

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: P332479

Luminaire Tested: **S123RDIW-S1165D1030U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332479
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S1165D1030U835-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1030 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8148.5 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

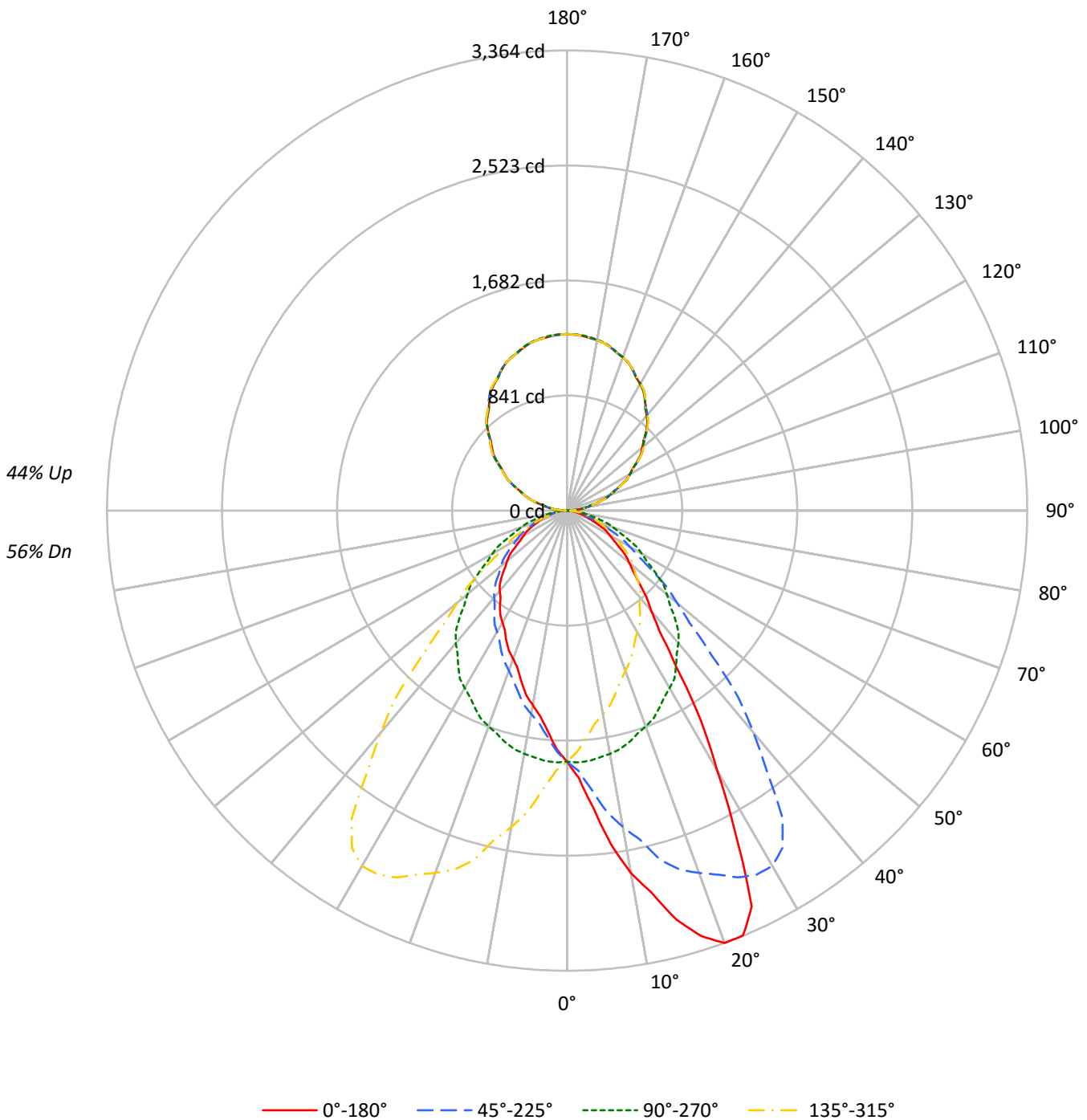
Input Watts (W): 67.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	100	96	92	89	93	89	86	83	77	75	73	66	64	63	56	54	53	49
2	91	84	78	74	85	79	74	69	68	64	61	59	56	53	50	48	46	42
3	84	75	68	62	78	70	64	59	61	56	52	52	49	46	45	42	40	36
4	77	67	59	53	71	62	56	50	54	49	45	47	43	40	40	37	35	32
5	71	60	52	46	66	56	49	44	49	44	39	43	38	35	37	33	31	28
6	66	54	46	40	61	51	43	38	44	39	35	39	34	31	33	30	27	25
7	61	49	41	36	57	46	39	34	41	35	31	35	31	28	31	27	25	22
8	57	44	37	32	53	42	35	30	37	32	28	33	28	25	28	25	22	20
9	53	41	33	28	49	38	32	27	34	29	25	30	26	22	26	23	20	18
10	49	37	30	26	46	35	29	25	32	26	22	28	23	20	24	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19763	19763	19763	19763
5°	23558	19847	17477	19847
10°	29415	19733	15789	19733
15°	34526	19531	14399	19531
20°	38533	19230	13216	19230
25°	37917	18912	12490	18912
30°	27256	18620	11742	18620
35°	18198	18239	11257	18239
40°	13408	17781	10756	17781
45°	11246	16978	10266	16978
50°	9923	15925	9582	15925
55°	8702	14720	8644	14720
60°	7750	13569	7918	13569
65°	6805	12332	7366	12332
70°	5344	11229	6729	11229
75°	4708	9807	6147	9807
80°	4091	8331	6044	8331
85°	3298	6694	6410	6694



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	2.2
10°-20°	564.1	6.9
20°-30°	886.2	10.9
30°-40°	924.6	11.3
40°-50°	791.2	9.7
50°-60°	603.1	7.4
60°-70°	386.5	4.7
70°-80°	186.0	2.3
80°-90°	53.0	0.7
90°-100°	84.0	1.0
100°-110°	251.5	3.1
110°-120°	427.7	5.2
120°-130°	562.6	6.9
130°-140°	632.3	7.8
140°-150°	621.6	7.6
150°-160°	523.3	6.4
160°-170°	348.3	4.3
170°-180°	122.0	1.5
0°-30°	1630.8	20.0
0°-40°	2555.4	31.4
0°-60°	3949.7	48.5
0°-90°	4575.2	56.1
90°-120°	763.2	9.4
90°-150°	2579.7	31.7
90°-180°	3573.0	43.8
0°-180°	8148.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1836	1836	1836	1836	1836	
5°	2180	1837	1618	1837	2180	225
15°	3098	1753	1292	1753	3098	879
25°	3193	1592	1052	1592	3193	1372
35°	1385	1388	857	1388	1385	908
45°	739	1115	674	1115	739	581
55°	464	784	461	784	464	419
65°	267	484	289	484	267	263
75°	113	236	148	236	113	121
85°	27	54	52	54	27	31
90°	30	1	30	1	30	16
95°	79	60	79	60	79	81
105°	241	228	241	228	241	256
115°	432	431	432	431	432	427
125°	623	630	623	630	623	557
135°	817	818	817	818	817	628
145°	992	992	992	992	992	619
155°	1134	1136	1134	1136	1134	522
165°	1233	1237	1233	1237	1233	348
175°	1282	1287	1282	1287	1282	122
180°	1290	1290	1290	1290	1290	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0
