-E1-SLR-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271856
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-800-LED-E1-SLR-7027-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR RIGHT, 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: 5542.1 lumens
Efficiency: N/A
Efficacy: 92.1 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

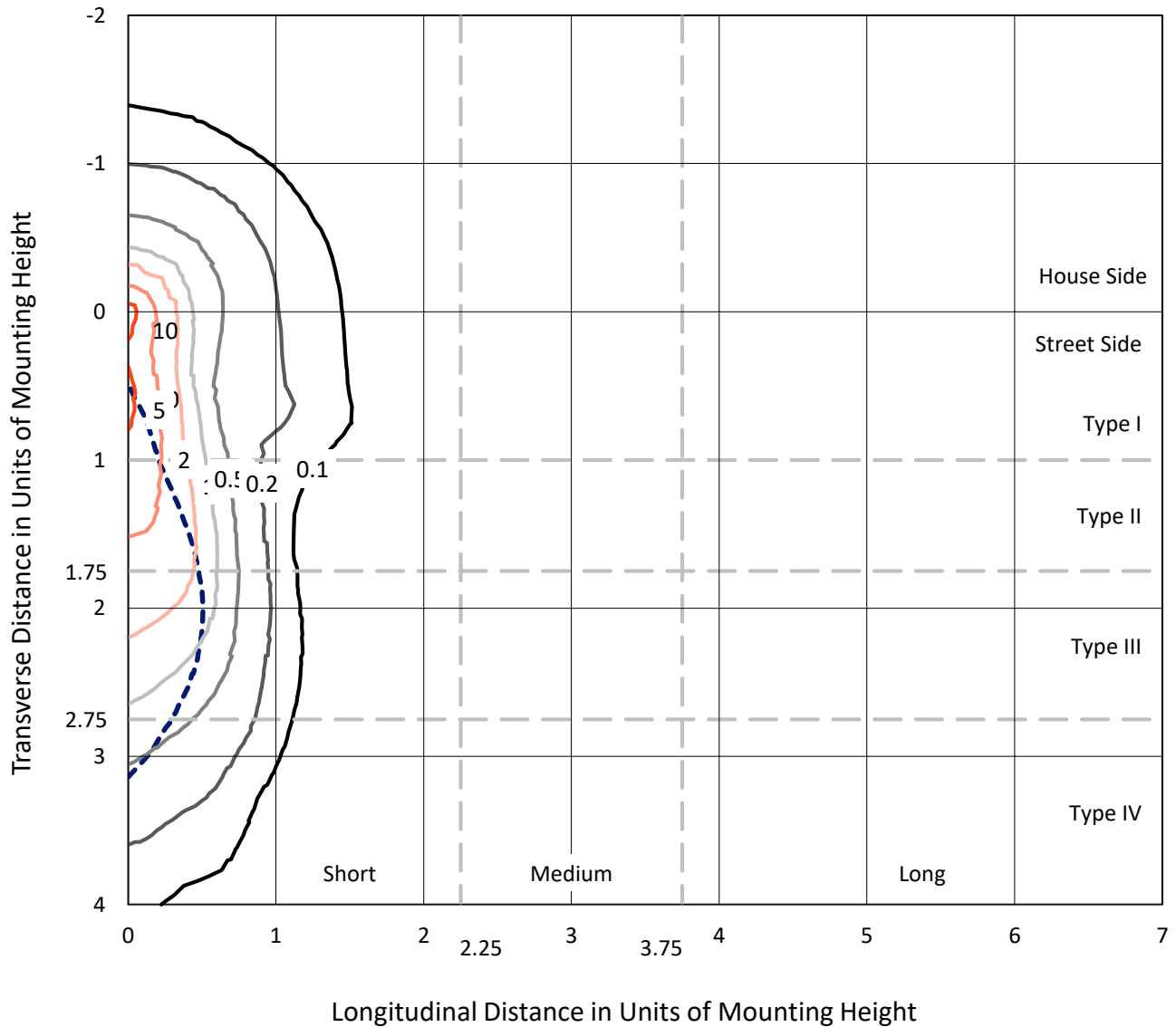
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

