

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: P271853

Luminaire Tested: **ISW-AF-800-LED-E1-SL3-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35946)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISW-AF-800-LED-E1-SL3-7027-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL, 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: 5919 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U5 - G1

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

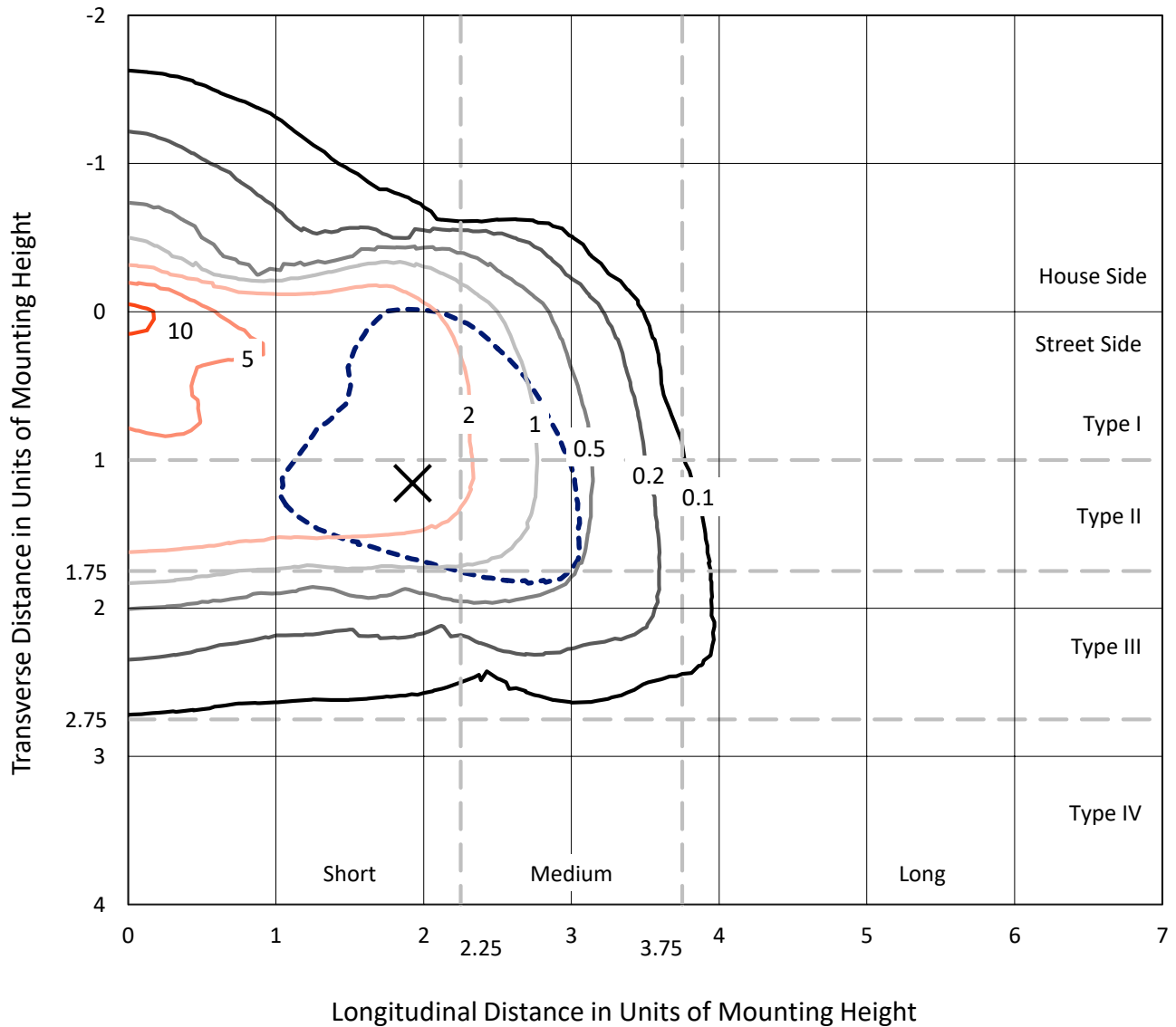


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Iso-Footcandle Lines of Horizontal Illumination