2.5°	1955.5	1958.0	1949.8	1948.6	1939.1	1936.6	1936.6	1923.4	1915.2	1904.6	1898.3
5°	2180.3	2192.9	2186.6	2172.4	2148.8	2143.3	2128.4	2104.8	2078.1	2045.1	2029.4
7.5°	2461.0	2478.2	2471.6	2449.7	2425.0	2405.1	2362.9	2323.8	2268.9	2220.8	2179.6
10°	2691.2	2673.1	2658.9	2637.7	2614.9	2578.0	2534.0	2473.4	2403.5	2348.5	2287.2
12.5°	2863.4	2860.5	2842.5	2820.7	2788.5	2753.4	2699.3	2625.6	2544.3	2464.8	2394.7
15°	3098.3	3103.0	3091.2	3068.4	3022.8	2960.7	2879.0	2848.4	2732.0	2645.6	2559.1
17.5°	3260.8	3259.9	3258.3	3226.7	3180.2	3136.0	3060.2	2979.6	2874.3	2752.5	2636.0
20°	3363.9	3356.1	3357.7	3322.3	3287.7	3236.6	3162.7	3045.6	2959.2	2818.5	2698.2
22.5°	3361.4	3359.9	3365.8	3353.7	3328.6	3289.4	3231.3	3132.4	3022.1	2880.1	2744.8
25°	3192.6	3186.3	3223.3	3233.5	3273.6	3280.6	3263.3	3209.1	3104.6	2958.4	2791.0
27.5°	2672.0	2668.5	2737.1	2822.9	2931.7	3016.2	3098.0	3137.4	3104.6	2999.9	2832.2
30°	2192.9	2266.7	2301.3	2425.5	2563.8	2728.9	2873.5	3011.0	3044.8	2999.3	2861.7
32.5°	1820.6	1885.1	1914.0	2020.6	2149.5	2342.8	2559.7	2754.5	2892.1	2926.9	2844.1
35°	1384.9	1385.7	1451.7	1498.8	1618.3	1817.2	2027.8	2288.7	2548.1	2744.6	2765.0
37.5°	1105.1	1109.0	1148.9	1195.9	1285.5	1390.7	1576.2	1793.1	2092.7	2394.4	2571.2
40°	954.2	961.2	991.1	1037.5	1101.9	1181.3	1325.9	1530.3	1780.2	2115.8	2390.1
42.5°	857.3	868.8	884.2	919.9	959.8	1034.2	1151.1	1309.0	1536.3	1853.6	2170.1
45°	738.8	745.1	756.9	773.4	809.5	861.4	940.0	1046.1	1234.8	1490.2	1806.9
47.5°	651.7	648.4	660.8	674.2	698.3	733.6	786.3	872.9	1007.5	1212.4	1481.1
50°	592.6	591.8	600.5	610.7	633.5	659.4	702.7	767.9	874.8	1044.6	1290.6
52.5°	537.3	540.3	546.4	559.1	575.6	596.6	635.4	682.4	774.2	920.7	1125.8
55°	463.7	466.1	474.7	481.8	493.6	514.8	539.2	578.5	641.4	743.5	912.5
57.5°	401.5	400.4	408.7	410.4	423.8	441.1	459.9	490.4	536.0	612.0	725.8
60°	360.0	357.6	364.7	370.2	377.3	391.4	407.1	437.0	473.2	529.0	626.4
62.5°	322.2	321.1	326.3	331.8	337.7	350.5	363.7	386.7	415.3	462.3	539.6
65°	267.2	269.6	271.9	274.3	277.4	285.3	297.9	313.6	333.3	366.3	422.1
67.5°	210.0	212.4	213.2	218.0	224.8	229.7	237.4	251.4	265.0	292.9	324.6
70°	169.8	169.0	169.8	172.1	180.8	189.4	199.6	209.9	218.5	238.1	264.9
72.5°	145.9	144.5	146.5	147.0	151.2	153.6	160.0	169.6	180.8	194.1	213.3
75°	113.2	113.2	113.2	113.2	116.3	117.9	120.3	122.6	126.5	132.8	147.0
77.5°	83.6	83.8	84.9	85.7	86.3	87.2	88.7	91.0	92.4	95.7	101.9
80°	66.0	66.8	66.0	66.8	66.8	68.4	69.2	71.5	72.3	76.2	78.6
82.5°	49.7	49.2	49.7	50.5	50.5	52.0	52.2	53.9	54.1	56.1	58.5
85°	26.7	25.2	26.7	25.9	27.5	25.9	26.7	28.3	28.3	29.1	32.2
87.5°	12.4	13.5	12.2	12.7	12.6	13.1	12.9	12.8	13.8	13.0	13.1
90°	30.4	29.9	29.5	29.0	28.6	27.9	27.0	26.1	25.2	24.3	21.4
92.5°	40.9	41.2	41.5	41.7	42.0	41.8	41.1	40.3	39.6	38.9	37.2
95°	79.0	79.0	79.0	79.0	79.0	78.6	77.7	76.8	75.9	75.0	73.2
97.5°	121.6	121.7	121.8	121.8	121.9	121.5	120.4	119.4	118.4	117.3	116.0
