

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: P271876

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271876  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35948)-DOWNLIGHT AND  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISW-AF-1200-LED-E1-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: 6866.7 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U5 - G2

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

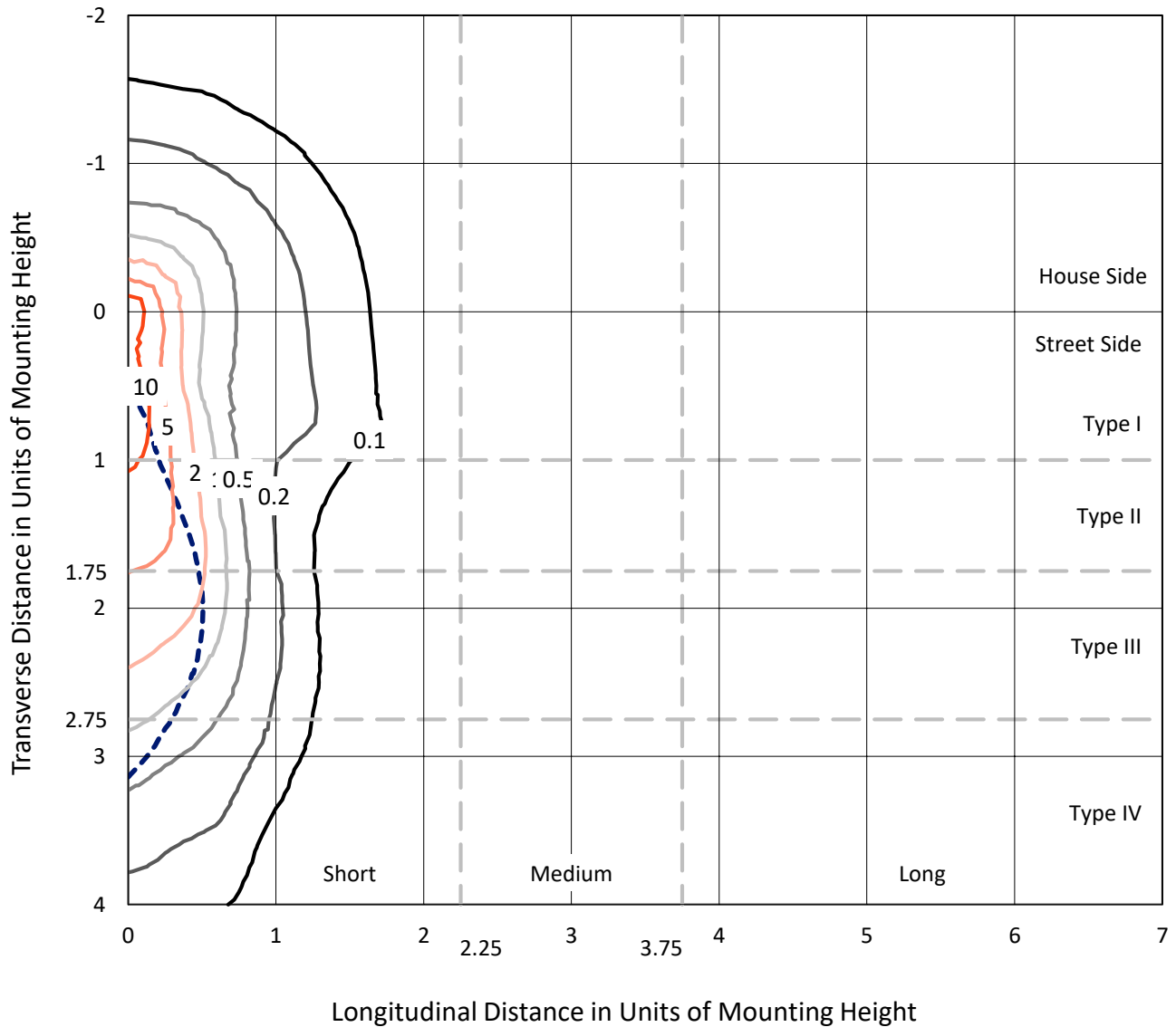


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