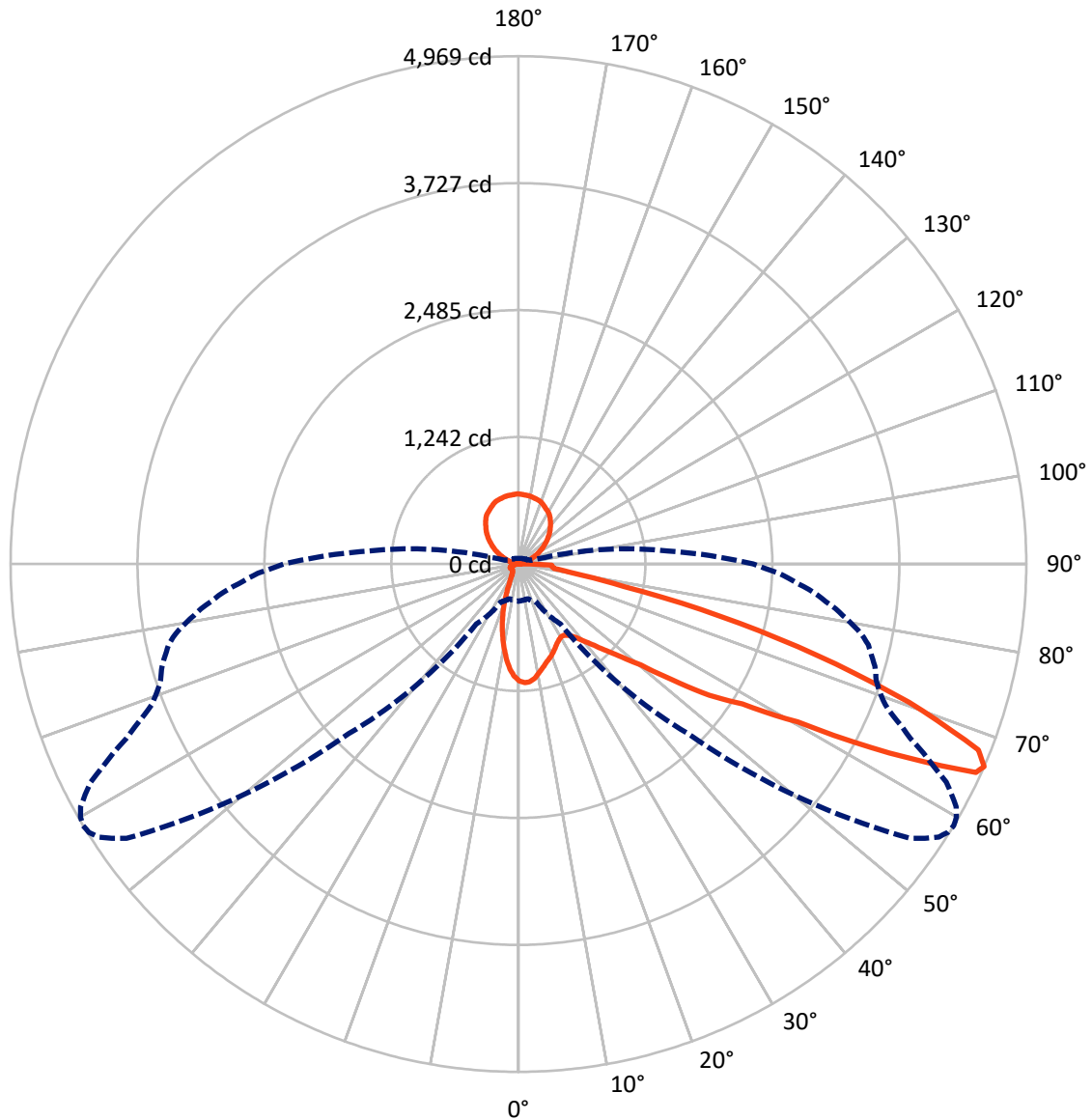
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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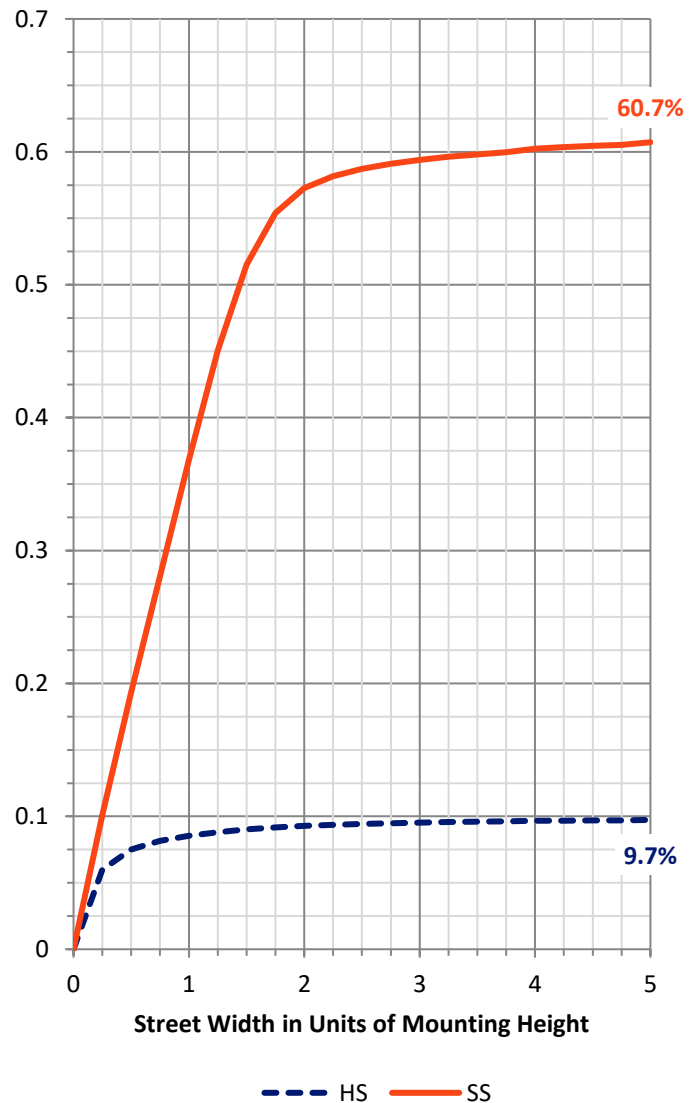
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	585.3	851.8	1437.1
	% Fixture	9.9	14.4	24.3
Street Side	Lumens	3628.9	853.0	4481.9
	% Fixture	61.3	14.4	75.7
Total	Lumens	4214.2	1704.8	5919.0
	% Fixture	71.2	28.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.6	1.6
10°-20°	206.2	3.5
20°-30°	258.6	4.4
30°-40°	353.9	6.0
40°-50°	569.3	9.6
50°-60°	989.2	16.7
60°-70°	1201.9	20.3
70°-80°	448.4	7.6
80°-90°	89.2	1.5
90°-100°	10.9	0.2
100°-110°	56.3	1.0
110°-120°	163.0	2.8
120°-130°	268.1	4.5
130°-140°	330.6	5.6
140°-150°	338.2	5.7
150°-160°	284.9	4.8
160°-170°	187.6	3.2
170°-180°	65.0	1.1
0°-90°	4214.2	71.2
0°-180°	5919.0	100.0



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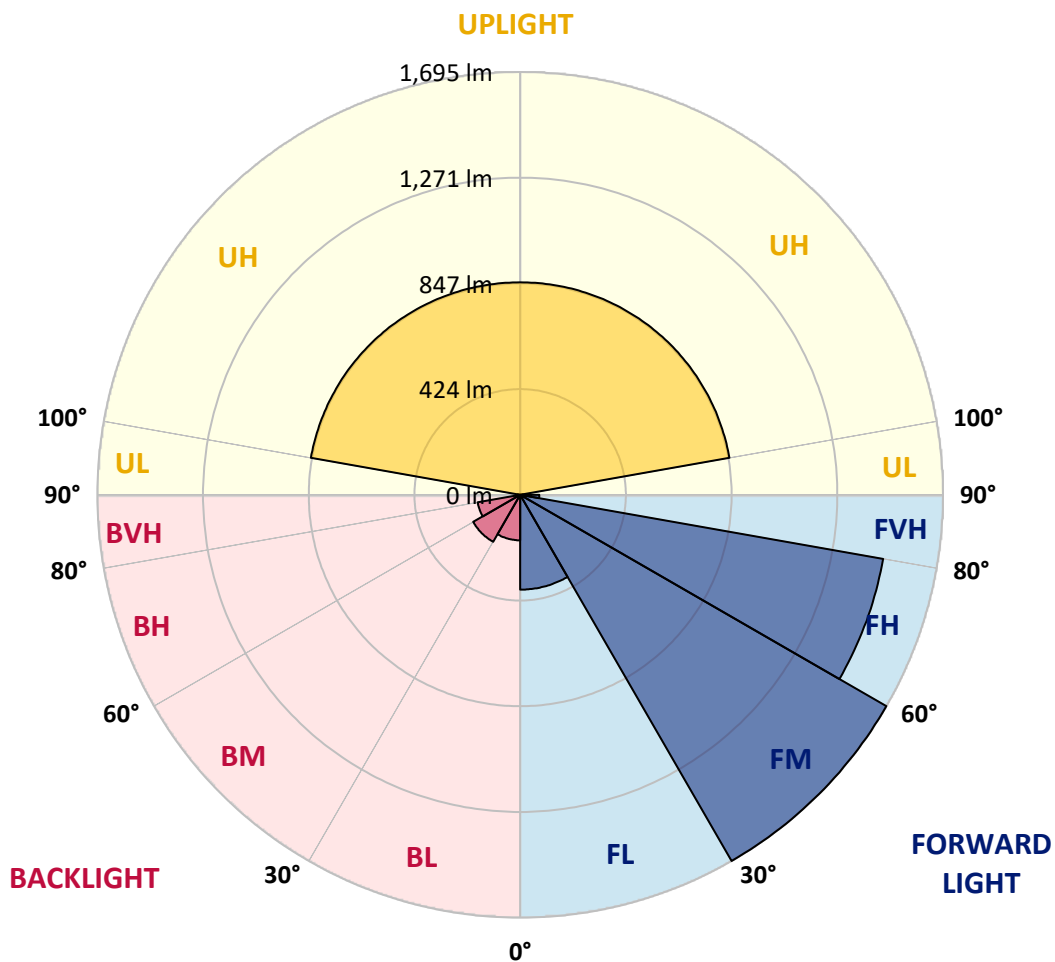
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	380.1	6.4			
FM	(30°-60°)	1694.9	28.6			
FH	(60°-80°)	1477.3	25.0			G1/1800
FVH	(80°-90°)	76.6	1.3			G1/100
BL	(0°-30°)	182.4	3.1	B1/500		
BM	(30°-60°)	217.4	3.7	B0/220		
BH	(60°-80°)	172.9	2.9	B1/500		G1/500
BVH	(80°-90°)	12.6	0.2			G1/100
UL	(90°-100°)	10.9	0.2		U2/50	
UH	(100°-180°)	851.8	14.4		U4/1000	