100°	154.0	153.5	153.1	152.6	152.2	151.6	151.0	150.3	149.6	148.9	147.8
102.5°	187.2	187.3	187.4	187.5	187.6	187.3	186.6	185.9	185.3	184.6	183.1
105°	241.1	240.7	240.2	239.8	239.3	239.1	239.1	239.1	239.1	239.1	237.1
107.5°	297.2	297.5	297.8	298.1	298.3	298.1	297.4	296.7	295.9	295.2	294.4
110°	335.3	335.8	336.2	336.7	337.1	336.9	336.0	335.1	334.2	333.3	332.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	375.9	376.0	376.0	376.1	376.2	375.7	374.6	373.6	372.5	371.4	371.3
115°	431.6	431.8	432.0	432.3	432.5	432.5	432.3	432.0	431.8	431.6	432.0
117.5°	488.1	488.7	489.4	490.0	490.6	491.0	491.0	491.1	491.1	491.2	491.7
120°	527.8	528.3	528.7	529.2	529.6	530.0	530.2	530.4	530.6	530.9	532.0
122.5°	565.9	566.6	567.2	567.8	568.4	569.1	569.6	570.2	570.8	571.4	572.0
125°	623.1	624.0	624.9	625.8	626.7	627.6	628.5	629.4	630.3	631.2	631.6
127.5°	680.0	681.0	682.1	683.1	684.1	685.3	686.6	687.8	689.1	690.3	690.8
130°	717.3	718.9	720.4	722.0	723.6	724.8	725.7	726.6	727.5	728.4	729.1
132.5°	756.2	757.4	758.6	759.8	761.1	762.2	763.3	764.4	765.4	766.5	767.0
135°	816.6	817.0	817.5	817.9	818.4	819.0	819.9	820.8	821.7	822.6	822.9
137.5°	869.9	870.7	871.6	872.4	873.3	874.2	875.1	876.1	877.0	878.0	877.4
140°	904.7	906.3	907.9	909.4	911.0	911.9	912.1	912.4	912.6	912.8	912.6
142.5°	940.4	941.6	942.8	944.0	945.2	946.0	946.2	946.4	946.6	946.9	946.5
145°	991.8	992.7	993.6	994.5	995.4	996.0	996.2	996.5	996.7	996.9	996.2
147.5°	1037.6	1039.0	1040.3	1041.7	1043.0	1043.7	1043.7	1043.7	1043.7	1043.7	1043.1
150°	1066.8	1068.2	1069.5	1070.9	1072.2	1072.9	1072.9	1072.9	1072.9	1072.9	1072.4
152.5°	1095.2	1096.3	1097.5	1098.7	1099.9	1100.3	1099.9	1099.5	1099.2	1098.8	1098.6
155°	1133.7	1135.3	1136.8	1138.4	1140.0	1140.3	1139.4	1138.5	1137.6	1136.7	1136.5
157.5°	1168.7	1170.0	1171.3	1172.5	1173.8	1173.9	1173.0	1172.0	1171.1	1170.1	1170.0
160°	1191.4	1192.3	1193.2	1194.1	1195.0	1194.9	1193.8	1192.7	1191.5	1190.4	1190.4
162.5°	1208.4	1209.9	1211.3	1212.8	1214.2	1214.4	1213.2	1212.1	1211.0	1209.9	1209.7
165°	1233.0	1234.5	1236.1	1237.7	1239.3	1239.4	1238.0	1236.7	1235.3	1234.0	1234.0
167.5°	1253.8	1255.2	1256.6	1258.0	1259.4	1259.4	1258.0	1256.6	1255.2	1253.8	1253.7
170°	1264.4	1265.9	1267.5	1269.1	1270.7	1270.7	1269.1	1267.5	1265.9	1264.4	1264.4
172.5°	1272.5	1274.0	1275.6	1277.2	1278.8	1278.9	1277.5	1276.1	1274.7	1273.3	1273.3
175°	1281.6	1283.2	1284.7	1286.3	1287.9	1288.0	1286.7	1285.3	1284.0	1282.6	1282.6
177.5°	1286.5	1287.7	1289.0	1290.2	1291.5	1291.6	1290.5	1289.4	1288.3	1287.3	1287.3
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0
2.5°	1895.8	1893.9	1885.1	1875.0	1861.8	1853.0	1846.1	1842.3	1831.0	1817.2	1807.7
5°	2012.9	1989.3	1964.1	1933.5	1905.2	1876.1	1858.0	1836.8	1810.9	1781.8	1761.4
7.5°	2138.3	2092.1	2042.3	1990.9	1940.1	1894.5	1854.3	1819.8	1778.5	1736.8	1707.6
10°	2234.5	2166.9	2097.0	2025.4	1960.2	1898.9	1851.7	1805.4	1755.9	1707.9	1671.8