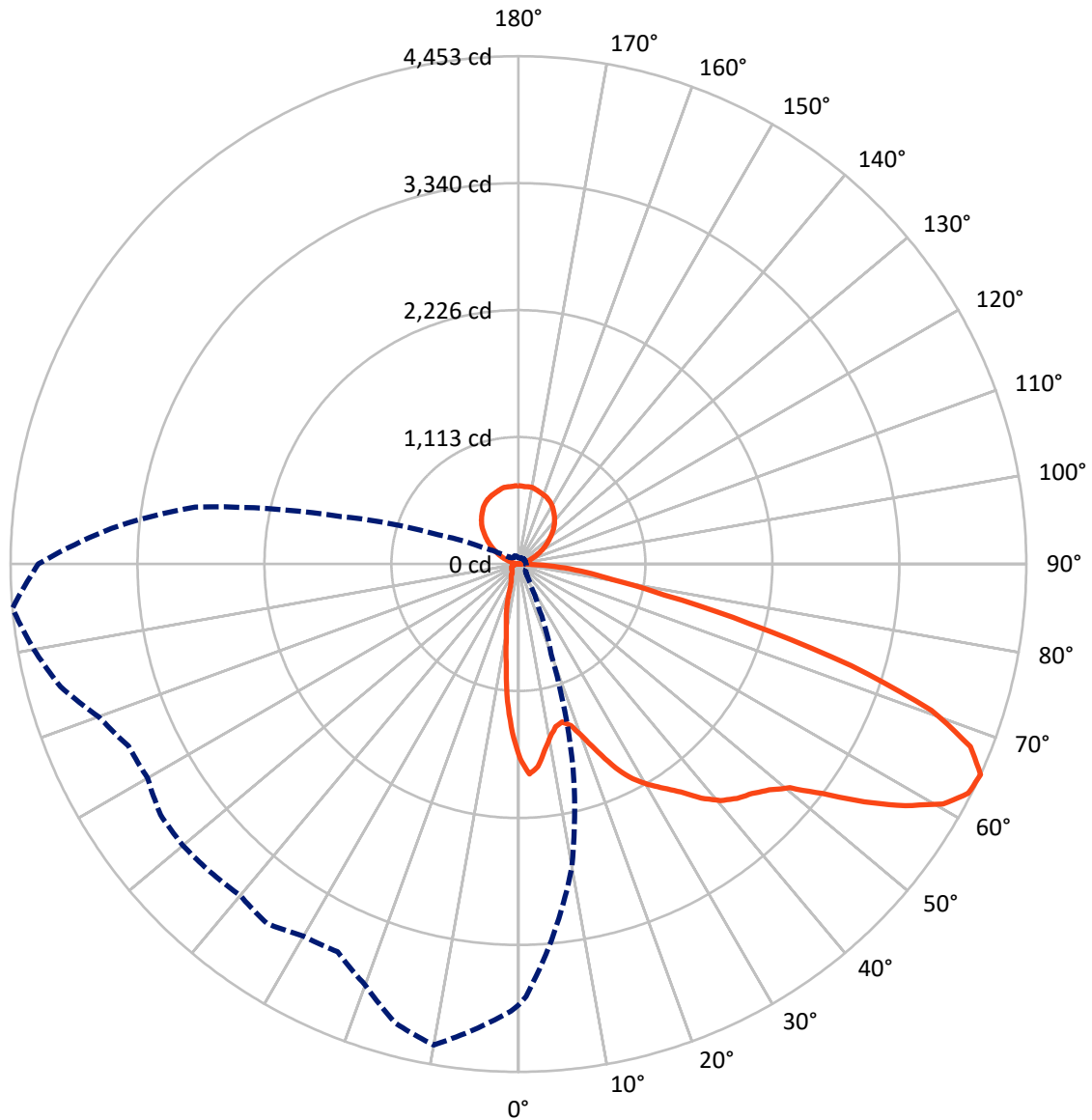


Based on 10 foot mounting height. Maximum calculated value = 17.1 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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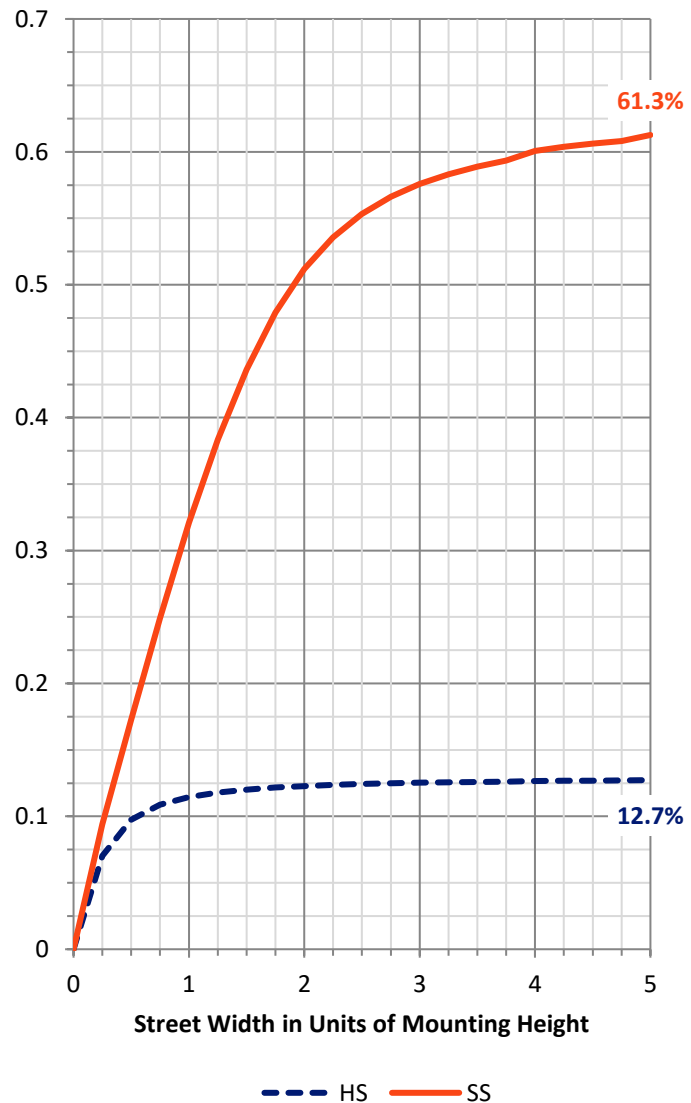
**FLUX DISTRIBUTION:**

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

**Coefficient of Utilization**

**ZONAL LUMENS:**

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



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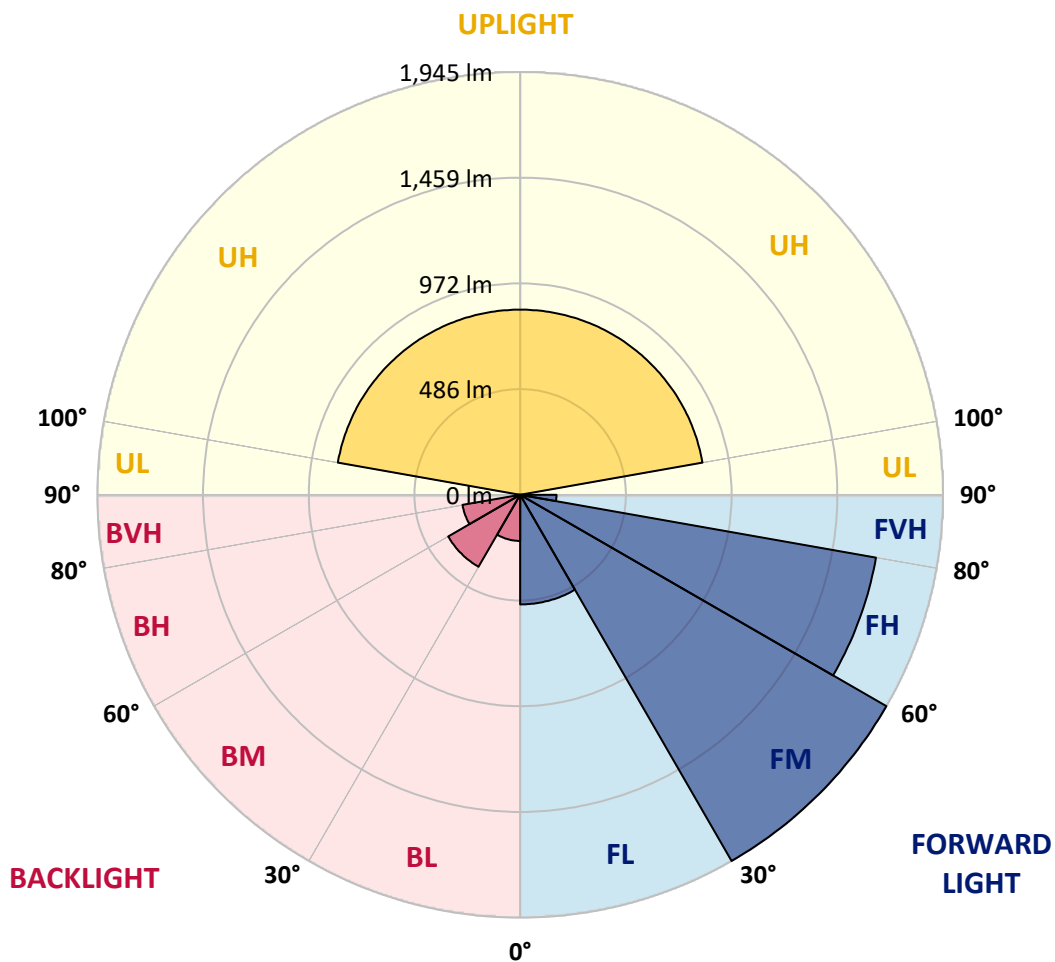
CATALOG NUMBER: ISW-AF-1200-LED-E1-SLR-7027-ULG

