

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: P271736

Luminaire Tested: **IST-AF-1000-LED-E1-SLR-7027-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271736  
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: IST-AF-1000-LED-E1-SLR-7027-ULG  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCUELED 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: 6240.7 lumens  
Efficiency: N/A  
Efficacy: 87.5 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): 71.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

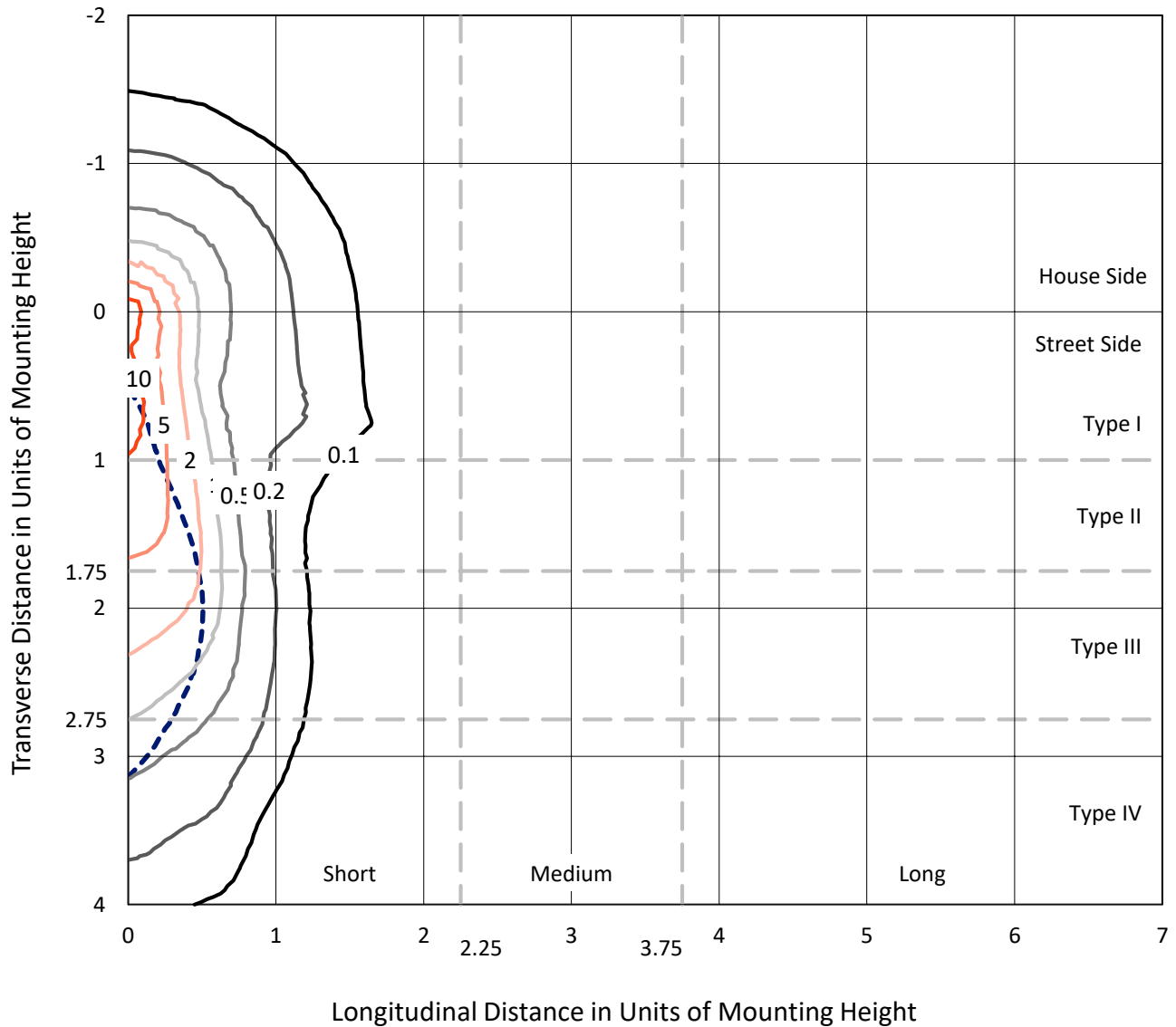


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

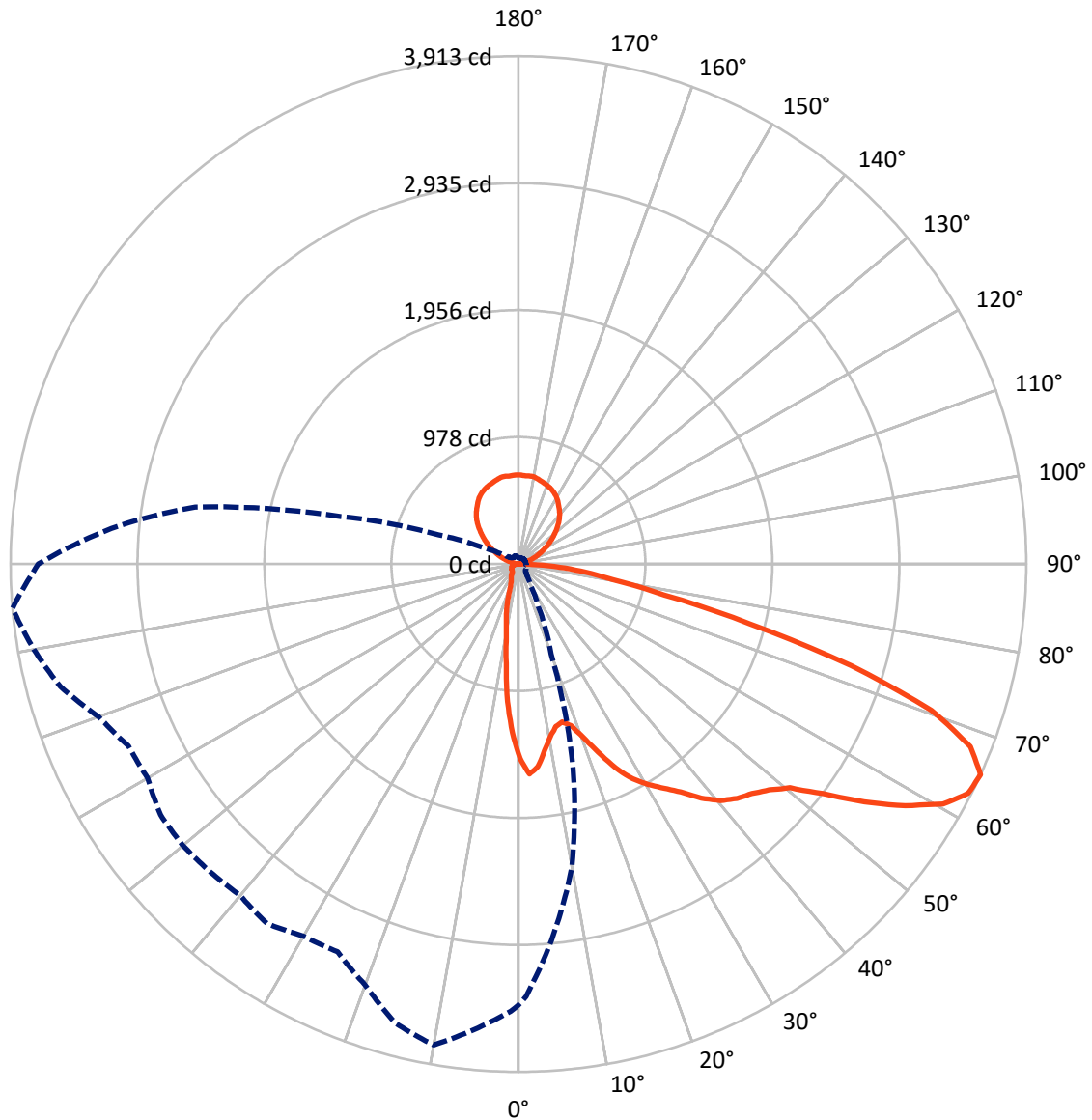


Based on 10 foot mounting height. Maximum calculated value = 15 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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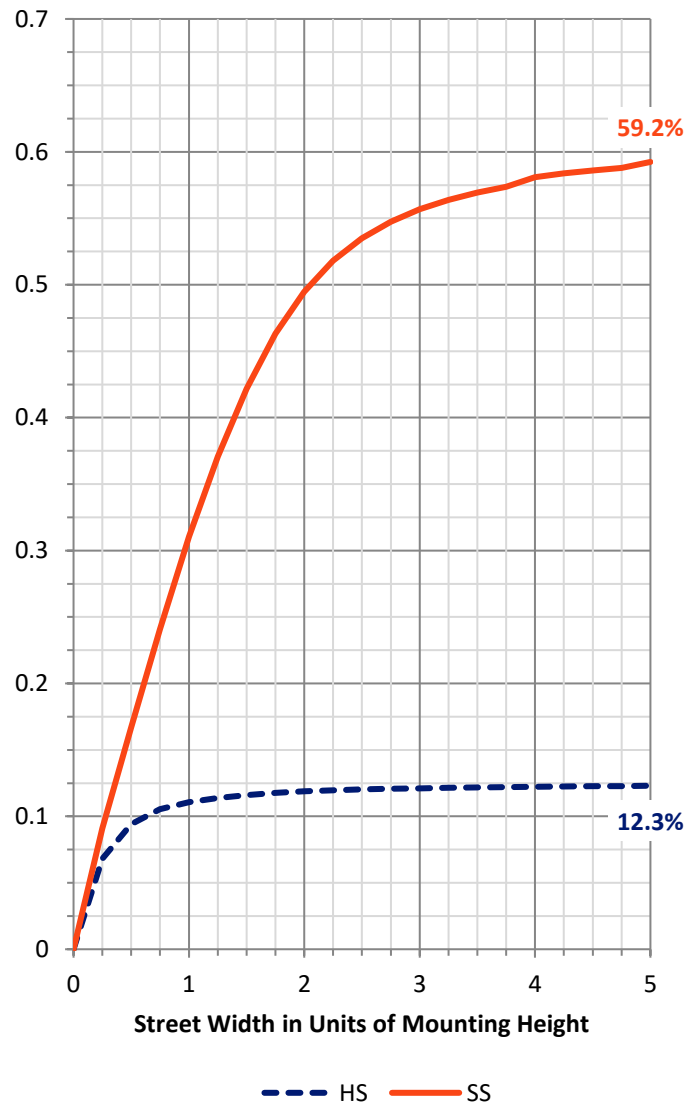
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	778.7	851.5	1630.2
	% Fixture	12.5	13.6	26.1
<b>Street Side</b>	Lumens	3758.8	851.7	4610.5
	% Fixture	60.2	13.6	73.9
<b>Total</b>	Lumens	4537.5	1703.2	6240.7
	% Fixture	72.7	27.3	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.0	1.8
10°-20°	213.6	3.4
20°-30°	304.6	4.9
30°-40°	442.0	7.1
40°-50°	632.2	10.1
50°-60°	970.7	15.6
60°-70°	1123.6	18.0
70°-80°	573.2	9.2
80°-90°	166.4	2.7
90°-100°	9.3	0.1
100°-110°	56.3	0.9
110°-120°	163.0	2.6
120°-130°	268.1	4.3
130°-140°	330.6	5.3
140°-150°	338.2	5.4
150°-160°	284.9	4.6
160°-170°	187.6	3.0
170°-180°	65.0	1.0
0°-90°	4537.5	72.7
0°-180°	6240.7	100.0

**Coefficient of Utilization**



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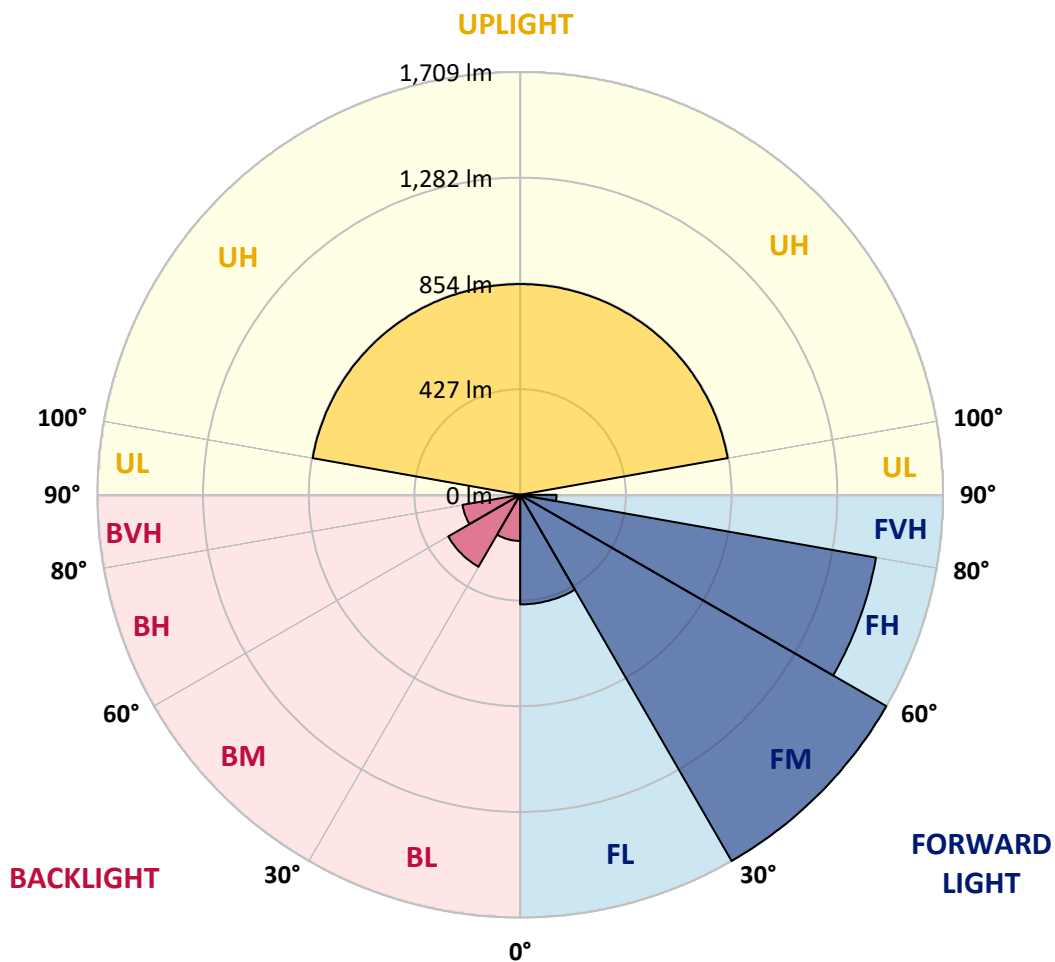
CATALOG NUMBER: IST-AF-1000-LED-E1-SLR-7027-ULG

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	443.1	7.1			
FM	(30°-60°)	1708.9	27.4			
FH	(60°-80°)	1460.1	23.4			G1/1800
FVH	(80°-90°)	146.7	2.4			G2/225
BL	(0°-30°)	186.3	3.0	B1/500		
BM	(30°-60°)	336.0	5.4	B1/1000		
BH	(60°-80°)	236.7	3.8	B1/500		G1/500
BVH	(80°-90°)	19.7	0.3			G1/100
UL	(90°-100°)	9.3	0.1		U1/10	
UH	(100°-180°)	851.5	13.6		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°	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7
2.5°	1551.5	1542.3	1530.8	1510.9	1493.4	1468.2	1462.1	1430.8	1411.0	1415.5	1379.7
5°	1456.7	1451.4	1423.2	1378.9	1349.8	1292.6	1259.7	1243.0	1195.6	1189.5	1176.6
7.5°	1323.9	1307.9	1262.1	1207.1	1157.5	1115.4	1062.8	1022.3	986.5	964.3	925.3
10°	1210.2	1193.4	1143.7	1076.5	1017.0	958.2	915.5	862.7	811.6	771.9	740.7
12.5°	1155.2	1136.9	1078.9	1000.9	934.6	861.3	800.9	749.0	720.7	700.9	675.0
15°	1176.6	1149.8	1080.3	987.1	904.8	826.9	762.8	707.0	673.4	642.8	612.4
17.5°	1262.8	1230.0	1150.5	1038.4	923.9	823.0	731.4	668.1	614.6	568.8	527.6
20°	1411.0	1386.5	1271.2	1114.0	965.0	825.4	704.7	621.4	556.6	498.6	443.7
22.5°	1584.3	1547.6	1434.6	1216.2	1017.7	839.1	687.9	582.6	505.5	427.5	368.0
25°	1766.0	1737.7	1588.0	1353.7	1098.6	867.3	675.0	548.1	445.1	358.9	293.2
27.5°	1912.6	1887.4	1739.3	1485.8	1172.7	891.7	655.9	515.4	397.1	293.2	220.6
30°	2032.4	2011.0	1856.1	1594.2	1262.8	900.1	629.2	477.2	343.6	236.7	182.4
32.5°	2166.8	2143.2	1968.3	1669.8	1303.4	892.6	598.6	441.2	300.8	209.1	156.6
35°	2314.1	2286.6	2093.5	1751.4	1336.9	865.8	572.6	415.4	280.2	190.1	139.0
37.5°	2445.5	2427.8	2206.5	1832.5	1375.0	821.5	547.4	387.1	266.4	176.3	125.2
40°	2547.9	2543.2	2331.7	1899.6	1404.8	789.5	526.9	364.9	248.9	171.0	120.6
42.5°	2630.2	2628.7	2434.0	1959.9	1412.5	761.2	510.8	345.1	232.9	158.0	122.9
45°	2709.6	2708.9	2533.3	2043.9	1417.9	762.8	498.6	332.9	219.2	149.7	116.0