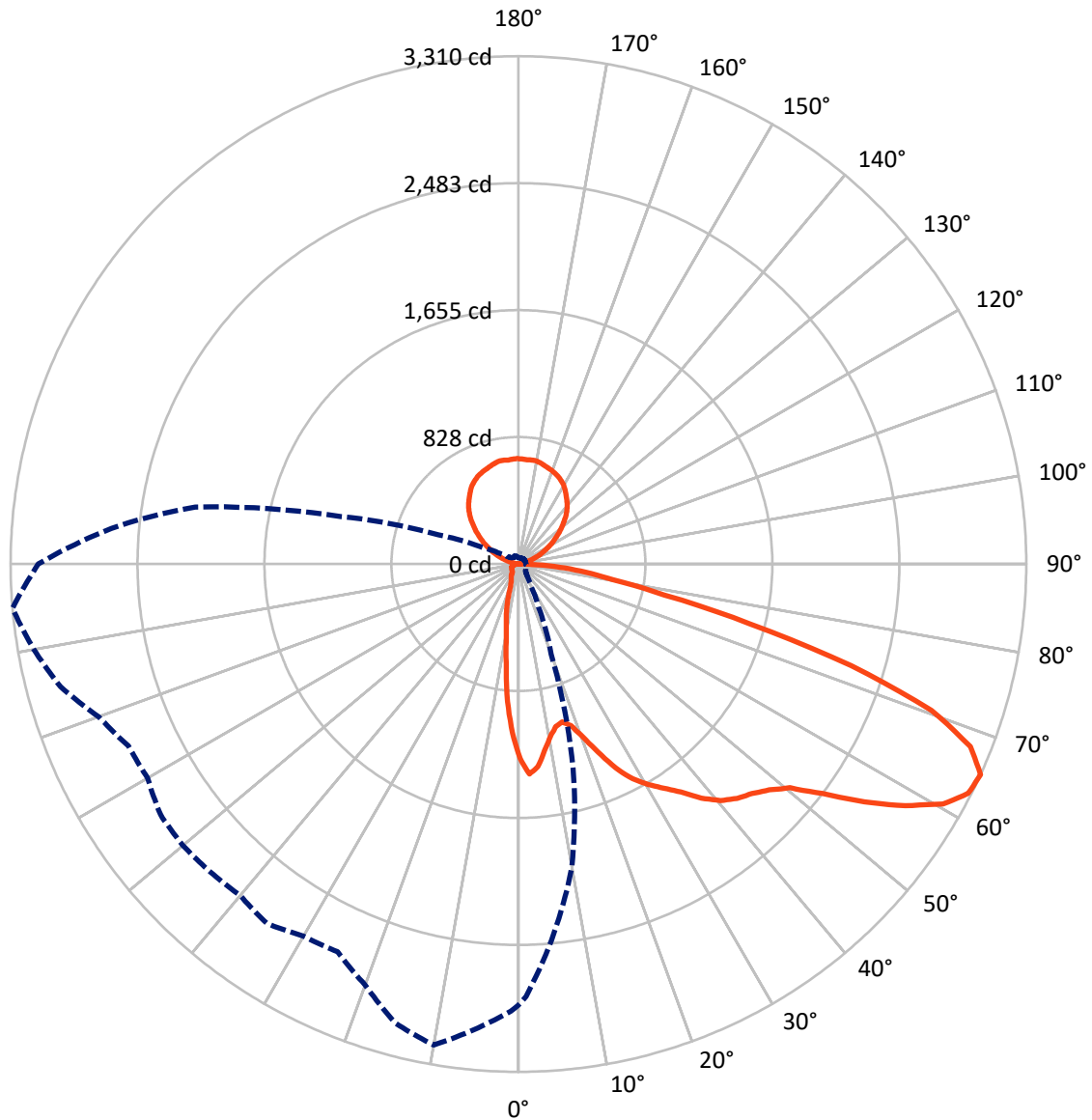
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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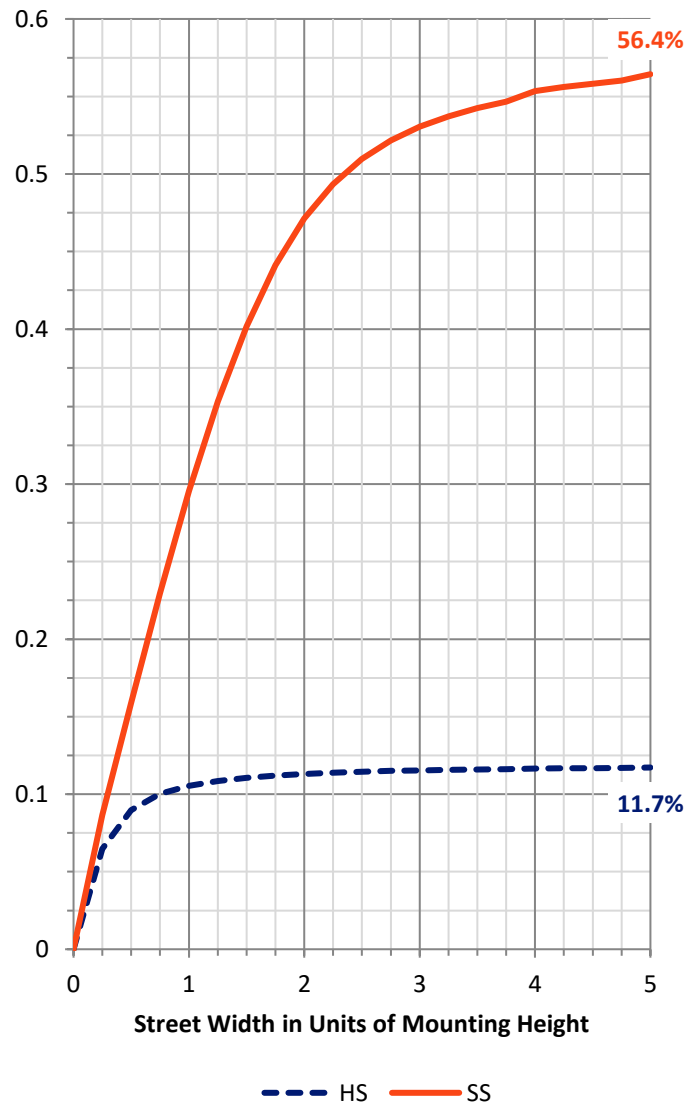
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	658.9	851.5	1510.4
	% Fixture	11.9	15.4	27.3
Street Side	Lumens	3180.1	851.6	4031.8
	% Fixture	57.4	15.4	72.7
Total	Lumens	3839.0	1703.2	5542.1
	% Fixture	69.3	30.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	1.7
10°-20°	180.7	3.3
20°-30°	257.7	4.7
30°-40°	373.9	6.7
40°-50°	534.9	9.7
50°-60°	821.3	14.8
60°-70°	950.6	17.2
70°-80°	484.9	8.8
80°-90°	141.0	2.5
90°-100°	9.2	0.2
100°-110°	56.3	1.0
110°-120°	163.0	2.9
120°-130°	268.1	4.8
130°-140°	330.6	6.0
140°-150°	338.2	6.1
150°-160°	284.9	5.1
160°-170°	187.6	3.4
170°-180°	65.0	1.2
0°-90°	3839.0	69.3
0°-180°	5542.1	100.0



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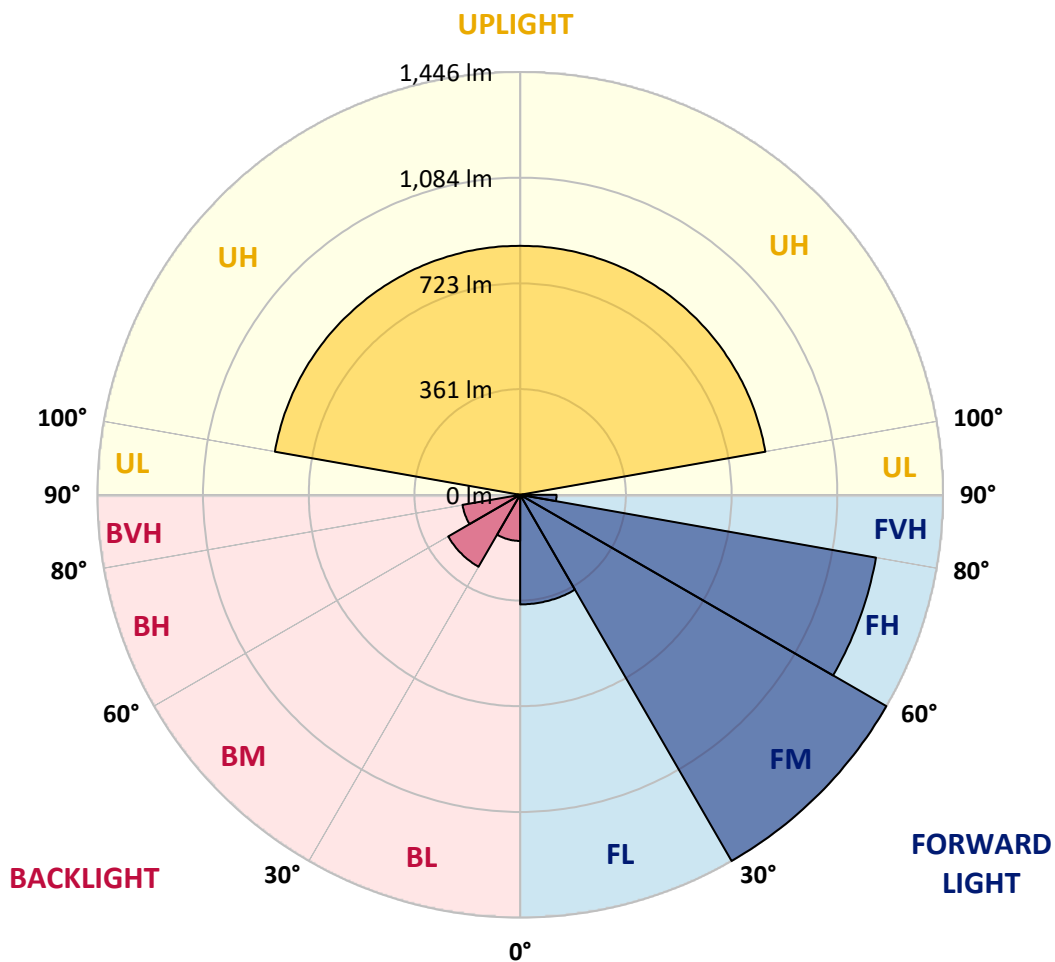
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	374.8	6.8			
FM (30°-60°)	1445.8	26.1			
FH (60°-80°)	1235.3	22.3			G1/1800
FVH (80°-90°)	124.2	2.2			G2/225
BL (0°-30°)	157.6	2.8	B1/500		
BM (30°-60°)	284.3	5.1	B1/1000		
BH (60°-80°)	200.2	3.6	B1/500		G1/500
BVH (80°-90°)	16.8	0.3			G1/100
UL (90°-100°)	9.2	0.2		U1/10	
UH (100°-180°)	851.5	15.4		U4/1000	

