

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: P271846

Luminaire Tested: **ISW-AF-600-LED-E1-SLR-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271846
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-600-LED-E1-SLR-7027-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCUED 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: 4770.1 lumens
Efficiency: N/A
Efficacy: 94.6 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 - G1

Input Watts (W): 50.4
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

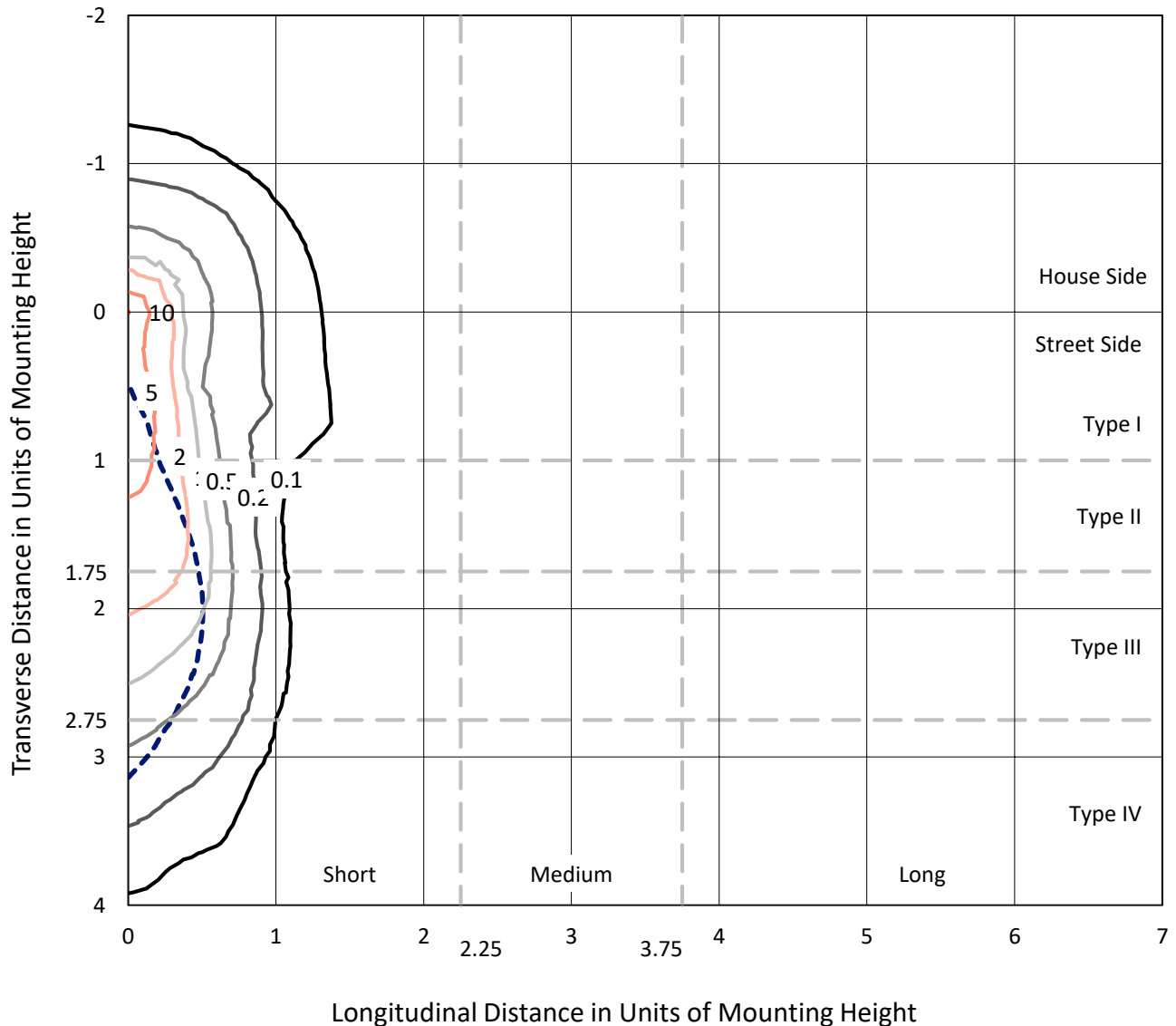


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

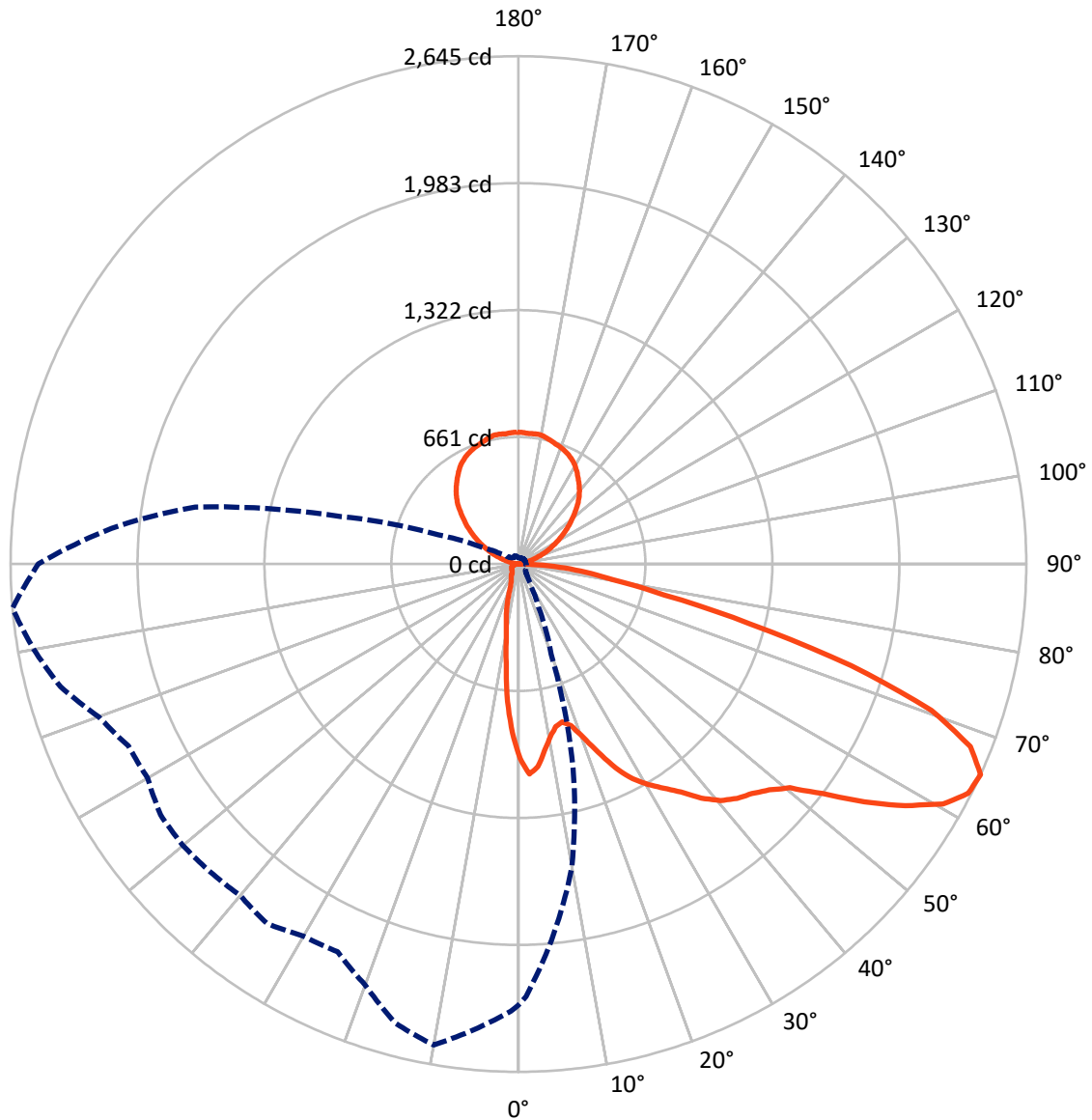


Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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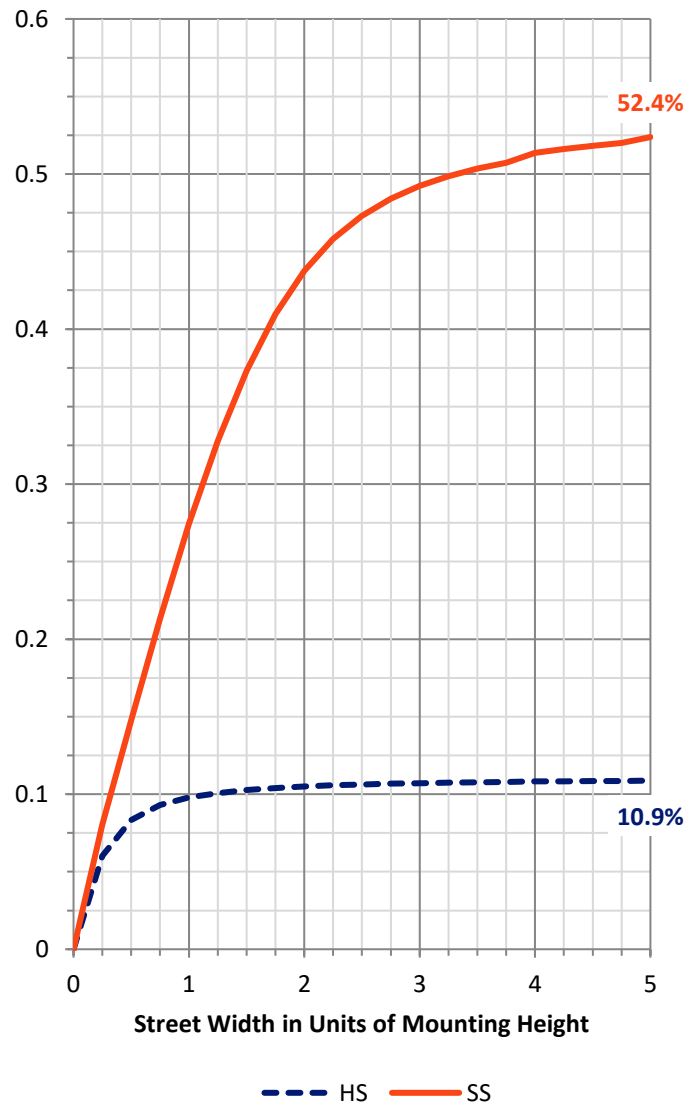
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	526.4	851.5	1377.9
	% Fixture	11.0	17.9	28.9
Street Side	Lumens	2540.6	851.6	3392.2
	% Fixture	53.3	17.9	71.1