12.5°	2321.9	2232.9	2152.3	2064.4	1981.0	1907.7	1839.8	1785.2	1725.7	1674.6	1633.4
15°	2432.6	2341.4	2243.9	2110.3	1999.5	1906.8	1824.2	1752.7	1680.4	1617.5	1577.4
17.5°	2536.0	2398.8	2267.8	2156.4	2012.4	1896.5	1795.8	1710.3	1630.9	1564.2	1514.9
20°	2578.8	2445.9	2303.7	2161.4	2019.9	1890.3	1773.1	1678.8	1596.3	1520.8	1475.3
22.5°	2604.5	2454.1	2304.3	2151.4	2001.1	1866.4	1750.5	1646.8	1557.3	1485.6	1429.4
25°	2634.6	2455.4	2290.3	2139.4	1986.1	1840.0	1702.4	1592.4	1495.7	1419.5	1359.7
27.5°	2654.4	2443.6	2248.5	2080.8	1925.3	1779.7	1653.7	1537.0	1439.0	1358.3	1294.2
30°	2658.1	2434.1	2216.4	2034.9	1876.9	1743.3	1609.7	1498.1	1394.3	1308.6	1248.9
32.5°	2663.2	2410.9	2173.0	1980.2	1818.4	1686.1	1565.0	1458.4	1352.2	1267.8	1206.8
35°	2642.4	2398.0	2107.2	1885.5	1723.6	1595.5	1486.3	1388.0	1283.5	1201.7	1139.7
37.5°	2553.1	2346.9	2039.0	1779.0	1609.7	1491.0	1402.0	1316.3	1220.5	1132.3	1073.8
40°	2463.2	2296.6	1986.1	1714.2	1537.4	1415.5	1335.4	1265.4	1172.7	1090.1	1027.3
42.5°	2329.3	2228.1	1935.8	1646.3	1455.6	1338.2	1270.6	1205.0	1123.6	1039.8	980.7
45°	2083.6	2097.0	1832.9	1538.1	1342.4	1224.5	1160.9	1115.3	1043.0	973.8	913.3
47.5°	1775.5	1900.5	1712.0	1422.9	1223.1	1112.5	1056.8	1017.0	968.3	900.4	845.2
50°	1574.3	1752.7	1615.2	1345.6	1148.3	1038.3	983.2	951.0	908.6	855.1	802.5
52.5°	1388.8	1580.4	1498.2	1259.4	1067.2	966.6	912.8	886.3	852.6	802.3	754.7
55°	1132.6	1326.7	1307.9	1129.4	945.5	855.1	814.3	784.4	761.6	723.9	686.2
57.5°	916.1	1100.2	1109.9	984.8	838.3	749.0	713.8	691.3	676.4	648.0	613.1
60°	779.7	948.7	981.7	887.4	761.6	683.0	648.4	630.3	618.6	595.8	569.0
62.5°	666.5	810.3	847.7	779.8	688.0	614.5	587.4	570.0	562.0	542.3	518.7
65°	510.1	629.6	665.7	628.0	580.0	521.1	499.1	484.2	477.1	466.1	448.8
67.5°	383.6	470.6	510.3	483.7	466.4	429.1	415.1	407.1	400.8	393.3	378.8
70°	308.1	372.5	413.4	406.3	392.2	372.5	362.3	356.8	350.5	344.3	331.7
72.5°	247.7	292.1	330.4	334.0	322.4	318.5	309.5	307.2	303.4	295.8	288.9
75°	164.3	194.9	221.6	231.9	236.6	240.5	236.6	235.8	235.0	228.7	224.8
77.5°	107.7	124.2	141.0	158.5	165.8	171.2	172.4	175.3	173.2	169.9	168.0
80°	82.5	86.5	98.2	113.2	125.0	129.7	132.8	134.4	133.6	132.8	129.7
82.5°	59.9	63.2	68.7	79.2	89.1	97.0	98.9	98.6	100.3	100.8	98.2
85°	32.2	33.0	34.6	36.2	41.7	50.3	52.7	54.2	55.8	55.8	51.1
87.5°	13.8	12.5	13.2	12.7	14.1	14.3	17.6	20.3	21.4	19.3	19.8
90°	18.5	15.5	12.6	10.0	7.8	5.5	3.3	1.0	3.3	5.5	7.8
92.5°	35.6	33.9	32.2	30.6	29.1	27.6	26.0	24.5	26.0	27.6	29.1
95°	71.4	69.6	67.8	66.1	64.5	62.9	61.3	59.8	61.3	62.9	64.5
97.5°	114.7	113.4	112.1	110.9	109.7	108.5	107.3	106.2	107.3	108.5	109.7
100°	146.7	145.6	144.4	143.2	141.8	140.5	139.1	137.8	139.1	140.5	141.8
102.5°	181.6	180.1	178.6	177.5	176.7	175.9	175.1	174.3	175.1	175.9	176.7
105°	235.0	233.0	231.0	229.8	229.3	228.9	228.4	228.0	228.4	228.9	229.3