BUG Rating: B1-U5-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1174.8	1170.9	1178.0	1175.5	1177.4	1167.8	1165.8	1163.8	1165.1	1163.1	1163.1
5°	1147.0	1145.1	1153.5	1158.1	1161.9	1160.6	1159.9	1159.9	1160.6	1156.1	1156.7
7.5°	1065.6	1064.3	1076.0	1084.3	1103.1	1114.1	1128.3	1128.9	1130.2	1128.3	1132.1
10°	979.1	982.8	993.3	1006.8	1034.6	1051.4	1078.5	1083.7	1085.6	1086.3	1086.9
12.5°	896.3	892.5	905.3	931.3	968.7	995.8	1030.1	1032.6	1035.8	1040.3	1045.0
15°	822.7	827.2	837.5	864.7	904.1	942.2	986.8	989.3	995.8	999.7	1006.1
17.5°	772.3	772.3	784.0	809.0	845.9	894.4	950.6	955.1	960.3	965.5	972.5
20°	747.0	747.0	751.5	766.4	798.8	845.2	913.0	918.2	927.3	933.1	942.8
22.5°	745.1	744.4	743.8	747.0	766.4	802.5	873.1	880.2	888.0	897.0	905.3
25°	765.7	767.7	760.0	754.8	756.7	773.5	835.0	838.7	853.7	859.5	869.8
27.5°	795.4	798.8	792.2	784.5	772.9	761.9	802.5	809.0	818.7	828.5	841.4
30°	838.2	837.5	836.8	831.7	809.0	774.8	792.9	797.4	805.8	813.5	824.6
32.5°	884.0	889.2	893.1	890.5	867.2	809.0	806.5	810.3	818.1	822.7	829.8
35°	943.5	946.0	961.0	961.0	937.7	870.5	844.6	847.8	851.8	853.7	858.8
37.5°	1008.8	1017.8	1039.8	1052.7	1016.5	946.7	904.8	904.8	906.7	908.0	911.2
40°	1084.3	1097.3	1127.6	1152.2	1128.9	1041.8	983.6	989.3	987.5	984.8	992.0
42.5°	1172.3	1186.4	1223.3	1246.6	1233.0	1156.1	1089.6	1085.6	1091.5	1083.7	1086.3
45°	1274.3	1285.4	1322.8	1347.4	1358.3	1296.3	1228.4	1220.7	1220.7	1203.9	1211.1
47.5°	1366.1	1369.4	1405.5	1448.9	1484.4	1485.7	1389.9	1384.8	1372.6	1361.7	1359.0
50°	1451.4	1461.1	1484.4	1531.5	1605.9	1670.5	1612.3	1596.2	1582.6	1541.9	1554.2
52.5°	1599.4	1618.2	1633.0	1661.4	1749.3	1880.5	1952.3	1927.0	1923.8	1887.0	1878.5
55°	1627.2	1629.2	1678.2	1842.3	2049.1	2143.5	2281.2	2280.4	2290.9	2279.2	2268.2
57.5°	1496.7	1481.1	1563.2	1779.7	2195.2	2679.8	2637.9	2642.4	2628.8	2593.2	2582.3
60°	1165.8	1178.7	1267.1	1543.2	2089.9	3026.2	3303.4	3221.4	3280.3	3187.7	3138.0
62.5°	655.9	641.0	701.1	991.3	1714.4	3044.4	4210.2	4219.2	4247.5	4195.9	4074.4
65°	423.3	416.8	411.1	501.4	1027.5	2663.0	4711.6	4822.7	4889.3	4916.4	4918.4
66°	363.8	358.6	351.6	410.3	715.9	2346.5	4679.3	4798.2	4904.2	4954.5	4969.4
67.5°	309.6	301.8	300.6	339.9	498.2	1820.3	4371.1	4557.8	4651.5	4781.9	4853.1
70°	236.5	232.6	244.2	293.4	382.6	856.9	3483.1	3726.8	3888.3	3990.5	4056.4
72.5°	198.3	197.1	213.3	268.1	362.6	485.9	2438.2	2699.9	2868.6	2966.1	3056.7
75°	155.0	156.3	177.8	255.8	360.6	423.3	1416.4	1666.0	1764.2	1918.0	2035.6
77.5°	116.3	115.1	131.8	206.8	351.6	429.1	736.0	839.5	947.4	1025.5	1054.0
80°	81.5	82.7	94.3	142.2	274.1	441.3	458.9	482.7	505.4	530.6	535.7
82.5°	54.3	55.0	69.8	97.6	190.0	421.3	428.4	417.4	400.0	378.1	354.1
85°	33.0	34.2	49.8	65.9	147.3	381.3	443.3	414.2	387.7	358.6	329.6
87.5°	16.8	18.8	29.7	38.8	87.2	188.0	461.4	440.1	403.9	359.3	327.1
90°	9.4	9.4	13.4	17.6	25.3	44.9	123.2	111.7	59.6	107.0	56.8
92.5°	4.0	4.0	4.9	5.9	5.9	5.9	6.8	6.8	6.8	6.8	6.8
95°	4.9	4.9	5.9	6.8	6.8	6.8	6.8	7.0	7.1	7.2	7.3
97.5°	6.8	6.8	7.8	7.8	8.8	8.8	11.8	11.6	11.4	11.2	11.0
100°	7.8	7.8	8.8	9.8	11.8	20.6	28.5	28.2	27.8	27.6	27.3
102.5°	10.8	10.8	12.8	17.7	26.5	39.3	49.0	48.8	48.5	48.1	47.9
105°	20.6	21.6	26.5	35.3	47.1	61.8	70.7	70.4	70.2	70.1	69.9
107.5°	40.2	41.2	48.1	57.0	71.7	86.3	93.2	93.2	93.1	93.0	92.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
110°	64.8	66.7	72.7	85.4	100.1	111.9	117.8	117.9	117.9	118.0	118.1
112.5°	97.2	97.2	104.0	118.8	131.5	140.3	145.3	145.4	145.6	145.9	146.1
115°	137.4	136.5	144.3	156.0	164.9	170.8	175.7	176.0	176.2	176.6	176.9
117.5°	180.6	180.6	185.5	193.3	198.3	201.2	207.1	207.5	207.9	208.2	208.7
120°	220.8	218.8	221.8	228.7	232.6	238.5	241.5	241.8	242.3	242.6	243.0
122.5°	258.2	255.2	256.2	262.0	266.0	271.8	273.8	274.3	274.6	275.0	275.4
125°	292.5	288.5	290.5	293.5	299.3	304.3	307.2	307.4	307.6	307.8	308.0
127.5°	323.9	322.9	322.9	326.8	332.7	333.7	338.6	338.8	338.8	338.9	339.0
130°	356.3	354.3	355.3	359.2	363.2	365.1	370.0	370.4	370.8	371.2	371.6
132.5°	388.7	386.7	385.7	393.5	396.5	397.5	403.4	403.9	404.3	404.9	405.3
135°	421.0	418.1	418.1	424.0	427.0	428.9	434.8	435.3	435.8	436.3	436.8
137.5°	451.5	448.5	450.5	451.5	455.4	459.3	464.2	464.4	464.6	464.9	465.1
140°	479.0	476.0	478.0	480.0	481.9	487.8	490.7	490.9	491.1	491.4	491.6
142.5°	508.4	505.5	507.5	508.4	511.3	515.3	517.2	517.9	518.4	519.0	519.6
145°	539.8	535.9	534.0	536.8	539.8	540.8	545.7	546.3	546.9	547.4	548.1
147.5°	564.3	561.4	560.5	563.3	563.3	564.3	569.3	569.7	570.2	570.7	571.2
150°	584.0	581.0	582.0	582.0	582.0	582.0	586.0	586.2	586.5	586.9	587.1
152.5°	599.7	596.7	596.7	597.7	598.7	598.7	599.7	600.0	600.2	600.6	600.9
155°	617.3	613.5	613.5	615.4	618.3	616.3	614.4	614.9	615.4	615.9	616.3
157.5°	634.0	631.1	631.1	632.0	634.0	633.0	632.0	632.5	632.9	633.2	633.7
160°	650.7	647.8	646.8	643.8	642.8	642.8	645.8	646.4	647.0	647.6	648.1
162.5°	660.5	656.6	656.6	652.7	648.8	650.7	654.7	655.0	655.4	655.9	656.2
165°	668.4	665.5	663.5	663.5	660.5	660.5	659.5	660.1	660.5	661.1	661.5
167.5°	677.2	674.3	671.3	673.3	675.3	672.3	665.5	666.0	666.6	667.2	667.8
170°	685.0	682.2	679.2	679.2	680.2	678.2	673.3	673.5	673.9	674.2	674.4
172.5°	686.0	684.1	682.2	680.2	677.2	677.2	676.2	676.5	676.9	677.1	677.4
175°	687.0	685.0	684.1	682.2	678.2	677.2	677.2	677.7	678.2	678.7	679.2
177.5°	693.9	692.0	687.0	686.0	684.1	682.2	681.2	681.6	682.2	682.6	683.1
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1162.6	1163.8	1162.6	1160.6	1162.6	1160.6	1159.9	1159.4	1159.9	1158.6	1158.1
5°	1156.7	1158.1	1158.1	1154.1	1153.5	1156.1	1152.2	1153.5	1152.2	1150.9	1148.3
7.5°	1128.9	1129.6	1130.2	1127.6	1129.6	1129.6	1128.3	1128.3	1127.0	1127.6	1125.0
10°	1090.1	1092.8	1095.3	1094.0	1093.3	1099.3	1096.7	1098.5	1098.5	1096.7	1097.3
12.5°	1048.1	1052.7	1055.9	1055.9	1058.6	1065.0	1064.3	1065.6	1070.8	1070.8	1068.8
15°	1009.3	1013.8	1019.0	1023.0	1028.1	1032.6	1035.8	1041.0	1043.7	1043.7	1046.9
17.5°	979.1	985.5	991.3	993.3	1000.4	1008.1	1010.1	1016.5	1020.4	1022.3	1026.2
20°	949.3	956.3	963.5	970.0	976.5	985.5	990.0	993.9	1000.4	1004.2	1010.1
22.5°	914.5	925.3	934.5	942.2	953.2	961.0	970.0	976.5	984.3	990.0	994.5
25°	881.5	896.3	908.5	916.3	931.3	942.2	953.2	962.8	972.5	980.9	987.5
27.5°	851.1	867.9	882.8	895.0	911.2	928.6	939.5	955.8	968.7	980.3	988.0
30°	836.2	850.4	866.0	880.2	896.3	918.2	936.3	957.1	973.2	988.0	999.7
32.5°	839.5	852.3	866.0	878.3	895.0	919.5	938.3	962.3	986.1	1005.6	1020.4
35°	865.2	876.9	886.0	897.0	911.8	930.6	950.6	975.8	1005.6	1031.3	1050.7
37.5°	919.5	922.8	931.8	940.3	948.0	965.5	984.3	1005.6	1039.8	1066.8	1094.0
40°	986.8	995.2	1003.6	1007.4	1016.5	1027.5	1035.8	1058.6	1088.8	1124.4	1154.1
42.5°	1086.9	1090.1	1091.5	1092.8	1096.0	1103.7	1116.1	1136.6	1166.4	1198.1	1231.0
45°	1199.3	1203.3	1207.1	1209.1	1204.5	1209.1	1222.1	1231.7	1260.8	1290.4	1332.5
47.5°	1355.1	1343.4	1337.7	1345.4	1341.6	1351.2	1357.1	1362.9	1397.8	1433.3	1468.9
50°	1554.8	1547.7	1538.7	1539.2	1546.4	1540.0	1543.7	1565.2	1576.7	1606.5	1653.7
52.5°	1874.0	1852.0	1817.8	1803.0	1811.3	1806.2	1808.1	1812.6	1804.9	1832.7	1872.8
55°	2268.2	2239.8	2217.2	2204.2	2156.4	2152.6	2120.9	2109.3	2084.1	2110.6	2101.6
57.5°	2549.3	2531.2	2519.6	2480.8	2458.9	2414.9	2402.0	2386.4	2351.7	2369.0	2384.6
60°	3092.1	3027.6	3005.5	2937.6	2915.1	2873.0	2819.5	2793.0	2774.9	2791.7	2781.3
62.5°	3998.2	3908.3	3890.9	3730.0	3690.6	3593.6	3492.8	3479.2	3422.5	3386.8	3378.4
65°	4882.8	4754.2	4657.9	4482.1	4363.2	4225.0	4071.2	3958.7	3843.1	3784.9	3708.0
66°	4948.8	4897.6	4800.7	4698.0	4524.9	4373.6	4199.1	4077.7	3947.7	3845.6	3779.8
67.5°	4836.4	4809.2	4774.9	4705.1	4596.5	4455.8	4290.2	4135.2	3978.8	3858.6	3753.3
70°	4088.0	4117.7	4156.5	4138.4	4076.4	4021.4	3875.4	3788.8	3671.1	3513.5	3448.9
72.5°	3085.7	3165.2	3138.0	3035.9	2988.1	2950.0	2897.0	2838.8	2670.2	2650.8	2574.5
75°	1985.2	1958.7	1976.1	1852.0	1767.4	1732.5	1606.5	1554.8	1428.1	1346.1	1283.4
77.5°	1046.3	994.5	954.4	845.2	767.1	721.2	659.7	587.4	476.2	469.8	368.3
80°	485.4	445.9	409.6	371.6	333.5	283.1	245.6	200.3	177.1	151.8	141.6
82.5°	329.6	304.3	282.3	257.2	228.1	193.2	166.7	141.6	120.8	108.5	98.8
85°	298.6	271.4	246.9	215.2	184.8	155.8	127.3	105.3	86.0	75.0	68.5
87.5°	290.2	256.6	230.8	196.5	166.7	137.0	109.9	85.2	66.6	54.3	46.5
90°	44.6	47.5	36.7	35.7	20.3	23.6	19.9	15.3	15.9	14.0	14.6
92.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.7	6.6	6.6	6.5	6.4
95°	7.4	7.5	7.5	7.6	7.7	7.8	7.7	7.6	7.5	7.5	7.4
97.5°	10.8	10.6	10.4	10.2	10.0	9.8	9.7	9.6	9.5	9.4	9.3
100°	26.9	26.7	26.4	26.1	25.8	25.5	25.2	25.0	24.6	24.3	24.1
102.5°	47.6	47.3	47.0	46.7	46.4	46.2	45.6	45.2	44.6	44.2	43.7
105°	69.7	69.5	69.3	69.1	68.9	68.7	68.2	67.7	67.2	66.7	66.3
107.5°	92.7	92.6	92.5	92.4	92.3	92.3	91.9	91.4	91.1	90.7	90.3



