

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: NEO-RAY

Report Number: P331671-830

Luminaire Tested: **S122RDIP-S485D1080U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331671-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIP-S485D1080U830-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1080 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5717.8 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

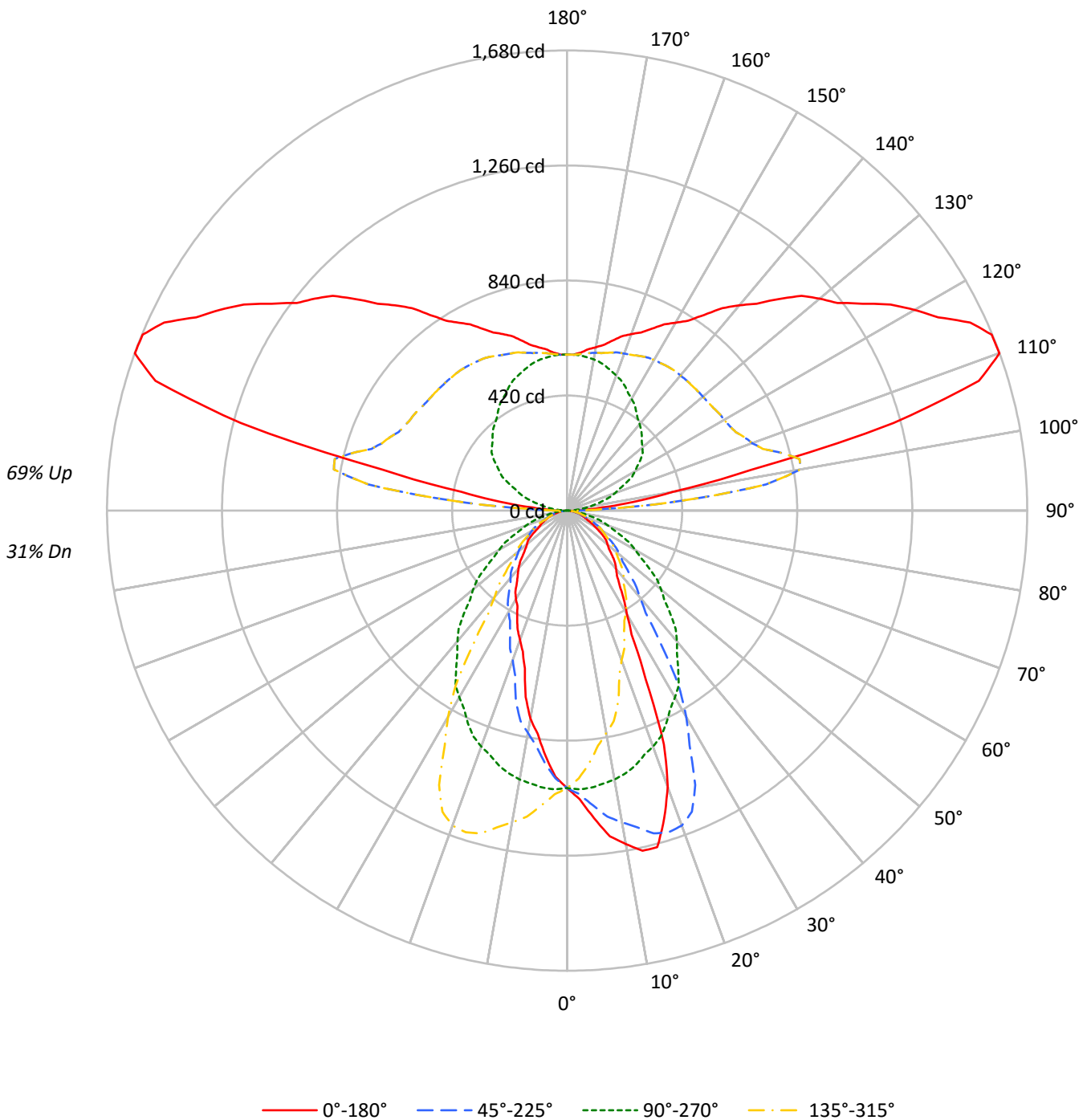
Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	38	38	38	31				
1	94	90	86	83	84	81	78	75	64	62	60	49	48	46	35	34	33	27				
2	86	79	73	69	77	71	67	62	57	54	51	43	41	39	31	30	29	23				
3	79	70	63	58	70	63	57	53	51	47	43	39	36	34	28	26	25	20				
4	72	62	55	49	65	56	50	45	45	41	37	35	32	30	25	24	22	18				
5	66	56	48	42	60	50	44	39	41	36	32	32	28	26	23	21	20	16				
6	61	50	42	37	55	45	39	34	37	32	28	29	25	23	21	19	17	14				
7	57	45	38	32	51	41	35	30	33	29	25	26	23	20	19	17	16	13				
8	53	41	34	29	47	37	31	27	31	26	22	24	21	18	18	16	14	12				
9	49	37	30	26	44	34	28	24	28	23	20	22	19	17	17	15	13	11				
10	46	34	28	23	41	31	25	21	26	21	18	21	17	15	16	13	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16356	16356	16356	16356
5°	18266	16459	14593	16459
10°	20266	16342	12650	16342
15°	21264	16104	9967	16104
20°	18433	15747	8624	15747
25°	12089	15262	7701	15262
30°	8138	14673	6969	14673
35°	6591	13931	6286	13931
40°	5861	13122	5817	13122
45°	5304	12177	5190	12177
50°	4828	11235	4808	11235
55°	4538	10196	4479	10196
60°	3794	9242	3749	9242
65°	3202	8390	3629	8390
70°	2960	7492	3423	7492
75°	2770	6519	3163	6519
80°	2548	5365	2817	5365
85°	2334	4242	2482	4242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	1.7
10°-20°	267.6	4.7
20°-30°	344.8	6.0
30°-40°	327.7	5.7
40°-50°	280.7	4.9
50°-60°	213.8	3.7
60°-70°	135.1	2.4
70°-80°	67.5	1.2
80°-90°	22.7	0.4
90°-100°	227.7	4.0
100°-110°	772.5	13.5
110°-120°	820.7	14.4
120°-130°	675.6	11.8
130°-140°	542.5	9.5
140°-150°	410.0	7.2
150°-160°	288.1	5.0
160°-170°	169.6	3.0
170°-180°	55.2	1.0
0°-30°	708.4	12.4
0°-40°	1036.1	18.1
0°-60°	1530.5	26.8
0°-90°	1755.8	30.7
90°-120°	1820.9	31.8
90°-150°	3449.0	60.3
90°-180°	3962.0	69.3
0°-180°	5717.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1013	1013	1013	1013	1013	
5°	1127	1016	900	1016	1127	111
15°	1272	963	596	963	1272	343
25°	679	857	432	857	679	322
35°	334	707	319	707	334	214
45°	232	533	227	533	232	180
55°	161	362	159	362	161	141
65°	84	220	95	220	84	85
75°	44	104	51	104	44	47
85°	13	23	13	23	13	15
90°	36	1	36	1	36	20
95°	125	38	125	38	125	162
105°	1234	134	1234	134	1234	1194
115°	1624	235	1624	235	1624	1590
125°	1317	328	1317	328	1317	1190
135°	1092	385	1092	385	1092	848
145°	872	440	872	440	872	554
155°	732	500	732	500	732	342
165°	643	545	643	545	643	184
175°	579	568	579	568	579	56
180°	569	569	569	569	569	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	1054.1	1055.0	1055.8	1053.9	1053.9	1052.2	1048.5	1045.7	1037.7	1036.6	1036.6
5°	1127.0	1126.3	1127.8	1123.1	1116.8	1115.4	1108.7	1099.9	1090.8	1080.5	1078.5
7.5°	1199.6	1198.5	1195.7	1194.9	1190.1	1179.4	1168.7	1157.2	1142.0	1127.1	1119.6
10°	1236.1	1247.7	1240.8	1228.4	1230.9	1214.4	1205.5	1190.4	1177.7	1155.6	1150.7
12.5°	1272.1	1276.8	1274.5	1267.5	1264.4	1252.9	1241.0	1227.9	1204.5	1184.6	1167.2
15°	1272.1	1278.7	1280.5	1278.4	1280.2	1279.4	1273.1	1262.2	1241.8	1219.9	1201.0
17.5°	1178.2	1182.8	1194.3	1202.1	1212.0	1232.8	1243.1	1247.2	1244.1	1231.6	1218.2
20°	1072.8	1065.1	1097.5	1114.0	1128.1	1163.3	1193.5	1205.1	1223.8	1223.5	1219.9
22.5°	923.6	925.4	956.1	975.7	1016.9	1052.1	1086.6	1130.3	1166.4	1190.2	1204.2
25°	678.6	692.0	722.6	749.3	795.1	860.6	920.1	989.1	1054.1	1105.6	1154.5
27.5°	509.6	510.7	534.9	559.7	586.8	640.5	715.4	797.8	890.6	967.1	1055.3
30°	436.5	434.3	444.6	459.7	483.0	524.4	580.8	661.8	754.3	869.8	972.5
32.5°	384.7	384.7	392.5	403.7	422.9	450.9	489.6	555.3	642.8	756.3	876.8
35°	334.4	334.0	339.7	347.8	355.8	373.8	400.2	434.7	494.9	600.9	724.1
37.5°	298.3	299.9	302.7	307.7	316.6	326.6	342.5	365.6	408.5	471.2	574.7
40°	278.1	278.8	282.7	286.9	292.2	299.9	312.9	331.6	362.9	412.8	488.5
42.5°	259.5	260.1	263.0	266.8	271.0	278.8	289.5	305.7	331.1	370.0	432.5
45°	232.3	232.3	234.8	236.5	241.1	248.2	256.9	270.3	287.9	316.8	358.4
47.5°	206.8	206.9	208.5	211.5	214.4	219.9	228.6	239.5	252.3	274.7	310.1
50°	192.2	192.6	193.6	196.0	197.8	202.7	209.4	219.0	232.3	249.6	279.1
52.5°	180.3	180.1	181.4	182.6	183.7	187.3	192.3	200.7	212.6	227.6	252.1
55°	161.2	159.8	161.9	163.6	164.8	166.2	168.9	174.3	184.5	197.1	215.4
57.5°	137.2	136.7	138.2	139.8	143.1	146.9	149.3	152.7	158.0	167.0	185.2
60°	117.5	117.5	120.7	121.8	125.6	130.5	135.5	138.4	143.6	149.6	163.0
62.5°	100.1	100.4	101.9	102.9	105.1	111.1	118.1	124.2	129.2	135.0	143.8
65°	83.8	84.5	84.5	85.2	86.6	88.0	90.8	95.8	104.5	112.6	119.3
67.5°	71.1	71.4	71.5	72.2	72.6	74.1	75.2	77.5	79.5	87.2	95.5
70°	62.7	63.7	63.3	64.1	64.4	65.1	66.5	67.6	70.8	72.5	77.5
72.5°	54.8	55.5	55.5	55.9	56.8	56.9	58.1	59.1	61.2	62.7	65.3
75°	44.4	44.0	44.4	45.1	45.4	45.7	45.7	47.1	48.3	49.7	51.4
77.5°	34.2	34.6	34.5	34.6	34.6	35.3	35.2	35.8	36.9	37.6	38.5
80°	27.4	27.8	27.4	27.8	28.2	28.5	28.2	28.5	29.6	30.3	30.3
82.5°	21.3	21.3	21.6	21.6	21.7	21.8	22.2	22.3	23.1	22.9	23.2
85°	12.6	12.3	12.3	12.3	12.6	13.0	12.6	12.6	13.0	13.0	13.0
87.5°	11.7	12.0	12.0	12.0	12.0	11.8	11.3	12.1	12.0	12.5	12.0
90°	36.1	36.1	36.1	36.1	36.1	35.1	32.9	35.1	36.1	37.2	36.1
92.5°	60.7	62.4	61.5	65.0	65.9	72.7	81.9	95.5	120.3	142.3	140.3
95°	124.8	123.8	127.1	135.7	150.0	174.1	220.1	286.9	375.6	429.2	379.9
97.5°	245.7	254.9	270.9	297.8	350.2	429.2	547.7	669.4	768.6	732.7	551.9
