

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: P271695

Luminaire Tested: **IST-AF-350-LED-E1-SLL-7027-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271695  
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-350-LED-E1-SLL-7027-ULG  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR LEFT, 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: 3575.9 lumens  
Efficiency: N/A  
Efficacy: 97.2 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: B0 - U5 - G1

Input Watts (W): 36.79  
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

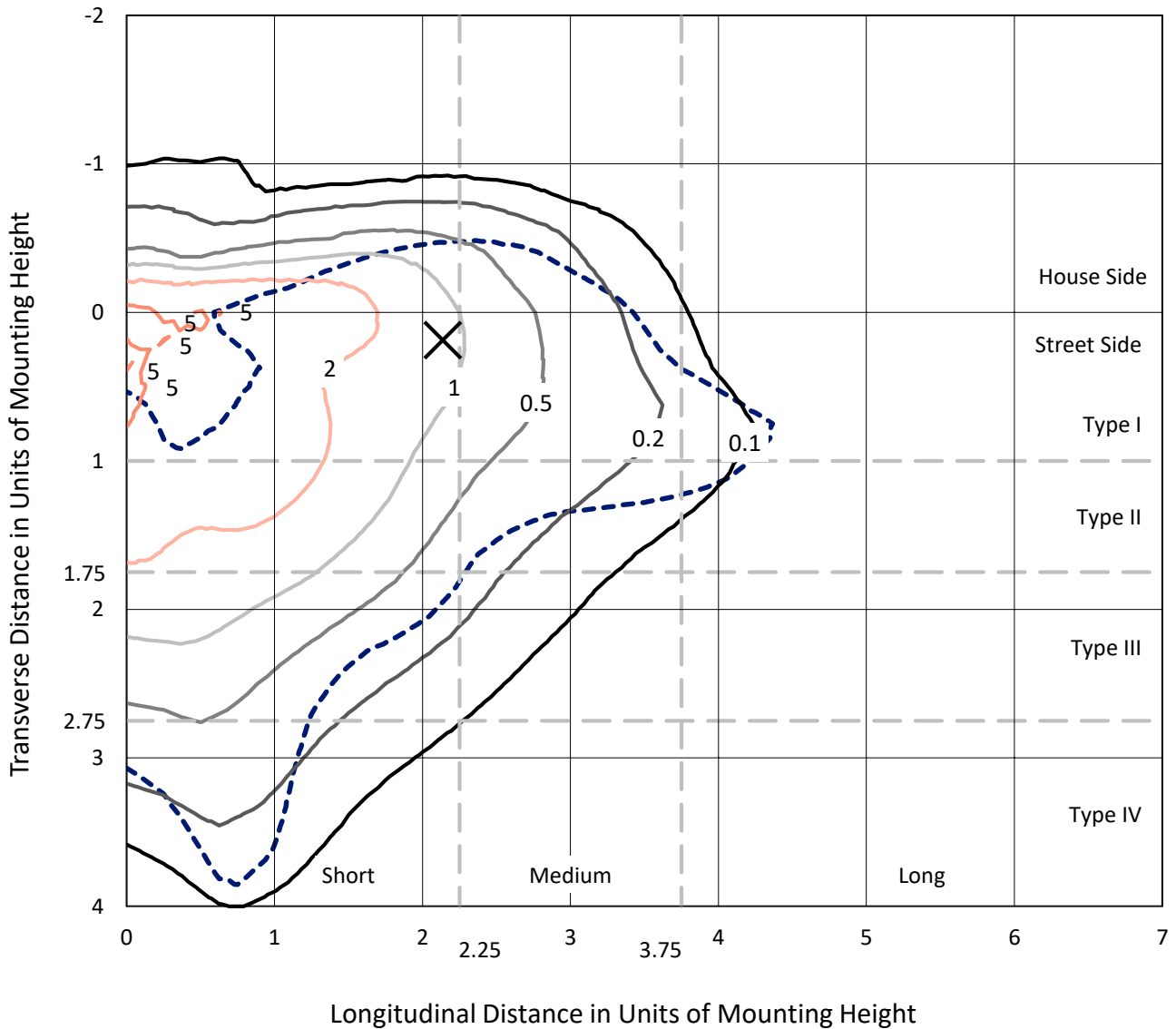


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### Iso-Footcandle Lines of Horizontal Illumination