BUG Rating: B1-U5-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0
2.5°	1312.5	1304.8	1295.1	1278.3	1263.5	1242.2	1237.0	1210.5	1193.7	1197.6	1167.2
5°	1232.5	1227.9	1204.0	1166.6	1142.0	1093.6	1065.7	1051.6	1011.5	1006.3	995.4
7.5°	1120.1	1106.5	1067.7	1021.2	979.2	943.7	899.1	864.9	834.5	815.8	782.9
10°	1023.8	1009.5	967.7	910.7	860.4	810.6	774.5	730.0	686.7	653.1	626.6
12.5°	977.3	961.7	912.7	846.8	790.6	728.6	677.6	633.7	609.8	593.0	571.1
15°	995.4	972.8	913.9	835.2	765.4	699.5	645.3	598.1	569.7	543.8	518.1
17.5°	1068.4	1040.6	973.4	878.5	781.5	696.4	618.8	565.2	520.0	481.2	446.4
20°	1193.7	1173.0	1075.5	942.4	816.5	698.3	596.1	525.8	470.9	421.8	375.3
22.5°	1340.3	1309.3	1213.7	1029.0	861.0	709.9	582.0	492.8	427.6	361.7	311.4
25°	1494.0	1470.2	1343.5	1145.2	929.5	733.7	571.1	463.7	376.6	303.5	248.0
27.5°	1618.0	1596.7	1471.4	1257.0	992.2	754.5	554.8	435.9	335.9	248.0	186.7
30°	1719.4	1701.4	1570.2	1348.7	1068.4	761.5	532.2	403.7	290.7	200.2	154.4
32.5°	1833.1	1813.0	1665.2	1412.7	1102.6	755.0	506.5	373.3	254.5	177.0	132.4
35°	1957.9	1934.6	1771.2	1481.8	1131.1	732.5	484.5	351.3	237.1	160.9	117.6
37.5°	2069.0	2054.1	1866.8	1550.3	1163.3	695.0	463.2	327.5	225.5	149.2	105.9
40°	2155.4	2151.6	1972.7	1607.1	1188.5	667.9	445.6	308.7	210.6	144.6	102.0
42.5°	2225.2	2223.9	2059.3	1658.1	1194.9	643.9	432.2	291.9	197.0	133.7	104.0
45°	2292.5	2291.8	2143.2	1729.1	1199.5	645.3	421.8	281.6	185.4	126.6	98.2
47.5°	2356.3	2366.0	2231.0	1828.1	1247.3	667.2	417.9	272.0	176.3	118.8	93.1
50°	2463.6	2453.9	2369.9	1961.7	1324.1	709.9	411.4	263.6	167.9	111.7	87.9
52.5°	2667.1	2656.1	2581.1	2140.6	1408.1	753.8	403.1	252.0	158.2	104.0	82.0
55°	2915.7	2930.6	2826.6	2358.3	1522.4	790.6	394.1	236.4	145.3	95.0	78.2
57.5°	3061.7	3049.5	2930.6	2483.6	1592.9	809.4	388.2	218.3	125.3	87.1	74.3
59°	3096.0	3075.3	2913.1	2504.9	1611.6	800.3	384.9	201.0	114.9	83.4	72.3
60°	3092.8	3067.5	2885.4	2491.4	1616.8	789.3	379.8	190.5	109.1	81.4	71.8
62.5°	3026.2	2986.8	2727.7	2327.3	1544.5	734.5	358.5	166.0	101.4	78.8	67.8
65°	2875.0	2819.5	2463.0	2006.9	1378.4	625.3	310.1	156.9	103.3	77.5	65.3
67.5°	2614.1	2569.5	2122.5	1660.7	1098.8	505.0	268.1	153.1	105.9	78.8	61.4
70°	2126.4	2088.3	1656.1	1243.4	822.8	401.7	243.5	151.2	104.0	75.5	58.1
72.5°	1499.9	1434.0	1100.6	870.6	521.9	323.0	211.2	142.7	101.4	73.0	53.0
75°	912.7	925.0	699.5	634.3	329.4	221.5	166.0	120.1	89.8	65.3	47.8
77.5°	602.0	601.3	516.1	447.6	167.4	137.6	117.6	92.3	70.3	53.6	41.3
80°	408.2	412.7	374.6	305.5	93.1	82.6	76.9	67.1	51.7	40.7	34.2
82.5°	251.3	252.0	290.1	228.7	62.1	52.3	49.0	45.3	36.8	31.6	26.5
85°	87.1	89.1	101.4	161.4	42.0	34.2	34.2	31.6	27.8	21.3	17.4
87.5°	37.5	36.8	43.9	43.9	20.8	17.4	16.2	16.2	15.5	11.6	9.7
90°	7.5	6.8	6.8	8.4	10.2	11.9	11.7	12.4	12.4	11.2	9.4
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



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CATALOG NUMBER: ISW-AF-800-LED-E1-SLR-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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0
2.5°	1158.2	1151.1	1131.1	1125.8	1132.3	1119.4	1116.1	1112.9	1089.0	1101.3	1087.1
5°	968.2	966.3	925.6	934.0	925.6	911.4	905.6	919.1	895.3	900.4	903.7
7.5°	744.2	736.4	709.2	691.2	680.2	670.5	658.2	638.2	653.7	650.5	675.0
10°	603.9	587.1	570.3	545.2	531.0	517.4	503.2	495.4	477.3	475.5	467.0
12.5°	553.5	529.7	508.4	486.4	471.5	444.4	421.8	407.7	396.0	377.8	364.4
15°	486.4	466.4	438.6	417.3	394.1	369.5	347.6	329.4	321.1	304.3	296.5
17.5°	418.6	388.2	354.7	333.3	301.0	275.8	257.7	246.0	233.8	223.5	214.4
20°	337.1	297.8	261.6	234.5	209.2	184.7	176.3	162.1	156.9	153.1	156.3
22.5°	256.5	215.8	178.2	157.7	144.1	137.6	130.4	127.9	125.9	125.3	126.6
25°	187.9	153.7	135.6	127.9	122.7	118.8	116.3	114.4	113.1	112.4	113.1
27.5°	145.3	127.2	118.1	113.1	109.1	106.6	105.3	103.3	102.7	102.0	102.7
30°	125.9	116.3	109.9	104.7	100.1	95.6	93.6	93.1	93.6	94.3	93.6
32.5°	109.9	102.7	95.6	91.1	87.9	85.2	85.2	84.0	84.0	85.9	86.6
35°	99.5	92.3	87.1	81.4	77.5	74.9	73.0	71.8	72.3	72.3	74.3
37.5°	91.1	85.9	81.4	76.3	72.3	69.8	68.5	67.1	66.6	65.8	65.8
40°	85.2	82.0	78.2	73.0	69.1	66.6	65.3	64.0	63.3	62.6	62.6
42.5°	85.2	78.8	76.3	71.8	67.1	64.6	62.6	61.4	60.1	60.1	60.1
45°	93.6	80.8	76.3	71.1	66.6	63.3	61.4	59.4	58.1	58.1	57.5
47.5°	91.1	90.4	77.5	71.1	67.1	63.3	60.7	58.7	57.5	56.9	56.2
50°	86.6	94.3	86.6	73.0	67.1	62.6	60.1	58.1	56.2	55.5	55.5
52.5°	84.0	87.9	89.8	75.5	67.8	62.6	59.4	57.5	56.2	54.9	54.3
55°	77.5	82.6	85.9	74.3	67.8	61.4	58.1	56.2	54.3	53.6	53.0
57.5°	71.1	74.9	82.6	74.3	65.8	60.7	56.9	54.3	53.0	52.3	51.7
59°	69.1	69.1	73.6	76.3	64.6	60.1	56.2	53.6	52.3	51.7	50.3
60°	67.1	67.1	69.8	78.2	64.0	59.4	55.5	53.0	51.0	51.0	50.3
62.5°	64.6	62.6	64.0	73.0	62.1	58.1	54.3	51.7	49.8	49.8	49.0
65°	61.4	58.7	58.7	60.7	58.1	55.5	53.0	50.3	47.8	47.8	48.5
67.5°	58.1	55.5	54.9	54.9	53.6	53.0	50.3	47.8	46.5	46.5	46.5
70°	53.6	51.7	51.0	49.8	49.8	49.0	47.1	45.3	43.9	44.6	43.9
72.5°	48.5	47.1	45.8	45.8	45.3	44.6	42.6	41.3	40.7	41.3	41.3
75°	43.3	41.3	41.3	40.1	40.1	39.3	37.5	36.8	36.2	36.8	37.5
77.5°	36.8	35.6	34.9	34.9	34.9	34.9	32.2	31.6	31.6	33.0	33.0
80°	30.4	29.7	29.0	29.0	29.0	28.5	27.1	26.5	26.5	27.1	27.8
82.5°	23.3	22.0	22.0	22.5	23.3	23.3	21.3	20.0	20.0	21.3	22.5
85°	15.5	15.5	15.5	16.2	16.2	16.8	15.5	13.6	14.2	14.8	16.8
87.5°	8.4	9.1	8.4	7.7	9.1	8.4	8.4	7.7	8.4	9.1	9.7
90°	9.4	9.4	9.8	10.2	9.5	10.2	9.2	8.8	7.5	7.5	9.2
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: P271856