100°	392.0	411.7	443.5	490.5	581.4	713.9	863.9	999.7	1022.7	865.0	595.6
102.5°	689.8	716.5	756.2	836.5	935.3	1075.6	1185.3	1216.1	1117.3	869.4	579.0
105°	1234.0	1249.3	1296.4	1364.2	1432.2	1468.3	1454.1	1330.3	1102.6	811.3	546.4
107.5°	1576.2	1596.6	1606.0	1609.8	1601.2	1548.2	1434.4	1248.0	1006.4	749.1	530.2
110°	1679.6	1680.7	1670.8	1650.0	1603.0	1513.2	1373.0	1177.0	946.0	719.3	526.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1677.8	1672.0	1653.3	1618.5	1553.0	1450.1	1300.3	1112.2	904.0	700.1	527.5
115°	1623.8	1613.9	1585.5	1535.1	1457.4	1344.5	1201.2	1032.6	851.9	678.8	532.2
117.5°	1527.2	1518.9	1488.8	1435.7	1356.4	1250.7	1120.6	972.5	819.0	668.5	540.0
120°	1465.0	1454.1	1422.3	1370.8	1294.2	1194.6	1078.5	942.7	801.4	662.4	545.3
122.5°	1400.1	1391.0	1362.7	1312.1	1243.4	1153.4	1043.5	919.1	786.6	658.9	551.4
125°	1317.2	1308.4	1281.1	1239.4	1175.9	1093.8	997.5	884.7	765.3	652.6	560.6
127.5°	1244.5	1237.5	1213.8	1174.9	1119.5	1043.7	952.8	850.7	745.6	648.8	570.0
130°	1203.3	1194.6	1172.7	1135.5	1081.8	1009.6	923.0	828.9	732.5	647.1	577.0
132.5°	1160.4	1152.5	1132.4	1095.1	1042.4	974.5	895.0	807.9	722.0	646.2	584.0
135°	1091.7	1087.2	1067.5	1031.4	984.3	923.0	850.7	778.4	707.3	644.9	592.4
137.5°	1024.2	1017.7	1000.3	969.2	926.3	872.9	815.5	755.1	697.0	644.7	599.8
140°	977.8	971.2	954.8	926.3	891.3	843.1	792.8	740.2	690.9	643.9	603.3
142.5°	931.3	930.0	915.4	889.5	856.2	816.0	772.6	727.9	684.8	643.9	606.0
145°	871.6	868.3	857.3	838.7	812.5	780.7	746.8	710.6	676.7	641.6	608.8
147.5°	821.4	819.4	812.0	797.1	775.4	752.2	725.8	697.3	668.4	637.7	609.6
150°	791.6	790.5	784.0	770.8	754.4	734.7	711.7	687.6	661.3	635.1	608.8
152.5°	766.2	766.0	761.2	749.8	736.9	719.8	700.3	678.0	655.2	630.7	607.0
155°	732.5	734.7	730.3	722.6	710.6	698.5	682.1	664.6	643.9	623.0	604.4
157.5°	703.8	703.8	701.8	695.5	686.9	677.5	663.7	649.0	633.1	615.1	599.4
160°	685.4	685.4	684.3	678.8	671.2	663.5	651.5	639.4	625.2	609.9	596.7
162.5°	667.9	668.7	667.7	663.9	656.3	650.4	640.1	629.8	618.2	605.5	594.1
165°	642.7	643.9	643.9	639.4	635.1	630.7	623.0	615.4	606.6	596.7	589.1
167.5°	619.5	620.9	621.0	618.6	616.7	612.7	607.5	601.5	595.2	589.1	584.0
170°	605.5	607.7	608.8	605.5	604.4	602.2	597.9	594.6	589.1	584.7	581.4
172.5°	594.1	595.4	596.5	595.0	593.9	592.6	589.1	586.6	583.0	579.5	577.9
175°	579.2	581.4	582.5	581.4	581.4	580.3	579.2	578.2	574.9	573.7	572.7
177.5°	570.2	572.0	572.9	572.9	572.9	572.9	572.0	572.0	570.2	569.4	570.2
180°	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	1037.2	1035.0	1033.0	1027.9	1025.4	1019.7	1018.9	1018.6	1011.3	1004.3	1002.3
5°	1072.8	1067.2	1058.8	1048.9	1038.7	1028.1	1021.1	1015.5	1001.4	988.0	980.2
7.5°	1108.7	1096.6	1082.0	1063.4	1047.8	1030.4	1017.5	1005.8	985.8	966.7	953.8
10°	1135.5	1115.8	1096.5	1070.7	1050.7	1031.0	1012.7	996.8	974.3	949.0	930.9
12.5°	1152.1	1130.4	1103.7	1078.6	1052.6	1027.6	1003.1	982.7	956.3	930.1	908.7
15°	1174.6	1151.3	1119.0	1083.1	1049.6	1016.9	988.7	963.4	928.9	897.6	871.5
17.5°	1193.0	1160.9	1126.1	1084.7	1045.9	1004.4	968.1	935.7	897.3	859.5	828.9
20°	1198.8	1167.2	1127.0	1085.5	1039.7	990.8	951.8	916.5	875.3	834.2	799.0
22.5°	1195.1	1170.5	1125.9	1076.2	1029.4	978.2	934.1	893.2	847.5	805.5	764.7
25°	1170.4	1161.9	1119.6	1065.5	1011.9	952.4	901.4	856.7	804.6	759.6	715.2
27.5°	1112.4	1130.7	1104.5	1046.7	987.2	923.4	866.1	815.2	761.1	710.4	666.2
30°	1056.7	1098.5	1087.2	1033.8	967.2	904.6	840.2	787.0	729.3	677.2	633.6
32.5°	980.3	1049.5	1060.5	1015.8	947.0	878.1	810.6	757.7	697.5	642.5	600.0
35°	858.8	962.3	1009.8	981.3	912.3	838.1	768.4	706.8	646.2	592.0	549.8
37.5°	713.9	854.8	934.1	936.0	872.7	795.5	719.6	658.5	596.4	543.3	497.6
40°	619.8	772.6	875.7	898.6	845.1	761.7	684.9	622.6	562.1	510.0	457.6
42.5°	535.4	687.6	814.4	854.1	811.6	728.8	651.8	586.6	527.7	478.4	424.9
45°	432.9	566.0	705.7	776.8	753.3	676.5	595.2	533.3	478.0	435.4	384.0
47.5°	365.2	459.0	594.2	690.4	689.9	619.9	540.0	480.6	429.3	389.5	347.8
50°	326.6	408.3	522.7	631.8	640.9	582.2	506.1	447.3	399.5	357.6	324.1
52.5°	292.0	359.3	462.1	566.8	592.8	541.9	468.2	413.9	367.4	328.9	300.2
55°	246.8	298.8	377.0	474.9	514.3	478.3	412.8	362.2	324.5	292.2	267.5
57.5°	208.7	247.8	310.5	389.3	435.2	412.6	358.6	317.4	285.2	255.9	236.5
60°	184.8	216.8	269.9	335.8	386.4	370.6	324.5	286.2	258.7	233.4	215.1
62.5°	162.3	189.8	235.4	288.8	335.3	328.7	291.1	258.8	234.8	211.7	196.2
65°	130.5	150.6	186.2	228.1	265.4	268.5	241.5	219.6	198.1	179.8	166.2
67.5°	104.0	117.1	142.1	177.4	205.4	215.4	198.8	182.1	165.0	150.9	139.0
70°	87.7	98.2	116.5	145.1	170.7	181.3	171.7	158.7	143.9	132.3	122.2
72.5°	71.1	81.3	94.8	115.7	137.8	149.2	145.9	136.5	124.5	114.9	105.3
75°	53.5	56.6	65.8	79.9	97.2	107.0	109.4	104.5	95.0	87.7	82.0
77.5°	39.6	41.5	45.8	53.3	64.5	73.2	76.9	76.3	69.7	65.5	60.2
80°	31.7	32.7	34.9	38.0	46.5	55.2	57.7	57.7	53.2	51.4	46.1
82.5°	24.0	24.9	26.1	27.9	31.9	39.5	42.2	42.8	39.9	37.6	33.5
85°	13.8	13.4	14.0	15.2	15.8	17.9	22.1	22.9	22.1	19.3	18.3
87.5°	10.7	9.4	8.4	7.4	7.3	7.1	7.6	8.4	7.9	7.9	7.8
90°	29.6	21.9	16.4	13.1	10.9	8.8	4.3	1.1	4.3	8.8	10.9
92.5°	109.2	74.5	49.7	39.4	32.0	27.1	19.2	13.4	19.2	27.1	32.0
95°	252.9	157.7	107.3	81.1	63.5	53.6	42.7	38.4	42.7	53.6	63.5
97.5°	340.7	208.0	144.8	115.0	94.8	79.9	68.3	62.4	68.3	79.9	94.8
100°	359.1	225.6	167.5	136.9	115.0	97.5	87.6	84.3	87.6	97.5	115.0
102.5°	360.1	241.3	187.7	157.0	134.2	116.7	106.9	104.4	106.9	116.7	134.2
105°	365.7	268.2	216.8	186.2	162.0	145.6	138.0	133.6	138.0	145.6	162.0
107.5°	380.8	295.9	245.9	215.1	191.1	176.1	168.6	165.1	168.6	176.1	191.1
110°	393.0	314.2	266.1	234.3	211.3	197.1	190.5	186.2	190.5	197.1	211.3



