

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: P331984-930

Luminaire Tested: **S123DIP-S775D1025U930-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331984-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S775D1025U930-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5686.7 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

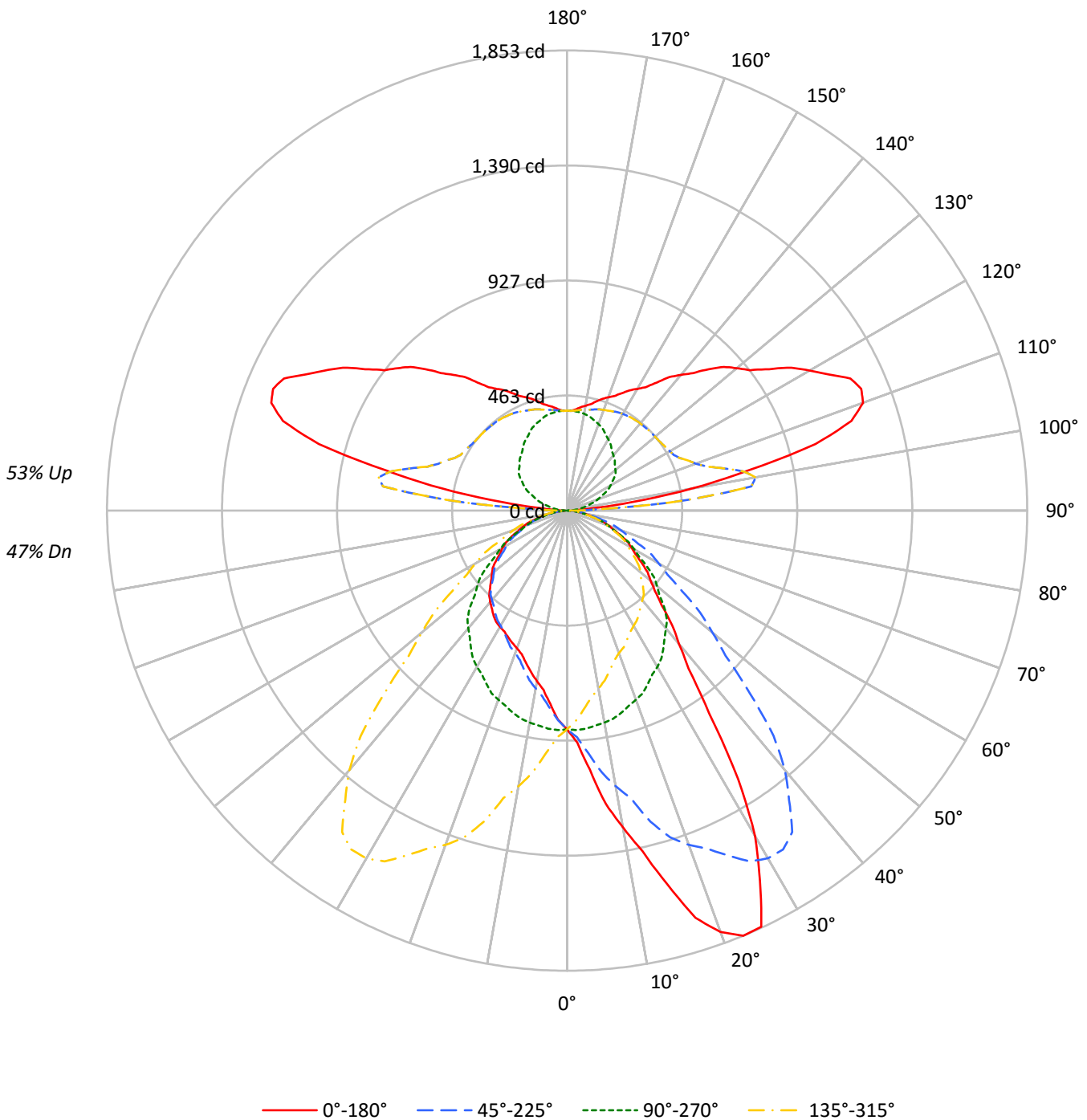
Input Watts (W): 52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47				47
1	97	93	89	86	89	86	82	80	72	70	67	59	58	56	47	46	45	40				40
2	89	82	76	71	81	75	70	66	63	59	56	52	50	47	42	40	39	34				34
3	81	72	65	59	74	66	60	55	56	51	48	46	43	40	37	35	33	29				29
4	74	64	56	50	68	59	52	47	50	45	41	41	38	35	34	31	29	25				25
5	68	57	49	43	62	53	46	40	45	39	35	37	33	30	30	27	25	22				22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	24	22	19				19
7	58	46	38	33	53	43	36	31	36	31	27	31	26	23	25	22	20	17				17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15				15
9	50	38	31	26	46	35	29	24	30	25	21	26	22	19	21	18	16	14				14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	14	12				12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9482	9482	9482	9482
5°	11309	9524	8440	9524
10°	14154	9475	7623	9475
15°	17361	9399	7096	9399
20°	20681	9279	6757	9279
25°	21960	9136	6682	9136
30°	18821	9028	6717	9028
35°	13090	8878	6787	8878
40°	9860	8702	6764	8702
45°	8187	8441	6680	8441
50°	7333	7906	6620	7906
55°	6855	7328	6536	7328
60°	6433	6725	6469	6725
65°	6044	6133	6260	6133
70°	5668	5454	5964	5454
75°	5078	4774	5465	4774
80°	4444	3918	4711	3918
85°	3483	2853	3162	2853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	1.5
10°-20°	278.3	4.9
20°-30°	467.0	8.2
30°-40°	528.8	9.3
40°-50°	474.2	8.3
50°-60°	382.7	6.7
60°-70°	266.7	4.7
70°-80°	140.2	2.5
80°-90°	37.4	0.7
90°-100°	223.7	3.9
100°-110°	633.5	11.1
110°-120°	623.2	11.0
120°-130°	497.1	8.7
130°-140°	391.9	6.9
140°-150°	292.5	5.1
150°-160°	203.9	3.6
160°-170°	119.8	2.1
170°-180°	39.0	0.7
0°-30°	832.1	14.6
0°-40°	1360.9	23.9
0°-60°	2217.8	39.0
0°-90°	2662.0	46.8
90°-120°	1480.5	26.0
90°-150°	2662.0	46.8
90°-180°	3025.0	53.2
0°-180°	5686.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	881	881	881	881	881	
5°	1047	881	781	881	1047	108
15°	1558	843	637	843	1558	450
25°	1849	769	563	769	1849	811
35°	996	676	516	676	996	647
45°	538	554	439	554	538	426
55°	365	390	348	390	365	328
65°	237	241	246	241	237	236
75°	122	115	131	115	122	131
85°	28	23	26	23	28	34
90°	24	2	24	2	24	14
95°	94	28	94	28	94	170
105°	1035	94	1035	94	1035	1021
115°	1259	167	1259	167	1259	1223
125°	993	232	993	232	993	900
135°	805	272	805	272	805	624
145°	629	310	629	310	629	400
155°	522	352	522	352	522	243
165°	455	385	455	385	455	130
175°	409	401	409	401	409	40
180°	402	402	402	402	402	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	934.9	934.3	932.5	933.9	931.2	927.4	927.1	923.7	913.7	913.1	910.4
5°	1046.6	1043.2	1042.8	1042.3	1036.3	1028.3	1012.8	1011.5	991.1	980.8	968.5
7.5°	1191.2	1192.9	1186.7	1181.3	1163.0	1151.0	1134.5	1113.4	1088.3	1062.7	1045.7
10°	1295.0	1309.0	1291.6	1279.6	1268.5	1247.6	1223.3	1192.9	1162.7	1127.2	1100.3
12.5°	1406.3	1413.2	1409.7	1398.5	1381.2	1349.4	1306.3	1272.8	1245.0	1185.9	1162.1
15°	1557.9	1584.0	1567.3	1528.8	1529.7	1499.4	1443.1	1381.2	1348.3	1296.7	1226.3
17.5°	1719.4	1722.6	1715.6	1683.6	1662.2	1620.6	1568.6	1509.3	1442.7	1380.1	1305.5
20°	1805.5	1802.9	1788.0	1771.3	1734.6	1702.2	1645.4	1579.2	1493.9	1432.4	1350.9
22.5°	1853.3	1849.0	1841.9	1828.0	1797.4	1762.6	1711.6	1639.3	1558.1	1473.4	1379.2
25°	1849.0	1854.6	1855.4	1851.5	1840.9	1820.0	1779.9	1722.2	1641.1	1532.3	1434.1
27.5°	1681.7	1689.5	1712.4	1732.6	1755.2	1778.2	1775.2	1746.5	1686.5	1592.6	1472.5
30°	1514.3	1497.3	1539.5	1592.9	1629.2	1693.2	1729.1	1731.2	1697.5	1616.8	1499.8
32.5°	1282.1	1301.0	1319.6	1385.3	1464.6	1536.5	1607.9	1665.3	1671.9	1618.2	1515.9
35°	996.2	1019.7	1053.9	1087.9	1173.4	1246.8	1372.2	1481.5	1568.6	1580.1	1517.4
37.5°	802.7	814.4	836.0	870.2	926.0	1013.1	1110.2	1248.3	1374.4	1468.3	1472.3
40°	701.7	705.2	729.4	755.5	800.7	872.5	959.9	1082.0	1233.1	1364.2	1418.8
42.5°	625.9	633.4	643.8	668.7	704.7	758.7	840.1	940.9	1079.5	1230.3	1337.2
45°	537.8	546.3	552.8	569.4	595.0	631.3	688.0	780.2	885.7	1041.5	1185.3
47.5°	479.6	480.3	485.0	497.6	515.0	542.3	582.4	641.6	738.4	864.7	1012.4
50°	437.9	444.7	446.5	456.2	469.9	490.0	523.3	573.6	653.1	764.0	899.8
52.5°	408.5	410.6	415.4	422.5	434.4	450.0	478.9	518.4	580.7	675.2	800.1
55°	365.3	365.3	370.1	375.6	382.5	396.5	415.7	444.7	492.1	565.6	668.9
57.5°	325.4	327.5	330.8	332.6	338.3	347.7	363.7	385.8	421.1	477.6	559.7
60°	298.8	302.6	302.2	305.6	310.7	318.0	331.7	349.6	381.2	426.4	495.5
62.5°	275.6	275.3	275.2	279.3	284.5	291.4	300.2	315.8	342.6	382.7	441.6
65°	237.3	236.4	239.5	242.0	243.7	248.8	255.7	269.3	287.2	317.2	362.8
67.5°	203.3	200.9	202.5	203.3	206.3	210.3	216.6	225.1	239.4	263.3	297.7
70°	180.1	178.0	177.6	178.4	181.0	183.9	188.7	196.7	210.0	229.2	254.4
72.5°	156.2	154.7	154.7	156.5	157.8	159.7	163.1	170.5	181.0	195.4	218.9
75°	122.1	122.1	122.1	122.5	123.8	125.5	128.1	131.9	140.0	150.3	166.0
77.5°	91.5	91.4	90.9	90.8	92.7	93.5	94.1	97.7	102.2	109.1	120.6
80°	71.7	69.5	70.4	71.7	72.6	73.0	74.3	75.1	79.0	82.8	90.9
82.5°	53.2	51.4	51.6	53.6	53.8	54.2	55.5	56.7	58.1	61.6	66.0
85°	28.2	28.2	28.6	28.6	29.0	28.6	29.8	30.3	30.3	32.4	35.0
87.5°	15.0	14.4	14.6	14.8	14.6	14.7	14.8	15.0	15.2	15.7	15.6
90°	23.6	24.4	23.6	22.7	23.6	22.0	21.2	20.4	19.6	20.4	17.9
92.5°	39.2	40.7	39.9	42.3	43.8	48.0	54.4	68.5	94.4	125.1	137.7
95°	94.4	97.7	103.4	110.7	126.1	155.5	198.6	292.9	391.4	482.6	429.7