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CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
110°	118.3	118.4	118.5	118.6	118.7	118.8	118.6	118.4	118.1	117.9	117.8
112.5°	146.2	146.4	146.6	146.9	147.1	147.2	147.1	147.1	147.0	146.9	146.7
115°	177.1	177.4	177.8	178.0	178.3	178.7	178.3	178.0	177.8	177.4	177.1
117.5°	209.0	209.5	209.8	210.2	210.7	211.0	210.6	210.0	209.6	209.0	208.6
120°	243.4	243.8	244.2	244.6	245.0	245.3	244.9	244.4	243.9	243.4	242.9
122.5°	275.8	276.2	276.6	276.9	277.4	277.8	277.3	276.8	276.3	275.8	275.3
125°	308.2	308.4	308.6	308.7	308.9	309.2	308.7	308.2	307.7	307.2	306.7
127.5°	339.1	339.2	339.3	339.4	339.5	339.6	339.6	339.6	339.6	339.6	339.6
130°	372.0	372.3	372.8	373.2	373.5	374.0	374.0	374.0	374.0	374.0	374.0
132.5°	405.9	406.3	406.8	407.3	407.8	408.3	408.1	407.9	407.7	407.5	407.3
135°	437.3	437.7	438.2	438.7	439.2	439.7	439.6	439.5	439.5	439.3	439.2
137.5°	465.2	465.4	465.6	465.8	466.0	466.2	466.3	466.4	466.5	466.6	466.7
140°	491.7	491.9	492.1	492.3	492.5	492.7	492.9	493.1	493.3	493.5	493.7
142.5°	520.2	520.7	521.4	521.9	522.5	523.2	523.2	523.2	523.2	523.2	523.2
145°	548.7	549.2	549.9	550.4	551.0	551.6	551.5	551.4	551.3	551.2	551.1
147.5°	571.7	572.2	572.7	573.2	573.7	574.2	574.3	574.4	574.5	574.6	574.6
150°	587.4	587.7	588.0	588.3	588.6	588.9	589.2	589.5	589.7	590.1	590.4
152.5°	601.1	601.4	601.8	602.0	602.3	602.7	603.0	603.4	603.8	604.2	604.6
155°	616.9	617.3	617.9	618.3	618.8	619.3	619.8	620.3	620.8	621.3	621.8
157.5°	634.0	634.5	634.8	635.2	635.6	636.0	636.2	636.4	636.6	636.8	637.0
160°	648.8	649.4	649.9	650.6	651.1	651.7	651.5	651.1	650.8	650.6	650.2
162.5°	656.6	657.0	657.4	657.8	658.2	658.5	658.5	658.4	658.3	658.2	658.1
165°	662.1	662.5	662.9	663.5	663.9	664.5	664.7	665.0	665.4	665.6	665.9
167.5°	668.4	669.0	669.6	670.1	670.8	671.3	671.8	672.1	672.5	672.9	673.3
170°	674.8	675.1	675.3	675.6	676.0	676.2	676.7	677.2	677.7	678.2	678.7
172.5°	677.7	678.0	678.3	678.6	678.8	679.2	679.4	679.6	679.7	679.9	680.2
175°	679.7	680.2	680.6	681.2	681.6	682.2	682.3	682.4	682.4	682.5	682.6
177.5°	683.6	684.1	684.6	685.0	685.6	686.0	686.2	686.5	686.7	686.8	687.0
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):