TEST NUMBER: P331671-830

CATALOG NUMBER: S122RDIP-S485D1080U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	406.2	331.8	285.3	252.7	230.5	217.3	209.8	205.4	209.8	217.3	230.5
115°	425.9	359.1	312.1	282.5	260.6	247.4	240.9	235.4	240.9	247.4	260.6
117.5°	447.0	384.3	340.7	310.1	289.1	277.5	270.9	266.6	270.9	277.5	289.1
120°	461.0	401.8	359.1	328.5	306.6	296.7	290.1	285.8	290.1	296.7	306.6
122.5°	473.3	418.5	378.4	346.9	325.0	314.2	307.6	304.2	307.6	314.2	325.0
125°	492.8	443.5	404.1	373.3	351.5	338.4	331.8	328.5	331.8	338.4	351.5
127.5°	510.9	466.7	428.3	396.8	375.8	361.4	352.1	347.7	352.1	361.4	375.8
130°	522.3	480.7	442.3	411.7	389.8	374.5	363.5	359.1	363.5	374.5	389.8
132.5°	533.7	492.9	456.4	425.7	402.9	386.7	374.9	369.7	374.9	386.7	402.9
135°	548.6	510.2	475.2	444.5	419.3	402.9	389.8	385.4	389.8	402.9	419.3
137.5°	560.0	524.2	489.7	461.2	436.2	418.7	405.6	400.3	405.6	418.7	436.2
140°	566.1	532.2	499.3	470.8	446.8	429.2	416.0	411.7	416.0	429.2	446.8
142.5°	571.4	538.3	506.3	479.6	456.4	438.8	426.6	423.1	426.6	438.8	456.4
145°	578.2	547.4	517.9	493.8	471.9	455.5	444.5	440.2	444.5	455.5	471.9
147.5°	581.8	554.9	527.1	505.7	487.5	472.3	461.8	458.5	461.8	472.3	487.5
150°	583.6	558.5	533.2	513.5	497.1	482.9	474.1	470.8	474.1	482.9	497.1
152.5°	584.5	561.9	539.3	521.4	505.9	493.3	484.7	483.1	484.7	493.3	505.9
155°	585.8	567.1	548.6	532.2	520.1	508.0	501.4	500.4	501.4	508.0	520.1
157.5°	585.8	570.9	555.2	541.3	531.7	521.2	515.9	514.8	515.9	521.2	531.7
160°	585.8	572.7	559.5	547.4	538.7	529.9	525.6	524.4	525.6	529.9	538.7
162.5°	584.9	573.5	562.1	552.7	544.8	537.8	533.5	534.1	533.5	537.8	544.8
165°	582.5	574.9	565.0	558.5	552.9	546.4	544.2	545.3	544.2	546.4	552.9
167.5°	581.0	574.6	567.4	563.3	559.3	555.2	553.2	554.5	553.2	555.2	559.3
170°	579.2	573.7	568.3	565.0	562.8	559.5	558.5	560.6	558.5	559.5	562.8
172.5°	576.6	572.9	569.1	566.8	565.4	562.1	562.8	564.1	562.8	562.1	565.4
175°	573.7	571.6	569.4	568.3	568.3	566.1	567.1	568.3	567.1	566.1	568.3
177.5°	572.0	570.2	569.4	569.4	569.4	567.6	568.4	570.2	568.4	567.6	569.4
180°	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4