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

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

**BUG Rating: B1-U5-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5
2.5°	1765.5	1755.1	1742.0	1719.4	1699.4	1670.8	1663.8	1628.2	1605.6	1610.8	1570.0
5°	1657.7	1651.6	1619.6	1569.1	1536.1	1471.0	1433.5	1414.5	1360.7	1353.7	1338.9
7.5°	1506.5	1488.3	1436.2	1373.7	1317.2	1269.3	1209.5	1163.3	1122.5	1097.4	1053.0
10°	1377.1	1358.0	1301.6	1225.1	1157.3	1090.5	1041.8	981.8	923.5	878.5	842.8
12.5°	1314.6	1293.6	1227.6	1139.1	1063.4	980.1	911.4	852.3	820.2	797.5	768.1
15°	1338.9	1308.5	1229.4	1123.4	1029.5	941.0	868.0	804.5	766.3	731.6	696.8
17.5°	1437.1	1399.6	1309.4	1181.6	1051.3	936.7	832.4	760.2	699.4	647.3	600.3
20°	1605.6	1577.9	1446.6	1267.7	1098.2	939.2	802.0	707.2	633.3	567.4	504.8
22.5°	1802.9	1761.1	1632.6	1384.1	1158.2	954.9	782.9	662.9	575.2	486.5	418.8
25°	2009.7	1977.5	1807.2	1540.4	1250.4	987.0	768.1	623.9	506.6	408.4	333.6
27.5°	2176.4	2147.8	1979.2	1690.8	1334.5	1014.8	746.3	586.4	451.8	333.6	251.1
30°	2312.9	2288.5	2112.2	1814.1	1437.1	1024.3	715.9	543.0	391.0	269.3	207.7
32.5°	2465.8	2438.9	2239.8	1900.2	1483.1	1015.6	681.2	502.2	342.3	238.1	178.1
35°	2633.5	2602.2	2382.3	1993.1	1521.4	985.4	651.6	472.7	318.9	216.3	158.1
37.5°	2782.9	2763.0	2510.9	2085.2	1564.8	934.9	623.0	440.5	303.2	200.7	142.5
40°	2899.3	2894.1	2653.4	2161.7	1598.6	898.3	599.5	415.3	283.2	194.7	137.4
42.5°	2993.2	2991.4	2769.8	2230.3	1607.3	866.2	581.2	392.6	265.0	179.8	139.9
45°	3083.5	3082.6	2882.8	2325.9	1613.4	868.0	567.4	378.8	249.4	170.3	132.1
47.5°	3169.5	3182.5	3001.0	2458.8	1677.8	897.6	562.1	365.8	237.2	159.9	125.1
50°	3313.8	3300.7	3187.7	2638.7	1781.1	954.9	553.4	354.5	225.9	150.3	118.1
52.5°	3587.4	3572.6	3471.9	2879.3	1894.1	1014.0	542.1	338.8	212.9	139.9	110.3
55°	3922.0	3941.9	3802.1	3172.2	2047.9	1063.4	530.0	318.0	195.5	127.6	105.1
57.5°	4118.3	4101.8	3941.9	3340.7	2142.5	1088.7	522.2	293.7	168.5	117.3	99.9
59°	4164.4	4136.5	3918.5	3369.5	2167.8	1076.5	517.9	270.2	154.7	112.1	97.3
60°	4160.1	4126.2	3881.1	3351.1	2174.7	1061.8	510.9	256.3	146.9	109.4	96.5
62.5°	4070.5	4017.5	3669.1	3130.4	2077.4	987.9	482.2	223.3	136.5	106.0	91.2
65°	3867.2	3792.6	3312.9	2699.5	1854.1	841.0	417.0	211.1	139.0	104.2	87.8
67.5°	3516.2	3456.3	2855.0	2233.7	1477.9	679.5	360.6	205.9	142.5	106.0	82.6
70°	2860.2	2809.0	2227.7	1672.6	1106.9	540.4	327.5	203.3	139.9	101.7	78.2
72.5°	2017.4	1928.8	1480.5	1171.2	702.0	434.4	284.1	192.0	136.5	98.2	71.2
75°	1227.6	1244.2	941.0	853.2	443.1	298.0	223.3	161.7	120.7	87.8	64.3
77.5°	809.7	808.9	694.2	602.1	225.0	185.1	158.1	124.2	94.7	72.1	55.7
80°	549.1	555.2	503.9	411.0	125.1	111.2	103.3	90.4	69.5	54.8	46.0
82.5°	338.0	338.8	390.1	307.6	83.5	70.3	66.0	60.8	49.6	42.6	35.7
85°	117.3	119.9	136.5	217.2	56.4	46.0	46.0	42.6	37.4	28.7	23.4
87.5°	50.3	49.6	59.1	59.1	27.8	23.4	21.6	21.6	20.8	15.6	13.0
90°	8.4	7.5	7.5	9.3	11.2	13.5	13.0	13.9	13.9	12.6	10.3
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°	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5
2.5°	1557.8	1548.3	1521.4	1514.5	1523.1	1505.6	1501.3	1497.0	1464.9	1481.3	1462.4
5°	1302.5	1299.8	1245.1	1256.4	1245.1	1226.0	1218.1	1236.3	1204.2	1211.2	1215.5
7.5°	1000.9	990.5	954.0	929.7	914.9	901.9	885.4	858.4	879.4	874.9	908.0
10°	812.3	789.8	767.2	733.3	714.2	696.0	676.9	666.5	642.1	639.4	628.2
12.5°	744.5	712.4	683.8	654.2	634.2	597.7	567.4	548.2	532.7	508.4	490.0
15°	654.2	627.3	590.0	561.4	530.0	497.0	467.5	443.1	431.8	409.2	398.8
17.5°	563.0	522.2	477.0	448.3	404.9	371.0	346.7	331.0	314.6	300.7	288.4
20°	453.6	400.6	351.9	315.3	281.5	248.5	237.2	218.1	211.1	205.9	210.2
22.5°	344.9	290.2	239.8	212.0	193.8	185.1	175.5	172.0	169.4	168.5	170.3
25°	252.9	206.8	182.4	172.0	165.1	159.9	156.3	153.8	152.0	151.2	152.0
27.5°	195.5	171.1	159.0	152.0	146.9	143.4	141.7	139.0	138.2	137.4	138.2
30°	169.4	156.3	147.7	140.8	134.7	128.5	126.0	125.1	126.0	126.8	126.0
32.5°	147.7	138.2	128.5	122.5	118.1	114.7	114.7	113.0	113.0	115.5	116.4
35°	133.8	124.2	117.3	109.4	104.2	100.8	98.2	96.5	97.3	97.3	99.9
37.5°	122.5	115.5	109.4	102.6	97.3	93.9	92.1	90.4	89.5	88.7	88.7
40°	114.7	110.3	105.1	98.2	93.0	89.5	87.8	86.0	85.2	84.4	84.4
42.5°	114.7	106.0	102.6	96.5	90.4	86.9	84.4	82.6	80.8	80.8	80.8
45°	126.0	108.7	102.6	95.6	89.5	85.2	82.6	79.9	78.2	78.2	77.3
47.5°	122.5	121.6	104.2	95.6	90.4	85.2	81.7	79.1	77.3	76.4	75.5
50°	116.4	126.8	116.4	98.2	90.4	84.4	80.8	78.2	75.5	74.6	74.6
52.5°	113.0	118.1	120.7	101.7	91.2	84.4	79.9	77.3	75.5	73.8	73.0
55°	104.2	111.2	115.5	99.9	91.2	82.6	78.2	75.5	73.0	72.1	71.2
57.5°	95.6	100.8	111.2	99.9	88.7	81.7	76.4	73.0	71.2	70.3	69.5
59°	93.0	93.0	99.0	102.6	86.9	80.8	75.5	72.1	70.3	69.5	67.7
60°	90.4	90.4	93.9	105.1	86.0	79.9	74.6	71.2	68.6	68.6	67.7
62.5°	86.9	84.4	86.0	98.2	83.5	78.2	73.0	69.5	66.9	66.9	66.0
65°	82.6	79.1	79.1	81.7	78.2	74.6	71.2	67.7	64.3	64.3	65.1
67.5°	78.2	74.6	73.8	73.8	72.1	71.2	67.7	64.3	62.5	62.5	62.5
70°	72.1	69.5	68.6	66.9	66.9	66.0	63.4	60.8	59.1	60.0	59.1
72.5°	65.1	63.4	61.7	61.7	60.8	60.0	57.3	55.7	54.8	55.7	55.7
75°	58.2	55.7	55.7	53.9	53.9	53.0	50.3	49.6	48.7	49.6	50.3
77.5°	49.6	47.8	46.9	46.9	46.9	46.9	43.5	42.6	42.6	44.3	44.3
80°	40.9	40.0	39.1	39.1	39.1	38.3	36.5	35.7	35.7	36.5	37.4
82.5°	31.4	29.6	29.6	30.5	31.4	31.4	28.7	26.9	26.9	28.7	30.5
85°	20.8	20.8	20.8	21.6	21.6	22.5	20.8	18.2	19.1	20.0	22.5
87.5°	11.3	12.1	11.3	10.4	12.1	11.3	11.3	10.4	11.3	12.1	13.0
90°	10.3	10.3	10.5	10.6	9.7	10.6	9.6	9.5	7.7	7.7	9.6
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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**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