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1156.7	1154.8	1156.7	1156.1	1153.5	1154.1	1154.8	1152.2	1150.9	1150.9	1150.3
5°	1146.3	1145.1	1146.3	1145.8	1141.8	1141.3	1141.3	1139.3	1136.6	1134.8	1133.5
7.5°	1121.8	1123.2	1122.5	1120.5	1118.6	1118.6	1116.6	1112.1	1109.6	1107.0	1104.4
10°	1094.0	1094.0	1094.8	1094.0	1090.8	1089.6	1086.9	1084.3	1085.1	1078.5	1073.4
12.5°	1069.5	1069.5	1068.8	1067.5	1065.6	1065.0	1065.0	1057.2	1055.3	1053.4	1047.5
15°	1046.3	1047.5	1047.5	1047.5	1044.3	1044.3	1041.0	1035.8	1035.8	1030.1	1024.2
17.5°	1028.1	1030.1	1029.5	1030.1	1030.7	1026.9	1021.0	1017.8	1013.8	1010.8	1003.0
20°	1012.6	1013.8	1014.5	1014.5	1012.6	1010.1	1004.8	999.7	997.1	990.7	980.9
22.5°	998.4	1001.0	1001.6	1001.6	999.0	997.1	992.0	984.3	979.1	971.2	962.3
25°	992.5	995.8	993.9	995.2	992.5	988.0	980.9	974.5	966.8	957.1	947.4
27.5°	994.5	999.0	997.7	997.1	993.9	990.7	981.6	973.9	964.8	953.2	940.9
30°	1006.1	1013.8	1010.8	1008.1	1007.4	999.7	991.3	980.3	970.0	956.3	942.2
32.5°	1028.1	1032.1	1032.6	1030.7	1027.5	1021.0	1009.3	995.2	983.6	967.4	950.6
35°	1064.3	1068.3	1066.8	1066.8	1063.6	1053.4	1039.1	1024.9	1008.8	990.7	973.2
37.5°	1114.8	1121.8	1120.5	1118.0	1114.1	1101.8	1090.8	1073.4	1055.3	1031.3	1011.3
40°	1178.0	1189.1	1198.8	1196.8	1187.8	1176.8	1166.4	1146.3	1128.3	1101.8	1079.9
42.5°	1263.4	1278.2	1290.4	1299.6	1295.6	1281.4	1263.4	1254.9	1229.2	1201.9	1179.4
45°	1372.6	1403.6	1414.7	1425.6	1425.6	1416.4	1412.7	1395.9	1368.7	1332.5	1311.2
47.5°	1516.7	1558.0	1570.2	1589.0	1600.0	1590.4	1583.3	1554.8	1536.7	1487.0	1481.8
50°	1691.8	1733.2	1766.8	1788.7	1785.5	1793.9	1777.0	1760.9	1735.7	1695.0	1680.8
52.5°	1915.4	1948.3	1978.8	1991.6	2005.3	2003.3	1999.4	1988.4	1956.8	1934.8	1898.6
55°	2144.8	2171.9	2208.8	2230.1	2247.6	2244.3	2229.4	2202.9	2208.8	2162.8	2142.9
57.5°	2405.9	2435.7	2475.7	2495.7	2503.5	2542.9	2533.2	2530.0	2518.9	2502.8	2482.2
60°	2855.0	2863.3	2896.3	2946.8	3008.9	2996.6	3012.1	3022.3	3030.2	2993.9	2991.4
62.5°	3390.0	3400.4	3428.8	3439.3	3448.2	3449.5	3428.8	3428.8	3393.3	3346.7	3310.5
65°	3682.2	3660.9	3641.5	3630.5	3606.5	3585.2	3554.2	3512.2	3452.1	3380.4	3315.7
66°	3724.1	3680.9	3655.7	3627.9	3589.8	3550.3	3513.5	3456.0	3385.5	3300.2	3214.9
67.5°	3683.4	3624.0	3565.2	3524.5	3471.5	3400.4	3335.8	3268.6	3202.0	3085.0	3005.5
70°	3311.9	3240.7	3176.1	3086.9	3002.9	2933.1	2822.0	2705.1	2608.8	2486.0	2407.7
72.5°	2459.5	2375.5	2291.5	2166.2	2044.0	2025.9	1886.4	1748.7	1675.0	1576.2	1496.7
75°	1214.9	1108.9	958.3	891.2	793.6	745.8	719.3	619.7	595.8	498.2	496.9
77.5°	343.2	294.6	261.8	228.1	213.9	203.6	168.1	160.9	146.1	143.5	135.0
80°	129.9	122.8	119.6	116.3	113.1	111.1	109.9	104.7	102.0	98.3	96.3
82.5°	93.7	91.1	85.2	83.4	80.8	77.0	76.3	73.0	71.1	67.2	65.9
85°	63.3	60.1	56.9	53.6	52.3	51.7	49.8	48.5	47.3	45.3	44.6
87.5°	42.7	39.4	35.6	34.2	33.6	34.2	34.9	33.6	33.0	31.7	31.0
90°	14.0	15.9	15.3	15.3	16.6	15.1	14.9	15.3	14.6	14.4	13.5
92.5°	6.3	6.2	6.1	6.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9
95°	7.3	7.2	7.1	7.0	6.8	6.8	6.8	6.8	6.8	6.8	6.8
97.5°	9.3	9.2	9.1	8.9	8.8	8.7	8.6	8.5	8.4	8.4	8.3
100°	23.7	23.4	23.2	22.9	22.5	22.2	21.8	21.4	21.0	20.6	20.2
102.5°	43.2	42.7	42.2	41.7	41.2	41.0	40.6	40.3	40.1	39.7	39.4
105°	65.8	65.3	64.8	64.3	63.8	63.4	63.0	62.6	62.3	61.8	61.4
107.5°	89.9	89.5	89.1	88.8	88.3	88.0	87.8	87.5	87.1	86.9	86.6