CATALOG NUMBER: ISW-AF-800-LED-E1-SLR-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: P271856

CATALOG NUMBER: ISW-AF-800-LED-E1-SLR-7027-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0
2.5°	1100.1	1089.0	1083.3	1105.8	1103.8	1084.5	1084.5	1098.1	1098.8	1087.1	1100.6
5°	907.6	896.6	906.9	897.9	903.0	902.3	910.2	895.9	901.7	896.6	884.3
7.5°	673.1	695.0	706.7	691.8	710.5	720.2	706.7	720.2	698.9	681.5	698.3
10°	463.2	487.7	483.2	507.0	516.1	521.3	531.0	518.7	503.8	499.3	487.0
12.5°	359.1	353.9	352.0	361.7	367.6	359.1	366.3	358.5	350.8	337.1	336.5
15°	281.0	272.5	266.8	255.7	252.0	253.8	257.1	257.1	241.6	242.3	248.0
17.5°	213.2	211.2	206.7	197.6	191.9	193.8	193.1	189.9	187.9	189.3	196.4
20°	160.2	158.2	160.9	163.4	161.4	162.1	159.6	156.3	155.0	156.3	157.7
22.5°	126.6	129.2	132.4	136.4	136.9	140.1	139.6	140.1	137.6	136.4	133.1
25°	115.6	116.9	114.9	115.6	115.6	118.8	118.1	118.1	115.6	114.9	115.6
27.5°	102.0	101.4	101.4	102.7	102.7	104.7	105.9	104.7	102.0	101.4	102.0
30°	94.3	93.6	93.1	93.6	93.1	93.6	95.0	95.0	93.6	91.8	92.3
32.5°	86.6	86.6	85.9	86.6	85.9	85.9	87.1	85.2	85.2	84.6	84.6
35°	76.3	77.5	78.8	79.4	79.4	79.4	80.8	78.8	78.2	77.5	77.5
37.5°	65.8	67.1	71.1	73.0	73.6	74.9	75.5	74.3	73.0	71.8	70.3
40°	62.6	62.6	64.0	66.6	69.1	69.8	71.1	69.1	68.5	66.6	64.6
42.5°	60.1	60.7	60.7	61.4	62.1	63.3	65.3	63.3	62.1	60.7	58.7
45°	58.1	58.1	58.1	58.1	57.5	57.5	58.1	56.9	56.2	55.5	55.5
47.5°	56.9	56.2	55.5	54.9	54.3	53.6	53.6	52.3	52.3	52.3	52.3
50°	55.5	54.3	53.6	53.0	51.7	51.7	51.7	50.3	49.8	49.8	50.3
52.5°	53.6	53.0	52.3	51.7	51.0	50.3	50.3	49.0	48.5	48.5	48.5
55°	53.0	52.3	51.0	50.3	49.8	50.3	49.8	49.0	47.8	47.8	47.8
57.5°	51.0	51.7	51.0	49.8	49.8	49.8	49.8	48.5	47.8	46.5	47.1
59°	50.3	51.0	50.3	49.8	49.0	49.8	49.8	47.8	47.1	46.5	46.5
60°	49.8	50.3	49.8	49.0	49.0	49.8	49.0	48.5	47.1	45.3	45.8
62.5°	49.0	49.0	48.5	48.5	47.8	48.5	47.8	46.5	45.3	43.9	43.3
65°	47.8	47.8	47.1	47.1	46.5	46.5	46.5	45.3	43.9	42.6	42.6
67.5°	47.1	46.5	45.8	45.8	45.3	45.3	45.3	43.9	42.0	41.3	40.7
70°	44.6	43.9	43.9	43.3	42.6	43.3	43.9	42.0	40.1	38.8	38.1
72.5°	42.0	41.3	41.3	40.7	40.7	41.3	42.0	40.1	37.5	36.2	35.6
75°	38.1	37.5	37.5	37.5	37.5	38.8	38.8	36.8	34.9	33.0	31.6
77.5°	33.0	33.6	33.6	33.6	33.6	34.9	34.9	33.6	31.6	30.4	28.5
80°	28.5	28.5	29.0	29.0	29.7	29.7	29.0	28.5	27.8	26.5	24.0
82.5°	24.0	24.0	24.0	24.0	24.0	23.3	22.0	23.3	23.3	22.0	20.0
85°	18.8	18.8	18.8	19.3	19.3	17.4	15.5	15.5	17.4	16.8	15.5
87.5°	11.0	11.0	11.6	13.6	12.3	11.6	9.7	10.3	9.7	11.0	9.1
90°	11.4	10.8	10.8	8.5	8.2	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



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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°

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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