47.5°	2785.3	2796.7	2637.2	2160.7	1474.3	788.7	494.0	321.4	208.5	140.5	110.0
50°	2911.9	2900.5	2801.3	2318.7	1565.2	839.1	486.3	311.5	198.5	132.1	103.8
52.5°	3152.5	3139.5	3050.9	2530.3	1664.4	891.0	476.4	297.8	187.0	122.9	96.9
55°	3446.4	3464.0	3341.1	2787.5	1799.6	934.6	465.7	279.5	171.8	112.3	92.3
57.5°	3619.0	3604.4	3464.0	2935.6	1882.8	956.7	458.9	258.0	148.1	103.0	87.9
59°	3659.4	3635.0	3443.5	2960.8	1904.9	945.9	455.0	237.4	135.9	98.5	85.5
60°	3655.7	3625.9	3410.5	2944.8	1911.1	933.0	449.0	225.3	129.1	96.2	84.7
62.5°	3577.1	3530.4	3224.3	2750.9	1825.5	868.1	423.7	196.2	119.8	93.2	80.2
65°	3398.4	3332.7	2911.2	2372.2	1629.3	739.0	366.5	185.5	122.2	91.5	77.2
67.5°	3089.9	3037.2	2508.9	1963.0	1298.7	597.0	316.8	181.0	125.2	93.2	72.5
70°	2513.5	2468.5	1957.6	1469.8	972.8	474.9	287.9	178.7	122.9	89.3	68.7
72.5°	1772.9	1694.9	1301.0	1029.2	616.9	381.8	249.7	168.7	119.8	86.2	62.6
75°	1078.9	1093.3	826.9	749.7	389.3	261.9	196.2	142.0	106.1	77.2	56.5
77.5°	711.5	710.8	609.9	529.1	197.8	162.6	139.0	109.1	83.3	63.4	48.9
80°	482.5	487.9	442.9	361.1	110.0	97.7	90.9	79.4	61.1	48.1	40.4
82.5°	297.0	297.8	342.8	270.3	73.3	61.8	58.0	53.4	43.5	37.4	31.4
85°	103.0	105.4	119.8	190.9	49.7	40.4	40.4	37.4	32.8	25.2	20.6
87.5°	44.3	43.5	51.9	51.9	24.4	20.6	19.0	19.0	18.3	13.7	11.5
90°	7.9	7.2	7.2	8.9	10.7	12.7	12.5	13.1	13.1	11.9	9.9
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°	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7
2.5°	1368.9	1360.6	1336.9	1330.7	1338.5	1323.1	1319.3	1315.5	1287.2	1301.7	1284.9
5°	1144.5	1142.1	1094.0	1104.1	1094.0	1077.2	1070.4	1086.5	1058.2	1064.3	1068.2
7.5°	879.5	870.4	838.3	817.0	803.9	792.6	778.0	754.4	772.6	768.9	797.9
10°	713.8	694.0	674.2	644.4	627.6	611.6	594.8	585.7	564.2	561.9	552.0
12.5°	654.3	626.1	600.9	574.9	557.4	525.3	498.6	481.9	468.1	446.6	430.6
15°	574.9	551.2	518.4	493.2	465.7	436.8	410.7	389.3	379.4	359.6	350.5
17.5°	494.8	458.9	419.1	394.0	355.8	326.1	304.6	290.9	276.4	264.2	253.5
20°	398.6	352.0	309.3	277.1	247.3	218.4	208.5	191.7	185.5	181.0	184.8
22.5°	303.1	255.0	210.7	186.3	170.3	162.6	154.1	151.2	148.8	148.1	149.7
25°	222.2	181.6	160.3	151.2	145.1	140.5	137.4	135.1	133.6	132.9	133.6
27.5°	171.8	150.4	139.8	133.6	129.1	126.0	124.4	122.2	121.5	120.6	121.5
30°	148.8	137.4	129.7	123.7	118.4	113.0	110.7	110.0	110.7	111.5	110.7
32.5°	129.7	121.5	113.0	107.7	103.8	100.8	100.8	99.3	99.3	101.6	102.2
35°	117.6	109.1	103.0	96.2	91.5	88.6	86.2	84.7	85.5	85.5	87.9
37.5°	107.7	101.6	96.2	90.1	85.5	82.5	80.9	79.4	78.6	77.8	77.8
40°	100.8	96.9	92.3	86.2	81.7	78.6	77.2	75.5	74.8	74.1	74.1
42.5°	100.8	93.2	90.1	84.7	79.4	76.4	74.1	72.5	71.0	71.0	71.0
45°	110.7	95.4	90.1	84.0	78.6	74.8	72.5	70.2	68.7	68.7	67.9
47.5°	107.7	106.9	91.5	84.0	79.4	74.8	71.8	69.5	67.9	67.2	66.5
50°	102.2	111.5	102.2	86.2	79.4	74.1	71.0	68.7	66.5	65.7	65.7
52.5°	99.3	103.8	106.1	89.3	80.2	74.1	70.2	67.9	66.5	64.9	64.0
55°	91.5	97.7	101.6	87.9	80.2	72.5	68.7	66.5	64.0	63.4	62.6
57.5°	84.0	88.6	97.7	87.9	77.8	71.8	67.2	64.0	62.6	61.8	61.1
59°	81.7	81.7	87.0	90.1	76.4	71.0	66.5	63.4	61.8	61.1	59.6
60°	79.4	79.4	82.5	92.3	75.5	70.2	65.7	62.6	60.4	60.4	59.6
62.5°	76.4	74.1	75.5	86.2	73.3	68.7	64.0	61.1	58.7	58.7	58.0
65°	72.5	69.5	69.5	71.8	68.7	65.7	62.6	59.6	56.5	56.5	57.2
67.5°	68.7	65.7	64.9	64.9	63.4	62.6	59.6	56.5	55.0	55.0	55.0
70°	63.4	61.1	60.4	58.7	58.7	58.0	55.8	53.4	51.9	52.7	51.9
72.5°	57.2	55.8	54.2	54.2	53.4	52.7	50.3	48.9	48.1	48.9	48.9
75°	51.1	48.9	48.9	47.3	47.3	46.6	44.3	43.5	42.8	43.5	44.3
77.5°	43.5	42.0	41.2	41.2	41.2	41.2	38.2	37.4	37.4	39.0	39.0
80°	35.9	35.1	34.3	34.3	34.3	33.6	32.1	31.4	31.4	32.1	32.8
82.5°	27.5	25.9	25.9	26.7	27.5	27.5	25.2	23.6	23.6	25.2	26.7