TEST NUMBER: P331671-830

CATALOG NUMBER: S122RDIP-S485D1080U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	998.6	996.6	993.0	987.4	984.0	978.1	974.1	976.4	976.9	976.4	975.8
5°	971.9	964.4	954.2	944.3	935.2	925.4	919.7	917.3	912.3	909.6	908.1
7.5°	939.3	926.6	912.2	895.0	880.4	865.2	857.3	853.5	843.4	837.9	833.1
10°	915.1	895.0	880.6	858.1	844.4	824.3	810.6	811.0	797.2	789.5	783.8
12.5°	888.4	866.4	842.4	822.1	803.0	786.9	770.3	763.6	749.0	741.6	726.4
15°	844.0	818.3	793.1	765.5	746.2	721.2	697.3	668.1	644.5	624.1	618.4
17.5°	795.6	763.8	738.4	706.2	673.0	630.9	603.2	586.3	572.0	561.3	553.3
20°	762.4	730.0	702.9	654.3	609.6	581.1	560.7	547.7	532.9	521.3	514.9
22.5°	727.5	693.7	656.8	602.5	567.7	544.8	526.6	511.6	501.6	492.6	486.8
25°	677.9	640.9	580.0	542.7	514.6	490.7	478.0	468.8	458.3	445.9	440.4
27.5°	625.6	566.8	523.0	495.3	468.4	452.9	441.5	427.8	418.4	412.8	407.0
30°	586.4	527.6	493.5	463.2	444.2	427.0	413.6	405.9	396.7	387.2	383.3
32.5°	542.7	495.8	463.1	437.9	418.6	403.9	393.3	380.8	374.2	368.3	360.2
35°	488.5	453.0	423.1	402.7	384.4	372.4	360.1	352.7	340.7	335.8	332.6
37.5°	442.6	411.8	389.5	368.0	353.5	340.3	332.7	320.9	315.8	308.9	302.2
40°	416.7	386.4	365.0	347.4	331.2	321.3	311.9	302.4	294.6	291.4	283.3
42.5°	390.3	365.6	344.1	324.9	314.1	303.6	291.6	284.6	276.5	271.5	266.5
45°	353.7	332.0	313.6	297.7	285.8	274.9	267.1	255.5	251.0	240.7	236.5
47.5°	321.6	301.3	283.9	268.8	257.1	250.1	238.7	229.6	222.3	216.0	210.7
50°	298.8	281.9	265.0	251.7	241.1	230.9	219.3	214.7	203.4	200.3	197.1
52.5°	278.0	261.9	246.5	233.4	222.8	212.9	202.6	196.7	189.1	185.9	183.6
55°	248.8	233.4	218.6	207.0	196.4	186.2	179.8	172.5	168.9	166.5	163.6
57.5°	219.5	205.7	194.3	182.6	171.9	163.8	156.5	152.0	148.4	145.2	141.8
60°	201.0	187.6	177.4	166.5	155.6	148.9	143.3	138.0	133.7	128.8	127.4
62.5°	181.3	169.6	160.2	149.6	140.1	133.9	128.7	123.7	118.6	111.4	109.4
65°	154.2	145.1	135.2	126.4	117.9	112.0	104.2	98.6	96.4	95.8	95.4
67.5°	129.7	121.0	112.5	103.6	95.9	90.3	86.3	85.5	84.1	83.6	82.7
70°	113.3	105.3	96.8	88.3	81.0	79.9	78.5	77.1	75.3	74.6	73.9
72.5°	98.7	90.3	81.9	75.1	71.9	70.6	69.2	67.8	66.6	65.9	65.5
75°	75.7	68.0	62.3	59.9	58.1	57.0	55.0	53.8	53.2	52.1	51.7
77.5°	54.5	50.1	47.5	46.0	44.1	43.0	41.8	40.7	40.0	39.8	39.2
80°	41.6	39.4	37.7	35.5	34.9	33.5	33.1	32.0	32.4	31.3	31.3
82.5°	32.2	29.6	28.1	27.1	26.4	25.3	24.9	24.4	24.5	23.8	23.8
85°	16.6	15.8	15.2	14.4	14.4	13.4	13.8	13.4	13.4	12.6	12.3
87.5°	8.0	8.4	8.9	10.5	11.7	11.7	11.4	10.9	10.6	10.9	10.9
90°	13.1	16.4	21.9	29.6	36.1	37.2	36.1	35.1	32.9	35.1	36.1
92.5°	39.4	49.7	74.5	109.2	140.3	142.3	120.3	95.5	81.9	72.7	65.9
95°	81.1	107.3	157.7	252.9	379.9	429.2	375.6	286.9	220.1	174.1	150.0
97.5°	115.0	144.8	208.0	340.7	551.9	732.7	768.6	669.4	547.7	429.2	350.2
100°	136.9	167.5	225.6	359.1	595.6	865.0	1022.7	999.7	863.9	713.9	581.4
102.5°	157.0	187.7	241.3	360.1	579.0	869.4	1117.3	1216.1	1185.3	1075.6	935.3
105°	186.2	216.8	268.2	365.7	546.4	811.3	1102.6	1330.3	1454.1	1468.3	1432.2
107.5°	215.1	245.9	295.9	380.8	530.2	749.1	1006.4	1248.0	1434.4	1548.2	1601.2
110°	234.3	266.1	314.2	393.0	526.7	719.3	946.0	1177.0	1373.0	1513.2	1603.0



TEST NUMBER: P331671-830

CATALOG NUMBER: S122RDIP-S485D1080U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	252.7	285.3	331.8	406.2	527.5	700.1	904.0	1112.2	1300.3	1450.1	1553.0
115°	282.5	312.1	359.1	425.9	532.2	678.8	851.9	1032.6	1201.2	1344.5	1457.4
117.5°	310.1	340.7	384.3	447.0	540.0	668.5	819.0	972.5	1120.6	1250.7	1356.4
120°	328.5	359.1	401.8	461.0	545.3	662.4	801.4	942.7	1078.5	1194.6	1294.2
122.5°	346.9	378.4	418.5	473.3	551.4	658.9	786.6	919.1	1043.5	1153.4	1243.4
125°	373.3	404.1	443.5	492.8	560.6	652.6	765.3	884.7	997.5	1093.8	1175.9
127.5°	396.8	428.3	466.7	510.9	570.0	648.8	745.6	850.7	952.8	1043.7	1119.5
130°	411.7	442.3	480.7	522.3	577.0	647.1	732.5	828.9	923.0	1009.6	1081.8
132.5°	425.7	456.4	492.9	533.7	584.0	646.2	722.0	807.9	895.0	974.5	1042.4
135°	444.5	475.2	510.2	548.6	592.4	644.9	707.3	778.4	850.7	923.0	984.3
137.5°	461.2	489.7	524.2	560.0	599.8	644.7	697.0	755.1	815.5	872.9	926.3
140°	470.8	499.3	532.2	566.1	603.3	643.9	690.9	740.2	792.8	843.1	891.3
142.5°	479.6	506.3	538.3	571.4	606.0	643.9	684.8	727.9	772.6	816.0	856.2
145°	493.8	517.9	547.4	578.2	608.8	641.6	676.7	710.6	746.8	780.7	812.5
147.5°	505.7	527.1	554.9	581.8	609.6	637.7	668.4	697.3	725.8	752.2	775.4
150°	513.5	533.2	558.5	583.6	608.8	635.1	661.3	687.6	711.7	734.7	754.4
152.5°	521.4	539.3	561.9	584.5	607.0	630.7	655.2	678.0	700.3	719.8	736.9
155°	532.2	548.6	567.1	585.8	604.4	623.0	643.9	664.6	682.1	698.5	710.6
157.5°	541.3	555.2	570.9	585.8	599.4	615.1	633.1	649.0	663.7	677.5	686.9
160°	547.4	559.5	572.7	585.8	596.7	609.9	625.2	639.4	651.5	663.5	671.2
162.5°	552.7	562.1	573.5	584.9	594.1	605.5	618.2	629.8	640.1	650.4	656.3
165°	558.5	565.0	574.9	582.5	589.1	596.7	606.6	615.4	623.0	630.7	635.1
167.5°	563.3	567.4	574.6	581.0	584.0	589.1	595.2	601.5	607.5	612.7	616.7
170°	565.0	568.3	573.7	579.2	581.4	584.7	589.1	594.6	597.9	602.2	604.4
172.5°	566.8	569.1	572.9	576.6	577.9	579.5	583.0	586.6	589.1	592.6	593.9
175°	568.3	569.4	571.6	573.7	572.7	573.7	574.9	578.2	579.2	580.3	581.4
177.5°	569.4	569.4	570.2	572.0	570.2	569.4	570.2	572.0	572.0	572.9	572.9
180°	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4