97.5°	257.0	264.0	286.0	322.6	382.6	480.0	585.0	730.3	800.1	747.9	547.6
100°	510.3	509.5	541.2	600.6	682.8	798.3	893.6	959.5	931.0	770.7	520.8
102.5°	748.5	767.3	793.8	840.8	904.8	978.0	1033.6	1035.7	937.5	728.4	481.8
105°	1035.2	1039.3	1065.3	1096.2	1133.7	1154.8	1139.4	1057.9	887.9	654.3	433.7
107.5°	1200.2	1207.7	1216.5	1226.9	1226.3	1197.3	1126.0	993.8	801.0	588.9	403.2
110°	1268.0	1269.6	1271.2	1264.7	1241.9	1184.9	1082.4	932.6	746.2	551.8	391.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1281.6	1281.2	1275.0	1254.9	1213.2	1140.0	1025.1	872.0	698.7	527.0	384.9
115°	1259.0	1254.9	1238.6	1202.8	1141.7	1053.0	933.4	791.8	641.3	500.5	382.5
117.5°	1187.0	1181.5	1158.1	1117.0	1053.4	963.4	856.0	733.8	606.6	484.9	383.9
120°	1127.2	1122.3	1102.7	1057.1	992.9	910.7	813.0	703.1	588.4	477.7	386.5
122.5°	1071.1	1064.9	1043.5	1002.5	945.3	869.0	778.5	679.1	573.4	473.1	391.1
125°	992.9	987.2	966.8	931.0	878.9	813.8	735.7	647.0	554.2	467.2	397.9
127.5°	928.4	923.2	904.8	874.2	827.8	768.6	698.1	619.0	537.3	464.2	405.8
130°	891.9	885.4	868.4	839.0	795.9	740.5	674.7	601.4	528.2	462.3	411.0
132.5°	856.1	851.6	836.4	807.1	766.6	713.9	652.5	585.1	519.7	461.6	414.9
135°	804.9	799.2	784.5	760.1	720.2	673.8	620.9	563.1	508.7	460.6	420.8
137.5°	750.6	746.9	734.6	709.8	676.3	636.1	590.5	543.2	499.0	458.9	424.6
140°	712.9	713.7	700.7	677.9	647.0	612.0	572.9	531.4	493.2	458.2	427.2
142.5°	677.8	678.6	666.8	646.7	620.3	589.9	556.0	520.3	488.0	456.9	429.2
145°	629.1	627.5	620.9	603.8	583.5	559.9	533.9	507.0	480.9	454.9	430.5
147.5°	589.1	588.4	582.2	570.6	555.2	538.4	517.4	496.1	474.1	451.8	430.5
150°	565.6	565.6	560.7	551.8	539.6	524.1	507.0	488.3	469.5	449.2	430.5
152.5°	546.1	546.1	543.2	534.8	525.2	512.4	497.3	481.1	464.4	446.0	428.5
155°	521.6	520.8	519.2	512.7	505.4	495.6	483.4	470.3	456.6	440.3	426.4
157.5°	499.4	499.5	498.2	493.3	487.0	479.3	469.9	459.0	447.8	435.2	423.7
160°	485.0	485.8	485.8	480.9	475.2	469.5	461.5	452.5	441.9	431.3	422.4
162.5°	472.0	472.8	472.8	468.6	464.9	459.8	452.3	444.7	436.0	427.4	419.8
165°	454.9	454.9	455.8	452.5	449.2	445.2	439.4	434.6	428.0	421.6	415.9
167.5°	438.6	438.6	439.4	437.2	435.7	432.8	429.5	425.7	420.4	415.7	412.0
170°	428.8	428.8	429.7	428.0	427.2	425.6	422.4	420.0	415.9	411.8	409.4
172.5°	419.8	420.4	421.9	420.3	420.1	419.1	416.5	414.7	411.3	408.5	407.4
175°	409.4	410.2	411.0	410.2	410.2	410.2	408.5	407.7	406.1	404.5	404.5
177.5°	403.3	403.3	404.6	404.0	404.6	404.6	404.0	403.3	402.7	402.0	402.7
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	908.2	905.6	902.8	898.1	894.0	888.1	886.4	884.4	878.2	872.8	868.7
5°	963.8	953.5	938.6	925.0	913.9	898.9	890.4	881.4	868.6	857.0	847.7
7.5°	1021.8	1001.7	978.4	953.3	929.9	907.4	889.2	873.0	855.1	838.1	824.9
10°	1067.9	1038.9	1006.5	971.4	941.6	912.6	888.2	866.9	843.8	823.8	807.1
12.5°	1120.5	1077.5	1032.7	990.3	954.9	914.6	885.2	858.0	831.8	807.7	789.0
15°	1182.8	1128.1	1075.1	1016.7	963.0	912.6	877.6	843.4	813.1	788.3	764.4
17.5°	1239.4	1177.5	1107.7	1036.7	971.8	912.1	863.1	824.4	786.5	756.3	732.5
20°	1271.5	1201.1	1122.1	1048.3	976.6	910.0	856.2	810.1	769.2	737.1	710.2
22.5°	1299.2	1216.8	1135.1	1056.1	976.2	904.5	843.6	796.1	751.7	720.4	691.8
25°	1327.9	1229.2	1147.3	1054.7	965.5	891.2	822.9	769.2	724.7	688.0	658.6
27.5°	1352.4	1228.4	1131.1	1031.5	948.6	874.2	801.2	743.6	696.4	656.6	626.6
30°	1368.8	1230.1	1114.4	1015.9	932.2	855.3	784.5	726.4	676.9	636.4	608.2
32.5°	1379.1	1229.1	1099.1	994.0	906.2	838.3	766.4	706.3	655.4	615.6	588.4
35°	1385.0	1221.6	1072.6	948.8	864.3	798.2	738.0	675.6	622.3	585.1	554.5
37.5°	1373.1	1205.7	1041.9	905.3	812.8	747.6	697.0	643.9	592.9	552.0	525.5
40°	1354.3	1195.6	1018.0	874.6	777.2	714.5	671.4	619.3	568.9	530.1	505.3
42.5°	1318.4	1174.7	991.6	840.4	740.4	677.6	638.0	594.4	546.7	510.3	485.6
45°	1230.9	1129.4	952.3	789.2	685.9	621.0	586.0	554.5	511.4	475.9	454.5
47.5°	1109.5	1061.2	895.2	735.2	629.1	566.6	530.3	504.8	473.4	444.7	424.3
50°	1025.2	1005.2	856.6	698.3	591.2	530.1	495.1	472.1	449.5	420.9	402.1
52.5°	927.9	940.3	811.5	660.1	552.5	492.5	459.6	441.3	420.8	397.3	380.9
55°	790.9	835.7	733.7	595.8	495.1	437.9	406.8	390.5	378.6	361.1	347.0
57.5°	662.6	719.7	649.5	529.7	438.7	389.4	359.5	341.8	334.1	325.0	313.9
60°	586.4	642.8	589.5	485.3	400.8	353.8	327.3	312.4	304.8	298.3	288.9
62.5°	518.5	575.5	530.7	440.3	363.5	320.0	297.0	282.4	276.4	273.0	265.1
65°	425.1	474.2	444.3	370.1	310.3	271.9	250.9	240.8	235.2	233.9	228.8
67.5°	346.0	383.4	361.6	307.0	259.9	226.7	209.0	200.2	196.0	195.6	191.8
70°	294.1	329.1	312.4	262.9	222.4	196.3	181.0	173.3	170.7	170.3	168.2
72.5°	253.8	278.2	265.0	223.6	192.3	168.7	157.4	149.4	146.5	147.1	145.6
75°	187.8	206.2	198.4	169.9	144.7	129.3	119.9	114.8	112.3	113.6	111.9
77.5°	135.1	146.8	139.8	120.0	104.5	93.4	86.5	83.3	81.0	81.0	80.1
80°	102.0	108.8	105.0	93.0	80.2	70.8	65.3	63.2	61.9	61.5	61.1
82.5°	72.6	78.4	73.9	65.7	57.0	51.4	48.3	45.4	44.5	44.8	44.3
85°	36.7	38.8	37.1	32.0	28.6	26.0	24.3	23.1	22.2	22.6	21.8
87.5°	15.7	15.6	14.1	12.4	11.3	9.9	9.5	8.6	8.2	8.5	8.6
90°	15.5	13.0	10.6	9.0	7.3	4.9	3.3	1.6	3.3	4.9	7.3
92.5°	103.4	68.3	47.0	35.0	28.1	21.9	15.0	10.1	15.0	21.9	28.1
95°	296.2	175.0	105.8	74.0	52.9	39.1	30.1	27.6	30.1	39.1	52.9
97.5°	325.1	188.3	122.2	87.9	67.0	55.0	48.0	47.2	48.0	55.0	67.0
100°	306.8	186.4	129.4	97.7	78.1	66.8	61.1	60.3	61.1	66.8	78.1
102.5°	291.1	189.0	137.9	108.8	91.2	80.4	75.3	73.9	75.3	80.4	91.2
105°	280.0	196.2	152.2	126.9	111.5	101.7	96.9	94.4	96.9	101.7	111.5
107.5°	279.2	209.5	170.9	147.5	133.0	123.4	118.6	116.2	118.6	123.4	133.0
110°	282.4	220.5	183.9	161.1	147.3	138.4	134.3	131.8	134.3	138.4	147.3