85°	18.3	18.3	18.3	19.0	19.0	19.9	18.3	16.0	16.8	17.6	19.9
87.5°	9.9	10.7	9.9	9.2	10.7	9.9	9.9	9.2	9.9	10.7	11.5
90°	9.9	9.9	10.2	10.4	9.6	10.4	9.4	9.2	7.6	7.6	9.4
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°	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7
2.5°	1300.3	1287.2	1280.4	1307.1	1304.8	1281.9	1281.9	1297.9	1298.7	1284.9	1301.0
5°	1072.8	1059.7	1071.9	1061.3	1067.4	1066.6	1075.8	1059.0	1065.9	1059.7	1045.3
7.5°	795.6	821.5	835.2	817.6	839.8	851.3	835.2	851.3	826.1	805.5	825.4
10°	547.4	576.4	571.1	599.3	609.9	616.1	627.6	613.1	595.6	590.2	575.6
12.5°	424.4	418.4	416.2	427.5	434.4	424.4	432.9	423.7	414.6	398.6	397.8
15°	332.1	322.2	315.3	302.4	297.8	300.0	303.9	303.9	285.5	286.3	293.2
17.5°	252.0	249.7	244.2	233.6	226.7	229.1	228.3	224.5	222.2	223.7	232.1
20°	189.4	187.0	190.1	193.1	190.9	191.7	188.6	184.8	183.3	184.8	186.3
22.5°	149.7	152.7	156.6	161.1	161.9	165.6	164.9	165.6	162.6	161.1	157.2
25°	136.6	138.2	135.9	136.6	136.6	140.5	139.8	139.8	136.6	135.9	136.6
27.5°	120.6	119.8	119.8	121.5	121.5	123.7	125.2	123.7	120.6	119.8	120.6
30°	111.5	110.7	110.0	110.7	110.0	110.7	112.3	112.3	110.7	108.4	109.1
32.5°	102.2	102.2	101.6	102.2	101.6	101.6	103.0	100.8	100.8	100.0	100.0
35°	90.1	91.5	93.2	94.0	94.0	94.0	95.4	93.2	92.3	91.5	91.5
37.5°	77.8	79.4	84.0	86.2	87.0	88.6	89.3	87.9	86.2	84.7	83.3
40°	74.1	74.1	75.5	78.6	81.7	82.5	84.0	81.7	80.9	78.6	76.4
42.5°	71.0	71.8	71.8	72.5	73.3	74.8	77.2	74.8	73.3	71.8	69.5
45°	68.7	68.7	68.7	68.7	67.9	67.9	68.7	67.2	66.5	65.7	65.7
47.5°	67.2	66.5	65.7	64.9	64.0	63.4	63.4	61.8	61.8	61.8	61.8
50°	65.7	64.0	63.4	62.6	61.1	61.1	61.1	59.6	58.7	58.7	59.6
52.5°	63.4	62.6	61.8	61.1	60.4	59.6	59.6	58.0	57.2	57.2	57.2
55°	62.6	61.8	60.4	59.6	58.7	59.6	58.7	58.0	56.5	56.5	56.5
57.5°	60.4	61.1	60.4	58.7	58.7	58.7	58.7	57.2	56.5	55.0	55.8
59°	59.6	60.4	59.6	58.7	58.0	58.7	58.7	56.5	55.8	55.0	55.0
60°	58.7	59.6	58.7	58.0	58.0	58.7	58.0	57.2	55.8	53.4	54.2
62.5°	58.0	58.0	57.2	57.2	56.5	57.2	56.5	55.0	53.4	51.9	51.1
65°	56.5	56.5	55.8	55.8	55.0	55.0	55.0	53.4	51.9	50.3	50.3
67.5°	55.8	55.0	54.2	54.2	53.4	53.4	53.4	51.9	49.7	48.9	48.1
70°	52.7	51.9	51.9	51.1	50.3	51.1	51.9	49.7	47.3	45.8	45.1
72.5°	49.7	48.9	48.9	48.1	48.1	48.9	49.7	47.3	44.3	42.8	42.0
75°	45.1	44.3	44.3	44.3	44.3	45.8	45.8	43.5	41.2	39.0	37.4
77.5°	39.0	39.7	39.7	39.7	39.7	41.2	41.2	39.7	37.4	35.9	33.6
80°	33.6	33.6	34.3	34.3	35.1	35.1	34.3	33.6	32.8	31.4	28.3
82.5°	28.3	28.3	28.3	28.3	28.3	27.5	25.9	27.5	27.5	25.9	23.6
85°	22.2	22.2	22.2	22.9	22.9	20.6	18.3	18.3	20.6	19.9	18.3
87.5°	12.9	12.9	13.7	16.0	14.6	13.7	11.5	12.1	11.5	12.9	10.7
90°	11.9	11.0	11.0	8.6	8.4	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°
1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	110°	79.1
1302.5	1305.6	1312.4	1310.2	1335.4	1327.8	1345.3	1368.9	1391.0	1380.4	1383.5	112.5°	111.4
1071.2	1075.0	1046.0	1063.5	1089.6	1078.9	1075.0	1110.1	1101.7	1141.5	1108.6	115°	150.2
793.2	784.1	770.4	763.5	744.4	744.4	780.3	796.3	794.0	821.5	849.8	117.5°	189.5
557.4	546.7	529.9	525.3	544.4	553.5	569.5	585.7	607.0	638.2	656.6	120°	225.3
409.3	405.5	409.3	420.7	438.2	451.2	475.7	503.9	527.6	552.7	577.3	122.5°	259.1
309.3	316.8	326.7	334.3	348.1	372.5	385.6	416.8	438.2	460.4	488.7	125°	291.9
240.5	245.1	247.3	250.4	261.9	279.5	279.5	311.5	339.8	368.8	392.4	127.5°	324.8
183.3	183.3	175.6	180.2	181.6	180.2	189.4	207.7	226.0	245.1	282.4	130°	357.3
153.5	148.8	146.6	145.9	146.6	149.7	155.0	161.9	164.9	173.4	187.8	132.5°	389.7
135.9	135.1	132.9	132.9	134.4	135.1	140.5	146.6	148.1	150.4	155.8	135°	421.0