TEST NUMBER: P331671-830

CATALOG NUMBER: S122RDIP-S485D1080U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	972.7	973.3	972.4	973.0	972.4	973.3	972.7	975.8	976.4	976.9	976.4
5°	906.3	902.1	901.4	900.4	901.4	902.1	906.3	908.1	909.6	912.3	917.3
7.5°	827.1	826.4	824.7	822.2	824.7	826.4	827.1	833.1	837.9	843.4	853.5
10°	776.1	774.4	774.0	771.6	774.0	774.4	776.1	783.8	789.5	797.2	811.0
12.5°	716.4	705.1	703.9	697.8	703.9	705.1	716.4	726.4	741.6	749.0	763.6
15°	610.0	607.8	600.9	596.3	600.9	607.8	610.0	618.4	624.1	644.5	668.1
17.5°	549.1	542.2	540.1	539.1	540.1	542.2	549.1	553.3	561.3	572.0	586.3
20°	510.0	503.7	502.7	501.9	502.7	503.7	510.0	514.9	521.3	532.9	547.7
22.5°	483.0	476.4	473.6	471.6	473.6	476.4	483.0	486.8	492.6	501.6	511.6
25°	436.8	434.3	432.9	432.3	432.9	434.3	436.8	440.4	445.9	458.3	468.8
27.5°	400.7	395.3	394.2	392.4	394.2	395.3	400.7	407.0	412.8	418.4	427.8
30°	380.1	378.3	375.9	373.8	375.9	378.3	380.1	383.3	387.2	396.7	405.9
32.5°	355.9	354.5	352.2	351.3	352.2	354.5	355.9	360.2	368.3	374.2	380.8
35°	329.1	324.1	322.1	318.9	322.1	324.1	329.1	332.6	335.8	340.7	352.7
37.5°	300.8	298.1	295.2	296.2	295.2	298.1	300.8	302.2	308.9	315.8	320.9
40°	278.8	277.0	276.3	276.0	276.3	277.0	278.8	283.3	291.4	294.6	302.4
42.5°	261.3	256.5	254.6	254.6	254.6	256.5	261.3	266.5	271.5	276.5	284.6
45°	234.8	230.2	227.1	227.3	227.1	230.2	234.8	236.5	240.7	251.0	255.5
47.5°	207.6	207.5	205.5	206.1	205.5	207.5	207.6	210.7	216.0	222.3	229.6
50°	194.6	192.6	191.1	191.4	191.1	192.6	194.6	197.1	200.3	203.4	214.7
52.5°	182.3	180.4	179.3	180.8	179.3	180.4	182.3	183.6	185.9	189.1	196.7
55°	161.9	159.8	159.5	159.1	159.5	159.8	161.9	163.6	166.5	168.9	172.5
57.5°	139.2	137.8	135.6	134.8	135.6	137.8	139.2	141.8	145.2	148.4	152.0
60°	122.8	120.0	116.5	116.1	116.5	120.0	122.8	127.4	128.8	133.7	138.0
62.5°	107.9	107.4	106.7	106.6	106.7	107.4	107.9	109.4	111.4	118.6	123.7
65°	94.7	94.3	94.7	95.0	94.7	94.3	94.7	95.4	95.8	96.4	98.6
67.5°	82.5	81.9	81.2	81.5	81.2	81.9	82.5	82.7	83.6	84.1	85.5
70°	73.2	72.9	72.5	72.5	72.5	72.9	73.2	73.9	74.6	75.3	77.1
72.5°	64.2	64.1	63.8	63.5	63.8	64.1	64.2	65.5	65.9	66.6	67.8
75°	51.4	50.7	50.7	50.7	50.7	50.7	51.4	51.7	52.1	53.2	53.8
77.5°	39.1	38.8	38.5	38.2	38.5	38.8	39.1	39.2	39.8	40.0	40.7
80°	31.0	30.6	30.3	30.3	30.3	30.6	31.0	31.3	31.3	32.4	32.0
82.5°	23.7	23.3	23.2	22.9	23.2	23.3	23.7	23.8	23.8	24.5	24.4
85°	12.6	13.0	12.6	13.4	12.6	13.0	12.6	12.3	12.6	13.4	13.4
87.5°	10.9	10.7	10.9	10.7	10.9	10.7	10.9	10.9	10.9	10.6	10.9
90°	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	35.1	32.9	35.1
92.5°	65.0	61.5	62.4	60.7	62.4	61.5	65.0	65.9	72.7	81.9	95.5
95°	135.7	127.1	123.8	124.8	123.8	127.1	135.7	150.0	174.1	220.1	286.9
97.5°	297.8	270.9	254.9	245.7	254.9	270.9	297.8	350.2	429.2	547.7	669.4
100°	490.5	443.5	411.7	392.0	411.7	443.5	490.5	581.4	713.9	863.9	999.7
102.5°	836.5	756.2	716.5	689.8	716.5	756.2	836.5	935.3	1075.6	1185.3	1216.1
105°	1364.2	1296.4	1249.3	1234.0	1249.3	1296.4	1364.2	1432.2	1468.3	1454.1	1330.3
107.5°	1609.8	1606.0	1596.6	1576.2	1596.6	1606.0	1609.8	1601.2	1548.2	1434.4	1248.0
110°	1650.0	1670.8	1680.7	1679.6	1680.7	1670.8	1650.0	1603.0	1513.2	1373.0	1177.0