TEST NUMBER: P331984-930

CATALOG NUMBER: S123DIP-S775D1025U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	288.9	231.6	197.6	175.5	161.6	152.7	148.6	146.2	148.6	152.7	161.6
115°	299.5	249.8	218.9	197.0	183.1	175.0	170.1	166.8	170.1	175.0	183.1
117.5°	313.5	269.2	238.6	218.3	202.8	195.3	191.3	187.5	191.3	195.3	202.8
120°	323.9	281.6	252.3	232.0	216.5	208.3	204.2	201.8	204.2	208.3	216.5
122.5°	333.7	294.6	266.0	244.3	229.5	220.7	216.6	214.2	216.6	220.7	229.5
125°	349.1	313.3	284.9	262.9	247.4	238.5	233.6	232.0	233.6	238.5	247.4
127.5°	361.8	329.6	302.1	280.1	263.0	253.9	247.9	245.5	247.9	253.9	263.0
130°	370.3	339.3	312.5	290.5	273.5	263.7	256.3	253.9	256.3	263.7	273.5
132.5°	378.1	347.8	321.6	300.3	283.2	271.5	263.5	260.4	263.5	271.5	283.2
135°	388.2	360.5	335.3	313.3	296.2	284.1	275.1	271.8	275.1	284.1	296.2
137.5°	395.7	369.3	345.0	324.7	307.8	294.7	286.0	282.6	286.0	294.7	307.8
140°	399.6	375.2	351.6	331.3	315.0	301.9	293.8	289.8	293.8	301.9	315.0
142.5°	403.5	379.8	356.8	337.7	321.5	309.7	300.9	297.5	300.9	309.7	321.5
145°	407.7	385.7	364.6	345.8	332.1	319.8	312.5	310.1	312.5	319.8	332.1
147.5°	410.3	390.6	371.3	355.3	341.9	331.4	324.2	322.8	324.2	331.4	341.9
150°	411.0	393.9	375.2	360.5	349.1	338.5	332.1	331.3	332.1	338.5	349.1
152.5°	412.3	395.8	379.8	365.7	355.6	346.3	339.8	339.7	339.8	346.3	355.6
155°	412.6	399.6	385.7	374.4	365.4	357.3	352.4	352.4	352.4	357.3	365.4
157.5°	413.4	401.7	390.6	381.8	374.2	367.0	363.1	362.5	363.1	367.0	374.2
160°	413.4	403.7	393.9	385.7	380.0	373.6	370.3	370.3	370.3	373.6	380.0
162.5°	412.8	404.3	395.8	389.0	383.9	378.8	376.2	376.2	376.2	378.8	383.9
165°	411.0	405.3	398.8	393.1	389.8	385.7	384.1	384.9	384.1	385.7	389.8
167.5°	409.7	405.1	400.4	396.8	394.5	391.4	390.6	391.6	390.6	391.4	394.5
170°	407.7	404.5	400.4	398.8	397.1	394.7	393.9	395.5	393.9	394.7	397.1
172.5°	407.1	404.5	401.0	400.1	399.1	397.3	397.1	398.1	397.1	397.3	399.1
175°	405.3	403.7	402.0	401.2	401.2	399.6	400.4	401.2	400.4	399.6	401.2
177.5°	404.0	402.7	402.0	402.0	402.0	401.4	402.0	402.7	402.0	401.4	402.0
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0