Total	Lumens	3067.0	1703.1	4770.1
	% Fixture	64.3	35.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	1.6
10°-20°	144.4	3.0
20°-30°	205.9	4.3
30°-40°	298.7	6.3
40°-50°	427.3	9.0
50°-60°	656.1	13.8
60°-70°	759.4	15.9
70°-80°	387.4	8.1
80°-90°	112.8	2.4
90°-100°	9.2	0.2
100°-110°	56.3	1.2
110°-120°	163.0	3.4
120°-130°	268.1	5.6
130°-140°	330.6	6.9
140°-150°	338.2	7.1
150°-160°	284.9	6.0
160°-170°	187.6	3.9
170°-180°	65.0	1.4
0°-90°	3067.0	64.3
0°-180°	4770.1	100.0



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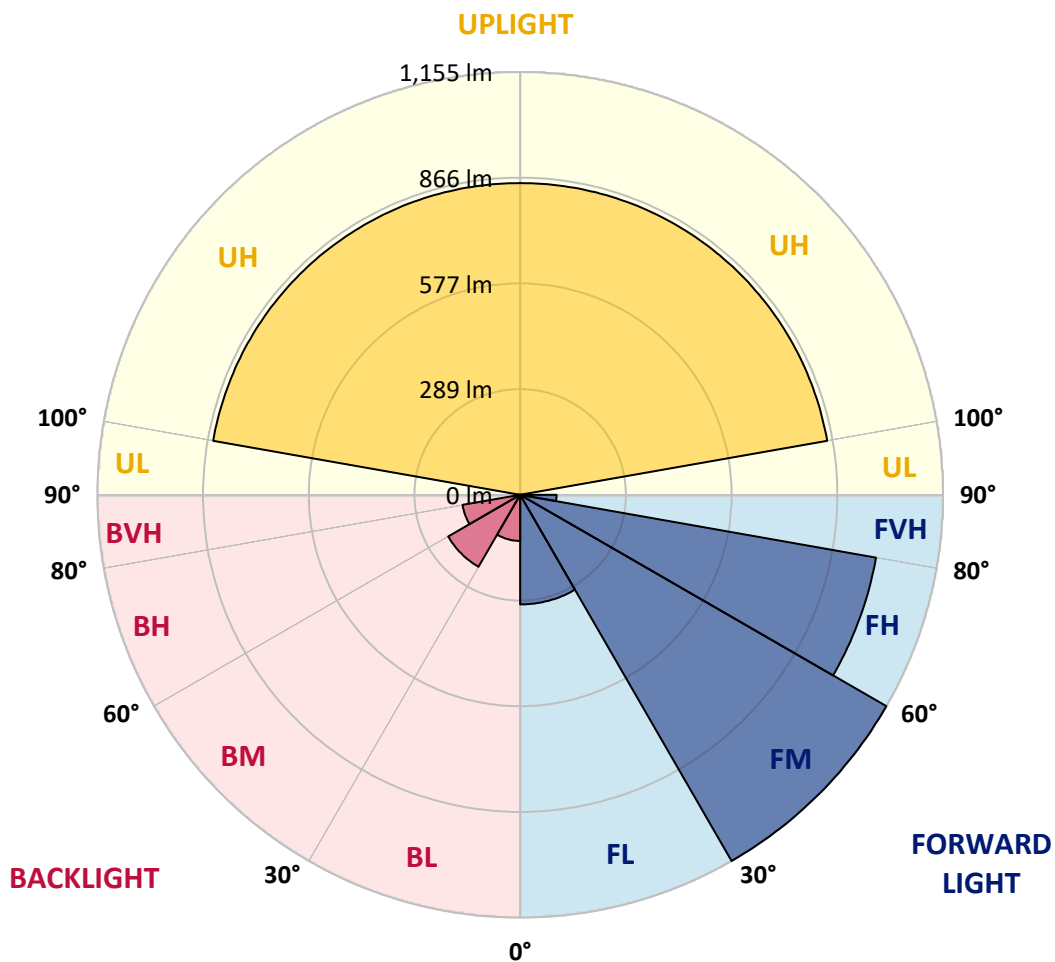
CATALOG NUMBER: ISW-AF-600-LED-E1-SLR-7027-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	299.4	6.3			
FM	(30°-60°)	1155.0	24.2			
FH	(60°-80°)	986.8	20.7			G1/1800
FVH	(80°-90°)	99.3	2.1			G1/100
BL	(0°-30°)	125.9	2.6	B1/500		
BM	(30°-60°)	227.1	4.8	B1/1000		
BH	(60°-80°)	160.0	3.4	B1/500		G1/500
BVH	(80°-90°)	13.5	0.3			G1/100
UL	(90°-100°)	9.2	0.2		U1/10	
UH	(100°-180°)	851.5	17.9		U4/1000	