119.8	121.5	123.7	122.9	123.7	125.2	129.1	134.4	137.4	138.2	142.0	137.5°	450.9
108.4	110.0	110.7	113.0	113.0	113.7	116.8	122.2	124.4	128.3	132.1	140°	479.0
100.8	101.6	102.2	101.6	102.2	102.2	106.1	111.5	114.5	116.8	119.1	142.5°	507.9
92.3	91.5	91.5	91.5	89.3	88.6	90.1	95.4	96.2	98.5	103.8	145°	535.4
82.5	80.2	78.6	78.6	78.6	79.4	83.3	88.6	89.3	91.5	96.2	147.5°	561.9
73.3	72.5	72.5	73.3	74.1	75.5	78.6	84.0	84.7	87.0	90.9	150°	582.0
68.7	68.7	68.7	69.5	70.2	71.0	74.8	80.2	81.7	84.0	88.6	152.5°	597.2
65.7	66.5	65.7	65.7	66.5	67.9	71.8	77.8	80.2	82.5	87.0	155°	614.4
63.4	63.4	63.4	64.0	64.0	65.7	70.2	76.4	77.8	80.9	87.9	157.5°	631.6
60.4	61.8	61.1	61.8	62.6	64.0	68.7	74.8	77.2	81.7	89.3	160°	645.3
58.7	58.7	58.7	59.6	61.1	61.8	65.7	72.5	75.5	81.7	94.0	162.5°	654.7
58.0	56.5	56.5	57.2	58.7	60.4	64.0	71.0	74.8	80.9	93.2	165°	663.5
57.2	55.0	54.2	55.0	56.5	57.2	61.8	68.7	74.1	78.6	90.1	167.5°	672.3
55.0	53.4	52.7	53.4	55.0	56.5	60.4	67.2	71.0	77.2	86.2	170°	679.2
54.2	51.9	51.9	52.7	54.2	55.0	58.7	65.7	69.5	77.8	88.6	172.5°	681.2
51.1	50.3	50.3	51.1	51.1	52.7	57.2	64.0	67.2	79.4	74.1	175°	683.1
48.9	48.9	48.9	48.9	49.7	50.3	55.8	62.6	64.0	68.7	63.4	177.5°	686.6
47.3	47.3	47.3	47.3	47.3	48.9	53.4	60.4	61.1	60.4	58.0	180°	687.0
44.3	44.3	44.3	44.3	45.1	45.8	50.3	56.5	56.5	55.0	55.0		
42.0	41.2	41.2	41.2	41.2	42.0	46.6	52.7	51.9	51.1	51.1		
37.4	37.4	37.4	37.4	37.4	37.4	42.0	48.1	47.3	46.6	45.8		
32.8	32.8	33.6	32.8	32.1	31.4	35.9	42.8	42.8	42.0	41.2		
28.3	27.5	28.3	27.5	25.9	25.9	29.7	35.9	36.7	35.9	34.3		
22.9	22.2	22.2	22.2	19.0	19.0	22.9	29.0	29.0	28.3	26.7		
17.6	16.8	16.0	15.3	12.9	12.9	16.0	21.4	22.2	19.0	18.3		
9.2	9.2	9.2	6.8	6.1	5.3	8.4	12.9	12.9	10.7	9.2		
7.4	6.8	5.9	4.9	4.9	4.9	5.9	7.6	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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 IST-AF-1000-LED-E1-SLR-7027-ULG

REPORT NUMBER: P271736  
 CATALOG NUMBER: IST-AF-10

**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°	1498.7	1498.7
104.0	100.6	97.2	97.2	97.2	100.6	104.0	111.4	118.8	125.1	2.5°	1402.5	1409.4
144.3	140.3	136.5	137.4	136.5	140.3	144.3	150.2	156.0	160.4	5°	1133.0	1159.7
185.5	183.1	180.6	180.6	180.6	183.1	185.5	189.5	193.3	195.8	7.5°	856.6	892.6
221.8	220.4	218.8	220.8	218.8	220.4	221.8	225.3	228.7	230.7	10°	686.3	710.8
256.2	255.7	255.2	258.2	255.2	255.7	256.2	259.1	262.0	264.0	12.5°	602.4	637.5
290.5	289.5	288.5	292.5	288.5	289.5	290.5	291.9	293.5	296.4	15°	516.9	555.1
322.9	322.9	322.9	323.9	322.9	322.9	322.9	324.8	326.8	329.8	17.5°	423.7	470.4
355.3	354.8	354.3	356.3	354.3	354.8	355.3	357.3	359.2	361.2	20°	323.7	369.6
385.7	386.2	386.7	388.7	386.7	386.2	385.7	389.7	393.5	395.1	22.5°	227.5	266.4
418.1	418.1	418.1	421.0	418.1	418.1	418.1	421.0	424.0	425.4	25°	165.6	183.3
450.5	449.5	448.5	451.5	448.5	449.5	450.5	450.9	451.5	453.5	27.5°	147.3	154.1
478.0	477.0	476.0	479.0	476.0	477.0	478.0	479.0	480.0	481.0	30°	138.2	142.8
507.5	506.5	505.5	508.4	505.5	506.5	507.5	507.9	508.4	509.9	32.5°	124.4	129.1
534.0	534.9	535.9	539.8	535.9	534.9	534.0	535.4	536.8	538.4	35°	109.1	115.3
560.5	560.9	561.4	564.3	561.4	560.9	560.5	561.9	563.3	563.3	37.5°	101.6	106.1
582.0	581.6	581.0	584.0	581.0	581.6	582.0	582.0	582.0	582.0	40°	96.9	97.7
596.7	596.7	596.7	599.7	596.7	596.7	596.7	597.2	597.7	598.2	42.5°	93.2	93.2
613.5	613.5	613.5	617.3	613.5	613.5	613.5	614.4	615.4	616.9	45°	90.9	93.2
631.1	631.1	631.1	634.0	631.1	631.1	631.1	631.6	632.0	633.0	47.5°	92.3	102.2
646.8	647.3	647.8	650.7	647.8	647.3	646.8	645.3	643.8	643.4	50°	103.8	100.8
656.6	656.6	656.6	660.5	656.6	656.6	656.6	654.7	652.7	650.7	52.5°	106.1	94.7
663.5	664.5	665.5	668.4	665.5	664.5	663.5	663.5	663.5	662.1	55°	96.9	90.9