TEST NUMBER: P331984-930

CATALOG NUMBER: S123DIP-S775D1025U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	866.3	863.9	860.5	855.3	851.3	844.7	844.7	845.8	845.8	845.5	844.7
5°	840.0	833.6	825.9	816.9	807.6	798.2	796.5	793.0	790.5	788.8	786.6
7.5°	812.3	800.9	789.7	777.1	765.7	756.3	749.7	744.2	740.7	736.9	734.3
10°	793.4	779.3	766.1	752.9	738.4	726.9	719.7	714.5	710.7	707.3	705.6
12.5°	771.3	755.1	740.5	728.0	712.1	700.3	693.3	691.0	686.4	679.2	675.5
15°	738.8	723.9	706.4	687.2	679.5	665.0	656.9	653.1	650.4	644.9	643.2
17.5°	711.1	691.5	671.9	657.5	643.3	631.5	627.0	622.2	618.8	614.2	612.9
20°	688.9	671.4	653.5	638.1	623.1	610.3	606.5	603.1	599.7	597.5	595.8
22.5°	666.3	648.9	634.0	619.6	603.7	595.3	591.2	587.4	585.0	583.6	581.9
25°	634.7	619.3	602.7	589.9	577.1	571.5	568.9	566.8	565.1	563.0	562.6
27.5°	606.3	589.6	576.1	564.2	555.0	550.3	547.9	546.8	547.2	548.0	548.5
30°	585.1	569.8	558.7	548.5	540.0	535.7	535.2	535.2	537.0	537.4	538.3
32.5°	565.7	553.1	542.0	532.1	525.6	522.7	524.3	524.3	525.7	526.8	528.3
35°	537.4	526.3	517.7	509.2	503.7	504.9	505.8	506.6	508.7	511.4	513.1
37.5°	510.3	500.7	491.8	485.1	482.6	484.9	486.9	488.7	491.2	493.2	494.9
40°	490.8	483.6	475.1	469.0	469.9	471.2	473.0	475.1	477.2	478.5	480.2
42.5°	472.7	465.1	458.7	453.7	454.9	456.6	457.5	458.7	461.1	463.4	464.5
45°	445.2	439.2	433.3	430.2	431.1	431.9	432.8	434.1	436.2	437.9	438.4
47.5°	414.2	410.0	406.0	403.1	404.5	404.1	405.2	408.0	408.6	409.7	412.1
50°	394.4	390.5	385.9	385.0	385.0	385.0	385.4	388.8	388.8	390.5	392.2
52.5°	372.5	370.1	367.0	365.5	364.8	364.8	366.6	368.4	369.0	371.5	373.2
55°	340.1	337.6	335.1	333.8	332.9	333.8	337.2	338.0	340.1	341.4	342.8
57.5°	306.5	304.5	302.5	301.7	301.6	302.7	304.6	307.1	307.7	311.6	313.6
60°	284.3	281.3	279.6	279.6	278.8	282.6	281.7	286.0	286.8	289.3	292.4
62.5°	261.4	257.4	256.7	256.7	257.9	259.0	260.2	262.0	264.3	267.5	269.9
65°	224.5	222.4	225.3	224.9	224.0	226.7	226.7	228.8	231.3	234.3	239.0
67.5°	189.6	188.5	188.7	188.7	190.0	191.5	192.7	194.5	197.6	200.8	203.8
70°	166.0	167.3	165.2	166.9	168.2	168.6	169.4	172.0	175.5	177.6	181.0
72.5°	143.2	143.1	143.3	144.0	145.3	146.0	146.9	149.9	153.6	155.4	158.1
75°	110.1	109.7	111.0	111.0	113.1	114.0	114.8	116.1	119.5	122.1	124.2
77.5°	80.4	81.0	80.6	82.1	81.5	81.7	84.3	85.6	85.9	91.0	92.1
80°	60.6	61.5	61.9	62.3	62.8	61.9	64.9	66.1	66.1	69.1	71.3
82.5°	43.5	44.0	45.2	45.6	45.7	46.6	46.8	47.7	48.8	50.1	52.8
85°	21.8	23.1	23.5	23.1	23.5	22.6	23.9	24.3	24.8	24.8	24.8
87.5°	8.6	9.3	9.5	10.3	10.4	11.3	11.1	10.5	10.7	11.9	10.8
90°	9.0	10.6	13.0	15.5	17.9	20.4	19.6	20.4	21.2	22.0	23.6
92.5°	35.0	47.0	68.3	103.4	137.7	125.1	94.4	68.5	54.4	48.0	43.8
95°	74.0	105.8	175.0	296.2	429.7	482.6	391.4	292.9	198.6	155.5	126.1
97.5°	87.9	122.2	188.3	325.1	547.6	747.9	800.1	730.3	585.0	480.0	382.6
100°	97.7	129.4	186.4	306.8	520.8	770.7	931.0	959.5	893.6	798.3	682.8
102.5°	108.8	137.9	189.0	291.1	481.8	728.4	937.5	1035.7	1033.6	978.0	904.8
105°	126.9	152.2	196.2	280.0	433.7	654.3	887.9	1057.9	1139.4	1154.8	1133.7
107.5°	147.5	170.9	209.5	279.2	403.2	588.9	801.0	993.8	1126.0	1197.3	1226.3
110°	161.1	183.9	220.5	282.4	391.4	551.8	746.2	932.6	1082.4	1184.9	1241.9



TEST NUMBER: P331984-930

CATALOG NUMBER: S123DIP-S775D1025U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	175.5	197.6	231.6	288.9	384.9	527.0	698.7	872.0	1025.1	1140.0	1213.2
115°	197.0	218.9	249.8	299.5	382.5	500.5	641.3	791.8	933.4	1053.0	1141.7
117.5°	218.3	238.6	269.2	313.5	383.9	484.9	606.6	733.8	856.0	963.4	1053.4
120°	232.0	252.3	281.6	323.9	386.5	477.7	588.4	703.1	813.0	910.7	992.9
122.5°	244.3	266.0	294.6	333.7	391.1	473.1	573.4	679.1	778.5	869.0	945.3
125°	262.9	284.9	313.3	349.1	397.9	467.2	554.2	647.0	735.7	813.8	878.9
127.5°	280.1	302.1	329.6	361.8	405.8	464.2	537.3	619.0	698.1	768.6	827.8
130°	290.5	312.5	339.3	370.3	411.0	462.3	528.2	601.4	674.7	740.5	795.9
132.5°	300.3	321.6	347.8	378.1	414.9	461.6	519.7	585.1	652.5	713.9	766.6
135°	313.3	335.3	360.5	388.2	420.8	460.6	508.7	563.1	620.9	673.8	720.2
137.5°	324.7	345.0	369.3	395.7	424.6	458.9	499.0	543.2	590.5	636.1	676.3
140°	331.3	351.6	375.2	399.6	427.2	458.2	493.2	531.4	572.9	612.0	647.0
142.5°	337.7	356.8	379.8	403.5	429.2	456.9	488.0	520.3	556.0	589.9	620.3
145°	345.8	364.6	385.7	407.7	430.5	454.9	480.9	507.0	533.9	559.9	583.5
147.5°	355.3	371.3	390.6	410.3	430.5	451.8	474.1	496.1	517.4	538.4	555.2
150°	360.5	375.2	393.9	411.0	430.5	449.2	469.5	488.3	507.0	524.1	539.6
152.5°	365.7	379.8	395.8	412.3	428.5	446.0	464.4	481.1	497.3	512.4	525.2
155°	374.4	385.7	399.6	412.6	426.4	440.3	456.6	470.3	483.4	495.6	505.4
157.5°	381.8	390.6	401.7	413.4	423.7	435.2	447.8	459.0	469.9	479.3	487.0
160°	385.7	393.9	403.7	413.4	422.4	431.3	441.9	452.5	461.5	469.5	475.2
162.5°	389.0	395.8	404.3	412.8	419.8	427.4	436.0	444.7	452.3	459.8	464.9
165°	393.1	398.8	405.3	411.0	415.9	421.6	428.0	434.6	439.4	445.2	449.2
167.5°	396.8	400.4	405.1	409.7	412.0	415.7	420.4	425.7	429.5	432.8	435.7
170°	398.8	400.4	404.5	407.7	409.4	411.8	415.9	420.0	422.4	425.6	427.2
172.5°	400.1	401.0	404.5	407.1	407.4	408.5	411.3	414.7	416.5	419.1	420.1
175°	401.2	402.0	403.7	405.3	404.5	404.5	406.1	407.7	408.5	410.2	410.2
177.5°	402.0	402.0	402.7	404.0	402.7	402.0	402.7	403.3	404.0	404.6	404.6
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0