BUG Rating: B1-U5-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9
2.5°	1048.5	1042.3	1034.6	1021.2	1009.3	992.3	988.1	967.0	953.6	956.7	932.4
5°	984.5	980.9	961.8	931.9	912.3	873.6	851.4	840.1	808.0	803.9	795.2
7.5°	894.8	883.9	853.0	815.8	782.2	753.9	718.3	691.0	666.7	651.7	625.4
10°	817.9	806.5	773.0	727.5	687.3	647.6	618.8	583.1	548.5	521.6	500.5
12.5°	780.8	768.3	729.2	676.5	631.6	582.0	541.3	506.3	487.2	473.7	456.2
15°	795.2	777.1	730.1	667.2	611.5	558.8	515.4	477.8	455.1	434.5	413.8
17.5°	853.5	831.3	777.7	701.8	624.4	556.3	494.3	451.5	415.4	384.5	356.5
20°	953.6	937.1	859.2	752.9	652.2	557.8	476.3	420.0	376.2	337.0	299.9
22.5°	1070.7	1046.0	969.6	821.9	687.8	567.1	465.0	393.6	341.5	289.0	248.7
25°	1193.6	1174.4	1073.4	914.9	742.6	586.2	456.2	370.6	300.8	242.5	198.2
27.5°	1292.6	1275.6	1175.5	1004.1	792.7	602.8	443.2	348.4	268.3	198.2	149.1
30°	1373.6	1359.1	1254.4	1077.4	853.5	608.4	425.2	322.5	232.2	160.0	123.3
32.5°	1464.5	1448.4	1330.3	1128.5	880.9	603.2	404.6	298.2	203.3	141.4	105.8
35°	1563.9	1545.4	1414.9	1183.8	903.5	585.2	387.0	280.7	189.5	128.5	94.0
37.5°	1652.8	1640.9	1491.3	1238.4	929.4	555.2	370.0	261.7	180.1	119.1	84.6
40°	1721.9	1718.9	1575.9	1283.9	949.5	533.5	356.1	246.7	168.3	115.6	81.6
42.5°	1777.7	1776.7	1645.1	1324.6	954.6	514.5	345.2	233.2	157.5	106.8	83.0
45°	1831.4	1830.8	1712.1	1381.3	958.2	515.4	337.0	224.9	148.1	101.1	78.4
47.5°	1882.4	1890.1	1782.2	1460.4	996.4	533.1	333.9	217.2	140.9	95.0	74.3
50°	1968.1	1960.3	1893.3	1567.1	1057.8	567.1	328.7	210.6	134.2	89.3	70.2
52.5°	2130.6	2121.9	2062.0	1710.0	1124.9	602.2	322.0	201.2	126.4	83.0	65.6
55°	2329.2	2341.2	2258.1	1883.9	1216.2	631.6	314.8	188.8	116.2	75.9	62.4
57.5°	2445.9	2436.1	2341.2	1984.1	1272.4	646.6	310.2	174.5	100.1	69.7	59.4
59°	2473.2	2456.8	2327.1	2001.2	1287.5	639.3	307.5	160.4	91.9	66.6	57.9
60°	2470.7	2450.6	2305.1	1990.3	1291.7	630.6	303.4	152.3	87.2	64.9	57.3
62.5°	2417.5	2386.1	2179.1	1859.2	1233.8	586.8	286.4	132.6	80.9	62.9	54.2
65°	2296.8	2252.4	1967.6	1603.3	1101.2	499.5	247.8	125.4	82.6	61.9	52.1
67.5°	2088.3	2052.6	1695.6	1326.7	877.7	403.5	214.2	122.3	84.6	62.9	49.0
70°	1698.8	1668.3	1323.0	993.3	657.4	321.0	194.6	120.7	83.0	60.4	46.4
72.5°	1198.2	1145.6	879.4	695.6	416.9	258.0	168.7	114.1	80.9	58.3	42.3
75°	729.2	738.9	558.8	506.7	263.1	177.0	132.6	96.0	71.8	52.1	38.2
77.5°	481.0	480.4	412.3	357.5	133.7	110.0	94.0	73.8	56.2	42.8	33.0
80°	326.2	329.8	299.2	244.1	74.3	66.0	61.4	53.7	41.3	32.5	27.4
82.5°	200.7	201.2	231.8	182.6	49.6	41.8	39.3	36.1	29.5	25.3	21.2
85°	69.7	71.2	80.9	129.0	33.6	27.4	27.4	25.3	22.2	17.0	13.9
87.5°	29.9	29.5	35.1	35.1	16.5	13.9	12.8	12.8	12.4	9.3	7.7
90°	7.0	6.5	6.5	7.9	9.4	11.0	11.0	11.5	11.5	10.5	8.9
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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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°	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9
2.5°	925.3	919.5	903.5	899.5	904.5	894.3	891.7	889.1	870.0	879.8	868.4
5°	773.5	771.9	739.5	746.1	739.5	728.1	723.5	734.3	715.2	719.4	721.9
7.5°	594.5	588.3	566.7	552.2	543.4	535.6	525.8	509.8	522.3	519.6	539.3
10°	482.5	469.1	455.6	435.5	424.2	413.3	402.0	395.8	381.3	379.8	373.1
12.5°	442.2	423.1	406.1	388.6	376.7	355.0	337.0	325.5	316.3	301.9	291.1
15°	388.6	372.5	350.4	333.3	314.8	295.1	277.7	263.1	256.5	243.0	236.8
17.5°	334.3	310.2	283.2	266.3	240.5	220.4	205.9	196.5	186.8	178.5	171.3
20°	269.3	237.9	208.9	187.3	167.2	147.6	140.9	129.5	125.4	122.3	124.9
22.5°	204.8	172.4	142.4	125.9	115.1	110.0	104.2	102.1	100.6	100.1	101.1
25°	150.2	122.8	108.3	102.1	98.1	95.0	92.9	91.4	90.3	89.8	90.3
27.5°	116.2	101.7	94.4	90.3	87.2	85.1	84.1	82.6	82.0	81.6	82.0
30°	100.6	92.9	87.8	83.6	79.9	76.4	74.8	74.3	74.8	75.4	74.8
32.5°	87.8	82.0	76.4	72.8	70.2	68.1	68.1	67.0	67.0	68.6	69.2
35°	79.5	73.8	69.7	64.9	61.9	59.8	58.3	57.3	57.9	57.9	59.4
37.5°	72.8	68.6	64.9	60.8	57.9	55.8	54.7	53.7	53.2	52.6	52.6
40°	68.1	65.6	62.4	58.3	55.2	53.2	52.1	51.0	50.6	50.0	50.0
42.5°	68.1	62.9	60.8	57.3	53.7	51.7	50.0	49.0	48.0	48.0	48.0
45°	74.8	64.5	60.8	56.8	53.2	50.6	49.0	47.5	46.4	46.4	45.9
47.5°	72.8	72.2	61.9	56.8	53.7	50.6	48.5	46.9	45.9	45.5	44.8
50°	69.2	75.4	69.2	58.3	53.7	50.0	48.0	46.4	44.8	44.4	44.4
52.5°	67.0	70.2	71.8	60.4	54.2	50.0	47.5	45.9	44.8	43.8	43.4
55°	61.9	66.0	68.6	59.4	54.2	49.0	46.4	44.8	43.4	42.8	42.3
57.5°	56.8	59.8	66.0	59.4	52.6	48.5	45.5	43.4	42.3	41.8	41.3
59°	55.2	55.2	58.7	60.8	51.7	48.0	44.8	42.8	41.8	41.3	40.2
60°	53.7	53.7	55.8	62.4	51.0	47.5	44.4	42.3	40.7	40.7	40.2
62.5°	51.7	50.0	51.0	58.3	49.6	46.4	43.4	41.3	39.7	39.7	39.3
65°	49.0	46.9	46.9	48.5	46.4	44.4	42.3	40.2	38.2	38.2	38.6
67.5°	46.4	44.4	43.8	43.8	42.8	42.3	40.2	38.2	37.2	37.2	37.2
70°	42.8	41.3	40.7	39.7	39.7	39.3	37.7	36.1	35.1	35.7	35.1
72.5°	38.6	37.7	36.7	36.7	36.1	35.7	34.0	33.0	32.5	33.0	33.0
75°	34.6	33.0	33.0	32.0	32.0	31.5	29.9	29.5	28.8	29.5	29.9
77.5°	29.5	28.4	27.8	27.8	27.8	27.8	25.8	25.3	25.3	26.3	26.3
80°	24.3	23.7	23.3	23.3	23.3	22.6	21.6	21.2	21.2	21.6	22.2
82.5°	18.5	17.6	17.6	18.1	18.5	18.5	17.0	16.0	16.0	17.0	18.1
85°	12.4	12.4	12.4	12.8	12.8	13.5	12.4	10.8	11.4	11.9	13.5
87.5°	6.6	7.3	6.6	6.2	7.3	6.6	6.6	6.2	6.6	7.3	7.7
90°	8.9	8.9	9.4	9.9	9.3	9.9	8.9	8.4	7.4	7.4	8.9
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