160°	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	110°	160°
1268.0	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0	110°	79.1
1102.0	1104.6	1110.3	1108.4	1129.7	1123.3	1138.2	1158.2	1176.9	1167.9	1170.4	112.5°	111.4
906.2	909.4	884.9	899.8	921.8	912.7	909.4	939.2	932.1	965.7	937.9	115°	150.2
671.1	663.4	651.7	645.9	629.8	629.8	660.2	673.7	671.8	695.0	718.9	117.5°	189.5
471.5	462.4	448.3	444.4	460.5	468.3	481.9	495.4	513.5	540.0	555.5	120°	225.3
346.3	343.1	346.3	355.9	370.8	381.7	402.4	426.3	446.4	467.7	488.3	122.5°	259.1
261.6	268.1	276.5	283.0	294.6	315.2	326.2	352.7	370.8	389.4	413.4	125°	291.9
203.5	207.4	209.2	211.9	221.5	236.4	236.4	263.6	287.5	312.0	332.0	127.5°	324.8
155.0	155.0	148.6	152.4	153.7	152.4	160.2	175.7	191.2	207.4	238.9	130°	357.3
129.9	125.9	124.1	123.3	124.1	126.6	131.2	136.9	139.6	146.6	158.9	132.5°	389.7
114.9	114.4	112.4	112.4	113.6	114.4	118.8	124.1	125.3	127.2	131.8	135°	421.0
101.4	102.7	104.7	104.0	104.7	105.9	109.1	113.6	116.3	116.9	120.1	137.5°	450.9
91.8	93.1	93.6	95.6	95.6	96.3	98.8	103.3	105.3	108.5	111.7	140°	479.0
85.2	85.9	86.6	85.9	86.6	86.6	89.8	94.3	96.8	98.8	100.8	142.5°	507.9
78.2	77.5	77.5	77.5	75.5	74.9	76.3	80.8	81.4	83.4	87.9	145°	535.4
69.8	67.8	66.6	66.6	66.6	67.1	70.3	74.9	75.5	77.5	81.4	147.5°	561.9
62.1	61.4	61.4	62.1	62.6	64.0	66.6	71.1	71.8	73.6	76.9	150°	582.0
58.1	58.1	58.1	58.7	59.4	60.1	63.3	67.8	69.1	71.1	74.9	152.5°	597.2
55.5	56.2	55.5	55.5	56.2	57.5	60.7	65.8	67.8	69.8	73.6	155°	614.4
53.6	53.6	53.6	54.3	54.3	55.5	59.4	64.6	65.8	68.5	74.3	157.5°	631.6
51.0	52.3	51.7	52.3	53.0	54.3	58.1	63.3	65.3	69.1	75.5	160°	645.3
49.8	49.8	49.8	50.3	51.7	52.3	55.5	61.4	64.0	69.1	79.4	162.5°	654.7
49.0	47.8	47.8	48.5	49.8	51.0	54.3	60.1	63.3	68.5	78.8	165°	663.5
48.5	46.5	45.8	46.5	47.8	48.5	52.3	58.1	62.6	66.6	76.3	167.5°	672.3
46.5	45.3	44.6	45.3	46.5	47.8	51.0	56.9	60.1	65.3	73.0	170°	679.2
45.8	43.9	43.9	44.6	45.8	46.5	49.8	55.5	58.7	65.8	74.9	172.5°	681.2
43.3	42.6	42.6	43.3	43.3	44.6	48.5	54.3	56.9	67.1	62.6	175°	683.1
41.3	41.3	41.3	41.3	42.0	42.6	47.1	53.0	54.3	58.1	53.6	177.5°	686.6
40.1	40.1	40.1	40.1	40.1	41.3	45.3	51.0	51.7	51.0	49.0	180°	687.0
37.5	37.5	37.5	37.5	38.1	38.8	42.6	47.8	47.8	46.5	46.5		
35.6	34.9	34.9	34.9	34.9	35.6	39.3	44.6	43.9	43.3	43.3		
31.6	31.6	31.6	31.6	31.6	31.6	35.6	40.7	40.1	39.3	38.8		
27.8	27.8	28.5	27.8	27.1	26.5	30.4	36.2	36.2	35.6	34.9		
24.0	23.3	24.0	23.3	22.0	22.0	25.2	30.4	31.0	30.4	29.0		
19.3	18.8	18.8	18.8	16.2	16.2	19.3	24.5	24.5	24.0	22.5		
14.8	14.2	13.6	12.9	11.0	11.0	13.6	18.1	18.8	16.2	15.5		
7.7	7.7	7.7	5.7	5.2	4.5	7.1	11.0	11.0	9.1	7.7		
7.4	6.8	5.9	4.9	4.9	4.9	5.9	7.5	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		

271856
 ISW-AF-800-LED-E1-SLR-7027-ULG

REPORT NUMBER: P271856
 CATALOG NUMBER: ISW-AF-800-LED-E1-SLR-7027-ULG

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°	1268.0	1268.0
104.0	100.6	97.2	97.2	97.2	100.6	104.0	111.4	118.8	125.1	2.5°	1186.6	1192.4
144.3	140.3	136.5	137.4	136.5	140.3	144.3	150.2	156.0	160.4	5°	958.5	981.2
185.5	183.1	180.6	180.6	180.6	183.1	185.5	189.5	193.3	195.8	7.5°	724.8	755.0
221.8	220.4	218.8	220.8	218.8	220.4	221.8	225.3	228.7	230.7	10°	580.7	601.3
256.2	255.7	255.2	258.2	255.2	255.7	256.2	259.1	262.0	264.0	12.5°	509.7	539.3
290.5	289.5	288.5	292.5	288.5	289.5	290.5	291.9	293.5	296.4	15°	437.3	469.6
322.9	322.9	322.9	323.9	322.9	322.9	322.9	324.8	326.8	329.8	17.5°	358.5	397.9
355.3	354.8	354.3	356.3	354.3	354.8	355.3	357.3	359.2	361.2	20°	273.8	312.6
385.7	386.2	386.7	388.7	386.7	386.2	385.7	389.7	393.5	395.1	22.5°	192.5	225.5
418.1	418.1	418.1	421.0	418.1	418.1	418.1	421.0	424.0	425.4	25°	140.1	155.0
450.5	449.5	448.5	451.5	448.5	449.5	450.5	450.9	451.5	453.5	27.5°	124.7	130.4
478.0	477.0	476.0	479.0	476.0	477.0	478.0	479.0	480.0	481.0	30°	116.9	120.8
507.5	506.5	505.5	508.4	505.5	506.5	507.5	507.9	508.4	509.9	32.5°	105.3	109.1
534.0	534.9	535.9	539.8	535.9	534.9	534.0	535.4	536.8	538.4	35°	92.3	97.6
560.5	560.9	561.4	564.3	561.4	560.9	560.5	561.9	563.3	563.3	37.5°	85.9	89.8
582.0	581.6	581.0	584.0	581.0	581.6	582.0	582.0	582.0	582.0	40°	82.0	82.6
596.7	596.7	596.7	599.7	596.7	596.7	596.7	597.2	597.7	598.2	42.5°	78.8	78.8
613.5	613.5	613.5	617.3	613.5	613.5	613.5	614.4	615.4	616.9	45°	76.9	78.8
631.1	631.1	631.1	634.0	631.1	631.1	631.1	631.6	632.0	633.0	47.5°	78.2	86.6
646.8	647.3	647.8	650.7	647.8	647.3	646.8	645.3	643.8	643.4	50°	87.9	85.2
656.6	656.6	656.6	660.5	656.6	656.6	656.6	654.7	652.7	650.7	52.5°	89.8	80.1
663.5	664.5	665.5	668.4	665.5	664.5	663.5	663.5	663.5	662.1	55°	82.0	76.9
671.3	672.8	674.3	677.2	674.3	672.8	671.3	672.3	673.3	674.3	57.5°	73.6	67.1
679.2	680.6	682.2	685.0	682.2	680.6	679.2	679.2	679.2	679.7	59°	65.8	62.1
682.2	683.1	684.1	686.0	684.1	683.1	682.2	681.2	680.2	678.7	60°	61.4	60.1
684.1	684.6	685.0	687.0	685.0	684.6	684.1	683.1	682.2	680.2	62.5°	56.2	57.5
687.0	689.4	692.0	693.9	692.0	689.4	687.0	686.6	686.0	685.0	65°	52.3	54.9
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	67.5°	50.3	52.3
										70°	47.1	48.5
										72.5°	43.9	44.6
										75°	39.3	40.1
										77.5°	34.9	34.9
										80°	28.5	28.5
										82.5°	22.0	21.3
										85°	14.2	13.6
										87.5°	6.5	5.2
										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