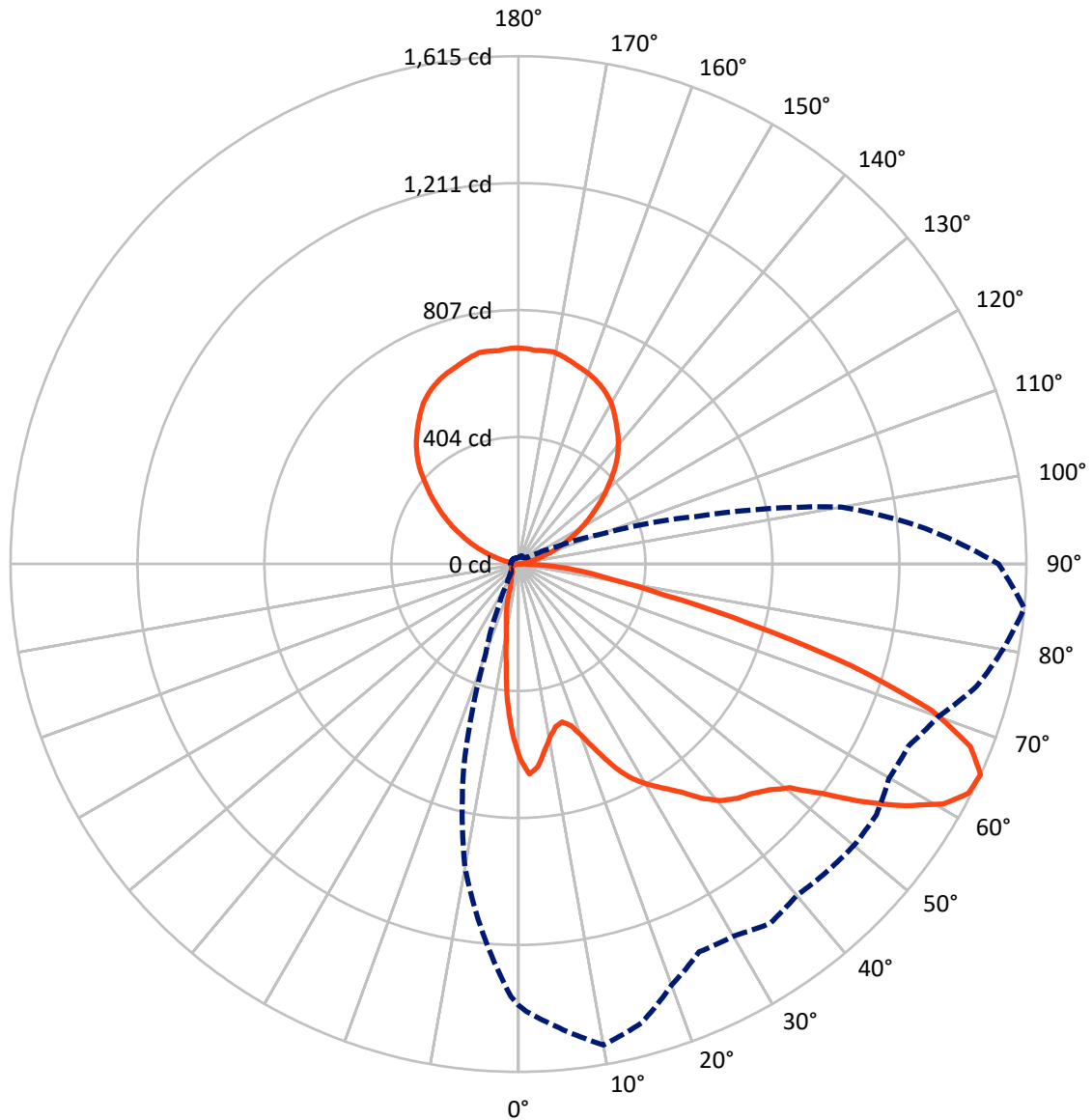
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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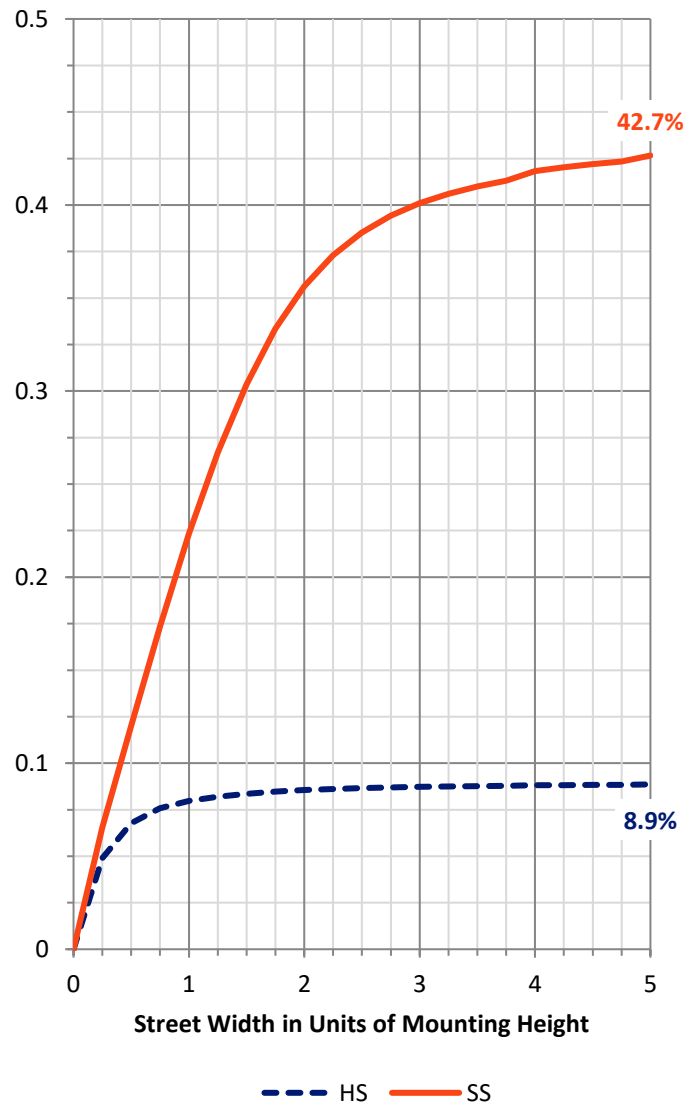
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	321.6	851.5	1173.1
	% Fixture	9.0	23.8	32.8
<b>Street Side</b>	Lumens	1551.2	851.6	2402.8
	% Fixture	43.4	23.8	67.2
<b>Total</b>	Lumens	1872.8	1703.1	3575.9
	% Fixture	52.4	47.6	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.8	1.3
10°-20°	88.2	2.5
20°-30°	125.7	3.5
30°-40°	182.4	5.1
40°-50°	260.9	7.3
50°-60°	400.5	11.2
60°-70°	463.6	13.0
70°-80°	236.5	6.6
80°-90°	69.3	1.9
90°-100°	9.2	0.3
100°-110°	56.3	1.6
110°-120°	163.0	4.6
120°-130°	268.1	7.5
130°-140°	330.6	9.2
140°-150°	338.2	9.5
150°-160°	284.9	8.0
160°-170°	187.6	5.2
170°-180°	65.0	1.8
0°-90°	1872.8	52.4
0°-180°	3575.9	100.0



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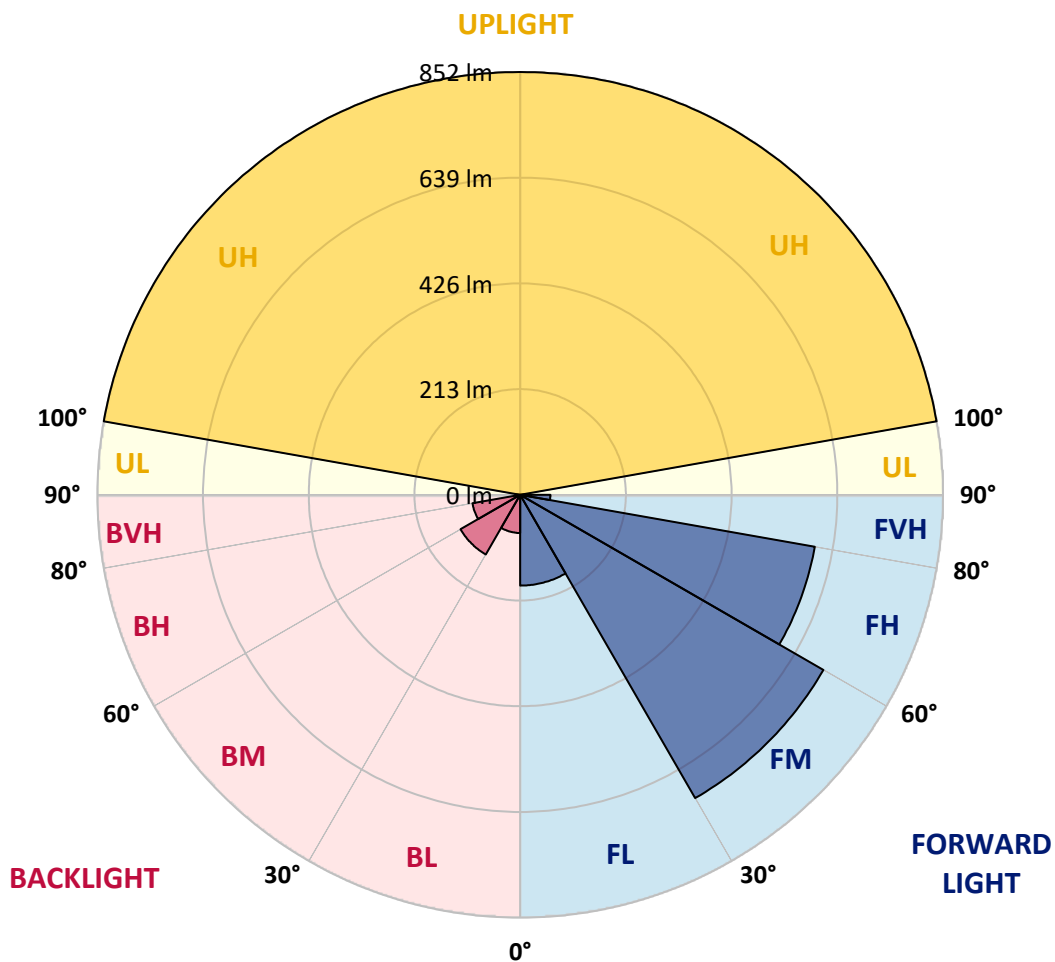
CATALOG NUMBER: IST-AF-350-LED-E1-SLL-7027-ULG