107.5°	293.6	292.8	292.0	291.4	291.2	290.9	290.6	290.4	290.6	290.9	291.2
110°	332.4	332.0	331.5	331.1	330.6	330.2	329.7	329.3	329.7	330.2	330.6



TEST NUMBER: P332479

CATALOG NUMBER: S123RDIW-S1165D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	371.2	371.1	371.0	370.9	370.6	370.3	370.1	369.8	370.1	370.3	370.6
115°	432.5	432.9	433.4	433.3	432.6	431.9	431.2	430.6	431.2	431.9	432.6
117.5°	492.3	492.9	493.5	493.6	493.1	492.7	492.2	491.8	492.2	492.7	493.1
120°	533.1	534.2	535.4	535.3	533.9	532.6	531.2	529.9	531.2	532.6	533.9
122.5°	572.6	573.2	573.7	573.5	572.5	571.6	570.6	569.6	570.6	571.6	572.5
125°	632.1	632.5	633.0	632.9	632.2	631.5	630.8	630.2	630.8	631.5	632.2
127.5°	691.3	691.8	692.3	691.8	690.4	689.0	687.5	686.1	687.5	689.0	690.4
130°	729.8	730.5	731.1	730.6	728.8	727.0	725.2	723.4	725.2	727.0	728.8
132.5°	767.5	768.0	768.5	767.9	766.1	764.2	762.4	760.6	762.4	764.2	766.1
135°	823.1	823.3	823.5	823.0	821.6	820.3	818.9	817.6	818.9	820.3	821.6
137.5°	876.8	876.2	875.6	874.8	873.6	872.5	871.4	870.3	871.4	872.5	873.6
140°	912.4	912.1	911.9	911.2	910.1	909.0	907.9	906.7	907.9	909.0	910.1
142.5°	946.0	945.6	945.2	944.5	943.3	942.2	941.1	940.0	941.1	942.2	943.3
145°	995.6	994.9	994.2	993.6	993.2	992.7	992.3	991.8	992.3	992.7	993.2
147.5°	1042.5	1041.8	1041.2	1040.5	1039.7	1038.8	1038.0	1037.2	1038.0	1038.8	1039.7
150°	1072.0	1071.5	1071.1	1070.6	1070.2	1069.7	1069.3	1068.8	1069.3	1069.7	1070.2
152.5°	1098.3	1098.0	1097.7	1097.3	1096.7	1096.0	1095.4	1094.8	1095.4	1096.0	1096.7
155°	1136.3	1136.0	1135.8	1135.7	1135.7	1135.7	1135.7	1135.7	1135.7	1135.7	1135.7
157.5°	1169.8	1169.6	1169.4	1169.5	1169.7	1170.0	1170.3	1170.6	1170.3	1170.0	1169.7
160°	1190.4	1190.4	1190.4	1190.6	1191.1	1191.5	1192.0	1192.4	1192.0	1191.5	1191.1
162.5°	1209.5	1209.3	1209.1	1209.4	1210.0	1210.6	1211.3	1211.9	1211.3	1210.6	1210.0
165°	1234.0	1234.0	1234.0	1234.3	1235.0	1235.7	1236.3	1237.0	1236.3	1235.7	1235.0
167.5°	1253.5	1253.3	1253.1	1253.5	1254.4	1255.3	1256.2	1257.1	1256.2	1255.3	1254.4
170°	1264.4	1264.4	1264.4	1264.8	1265.7	1266.6	1267.5	1268.4	1267.5	1266.6	1265.7
172.5°	1273.3	1273.3	1273.3	1273.7	1274.6	1275.5	1276.4	1277.3	1276.4	1275.5	1274.6
175°	1282.6	1282.6	1282.6	1283.1	1284.0	1284.9	1285.8	1286.7	1285.8	1284.9	1284.0
177.5°	1287.3	1287.3	1287.3	1287.6	1288.3	1289.1	1289.8	1290.5	1289.8	1289.1	1288.3
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7



TEST NUMBER: P332479

CATALOG NUMBER: S123RDIW-S1165D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0
2.5°	1804.6	1796.4	1790.8	1778.2	1770.0	1761.2	1752.4	1758.1	1757.4	1756.8	1756.8
5°	1744.1	1726.0	1709.5	1688.3	1674.9	1658.4	1645.8	1644.2	1647.4	1636.4	1630.1
7.5°	1684.0	1659.3	1635.9	1612.5	1587.7	1567.9	1555.4	1549.6	1541.6	1534.8	1527.8
10°	1641.9	1612.8	1590.0	1560.9	1534.2	1510.6	1495.7	1485.5	1480.0	1474.5	1464.3