TEST NUMBER: P331984-930

CATALOG NUMBER: S123DIP-S775D1025U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	842.4	842.0	844.4	842.7	844.4	842.0	842.4	844.7	845.5	845.8	845.8
5°	784.1	785.4	781.1	781.1	781.1	785.4	784.1	786.6	788.8	790.5	793.0
7.5°	732.1	730.3	730.4	728.1	730.4	730.3	732.1	734.3	736.9	740.7	744.2
10°	700.4	697.9	697.0	697.4	697.0	697.9	700.4	705.6	707.3	710.7	714.5
12.5°	674.1	673.6	668.0	668.1	668.0	673.6	674.1	675.5	679.2	686.4	691.0
15°	643.2	635.1	634.2	636.8	634.2	635.1	643.2	643.2	644.9	650.4	653.1
17.5°	612.2	608.0	608.2	606.9	608.2	608.0	612.2	612.9	614.2	618.8	622.2
20°	595.8	593.3	592.9	589.9	592.9	593.3	595.8	595.8	597.5	599.7	603.1
22.5°	580.8	580.0	580.2	576.9	580.2	580.0	580.8	581.9	583.6	585.0	587.4
25°	562.1	564.3	562.6	562.6	562.6	564.3	562.1	562.6	563.0	565.1	566.8
27.5°	549.5	549.4	548.5	548.5	548.5	549.4	549.5	548.5	548.0	547.2	546.8
30°	540.0	539.5	540.4	540.4	540.4	539.5	540.0	538.3	537.4	537.0	535.2
32.5°	530.4	531.0	531.2	531.5	531.2	531.0	530.4	528.3	526.8	525.7	524.3
35°	515.6	516.0	517.3	516.5	517.3	516.0	515.6	513.1	511.4	508.7	506.6
37.5°	495.6	497.6	497.2	497.8	497.2	497.6	495.6	494.9	493.2	491.2	488.7
40°	480.6	481.9	481.4	481.4	481.4	481.9	480.6	480.2	478.5	477.2	475.1
42.5°	465.2	466.2	465.0	464.4	465.0	466.2	465.2	464.5	463.4	461.1	458.7
45°	440.0	439.2	440.5	438.8	440.5	439.2	440.0	438.4	437.9	436.2	434.1
47.5°	411.9	412.7	413.1	414.3	413.1	412.7	411.9	412.1	409.7	408.6	408.0
50°	393.1	395.7	395.7	395.3	395.7	395.7	393.1	392.2	390.5	388.8	388.8
52.5°	374.6	375.9	377.6	377.5	377.6	375.9	374.6	373.2	371.5	369.0	368.4
55°	346.2	347.0	347.9	348.3	347.9	347.0	346.2	342.8	341.4	340.1	338.0
57.5°	316.6	316.3	318.3	318.9	318.3	316.3	316.6	313.6	311.6	307.7	307.1
60°	295.8	295.8	299.2	300.5	299.2	295.8	295.8	292.4	289.3	286.8	286.0
62.5°	273.6	275.0	278.3	276.5	278.3	275.0	273.6	269.9	267.5	264.3	262.0
65°	241.2	244.6	244.2	245.8	244.2	244.6	241.2	239.0	234.3	231.3	228.8
67.5°	207.2	209.4	212.5	212.7	212.5	209.4	207.2	203.8	200.8	197.6	194.5
70°	184.4	186.5	188.3	189.5	188.3	186.5	184.4	181.0	177.6	175.5	172.0
72.5°	162.2	163.3	167.4	165.6	167.4	163.3	162.2	158.1	155.4	153.6	149.9
75°	127.2	130.2	132.7	131.4	132.7	130.2	127.2	124.2	122.1	119.5	116.1
77.5°	94.1	97.0	98.2	97.2	98.2	97.0	94.1	92.1	91.0	85.9	85.6
80°	74.3	73.9	76.4	76.0	76.4	73.9	74.3	71.3	69.1	66.1	66.1
82.5°	54.5	54.1	55.2	55.5	55.2	54.1	54.5	52.8	50.1	48.8	47.7
85°	26.5	27.7	26.0	25.6	26.0	27.7	26.5	24.8	24.8	24.8	24.3
87.5°	10.7	10.8	10.7	10.2	10.7	10.8	10.7	10.8	11.9	10.7	10.5
90°	22.7	23.6	24.4	23.6	24.4	23.6	22.7	23.6	22.0	21.2	20.4
92.5°	42.3	39.9	40.7	39.2	40.7	39.9	42.3	43.8	48.0	54.4	68.5
95°	110.7	103.4	97.7	94.4	97.7	103.4	110.7	126.1	155.5	198.6	292.9
97.5°	322.6	286.0	264.0	257.0	264.0	286.0	322.6	382.6	480.0	585.0	730.3
100°	600.6	541.2	509.5	510.3	509.5	541.2	600.6	682.8	798.3	893.6	959.5
102.5°	840.8	793.8	767.3	748.5	767.3	793.8	840.8	904.8	978.0	1033.6	1035.7
105°	1096.2	1065.3	1039.3	1035.2	1039.3	1065.3	1096.2	1133.7	1154.8	1139.4	1057.9
107.5°	1226.9	1216.5	1207.7	1200.2	1207.7	1216.5	1226.9	1226.3	1197.3	1126.0	993.8
110°	1264.7	1271.2	1269.6	1268.0	1269.6	1271.2	1264.7	1241.9	1184.9	1082.4	932.6



TEST NUMBER: P331984-930

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1254.9	1275.0	1281.2	1281.6	1281.2	1275.0	1254.9	1213.2	1140.0	1025.1	872.0
115°	1202.8	1238.6	1254.9	1259.0	1254.9	1238.6	1202.8	1141.7	1053.0	933.4	791.8
117.5°	1117.0	1158.1	1181.5	1187.0	1181.5	1158.1	1117.0	1053.4	963.4	856.0	733.8
120°	1057.1	1102.7	1122.3	1127.2	1122.3	1102.7	1057.1	992.9	910.7	813.0	703.1
122.5°	1002.5	1043.5	1064.9	1071.1	1064.9	1043.5	1002.5	945.3	869.0	778.5	679.1
125°	931.0	966.8	987.2	992.9	987.2	966.8	931.0	878.9	813.8	735.7	647.0
127.5°	874.2	904.8	923.2	928.4	923.2	904.8	874.2	827.8	768.6	698.1	619.0
130°	839.0	868.4	885.4	891.9	885.4	868.4	839.0	795.9	740.5	674.7	601.4
132.5°	807.1	836.4	851.6	856.1	851.6	836.4	807.1	766.6	713.9	652.5	585.1
135°	760.1	784.5	799.2	804.9	799.2	784.5	760.1	720.2	673.8	620.9	563.1
137.5°	709.8	734.6	746.9	750.6	746.9	734.6	709.8	676.3	636.1	590.5	543.2
140°	677.9	700.7	713.7	712.9	713.7	700.7	677.9	647.0	612.0	572.9	531.4
142.5°	646.7	666.8	678.6	677.8	678.6	666.8	646.7	620.3	589.9	556.0	520.3
145°	603.8	620.9	627.5	629.1	627.5	620.9	603.8	583.5	559.9	533.9	507.0
147.5°	570.6	582.2	588.4	589.1	588.4	582.2	570.6	555.2	538.4	517.4	496.1
150°	551.8	560.7	565.6	565.6	565.6	560.7	551.8	539.6	524.1	507.0	488.3
152.5°	534.8	543.2	546.1	546.1	546.1	543.2	534.8	525.2	512.4	497.3	481.1
155°	512.7	519.2	520.8	521.6	520.8	519.2	512.7	505.4	495.6	483.4	470.3
157.5°	493.3	498.2	499.5	499.4	499.5	498.2	493.3	487.0	479.3	469.9	459.0
160°	480.9	485.8	485.8	485.0	485.8	485.8	480.9	475.2	469.5	461.5	452.5
162.5°	468.6	472.8	472.8	472.0	472.8	472.8	468.6	464.9	459.8	452.3	444.7
165°	452.5	455.8	454.9	454.9	454.9	455.8	452.5	449.2	445.2	439.4	434.6
167.5°	437.2	439.4	438.6	438.6	438.6	439.4	437.2	435.7	432.8	429.5	425.7
170°	428.0	429.7	428.8	428.8	428.8	429.7	428.0	427.2	425.6	422.4	420.0
172.5°	420.3	421.9	420.4	419.8	420.4	421.9	420.3	420.1	419.1	416.5	414.7
175°	410.2	411.0	410.2	409.4	410.2	411.0	410.2	410.2	410.2	408.5	407.7
177.5°	404.0	404.6	403.3	403.3	403.3	404.6	404.0	404.6	404.6	404.0	403.3
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0