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<u>tinued):</u>										<u>CANDELA DISTRIBUTION (continued):</u>		
225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
1268.0	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0	110°	100.1	106.0	111.9
1221.4	1239.5	1253.8	1251.2	1281.5	1299.6	1302.3	1321.0	1339.0	112.5°	131.5	135.9	140.3
999.3	1024.4	1049.0	1067.1	1114.9	1154.3	1184.7	1216.9	1255.0	115°	164.9	167.8	170.8
796.4	817.7	857.8	886.9	937.2	983.1	1027.8	1078.8	1122.1	117.5°	198.3	199.7	201.2
624.0	651.1	688.6	742.8	788.0	840.4	896.6	944.9	1017.3	120°	232.6	235.5	238.5
560.6	577.5	608.4	634.3	690.4	746.0	809.4	875.8	942.4	122.5°	266.0	269.0	271.8
495.4	525.1	554.3	591.6	640.9	701.5	769.9	841.6	916.6	125°	299.3	301.8	304.3
432.2	471.5	503.2	543.8	598.8	675.6	764.7	853.9	941.7	127.5°	332.7	333.2	333.7
354.7	391.4	447.0	488.3	560.0	656.2	770.6	893.9	1012.7	130°	363.2	364.2	365.1
279.0	318.4	381.7	443.1	521.9	645.9	793.8	959.9	1118.7	132.5°	396.5	397.1	397.5
199.6	253.2	315.8	393.4	488.9	639.4	825.5	1041.2	1255.0	135°	427.0	428.0	428.9
149.2	186.7	262.9	347.6	452.2	627.8	859.0	1116.9	1348.1	137.5°	455.4	457.3	459.3
133.1	159.6	209.2	298.5	406.9	605.3	884.3	1188.5	1432.7	140°	481.9	484.8	487.8
116.3	136.9	176.3	252.0	366.3	570.3	895.3	1226.6	1491.5	142.5°	511.3	513.3	515.3
102.0	121.5	161.4	233.8	345.6	531.0	893.4	1264.7	1565.0	145°	539.8	540.3	540.8
93.1	109.9	155.0	229.2	329.4	494.8	895.3	1326.1	1674.2	147.5°	563.3	563.9	564.3
85.9	105.3	149.8	219.6	321.6	474.8	903.0	1380.3	1768.0	150°	582.0	582.0	582.0
85.9	104.0	136.9	206.0	317.8	476.7	906.2	1422.4	1837.7	152.5°	598.7	598.7	598.7
90.4	97.6	127.2	198.3	320.3	490.9	902.3	1465.0	1905.5	155°	618.3	617.3	616.3
85.9	91.1	120.8	197.0	320.3	501.3	913.9	1518.0	1994.7	157.5°	634.0	633.6	633.0
81.4	84.6	118.8	195.1	313.9	511.0	961.7	1616.8	2110.8	160°	642.8	642.8	642.8
75.5	79.4	116.3	191.9	306.8	523.3	1046.4	1782.8	2303.4	162.5°	648.8	649.7	650.7
68.5	76.3	112.4	186.7	302.3	545.2	1132.9	1950.7	2532.7	165°	660.5	660.5	660.5
65.8	73.0	103.3	174.5	297.8	569.1	1225.4	2111.6	2738.8	167.5°	675.3	673.8	672.3
64.0	70.3	95.6	165.4	293.8	580.7	1253.1	2172.9	2818.3	170°	680.2	679.2	678.2
62.6	69.1	91.1	157.7	289.3	581.3	1273.2	2196.2	2829.8	172.5°	677.2	677.2	677.2
60.7	66.6	82.0	141.4	275.2	580.7	1275.1	2211.0	2796.2	175°	678.2	677.7	677.2
57.5	64.0	82.6	133.1	249.3	553.5	1194.9	2139.3	2662.6	177.5°	684.1	683.1	682.2
54.9	62.1	87.1	134.9	222.2	483.7	1045.1	1916.4	2376.4	180°	687.0	687.0	687.0
51.0	60.7	91.1	139.6	214.4	401.7	790.6	1565.0	1990.1				
47.1	60.1	94.3	142.7	206.0	330.8	547.8	1109.7	1489.5				
42.6	54.9	85.9	121.5	170.5	240.3	352.7	726.0	1027.0				
36.8	43.9	62.6	85.2	125.3	167.9	208.7	438.6	671.8				
30.4	33.0	44.6	54.9	83.4	99.5	115.6	247.4	469.6				
22.5	23.3	30.4	34.9	47.1	54.9	69.1	151.8	380.4				
12.9	14.8	20.8	23.3	28.5	34.9	45.3	96.8	298.5				
5.2	6.5	12.3	13.6	15.5	19.3	25.2	56.2	93.1				
6.8	6.8	6.8	7.8	8.8	8.8	8.8	7.8	6.8				
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				

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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°	1268.0	1268.0	1268.0	1268.0
142.8	145.3	146.2	147.2	146.7	146.2	145.3	144.3	2.5°	1357.1	1370.6	1382.3	1391.4
173.2	175.7	177.1	178.7	177.1	175.7	174.7	173.7	5°	1295.7	1327.3	1365.5	1397.9
204.2	207.1	209.0	211.0	208.6	206.1	205.2	204.2	7.5°	1186.6	1226.6	1288.6	1326.8
239.9	241.5	243.4	245.3	242.9	240.5	239.5	238.5	10°	1083.3	1142.0	1209.8	1264.7
272.8	273.8	275.8	277.8	275.3	272.8	271.8	270.9	12.5°	1012.7	1085.8	1150.4	1211.7
305.7	307.2	308.2	309.2	306.7	304.3	304.3	304.3	15°	993.4	1067.7	1125.8	1182.1
336.1	338.6	339.1	339.6	339.6	339.6	339.1	338.6	17.5°	1032.2	1106.5	1156.2	1190.4
367.6	370.0	372.0	374.0	374.0	374.0	373.0	372.0	20°	1123.3	1202.7	1234.5	1231.8
400.5	403.4	405.9	408.3	407.3	406.3	406.3	406.3	22.5°	1247.9	1331.3	1331.3	1305.5
431.8	434.8	437.3	439.7	439.2	438.7	440.2	441.7	25°	1412.7	1472.7	1439.7	1390.7
461.8	464.2	465.2	466.2	466.7	467.2	469.6	472.1	27.5°	1529.5	1585.8	1528.3	1447.5
489.3	490.7	491.7	492.7	493.7	494.7	497.1	499.5	30°	1626.4	1667.8	1594.9	1497.3
516.3	517.2	520.2	523.2	523.2	523.2	523.6	524.1	32.5°	1711.7	1742.0	1645.9	1549.6
543.3	545.7	548.7	551.6	551.1	550.6	549.1	547.7	35°	1813.8	1824.7	1698.9	1596.1
566.8	569.3	571.7	574.2	574.6	575.2	573.7	572.2	37.5°	1926.9	1935.8	1775.1	1647.1
584.0	586.0	587.4	588.9	590.4	591.8	593.3	594.8	40°	2059.8	2027.6	1831.3	1694.2
599.2	599.7	601.1	602.7	604.6	606.5	609.1	611.5	42.5°	2141.9	2089.0	1871.9	1718.9
615.4	614.4	616.9	619.3	621.8	624.2	625.2	626.2	45°	2206.5	2134.1	1890.7	1733.0
632.6	632.0	634.0	636.0	637.0	638.0	638.0	638.0	47.5°	2286.0	2200.7	1923.6	1758.9
644.4	645.8	648.8	651.7	650.2	648.8	648.3	647.8	50°	2390.6	2293.0	2006.9	1831.8
652.7	654.7	656.6	658.5	658.1	657.6	656.6	655.7	52.5°	2605.1	2484.3	2156.8	1959.1
660.1	659.5	662.1	664.5	665.9	667.4	666.5	665.5	55°	2851.8	2737.5	2396.4	2169.0
668.9	665.5	668.4	671.3	673.3	675.3	675.3	675.3	57.5°	3049.5	2972.6	2610.3	2358.9
675.7	673.3	674.8	676.2	678.7	681.2	682.2	683.1	59°	3122.4	3089.5	2761.4	2519.7
676.7	676.2	677.7	679.2	680.2	681.2	682.2	683.1	60°	3149.5	3177.9	2841.5	2618.0
677.2	677.2	679.7	682.2	682.6	683.1	682.2	681.2	62.5°	3168.3	3291.7	3101.8	2911.1
681.6	681.2	683.6	686.0	687.0	688.0	686.6	685.0	65°	3129.5	3310.4	3207.1	3090.1
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	67.5°	2960.9	3177.3	3157.4	3054.6
								70°	2616.0	2857.0	2926.7	2780.7
								72.5°	1968.2	2267.2	2647.7	2419.0
								75°	1282.2	1558.6	2260.8	2072.1
								77.5°	802.8	972.8	1612.9	1451.4
								80°	534.2	625.3	1023.8	932.1
								82.5°	401.7	443.1	704.0	662.1
								85°	211.9	270.0	547.8	694.4
								87.5°	79.4	88.6	412.1	620.8
								90°	6.8	6.8	8.5	8.8
								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