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**CANDELA DISTRIBUTION (continued):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5
2.5°	1479.7	1464.9	1457.1	1487.4	1484.9	1458.8	1458.8	1477.0	1477.9	1462.4	1480.5
5°	1220.8	1206.0	1219.9	1207.7	1214.7	1213.8	1224.2	1205.1	1212.9	1206.0	1189.4
7.5°	905.3	934.9	950.5	930.6	955.8	968.7	950.5	968.7	940.1	916.6	939.2
10°	623.0	656.0	649.9	682.0	694.2	701.1	714.2	697.6	677.7	671.7	655.1
12.5°	483.1	476.1	473.6	486.5	494.3	483.1	492.6	482.2	471.8	453.6	452.7
15°	378.0	366.7	358.9	344.1	338.8	341.4	345.8	345.8	325.0	325.8	333.6
17.5°	286.6	284.1	278.0	265.9	258.0	260.7	259.8	255.5	252.9	254.6	264.1
20°	215.4	212.9	216.3	219.8	217.2	218.1	214.7	210.2	208.6	210.2	212.0
22.5°	170.3	173.7	178.1	183.3	184.2	188.6	187.7	188.6	185.1	183.3	179.0
25°	155.6	157.2	154.7	155.6	155.6	159.9	159.0	159.0	155.6	154.7	155.6
27.5°	137.4	136.5	136.5	138.2	138.2	140.8	142.5	140.8	137.4	136.5	137.4
30°	126.8	126.0	125.1	126.0	125.1	126.0	127.6	127.6	126.0	123.3	124.2
32.5°	116.4	116.4	115.5	116.4	115.5	115.5	117.3	114.7	114.7	113.8	113.8
35°	102.6	104.2	106.0	106.9	106.9	106.9	108.7	106.0	105.1	104.2	104.2
37.5°	88.7	90.4	95.6	98.2	99.0	100.8	101.7	99.9	98.2	96.5	94.7
40°	84.4	84.4	86.0	89.5	93.0	93.9	95.6	93.0	92.1	89.5	86.9
42.5°	80.8	81.7	81.7	82.6	83.5	85.2	87.8	85.2	83.5	81.7	79.1
45°	78.2	78.2	78.2	78.2	77.3	77.3	78.2	76.4	75.5	74.6	74.6
47.5°	76.4	75.5	74.6	73.8	73.0	72.1	72.1	70.3	70.3	70.3	70.3
50°	74.6	73.0	72.1	71.2	69.5	69.5	69.5	67.7	66.9	66.9	67.7
52.5°	72.1	71.2	70.3	69.5	68.6	67.7	67.7	66.0	65.1	65.1	65.1
55°	71.2	70.3	68.6	67.7	66.9	67.7	66.9	66.0	64.3	64.3	64.3
57.5°	68.6	69.5	68.6	66.9	66.9	66.9	66.9	65.1	64.3	62.5	63.4
59°	67.7	68.6	67.7	66.9	66.0	66.9	66.9	64.3	63.4	62.5	62.5
60°	66.9	67.7	66.9	66.0	66.0	66.9	66.0	65.1	63.4	60.8	61.7
62.5°	66.0	66.0	65.1	65.1	64.3	65.1	64.3	62.5	60.8	59.1	58.2
65°	64.3	64.3	63.4	63.4	62.5	62.5	62.5	60.8	59.1	57.3	57.3
67.5°	63.4	62.5	61.7	61.7	60.8	60.8	60.8	59.1	56.4	55.7	54.8
70°	60.0	59.1	59.1	58.2	57.3	58.2	59.1	56.4	53.9	52.1	51.2
72.5°	56.4	55.7	55.7	54.8	54.8	55.7	56.4	53.9	50.3	48.7	47.8
75°	51.2	50.3	50.3	50.3	50.3	52.1	52.1	49.6	46.9	44.3	42.6
77.5°	44.3	45.2	45.2	45.2	45.2	46.9	46.9	45.2	42.6	40.9	38.3
80°	38.3	38.3	39.1	39.1	40.0	40.0	39.1	38.3	37.4	35.7	32.2
82.5°	32.2	32.2	32.2	32.2	32.2	31.4	29.6	31.4	31.4	29.6	26.9
85°	25.2	25.2	25.2	26.1	26.1	23.4	20.8	20.8	23.4	22.5	20.8
87.5°	14.7	14.7	15.6	18.2	16.5	15.6	13.0	13.9	13.0	14.7	12.1
90°	12.3	11.5	11.5	8.7	8.6	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°
1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	110°	79.1
1482.2	1485.8	1493.5	1491.0	1519.7	1510.9	1530.9	1557.8	1583.0	1570.9	1574.4	112.5°	111.4
1219.0	1223.3	1190.3	1210.3	1239.8	1227.6	1223.3	1263.3	1253.8	1298.9	1261.6	115°	150.2
902.8	892.3	876.7	868.8	847.1	847.1	888.0	906.2	903.5	934.9	967.0	117.5°	189.5
634.2	622.1	603.0	597.7	619.5	629.9	648.1	666.5	690.8	726.4	747.2	120°	225.3
465.7	461.4	465.7	478.8	498.6	513.5	541.3	573.5	600.3	629.0	656.8	122.5°	259.1
351.9	360.6	371.9	380.5	396.2	424.0	438.7	474.3	498.6	523.9	556.1	125°	291.9
273.6	278.9	281.5	285.0	298.0	318.0	318.0	354.5	386.6	419.7	446.5	127.5°	324.8
208.6	208.6	199.9	205.0	206.8	205.0	215.4	236.3	257.2	278.9	321.4	130°	357.3
174.6	169.4	166.8	166.0	166.8	170.3	176.3	184.2	187.7	197.2	213.8	132.5°	389.7
154.7	153.8	151.2	151.2	152.9	153.8	159.9	166.8	168.5	171.1	177.2	135°	421.0
136.5	138.2	140.8	139.9	140.8	142.5	146.9	152.9	156.3	157.2	161.7	137.5°	450.9
123.3	125.1	126.0	128.5	128.5	129.4	132.9	139.0	141.7	146.0	150.3	140°	479.0
114.7	115.5	116.4	115.5	116.4	116.4	120.7	126.8	130.3	132.9	135.6	142.5°	507.9
105.1	104.2	104.2	104.2	101.7	100.8	102.6	108.7	109.4	112.1	118.1	145°	535.4
93.9	91.2	89.5	89.5	89.5	90.4	94.7	100.8	101.7	104.2	109.4	147.5°	561.9
83.5	82.6	82.6	83.5	84.4	86.0	89.5	95.6	96.5	99.0	103.3	150°	582.0
78.2	78.2	78.2	79.1	79.9	80.8	85.2	91.2	93.0	95.6	100.8	152.5°	597.2
74.6	75.5	74.6	74.6	75.5	77.3	81.7	88.7	91.2	93.9	99.0	155°	614.4
72.1	72.1	72.1	73.0	73.0	74.6	79.9	86.9	88.7	92.1	99.9	157.5°	631.6
68.6	70.3	69.5	70.3	71.2	73.0	78.2	85.2	87.8	93.0	101.7	160°	645.3
66.9	66.9	66.9	67.7	69.5	70.3	74.6	82.6	86.0	93.0	106.9	162.5°	654.7
66.0	64.3	64.3	65.1	66.9	68.6	73.0	80.8	85.2	92.1	106.0	165°	663.5
65.1	62.5	61.7	62.5	64.3	65.1	70.3	78.2	84.4	89.5	102.6	167.5°	672.3
62.5	60.8	60.0	60.8	62.5	64.3	68.6	76.4	80.8	87.8	98.2	170°	679.2
61.7	59.1	59.1	60.0	61.7	62.5	66.9	74.6	79.1	88.7	100.8	172.5°	681.2
58.2	57.3	57.3	58.2	58.2	60.0	65.1	73.0	76.4	90.4	84.4	175°	683.1
55.7	55.7	55.7	55.7	56.4	57.3	63.4	71.2	73.0	78.2	72.1	177.5°	686.6
53.9	53.9	53.9	53.9	53.9	55.7	60.8	68.6	69.5	68.6	66.0	180°	687.0
50.3	50.3	50.3	50.3	51.2	52.1	57.3	64.3	64.3	62.5	62.5		
47.8	46.9	46.9	46.9	46.9	47.8	53.0	60.0	59.1	58.2	58.2		
42.6	42.6	42.6	42.6	42.6	42.6	47.8	54.8	53.9	53.0	52.1		
37.4	37.4	38.3	37.4	36.5	35.7	40.9	48.7	48.7	47.8	46.9		
32.2	31.4	32.2	31.4	29.6	29.6	33.9	40.9	41.7	40.9	39.1		
26.1	25.2	25.2	25.2	21.6	21.6	26.1	33.0	33.0	32.2	30.5		
20.0	19.1	18.2	17.3	14.7	14.7	18.2	24.3	25.2	21.6	20.8		
10.4	10.4	10.4	7.8	7.0	6.1	9.5	14.7	14.7	12.1	10.4		
7.4	6.8	5.9	4.9	4.9	4.9	5.9	7.7	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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ISW-AF-1200-LED-E1-SLR-7027-ULG