TEST NUMBER: P331671-830

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1618.5	1653.3	1672.0	1677.8	1672.0	1653.3	1618.5	1553.0	1450.1	1300.3	1112.2
115°	1535.1	1585.5	1613.9	1623.8	1613.9	1585.5	1535.1	1457.4	1344.5	1201.2	1032.6
117.5°	1435.7	1488.8	1518.9	1527.2	1518.9	1488.8	1435.7	1356.4	1250.7	1120.6	972.5
120°	1370.8	1422.3	1454.1	1465.0	1454.1	1422.3	1370.8	1294.2	1194.6	1078.5	942.7
122.5°	1312.1	1362.7	1391.0	1400.1	1391.0	1362.7	1312.1	1243.4	1153.4	1043.5	919.1
125°	1239.4	1281.1	1308.4	1317.2	1308.4	1281.1	1239.4	1175.9	1093.8	997.5	884.7
127.5°	1174.9	1213.8	1237.5	1244.5	1237.5	1213.8	1174.9	1119.5	1043.7	952.8	850.7
130°	1135.5	1172.7	1194.6	1203.3	1194.6	1172.7	1135.5	1081.8	1009.6	923.0	828.9
132.5°	1095.1	1132.4	1152.5	1160.4	1152.5	1132.4	1095.1	1042.4	974.5	895.0	807.9
135°	1031.4	1067.5	1087.2	1091.7	1087.2	1067.5	1031.4	984.3	923.0	850.7	778.4
137.5°	969.2	1000.3	1017.7	1024.2	1017.7	1000.3	969.2	926.3	872.9	815.5	755.1
140°	926.3	954.8	971.2	977.8	971.2	954.8	926.3	891.3	843.1	792.8	740.2
142.5°	889.5	915.4	930.0	931.3	930.0	915.4	889.5	856.2	816.0	772.6	727.9
145°	838.7	857.3	868.3	871.6	868.3	857.3	838.7	812.5	780.7	746.8	710.6
147.5°	797.1	812.0	819.4	821.4	819.4	812.0	797.1	775.4	752.2	725.8	697.3
150°	770.8	784.0	790.5	791.6	790.5	784.0	770.8	754.4	734.7	711.7	687.6
152.5°	749.8	761.2	766.0	766.2	766.0	761.2	749.8	736.9	719.8	700.3	678.0
155°	722.6	730.3	734.7	732.5	734.7	730.3	722.6	710.6	698.5	682.1	664.6
157.5°	695.5	701.8	703.8	703.8	703.8	701.8	695.5	686.9	677.5	663.7	649.0
160°	678.8	684.3	685.4	685.4	685.4	684.3	678.8	671.2	663.5	651.5	639.4
162.5°	663.9	667.7	668.7	667.9	668.7	667.7	663.9	656.3	650.4	640.1	629.8
165°	639.4	643.9	643.9	642.7	643.9	643.9	639.4	635.1	630.7	623.0	615.4
167.5°	618.6	621.0	620.9	619.5	620.9	621.0	618.6	616.7	612.7	607.5	601.5
170°	605.5	608.8	607.7	605.5	607.7	608.8	605.5	604.4	602.2	597.9	594.6
172.5°	595.0	596.5	595.4	594.1	595.4	596.5	595.0	593.9	592.6	589.1	586.6
175°	581.4	582.5	581.4	579.2	581.4	582.5	581.4	581.4	580.3	579.2	578.2
177.5°	572.9	572.9	572.0	570.2	572.0	572.9	572.9	572.9	572.9	572.0	572.0
180°	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	974.1	978.1	984.0	987.4	993.0	996.6	998.6	1002.3	1004.3	1011.3	1018.6
5°	919.7	925.4	935.2	944.3	954.2	964.4	971.9	980.2	988.0	1001.4	1015.5
7.5°	857.3	865.2	880.4	895.0	912.2	926.6	939.3	953.8	966.7	985.8	1005.8
10°	810.6	824.3	844.4	858.1	880.6	895.0	915.1	930.9	949.0	974.3	996.8
12.5°	770.3	786.9	803.0	822.1	842.4	866.4	888.4	908.7	930.1	956.3	982.7
15°	697.3	721.2	746.2	765.5	793.1	818.3	844.0	871.5	897.6	928.9	963.4
17.5°	603.2	630.9	673.0	706.2	738.4	763.8	795.6	828.9	859.5	897.3	935.7
20°	560.7	581.1	609.6	654.3	702.9	730.0	762.4	799.0	834.2	875.3	916.5
22.5°	526.6	544.8	567.7	602.5	656.8	693.7	727.5	764.7	805.5	847.5	893.2
25°	478.0	490.7	514.6	542.7	580.0	640.9	677.9	715.2	759.6	804.6	856.7
27.5°	441.5	452.9	468.4	495.3	523.0	566.8	625.6	666.2	710.4	761.1	815.2
30°	413.6	427.0	444.2	463.2	493.5	527.6	586.4	633.6	677.2	729.3	787.0
32.5°	393.3	403.9	418.6	437.9	463.1	495.8	542.7	600.0	642.5	697.5	757.7
35°	360.1	372.4	384.4	402.7	423.1	453.0	488.5	549.8	592.0	646.2	706.8
37.5°	332.7	340.3	353.5	368.0	389.5	411.8	442.6	497.6	543.3	596.4	658.5
40°	311.9	321.3	331.2	347.4	365.0	386.4	416.7	457.6	510.0	562.1	622.6
42.5°	291.6	303.6	314.1	324.9	344.1	365.6	390.3	424.9	478.4	527.7	586.6
45°	267.1	274.9	285.8	297.7	313.6	332.0	353.7	384.0	435.4	478.0	533.3
47.5°	238.7	250.1	257.1	268.8	283.9	301.3	321.6	347.8	389.5	429.3	480.6
50°	219.3	230.9	241.1	251.7	265.0	281.9	298.8	324.1	357.6	399.5	447.3
52.5°	202.6	212.9	222.8	233.4	246.5	261.9	278.0	300.2	328.9	367.4	413.9
55°	179.8	186.2	196.4	207.0	218.6	233.4	248.8	267.5	292.2	324.5	362.2
57.5°	156.5	163.8	171.9	182.6	194.3	205.7	219.5	236.5	255.9	285.2	317.4
60°	143.3	148.9	155.6	166.5	177.4	187.6	201.0	215.1	233.4	258.7	286.2
62.5°	128.7	133.9	140.1	149.6	160.2	169.6	181.3	196.2	211.7	234.8	258.8
65°	104.2	112.0	117.9	126.4	135.2	145.1	154.2	166.2	179.8	198.1	219.6
67.5°	86.3	90.3	95.9	103.6	112.5	121.0	129.7	139.0	150.9	165.0	182.1
70°	78.5	79.9	81.0	88.3	96.8	105.3	113.3	122.2	132.3	143.9	158.7
72.5°	69.2	70.6	71.9	75.1	81.9	90.3	98.7	105.3	114.9	124.5	136.5
75°	55.0	57.0	58.1	59.9	62.3	68.0	75.7	82.0	87.7	95.0	104.5
77.5°	41.8	43.0	44.1	46.0	47.5	50.1	54.5	60.2	65.5	69.7	76.3
80°	33.1	33.5	34.9	35.5	37.7	39.4	41.6	46.1	51.4	53.2	57.7
82.5°	24.9	25.3	26.4	27.1	28.1	29.6	32.2	33.5	37.6	39.9	42.8
85°	13.8	13.4	14.4	14.4	15.2	15.8	16.6	18.3	19.3	22.1	22.9
87.5°	11.4	11.7	11.7	10.5	8.9	8.4	8.0	7.8	7.9	7.9	8.4
90°	36.1	37.2	36.1	29.6	21.9	16.4	13.1	10.9	8.8	4.3	1.1
92.5°	120.3	142.3	140.3	109.2	74.5	49.7	39.4	32.0	27.1	19.2	13.4
95°	375.6	429.2	379.9	252.9	157.7	107.3	81.1	63.5	53.6	42.7	38.4
97.5°	768.6	732.7	551.9	340.7	208.0	144.8	115.0	94.8	79.9	68.3	62.4
100°	1022.7	865.0	595.6	359.1	225.6	167.5	136.9	115.0	97.5	87.6	84.3
102.5°	1117.3	869.4	579.0	360.1	241.3	187.7	157.0	134.2	116.7	106.9	104.4
105°	1102.6	811.3	546.4	365.7	268.2	216.8	186.2	162.0	145.6	138.0	133.6
107.5°	1006.4	749.1	530.2	380.8	295.9	245.9	215.1	191.1	176.1	168.6	165.1
110°	946.0	719.3	526.7	393.0	314.2	266.1	234.3	211.3	197.1	190.5	186.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	904.0	700.1	527.5	406.2	331.8	285.3	252.7	230.5	217.3	209.8	205.4