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CATALOG NUMBER: ISW-AF-600-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: P271846

CATALOG NUMBER: ISW-AF-600-LED-E1-SLR-7027-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9
2.5°	878.8	870.0	865.3	883.4	881.9	866.3	866.3	877.3	877.7	868.4	879.4
5°	725.0	716.2	724.6	717.3	721.4	720.9	727.1	715.7	720.4	716.2	706.4
7.5°	537.6	555.2	564.6	552.6	567.5	575.4	564.6	575.4	558.4	544.5	557.8
10°	370.0	389.5	386.0	405.0	412.3	416.5	424.2	414.4	402.5	398.8	389.1
12.5°	286.9	282.8	281.2	289.0	293.7	286.9	292.6	286.4	280.2	269.3	268.9
15°	224.5	217.7	213.1	204.4	201.2	202.7	205.4	205.4	193.0	193.6	198.2
17.5°	170.3	168.7	165.1	157.9	153.3	154.8	154.3	151.7	150.2	151.2	156.8
20°	128.0	126.4	128.5	130.5	129.0	129.5	127.5	124.9	123.9	124.9	125.9
22.5°	101.1	103.2	105.8	108.9	109.4	112.0	111.5	112.0	110.0	108.9	106.3
25°	92.3	93.4	91.9	92.3	92.3	95.0	94.4	94.4	92.3	91.9	92.3
27.5°	81.6	80.9	80.9	82.0	82.0	83.6	84.6	83.6	81.6	80.9	81.6
30°	75.4	74.8	74.3	74.8	74.3	74.8	75.9	75.9	74.8	73.3	73.8
32.5°	69.2	69.2	68.6	69.2	68.6	68.6	69.7	68.1	68.1	67.6	67.6
35°	60.8	61.9	62.9	63.5	63.5	63.5	64.5	62.9	62.4	61.9	61.9
37.5°	52.6	53.7	56.8	58.3	58.7	59.8	60.4	59.4	58.3	57.3	56.2
40°	50.0	50.0	51.0	53.2	55.2	55.8	56.8	55.2	54.7	53.2	51.7
42.5°	48.0	48.5	48.5	49.0	49.6	50.6	52.1	50.6	49.6	48.5	46.9
45°	46.4	46.4	46.4	46.4	45.9	45.9	46.4	45.5	44.8	44.4	44.4
47.5°	45.5	44.8	44.4	43.8	43.4	42.8	42.8	41.8	41.8	41.8	41.8
50°	44.4	43.4	42.8	42.3	41.3	41.3	41.3	40.2	39.7	39.7	40.2
52.5°	42.8	42.3	41.8	41.3	40.7	40.2	40.2	39.3	38.6	38.6	38.6
55°	42.3	41.8	40.7	40.2	39.7	40.2	39.7	39.3	38.2	38.2	38.2
57.5°	40.7	41.3	40.7	39.7	39.7	39.7	39.7	38.6	38.2	37.2	37.7
59°	40.2	40.7	40.2	39.7	39.3	39.7	39.7	38.2	37.7	37.2	37.2
60°	39.7	40.2	39.7	39.3	39.3	39.7	39.3	38.6	37.7	36.1	36.7
62.5°	39.3	39.3	38.6	38.6	38.2	38.6	38.2	37.2	36.1	35.1	34.6
65°	38.2	38.2	37.7	37.7	37.2	37.2	37.2	36.1	35.1	34.0	34.0
67.5°	37.7	37.2	36.7	36.7	36.1	36.1	36.1	35.1	33.6	33.0	32.5
70°	35.7	35.1	35.1	34.6	34.0	34.6	35.1	33.6	32.0	30.9	30.5
72.5°	33.6	33.0	33.0	32.5	32.5	33.0	33.6	32.0	29.9	28.8	28.4
75°	30.5	29.9	29.9	29.9	29.9	30.9	30.9	29.5	27.8	26.3	25.3
77.5°	26.3	26.8	26.8	26.8	26.8	27.8	27.8	26.8	25.3	24.3	22.6
80°	22.6	22.6	23.3	23.3	23.7	23.7	23.3	22.6	22.2	21.2	19.1
82.5°	19.1	19.1	19.1	19.1	19.1	18.5	17.6	18.5	18.5	17.6	16.0
85°	14.9	14.9	14.9	15.5	15.5	13.9	12.4	12.4	13.9	13.5	12.4
87.5°	8.7	8.7	9.3	10.8	9.8	9.3	7.7	8.3	7.7	8.7	7.3
90°	10.9	10.4	10.4	8.4	7.9	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°
1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	110°	79.1
880.2	882.3	887.1	885.5	902.4	897.4	909.3	925.3	940.2	933.0	935.0	112.5°	111.4
723.9	726.5	707.0	718.8	736.3	729.2	726.5	750.3	744.7	771.5	749.3	115°	150.2
536.2	529.9	520.7	516.1	503.1	503.1	527.3	538.3	536.6	555.2	574.4	117.5°	189.5
376.7	369.5	358.2	355.0	367.9	374.1	384.9	395.8	410.3	431.4	443.8	120°	225.3
276.6	274.1	276.6	284.3	296.2	305.0	321.4	340.5	356.5	373.5	390.1	122.5°	259.1
208.9	214.2	220.8	226.0	235.3	251.9	260.6	281.8	296.2	311.2	330.3	125°	291.9
162.5	165.6	167.2	169.2	177.0	188.8	188.8	210.6	229.7	249.2	265.2	127.5°	324.8
123.9	123.9	118.7	121.8	122.8	121.8	128.0	140.3	152.7	165.6	190.9	130°	357.3
103.8	100.6	99.0	98.5	99.0	101.1	104.7	109.4	111.5	117.0	126.9	132.5°	389.7
91.9	91.4	89.8	89.8	90.8	91.4	95.0	99.0	100.1	101.7	105.3	135°	421.0
80.9	82.0	83.6	83.0	83.6	84.6	87.2	90.8	92.9	93.4	96.0	137.5°	450.9
73.3	74.3	74.8	76.4	76.4	76.9	78.9	82.6	84.1	86.7	89.3	140°	479.0
68.1	68.6	69.2	68.6	69.2	69.2	71.8	75.4	77.4	78.9	80.5	142.5°	507.9
62.4	61.9	61.9	61.9	60.4	59.8	60.8	64.5	64.9	66.6	70.2	145°	535.4
55.8	54.2	53.2	53.2	53.2	53.7	56.2	59.8	60.4	61.9	64.9	147.5°	561.9
49.6	49.0	49.0	49.6	50.0	51.0	53.2	56.8	57.3	58.7	61.4	150°	582.0
46.4	46.4	46.4	46.9	47.5	48.0	50.6	54.2	55.2	56.8	59.8	152.5°	597.2
44.4	44.8	44.4	44.4	44.8	45.9	48.5	52.6	54.2	55.8	58.7	155°	614.4
42.8	42.8	42.8	43.4	43.4	44.4	47.5	51.7	52.6	54.7	59.4	157.5°	631.6
40.7	41.8	41.3	41.8	42.3	43.4	46.4	50.6	52.1	55.2	60.4	160°	645.3
39.7	39.7	39.7	40.2	41.3	41.8	44.4	49.0	51.0	55.2	63.5	162.5°	654.7
39.3	38.2	38.2	38.6	39.7	40.7	43.4	48.0	50.6	54.7	62.9	165°	663.5
38.6	37.2	36.7	37.2	38.2	38.6	41.8	46.4	50.0	53.2	60.8	167.5°	672.3
37.2	36.1	35.7	36.1	37.2	38.2	40.7	45.5	48.0	52.1	58.3	170°	679.2
36.7	35.1	35.1	35.7	36.7	37.2	39.7	44.4	46.9	52.6	59.8	172.5°	681.2
34.6	34.0	34.0	34.6	34.6	35.7	38.6	43.4	45.5	53.7	50.0	175°	683.1
33.0	33.0	33.0	33.0	33.6	34.0	37.7	42.3	43.4	46.4	42.8	177.5°	686.6
32.0	32.0	32.0	32.0	32.0	33.0	36.1	40.7	41.3	40.7	39.3	180°	687.0
29.9	29.9	29.9	29.9	30.5	30.9	34.0	38.2	38.2	37.2	37.2		
28.4	27.8	27.8	27.8	27.8	28.4	31.5	35.7	35.1	34.6	34.6		
25.3	25.3	25.3	25.3	25.3	25.3	28.4	32.5	32.0	31.5	30.9		
22.2	22.2	22.6	22.2	21.6	21.2	24.3	28.8	28.8	28.4	27.8		
19.1	18.5	19.1	18.5	17.6	17.6	20.1	24.3	24.7	24.3	23.3		
15.5	14.9	14.9	14.9	12.8	12.8	15.5	19.7	19.7	19.1	18.1		
11.9	11.4	10.8	10.3	8.7	8.7	10.8	14.5	14.9	12.8	12.4		
6.2	6.2	6.2	4.6	4.1	3.6	5.7	8.7	8.7	7.3	6.2		
7.4	6.8	5.9	4.9	4.9	4.9	5.9	7.4	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		