671.3	672.8	674.3	677.2	674.3	672.8	671.3	672.3	673.3	674.3	57.5°	87.0	79.4
679.2	680.6	682.2	685.0	682.2	680.6	679.2	679.2	679.2	679.7	59°	77.8	73.3
682.2	683.1	684.1	686.0	684.1	683.1	682.2	681.2	680.2	678.7	60°	72.5	71.0
684.1	684.6	685.0	687.0	685.0	684.6	684.1	683.1	682.2	680.2	62.5°	66.5	67.9
687.0	689.4	692.0	693.9	692.0	689.4	687.0	686.6	686.0	685.0	65°	61.8	64.9
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	67.5°	59.6	61.8
										70°	55.8	57.2
										72.5°	51.9	52.7
										75°	46.6	47.3
										77.5°	41.2	41.2
										80°	33.6	33.6
										82.5°	25.9	25.2
										85°	16.8	16.0
										87.5°	7.6	6.1
										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°
1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	110°	100.1	106.0	111.9
1443.8	1465.1	1481.9	1478.9	1514.8	1536.1	1539.2	1561.3	1582.7	112.5°	131.5	135.9	140.3
1181.1	1210.9	1239.9	1261.3	1317.8	1364.3	1400.3	1438.5	1483.6	115°	164.9	167.8	170.8
941.4	966.6	1014.0	1048.3	1107.8	1162.0	1214.7	1275.1	1326.2	117.5°	198.3	199.7	201.2
737.6	769.6	813.9	878.0	931.5	993.3	1059.7	1117.0	1202.5	120°	232.6	235.5	238.5
662.7	682.5	719.3	749.7	816.2	881.9	956.7	1035.3	1114.0	122.5°	266.0	269.0	271.8
585.7	620.7	655.0	699.4	757.5	829.1	910.2	994.9	1083.4	125°	299.3	301.8	304.3
510.8	557.4	594.8	642.8	707.8	798.6	904.0	1009.3	1113.2	127.5°	332.7	333.2	333.7
419.1	462.6	528.3	577.3	661.9	775.8	910.8	1056.7	1197.2	130°	363.2	364.2	365.1
329.9	376.4	451.2	523.7	616.9	763.5	938.3	1134.6	1322.3	132.5°	396.5	397.1	397.5
236.0	299.2	373.3	465.0	578.0	755.8	975.8	1230.8	1483.6	135°	427.0	428.0	428.9
176.3	220.6	310.7	410.7	534.4	742.1	1015.4	1320.1	1593.4	137.5°	455.4	457.3	459.3
157.2	188.6	247.3	352.8	481.0	715.4	1045.3	1404.8	1693.5	140°	481.9	484.8	487.8
137.4	161.9	208.5	297.8	432.9	674.2	1058.2	1449.9	1762.9	142.5°	511.3	513.3	515.3
120.6	143.5	190.9	276.4	408.5	627.6	1055.9	1494.9	1850.0	145°	539.8	540.3	540.8
110.0	129.7	183.3	271.1	389.3	584.9	1058.2	1567.5	1979.0	147.5°	563.3	563.9	564.3
101.6	124.4	177.1	259.6	380.3	561.2	1067.4	1631.6	2089.6	150°	582.0	582.0	582.0
101.6	122.9	161.9	243.6	375.6	563.5	1071.2	1681.2	2172.1	152.5°	598.7	598.7	598.7
106.9	115.3	150.4	234.4	378.6	580.2	1066.6	1731.7	2252.3	155°	618.3	617.3	616.3
101.6	107.7	142.8	232.9	378.6	592.5	1080.3	1794.3	2357.7	157.5°	634.0	633.6	633.0
96.2	100.0	140.5	230.5	371.1	603.9	1136.9	1911.1	2495.1	160°	642.8	642.8	642.8
89.3	94.0	137.4	226.7	362.6	618.4	1236.9	2107.2	2722.7	162.5°	648.8	649.7	650.7
80.9	90.1	132.9	220.6	357.3	644.4	1339.1	2305.8	2993.7	165°	660.5	660.5	660.5
77.8	86.2	122.2	206.1	352.0	672.7	1448.3	2495.9	3237.2	167.5°	675.3	673.8	672.3
75.5	83.3	113.0	195.4	347.4	686.3	1481.1	2568.4	3331.2	170°	680.2	679.2	678.2
74.1	81.7	107.7	186.3	342.1	687.1	1504.9	2595.9	3344.9	172.5°	677.2	677.2	677.2
71.8	78.6	96.9	167.3	325.3	686.3	1507.2	2613.5	3305.2	175°	678.2	677.7	677.2
67.9	75.5	97.7	157.2	294.7	654.3	1412.5	2528.7	3147.1	177.5°	684.1	683.1	682.2
64.9	73.3	103.0	159.6	262.7	572.0	1235.3	2265.3	2808.9	180°	687.0	687.0	687.0
60.4	71.8	107.7	164.9	253.5	474.9	934.6	1850.0	2352.3				
55.8	71.0	111.5	168.7	243.6	390.9	647.5	1311.6	1760.6				
50.3	64.9	101.6	143.5	201.6	284.0	416.8	858.2	1214.0				
43.5	51.9	74.1	100.8	148.1	198.5	246.7	518.4	794.0				
35.9	39.0	52.7	64.9	98.5	117.6	136.6	292.4	555.1				
26.7	27.5	35.9	41.2	55.8	64.9	81.7	179.4	449.7				
15.3	17.6	24.4	27.5	33.6	41.2	53.4	114.5	352.8				
6.1	7.6	14.6	16.0	18.3	22.9	29.7	66.5	110.0				
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°	1498.7	1498.7	1498.7	1498.7