TEST NUMBER: P331984-930

CATALOG NUMBER: S123DIP-S775D1025U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	844.7	844.7	851.3	855.3	860.5	863.9	866.3	868.7	872.8	878.2	884.4
5°	796.5	798.2	807.6	816.9	825.9	833.6	840.0	847.7	857.0	868.6	881.4
7.5°	749.7	756.3	765.7	777.1	789.7	800.9	812.3	824.9	838.1	855.1	873.0
10°	719.7	726.9	738.4	752.9	766.1	779.3	793.4	807.1	823.8	843.8	866.9
12.5°	693.3	700.3	712.1	728.0	740.5	755.1	771.3	789.0	807.7	831.8	858.0
15°	656.9	665.0	679.5	687.2	706.4	723.9	738.8	764.4	788.3	813.1	843.4
17.5°	627.0	631.5	643.3	657.5	671.9	691.5	711.1	732.5	756.3	786.5	824.4
20°	606.5	610.3	623.1	638.1	653.5	671.4	688.9	710.2	737.1	769.2	810.1
22.5°	591.2	595.3	603.7	619.6	634.0	648.9	666.3	691.8	720.4	751.7	796.1
25°	568.9	571.5	577.1	589.9	602.7	619.3	634.7	658.6	688.0	724.7	769.2
27.5°	547.9	550.3	555.0	564.2	576.1	589.6	606.3	626.6	656.6	696.4	743.6
30°	535.2	535.7	540.0	548.5	558.7	569.8	585.1	608.2	636.4	676.9	726.4
32.5°	524.3	522.7	525.6	532.1	542.0	553.1	565.7	588.4	615.6	655.4	706.3
35°	505.8	504.9	503.7	509.2	517.7	526.3	537.4	554.5	585.1	622.3	675.6
37.5°	486.9	484.9	482.6	485.1	491.8	500.7	510.3	525.5	552.0	592.9	643.9
40°	473.0	471.2	469.9	469.0	475.1	483.6	490.8	505.3	530.1	568.9	619.3
42.5°	457.5	456.6	454.9	453.7	458.7	465.1	472.7	485.6	510.3	546.7	594.4
45°	432.8	431.9	431.1	430.2	433.3	439.2	445.2	454.5	475.9	511.4	554.5
47.5°	405.2	404.1	404.5	403.1	406.0	410.0	414.2	424.3	444.7	473.4	504.8
50°	385.4	385.0	385.0	385.0	385.9	390.5	394.4	402.1	420.9	449.5	472.1
52.5°	366.6	364.8	364.8	365.5	367.0	370.1	372.5	380.9	397.3	420.8	441.3
55°	337.2	333.8	332.9	333.8	335.1	337.6	340.1	347.0	361.1	378.6	390.5
57.5°	304.6	302.7	301.6	301.7	302.5	304.5	306.5	313.9	325.0	334.1	341.8
60°	281.7	282.6	278.8	279.6	279.6	281.3	284.3	288.9	298.3	304.8	312.4
62.5°	260.2	259.0	257.9	256.7	256.7	257.4	261.4	265.1	273.0	276.4	282.4
65°	226.7	226.7	224.0	224.9	225.3	222.4	224.5	228.8	233.9	235.2	240.8
67.5°	192.7	191.5	190.0	188.7	188.7	188.5	189.6	191.8	195.6	196.0	200.2
70°	169.4	168.6	168.2	166.9	165.2	167.3	166.0	168.2	170.3	170.7	173.3
72.5°	146.9	146.0	145.3	144.0	143.3	143.1	143.2	145.6	147.1	146.5	149.4
75°	114.8	114.0	113.1	111.0	111.0	109.7	110.1	111.9	113.6	112.3	114.8
77.5°	84.3	81.7	81.5	82.1	80.6	81.0	80.4	80.1	81.0	81.0	83.3
80°	64.9	61.9	62.8	62.3	61.9	61.5	60.6	61.1	61.5	61.9	63.2
82.5°	46.8	46.6	45.7	45.6	45.2	44.0	43.5	44.3	44.8	44.5	45.4
85°	23.9	22.6	23.5	23.1	23.5	23.1	21.8	21.8	22.6	22.2	23.1
87.5°	11.1	11.3	10.4	10.3	9.5	9.3	8.6	8.6	8.5	8.2	8.6
90°	19.6	20.4	17.9	15.5	13.0	10.6	9.0	7.3	4.9	3.3	1.6
92.5°	94.4	125.1	137.7	103.4	68.3	47.0	35.0	28.1	21.9	15.0	10.1
95°	391.4	482.6	429.7	296.2	175.0	105.8	74.0	52.9	39.1	30.1	27.6
97.5°	800.1	747.9	547.6	325.1	188.3	122.2	87.9	67.0	55.0	48.0	47.2
100°	931.0	770.7	520.8	306.8	186.4	129.4	97.7	78.1	66.8	61.1	60.3
102.5°	937.5	728.4	481.8	291.1	189.0	137.9	108.8	91.2	80.4	75.3	73.9
105°	887.9	654.3	433.7	280.0	196.2	152.2	126.9	111.5	101.7	96.9	94.4
107.5°	801.0	588.9	403.2	279.2	209.5	170.9	147.5	133.0	123.4	118.6	116.2
110°	746.2	551.8	391.4	282.4	220.5	183.9	161.1	147.3	138.4	134.3	131.8