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	182.8	5.1			
FM	(30°-60°)	705.1	19.7			
FH	(60°-80°)	602.5	16.8			G0/660
FVH	(80°-90°)	60.8	1.7			G1/100
BL	(0°-30°)	76.9	2.1	B0/110		
BM	(30°-60°)	138.6	3.9	B0/220		
BH	(60°-80°)	97.7	2.7	B0/110		G0/110
BVH	(80°-90°)	8.4	0.2			G0/10
UL	(90°-100°)	9.2	0.3		U1/10	
UH	(100°-180°)	851.5	23.8		U4/1000	

**BUG Rating: B0-U5-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4
2.5°	640.1	640.9	649.6	658.1	668.8	667.2	676.1	682.6	688.6	689.6	694.0
5°	601.1	607.3	627.3	644.3	665.6	682.4	700.3	714.5	724.9	734.6	735.9
7.5°	546.3	551.0	573.9	600.8	631.6	653.7	680.7	704.5	721.1	736.9	740.3
10°	499.3	503.7	529.2	563.9	590.9	619.7	647.7	666.9	688.6	702.1	708.9
12.5°	476.6	482.0	506.3	537.7	565.4	593.2	614.4	631.0	643.3	645.8	647.7
15°	485.4	488.3	515.1	543.1	565.1	579.0	584.7	594.8	593.8	598.9	599.8
17.5°	521.1	519.8	548.1	567.7	578.4	576.8	568.0	562.7	553.2	550.3	558.6
20°	582.2	586.5	604.9	616.9	605.7	580.2	556.1	539.3	526.0	521.6	520.7
22.5°	653.7	659.4	679.2	672.9	644.8	598.2	554.2	527.3	511.0	506.3	504.4
25°	728.6	732.5	742.4	721.1	681.7	621.3	567.4	529.9	508.1	501.3	500.3
27.5°	789.1	792.9	788.3	763.6	706.6	647.0	585.7	541.2	512.8	505.9	502.8
30°	838.6	840.5	824.7	794.2	737.5	675.7	609.6	561.0	527.9	512.2	510.1
32.5°	894.0	892.7	862.2	820.1	763.6	701.6	637.0	583.4	542.5	523.3	519.8
35°	954.9	943.8	890.0	845.6	781.5	721.4	661.9	607.1	565.8	540.3	535.9
37.5°	1009.1	997.7	925.5	865.7	799.5	736.9	681.5	637.5	601.3	578.1	576.3
40°	1051.3	1037.5	952.7	879.2	808.4	748.2	704.5	676.1	652.1	633.2	633.2
42.5°	1085.2	1070.2	979.2	895.0	816.2	765.5	742.8	733.1	728.1	717.7	721.4
45°	1118.0	1102.6	1000.8	905.0	833.9	799.2	802.4	810.9	826.0	820.1	825.4
47.5°	1149.2	1134.1	1025.4	921.1	867.9	859.7	876.0	910.2	939.8	963.1	979.4
50°	1201.6	1183.6	1069.5	968.5	921.4	925.5	972.9	1039.6	1087.8	1109.1	1108.0
52.5°	1300.7	1275.2	1164.3	1056.6	997.9	1020.7	1076.5	1160.6	1223.6	1240.3	1246.8
55°	1422.1	1401.9	1301.4	1173.5	1131.0	1138.8	1208.1	1303.4	1351.8	1369.1	1374.8
57.5°	1493.3	1487.9	1424.9	1298.5	1257.3	1254.1	1344.5	1422.4	1464.2	1480.7	1475.6
59°	1509.9	1511.5	1475.6	1387.1	1330.4	1323.5	1415.4	1487.5	1522.5	1527.6	1525.1
60°	1508.3	1517.1	1512.7	1435.6	1376.7	1367.8	1445.4	1514.0	1543.3	1551.2	1542.4
62.5°	1475.8	1491.1	1532.9	1524.7	1481.6	1436.5	1473.1	1522.9	1541.7	1534.1	1527.6
65°	1402.2	1422.1	1480.2	1552.8	1511.2	1424.3	1360.3	1366.0	1394.6	1375.8	1384.8
67.5°	1275.0	1297.6	1328.4	1492.9	1432.4	1286.6	1176.6	1122.7	1109.1	1127.6	1156.5
70°	1037.0	1051.8	1130.0	1362.5	1257.9	1057.6	919.5	847.7	823.7	866.0	895.6
72.5°	731.5	753.6	856.5	1127.6	1034.8	847.1	695.8	629.7	605.7	607.7	633.6
75°	445.1	475.0	598.5	891.5	815.6	648.9	530.2	482.6	475.3	471.3	466.8
77.5°	293.6	305.0	393.5	615.2	550.0	461.5	397.9	417.4	439.1	443.9	449.5
80°	199.2	202.6	255.2	431.5	362.3	340.9	321.6	367.7	408.9	416.5	412.4
82.5°	122.6	132.9	178.0	291.1	288.9	278.8	254.2	290.2	317.6	322.3	330.8
85°	42.5	44.5	109.3	257.1	293.6	296.8	209.5	165.4	185.9	182.4	131.1
87.5°	18.2	20.5	34.0	172.0	198.7	164.4	95.8	85.1	65.6	36.9	35.7
90°	6.2	6.2	5.9	7.5	11.6	10.5	10.7	8.8	7.8	7.4	6.8
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°	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4
2.5°	693.0	689.0	691.4	688.0	682.4	678.6	674.2	668.5	661.9	653.1	644.3
5°	733.1	730.0	722.1	710.6	695.0	681.7	665.9	647.4	632.0	612.0	593.5
7.5°	736.5	731.5	716.9	695.8	671.7	647.0	628.5	598.2	578.7	547.2	526.0
10°	705.0	705.3	690.9	671.0	645.8	616.9	590.1	556.9	528.3	496.1	460.9
12.5°	658.7	663.1	663.8	646.2	621.5	590.9	561.0	529.6	494.0	459.7	427.1
15°	606.1	618.8	619.7	615.2	602.3	576.5	549.1	520.7	484.5	447.1	410.4
17.5°	559.1	571.1	582.2	592.3	592.9	580.6	563.9	539.6	503.4	459.3	416.5
20°	523.6	536.5	555.4	573.9	594.5	600.8	602.0	586.5	547.9	494.0	435.9
22.5°	508.8	523.9	543.1	578.1	614.4	636.7	649.3	649.3	608.6	545.6	468.2
25°	505.7	518.0	547.2	590.6	639.1	678.3	702.1	718.3	689.0	612.0	507.8
27.5°	507.8	524.5	560.7	605.2	655.9	706.0	745.3	773.4	746.0	657.5	544.7
30°	516.6	541.5	579.0	625.0	677.3	730.2	777.8	813.3	793.2	698.7	579.7
32.5°	532.1	562.2	604.9	646.4	698.4	755.7	802.6	849.7	834.9	727.4	598.2
35°	555.2	590.6	629.4	671.3	721.1	778.4	828.6	890.0	884.7	763.3	616.9
37.5°	592.3	628.8	664.4	700.3	747.6	803.4	865.7	944.1	939.8	816.6	646.8
40°	657.8	679.2	705.7	728.6	773.1	826.4	893.2	988.9	1004.7	862.2	673.2
42.5°	739.0	751.6	759.2	765.5	788.3	838.3	912.9	1018.8	1044.5	896.3	693.7
45°	842.7	838.8	823.7	809.4	806.8	845.2	922.1	1040.9	1076.1	929.4	714.5
47.5°	965.3	957.1	915.8	868.2	841.7	857.8	938.2	1073.3	1114.9	972.9	740.3
50°	1106.7	1087.5	1020.0	939.8	890.8	893.5	978.8	1118.3	1165.9	1029.5	788.5
52.5°	1237.8	1203.4	1123.2	1016.9	946.9	955.4	1051.8	1211.6	1270.6	1123.4	869.5
55°	1353.4	1309.3	1222.6	1106.4	1043.0	1057.8	1168.8	1335.2	1390.8	1235.2	951.3
57.5°	1451.6	1404.7	1319.3	1216.9	1138.2	1150.5	1273.0	1449.8	1487.2	1335.7	1029.9
59°	1496.4	1450.0	1371.4	1276.9	1203.1	1228.9	1346.8	1506.7	1522.9	1374.5	1059.7
60°	1518.1	1471.9	1402.5	1310.2	1242.7	1276.9	1385.8	1549.9	1536.1	1380.2	1071.0
62.5°	1516.6	1484.1	1438.5	1375.5	1363.1	1419.8	1512.7	1605.5	1545.3	1363.8	1078.3
65°	1392.1	1389.3	1360.9	1368.2	1419.5	1507.1	1564.1	1614.5	1526.3	1298.5	1043.4
67.5°	1161.1	1172.8	1176.6	1221.1	1341.1	1489.7	1539.9	1549.7	1444.0	1159.0	934.7
70°	896.6	870.7	913.3	991.7	1164.7	1356.2	1427.4	1393.5	1275.9	970.6	763.3
72.5°	634.8	642.4	703.5	805.2	981.3	1179.7	1291.3	1105.7	959.9	726.5	541.2