142.8	145.3	146.2	147.2	146.7	146.2	145.3	144.3	2.5°	1604.1	1620.1	1633.8	1644.5
173.2	175.7	177.1	178.7	177.1	175.7	174.7	173.7	5°	1531.6	1569.0	1614.1	1652.3
204.2	207.1	209.0	211.0	208.6	206.1	205.2	204.2	7.5°	1402.5	1449.9	1523.2	1568.2
239.9	241.5	243.4	245.3	242.9	240.5	239.5	238.5	10°	1280.4	1349.8	1430.0	1494.9
272.8	273.8	275.8	277.8	275.3	272.8	271.8	270.9	12.5°	1197.2	1283.5	1359.8	1432.3
305.7	307.2	308.2	309.2	306.7	304.3	304.3	304.3	15°	1174.3	1262.1	1330.7	1397.2
336.1	338.6	339.1	339.6	339.6	339.6	339.1	338.6	17.5°	1220.1	1307.9	1366.6	1407.1
367.6	370.0	372.0	374.0	374.0	374.0	373.0	372.0	20°	1327.8	1421.7	1459.0	1456.1
400.5	403.4	405.9	408.3	407.3	406.3	406.3	406.3	22.5°	1475.1	1573.7	1573.7	1543.0
431.8	434.8	437.3	439.7	439.2	438.7	440.2	441.7	25°	1669.8	1740.7	1701.9	1643.8
461.8	464.2	465.2	466.2	466.7	467.2	469.6	472.1	27.5°	1808.0	1874.4	1806.4	1711.0
489.3	490.7	491.7	492.7	493.7	494.7	497.1	499.5	30°	1922.6	1971.4	1885.0	1769.8
516.3	517.2	520.2	523.2	523.2	523.2	523.6	524.1	32.5°	2023.3	2059.2	1945.4	1831.6
543.3	545.7	548.7	551.6	551.1	550.6	549.1	547.7	35°	2144.0	2156.9	2008.0	1886.6
566.8	569.3	571.7	574.2	574.6	575.2	573.7	572.2	37.5°	2277.6	2288.3	2098.1	1947.0
584.0	586.0	587.4	588.9	590.4	591.8	593.3	594.8	40°	2434.8	2396.6	2164.6	2002.6
599.2	599.7	601.1	602.7	604.6	606.5	609.1	611.5	42.5°	2531.7	2469.1	2212.6	2031.7
615.4	614.4	616.9	619.3	621.8	624.2	625.2	626.2	45°	2608.0	2522.6	2234.7	2048.5
632.6	632.0	634.0	636.0	637.0	638.0	638.0	638.0	47.5°	2702.0	2601.2	2273.7	2078.9
644.4	645.8	648.8	651.7	650.2	648.8	648.3	647.8	50°	2825.7	2710.5	2372.2	2165.3
652.7	654.7	656.6	658.5	658.1	657.6	656.6	655.7	52.5°	3079.2	2936.4	2549.3	2315.7
660.1	659.5	662.1	664.5	665.9	667.4	666.5	665.5	55°	3370.9	3235.8	2832.5	2563.9
668.9	665.5	668.4	671.3	673.3	675.3	675.3	675.3	57.5°	3604.4	3513.6	3085.3	2788.2
675.7	673.3	674.8	676.2	678.7	681.2	682.2	683.1	59°	3690.8	3651.8	3263.9	2978.4
676.7	676.2	677.7	679.2	680.2	681.2	682.2	683.1	60°	3722.8	3756.4	3358.7	3094.4
677.2	677.2	679.7	682.2	682.6	683.1	682.2	681.2	62.5°	3744.9	3890.8	3666.3	3441.0
681.6	681.2	683.6	686.0	687.0	688.0	686.6	685.0	65°	3699.1	3912.9	3790.8	3652.6
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	67.5°	3499.9	3755.6	3732.0	3610.6
								70°	3092.1	3377.0	3459.5	3286.9
								72.5°	2326.4	2679.8	3129.5	2859.3
								75°	1515.5	1842.3	2672.3	2449.3
								77.5°	949.0	1149.8	1906.5	1715.7
								80°	631.4	739.0	1210.2	1101.7
								82.5°	474.9	523.7	832.2	782.6
								85°	250.4	319.2	647.5	820.7
								87.5°	94.0	104.7	487.2	733.7
								90°	6.8	6.8	8.6	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°
1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	110°	114.8	113.8	115.3	116.8	117.8
1653.7	1667.4	1675.9	1669.8	1679.7	1682.0	1671.3	112.5°	144.3	144.3	145.3	146.2	146.7
1684.3	1722.5	1750.0	1769.0	1776.7	1783.6	1780.5	115°	174.7	173.7	174.7	175.7	177.1
1627.8	1686.6	1737.7	1772.9	1785.0	1794.3	1785.8	117.5°	205.2	204.2	205.2	206.1	208.6
1565.2	1626.2	1674.4	1709.5	1708.8	1717.9	1701.9	120°	238.5	238.5	239.5	240.5	242.9
1506.4	1565.9	1608.7	1607.2	1596.5	1569.8	1565.2	122.5°	271.8	270.9	271.8	272.8	275.3
1459.8	1491.1	1501.8	1499.5	1469.0	1453.6	1451.4	125°	304.3	304.3	304.3	304.3	306.7
1436.9	1435.4	1411.0	1384.2	1355.3	1353.7	1333.8	127.5°	340.5	338.6	339.1	339.6	339.6
1440.7	1391.0	1346.0	1300.3	1268.9	1262.1	1264.4	130°	373.0	372.0	373.0	374.0	374.0
1488.9	1401.1	1316.3	1269.8	1233.0	1222.3	1226.9	132.5°	407.3	406.3	406.3	406.3	407.3
1549.1	1431.6	1326.2	1255.2	1225.4	1212.4	1214.7	135°	442.7	441.7	440.2	438.7	439.2