12.5°	1598.5	1570.1	1541.0	1508.1	1482.7	1455.3	1444.1	1432.7	1422.1	1416.0	1402.0
15°	1535.0	1498.1	1467.4	1432.8	1404.5	1377.8	1362.1	1339.3	1336.1	1328.3	1314.1
17.5°	1471.3	1431.2	1389.0	1363.3	1331.4	1303.6	1279.7	1272.0	1249.5	1241.0	1228.8
20°	1421.0	1384.1	1351.9	1318.1	1271.7	1245.8	1226.9	1216.7	1198.6	1187.6	1179.7
22.5°	1377.6	1340.1	1302.8	1263.4	1225.2	1196.1	1182.3	1166.4	1156.5	1141.1	1132.6
25°	1315.7	1274.8	1230.0	1187.6	1160.1	1138.1	1116.1	1101.9	1087.8	1080.7	1065.0
27.5°	1243.7	1201.0	1159.1	1126.9	1093.1	1071.4	1051.5	1038.9	1021.9	1010.0	1001.3
30°	1204.1	1153.8	1117.6	1088.6	1045.3	1024.9	1010.0	994.3	981.7	969.1	960.5
32.5°	1158.2	1112.3	1078.0	1042.0	1008.9	986.5	967.2	953.4	942.7	930.7	922.1
35°	1086.2	1047.7	1012.3	976.2	951.8	929.0	906.2	894.4	884.2	873.2	865.4
37.5°	1021.1	985.1	951.5	917.2	887.0	868.5	850.1	841.1	827.3	819.9	811.9
40°	980.9	945.5	909.4	876.4	844.9	830.8	814.3	800.9	788.3	782.8	774.2
42.5°	936.9	901.5	871.0	835.5	809.7	790.5	775.3	760.7	751.2	743.2	738.3
45°	871.6	840.2	810.3	775.0	750.6	734.1	716.8	703.4	694.8	689.3	680.6
47.5°	808.3	776.9	746.5	715.7	692.1	673.3	656.0	646.7	635.2	628.5	622.6
50°	762.4	734.1	701.9	673.6	650.0	631.1	617.0	605.2	595.0	586.3	582.4
52.5°	720.3	690.1	662.3	635.8	611.0	589.6	576.7	564.3	556.6	546.7	542.2
55°	650.8	621.7	598.1	572.2	547.8	529.7	514.0	503.0	495.2	484.2	477.9
57.5°	585.5	559.5	531.3	508.8	483.7	468.4	455.4	440.5	430.9	422.2	416.1
60°	541.5	511.7	487.3	466.1	444.1	424.4	412.6	400.8	390.6	382.0	376.5
62.5°	495.6	469.5	446.4	423.3	403.2	386.1	372.4	362.5	353.5	348.0	342.5
65°	425.2	404.8	381.2	362.3	343.5	330.9	319.9	311.2	305.0	301.0	296.3
67.5°	360.4	340.6	320.0	301.5	288.9	279.3	272.1	264.7	261.6	256.5	253.4
70°	318.3	297.9	279.8	265.7	253.1	246.0	241.3	235.8	232.6	226.4	223.2
72.5°	272.4	257.6	244.6	233.0	222.9	216.5	210.5	203.7	198.7	191.8	188.6
75°	214.6	201.2	191.0	183.1	176.8	168.2	159.6	152.5	150.1	147.8	147.0
77.5°	158.9	150.4	143.0	136.4	128.6	122.3	120.4	118.8	118.4	117.1	117.1
80°	125.0	117.1	111.6	103.7	99.0	99.0	99.0	97.5	98.2	98.2	98.2
82.5°	92.9	85.7	82.7	79.9	78.9	79.5	79.5	79.9	79.4	80.6	80.0
85°	47.9	48.7	50.3	49.5	50.3	50.3	51.9	51.1	51.9	50.3	51.9
87.5°	19.6	22.0	23.2	24.4	25.7	25.6	26.4	26.6	27.4	27.6	27.7
90°	10.0	12.6	15.5	18.5	21.4	24.3	25.2	26.1	27.0	27.9	28.6
92.5°	30.6	32.2	33.9	35.6	37.2	38.9	39.6	40.3	41.1	41.8	42.0
95°	66.1	67.8	69.6	71.4	73.2	75.0	75.9	76.8	77.7	78.6	79.0
97.5°	110.9	112.1	113.4	114.7	116.0	117.3	118.4	119.4	120.4	121.5	121.9
100°	143.2	144.4	145.6	146.7	147.8	148.9	149.6	150.3	151.0	151.6	152.2
102.5°	177.5	178.6	180.1	181.6	183.1	184.6	185.3	185.9	186.6	187.3	187.6
105°	229.8	231.0	233.0	235.0	237.1	239.1	239.1	239.1	239.1	239.1	239.3
107.5°	291.4	292.0	292.8	293.6	294.4	295.2	295.9	296.7	297.4	298.1	298.3
110°	331.1	331.5	332.0	332.4	332.9	333.3	334.2	335.1	336.0	336.9	337.1



TEST NUMBER: P332479