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ULG

CANDELA DISTRIBUTION (continued):

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
1268.0	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0	110°	114.8	113.8	115.3	116.8	117.8
1399.1	1410.7	1417.9	1412.7	1421.1	1422.9	1413.9	112.5°	144.3	144.3	145.3	146.2	146.7
1424.9	1457.2	1480.5	1496.7	1503.0	1509.0	1506.3	115°	174.7	173.7	174.7	175.7	177.1
1377.1	1426.9	1470.2	1499.9	1510.2	1518.0	1510.8	117.5°	205.2	204.2	205.2	206.1	208.6
1324.1	1375.8	1416.5	1446.2	1445.6	1453.4	1439.7	120°	238.5	238.5	239.5	240.5	242.9
1274.4	1324.8	1361.0	1359.7	1350.6	1328.1	1324.1	122.5°	271.8	270.9	271.8	272.8	275.3
1235.0	1261.5	1270.6	1268.6	1242.7	1229.9	1227.9	125°	304.3	304.3	304.3	304.3	306.7
1215.7	1214.4	1193.7	1171.1	1146.6	1145.2	1128.5	127.5°	340.5	338.6	339.1	339.6	339.6
1218.9	1176.9	1138.8	1100.1	1073.6	1067.7	1069.6	130°	373.0	372.0	373.0	374.0	374.0
1259.5	1185.2	1113.6	1074.2	1043.2	1034.1	1038.0	132.5°	407.3	406.3	406.3	406.3	407.3
1310.5	1211.2	1122.1	1061.9	1036.7	1025.8	1027.8	135°	442.7	441.7	440.2	438.7	439.2
1344.9	1240.8	1149.8	1075.5	1041.2	1031.0	1037.4	137.5°	473.0	472.1	469.6	467.2	466.7
1388.8	1281.5	1187.2	1110.3	1059.3	1045.8	1050.3	140°	501.5	499.5	497.1	494.7	493.7
1432.0	1325.4	1240.2	1153.0	1091.0	1065.7	1072.8	142.5°	526.0	524.1	523.6	523.2	523.2
1478.5	1376.6	1290.5	1211.2	1138.2	1098.8	1107.8	145°	549.7	547.7	549.1	550.6	551.1
1532.8	1435.9	1362.3	1289.2	1214.4	1181.5	1185.2	147.5°	574.2	572.2	573.7	575.2	574.6
1585.1	1494.0	1446.9	1392.6	1348.7	1298.3	1298.3	150°	598.7	594.8	593.3	591.8	590.4
1616.1	1569.6	1556.8	1541.2	1515.4	1479.1	1471.4	152.5°	616.3	611.5	609.1	606.5	604.6
1654.2	1659.3	1689.2	1720.2	1727.9	1692.4	1681.4	155°	629.2	626.2	625.2	624.2	621.8
1725.9	1780.2	1877.7	1962.3	1979.1	2008.3	1974.7	157.5°	642.8	638.0	638.0	638.0	637.0
1826.7	1926.9	2091.5	2229.8	2269.2	2271.7	2274.3	160°	653.7	647.8	648.3	648.8	650.2
1941.7	2085.1	2302.7	2467.5	2537.8	2556.6	2543.0	162.5°	661.5	655.7	656.6	657.6	658.1
2138.7	2268.5	2506.9	2684.5	2775.0	2818.8	2807.2	165°	669.3	665.5	666.5	667.4	665.9
2333.8	2495.2	2705.2	2880.2	2976.4	3025.5	3035.9	167.5°	681.2	675.3	675.3	675.3	673.3
2466.8	2618.0	2811.8	2973.2	3068.3	3127.0	3132.1	170°	688.0	683.1	682.2	681.2	678.7
2548.2	2686.4	2875.7	3017.8	3112.8	3162.4	3180.6	172.5°	688.0	683.1	682.2	681.2	680.2
2795.0	2820.0	2949.3	3043.0	3109.6	3132.1	3145.7	175°	686.0	681.2	682.2	683.1	682.6
2910.6	2805.2	2790.5	2848.5	2854.4	2839.5	2820.8	177.5°	689.0	685.0	686.6	688.0	687.0
2749.7	2503.7	2412.6	2404.9	2380.9	2371.3	2311.8	180°	687.0	687.0	687.0	687.0	687.0
2388.1	2033.4	1872.6	1785.3	1838.3	1836.3	1775.7						
2012.0	1651.1	1442.4	1317.1	1301.6	1298.9	1245.9						
1634.2	1295.7	1112.9	1052.3	979.2	957.2	966.3						
1178.1	925.0	886.2	932.7	938.5	921.8	910.2						
742.2	695.6	733.2	817.7	867.5	845.6	853.9						
618.8	547.8	550.3	639.4	673.1	678.2	660.8						
686.7	548.3	449.6	438.6	427.0	268.8	374.1						
618.8	424.4	250.0	206.0	126.6	73.0	75.5						
8.8	8.8	7.8	6.8	6.8	6.8	7.4						
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						