115°	851.9	678.8	532.2	425.9	359.1	312.1	282.5	260.6	247.4	240.9	235.4
117.5°	819.0	668.5	540.0	447.0	384.3	340.7	310.1	289.1	277.5	270.9	266.6
120°	801.4	662.4	545.3	461.0	401.8	359.1	328.5	306.6	296.7	290.1	285.8
122.5°	786.6	658.9	551.4	473.3	418.5	378.4	346.9	325.0	314.2	307.6	304.2
125°	765.3	652.6	560.6	492.8	443.5	404.1	373.3	351.5	338.4	331.8	328.5
127.5°	745.6	648.8	570.0	510.9	466.7	428.3	396.8	375.8	361.4	352.1	347.7
130°	732.5	647.1	577.0	522.3	480.7	442.3	411.7	389.8	374.5	363.5	359.1
132.5°	722.0	646.2	584.0	533.7	492.9	456.4	425.7	402.9	386.7	374.9	369.7
135°	707.3	644.9	592.4	548.6	510.2	475.2	444.5	419.3	402.9	389.8	385.4
137.5°	697.0	644.7	599.8	560.0	524.2	489.7	461.2	436.2	418.7	405.6	400.3
140°	690.9	643.9	603.3	566.1	532.2	499.3	470.8	446.8	429.2	416.0	411.7
142.5°	684.8	643.9	606.0	571.4	538.3	506.3	479.6	456.4	438.8	426.6	423.1
145°	676.7	641.6	608.8	578.2	547.4	517.9	493.8	471.9	455.5	444.5	440.2
147.5°	668.4	637.7	609.6	581.8	554.9	527.1	505.7	487.5	472.3	461.8	458.5
150°	661.3	635.1	608.8	583.6	558.5	533.2	513.5	497.1	482.9	474.1	470.8
152.5°	655.2	630.7	607.0	584.5	561.9	539.3	521.4	505.9	493.3	484.7	483.1
155°	643.9	623.0	604.4	585.8	567.1	548.6	532.2	520.1	508.0	501.4	500.4
157.5°	633.1	615.1	599.4	585.8	570.9	555.2	541.3	531.7	521.2	515.9	514.8
160°	625.2	609.9	596.7	585.8	572.7	559.5	547.4	538.7	529.9	525.6	524.4
162.5°	618.2	605.5	594.1	584.9	573.5	562.1	552.7	544.8	537.8	533.5	534.1
165°	606.6	596.7	589.1	582.5	574.9	565.0	558.5	552.9	546.4	544.2	545.3
167.5°	595.2	589.1	584.0	581.0	574.6	567.4	563.3	559.3	555.2	553.2	554.5
170°	589.1	584.7	581.4	579.2	573.7	568.3	565.0	562.8	559.5	558.5	560.6
172.5°	583.0	579.5	577.9	576.6	572.9	569.1	566.8	565.4	562.1	562.8	564.1
175°	574.9	573.7	572.7	573.7	571.6	569.4	568.3	568.3	566.1	567.1	568.3
177.5°	570.2	569.4	570.2	572.0	570.2	569.4	569.4	569.4	567.6	568.4	570.2
180°	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	1018.9	1019.7	1025.4	1027.9	1033.0	1035.0	1037.2	1036.6	1036.6	1037.7	1045.7
5°	1021.1	1028.1	1038.7	1048.9	1058.8	1067.2	1072.8	1078.5	1080.5	1090.8	1099.9
7.5°	1017.5	1030.4	1047.8	1063.4	1082.0	1096.6	1108.7	1119.6	1127.1	1142.0	1157.2
10°	1012.7	1031.0	1050.7	1070.7	1096.5	1115.8	1135.5	1150.7	1155.6	1177.7	1190.4
12.5°	1003.1	1027.6	1052.6	1078.6	1103.7	1130.4	1152.1	1167.2	1184.6	1204.5	1227.9
15°	988.7	1016.9	1049.6	1083.1	1119.0	1151.3	1174.6	1201.0	1219.9	1241.8	1262.2
17.5°	968.1	1004.4	1045.9	1084.7	1126.1	1160.9	1193.0	1218.2	1231.6	1244.1	1247.2
20°	951.8	990.8	1039.7	1085.5	1127.0	1167.2	1198.8	1219.9	1223.5	1223.8	1205.1
22.5°	934.1	978.2	1029.4	1076.2	1125.9	1170.5	1195.1	1204.2	1190.2	1166.4	1130.3
25°	901.4	952.4	1011.9	1065.5	1119.6	1161.9	1170.4	1154.5	1105.6	1054.1	989.1
27.5°	866.1	923.4	987.2	1046.7	1104.5	1130.7	1112.4	1055.3	967.1	890.6	797.8
30°	840.2	904.6	967.2	1033.8	1087.2	1098.5	1056.7	972.5	869.8	754.3	661.8
32.5°	810.6	878.1	947.0	1015.8	1060.5	1049.5	980.3	876.8	756.3	642.8	555.3
35°	768.4	838.1	912.3	981.3	1009.8	962.3	858.8	724.1	600.9	494.9	434.7
37.5°	719.6	795.5	872.7	936.0	934.1	854.8	713.9	574.7	471.2	408.5	365.6
40°	684.9	761.7	845.1	898.6	875.7	772.6	619.8	488.5	412.8	362.9	331.6
42.5°	651.8	728.8	811.6	854.1	814.4	687.6	535.4	432.5	370.0	331.1	305.7
45°	595.2	676.5	753.3	776.8	705.7	566.0	432.9	358.4	316.8	287.9	270.3
47.5°	540.0	619.9	689.9	690.4	594.2	459.0	365.2	310.1	274.7	252.3	239.5
50°	506.1	582.2	640.9	631.8	522.7	408.3	326.6	279.1	249.6	232.3	219.0
52.5°	468.2	541.9	592.8	566.8	462.1	359.3	292.0	252.1	227.6	212.6	200.7
55°	412.8	478.3	514.3	474.9	377.0	298.8	246.8	215.4	197.1	184.5	174.3
57.5°	358.6	412.6	435.2	389.3	310.5	247.8	208.7	185.2	167.0	158.0	152.7
60°	324.5	370.6	386.4	335.8	269.9	216.8	184.8	163.0	149.6	143.6	138.4
62.5°	291.1	328.7	335.3	288.8	235.4	189.8	162.3	143.8	135.0	129.2	124.2
65°	241.5	268.5	265.4	228.1	186.2	150.6	130.5	119.3	112.6	104.5	95.8
67.5°	198.8	215.4	205.4	177.4	142.1	117.1	104.0	95.5	87.2	79.5	77.5
70°	171.7	181.3	170.7	145.1	116.5	98.2	87.7	77.5	72.5	70.8	67.6
72.5°	145.9	149.2	137.8	115.7	94.8	81.3	71.1	65.3	62.7	61.2	59.1
75°	109.4	107.0	97.2	79.9	65.8	56.6	53.5	51.4	49.7	48.3	47.1
77.5°	76.9	73.2	64.5	53.3	45.8	41.5	39.6	38.5	37.6	36.9	35.8
80°	57.7	55.2	46.5	38.0	34.9	32.7	31.7	30.3	30.3	29.6	28.5
82.5°	42.2	39.5	31.9	27.9	26.1	24.9	24.0	23.2	22.9	23.1	22.3
85°	22.1	17.9	15.8	15.2	14.0	13.4	13.8	13.0	13.0	13.0	12.6
87.5°	7.6	7.1	7.3	7.4	8.4	9.4	10.7	12.0	12.5	12.0	12.1
90°	4.3	8.8	10.9	13.1	16.4	21.9	29.6	36.1	37.2	36.1	35.1
92.5°	19.2	27.1	32.0	39.4	49.7	74.5	109.2	140.3	142.3	120.3	95.5
95°	42.7	53.6	63.5	81.1	107.3	157.7	252.9	379.9	429.2	375.6	286.9
97.5°	68.3	79.9	94.8	115.0	144.8	208.0	340.7	551.9	732.7	768.6	669.4
100°	87.6	97.5	115.0	136.9	167.5	225.6	359.1	595.6	865.0	1022.7	999.7
102.5°	106.9	116.7	134.2	157.0	187.7	241.3	360.1	579.0	869.4	1117.3	1216.1
105°	138.0	145.6	162.0	186.2	216.8	268.2	365.7	546.4	811.3	1102.6	1330.3
107.5°	168.6	176.1	191.1	215.1	245.9	295.9	380.8	530.2	749.1	1006.4	1248.0
110°	190.5	197.1	211.3	234.3	266.1	314.2	393.0	526.7	719.3	946.0	1177.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	209.8	217.3	230.5	252.7	285.3	331.8	406.2	527.5	700.1	904.0	1112.2
115°	240.9	247.4	260.6	282.5	312.1	359.1	425.9	532.2	678.8	851.9	1032.6
117.5°	270.9	277.5	289.1	310.1	340.7	384.3	447.0	540.0	668.5	819.0	972.5