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REPORT NUMBER: P271846
 CATALOG NUMBER: ISW-AF-60

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°	1012.9	1012.9
104.0	100.6	97.2	97.2	97.2	100.6	104.0	111.4	118.8	125.1	2.5°	947.9	952.6
144.3	140.3	136.5	137.4	136.5	140.3	144.3	150.2	156.0	160.4	5°	765.7	783.8
185.5	183.1	180.6	180.6	180.6	183.1	185.5	189.5	193.3	195.8	7.5°	579.0	603.2
221.8	220.4	218.8	220.8	218.8	220.4	221.8	225.3	228.7	230.7	10°	463.9	480.4
256.2	255.7	255.2	258.2	255.2	255.7	256.2	259.1	262.0	264.0	12.5°	407.1	430.8
290.5	289.5	288.5	292.5	288.5	289.5	290.5	291.9	293.5	296.4	15°	349.4	375.1
322.9	322.9	322.9	323.9	322.9	322.9	322.9	324.8	326.8	329.8	17.5°	286.4	317.9
355.3	354.8	354.3	356.3	354.3	354.8	355.3	357.3	359.2	361.2	20°	218.7	249.8
385.7	386.2	386.7	388.7	386.7	386.2	385.7	389.7	393.5	395.1	22.5°	153.8	180.1
418.1	418.1	418.1	421.0	418.1	418.1	418.1	421.0	424.0	425.4	25°	112.0	123.9
450.5	449.5	448.5	451.5	448.5	449.5	450.5	450.9	451.5	453.5	27.5°	99.6	104.2
478.0	477.0	476.0	479.0	476.0	477.0	478.0	479.0	480.0	481.0	30°	93.4	96.5
507.5	506.5	505.5	508.4	505.5	506.5	507.5	507.9	508.4	509.9	32.5°	84.1	87.2
534.0	534.9	535.9	539.8	535.9	534.9	534.0	535.4	536.8	538.4	35°	73.8	78.0
560.5	560.9	561.4	564.3	561.4	560.9	560.5	561.9	563.3	563.3	37.5°	68.6	71.8
582.0	581.6	581.0	584.0	581.0	581.6	582.0	582.0	582.0	582.0	40°	65.6	66.0
596.7	596.7	596.7	599.7	596.7	596.7	596.7	597.2	597.7	598.2	42.5°	62.9	62.9
613.5	613.5	613.5	617.3	613.5	613.5	613.5	614.4	615.4	616.9	45°	61.4	62.9
631.1	631.1	631.1	634.0	631.1	631.1	631.1	631.6	632.0	633.0	47.5°	62.4	69.2
646.8	647.3	647.8	650.7	647.8	647.3	646.8	645.3	643.8	643.4	50°	70.2	68.1
656.6	656.6	656.6	660.5	656.6	656.6	656.6	654.7	652.7	650.7	52.5°	71.8	64.0
663.5	664.5	665.5	668.4	665.5	664.5	663.5	663.5	663.5	662.1	55°	65.6	61.4
671.3	672.8	674.3	677.2	674.3	672.8	671.3	672.3	673.3	674.3	57.5°	58.7	53.7
679.2	680.6	682.2	685.0	682.2	680.6	679.2	679.2	679.2	679.7	59°	52.6	49.6
682.2	683.1	684.1	686.0	684.1	683.1	682.2	681.2	680.2	678.7	60°	49.0	48.0
684.1	684.6	685.0	687.0	685.0	684.6	684.1	683.1	682.2	680.2	62.5°	44.8	45.9
687.0	689.4	692.0	693.9	692.0	689.4	687.0	686.6	686.0	685.0	65°	41.8	43.8
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	67.5°	40.2	41.8
										70°	37.7	38.6
										72.5°	35.1	35.7
										75°	31.5	32.0
										77.5°	27.8	27.8
										80°	22.6	22.6
										82.5°	17.6	17.0
										85°	11.4	10.8
										87.5°	5.2	4.1
										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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tinued):