1589.6	1466.8	1359.0	1271.2	1230.8	1218.6	1226.2	137.5°	473.0	472.1	469.6	467.2	466.7
1641.6	1514.8	1403.3	1312.4	1252.1	1236.1	1241.5	140°	501.5	499.5	497.1	494.7	493.7
1692.7	1566.7	1465.9	1362.9	1289.6	1259.7	1268.1	142.5°	526.0	524.1	523.6	523.2	523.2
1747.7	1627.0	1525.5	1431.6	1345.3	1298.7	1309.4	145°	549.7	547.7	549.1	550.6	551.1
1811.8	1697.3	1610.2	1524.0	1435.4	1396.4	1401.1	147.5°	574.2	572.2	573.7	575.2	574.6
1873.7	1766.0	1710.2	1646.1	1594.2	1534.7	1534.7	150°	598.7	594.8	593.3	591.8	590.4
1910.2	1855.3	1840.1	1821.8	1791.2	1748.4	1739.3	152.5°	616.3	611.5	609.1	606.5	604.6
1955.3	1961.4	1996.6	2033.2	2042.4	2000.3	1987.4	155°	629.2	626.2	625.2	624.2	621.8
2040.1	2104.2	2219.5	2319.5	2339.4	2373.7	2334.1	157.5°	642.8	638.0	638.0	638.0	637.0
2159.2	2277.6	2472.2	2635.5	2682.2	2685.2	2688.3	160°	653.7	647.8	648.3	648.8	650.2
2295.1	2464.6	2721.9	2916.5	2999.8	3021.9	3005.9	162.5°	661.5	655.7	656.6	657.6	658.1
2527.9	2681.4	2963.1	3173.2	3280.0	3331.9	3318.2	165°	669.3	665.5	666.5	667.4	665.9
2758.5	2949.3	3197.6	3404.5	3518.2	3576.2	3588.5	167.5°	681.2	675.3	675.3	675.3	673.3
2915.8	3094.4	3323.5	3514.3	3626.5	3696.1	3702.3	170°	688.0	683.1	682.2	681.2	678.7
3011.9	3175.4	3399.1	3567.1	3679.3	3738.0	3759.5	172.5°	688.0	683.1	682.2	681.2	680.2
3303.7	3333.4	3486.1	3596.8	3675.4	3702.3	3718.3	175°	686.0	681.2	682.2	683.1	682.6
3440.3	3315.8	3298.3	3367.0	3373.9	3356.3	3334.1	177.5°	689.0	685.0	686.6	688.0	687.0
3250.2	2959.4	2851.7	2842.5	2814.3	2802.8	2732.6	180°	687.0	687.0	687.0	687.0	687.0
2822.7	2403.4	2213.3	2110.3	2172.9	2170.7	2098.9						
2378.4	1951.5	1704.9	1556.8	1538.4	1535.5	1472.8						
1931.6	1531.6	1315.5	1243.7	1157.5	1131.5	1142.1						
1392.6	1093.3	1047.5	1102.5	1109.4	1089.6	1075.8						
877.3	822.3	866.5	966.6	1025.3	999.5	1009.3						
731.4	647.5	650.6	755.8	795.6	801.6	781.1						
811.6	648.1	531.3	518.4	504.7	317.6	442.1						
731.4	501.6	295.5	243.6	149.7	86.2	89.3						
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°	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7
147.2	146.2	145.3	142.8	140.3	135.9	2.5°	1669.1	1654.5	1638.5	1617.1	1620.9	1594.9
178.7	177.1	175.7	173.2	170.8	167.8	5°	1756.8	1731.7	1697.3	1653.7	1613.3	1561.3
211.0	209.0	207.1	204.2	201.2	199.7	7.5°	1747.7	1707.2	1650.0	1584.3	1530.8	1456.1
245.3	243.4	241.5	239.9	238.5	235.5	10°	1669.1	1616.3	1569.8	1501.8	1432.3	1366.6
277.8	275.8	273.8	272.8	271.8	269.0	12.5°	1559.1	1529.3	1488.9	1437.6	1370.5	1303.4
309.2	308.2	307.2	305.7	304.3	301.8	15°	1439.3	1441.5	1417.1	1403.3	1369.7	1316.3
339.6	339.1	338.6	336.1	333.7	333.2	17.5°	1340.7	1363.5	1376.7	1397.9	1401.7	1375.8
374.0	372.0	370.0	367.6	365.1	364.2	20°	1275.1	1307.1	1347.5	1406.4	1468.2	1494.9
408.3	405.9	403.4	400.5	397.5	397.1	22.5°	1238.4	1278.1	1343.0	1449.9	1562.9	1630.9
439.7	437.3	434.8	431.8	428.9	428.0	25°	1231.6	1284.1	1375.0	1505.6	1652.3	1747.7
466.2	465.2	464.2	461.8	459.3	457.3	27.5°	1243.0	1311.6	1419.3	1568.2	1712.5	1850.7
492.7	491.7	490.7	489.3	487.8	484.8	30°	1279.6	1359.8	1477.4	1637.7	1787.4	1924.8
523.2	520.2	517.2	516.3	515.3	513.3	32.5°	1314.8	1414.0	1543.7	1700.3	1850.7	1987.4
551.6	548.7	545.7	543.3	540.8	540.3	35°	1371.3	1471.2	1604.1	1748.4	1894.3	2049.2
574.2	571.7	569.3	566.8	564.3	563.9	37.5°	1457.5	1545.4	1651.4	1785.8	1937.7	2098.1
588.9	587.4	586.0	584.0	582.0	582.0	40°	1580.5	1638.5	1707.2	1813.3	1959.1	2130.9
602.7	601.1	599.7	599.2	598.7	598.7	42.5°	1764.5	1776.7	1800.3	1855.3	1978.2	2169.0
619.3	616.9	614.4	615.4	616.3	617.3	45°	2002.0	1965.2	1944.7	1936.9	2021.0	2193.5
636.0	634.0	632.0	632.6	633.0	633.6	47.5°	2277.6	2205.8	2123.3	2083.6	2103.4	2232.5