REPORT NUMBER: P271876

CATALOG NUMBER: ISW-AF-1:

**TION (continued):**

**CANDELA DISTRIBUTION (con**

165°	170°	175°	180°	185°	190°	195°	200°	205°	210°		215°	220°
72.7	69.7	66.7	64.8	66.7	69.7	72.7	79.1	85.4	92.7	0°	1705.5	1705.5
104.0	100.6	97.2	97.2	97.2	100.6	104.0	111.4	118.8	125.1	2.5°	1596.1	1603.8
144.3	140.3	136.5	137.4	136.5	140.3	144.3	150.2	156.0	160.4	5°	1289.3	1319.8
185.5	183.1	180.6	180.6	180.6	183.1	185.5	189.5	193.3	195.8	7.5°	974.8	1015.6
221.8	220.4	218.8	220.8	218.8	220.4	221.8	225.3	228.7	230.7	10°	781.1	808.9
256.2	255.7	255.2	258.2	255.2	255.7	256.2	259.1	262.0	264.0	12.5°	685.6	725.5
290.5	289.5	288.5	292.5	288.5	289.5	290.5	291.9	293.5	296.4	15°	588.2	631.7
322.9	322.9	322.9	323.9	322.9	322.9	322.9	324.8	326.8	329.8	17.5°	482.2	535.2
355.3	354.8	354.3	356.3	354.3	354.8	355.3	357.3	359.2	361.2	20°	368.3	420.6
385.7	386.2	386.7	388.7	386.7	386.2	385.7	389.7	393.5	395.1	22.5°	258.9	303.2
418.1	418.1	418.1	421.0	418.1	418.1	418.1	421.0	424.0	425.4	25°	188.6	208.6
450.5	449.5	448.5	451.5	448.5	449.5	450.5	450.9	451.5	453.5	27.5°	167.7	175.5
478.0	477.0	476.0	479.0	476.0	477.0	478.0	479.0	480.0	481.0	30°	157.2	162.4
507.5	506.5	505.5	508.4	505.5	506.5	507.5	507.9	508.4	509.9	32.5°	141.7	146.9
534.0	534.9	535.9	539.8	535.9	534.9	534.0	535.4	536.8	538.4	35°	124.2	131.2
560.5	560.9	561.4	564.3	561.4	560.9	560.5	561.9	563.3	563.3	37.5°	115.5	120.7
582.0	581.6	581.0	584.0	581.0	581.6	582.0	582.0	582.0	582.0	40°	110.3	111.2
596.7	596.7	596.7	599.7	596.7	596.7	596.7	597.2	597.7	598.2	42.5°	106.0	106.0
613.5	613.5	613.5	617.3	613.5	613.5	613.5	614.4	615.4	616.9	45°	103.3	106.0
631.1	631.1	631.1	634.0	631.1	631.1	631.1	631.6	632.0	633.0	47.5°	105.1	116.4
646.8	647.3	647.8	650.7	647.8	647.3	646.8	645.3	643.8	643.4	50°	118.1	114.7
656.6	656.6	656.6	660.5	656.6	656.6	656.6	654.7	652.7	650.7	52.5°	120.7	107.8
663.5	664.5	665.5	668.4	665.5	664.5	663.5	663.5	663.5	662.1	55°	110.3	103.3
671.3	672.8	674.3	677.2	674.3	672.8	671.3	672.3	673.3	674.3	57.5°	99.0	90.4
679.2	680.6	682.2	685.0	682.2	680.6	679.2	679.2	679.2	679.7	59°	88.7	83.5
682.2	683.1	684.1	686.0	684.1	683.1	682.2	681.2	680.2	678.7	60°	82.6	80.8
684.1	684.6	685.0	687.0	685.0	684.6	684.1	683.1	682.2	680.2	62.5°	75.5	77.3
687.0	689.4	692.0	693.9	692.0	689.4	687.0	686.6	686.0	685.0	65°	70.3	73.8
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	67.5°	67.7	70.3
										70°	63.4	65.1
										72.5°	59.1	60.0
										75°	53.0	53.9
										77.5°	46.9	46.9
										80°	38.3	38.3
										82.5°	29.6	28.7
										85°	19.1	18.2
										87.5°	8.7	7.0
										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°
1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	110°	100.1	106.0	111.9
1643.0	1667.3	1686.4	1683.0	1723.8	1748.1	1751.5	1776.8	1801.1	112.5°	131.5	135.9	140.3
1344.1	1378.0	1411.0	1435.3	1499.6	1552.6	1593.4	1636.9	1688.2	115°	164.9	167.8	170.8
1071.3	1100.0	1153.9	1192.9	1260.7	1322.3	1382.3	1450.9	1509.2	117.5°	198.3	199.7	201.2
839.3	875.8	926.2	999.2	1060.0	1130.3	1206.0	1271.1	1368.4	120°	232.6	235.5	238.5
754.1	776.8	818.4	853.2	928.8	1003.5	1088.7	1178.1	1267.7	122.5°	266.0	269.0	271.8
666.5	706.3	745.4	795.9	861.9	943.6	1035.7	1132.1	1232.9	125°	299.3	301.8	304.3
581.2	634.2	676.9	731.6	805.4	908.8	1028.6	1148.7	1266.8	127.5°	332.7	333.2	333.7
477.0	526.6	601.2	656.8	753.3	882.8	1036.6	1202.5	1362.4	130°	363.2	364.2	365.1
375.3	428.3	513.5	596.0	702.0	868.8	1067.8	1291.1	1504.8	132.5°	396.5	397.1	397.5
268.4	340.5	424.9	529.1	657.6	860.1	1110.3	1400.5	1688.2	135°	427.0	428.0	428.9
200.7	251.1	353.7	467.5	608.2	844.6	1155.6	1502.2	1813.3	137.5°	455.4	457.3	459.3
179.0	214.7	281.5	401.5	547.3	814.1	1189.4	1598.6	1927.1	140°	481.9	484.8	487.8
156.3	184.2	237.2	338.8	492.6	767.2	1204.2	1650.0	2006.2	142.5°	511.3	513.3	515.3
137.4	163.3	217.2	314.6	464.9	714.2	1201.7	1701.2	2105.2	145°	539.8	540.3	540.8
125.1	147.7	208.6	308.5	443.1	665.6	1204.2	1783.8	2252.1	147.5°	563.3	563.9	564.3
115.5	141.7	201.6	295.5	432.6	638.5	1214.7	1856.8	2378.0	150°	582.0	582.0	582.0
115.5	139.9	184.2	277.1	427.4	641.2	1219.0	1913.2	2471.9	152.5°	598.7	598.7	598.7