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	
110°	117.6	117.4	117.2	117.0	116.8	116.5	116.2	115.9	115.6	115.3	115.1	0°
112.5°	146.6	146.5	146.4	146.3	146.2	146.1	145.9	145.6	145.4	145.3	145.1	2.5°
115°	176.9	176.6	176.2	176.0	175.7	175.5	175.3	175.1	174.9	174.7	174.5	5°
117.5°	208.0	207.6	207.1	206.6	206.1	205.9	205.7	205.5	205.4	205.2	204.9	7.5°
120°	242.5	241.9	241.5	240.9	240.5	240.3	240.0	239.8	239.7	239.5	239.3	10°
122.5°	274.8	274.3	273.8	273.4	272.8	272.6	272.5	272.3	272.1	271.8	271.6	12.5°
125°	306.2	305.7	305.2	304.7	304.3	304.3	304.3	304.3	304.3	304.3	304.3	15°
127.5°	339.6	339.6	339.6	339.6	339.6	339.5	339.4	339.3	339.2	339.1	339.0	17.5°
130°	374.0	374.0	374.0	374.0	374.0	373.8	373.5	373.3	373.2	373.0	372.8	20°
132.5°	407.1	406.9	406.8	406.6	406.3	406.3	406.3	406.3	406.3	406.3	406.3	22.5°
135°	439.1	439.0	438.9	438.8	438.7	439.0	439.3	439.6	439.9	440.2	440.5	25°
137.5°	466.8	466.8	467.0	467.1	467.2	467.7	468.2	468.6	469.2	469.6	470.2	27.5°
140°	493.9	494.1	494.2	494.4	494.7	495.1	495.7	496.1	496.7	497.1	497.6	30°
142.5°	523.2	523.2	523.2	523.2	523.2	523.3	523.4	523.4	523.5	523.6	523.7	32.5°
145°	551.0	550.9	550.8	550.8	550.6	550.3	550.0	549.8	549.4	549.1	548.9	35°
147.5°	574.7	574.8	574.9	575.1	575.2	574.8	574.6	574.3	573.9	573.7	573.4	37.5°
150°	590.6	590.9	591.3	591.5	591.8	592.2	592.4	592.7	593.0	593.3	593.6	40°
152.5°	605.0	605.4	605.7	606.2	606.5	607.1	607.5	608.1	608.5	609.1	609.5	42.5°
155°	622.3	622.7	623.2	623.7	624.2	624.4	624.6	624.8	625.0	625.2	625.4	45°
157.5°	637.2	637.3	637.5	637.8	638.0	638.0	638.0	638.0	638.0	638.0	638.0	47.5°
160°	649.9	649.7	649.4	649.0	648.8	648.7	648.6	648.5	648.4	648.3	648.1	50°
162.5°	658.0	657.9	657.8	657.6	657.6	657.4	657.2	657.0	656.8	656.6	656.4	52.5°
165°	666.3	666.5	666.8	667.1	667.4	667.2	667.0	666.8	666.6	666.5	666.3	55°
167.5°	673.7	674.1	674.4	674.9	675.3	675.3	675.3	675.3	675.3	675.3	675.3	57.5°
170°	679.2	679.7	680.2	680.6	681.2	681.4	681.5	681.7	681.9	682.2	682.4	60°
172.5°	680.4	680.6	680.7	680.9	681.2	681.4	681.5	681.7	681.9	682.2	682.4	62.5°
175°	682.7	682.8	682.9	683.0	683.1	682.9	682.7	682.5	682.4	682.2	681.9	65°
177.5°	687.2	687.5	687.7	687.8	688.0	687.7	687.5	687.1	686.8	686.6	686.2	66°
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