CANDELA DISTRIBUTION (continued):

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	110°	100.1	106.0	111.9
975.8	990.2	1001.6	999.5	1023.8	1038.2	1040.2	1055.3	1069.7	112.5°	131.5	135.9	140.3
798.2	818.4	838.0	852.4	890.6	922.1	946.4	972.1	1002.6	115°	164.9	167.8	170.8
636.3	653.2	685.2	708.5	748.7	785.4	821.1	861.7	896.3	117.5°	198.3	199.7	201.2
498.5	520.2	550.0	593.4	629.5	671.3	716.2	754.9	812.8	120°	232.6	235.5	238.5
448.0	461.3	486.2	506.7	551.6	595.9	646.6	699.7	752.9	122.5°	266.0	269.0	271.8
395.8	419.5	442.8	472.7	511.9	560.5	615.1	672.4	732.2	125°	299.3	301.8	304.3
345.2	376.7	402.0	434.5	478.3	539.7	610.9	682.2	752.3	127.5°	332.7	333.2	333.7
283.2	312.7	357.1	390.1	447.4	524.3	615.6	714.2	809.1	130°	363.2	364.2	365.1
222.9	254.4	305.0	354.0	416.9	516.1	634.1	766.8	893.7	132.5°	396.5	397.1	397.5
159.4	202.3	252.3	314.2	390.7	510.9	659.4	831.8	1002.6	135°	427.0	428.0	428.9
119.1	149.1	210.0	277.7	361.2	501.5	686.2	892.2	1076.9	137.5°	455.4	457.3	459.3
106.3	127.5	167.2	238.4	325.1	483.5	706.4	949.5	1144.5	140°	481.9	484.8	487.8
92.9	109.4	140.9	201.2	292.6	455.6	715.2	979.9	1191.5	142.5°	511.3	513.3	515.3
81.6	96.9	129.0	186.8	276.0	424.2	713.6	1010.3	1250.4	145°	539.8	540.3	540.8
74.3	87.8	123.9	183.2	263.1	395.3	715.2	1059.4	1337.5	147.5°	563.3	563.9	564.3
68.6	84.1	119.7	175.5	256.9	379.3	721.4	1102.7	1412.3	150°	582.0	582.0	582.0
68.6	83.0	109.4	164.6	254.0	380.8	723.9	1136.3	1468.1	152.5°	598.7	598.7	598.7
72.2	78.0	101.7	158.4	255.9	392.2	720.9	1170.3	1522.3	155°	618.3	617.3	616.3
68.6	72.8	96.5	157.5	255.9	400.5	730.1	1212.6	1593.4	157.5°	634.0	633.6	633.0
64.9	67.6	95.0	155.9	250.8	408.2	768.3	1291.7	1686.4	160°	642.8	642.8	642.8
60.4	63.5	92.9	153.3	245.1	418.0	836.0	1424.3	1840.1	162.5°	648.8	649.7	650.7
54.7	60.8	89.8	149.1	241.6	435.5	905.1	1558.4	2023.3	165°	660.5	660.5	660.5
52.6	58.3	82.6	139.3	237.9	454.6	978.8	1686.8	2187.9	167.5°	675.3	673.8	672.3
51.0	56.2	76.4	132.1	234.7	463.9	1001.1	1735.9	2251.3	170°	680.2	679.2	678.2
50.0	55.2	72.8	125.9	231.1	464.4	1017.2	1754.5	2260.7	172.5°	677.2	677.2	677.2
48.5	53.2	65.6	113.0	219.8	463.9	1018.6	1766.2	2233.8	175°	678.2	677.7	677.2
45.9	51.0	66.0	106.3	199.2	442.2	954.6	1709.0	2127.0	177.5°	684.1	683.1	682.2
43.8	49.6	69.7	107.9	177.5	386.5	835.0	1531.0	1898.4	180°	687.0	687.0	687.0
40.7	48.5	72.8	111.5	171.3	321.0	631.6	1250.4	1589.8				
37.7	48.0	75.4	114.1	164.6	264.2	437.6	886.4	1190.0				
34.0	43.8	68.6	96.9	136.3	192.0	281.8	579.9	820.4				
29.5	35.1	50.0	68.1	100.1	134.2	166.6	350.4	536.6				
24.3	26.3	35.7	43.8	66.6	79.5	92.3	197.6	375.1				
18.1	18.5	24.3	27.8	37.7	43.8	55.2	121.3	304.0				
10.3	11.9	16.5	18.5	22.6	27.8	36.1	77.4	238.4				
4.1	5.2	9.8	10.8	12.4	15.5	20.1	44.8	74.3				
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°	1012.9	1012.9	1012.9	1012.9
142.8	145.3	146.2	147.2	146.7	146.2	145.3	144.3	2.5°	1084.2	1094.9	1104.3	1111.6
173.2	175.7	177.1	178.7	177.1	175.7	174.7	173.7	5°	1035.2	1060.4	1090.8	1116.6
204.2	207.1	209.0	211.0	208.6	206.1	205.2	204.2	7.5°	947.9	979.9	1029.5	1059.9
239.9	241.5	243.4	245.3	242.9	240.5	239.5	238.5	10°	865.3	912.3	966.5	1010.3
272.8	273.8	275.8	277.8	275.3	272.8	271.8	270.9	12.5°	809.1	867.4	919.1	968.0
305.7	307.2	308.2	309.2	306.7	304.3	304.3	304.3	15°	793.7	853.0	899.5	944.3
336.1	338.6	339.1	339.6	339.6	339.6	339.1	338.6	17.5°	824.6	883.9	923.6	951.0
367.6	370.0	372.0	374.0	374.0	374.0	373.0	372.0	20°	897.4	960.7	986.1	984.0
400.5	403.4	405.9	408.3	407.3	406.3	406.3	406.3	22.5°	996.8	1063.5	1063.5	1042.8
431.8	434.8	437.3	439.7	439.2	438.7	440.2	441.7	25°	1128.5	1176.5	1150.2	1110.9
461.8	464.2	465.2	466.2	466.7	467.2	469.6	472.1	27.5°	1222.0	1266.8	1220.9	1156.4
489.3	490.7	491.7	492.7	493.7	494.7	497.1	499.5	30°	1299.3	1332.4	1274.1	1196.1
516.3	517.2	520.2	523.2	523.2	523.2	523.6	524.1	32.5°	1367.4	1391.7	1314.8	1238.0
543.3	545.7	548.7	551.6	551.1	550.6	549.1	547.7	35°	1449.0	1457.7	1357.1	1275.1
566.8	569.3	571.7	574.2	574.6	575.2	573.7	572.2	37.5°	1539.2	1546.5	1418.1	1315.8
584.0	586.0	587.4	588.9	590.4	591.8	593.3	594.8	40°	1645.5	1619.7	1462.9	1353.5
599.2	599.7	601.1	602.7	604.6	606.5	609.1	611.5	42.5°	1711.1	1668.8	1495.4	1373.1
615.4	614.4	616.9	619.3	621.8	624.2	625.2	626.2	45°	1762.7	1704.9	1510.4	1384.5
632.6	632.0	634.0	636.0	637.0	638.0	638.0	638.0	47.5°	1826.2	1758.1	1536.7	1405.1
644.4	645.8	648.8	651.7	650.2	648.8	648.3	647.8	50°	1909.8	1831.8	1603.3	1463.4
652.7	654.7	656.6	658.5	658.1	657.6	656.6	655.7	52.5°	2081.1	1984.5	1722.9	1565.0