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	698.7	527.0	384.9	288.9	231.6	197.6	175.5	161.6	152.7	148.6	146.2
115°	641.3	500.5	382.5	299.5	249.8	218.9	197.0	183.1	175.0	170.1	166.8
117.5°	606.6	484.9	383.9	313.5	269.2	238.6	218.3	202.8	195.3	191.3	187.5
120°	588.4	477.7	386.5	323.9	281.6	252.3	232.0	216.5	208.3	204.2	201.8
122.5°	573.4	473.1	391.1	333.7	294.6	266.0	244.3	229.5	220.7	216.6	214.2
125°	554.2	467.2	397.9	349.1	313.3	284.9	262.9	247.4	238.5	233.6	232.0
127.5°	537.3	464.2	405.8	361.8	329.6	302.1	280.1	263.0	253.9	247.9	245.5
130°	528.2	462.3	411.0	370.3	339.3	312.5	290.5	273.5	263.7	256.3	253.9
132.5°	519.7	461.6	414.9	378.1	347.8	321.6	300.3	283.2	271.5	263.5	260.4
135°	508.7	460.6	420.8	388.2	360.5	335.3	313.3	296.2	284.1	275.1	271.8
137.5°	499.0	458.9	424.6	395.7	369.3	345.0	324.7	307.8	294.7	286.0	282.6
140°	493.2	458.2	427.2	399.6	375.2	351.6	331.3	315.0	301.9	293.8	289.8
142.5°	488.0	456.9	429.2	403.5	379.8	356.8	337.7	321.5	309.7	300.9	297.5
145°	480.9	454.9	430.5	407.7	385.7	364.6	345.8	332.1	319.8	312.5	310.1
147.5°	474.1	451.8	430.5	410.3	390.6	371.3	355.3	341.9	331.4	324.2	322.8
150°	469.5	449.2	430.5	411.0	393.9	375.2	360.5	349.1	338.5	332.1	331.3
152.5°	464.4	446.0	428.5	412.3	395.8	379.8	365.7	355.6	346.3	339.8	339.7
155°	456.6	440.3	426.4	412.6	399.6	385.7	374.4	365.4	357.3	352.4	352.4
157.5°	447.8	435.2	423.7	413.4	401.7	390.6	381.8	374.2	367.0	363.1	362.5
160°	441.9	431.3	422.4	413.4	403.7	393.9	385.7	380.0	373.6	370.3	370.3
162.5°	436.0	427.4	419.8	412.8	404.3	395.8	389.0	383.9	378.8	376.2	376.2
165°	428.0	421.6	415.9	411.0	405.3	398.8	393.1	389.8	385.7	384.1	384.9
167.5°	420.4	415.7	412.0	409.7	405.1	400.4	396.8	394.5	391.4	390.6	391.6
170°	415.9	411.8	409.4	407.7	404.5	400.4	398.8	397.1	394.7	393.9	395.5
172.5°	411.3	408.5	407.4	407.1	404.5	401.0	400.1	399.1	397.3	397.1	398.1
175°	406.1	404.5	404.5	405.3	403.7	402.0	401.2	401.2	399.6	400.4	401.2
177.5°	402.7	402.0	402.7	404.0	402.7	402.0	402.0	402.0	401.4	402.0	402.7
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	886.4	888.1	894.0	898.1	902.8	905.6	908.2	910.4	913.1	913.7	923.7
5°	890.4	898.9	913.9	925.0	938.6	953.5	963.8	968.5	980.8	991.1	1011.5
7.5°	889.2	907.4	929.9	953.3	978.4	1001.7	1021.8	1045.7	1062.7	1088.3	1113.4
10°	888.2	912.6	941.6	971.4	1006.5	1038.9	1067.9	1100.3	1127.2	1162.7	1192.9
12.5°	885.2	914.6	954.9	990.3	1032.7	1077.5	1120.5	1162.1	1185.9	1245.0	1272.8
15°	877.6	912.6	963.0	1016.7	1075.1	1128.1	1182.8	1226.3	1296.7	1348.3	1381.2
17.5°	863.1	912.1	971.8	1036.7	1107.7	1177.5	1239.4	1305.5	1380.1	1442.7	1509.3
20°	856.2	910.0	976.6	1048.3	1122.1	1201.1	1271.5	1350.9	1432.4	1493.9	1579.2
22.5°	843.6	904.5	976.2	1056.1	1135.1	1216.8	1299.2	1379.2	1473.4	1558.1	1639.3
25°	822.9	891.2	965.5	1054.7	1147.3	1229.2	1327.9	1434.1	1532.3	1641.1	1722.2
27.5°	801.2	874.2	948.6	1031.5	1131.1	1228.4	1352.4	1472.5	1592.6	1686.5	1746.5
30°	784.5	855.3	932.2	1015.9	1114.4	1230.1	1368.8	1499.8	1616.8	1697.5	1731.2
32.5°	766.4	838.3	906.2	994.0	1099.1	1229.1	1379.1	1515.9	1618.2	1671.9	1665.3
35°	738.0	798.2	864.3	948.8	1072.6	1221.6	1385.0	1517.4	1580.1	1568.6	1481.5
37.5°	697.0	747.6	812.8	905.3	1041.9	1205.7	1373.1	1472.3	1468.3	1374.4	1248.3
40°	671.4	714.5	777.2	874.6	1018.0	1195.6	1354.3	1418.8	1364.2	1233.1	1082.0
42.5°	638.0	677.6	740.4	840.4	991.6	1174.7	1318.4	1337.2	1230.3	1079.5	940.9
45°	586.0	621.0	685.9	789.2	952.3	1129.4	1230.9	1185.3	1041.5	885.7	780.2
47.5°	530.3	566.6	629.1	735.2	895.2	1061.2	1109.5	1012.4	864.7	738.4	641.6
50°	495.1	530.1	591.2	698.3	856.6	1005.2	1025.2	899.8	764.0	653.1	573.6
52.5°	459.6	492.5	552.5	660.1	811.5	940.3	927.9	800.1	675.2	580.7	518.4
55°	406.8	437.9	495.1	595.8	733.7	835.7	790.9	668.9	565.6	492.1	444.7
57.5°	359.5	389.4	438.7	529.7	649.5	719.7	662.6	559.7	477.6	421.1	385.8
60°	327.3	353.8	400.8	485.3	589.5	642.8	586.4	495.5	426.4	381.2	349.6
62.5°	297.0	320.0	363.5	440.3	530.7	575.5	518.5	441.6	382.7	342.6	315.8
65°	250.9	271.9	310.3	370.1	444.3	474.2	425.1	362.8	317.2	287.2	269.3
67.5°	209.0	226.7	259.9	307.0	361.6	383.4	346.0	297.7	263.3	239.4	225.1
70°	181.0	196.3	222.4	262.9	312.4	329.1	294.1	254.4	229.2	210.0	196.7
72.5°	157.4	168.7	192.3	223.6	265.0	278.2	253.8	218.9	195.4	181.0	170.5
75°	119.9	129.3	144.7	169.9	198.4	206.2	187.8	166.0	150.3	140.0	131.9
77.5°	86.5	93.4	104.5	120.0	139.8	146.8	135.1	120.6	109.1	102.2	97.7
80°	65.3	70.8	80.2	93.0	105.0	108.8	102.0	90.9	82.8	79.0	75.1
82.5°	48.3	51.4	57.0	65.7	73.9	78.4	72.6	66.0	61.6	58.1	56.7
85°	24.3	26.0	28.6	32.0	37.1	38.8	36.7	35.0	32.4	30.3	30.3
87.5°	9.5	9.9	11.3	12.4	14.1	15.6	15.7	15.6	15.7	15.2	15.0
90°	3.3	4.9	7.3	9.0	10.6	13.0	15.5	17.9	20.4	19.6	20.4
92.5°	15.0	21.9	28.1	35.0	47.0	68.3	103.4	137.7	125.1	94.4	68.5
95°	30.1	39.1	52.9	74.0	105.8	175.0	296.2	429.7	482.6	391.4	292.9
97.5°	48.0	55.0	67.0	87.9	122.2	188.3	325.1	547.6	747.9	800.1	730.3
100°	61.1	66.8	78.1	97.7	129.4	186.4	306.8	520.8	770.7	931.0	959.5
102.5°	75.3	80.4	91.2	108.8	137.9	189.0	291.1	481.8	728.4	937.5	1035.7
105°	96.9	101.7	111.5	126.9	152.2	196.2	280.0	433.7	654.3	887.9	1057.9
107.5°	118.6	123.4	133.0	147.5	170.9	209.5	279.2	403.2	588.9	801.0	993.8
110°	134.3	138.4	147.3	161.1	183.9	220.5	282.4	391.4	551.8	746.2	932.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	148.6	152.7	161.6	175.5	197.6	231.6	288.9	384.9	527.0	698.7	872.0
115°	170.1	175.0	183.1	197.0	218.9	249.8	299.5	382.5	500.5	641.3	791.8