CATALOG NUMBER: S123RDIW-S1165D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	370.9	371.0	371.1	371.2	371.3	371.4	372.5	373.6	374.6	375.7	376.2
115°	433.3	433.4	432.9	432.5	432.0	431.6	431.8	432.0	432.3	432.5	432.5
117.5°	493.6	493.5	492.9	492.3	491.7	491.2	491.1	491.1	491.0	491.0	490.6
120°	535.3	535.4	534.2	533.1	532.0	530.9	530.6	530.4	530.2	530.0	529.6
122.5°	573.5	573.7	573.2	572.6	572.0	571.4	570.8	570.2	569.6	569.1	568.4
125°	632.9	633.0	632.5	632.1	631.6	631.2	630.3	629.4	628.5	627.6	626.7
127.5°	691.8	692.3	691.8	691.3	690.8	690.3	689.1	687.8	686.6	685.3	684.1
130°	730.6	731.1	730.5	729.8	729.1	728.4	727.5	726.6	725.7	724.8	723.6
132.5°	767.9	768.5	768.0	767.5	767.0	766.5	765.4	764.4	763.3	762.2	761.1
135°	823.0	823.5	823.3	823.1	822.9	822.6	821.7	820.8	819.9	819.0	818.4
137.5°	874.8	875.6	876.2	876.8	877.4	878.0	877.0	876.1	875.1	874.2	873.3
140°	911.2	911.9	912.1	912.4	912.6	912.8	912.6	912.4	912.1	911.9	911.0
142.5°	944.5	945.2	945.6	946.0	946.5	946.9	946.6	946.4	946.2	946.0	945.2
145°	993.6	994.2	994.9	995.6	996.2	996.9	996.7	996.5	996.2	996.0	995.4
147.5°	1040.5	1041.2	1041.8	1042.5	1043.1	1043.7	1043.7	1043.7	1043.7	1043.7	1043.0
150°	1070.6	1071.1	1071.5	1072.0	1072.4	1072.9	1072.9	1072.9	1072.9	1072.9	1072.2
152.5°	1097.3	1097.7	1098.0	1098.3	1098.6	1098.8	1099.2	1099.5	1099.9	1100.3	1099.9
155°	1135.7	1135.8	1136.0	1136.3	1136.5	1136.7	1137.6	1138.5	1139.4	1140.3	1140.0
157.5°	1169.5	1169.4	1169.6	1169.8	1170.0	1170.1	1171.1	1172.0	1173.0	1173.9	1173.8
160°	1190.6	1190.4	1190.4	1190.4	1190.4	1190.4	1191.5	1192.7	1193.8	1194.9	1195.0
162.5°	1209.4	1209.1	1209.3	1209.5	1209.7	1209.9	1211.0	1212.1	1213.2	1214.4	1214.2
165°	1234.3	1234.0	1234.0	1234.0	1234.0	1234.0	1235.3	1236.7	1238.0	1239.4	1239.3
167.5°	1253.5	1253.1	1253.3	1253.5	1253.7	1253.8	1255.2	1256.6	1258.0	1259.4	1259.4
170°	1264.8	1264.4	1264.4	1264.4	1264.4	1264.4	1265.9	1267.5	1269.1	1270.7	1270.7
172.5°	1273.7	1273.3	1273.3	1273.3	1273.3	1273.3	1274.7	1276.1	1277.5	1278.9	1278.8
175°	1283.1	1282.6	1282.6	1282.6	1282.6	1282.6	1284.0	1285.3	1286.7	1288.0	1287.9
177.5°	1287.6	1287.3	1287.3	1287.3	1287.3	1287.3	1288.3	1289.4	1290.5	1291.6	1291.5
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7



TEST NUMBER: P332479

CATALOG NUMBER: S123RDIW-S1165D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0
2.5°	1749.3	1748.6	1749.3	1746.7	1749.3	1748.6	1749.3	1756.8	1756.8	1757.4	1758.1
5°	1627.7	1627.0	1624.6	1617.5	1624.6	1627.0	1627.7	1630.1	1636.4	1647.4	1644.2
7.5°	1521.6	1520.5	1513.6	1513.8	1513.6	1520.5	1521.6	1527.8	1534.8	1541.6	1549.6
10°	1458.8	1459.5	1450.1	1444.6	1450.1	1459.5	1458.8	1464.3	1474.5	1480.0	1485.5
12.5°	1397.8	1394.2	1386.6	1380.5	1386.6	1394.2	1397.8	1402.0	1416.0	1422.1	1432.7
15°	1317.3	1309.4	1290.6	1292.1	1290.6	1309.4	1317.3	1314.1	1328.3	1336.1	1339.3