75°	477.6	513.2	542.8	632.0	797.1	1010.6	1102.6	760.1	625.3	500.9	354.1
77.5°	457.8	454.9	432.3	451.1	574.6	707.9	786.6	474.5	391.6	327.6	213.9
80°	423.1	398.8	357.5	339.3	361.9	454.6	499.3	305.0	260.5	229.0	120.6
82.5°	328.3	311.9	268.4	267.2	301.8	322.9	343.4	216.1	195.9	185.6	74.0
85°	208.2	213.9	219.3	267.4	334.9	338.6	267.2	131.7	103.3	145.5	47.3
87.5°	61.7	100.5	121.9	207.0	301.8	302.8	201.0	43.2	38.8	45.4	27.4
90°	6.8	6.8	7.8	8.8	8.8	8.8	8.2	6.8	6.8	6.8	7.8
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°	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4
2.5°	635.1	633.8	625.0	610.2	611.5	604.5	595.8	581.6	578.7	570.9	569.5
5°	577.8	563.0	543.7	520.4	511.7	499.6	487.3	478.5	467.5	457.3	471.0
7.5°	501.3	479.4	457.1	432.5	418.3	398.8	388.4	368.2	353.4	350.6	339.0
10°	437.3	409.9	384.4	362.3	335.9	317.6	304.3	293.3	283.2	270.9	263.3
12.5°	394.7	363.8	336.8	309.4	296.8	281.6	273.4	263.0	248.5	238.2	228.1
15°	375.5	342.2	312.5	288.5	270.3	256.1	241.6	229.0	213.3	201.6	189.9
17.5°	373.0	329.5	291.9	265.3	245.3	230.0	210.7	194.0	174.8	162.0	152.2
20°	375.9	320.1	273.2	238.2	218.0	190.9	172.9	152.4	133.6	116.6	101.1
22.5°	387.2	315.0	254.5	216.1	186.2	155.2	136.1	110.0	93.9	77.5	71.5
25°	402.6	311.9	238.5	191.9	154.1	123.4	97.4	75.5	68.5	64.3	62.1
27.5°	419.0	306.2	220.5	169.5	128.2	91.1	72.8	63.6	60.7	58.6	57.0
30°	431.3	295.1	198.4	145.5	102.0	77.8	64.9	58.9	57.0	54.4	52.9
32.5°	436.7	278.1	178.7	122.9	86.0	66.7	56.8	53.2	51.3	49.1	48.1
35°	435.7	258.9	168.5	114.1	78.7	59.2	49.8	47.6	45.1	42.8	40.6
37.5°	436.7	241.4	160.7	111.7	75.5	53.6	45.4	43.7	42.0	39.6	37.8
40°	440.3	231.5	156.8	107.1	73.1	51.3	42.0	40.3	40.1	37.5	35.9
42.5°	442.0	232.5	155.0	100.5	66.7	50.8	42.0	38.4	38.4	36.5	34.7
45°	440.1	239.4	156.2	96.7	62.1	47.6	44.1	38.4	37.5	35.9	34.0
47.5°	445.8	244.5	156.2	96.1	58.9	44.5	42.0	42.2	38.1	36.2	33.3
50°	469.1	249.2	153.1	95.1	58.0	41.2	39.6	41.6	42.8	36.9	33.7
52.5°	510.3	255.2	149.7	93.5	56.8	38.8	36.9	39.1	43.7	38.8	33.7
55°	552.5	265.9	147.4	91.1	54.8	37.2	33.3	37.5	40.1	38.4	33.3
57.5°	597.6	277.6	145.3	85.1	50.5	35.7	32.1	32.8	35.9	37.2	32.5
59°	611.2	283.2	143.3	80.7	46.6	34.3	31.2	30.3	32.1	35.7	31.8
60°	620.9	283.5	141.1	76.9	44.5	33.7	30.5	29.4	29.9	36.5	32.1
62.5°	621.9	283.2	134.2	69.0	40.1	32.5	29.6	28.0	27.4	30.5	32.8
65°	582.8	270.0	121.6	64.9	40.3	31.2	28.0	26.8	25.5	26.1	28.4
67.5°	509.7	236.0	108.3	65.8	42.5	30.3	26.8	25.5	24.5	24.0	25.0
70°	385.6	195.9	104.7	68.0	44.5	29.6	25.0	23.6	23.0	22.6	22.6
72.5°	267.2	161.2	100.5	69.6	46.0	29.4	23.0	21.6	21.4	21.1	21.1
75°	172.0	117.2	83.1	59.2	42.0	26.8	20.8	19.5	19.2	19.0	19.2
77.5°	101.8	81.9	61.2	41.6	30.5	21.4	18.0	17.0	17.0	17.0	17.3
80°	56.4	48.5	40.6	26.8	21.6	16.1	14.8	13.8	13.8	14.1	14.8
82.5°	33.7	26.8	23.0	17.0	14.8	11.4	11.0	10.4	10.7	11.0	11.7
85°	22.1	17.0	13.8	11.4	10.2	7.3	6.3	6.6	7.0	7.5	7.8
87.5°	12.3	9.4	7.5	6.6	6.0	3.1	2.5	2.5	3.1	3.9	4.4
90°	8.8	8.8	8.8	7.8	6.8	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°
618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	110°	79.1
573.9	564.9	555.2	547.9	551.0	540.6	541.5	538.7	537.5	536.7	530.2	112.5°	111.4
454.6	458.0	443.5	445.1	449.5	438.8	431.5	443.5	442.0	431.3	437.3	115°	150.2
327.6	328.6	322.0	307.1	307.1	315.0	317.9	323.5	327.3	340.5	332.4	117.5°	189.5
250.4	241.6	235.0	228.3	224.7	216.7	218.6	225.6	230.0	237.5	243.5	120°	225.3
217.7	207.9	196.3	186.2	180.8	173.6	168.8	167.3	168.8	164.1	164.4	122.5°	259.1
180.8	172.0	159.1	153.7	143.7	138.0	134.8	130.7	127.6	121.0	118.1	125°	291.9
140.1	128.5	115.3	115.3	108.1	103.3	102.0	101.1	99.3	95.8	92.3	127.5°	324.8
93.2	85.7	78.2	74.3	75.0	74.3	72.4	75.5	75.5	76.9	76.3	130°	357.3
68.0	66.7	64.0	61.7	60.5	60.2	60.5	61.4	63.3	64.9	66.5	132.5°	389.7
61.2	60.5	58.0	55.8	55.4	54.8	54.8	55.8	56.1	56.4	56.1	135°	421.0
56.8	55.4	53.2	51.7	51.0	50.8	51.0	50.0	49.5	49.8	49.5	137.5°	450.9
51.3	50.5	48.1	46.9	46.6	46.6	45.6	45.4	44.7	45.1	44.7	140°	479.0
47.3	46.0	43.7	42.2	42.2	42.0	42.2	42.0	41.6	41.2	41.2	142.5°	507.9
39.6	39.3	37.2	36.5	36.9	37.8	37.8	37.8	38.1	37.8	37.8	145°	535.4
36.9	36.5	34.3	32.8	32.5	32.5	32.5	33.1	34.0	34.3	34.9	147.5°	561.9
34.9	34.7	32.5	31.2	30.5	30.3	29.9	29.9	30.3	31.5	32.5	150°	582.0
33.7	33.1	30.9	29.4	28.9	28.7	28.4	28.4	28.4	28.7	29.6	152.5°	597.2
33.1	32.1	29.6	28.0	27.4	27.1	27.1	27.4	27.1	27.1	27.1	155°	614.4
32.1	31.5	28.9	27.1	26.5	26.5	26.1	26.1	26.1	25.5	25.5	157.5°	631.6
31.8	30.9	28.4	26.5	25.8	25.5	25.2	25.5	25.0	24.5	24.3	160°	645.3
31.2	29.9	27.1	25.5	25.2	24.5	24.3	24.3	24.3	23.6	23.6	162.5°	654.7
30.9	29.4	26.5	25.0	24.3	23.6	23.4	23.4	24.0	23.4	23.4	165°	663.5
30.5	28.4	25.5	23.6	23.4	22.6	22.4	22.6	23.6	23.0	22.6	167.5°	672.3
29.4	27.7	25.0	23.4	22.6	22.1	21.6	22.1	22.6	22.6	22.6	170°	679.2
28.7	27.1	24.3	22.6	22.4	21.6	21.4	21.4	22.4	22.4	22.1	172.5°	681.2
27.7	26.5	23.6	21.6	21.1	21.1	20.8	20.8	21.1	21.1	21.4	175°	683.1
26.5	25.8	23.0	20.8	20.5	20.1	20.1	20.1	20.1	20.8	20.8	177.5°	686.6
25.2	25.0	22.1	20.1	19.5	19.5	19.5	19.5	19.5	19.9	20.1	180°	687.0
23.4	23.4	20.8	19.0	18.5	18.2	18.2	18.2	18.2	18.5	19.0		
21.4	21.6	19.2	17.3	17.0	17.0	17.0	17.0	17.3	17.3	17.7		
19.5	19.9	17.3	15.5	15.5	15.5	15.5	15.5	15.5	15.5	16.1		
17.7	17.7	14.8	12.9	13.3	13.6	13.8	13.6	13.6	13.8	14.8		
15.1	14.8	12.3	10.7	10.7	11.4	11.7	11.4	11.7	11.7	12.9		
11.9	11.9	9.4	7.8	7.8	9.2	9.2	9.2	9.4	9.8	10.7		
9.2	8.8	6.6	5.4	5.4	6.3	6.6	7.0	7.3	7.5	8.2		
5.4	5.4	3.4	2.2	2.5	2.9	3.9	3.9	3.9	4.4	5.4		
7.4	7.2	5.9	4.9	4.9	4.9	5.9	6.8	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		