121.6	131.2	171.1	266.8	431.0	660.3	1213.8	1970.5	2563.1	155°	618.3	617.3	616.3
115.5	122.5	162.4	265.0	431.0	674.2	1229.4	2041.8	2683.0	157.5°	634.0	633.6	633.0
109.4	113.8	159.9	262.3	422.2	687.2	1293.6	2174.7	2839.5	160°	642.8	642.8	642.8
101.7	106.9	156.3	258.0	412.7	703.7	1407.6	2398.0	3098.3	162.5°	648.8	649.7	650.7
92.1	102.6	151.2	251.1	406.7	733.3	1524.0	2623.9	3406.7	165°	660.5	660.5	660.5
88.7	98.2	139.0	234.5	400.6	765.4	1648.2	2840.2	3683.9	167.5°	675.3	673.8	672.3
86.0	94.7	128.5	222.4	395.3	781.1	1685.6	2922.7	3790.8	170°	680.2	679.2	678.2
84.4	93.0	122.5	212.0	389.2	782.0	1712.5	2954.1	3806.4	172.5°	677.2	677.2	677.2
81.7	89.5	110.3	190.4	370.1	781.1	1715.1	2974.1	3761.2	175°	678.2	677.7	677.2
77.3	86.0	111.2	179.0	335.3	744.5	1607.3	2877.6	3581.4	177.5°	684.1	683.1	682.2
73.8	83.5	117.3	181.5	298.9	650.7	1405.8	2577.9	3196.5	180°	687.0	687.0	687.0
68.6	81.7	122.5	187.7	288.4	540.4	1063.4	2105.2	2676.9				
63.4	80.8	126.8	192.0	277.1	444.8	736.8	1492.6	2003.6				
57.3	73.8	115.5	163.3	229.3	323.2	474.3	976.5	1381.4				
49.6	59.1	84.4	114.7	168.5	225.9	280.6	590.0	903.5				
40.9	44.3	60.0	73.8	112.1	133.8	155.6	332.7	631.7				
30.5	31.4	40.9	46.9	63.4	73.8	93.0	204.2	511.8				
17.3	20.0	27.8	31.4	38.3	46.9	60.8	130.3	401.5				
7.0	8.7	16.5	18.2	20.8	26.1	33.9	75.5	125.1				
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°	1705.5	1705.5	1705.5	1705.5
142.8	145.3	146.2	147.2	146.7	146.2	145.3	144.3	2.5°	1825.4	1843.7	1859.3	1871.5
173.2	175.7	177.1	178.7	177.1	175.7	174.7	173.7	5°	1742.9	1785.5	1836.8	1880.2
204.2	207.1	209.0	211.0	208.6	206.1	205.2	204.2	7.5°	1596.1	1650.0	1733.3	1784.7
239.9	241.5	243.4	245.3	242.9	240.5	239.5	238.5	10°	1457.1	1536.1	1627.4	1701.2
272.8	273.8	275.8	277.8	275.3	272.8	271.8	270.9	12.5°	1362.4	1460.6	1547.4	1630.0
305.7	307.2	308.2	309.2	306.7	304.3	304.3	304.3	15°	1336.3	1436.2	1514.5	1590.0
336.1	338.6	339.1	339.6	339.6	339.6	339.1	338.6	17.5°	1388.4	1488.3	1555.2	1601.3
367.6	370.0	372.0	374.0	374.0	374.0	373.0	372.0	20°	1510.9	1617.8	1660.3	1656.8
400.5	403.4	405.9	408.3	407.3	406.3	406.3	406.3	22.5°	1678.7	1790.7	1790.7	1756.0
431.8	434.8	437.3	439.7	439.2	438.7	440.2	441.7	25°	1900.2	1980.9	1936.7	1870.6
461.8	464.2	465.2	466.2	466.7	467.2	469.6	472.1	27.5°	2057.4	2133.0	2055.7	1947.1
489.3	490.7	491.7	492.7	493.7	494.7	497.1	499.5	30°	2187.7	2243.3	2145.2	2014.0
516.3	517.2	520.2	523.2	523.2	523.2	523.6	524.1	32.5°	2302.4	2343.3	2213.9	2084.3
543.3	545.7	548.7	551.6	551.1	550.6	549.1	547.7	35°	2439.7	2454.5	2285.1	2146.9
566.8	569.3	571.7	574.2	574.6	575.2	573.7	572.2	37.5°	2591.8	2604.0	2387.5	2215.6
584.0	586.0	587.4	588.9	590.4	591.8	593.3	594.8	40°	2770.7	2727.3	2463.2	2279.0
599.2	599.7	601.1	602.7	604.6	606.5	609.1	611.5	42.5°	2881.0	2809.9	2517.9	2312.0
615.4	614.4	616.9	619.3	621.8	624.2	625.2	626.2	45°	2968.0	2870.6	2543.1	2331.1
632.6	632.0	634.0	636.0	637.0	638.0	638.0	638.0	47.5°	3074.9	2960.2	2587.4	2365.9
644.4	645.8	648.8	651.7	650.2	648.8	648.3	647.8	50°	3215.7	3084.4	2699.5	2464.1
652.7	654.7	656.6	658.5	658.1	657.6	656.6	655.7	52.5°	3504.1	3341.5	2901.1	2635.2
660.1	659.5	662.1	664.5	665.9	667.4	666.5	665.5	55°	3835.9	3682.2	3223.4	2917.5
668.9	665.5	668.4	671.3	673.3	675.3	675.3	675.3	57.5°	4101.8	3998.4	3510.9	3173.0
675.7	673.3	674.8	676.2	678.7	681.2	682.2	683.1	59°	4199.9	4155.6	3714.3	3389.3
676.7	676.2	677.7	679.2	680.2	681.2	682.2	683.1	60°	4236.5	4274.8	3822.1	3521.4
677.2	677.2	679.7	682.2	682.6	683.1	682.2	681.2	62.5°	4261.6	4427.7	4172.2	3915.9
681.6	681.2	683.6	686.0	687.0	688.0	686.6	685.0	65°	4209.5	4452.8	4313.8	4156.5
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	67.5°	3982.7	4273.9	4246.8	4108.8
								70°	3518.8	3842.9	3936.7	3740.4
								72.5°	2647.3	3049.7	3561.4	3253.8
								75°	1724.7	2096.6	3040.9	2787.2
								77.5°	1080.0	1308.5	2169.5	1952.3
								80°	718.6	841.0	1377.1	1253.8
								82.5°	540.4	596.0	947.0	890.6
								85°	285.0	363.2	736.8	934.0
								87.5°	106.9	119.0	554.3	835.0
								90°	6.8	6.8	8.7	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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**CANDELA DISTRIBUTION (continued):**