82°	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	110°	114.7
1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	110°	114.7
1149.0	1147.0	1147.7	1145.1	1144.4	1145.8	1146.3	1146.3	1144.4	1132.9	1119.3	112.5°	144.9
1132.1	1128.3	1127.6	1125.8	1122.5	1126.4	1124.4	1121.2	1117.3	1103.7	1077.2	115°	174.3
1101.1	1098.5	1095.3	1092.8	1090.8	1089.6	1088.8	1085.6	1078.5	1053.4	1008.8	117.5°	204.7
1071.4	1068.3	1064.3	1058.6	1055.9	1052.1	1052.1	1044.3	1039.1	1007.4	941.5	120°	239.1
1042.3	1036.6	1034.6	1030.7	1023.6	1020.4	1015.8	1008.1	1000.4	962.3	875.6	122.5°	271.5
1020.4	1014.5	1006.1	1003.6	995.8	988.8	982.8	972.5	964.2	913.8	806.5	125°	304.3
996.5	992.0	982.8	977.1	968.7	960.3	950.6	937.7	931.8	867.9	740.6	127.5°	338.9
977.1	966.8	956.3	951.2	940.9	931.3	921.5	906.0	894.4	822.7	670.8	130°	372.5
954.4	945.5	934.5	925.3	911.2	900.2	889.2	873.1	858.8	776.8	600.3	132.5°	406.3
939.0	926.1	914.5	904.1	888.0	874.9	859.5	842.0	827.8	732.7	522.8	135°	440.8
929.9	917.0	902.1	889.2	870.5	855.5	838.7	819.4	801.3	697.3	449.8	137.5°	470.6
927.3	911.8	896.3	880.2	860.8	842.0	821.9	802.5	779.3	662.9	370.3	140°	498.1
935.0	916.3	898.9	879.5	856.9	835.5	815.5	790.3	767.1	633.2	292.1	142.5°	523.8
956.3	933.8	913.8	892.5	866.5	843.3	819.4	791.0	765.2	612.6	223.6	145°	548.5
990.0	968.7	945.5	924.1	894.4	868.5	842.0	811.7	780.6	604.2	168.6	147.5°	573.1
1057.8	1029.5	1005.6	982.8	948.6	922.2	891.7	855.0	820.1	611.9	140.9	150°	593.9
1152.9	1117.3	1095.3	1075.3	1032.6	1003.6	968.7	926.7	887.3	633.9	124.1	152.5°	609.9
1284.0	1256.9	1217.5	1186.4	1143.1	1110.8	1072.0	1021.6	977.7	664.9	115.7	155°	625.6
1448.2	1412.7	1373.9	1342.2	1295.1	1238.9	1198.1	1137.3	1087.6	713.4	111.7	157.5°	638.0
1649.2	1606.5	1554.2	1527.7	1462.4	1418.4	1364.2	1298.9	1235.6	788.4	113.7	160°	648.0
1867.6	1821.8	1781.0	1730.6	1671.2	1622.0	1570.2	1501.2	1421.7	930.6	121.5	162.5°	656.2
2098.4	2068.5	2029.8	1964.5	1932.3	1870.1	1804.2	1728.0	1670.5	1115.3	140.2	165°	666.0
2434.2	2402.0	2397.5	2333.4	2284.4	2228.2	2176.4	2113.2	2045.4	1443.7	184.2	167.5°	675.3
2951.3	2917.7	2879.6	2829.8	2771.6	2701.8	2637.9	2552.5	2477.0	1772.5	204.8	170°	682.5
3257.6	3195.5	3127.1	3051.5	2966.8	2880.1	2794.3	2685.0	2575.2	1792.6	184.8	172.5°	682.5
3231.7	3154.8	3067.6	2964.9	2875.7	2769.0	2676.6	2535.7	2435.7	1596.2	150.6	175°	681.7
3136.2	3030.8	2948.7	2854.4	2742.5	2646.9	2549.3	2410.4	2296.0	1463.7	137.6	177.5°	685.9
2891.1	2801.4	2687.5	2597.2	2514.4	2400.0	2308.3	2178.4	2099.6	1269.1	123.4	180°	687.0
2310.9	2186.8	2090.5	2020.1	1926.3	1823.0	1741.5	1632.3	1562.5	840.1	106.6		
1346.1	1315.1	1207.1	1146.3	1089.6	1005.6	940.9	888.5	796.8	407.1	94.3		
414.8	385.8	381.9	324.4	343.2	293.4	285.6	259.8	259.8	156.3	74.3		
132.5	129.9	124.8	117.6	115.1	115.1	111.7	111.1	106.0	84.0	55.5		
93.7	91.8	89.8	87.9	86.6	87.2	84.7	83.4	82.0	60.7	43.9		
64.6	62.7	58.7	58.7	57.5	56.9	57.5	55.0	54.3	42.7	36.8		
43.9	43.3	42.7	42.0	41.3	40.7	40.1	38.1	36.8	29.7	25.8		
29.0	24.5	24.0	20.8	20.0	19.4	18.1	19.4	21.3	21.3	16.8		
13.9	13.0	13.6	13.4	12.0	12.7	12.7	11.4	11.4	13.4	14.6		
5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9		
6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8		
8.2	8.1	7.9	7.8	7.8	7.8	7.8	7.8	7.8	7.8	8.8		
19.9	19.4	19.0	18.7	18.7	18.7	18.7	18.7	18.7	18.7	22.5		
39.2	38.9	38.5	38.3	38.1	37.9	37.7	37.5	37.3	38.3	41.2		
61.1	60.6	60.3	59.8	59.8	59.8	59.8	59.8	59.8	59.8	63.8		
86.2	86.0	85.7	85.4	85.2	85.0	84.8	84.6	84.4	85.4	88.3		

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TION (continued):

CANDELA DISTRIBUTION (con

83°	84°	85°	86°	87°	88°	89°	90°	95°	105°		115°	125°
114.4	114.2	113.8	114.1	114.3	114.4	114.6	114.8	113.8	116.8	0°	1145.1	1145.1
144.6	144.4	144.3	144.3	144.3	144.3	144.3	144.3	144.3	146.2	2.5°	1107.6	1097.3
174.1	173.9	173.7	173.9	174.1	174.3	174.5	174.7	173.7	175.7	5°	1048.8	1025.5
204.5	204.4	204.2	204.4	204.5	204.7	204.9	205.2	204.2	206.1	7.5°	969.3	924.1
238.9	238.7	238.5	238.5	238.5	238.5	238.5	238.5	238.5	240.5	10°	878.3	813.0
271.3	271.1	270.9	271.1	271.3	271.5	271.6	271.8	270.9	272.8	12.5°	784.0	700.5
304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	15°	696.0	585.4
338.8	338.8	338.6	339.0	339.4	339.8	340.2	340.5	338.6	339.6	17.5°	603.6	467.2
372.3	372.2	372.0	372.2	372.3	372.5	372.8	373.0	372.0	374.0	20°	515.1	352.9
406.3	406.3	406.3	406.6	406.8	406.9	407.1	407.3	406.3	406.3	22.5°	414.8	247.6
441.1	441.3	441.7	441.9	442.1	442.2	442.4	442.7	441.7	438.7	25°	304.3	179.6
471.1	471.6	472.1	472.3	472.5	472.7	472.9	473.0	472.1	467.2	27.5°	217.1	143.5
498.6	499.1	499.5	500.0	500.4	500.7	501.2	501.5	499.5	494.7	30°	162.2	120.8
523.9	524.0	524.1	524.5	524.9	525.3	525.7	526.0	524.1	523.2	32.5°	129.9	104.7
548.2	548.0	547.7	548.1	548.4	548.9	549.2	549.7	547.7	550.6	35°	110.5	95.0
572.8	572.5	572.2	572.6	573.0	573.4	573.7	574.2	572.2	575.2	37.5°	98.8	88.6
594.2	594.5	594.8	595.6	596.4	597.1	597.9	598.7	594.8	591.8	40°	92.4	85.2
610.5	610.9	611.5	612.5	613.5	614.4	615.4	616.3	611.5	606.5	42.5°	88.6	82.0
625.8	626.0	626.2	626.7	627.4	627.9	628.5	629.2	626.2	624.2	45°	86.6	80.1
638.0	638.0	638.0	639.0	640.0	640.9	641.9	642.8	638.0	638.0	47.5°	85.2	77.5
647.9	647.9	647.8	648.9	650.1	651.3	652.5	653.7	647.8	648.8	50°	84.0	77.5
656.0	655.9	655.7	656.8	658.0	659.2	660.3	661.5	655.7	657.6	52.5°	84.7	78.8
665.8	665.6	665.5	666.3	667.0	667.8	668.6	669.3	665.5	667.4	55°	87.9	78.8
675.3	675.3	675.3	676.4	677.6	678.8	679.9	681.2	675.3	675.3	57.5°	93.1	78.8
682.7	682.9	683.1	684.1	685.0	686.0	687.0	688.0	683.1	681.2	60°	96.9	80.1
682.7	682.9	683.1	684.1	685.0	686.0	687.0	688.0	683.1	681.2	62.5°	98.3	82.7
681.5	681.4	681.2	682.2	683.1	684.1	685.0	686.0	681.2	683.1	65°	96.9	84.0
685.7	685.4	685.0	685.9	686.7	687.5	688.2	689.0	685.0	688.0	66°	95.6	84.0
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	67.5°	93.7	82.7
										70°	89.2	77.5
										72.5°	80.1	69.8
										75°	68.5	56.2
										77.5°	55.5	45.3
										80°	41.3	34.2
										82.5°	30.4	26.5
										85°	21.3	18.8
										87.5°	12.9	11.7
										90°	12.0	10.2
										92.5°	6.8	6.8
										95°	7.8	6.8
										97.5°	9.8	11.8
										100°	25.5	28.5
										102.5°	46.2	49.0
										105°	68.7	70.7
										107.5°	92.3	93.2