271695  
 IST-AF-350-LED-E1-SLL-7027-ULG

REPORT NUMBER: P271695  
 CATALOG NUMBER: IST-AF-350

**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°	618.4	618.4
104.0	100.6	97.2	97.2	97.2	100.6	104.0	111.4	118.8	125.1	2.5°	535.9	535.6
144.3	140.3	136.5	137.4	136.5	140.3	144.3	150.2	156.0	160.4	5°	439.8	436.9
185.5	183.1	180.6	180.6	180.6	183.1	185.5	189.5	193.3	195.8	7.5°	340.9	351.2
221.8	220.4	218.8	220.8	218.8	220.4	221.8	225.3	228.7	230.7	10°	245.8	253.0
256.2	255.7	255.2	258.2	255.2	255.7	256.2	259.1	262.0	264.0	12.5°	171.0	174.8
290.5	289.5	288.5	292.5	288.5	289.5	290.5	291.9	293.5	296.4	15°	117.8	125.3
322.9	322.9	322.9	323.9	322.9	322.9	322.9	324.8	326.8	329.8	17.5°	91.6	92.6
355.3	354.8	354.3	356.3	354.3	354.8	355.3	357.3	359.2	361.2	20°	75.5	76.3
385.7	386.2	386.7	388.7	386.7	386.2	385.7	389.7	393.5	395.1	22.5°	67.1	68.5
418.1	418.1	418.1	421.0	418.1	418.1	418.1	421.0	424.0	425.4	25°	56.4	57.6
450.5	449.5	448.5	451.5	448.5	449.5	450.5	450.9	451.5	453.5	27.5°	49.8	51.0
478.0	477.0	476.0	479.0	476.0	477.0	478.0	479.0	480.0	481.0	30°	45.6	46.4
507.5	506.5	505.5	508.4	505.5	506.5	507.5	507.9	508.4	509.9	32.5°	41.6	41.6
534.0	534.9	535.9	539.8	535.9	534.9	534.0	535.4	536.8	538.4	35°	38.1	38.4
560.5	560.9	561.4	564.3	561.4	560.9	560.5	561.9	563.3	563.3	37.5°	35.7	36.2
582.0	581.6	581.0	584.0	581.0	581.6	582.0	582.0	582.0	582.0	40°	33.3	33.7
596.7	596.7	596.7	599.7	596.7	596.7	596.7	597.2	597.7	598.2	42.5°	30.3	30.9
613.5	613.5	613.5	617.3	613.5	613.5	613.5	614.4	615.4	616.9	45°	27.4	27.7
631.1	631.1	631.1	634.0	631.1	631.1	631.1	631.6	632.0	633.0	47.5°	25.5	25.5
646.8	647.3	647.8	650.7	647.8	647.3	646.8	645.3	643.8	643.4	50°	24.3	24.5
656.6	656.6	656.6	660.5	656.6	656.6	656.6	654.7	652.7	650.7	52.5°	23.6	24.0
663.5	664.5	665.5	668.4	665.5	664.5	663.5	663.5	663.5	662.1	55°	23.4	24.0
671.3	672.8	674.3	677.2	674.3	672.8	671.3	672.3	673.3	674.3	57.5°	23.4	23.6
679.2	680.6	682.2	685.0	682.2	680.6	679.2	679.2	679.2	679.7	59°	23.0	23.4
682.2	683.1	684.1	686.0	684.1	683.1	682.2	681.2	680.2	678.7	60°	23.0	23.6
684.1	684.6	685.0	687.0	685.0	684.6	684.1	683.1	682.2	680.2	62.5°	22.1	22.6
687.0	689.4	692.0	693.9	692.0	689.4	687.0	686.6	686.0	685.0	65°	21.4	22.1
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	67.5°	20.5	21.4
										70°	19.5	20.5
										72.5°	18.2	19.5
										75°	17.0	18.0
										77.5°	15.5	16.3
										80°	13.6	13.8
										82.5°	11.4	11.4
										85°	8.5	7.5
										87.5°	4.7	5.0
										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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0-LED-E1-SLL-7027-ULG