117.5°	191.3	195.3	202.8	218.3	238.6	269.2	313.5	383.9	484.9	606.6	733.8
120°	204.2	208.3	216.5	232.0	252.3	281.6	323.9	386.5	477.7	588.4	703.1
122.5°	216.6	220.7	229.5	244.3	266.0	294.6	333.7	391.1	473.1	573.4	679.1
125°	233.6	238.5	247.4	262.9	284.9	313.3	349.1	397.9	467.2	554.2	647.0
127.5°	247.9	253.9	263.0	280.1	302.1	329.6	361.8	405.8	464.2	537.3	619.0
130°	256.3	263.7	273.5	290.5	312.5	339.3	370.3	411.0	462.3	528.2	601.4
132.5°	263.5	271.5	283.2	300.3	321.6	347.8	378.1	414.9	461.6	519.7	585.1
135°	275.1	284.1	296.2	313.3	335.3	360.5	388.2	420.8	460.6	508.7	563.1
137.5°	286.0	294.7	307.8	324.7	345.0	369.3	395.7	424.6	458.9	499.0	543.2
140°	293.8	301.9	315.0	331.3	351.6	375.2	399.6	427.2	458.2	493.2	531.4
142.5°	300.9	309.7	321.5	337.7	356.8	379.8	403.5	429.2	456.9	488.0	520.3
145°	312.5	319.8	332.1	345.8	364.6	385.7	407.7	430.5	454.9	480.9	507.0
147.5°	324.2	331.4	341.9	355.3	371.3	390.6	410.3	430.5	451.8	474.1	496.1
150°	332.1	338.5	349.1	360.5	375.2	393.9	411.0	430.5	449.2	469.5	488.3
152.5°	339.8	346.3	355.6	365.7	379.8	395.8	412.3	428.5	446.0	464.4	481.1
155°	352.4	357.3	365.4	374.4	385.7	399.6	412.6	426.4	440.3	456.6	470.3
157.5°	363.1	367.0	374.2	381.8	390.6	401.7	413.4	423.7	435.2	447.8	459.0
160°	370.3	373.6	380.0	385.7	393.9	403.7	413.4	422.4	431.3	441.9	452.5
162.5°	376.2	378.8	383.9	389.0	395.8	404.3	412.8	419.8	427.4	436.0	444.7
165°	384.1	385.7	389.8	393.1	398.8	405.3	411.0	415.9	421.6	428.0	434.6
167.5°	390.6	391.4	394.5	396.8	400.4	405.1	409.7	412.0	415.7	420.4	425.7
170°	393.9	394.7	397.1	398.8	400.4	404.5	407.7	409.4	411.8	415.9	420.0
172.5°	397.1	397.3	399.1	400.1	401.0	404.5	407.1	407.4	408.5	411.3	414.7
175°	400.4	399.6	401.2	401.2	402.0	403.7	405.3	404.5	404.5	406.1	407.7
177.5°	402.0	401.4	402.0	402.0	402.0	402.7	404.0	402.7	402.0	402.7	403.3
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	927.1	927.4	931.2	933.9	932.5	934.3	934.9
5°	1012.8	1028.3	1036.3	1042.3	1042.8	1043.2	1046.6
7.5°	1134.5	1151.0	1163.0	1181.3	1186.7	1192.9	1191.2
10°	1223.3	1247.6	1268.5	1279.6	1291.6	1309.0	1295.0
12.5°	1306.3	1349.4	1381.2	1398.5	1409.7	1413.2	1406.3
15°	1443.1	1499.4	1529.7	1528.8	1567.3	1584.0	1557.9
17.5°	1568.6	1620.6	1662.2	1683.6	1715.6	1722.6	1719.4
20°	1645.4	1702.2	1734.6	1771.3	1788.0	1802.9	1805.5
22.5°	1711.6	1762.6	1797.4	1828.0	1841.9	1849.0	1853.3
25°	1779.9	1820.0	1840.9	1851.5	1855.4	1854.6	1849.0
27.5°	1775.2	1778.2	1755.2	1732.6	1712.4	1689.5	1681.7
30°	1729.1	1693.2	1629.2	1592.9	1539.5	1497.3	1514.3
32.5°	1607.9	1536.5	1464.6	1385.3	1319.6	1301.0	1282.1
35°	1372.2	1246.8	1173.4	1087.9	1053.9	1019.7	996.2
37.5°	1110.2	1013.1	926.0	870.2	836.0	814.4	802.7
40°	959.9	872.5	800.7	755.5	729.4	705.2	701.7
42.5°	840.1	758.7	704.7	668.7	643.8	633.4	625.9
45°	688.0	631.3	595.0	569.4	552.8	546.3	537.8
47.5°	582.4	542.3	515.0	497.6	485.0	480.3	479.6
50°	523.3	490.0	469.9	456.2	446.5	444.7	437.9
52.5°	478.9	450.0	434.4	422.5	415.4	410.6	408.5
55°	415.7	396.5	382.5	375.6	370.1	365.3	365.3
57.5°	363.7	347.7	338.3	332.6	330.8	327.5	325.4
60°	331.7	318.0	310.7	305.6	302.2	302.6	298.8
62.5°	300.2	291.4	284.5	279.3	275.2	275.3	275.6
65°	255.7	248.8	243.7	242.0	239.5	236.4	237.3
67.5°	216.6	210.3	206.3	203.3	202.5	200.9	203.3
70°	188.7	183.9	181.0	178.4	177.6	178.0	180.1
72.5°	163.1	159.7	157.8	156.5	154.7	154.7	156.2
75°	128.1	125.5	123.8	122.5	122.1	122.1	122.1
77.5°	94.1	93.5	92.7	90.8	90.9	91.4	91.5
80°	74.3	73.0	72.6	71.7	70.4	69.5	71.7
82.5°	55.5	54.2	53.8	53.6	51.6	51.4	53.2
85°	29.8	28.6	29.0	28.6	28.6	28.2	28.2
87.5°	14.8	14.7	14.6	14.8	14.6	14.4	15.0
90°	21.2	22.0	23.6	22.7	23.6	24.4	23.6
92.5°	54.4	48.0	43.8	42.3	39.9	40.7	39.2
95°	198.6	155.5	126.1	110.7	103.4	97.7	94.4
97.5°	585.0	480.0	382.6	322.6	286.0	264.0	257.0
100°	893.6	798.3	682.8	600.6	541.2	509.5	510.3
102.5°	1033.6	978.0	904.8	840.8	793.8	767.3	748.5
105°	1139.4	1154.8	1133.7	1096.2	1065.3	1039.3	1035.2
107.5°	1126.0	1197.3	1226.3	1226.9	1216.5	1207.7	1200.2
110°	1082.4	1184.9	1241.9	1264.7	1271.2	1269.6	1268.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1025.1	1140.0	1213.2	1254.9	1275.0	1281.2	1281.6
115°	933.4	1053.0	1141.7	1202.8	1238.6	1254.9	1259.0
117.5°	856.0	963.4	1053.4	1117.0	1158.1	1181.5	1187.0
120°	813.0	910.7	992.9	1057.1	1102.7	1122.3	1127.2
122.5°	778.5	869.0	945.3	1002.5	1043.5	1064.9	1071.1
125°	735.7	813.8	878.9	931.0	966.8	987.2	992.9
127.5°	698.1	768.6	827.8	874.2	904.8	923.2	928.4
130°	674.7	740.5	795.9	839.0	868.4	885.4	891.9
132.5°	652.5	713.9	766.6	807.1	836.4	851.6	856.1
135°	620.9	673.8	720.2	760.1	784.5	799.2	804.9
137.5°	590.5	636.1	676.3	709.8	734.6	746.9	750.6
140°	572.9	612.0	647.0	677.9	700.7	713.7	712.9
142.5°	556.0	589.9	620.3	646.7	666.8	678.6	677.8
145°	533.9	559.9	583.5	603.8	620.9	627.5	629.1
147.5°	517.4	538.4	555.2	570.6	582.2	588.4	589.1
150°	507.0	524.1	539.6	551.8	560.7	565.6	565.6
152.5°	497.3	512.4	525.2	534.8	543.2	546.1	546.1
155°	483.4	495.6	505.4	512.7	519.2	520.8	521.6
157.5°	469.9	479.3	487.0	493.3	498.2	499.5	499.4
160°	461.5	469.5	475.2	480.9	485.8	485.8	485.0
162.5°	452.3	459.8	464.9	468.6	472.8	472.8	472.0
165°	439.4	445.2	449.2	452.5	455.8	454.9	454.9
167.5°	429.5	432.8	435.7	437.2	439.4	438.6	438.6
170°	422.4	425.6	427.2	428.0	429.7	428.8	428.8
172.5°	416.5	419.1	420.1	420.3	421.9	420.4	419.8
175°	408.5	410.2	410.2	410.2	411.0	410.2	409.4
177.5°	404.0	404.6	404.6	404.0	404.6	403.3	403.3
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0

(END OF REPORT)