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	110°	114.8	113.8	115.3	116.8	117.8
1881.9	1897.6	1907.1	1900.2	1911.4	1914.1	1901.9	112.5°	144.3	144.3	145.3	146.2	146.7
1916.6	1960.1	1991.5	2013.1	2021.7	2029.6	2026.1	115°	174.7	173.7	174.7	175.7	177.1
1852.3	1919.3	1977.5	2017.4	2031.3	2041.8	2032.2	117.5°	205.2	204.2	205.2	206.1	208.6
1781.1	1850.7	1905.3	1945.3	1944.5	1954.9	1936.7	120°	238.5	238.5	239.5	240.5	242.9
1714.2	1782.0	1830.7	1828.9	1816.7	1786.3	1781.1	122.5°	271.8	270.9	271.8	272.8	275.3
1661.2	1696.9	1709.0	1706.4	1671.7	1654.3	1651.6	125°	304.3	304.3	304.3	304.3	306.7
1635.2	1633.4	1605.6	1575.2	1542.2	1540.4	1517.9	127.5°	340.5	338.6	339.1	339.6	339.6
1639.5	1583.0	1531.8	1479.7	1444.0	1436.2	1438.8	130°	373.0	372.0	373.0	374.0	374.0
1694.2	1594.3	1497.8	1444.9	1403.2	1391.0	1396.2	132.5°	407.3	406.3	406.3	406.3	407.3
1762.8	1629.1	1509.2	1428.3	1394.5	1379.8	1382.3	135°	442.7	441.7	440.2	438.7	439.2
1809.0	1669.1	1546.5	1446.6	1400.5	1386.6	1395.3	137.5°	473.0	472.1	469.6	467.2	466.7
1868.0	1723.8	1597.0	1493.5	1424.9	1406.7	1412.8	140°	501.5	499.5	497.1	494.7	493.7
1926.2	1782.9	1668.2	1550.8	1467.5	1433.5	1443.1	142.5°	526.0	524.1	523.6	523.2	523.2
1988.8	1851.5	1736.0	1629.1	1530.9	1477.9	1490.1	145°	549.7	547.7	549.1	550.6	551.1
2061.8	1931.4	1832.5	1734.2	1633.4	1589.1	1594.3	147.5°	574.2	572.2	573.7	575.2	574.6
2132.1	2009.7	1946.2	1873.2	1814.1	1746.3	1746.3	150°	598.7	594.8	593.3	591.8	590.4
2173.9	2111.3	2093.9	2073.1	2038.3	1989.7	1979.2	152.5°	616.3	611.5	609.1	606.5	604.6
2225.1	2232.1	2272.0	2313.8	2324.2	2276.3	2261.7	155°	629.2	626.2	625.2	624.2	621.8
2321.6	2394.5	2525.8	2639.6	2662.1	2701.2	2656.1	157.5°	642.8	638.0	638.0	638.0	637.0
2457.1	2591.8	2813.3	2999.2	3052.2	3055.8	3059.2	160°	653.7	647.8	648.3	648.8	650.2
2611.7	2804.6	3097.4	3319.0	3413.6	3438.9	3420.7	162.5°	661.5	655.7	656.6	657.6	658.1
2876.7	3051.5	3372.0	3610.8	3732.5	3791.7	3775.9	165°	669.3	665.5	666.5	667.4	665.9
3139.1	3356.3	3638.8	3874.2	4003.7	4069.7	4083.5	167.5°	681.2	675.3	675.3	675.3	673.3
3318.1	3521.4	3782.0	3999.3	4127.0	4206.0	4213.1	170°	688.0	683.1	682.2	681.2	678.7
3427.7	3613.5	3868.1	4059.2	4187.0	4253.8	4278.2	172.5°	688.0	683.1	682.2	681.2	680.2
3759.5	3793.4	3967.2	4093.1	4182.6	4213.1	4231.3	175°	686.0	681.2	682.2	683.1	682.6
3915.0	3773.4	3753.4	3831.6	3839.4	3819.4	3794.2	177.5°	689.0	685.0	686.6	688.0	687.0
3698.7	3367.7	3245.1	3234.7	3202.5	3189.5	3109.7	180°	687.0	687.0	687.0	687.0	687.0
3212.1	2735.1	2518.8	2401.5	2472.8	2470.1	2388.4						
2706.4	2220.8	1940.1	1771.5	1750.8	1747.2	1676.0						
2198.2	1742.9	1497.0	1415.4	1317.2	1287.6	1299.8						
1584.8	1244.2	1192.1	1254.7	1262.5	1239.8	1224.2						
998.3	935.8	986.1	1100.0	1166.9	1137.3	1148.7						
832.4	736.8	740.2	860.1	905.3	912.3	888.9						
923.5	737.7	604.6	590.0	574.3	361.5	503.1						
832.4	570.9	336.2	277.1	170.3	98.2	101.7						
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°	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5
147.2	146.2	145.3	142.8	140.3	135.9	2.5°	1899.3	1882.8	1864.5	1840.2	1844.6	1815.0
178.7	177.1	175.7	173.2	170.8	167.8	5°	1999.2	1970.5	1931.4	1881.9	1835.9	1776.8
211.0	209.0	207.1	204.2	201.2	199.7	7.5°	1988.8	1942.8	1877.5	1802.9	1742.0	1656.8
245.3	243.4	241.5	239.9	238.5	235.5	10°	1899.3	1839.3	1786.3	1709.0	1630.0	1555.2
277.8	275.8	273.8	272.8	271.8	269.0	12.5°	1774.2	1740.3	1694.2	1636.0	1559.5	1483.1
309.2	308.2	307.2	305.7	304.3	301.8	15°	1637.8	1640.3	1612.5	1597.0	1558.6	1497.8
339.6	339.1	338.6	336.1	333.7	333.2	17.5°	1525.7	1551.7	1566.6	1590.9	1595.2	1565.7
374.0	372.0	370.0	367.6	365.1	364.2	20°	1450.9	1487.4	1533.5	1600.4	1670.8	1701.2
408.3	405.9	403.4	400.5	397.5	397.1	22.5°	1409.4	1454.4	1528.3	1650.0	1778.6	1855.9
439.7	437.3	434.8	431.8	428.9	428.0	25°	1401.4	1461.5	1564.8	1713.3	1880.2	1988.8
466.2	465.2	464.2	461.8	459.3	457.3	27.5°	1414.5	1492.6	1615.2	1784.7	1948.9	2106.1
492.7	491.7	490.7	489.3	487.8	484.8	30°	1456.2	1547.4	1681.2	1863.6	2033.9	2190.3
523.2	520.2	517.2	516.3	515.3	513.3	32.5°	1496.1	1609.1	1756.8	1934.9	2106.1	2261.7
551.6	548.7	545.7	543.3	540.8	540.3	35°	1560.4	1674.4	1825.4	1989.7	2155.7	2332.0