651.7	648.8	645.8	644.4	642.8	642.8	50°	2636.3	2519.6	2357.7	2243.2	2233.3	2347.0
658.5	656.6	654.7	652.7	650.7	649.7	52.5°	2965.5	2812.8	2608.9	2473.8	2418.8	2560.8
664.5	662.1	659.5	660.1	660.5	660.5	55°	3276.2	3158.6	2928.0	2760.0	2741.0	2844.0
671.3	668.4	665.5	668.9	672.3	673.8	57.5°	3548.8	3447.2	3258.6	3039.4	3047.1	3147.1
676.2	674.8	673.3	675.7	678.2	679.2	59°	3690.0	3605.3	3430.4	3207.5	3224.3	3361.6
679.2	677.7	676.2	676.7	677.2	677.2	60°	3740.5	3669.4	3502.9	3315.1	3336.5	3479.2
682.2	679.7	677.2	677.2	677.2	677.7	62.5°	3736.6	3690.8	3570.1	3481.5	3590.7	3695.4
686.0	683.6	681.2	681.6	682.2	683.1	65°	3380.1	3310.5	3296.8	3451.7	3662.5	3763.3
687.0	687.0	687.0	687.0	687.0	687.0	67.5°	2688.3	2721.1	2851.7	3118.2	3471.6	3618.2
						70°	1996.6	2054.5	2228.7	2563.0	3048.7	3302.1
						72.5°	1468.2	1526.2	1686.6	2053.1	2508.1	2732.6
						75°	1152.2	1169.8	1284.9	1572.8	1976.7	2160.7
						77.5°	1064.3	1011.6	964.3	1118.5	1333.1	1491.1
						80°	991.0	891.0	779.5	826.1	878.0	1046.0
						82.5°	769.6	703.2	616.1	675.6	700.0	705.5
						85°	450.5	400.8	507.7	719.3	711.5	623.1
						87.5°	158.8	206.1	232.1	398.6	481.9	416.8
						90°	7.8	10.2	14.7	15.0	18.3	9.7
						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°
1498.7	1498.7	1498.7	110°	100.1	92.7	85.4	79.1	72.7	69.7	66.7
1574.3	1553.0	1551.5	112.5°	131.5	125.1	118.8	111.4	104.0	100.6	97.2
1520.1	1472.1	1456.7	115°	164.9	160.4	156.0	150.2	144.3	140.3	136.5
1391.0	1335.4	1323.9	117.5°	198.3	195.8	193.3	189.5	185.5	183.1	180.6
1282.7	1220.9	1210.2	120°	232.6	230.7	228.7	225.3	221.8	220.4	218.8
1226.9	1168.2	1155.2	122.5°	266.0	264.0	262.0	259.1	256.2	255.7	255.2
1248.4	1183.4	1176.6	125°	299.3	296.4	293.5	291.9	290.5	289.5	288.5
1328.5	1259.7	1262.8	127.5°	332.7	329.8	326.8	324.8	322.9	322.9	322.9
1465.9	1421.7	1411.0	130°	363.2	361.2	359.2	357.3	355.3	354.8	354.3
1646.1	1598.1	1584.3	132.5°	396.5	395.1	393.5	389.7	385.7	386.2	386.7
1799.6	1775.1	1766.0	135°	427.0	425.4	424.0	421.0	418.1	418.1	418.1
1910.2	1921.7	1912.6	137.5°	455.4	453.5	451.5	450.9	450.5	449.5	448.5
1998.9	2037.1	2032.4	140°	481.9	481.0	480.0	479.0	478.0	477.0	476.0
2089.6	2163.7	2166.8	142.5°	511.3	509.9	508.4	507.9	507.5	506.5	505.5
2156.9	2287.4	2314.1	145°	539.8	538.4	536.8	535.4	534.0	534.9	535.9
2243.2	2418.0	2445.5	147.5°	563.3	563.3	563.3	561.9	560.5	560.9	561.4
2308.8	2514.2	2547.9	150°	582.0	582.0	582.0	582.0	582.0	581.6	581.0
2373.0	2593.6	2630.2	152.5°	598.7	598.2	597.7	597.2	596.7	596.7	596.7
2425.6	2672.3	2709.6	155°	618.3	616.9	615.4	614.4	613.5	613.5	613.5
2485.3	2748.6	2785.3	157.5°	634.0	633.0	632.0	631.6	631.1	631.1	631.1
2592.1	2868.5	2911.9	160°	642.8	643.4	643.8	645.3	646.8	647.3	647.8
2821.8	3090.7	3152.5	162.5°	648.8	650.7	652.7	654.7	656.6	656.6	656.6
3153.9	3397.6	3446.4	165°	660.5	662.1	663.5	663.5	663.5	664.5	665.5
3453.4	3606.0	3619.0	167.5°	675.3	674.3	673.3	672.3	671.3	672.8	674.3
3576.2	3663.3	3659.4	170°	680.2	679.7	679.2	679.2	679.2	680.6	682.2
3666.3	3677.0	3655.7	172.5°	677.2	678.7	680.2	681.2	682.2	683.1	684.1
3715.2	3613.6	3577.1	175°	678.2	680.2	682.2	683.1	684.1	684.6	685.0
3587.7	3446.4	3398.4	177.5°	684.1	685.0	686.0	686.6	687.0	689.4	692.0
3219.6	3144.9	3089.9	180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0
2738.7	2549.3	2513.5								
2075.9	1826.3	1772.9								
1450.7	1151.4	1078.9								
953.6	739.0	711.5								
618.4	490.9	482.5								
431.4	322.2	297.0								
264.9	107.7	103.0								
82.5	49.7	44.3								
7.2	7.9	7.9								
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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