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tinued):

135°	145°	155°	165°	175°	180°
1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
1090.1	1089.6	1073.4	1070.2	1059.1	1065.0
997.7	986.8	957.8	951.8	939.5	936.3
887.3	856.9	833.6	807.8	783.2	795.4
758.0	707.0	655.9	622.3	608.7	604.2
635.2	543.5	479.4	413.6	390.3	398.7
486.6	381.9	296.6	258.5	236.5	232.6
343.2	244.9	205.5	195.8	191.2	191.2
232.6	186.8	171.8	167.4	167.4	168.1
177.1	157.0	150.6	151.3	153.8	154.5
146.7	139.0	135.7	140.2	145.3	146.1
126.6	124.8	125.3	131.2	136.4	137.0
111.1	113.1	115.7	120.8	125.3	126.6
100.3	103.3	105.3	108.5	111.1	111.7
92.4	96.3	95.6	97.6	99.5	100.3
87.9	89.8	87.9	89.2	89.2	90.5
84.0	84.7	81.5	82.0	83.4	83.4
80.1	79.5	76.3	77.5	79.5	80.1
76.3	75.0	72.3	75.0	78.2	78.8
73.0	71.8	70.4	73.8	77.5	78.2
71.8	70.4	69.2	73.8	77.5	78.2
71.8	70.4	69.2	72.3	76.3	77.0
72.3	71.1	68.5	71.8	74.3	75.0
73.0	71.8	67.2	69.2	70.4	71.1
73.0	70.4	65.9	66.6	66.6	67.2
71.8	68.5	63.3	63.3	62.7	62.7
71.8	65.9	60.7	59.5	58.2	58.2
71.1	65.3	60.1	58.2	56.2	56.2
69.8	64.0	58.7	56.2	54.3	54.3
65.3	61.4	55.5	53.0	51.0	50.5
58.2	56.2	51.7	49.8	47.8	47.3
49.0	49.8	47.3	45.8	43.9	43.3
41.3	42.7	41.3	40.7	39.4	38.8
33.0	35.6	34.2	34.2	34.9	33.6
25.2	28.5	27.2	28.5	29.7	27.8
17.4	20.8	20.8	21.3	22.0	20.8
11.0	13.6	12.9	13.6	13.6	12.9
9.4	12.4	10.4	10.8	8.2	7.5
5.9	5.9	5.9	4.9	4.0	4.0
6.8	6.8	6.8	5.9	4.9	4.9
8.8	8.8	7.8	7.8	6.8	6.8
20.6	11.8	9.8	8.8	7.8	7.8
39.3	26.5	17.7	12.8	10.8	10.8
61.8	47.1	35.3	26.5	21.6	20.6
86.3	71.7	57.0	48.1	41.2	40.2

CANDELA DISTRIBUTION (continued):

	115°	125°	135°
110°	118.8	117.8	111.9
112.5°	147.2	145.3	140.3
115°	178.7	175.7	170.8
117.5°	211.0	207.1	201.2
120°	245.3	241.5	238.5
122.5°	277.8	273.8	271.8
125°	309.2	307.2	304.3
127.5°	339.6	338.6	333.7
130°	374.0	370.0	365.1
132.5°	408.3	403.4	397.5
135°	439.7	434.8	428.9
137.5°	466.2	464.2	459.3
140°	492.7	490.7	487.8
142.5°	523.2	517.2	515.3
145°	551.6	545.7	540.8
147.5°	574.2	569.3	564.3
150°	588.9	586.0	582.0
152.5°	602.7	599.7	598.7
155°	619.3	614.4	616.3
157.5°	636.0	632.0	633.0
160°	651.7	645.8	642.8
162.5°	658.5	654.7	650.7
165°	664.5	659.5	660.5
167.5°	671.3	665.5	672.3
170°	676.2	673.3	678.2
172.5°	679.2	676.2	677.2
175°	682.2	677.2	677.2
177.5°	686.0	681.2	682.2
180°	687.0	687.0	687.0

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145°	155°	165°	175°	180°
100.1	85.4	72.7	66.7	64.8
131.5	118.8	104.0	97.2	97.2
164.9	156.0	144.3	136.5	137.4
198.3	193.3	185.5	180.6	180.6
232.6	228.7	221.8	218.8	220.8
266.0	262.0	256.2	255.2	258.2
299.3	293.5	290.5	288.5	292.5
332.7	326.8	322.9	322.9	323.9
363.2	359.2	355.3	354.3	356.3
396.5	393.5	385.7	386.7	388.7
427.0	424.0	418.1	418.1	421.0
455.4	451.5	450.5	448.5	451.5
481.9	480.0	478.0	476.0	479.0
511.3	508.4	507.5	505.5	508.4
539.8	536.8	534.0	535.9	539.8
563.3	563.3	560.5	561.4	564.3
582.0	582.0	582.0	581.0	584.0
598.7	597.7	596.7	596.7	599.7
618.3	615.4	613.5	613.5	617.3
634.0	632.0	631.1	631.1	634.0
642.8	643.8	646.8	647.8	650.7
648.8	652.7	656.6	656.6	660.5
660.5	663.5	663.5	665.5	668.4
675.3	673.3	671.3	674.3	677.2
680.2	679.2	679.2	682.2	685.0
677.2	680.2	682.2	684.1	686.0
678.2	682.2	684.1	685.0	687.0
684.1	686.0	687.0	692.0	693.9
687.0	687.0	687.0	687.0	687.0

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