574.2	571.7	569.3	566.8	564.3	563.9	37.5°	1658.6	1758.5	1879.3	2032.2	2205.1	2387.5
588.9	587.4	586.0	584.0	582.0	582.0	40°	1798.5	1864.5	1942.8	2063.5	2229.4	2425.0
602.7	601.1	599.7	599.2	598.7	598.7	42.5°	2007.9	2021.7	2048.8	2111.3	2251.2	2468.5
619.3	616.9	614.4	615.4	616.3	617.3	45°	2278.1	2236.4	2213.0	2204.2	2299.8	2496.2
636.0	634.0	632.0	632.6	633.0	633.6	47.5°	2591.8	2510.1	2416.2	2371.1	2393.6	2540.5
651.7	648.8	645.8	644.4	642.8	642.8	50°	3000.1	2867.2	2683.0	2552.6	2541.3	2670.8
658.5	656.6	654.7	652.7	650.7	649.7	52.5°	3374.7	3200.8	2968.9	2815.1	2752.5	2914.1
664.5	662.1	659.5	660.1	660.5	660.5	55°	3728.2	3594.4	3332.0	3140.8	3119.2	3236.4
671.3	668.4	665.5	668.9	672.3	673.8	57.5°	4038.4	3922.8	3708.2	3458.8	3467.5	3581.4
676.2	674.8	673.3	675.7	678.2	679.2	59°	4199.1	4102.6	3903.8	3650.0	3669.1	3825.5
679.2	677.7	676.2	676.7	677.2	677.2	60°	4256.5	4175.7	3986.3	3772.5	3796.9	3959.3
682.2	679.7	677.2	677.2	677.2	677.7	62.5°	4252.1	4199.9	4062.8	3962.0	4086.2	4205.2
686.0	683.6	681.2	681.6	682.2	683.1	65°	3846.4	3767.3	3751.7	3928.1	4167.9	4282.5
687.0	687.0	687.0	687.0	687.0	687.0	67.5°	3059.2	3096.5	3245.1	3548.3	3950.7	4117.4
						70°	2272.0	2338.1	2536.2	2916.7	3469.3	3757.8
						72.5°	1670.8	1736.9	1919.3	2336.3	2854.2	3109.7
						75°	1311.1	1331.1	1462.4	1789.9	2249.4	2458.8
						77.5°	1211.2	1151.2	1097.4	1272.9	1517.0	1696.9
						80°	1127.7	1014.0	887.1	940.1	999.2	1190.3
						82.5°	875.8	800.2	701.1	768.9	796.8	802.8
						85°	512.7	456.1	577.8	818.4	809.7	709.0
						87.5°	180.6	234.5	264.1	453.6	548.2	474.3
						90°	7.8	10.5	15.7	16.1	19.9	10.2
						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°
1705.5	1705.5	1705.5	110°	100.1	92.7	85.4	79.1	72.7	69.7	66.7
1791.6	1767.2	1765.5	112.5°	131.5	125.1	118.8	111.4	104.0	100.6	97.2
1729.9	1675.1	1657.7	115°	164.9	160.4	156.0	150.2	144.3	140.3	136.5
1583.0	1519.7	1506.5	117.5°	198.3	195.8	193.3	189.5	185.5	183.1	180.6
1459.7	1389.3	1377.1	120°	232.6	230.7	228.7	225.3	221.8	220.4	218.8
1396.2	1329.3	1314.6	122.5°	266.0	264.0	262.0	259.1	256.2	255.7	255.2
1420.6	1346.6	1338.9	125°	299.3	296.4	293.5	291.9	290.5	289.5	288.5
1511.8	1433.5	1437.1	127.5°	332.7	329.8	326.8	324.8	322.9	322.9	322.9
1668.2	1617.8	1605.6	130°	363.2	361.2	359.2	357.3	355.3	354.8	354.3
1873.2	1818.5	1802.9	132.5°	396.5	395.1	393.5	389.7	385.7	386.2	386.7
2047.9	2020.1	2009.7	135°	427.0	425.4	424.0	421.0	418.1	418.1	418.1
2173.9	2186.8	2176.4	137.5°	455.4	453.5	451.5	450.9	450.5	449.5	448.5
2274.7	2318.1	2312.9	140°	481.9	481.0	480.0	479.0	478.0	477.0	476.0
2378.0	2462.3	2465.8	142.5°	511.3	509.9	508.4	507.9	507.5	506.5	505.5
2454.5	2603.1	2633.5	145°	539.8	538.4	536.8	535.4	534.0	534.9	535.9
2552.6	2751.6	2782.9	147.5°	563.3	563.3	563.3	561.9	560.5	560.9	561.4
2627.5	2861.1	2899.3	150°	582.0	582.0	582.0	582.0	582.0	581.6	581.0
2700.3	2951.5	2993.2	152.5°	598.7	598.2	597.7	597.2	596.7	596.7	596.7
2760.3	3040.9	3083.5	155°	618.3	616.9	615.4	614.4	613.5	613.5	613.5
2828.0	3127.9	3169.5	157.5°	634.0	633.0	632.0	631.6	631.1	631.1	631.1
2949.8	3264.2	3313.8	160°	642.8	643.4	643.8	645.3	646.8	647.3	647.8
3211.2	3517.0	3587.4	162.5°	648.8	650.7	652.7	654.7	656.6	656.6	656.6
3589.2	3866.3	3922.0	165°	660.5	662.1	663.5	663.5	663.5	664.5	665.5
3929.7	4103.5	4118.3	167.5°	675.3	674.3	673.3	672.3	671.3	672.8	674.3
4069.7	4168.8	4164.4	170°	680.2	679.7	679.2	679.2	679.2	680.6	682.2
4172.2	4184.3	4160.1	172.5°	677.2	678.7	680.2	681.2	682.2	683.1	684.1
4227.9	4112.2	4070.5	175°	678.2	680.2	682.2	683.1	684.1	684.6	685.0
4082.7	3922.0	3867.2	177.5°	684.1	685.0	686.0	686.6	687.0	689.4	692.0
3663.8	3578.8	3516.2	180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0
3116.5	2901.1	2860.2								
2362.5	2078.3	2017.4								
1650.8	1310.2	1227.6								
1085.2	841.0	809.7								
703.7	558.7	549.1								
490.9	366.7	338.0								
301.5	122.5	117.3								
93.9	56.4	50.3								
7.5	8.4	8.4								
4.0	4.0	4.0								
4.9	4.9	4.9								
6.8	6.8	6.8								
7.8	7.8	7.8								
10.8	10.8	10.8								
21.6	20.8	20.6								
41.2	40.4	40.2								



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

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