120°	290.1	296.7	306.6	328.5	359.1	401.8	461.0	545.3	662.4	801.4	942.7
122.5°	307.6	314.2	325.0	346.9	378.4	418.5	473.3	551.4	658.9	786.6	919.1
125°	331.8	338.4	351.5	373.3	404.1	443.5	492.8	560.6	652.6	765.3	884.7
127.5°	352.1	361.4	375.8	396.8	428.3	466.7	510.9	570.0	648.8	745.6	850.7
130°	363.5	374.5	389.8	411.7	442.3	480.7	522.3	577.0	647.1	732.5	828.9
132.5°	374.9	386.7	402.9	425.7	456.4	492.9	533.7	584.0	646.2	722.0	807.9
135°	389.8	402.9	419.3	444.5	475.2	510.2	548.6	592.4	644.9	707.3	778.4
137.5°	405.6	418.7	436.2	461.2	489.7	524.2	560.0	599.8	644.7	697.0	755.1
140°	416.0	429.2	446.8	470.8	499.3	532.2	566.1	603.3	643.9	690.9	740.2
142.5°	426.6	438.8	456.4	479.6	506.3	538.3	571.4	606.0	643.9	684.8	727.9
145°	444.5	455.5	471.9	493.8	517.9	547.4	578.2	608.8	641.6	676.7	710.6
147.5°	461.8	472.3	487.5	505.7	527.1	554.9	581.8	609.6	637.7	668.4	697.3
150°	474.1	482.9	497.1	513.5	533.2	558.5	583.6	608.8	635.1	661.3	687.6
152.5°	484.7	493.3	505.9	521.4	539.3	561.9	584.5	607.0	630.7	655.2	678.0
155°	501.4	508.0	520.1	532.2	548.6	567.1	585.8	604.4	623.0	643.9	664.6
157.5°	515.9	521.2	531.7	541.3	555.2	570.9	585.8	599.4	615.1	633.1	649.0
160°	525.6	529.9	538.7	547.4	559.5	572.7	585.8	596.7	609.9	625.2	639.4
162.5°	533.5	537.8	544.8	552.7	562.1	573.5	584.9	594.1	605.5	618.2	629.8
165°	544.2	546.4	552.9	558.5	565.0	574.9	582.5	589.1	596.7	606.6	615.4
167.5°	553.2	555.2	559.3	563.3	567.4	574.6	581.0	584.0	589.1	595.2	601.5
170°	558.5	559.5	562.8	565.0	568.3	573.7	579.2	581.4	584.7	589.1	594.6
172.5°	562.8	562.1	565.4	566.8	569.1	572.9	576.6	577.9	579.5	583.0	586.6
175°	567.1	566.1	568.3	568.3	569.4	571.6	573.7	572.7	573.7	574.9	578.2
177.5°	568.4	567.6	569.4	569.4	569.4	570.2	572.0	570.2	569.4	570.2	572.0
180°	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	1048.5	1052.2	1053.9	1053.9	1055.8	1055.0	1054.1
5°	1108.7	1115.4	1116.8	1123.1	1127.8	1126.3	1127.0
7.5°	1168.7	1179.4	1190.1	1194.9	1195.7	1198.5	1199.6
10°	1205.5	1214.4	1230.9	1228.4	1240.8	1247.7	1236.1
12.5°	1241.0	1252.9	1264.4	1267.5	1274.5	1276.8	1272.1
15°	1273.1	1279.4	1280.2	1278.4	1280.5	1278.7	1272.1
17.5°	1243.1	1232.8	1212.0	1202.1	1194.3	1182.8	1178.2
20°	1193.5	1163.3	1128.1	1114.0	1097.5	1065.1	1072.8
22.5°	1086.6	1052.1	1016.9	975.7	956.1	925.4	923.6
25°	920.1	860.6	795.1	749.3	722.6	692.0	678.6
27.5°	715.4	640.5	586.8	559.7	534.9	510.7	509.6
30°	580.8	524.4	483.0	459.7	444.6	434.3	436.5
32.5°	489.6	450.9	422.9	403.7	392.5	384.7	384.7
35°	400.2	373.8	355.8	347.8	339.7	334.0	334.4
37.5°	342.5	326.6	316.6	307.7	302.7	299.9	298.3
40°	312.9	299.9	292.2	286.9	282.7	278.8	278.1
42.5°	289.5	278.8	271.0	266.8	263.0	260.1	259.5
45°	256.9	248.2	241.1	236.5	234.8	232.3	232.3
47.5°	228.6	219.9	214.4	211.5	208.5	206.9	206.8
50°	209.4	202.7	197.8	196.0	193.6	192.6	192.2
52.5°	192.3	187.3	183.7	182.6	181.4	180.1	180.3
55°	168.9	166.2	164.8	163.6	161.9	159.8	161.2
57.5°	149.3	146.9	143.1	139.8	138.2	136.7	137.2
60°	135.5	130.5	125.6	121.8	120.7	117.5	117.5
62.5°	118.1	111.1	105.1	102.9	101.9	100.4	100.1
65°	90.8	88.0	86.6	85.2	84.5	84.5	83.8
67.5°	75.2	74.1	72.6	72.2	71.5	71.4	71.1
70°	66.5	65.1	64.4	64.1	63.3	63.7	62.7
72.5°	58.1	56.9	56.8	55.9	55.5	55.5	54.8
75°	45.7	45.7	45.4	45.1	44.4	44.0	44.4
77.5°	35.2	35.3	34.6	34.6	34.5	34.6	34.2
80°	28.2	28.5	28.2	27.8	27.4	27.8	27.4
82.5°	22.2	21.8	21.7	21.6	21.6	21.3	21.3
85°	12.6	13.0	12.6	12.3	12.3	12.3	12.6
87.5°	11.3	11.8	12.0	12.0	12.0	12.0	11.7
90°	32.9	35.1	36.1	36.1	36.1	36.1	36.1
92.5°	81.9	72.7	65.9	65.0	61.5	62.4	60.7
95°	220.1	174.1	150.0	135.7	127.1	123.8	124.8
97.5°	547.7	429.2	350.2	297.8	270.9	254.9	245.7
100°	863.9	713.9	581.4	490.5	443.5	411.7	392.0
102.5°	1185.3	1075.6	935.3	836.5	756.2	716.5	689.8
105°	1454.1	1468.3	1432.2	1364.2	1296.4	1249.3	1234.0
107.5°	1434.4	1548.2	1601.2	1609.8	1606.0	1596.6	1576.2
110°	1373.0	1513.2	1603.0	1650.0	1670.8	1680.7	1679.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1300.3	1450.1	1553.0	1618.5	1653.3	1672.0	1677.8
115°	1201.2	1344.5	1457.4	1535.1	1585.5	1613.9	1623.8
117.5°	1120.6	1250.7	1356.4	1435.7	1488.8	1518.9	1527.2
120°	1078.5	1194.6	1294.2	1370.8	1422.3	1454.1	1465.0
122.5°	1043.5	1153.4	1243.4	1312.1	1362.7	1391.0	1400.1
125°	997.5	1093.8	1175.9	1239.4	1281.1	1308.4	1317.2
127.5°	952.8	1043.7	1119.5	1174.9	1213.8	1237.5	1244.5
130°	923.0	1009.6	1081.8	1135.5	1172.7	1194.6	1203.3
132.5°	895.0	974.5	1042.4	1095.1	1132.4	1152.5	1160.4
135°	850.7	923.0	984.3	1031.4	1067.5	1087.2	1091.7
137.5°	815.5	872.9	926.3	969.2	1000.3	1017.7	1024.2
140°	792.8	843.1	891.3	926.3	954.8	971.2	977.8
142.5°	772.6	816.0	856.2	889.5	915.4	930.0	931.3
145°	746.8	780.7	812.5	838.7	857.3	868.3	871.6
147.5°	725.8	752.2	775.4	797.1	812.0	819.4	821.4
150°	711.7	734.7	754.4	770.8	784.0	790.5	791.6
152.5°	700.3	719.8	736.9	749.8	761.2	766.0	766.2
155°	682.1	698.5	710.6	722.6	730.3	734.7	732.5
157.5°	663.7	677.5	686.9	695.5	701.8	703.8	703.8
160°	651.5	663.5	671.2	678.8	684.3	685.4	685.4
162.5°	640.1	650.4	656.3	663.9	667.7	668.7	667.9
165°	623.0	630.7	635.1	639.4	643.9	643.9	642.7
167.5°	607.5	612.7	616.7	618.6	621.0	620.9	619.5
170°	597.9	602.2	604.4	605.5	608.8	607.7	605.5
172.5°	589.1	592.6	593.9	595.0	596.5	595.4	594.1
175°	579.2	580.3	581.4	581.4	582.5	581.4	579.2
177.5°	572.0	572.9	572.9	572.9	572.9	572.0	570.2
180°	569.4	569.4	569.4	569.4	569.4	569.4	569.4

(END OF REPORT)