**tinued):**

**CANDELA DISTRIBUTION (continued):**

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	110°	100.1	106.0	111.9
528.9	528.9	538.4	539.3	528.3	531.2	536.5	530.2	537.2	112.5°	131.5	135.9	140.3
443.9	440.1	440.3	437.8	442.2	437.3	442.7	440.7	439.1	115°	164.9	167.8	170.8
344.6	351.2	346.6	337.4	344.6	339.0	328.3	329.2	317.2	117.5°	198.3	199.7	201.2
258.9	254.2	251.7	247.3	235.6	237.8	225.8	227.8	231.9	120°	232.6	235.5	238.5
178.7	175.2	179.2	176.3	171.7	172.7	175.2	177.7	184.3	122.5°	266.0	269.0	271.8
125.3	123.8	122.9	124.8	130.2	132.9	137.0	144.5	148.4	125°	299.3	301.8	304.3
94.2	94.5	93.5	96.4	100.8	103.0	103.9	104.7	109.1	127.5°	332.7	333.2	333.7
77.8	79.1	78.7	79.7	78.4	77.2	78.2	76.3	74.6	130°	363.2	364.2	365.1
68.0	68.5	66.7	66.5	64.6	63.0	61.7	61.7	61.2	132.5°	396.5	397.1	397.5
57.6	58.0	56.4	56.4	56.1	57.0	56.4	55.2	54.8	135°	427.0	428.0	428.9
51.7	51.0	50.0	50.0	49.5	49.5	49.8	50.0	49.8	137.5°	455.4	457.3	459.3
46.4	45.6	45.4	45.6	45.4	45.6	46.0	45.6	46.0	140°	481.9	484.8	487.8
42.5	42.0	42.0	42.2	42.0	42.2	42.2	42.2	42.0	142.5°	511.3	513.3	515.3
39.3	38.8	38.8	38.8	38.4	37.8	37.2	36.2	35.2	145°	539.8	540.3	540.8
36.9	36.5	35.9	35.7	34.7	32.8	32.1	32.1	32.1	147.5°	563.3	563.9	564.3
34.7	34.0	33.7	32.5	31.2	30.5	30.5	30.5	30.5	150°	582.0	582.0	582.0
31.8	30.9	30.3	29.9	29.6	29.6	29.4	29.4	29.4	152.5°	598.7	598.7	598.7
28.4	28.0	28.0	28.4	28.4	28.4	28.4	28.0	28.4	155°	618.3	617.3	616.3
26.1	26.1	26.5	26.8	27.1	27.4	27.7	27.4	27.7	157.5°	634.0	633.6	633.0
25.2	25.2	25.2	25.8	26.1	26.5	27.1	27.1	27.1	160°	642.8	642.8	642.8
24.5	24.5	25.0	25.2	25.5	25.8	26.1	26.5	26.8	162.5°	648.8	649.7	650.7
24.3	24.5	24.3	24.5	25.0	25.5	25.8	25.8	26.1	165°	660.5	660.5	660.5
24.3	24.3	24.3	24.3	25.0	25.2	25.0	25.2	25.5	167.5°	675.3	673.8	672.3
24.3	24.3	24.0	24.3	24.5	25.0	24.5	24.5	25.2	170°	680.2	679.2	678.2
24.0	24.3	24.0	24.0	24.3	24.5	24.3	24.5	25.0	172.5°	677.2	677.2	677.2
23.4	23.6	23.4	23.6	23.6	24.0	24.0	24.0	24.3	175°	678.2	677.7	677.2
22.6	22.6	22.6	23.0	23.0	23.4	23.4	23.6	23.4	177.5°	684.1	683.1	682.2
22.1	22.1	22.1	22.4	22.4	22.6	23.0	22.6	22.6	180°	687.0	687.0	687.0
21.4	21.1	20.8	21.1	21.4	21.4	21.6	21.4	21.6				
20.5	20.1	19.9	19.9	20.1	20.1	20.5	20.1	20.1				
19.0	19.0	18.2	18.2	18.2	18.2	18.5	18.2	18.0				
17.0	17.0	16.3	16.3	16.3	16.3	16.1	16.1	16.1				
14.1	14.6	14.6	14.1	14.1	13.8	13.8	13.6	13.3				
10.7	11.4	11.7	11.7	11.7	11.7	11.7	11.0	10.4				
7.5	8.5	9.4	9.4	9.2	9.2	9.2	8.2	7.3				
4.7	5.7	6.0	6.6	5.7	5.4	5.4	4.7	4.4				
6.8	6.8	7.5	8.2	9.8	9.8	10.2	8.4	7.2				
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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SLL-7027-ULG