660.1	659.5	662.1	664.5	665.9	667.4	666.5	665.5	55°	2278.2	2186.8	1914.4	1732.8
668.9	665.5	668.4	671.3	673.3	675.3	675.3	675.3	57.5°	2436.1	2374.7	2085.2	1884.5
675.7	673.3	674.8	676.2	678.7	681.2	682.2	683.1	59°	2494.4	2468.1	2206.0	2013.0
676.7	676.2	677.7	679.2	680.2	681.2	682.2	683.1	60°	2516.2	2538.8	2269.9	2091.4
677.2	677.2	679.7	682.2	682.6	683.1	682.2	681.2	62.5°	2531.1	2629.6	2478.0	2325.7
681.6	681.2	683.6	686.0	687.0	688.0	686.6	685.0	65°	2500.2	2644.6	2562.1	2468.6
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	67.5°	2365.3	2538.3	2522.4	2440.2
								70°	2089.9	2282.3	2338.1	2221.5
								72.5°	1572.3	1811.3	2115.1	1932.4
								75°	1024.2	1245.1	1806.0	1655.4
								77.5°	641.4	777.1	1288.5	1159.5
								80°	426.8	499.5	817.9	744.7
								82.5°	321.0	354.0	562.5	528.9
								85°	169.2	215.8	437.6	554.7
								87.5°	63.5	70.7	329.2	495.9
								90°	6.8	6.8	8.4	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°
1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	110°	114.8	113.8	115.3	116.8	117.8
1117.7	1126.9	1132.7	1128.5	1135.3	1136.7	1129.6	112.5°	144.3	144.3	145.3	146.2	146.7
1138.3	1164.1	1182.7	1195.6	1200.8	1205.4	1203.3	115°	174.7	173.7	174.7	175.7	177.1
1100.2	1139.9	1174.4	1198.2	1206.4	1212.6	1207.0	117.5°	205.2	204.2	205.2	206.1	208.6
1057.8	1099.1	1131.7	1155.4	1154.8	1161.0	1150.2	120°	238.5	238.5	239.5	240.5	242.9
1018.0	1058.3	1087.3	1086.2	1079.0	1060.9	1057.8	122.5°	271.8	270.9	271.8	272.8	275.3
986.6	1007.8	1015.1	1013.5	992.8	982.5	980.9	125°	304.3	304.3	304.3	304.3	306.7
971.2	970.1	953.6	935.6	915.9	914.9	901.4	127.5°	340.5	338.6	339.1	339.6	339.6
973.8	940.2	909.7	878.8	857.6	853.0	854.5	130°	373.0	372.0	373.0	374.0	374.0
1006.2	946.9	889.6	858.2	833.4	826.1	829.2	132.5°	407.3	406.3	406.3	406.3	407.3
1047.0	967.6	896.3	848.3	828.1	819.4	821.1	135°	442.7	441.7	440.2	438.7	439.2
1074.4	991.3	918.4	859.2	831.8	823.6	828.8	137.5°	473.0	472.1	469.6	467.2	466.7
1109.5	1023.8	948.4	887.1	846.2	835.4	839.1	140°	501.5	499.5	497.1	494.7	493.7
1144.0	1058.8	990.7	921.1	871.5	851.4	857.2	142.5°	526.0	524.1	523.6	523.2	523.2
1181.1	1099.6	1031.0	967.6	909.3	877.7	885.0	145°	549.7	547.7	549.1	550.6	551.1
1224.5	1147.0	1088.3	1030.0	970.1	943.8	946.9	147.5°	574.2	572.2	573.7	575.2	574.6
1266.3	1193.6	1155.8	1112.6	1077.4	1037.3	1037.3	150°	598.7	594.8	593.3	591.8	590.4
1291.0	1253.9	1243.6	1231.1	1210.6	1181.7	1175.5	152.5°	616.3	611.5	609.1	606.5	604.6
1321.5	1325.7	1349.3	1374.1	1380.3	1351.9	1343.1	155°	629.2	626.2	625.2	624.2	621.8
1378.8	1422.2	1500.1	1567.6	1581.1	1604.4	1577.4	157.5°	642.8	638.0	638.0	638.0	637.0
1459.3	1539.2	1670.8	1781.2	1812.8	1814.8	1816.9	160°	653.7	647.8	648.3	648.8	650.2
1551.1	1665.6	1839.5	1971.2	2027.5	2042.4	2031.6	162.5°	661.5	655.7	656.6	657.6	658.1
1708.6	1812.2	2002.6	2144.5	2216.7	2251.9	2242.6	165°	669.3	665.5	666.5	667.4	665.9
1864.3	1993.4	2161.1	2300.9	2377.8	2417.0	2425.2	167.5°	681.2	675.3	675.3	675.3	673.3
1970.6	2091.4	2246.2	2375.2	2451.0	2498.1	2502.2	170°	688.0	683.1	682.2	681.2	678.7
2035.6	2146.1	2297.2	2410.8	2486.7	2526.4	2540.9	172.5°	688.0	683.1	682.2	681.2	680.2
2232.7	2252.9	2356.2	2430.9	2484.2	2502.2	2513.0	175°	686.0	681.2	682.2	683.1	682.6
2325.2	2241.0	2229.1	2275.7	2280.3	2268.4	2253.5	177.5°	689.0	685.0	686.6	688.0	687.0
2196.6	2000.1	1927.3	1921.1	1902.0	1894.3	1846.8	180°	687.0	687.0	687.0	687.0	687.0
1907.7	1624.5	1495.9	1426.3	1468.5	1467.0	1418.5						
1607.3	1318.9	1152.3	1052.2	1039.8	1037.7	995.4						
1305.5	1035.2	889.1	840.5	782.2	764.7	771.9						
941.2	738.9	708.0	745.1	749.7	736.3	727.1						
592.9	555.7	585.7	653.2	693.0	675.4	682.2						
494.3	437.6	439.6	510.9	537.6	541.8	527.8						
548.5	438.1	359.1	350.4	341.1	214.7	298.8						
494.3	339.0	199.7	164.6	101.1	58.3	60.4						
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°	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9
147.2	146.2	145.3	142.8	140.3	135.9	2.5°	1128.0	1118.2	1107.4	1092.9	1095.6	1078.0
178.7	177.1	175.7	173.2	170.8	167.8	5°	1187.4	1170.3	1147.0	1117.7	1090.4	1055.3
211.0	209.0	207.1	204.2	201.2	199.7	7.5°	1181.1	1153.9	1115.1	1070.7	1034.6	984.0
245.3	243.4	241.5	239.9	238.5	235.5	10°	1128.0	1092.4	1060.9	1015.1	968.0	923.6
277.8	275.8	273.8	272.8	271.8	269.0	12.5°	1053.7	1033.6	1006.2	971.7	926.2	880.9
309.2	308.2	307.2	305.7	304.3	301.8	15°	972.7	974.2	957.8	948.4	925.7	889.6
339.6	339.1	338.6	336.1	333.7	333.2	17.5°	906.1	921.6	930.4	944.7	947.4	929.8
374.0	372.0	370.0	367.6	365.1	364.2	20°	861.7	883.4	910.7	950.5	992.3	1010.3