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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°	1268.0	1268.0	1268.0	1268.0	1268.0	1268.0
147.2	146.2	145.3	142.8	140.3	135.9	2.5°	1412.0	1399.6	1386.2	1368.1	1371.4	1349.3
178.7	177.1	175.7	173.2	170.8	167.8	5°	1486.2	1465.0	1435.9	1399.1	1364.9	1321.0
211.0	209.0	207.1	204.2	201.2	199.7	7.5°	1478.5	1444.4	1395.9	1340.3	1295.1	1231.8
245.3	243.4	241.5	239.9	238.5	235.5	10°	1412.0	1367.4	1328.1	1270.6	1211.7	1156.2
277.8	275.8	273.8	272.8	271.8	269.0	12.5°	1319.0	1293.8	1259.5	1216.2	1159.4	1102.6
309.2	308.2	307.2	305.7	304.3	301.8	15°	1217.7	1219.4	1198.9	1187.2	1158.8	1113.6
339.6	339.1	338.6	336.1	333.7	333.2	17.5°	1134.3	1153.6	1164.7	1182.7	1185.9	1163.9
374.0	372.0	370.0	367.6	365.1	364.2	20°	1078.8	1105.8	1140.1	1189.9	1242.2	1264.7
408.3	405.9	403.4	400.5	397.5	397.1	22.5°	1047.7	1081.3	1136.2	1226.6	1322.2	1379.7
439.7	437.3	434.8	431.8	428.9	428.0	25°	1041.9	1086.5	1163.3	1273.8	1397.9	1478.5
466.2	465.2	464.2	461.8	459.3	457.3	27.5°	1051.6	1109.7	1200.8	1326.8	1448.9	1565.7
492.7	491.7	490.7	489.3	487.8	484.8	30°	1082.5	1150.4	1249.9	1385.5	1512.2	1628.4
523.2	520.2	517.2	516.3	515.3	513.3	32.5°	1112.3	1196.3	1306.0	1438.5	1565.7	1681.4
551.6	548.7	545.7	543.3	540.8	540.3	35°	1160.1	1244.7	1357.1	1479.1	1602.6	1733.7
574.2	571.7	569.3	566.8	564.3	563.9	37.5°	1233.0	1307.3	1397.1	1510.8	1639.4	1775.1
588.9	587.4	586.0	584.0	582.0	582.0	40°	1337.0	1386.2	1444.4	1534.0	1657.5	1802.8
602.7	601.1	599.7	599.2	598.7	598.7	42.5°	1492.7	1503.0	1523.1	1569.6	1673.6	1835.1
619.3	616.9	614.4	615.4	616.3	617.3	45°	1693.7	1662.7	1645.2	1638.7	1709.7	1855.8
636.0	634.0	632.0	632.6	633.0	633.6	47.5°	1926.9	1866.0	1796.3	1762.7	1779.5	1888.7
651.7	648.8	645.8	644.4	642.8	642.8	50°	2230.4	2131.6	1994.7	1897.8	1889.3	1985.6
658.5	656.6	654.7	652.7	650.7	649.7	52.5°	2508.8	2379.6	2207.1	2092.8	2046.2	2166.4
664.5	662.1	659.5	660.1	660.5	660.5	55°	2771.7	2672.2	2477.2	2335.1	2318.9	2406.1
671.3	668.4	665.5	668.9	672.3	673.8	57.5°	3002.2	2916.3	2756.9	2571.5	2578.0	2662.6
676.2	674.8	673.3	675.7	678.2	679.2	59°	3121.8	3050.0	2902.2	2713.6	2727.7	2844.0
679.2	677.7	676.2	676.7	677.2	677.2	60°	3164.4	3104.4	2963.5	2804.7	2822.7	2943.5
682.2	679.7	677.2	677.2	677.2	677.7	62.5°	3161.1	3122.4	3020.4	2945.5	3037.8	3126.3
686.0	683.6	681.2	681.6	682.2	683.1	65°	2859.6	2800.7	2789.1	2920.3	3098.5	3183.9
687.0	687.0	687.0	687.0	687.0	687.0	67.5°	2274.3	2302.1	2412.6	2638.1	2937.1	3061.1
						70°	1689.2	1738.2	1885.5	2168.4	2579.2	2793.7
						72.5°	1242.2	1291.2	1426.9	1737.0	2121.9	2311.8
						75°	974.8	989.6	1087.1	1330.6	1672.4	1828.1
						77.5°	900.4	855.8	815.8	946.3	1127.8	1261.5
						80°	838.4	753.8	659.4	698.9	742.8	884.9
						82.5°	651.1	594.9	521.3	571.6	592.3	596.8
						85°	381.2	339.1	429.5	608.4	602.0	527.0
						87.5°	134.4	174.5	196.4	337.1	407.7	352.7
						90°	7.8	9.8	13.7	13.8	16.6	9.2
						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



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CANDELA DISTRIBUTION (continued):

355°	359°	360°		325°	330°	335°	340°	345°	350°	355°
1268.0	1268.0	1268.0	110°	100.1	92.7	85.4	79.1	72.7	69.7	66.7
1331.8	1313.8	1312.5	112.5°	131.5	125.1	118.8	111.4	104.0	100.6	97.2
1286.0	1245.4	1232.5	115°	164.9	160.4	156.0	150.2	144.3	140.3	136.5
1176.9	1129.7	1120.1	117.5°	198.3	195.8	193.3	189.5	185.5	183.1	180.6
1085.2	1032.8	1023.8	120°	232.6	230.7	228.7	225.3	221.8	220.4	218.8
1038.0	988.2	977.3	122.5°	266.0	264.0	262.0	259.1	256.2	255.7	255.2
1056.0	1001.3	995.4	125°	299.3	296.4	293.5	291.9	290.5	289.5	288.5
1123.9	1065.7	1068.4	127.5°	332.7	329.8	326.8	324.8	322.9	322.9	322.9
1240.2	1202.7	1193.7	130°	363.2	361.2	359.2	357.3	355.3	354.8	354.3
1392.6	1351.9	1340.3	132.5°	396.5	395.1	393.5	389.7	385.7	386.2	386.7
1522.4	1501.8	1494.0	135°	427.0	425.4	424.0	421.0	418.1	418.1	418.1
1616.1	1625.8	1618.0	137.5°	455.4	453.5	451.5	450.9	450.5	449.5	448.5
1691.1	1723.4	1719.4	140°	481.9	481.0	480.0	479.0	478.0	477.0	476.0
1768.0	1830.6	1833.1	142.5°	511.3	509.9	508.4	507.9	507.5	506.5	505.5
1824.7	1935.2	1957.9	145°	539.8	538.4	536.8	535.4	534.0	534.9	535.9
1897.8	2045.7	2069.0	147.5°	563.3	563.3	563.3	561.9	560.5	560.9	561.4
1953.4	2127.1	2155.4	150°	582.0	582.0	582.0	582.0	582.0	581.6	581.0
2007.5	2194.2	2225.2	152.5°	598.7	598.2	597.7	597.2	596.7	596.7	596.7
2052.1	2260.8	2292.5	155°	618.3	616.9	615.4	614.4	613.5	613.5	613.5
2102.6	2325.4	2356.3	157.5°	634.0	633.0	632.0	631.6	631.1	631.1	631.1
2192.9	2426.8	2463.6	160°	642.8	643.4	643.8	645.3	646.8	647.3	647.8
2387.3	2614.8	2667.1	162.5°	648.8	650.7	652.7	654.7	656.6	656.6	656.6
2668.3	2874.4	2915.7	165°	660.5	662.1	663.5	663.5	663.5	664.5	665.5
2921.6	3050.7	3061.7	167.5°	675.3	674.3	673.3	672.3	671.3	672.8	674.3
3025.5	3099.2	3096.0	170°	680.2	679.7	679.2	679.2	679.2	680.6	682.2
3101.8	3110.8	3092.8	172.5°	677.2	678.7	680.2	681.2	682.2	683.1	684.1
3143.1	3057.2	3026.2	175°	678.2	680.2	682.2	683.1	684.1	684.6	685.0
3035.2	2915.7	2875.0	177.5°	684.1	685.0	686.0	686.6	687.0	689.4	692.0
2723.9	2660.6	2614.1	180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0
2317.0	2156.8	2126.4								
1756.3	1545.1	1499.9								
1227.3	974.0	912.7								
806.8	625.3	602.0								
523.3	415.4	408.2								
364.9	272.5	251.3								
224.1	91.1	87.1								
69.8	42.0	37.5								
6.8	7.5	7.5								
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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