**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°	618.4	618.4	618.4	618.4
142.8	145.3	146.2	147.2	146.7	146.2	145.3	144.3	2.5°	531.2	542.8	544.4	545.9
173.2	175.7	177.1	178.7	177.1	175.7	174.7	173.7	5°	436.7	448.3	441.7	444.5
204.2	207.1	209.0	211.0	208.6	206.1	205.2	204.2	7.5°	318.8	311.3	321.1	327.1
239.9	241.5	243.4	245.3	242.9	240.5	239.5	238.5	10°	232.8	241.6	245.3	252.3
272.8	273.8	275.8	277.8	275.3	272.8	271.8	270.9	12.5°	193.1	198.7	205.7	216.7
305.7	307.2	308.2	309.2	306.7	304.3	304.3	304.3	15°	156.6	160.7	169.5	180.2
336.1	338.6	339.1	339.6	339.6	339.6	339.1	338.6	17.5°	114.1	120.0	125.8	134.6
367.6	370.0	372.0	374.0	374.0	374.0	373.0	372.0	20°	76.5	79.1	86.0	90.1
400.5	403.4	405.9	408.3	407.3	406.3	406.3	406.3	22.5°	61.4	62.4	63.6	67.1
431.8	434.8	437.3	439.7	439.2	438.7	440.2	441.7	25°	55.2	55.8	56.8	58.0
461.8	464.2	465.2	466.2	466.7	467.2	469.6	472.1	27.5°	50.0	50.5	51.3	52.0
489.3	490.7	491.7	492.7	493.7	494.7	497.1	499.5	30°	45.6	45.4	45.6	46.6
516.3	517.2	520.2	523.2	523.2	523.2	523.6	524.1	32.5°	41.0	41.0	41.6	41.6
543.3	545.7	548.7	551.6	551.1	550.6	549.1	547.7	35°	35.2	34.9	35.7	36.5
566.8	569.3	571.7	574.2	574.6	575.2	573.7	572.2	37.5°	32.5	32.8	33.3	34.0
584.0	586.0	587.4	588.9	590.4	591.8	593.3	594.8	40°	30.9	31.2	31.8	32.5
599.2	599.7	601.1	602.7	604.6	606.5	609.1	611.5	42.5°	29.4	29.9	30.5	31.5
615.4	614.4	616.9	619.3	621.8	624.2	625.2	626.2	45°	28.4	28.9	29.9	30.9
632.6	632.0	634.0	636.0	637.0	638.0	638.0	638.0	47.5°	28.0	28.7	29.6	30.9
644.4	645.8	648.8	651.7	650.2	648.8	648.3	647.8	50°	27.4	28.4	29.4	30.5
652.7	654.7	656.6	658.5	658.1	657.6	656.6	655.7	52.5°	27.4	28.0	28.9	30.5
660.1	659.5	662.1	664.5	665.9	667.4	666.5	665.5	55°	26.5	27.4	28.4	29.9
668.9	665.5	668.4	671.3	673.3	675.3	675.3	675.3	57.5°	25.8	26.5	27.7	29.6
675.7	673.3	674.8	676.2	678.7	681.2	682.2	683.1	59°	25.5	26.1	27.4	29.4
676.7	676.2	677.7	679.2	680.2	681.2	682.2	683.1	60°	25.0	25.8	27.1	28.9
677.2	677.2	679.7	682.2	682.6	683.1	682.2	681.2	62.5°	24.3	25.2	26.5	28.4
681.6	681.2	683.6	686.0	687.0	688.0	686.6	685.0	65°	23.4	24.5	25.8	27.1
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	67.5°	22.6	23.4	24.5	25.8
								70°	21.4	22.1	23.0	24.0
								72.5°	19.9	20.1	20.8	21.6
								75°	17.7	18.0	18.2	19.2
								77.5°	15.5	15.5	15.7	17.0
								80°	12.9	12.9	13.3	13.8
								82.5°	9.8	9.8	10.4	11.4
								85°	7.0	6.6	7.5	8.2
								87.5°	4.1	3.9	4.1	4.1
								90°	7.2	7.8	8.4	9.4
								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°
618.4	618.4	618.4	618.4	618.4	618.4	618.4	110°	114.8	113.8	115.3	116.8	117.8
552.3	549.1	551.6	561.4	564.9	569.3	584.1	112.5°	144.3	144.3	145.3	146.2	146.7
451.5	455.5	451.5	471.3	472.1	485.4	490.8	115°	174.7	173.7	174.7	175.7	177.1
331.7	337.0	345.8	359.1	362.9	381.8	397.9	117.5°	205.2	204.2	205.2	206.1	208.6
258.9	265.9	278.1	286.4	294.6	305.5	318.4	120°	238.5	238.5	239.5	240.5	242.9
230.0	237.2	247.9	258.4	270.0	278.5	289.3	122.5°	271.8	270.9	271.8	272.8	275.3
192.1	203.5	213.9	227.5	237.2	252.6	265.3	125°	304.3	304.3	304.3	304.3	306.7
146.9	162.5	172.9	189.4	204.2	217.7	234.6	127.5°	340.5	338.6	339.1	339.6	339.6
102.0	114.4	127.6	145.3	164.4	183.1	205.7	130°	373.0	372.0	373.0	374.0	374.0
70.2	76.9	87.0	105.2	125.0	151.8	176.3	132.5°	407.3	406.3	406.3	406.3	407.3
59.8	62.4	66.1	75.0	91.6	121.0	148.1	135°	442.7	441.7	440.2	438.7	439.2
53.2	55.2	57.6	62.1	70.9	91.1	121.0	137.5°	473.0	472.1	469.6	467.2	466.7
48.9	51.0	53.6	56.8	61.4	75.3	97.6	140°	501.5	499.5	497.1	494.7	493.7
42.8	44.5	46.6	50.0	53.6	64.6	86.2	142.5°	526.0	524.1	523.6	523.2	523.2
37.8	39.6	42.5	45.1	48.5	57.3	78.4	145°	549.7	547.7	549.1	550.6	551.1
35.2	37.2	39.6	42.0	44.5	51.7	72.8	147.5°	574.2	572.2	573.7	575.2	574.6
33.7	35.7	38.1	40.1	41.6	49.8	70.6	150°	598.7	594.8	593.3	591.8	590.4
32.8	34.9	37.2	38.4	41.6	50.8	65.1	152.5°	616.3	611.5	609.1	606.5	604.6
32.5	34.7	37.2	39.3	45.6	47.9	61.7	155°	629.2	626.2	625.2	624.2	621.8
32.8	34.7	37.8	44.1	44.5	45.4	58.0	157.5°	642.8	638.0	638.0	638.0	637.0
32.8	35.7	42.2	46.0	42.2	42.8	54.4	160°	653.7	647.8	648.3	648.8	650.2
33.1	36.9	43.7	42.8	41.0	40.1	50.8	162.5°	661.5	655.7	656.6	657.6	658.1
33.1	36.2	42.0	40.3	37.8	38.1	46.4	165°	669.3	665.5	666.5	667.4	665.9
32.1	36.2	40.3	36.5	34.7	36.2	42.5	167.5°	681.2	675.3	675.3	675.3	673.3
31.5	37.2	35.9	33.7	33.7	35.2	40.6	170°	688.0	683.1	682.2	681.2	678.7
31.2	38.1	34.0	32.8	32.8	34.9	39.6	172.5°	688.0	683.1	682.2	681.2	680.2
30.3	35.7	31.2	30.5	31.5	33.1	38.4	175°	686.0	681.2	682.2	683.1	682.6
28.4	29.6	28.7	28.7	29.9	31.8	37.8	177.5°	689.0	685.0	686.6	688.0	687.0
26.1	26.8	26.8	27.1	28.4	29.9	38.4	180°	687.0	687.0	687.0	687.0	687.0
24.3	24.3	25.0	25.2	26.1	28.4	36.9						
22.1	22.4	22.4	23.0	23.6	25.8	35.7						
19.5	19.5	20.1	20.1	21.1	23.4	31.8						
17.0	17.0	17.0	17.3	18.0	20.1	26.1						
14.1	14.1	14.1	14.6	14.8	16.7	19.9						
11.4	11.0	10.7	10.7	11.4	12.9	15.5						
7.8	7.8	7.5	7.5	7.5	8.5	10.4						
4.4	3.9	4.1	4.4	4.1	4.7	5.7						
9.2	9.4	8.8	8.2	8.2	8.2	9.3						