408.3	405.9	403.4	400.5	397.5	397.1	22.5°	837.0	863.8	907.6	979.9	1056.2	1102.2
439.7	437.3	434.8	431.8	428.9	428.0	25°	832.3	867.9	929.4	1017.6	1116.6	1181.1
466.2	465.2	464.2	461.8	459.3	457.3	27.5°	840.1	886.4	959.3	1059.9	1157.5	1250.8
492.7	491.7	490.7	489.3	487.8	484.8	30°	864.9	919.1	998.5	1106.8	1208.0	1300.8
523.2	520.2	517.2	516.3	515.3	513.3	32.5°	888.5	955.7	1043.4	1149.1	1250.8	1343.1
551.6	548.7	545.7	543.3	540.8	540.3	35°	926.7	994.3	1084.2	1181.7	1280.3	1385.0
574.2	571.7	569.3	566.8	564.3	563.9	37.5°	985.1	1044.4	1116.1	1207.0	1309.7	1418.1
588.9	587.4	586.0	584.0	582.0	582.0	40°	1068.2	1107.4	1153.9	1225.6	1324.1	1440.3
602.7	601.1	599.7	599.2	598.7	598.7	42.5°	1192.5	1200.8	1216.8	1253.9	1336.9	1466.0
619.3	616.9	614.4	615.4	616.3	617.3	45°	1352.9	1328.2	1314.3	1309.1	1366.0	1482.6
636.0	634.0	632.0	632.6	633.0	633.6	47.5°	1539.2	1490.7	1435.0	1408.3	1421.6	1508.8
651.7	648.8	645.8	644.4	642.8	642.8	50°	1781.8	1702.8	1593.4	1516.1	1509.3	1586.2
658.5	656.6	654.7	652.7	650.7	649.7	52.5°	2004.2	1901.0	1763.2	1671.8	1634.7	1730.8
664.5	662.1	659.5	660.1	660.5	660.5	55°	2214.2	2134.7	1979.0	1865.4	1852.5	1922.1
671.3	668.4	665.5	668.9	672.3	673.8	57.5°	2398.5	2329.8	2202.4	2054.2	2059.5	2127.0
676.2	674.8	673.3	675.7	678.2	679.2	59°	2494.0	2436.7	2318.4	2167.8	2179.1	2272.0
679.2	677.7	676.2	676.7	677.2	677.2	60°	2528.0	2480.0	2367.4	2240.6	2254.9	2351.4
682.2	679.7	677.2	677.2	677.2	677.7	62.5°	2525.3	2494.4	2412.8	2353.0	2426.8	2497.5
686.0	683.6	681.2	681.6	682.2	683.1	65°	2284.4	2237.5	2228.2	2332.9	2475.3	2543.4
687.0	687.0	687.0	687.0	687.0	687.0	67.5°	1816.9	1839.1	1927.3	2107.4	2346.4	2445.4
						70°	1349.3	1388.6	1506.3	1732.2	2060.4	2231.7
						72.5°	992.3	1031.5	1139.9	1387.5	1695.1	1846.8
						75°	778.7	790.5	868.4	1063.0	1336.0	1460.4
						77.5°	719.4	683.7	651.7	755.9	901.0	1007.8
						80°	669.8	602.2	526.9	558.4	593.4	707.0
						82.5°	520.2	475.2	416.5	456.7	473.1	476.8
						85°	304.4	270.9	343.2	486.2	481.0	421.0
						87.5°	107.3	139.3	156.8	269.3	325.5	281.8
						90°	7.8	9.4	12.5	12.6	14.6	8.4
						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°
1012.9	1012.9	1012.9	110°	100.1	92.7	85.4	79.1	72.7	69.7	66.7
1064.0	1049.6	1048.5	112.5°	131.5	125.1	118.8	111.4	104.0	100.6	97.2
1027.4	994.9	984.5	115°	164.9	160.4	156.0	150.2	144.3	140.3	136.5
940.2	902.4	894.8	117.5°	198.3	195.8	193.3	189.5	185.5	183.1	180.6
867.0	825.1	817.9	120°	232.6	230.7	228.7	225.3	221.8	220.4	218.8
829.2	789.5	780.8	122.5°	266.0	264.0	262.0	259.1	256.2	255.7	255.2
843.7	799.9	795.2	125°	299.3	296.4	293.5	291.9	290.5	289.5	288.5
897.9	851.4	853.5	127.5°	332.7	329.8	326.8	324.8	322.9	322.9	322.9
990.7	960.7	953.6	130°	363.2	361.2	359.2	357.3	355.3	354.8	354.3
1112.6	1080.0	1070.7	132.5°	396.5	395.1	393.5	389.7	385.7	386.2	386.7
1216.2	1199.8	1193.6	135°	427.0	425.4	424.0	421.0	418.1	418.1	418.1
1291.0	1298.8	1292.6	137.5°	455.4	453.5	451.5	450.9	450.5	449.5	448.5
1350.9	1376.7	1373.6	140°	481.9	481.0	480.0	479.0	478.0	477.0	476.0
1412.3	1462.4	1464.5	142.5°	511.3	509.9	508.4	507.9	507.5	506.5	505.5
1457.7	1545.9	1563.9	145°	539.8	538.4	536.8	535.4	534.0	534.9	535.9
1516.1	1634.3	1652.8	147.5°	563.3	563.3	563.3	561.9	560.5	560.9	561.4
1560.4	1699.2	1721.9	150°	582.0	582.0	582.0	582.0	582.0	581.6	581.0
1603.7	1753.0	1777.7	152.5°	598.7	598.2	597.7	597.2	596.7	596.7	596.7
1639.4	1806.0	1831.4	155°	618.3	616.9	615.4	614.4	613.5	613.5	613.5
1679.7	1857.7	1882.4	157.5°	634.0	633.0	632.0	631.6	631.1	631.1	631.1
1751.9	1938.6	1968.1	160°	642.8	643.4	643.8	645.3	646.8	647.3	647.8
1907.2	2088.8	2130.6	162.5°	648.8	650.7	652.7	654.7	656.6	656.6	656.6
2131.7	2296.2	2329.2	165°	660.5	662.1	663.5	663.5	663.5	664.5	665.5
2334.0	2437.1	2445.9	167.5°	675.3	674.3	673.3	672.3	671.3	672.8	674.3
2417.0	2475.8	2473.2	170°	680.2	679.7	679.2	679.2	679.2	680.6	682.2
2478.0	2485.1	2470.7	172.5°	677.2	678.7	680.2	681.2	682.2	683.1	684.1
2510.9	2442.3	2417.5	175°	678.2	680.2	682.2	683.1	684.1	684.6	685.0
2424.7	2329.2	2296.8	177.5°	684.1	685.0	686.0	686.6	687.0	689.4	692.0
2176.1	2125.5	2088.3	180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0
1851.0	1722.9	1698.8								
1403.1	1234.3	1198.2								
980.4	778.1	729.2								
644.5	499.5	481.0								
418.0	331.8	326.2								
291.5	217.7	200.7								
179.0	72.8	69.7								
55.8	33.6	29.9								
6.5	7.0	7.0								
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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