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°	618.4	618.4	618.4	618.4	618.4	618.4
147.2	146.2	145.3	142.8	140.3	135.9	2.5°	582.2	590.4	603.3	605.7	616.1	623.4
178.7	177.1	175.7	173.2	170.8	167.8	5°	493.3	512.8	519.8	533.3	556.9	569.0
211.0	209.0	207.1	204.2	201.2	199.7	7.5°	407.0	421.8	438.6	460.2	477.6	498.1
245.3	243.4	241.5	239.9	238.5	235.5	10°	334.9	356.0	377.6	395.3	419.6	444.2
277.8	275.8	273.8	272.8	271.8	269.0	12.5°	297.4	309.1	330.5	355.4	385.6	413.0
309.2	308.2	307.2	305.7	304.3	301.8	15°	277.8	291.7	314.7	341.2	373.3	407.3
339.6	339.1	338.6	336.1	333.7	333.2	17.5°	253.6	275.6	301.8	339.6	381.2	428.4
374.0	372.0	370.0	367.6	365.1	364.2	20°	229.7	256.5	290.8	340.5	398.2	459.7
408.3	405.9	403.4	400.5	397.5	397.1	22.5°	208.6	240.4	283.9	346.2	420.0	501.8
439.7	437.3	434.8	431.8	428.9	428.0	25°	183.6	226.2	278.5	357.9	453.4	558.6
466.2	465.2	464.2	461.8	459.3	457.3	27.5°	163.9	212.7	270.6	367.9	483.8	613.0
492.7	491.7	490.7	489.3	487.8	484.8	30°	141.8	196.9	259.6	371.4	521.1	657.8
523.2	520.2	517.2	516.3	515.3	513.3	32.5°	124.1	182.1	246.9	368.2	537.7	689.0
551.6	548.7	545.7	543.3	540.8	540.3	35°	115.6	171.4	236.3	357.3	551.6	722.7
574.2	571.7	569.3	566.8	564.3	563.9	37.5°	110.0	159.7	225.8	339.0	567.4	756.0
588.9	587.4	586.0	584.0	582.0	582.0	40°	102.7	150.6	217.4	325.7	579.7	783.8
602.7	601.1	599.7	599.2	598.7	598.7	42.5°	96.1	142.4	210.7	314.0	582.8	808.7
619.3	616.9	614.4	615.4	616.3	617.3	45°	90.4	137.4	205.7	314.7	585.0	843.3
636.0	634.0	632.0	632.6	633.0	633.6	47.5°	86.0	132.6	203.8	325.5	608.3	891.5
651.7	648.8	645.8	644.4	642.8	642.8	50°	81.9	128.5	200.7	346.2	645.8	956.8
658.5	656.6	654.7	652.7	650.7	649.7	52.5°	77.2	122.9	196.5	367.7	686.8	1044.0
664.5	662.1	659.5	660.1	660.5	660.5	55°	70.9	115.3	192.1	385.6	742.4	1150.2
671.3	668.4	665.5	668.9	672.3	673.8	57.5°	61.2	106.4	189.4	394.7	776.9	1211.3
676.2	674.8	673.3	675.7	678.2	679.2	59°	56.1	97.9	187.7	390.3	785.9	1221.7
679.2	677.7	676.2	676.7	677.2	677.2	60°	53.2	93.0	185.2	384.9	788.5	1215.0
682.2	679.7	677.2	677.2	677.2	677.7	62.5°	49.5	80.9	174.8	358.2	753.2	1135.1
686.0	683.6	681.2	681.6	682.2	683.1	65°	50.5	76.5	151.3	305.0	672.3	978.8
687.0	687.0	687.0	687.0	687.0	687.0	67.5°	51.7	74.6	130.7	246.3	535.9	809.9
						70°	50.8	73.8	118.8	195.9	401.4	606.4
						72.5°	49.5	69.6	103.0	157.6	254.5	424.7
						75°	43.7	58.6	80.9	108.1	160.7	309.4
						77.5°	34.3	45.1	57.3	67.1	81.6	218.3
						80°	25.2	32.8	37.5	40.3	45.4	149.0
						82.5°	18.0	22.1	24.0	25.5	30.3	111.5
						85°	13.6	15.5	16.7	16.7	20.5	78.7
						87.5°	7.5	7.8	7.8	8.5	10.2	21.4
						90°	10.0	10.0	9.7	9.5	8.4	7.2
						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°
618.4	618.4	618.4	110°	100.1	92.7	85.4	79.1	72.7	69.7	66.7
631.6	636.4	640.1	112.5°	131.5	125.1	118.8	111.4	104.0	100.6	97.2
587.2	598.9	601.1	115°	164.9	160.4	156.0	150.2	144.3	140.3	136.5
520.7	539.6	546.3	117.5°	198.3	195.8	193.3	189.5	185.5	183.1	180.6
471.9	492.5	499.3	120°	232.6	230.7	228.7	225.3	221.8	220.4	218.8
445.1	469.1	476.6	122.5°	266.0	264.0	262.0	259.1	256.2	255.7	255.2
445.8	474.5	485.4	125°	299.3	296.4	293.5	291.9	290.5	289.5	288.5
474.8	507.5	521.1	127.5°	332.7	329.8	326.8	324.8	322.9	322.9	322.9
524.5	572.1	582.2	130°	363.2	361.2	359.2	357.3	355.3	354.8	354.3
591.9	638.5	653.7	132.5°	396.5	395.1	393.5	389.7	385.7	386.2	386.7
655.2	716.9	728.6	135°	427.0	425.4	424.0	421.0	418.1	418.1	418.1
717.7	778.7	789.1	137.5°	455.4	453.5	451.5	450.9	450.5	449.5	448.5
765.9	829.8	838.6	140°	481.9	481.0	480.0	479.0	478.0	477.0	476.0
812.2	884.3	894.0	142.5°	511.3	509.9	508.4	507.9	507.5	506.5	505.5
863.8	943.5	954.9	145°	539.8	538.4	536.8	535.4	534.0	534.9	535.9
910.4	1001.8	1009.1	147.5°	563.3	563.3	563.3	561.9	560.5	560.9	561.4
962.1	1049.4	1051.3	150°	582.0	582.0	582.0	582.0	582.0	581.6	581.0
1004.3	1084.6	1085.2	152.5°	598.7	598.2	597.7	597.2	596.7	596.7	596.7
1045.3	1117.7	1118.0	155°	618.3	616.9	615.4	614.4	613.5	613.5	613.5
1088.0	1154.0	1149.2	157.5°	634.0	633.0	632.0	631.6	631.1	631.1	631.1
1155.8	1196.8	1201.6	160°	642.8	643.4	643.8	645.3	646.8	647.3	647.8
1258.9	1295.4	1300.7	162.5°	648.8	650.7	652.7	654.7	656.6	656.6	656.6
1378.6	1429.2	1422.1	165°	660.5	662.1	663.5	663.5	663.5	664.5	665.5
1429.2	1487.2	1493.3	167.5°	675.3	674.3	673.3	672.3	671.3	672.8	674.3
1420.8	1499.8	1509.9	170°	680.2	679.7	679.2	679.2	679.2	680.6	682.2
1407.3	1496.0	1508.3	172.5°	677.2	678.7	680.2	681.2	682.2	683.1	684.1
1330.4	1456.7	1475.8	175°	678.2	680.2	682.2	683.1	684.1	684.6	685.0
1201.2	1375.0	1402.2	177.5°	684.1	685.0	686.0	686.6	687.0	689.4	692.0
1035.2	1253.1	1275.0	180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0
807.8	1018.5	1037.0								
536.7	699.4	731.5								
341.2	451.1	445.1								
251.7	293.3	293.6								
182.7	201.3	199.2								
141.4	122.9	122.6								
49.5	43.5	42.5								
21.4	18.0	18.2								
5.9	5.9	6.2								
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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