17.5°	1222.5	1216.7	1216.4	1205.4	1216.4	1216.7	1222.5	1228.8	1241.0	1249.5	1272.0
20°	1167.2	1163.2	1164.8	1153.8	1164.8	1163.2	1167.2	1179.7	1187.6	1198.6	1216.7
22.5°	1123.8	1119.8	1113.2	1109.8	1113.2	1119.8	1123.8	1132.6	1141.1	1156.5	1166.4
25°	1060.3	1054.0	1047.7	1051.6	1047.7	1054.0	1060.3	1065.0	1080.7	1087.8	1101.9
27.5°	996.8	992.1	985.8	985.0	985.8	992.1	996.8	1001.3	1010.0	1021.9	1038.9
30°	956.5	951.8	948.7	944.7	948.7	951.8	956.5	960.5	969.1	981.7	994.3
32.5°	915.7	914.7	909.1	908.3	909.1	914.7	915.7	922.1	930.7	942.7	953.4
35°	862.2	857.5	855.9	856.7	855.9	857.5	862.2	865.4	873.2	884.2	894.4
37.5°	811.4	805.1	802.3	799.5	802.3	805.1	811.4	811.9	819.9	827.3	841.1
40°	775.0	768.7	767.1	765.5	767.1	768.7	775.0	774.2	782.8	788.3	800.9
42.5°	734.1	731.6	730.6	727.8	730.6	731.6	734.1	738.3	743.2	751.2	760.7
45°	678.3	677.5	672.8	674.4	672.8	677.5	678.3	680.6	689.3	694.8	703.4
47.5°	619.5	616.0	612.7	614.9	612.7	616.0	619.5	622.6	628.5	635.2	646.7
50°	579.3	577.7	570.6	572.2	570.6	577.7	579.3	582.4	586.3	595.0	605.2
52.5°	539.0	533.0	530.4	529.4	530.4	533.0	539.0	542.2	546.7	556.6	564.3
55°	472.4	465.3	462.1	460.6	462.1	465.3	472.4	477.9	484.2	495.2	503.0
57.5°	407.0	405.1	402.6	404.3	402.6	405.1	407.0	416.1	422.2	430.9	440.5
60°	368.6	368.6	368.6	367.8	368.6	368.6	368.6	376.5	382.0	390.6	400.8
62.5°	339.1	337.2	336.6	337.7	336.6	337.2	339.1	342.5	348.0	353.5	362.5
65°	294.0	293.2	290.0	289.2	290.0	293.2	294.0	296.3	301.0	305.0	311.2
67.5°	251.4	248.5	247.6	246.5	247.6	248.5	251.4	253.4	256.5	261.6	264.7
70°	219.3	217.7	213.0	213.8	213.0	217.7	219.3	223.2	226.4	232.6	235.8
72.5°	184.7	183.1	182.2	181.1	182.2	183.1	184.7	188.6	191.8	198.7	203.7
75°	146.2	145.4	144.6	147.8	144.6	145.4	146.2	147.0	147.8	150.1	152.5
77.5°	117.1	117.1	117.6	116.3	117.6	117.1	117.1	117.1	117.1	118.4	118.8
80°	98.2	98.2	97.5	97.5	97.5	98.2	98.2	98.2	98.2	98.2	97.5
82.5°	78.8	79.4	79.9	78.6	79.9	79.4	78.8	80.0	80.6	79.4	79.9
85°	51.9	51.1	52.7	51.9	52.7	51.1	51.9	51.9	50.3	51.9	51.1
87.5°	29.1	27.9	28.0	28.7	28.0	27.9	29.1	27.7	27.6	27.4	26.6
90°	29.0	29.5	29.9	30.4	29.9	29.5	29.0	28.6	27.9	27.0	26.1
92.5°	41.7	41.5	41.2	40.9	41.2	41.5	41.7	42.0	41.8	41.1	40.3
95°	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	78.6	77.7	76.8
97.5°	121.8	121.8	121.7	121.6	121.7	121.8	121.8	121.9	121.5	120.4	119.4
100°	152.6	153.1	153.5	154.0	153.5	153.1	152.6	152.2	151.6	151.0	150.3
102.5°	187.5	187.4	187.3	187.2	187.3	187.4	187.5	187.6	187.3	186.6	185.9
105°	239.8	240.2	240.7	241.1	240.7	240.2	239.8	239.3	239.1	239.1	239.1
107.5°	298.1	297.8	297.5	297.2	297.5	297.8	298.1	298.3	298.1	297.4	296.7
110°	336.7	336.2	335.8	335.3	335.8	336.2	336.7	337.1	336.9	336.0	335.1



TEST NUMBER: P332479

CATALOG NUMBER: S123RDIW-S1165D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	376.1	376.0	376.0	375.9	376.0	376.0	376.1	376.2	375.7	374.6	373.6
115°	432.3	432.0	431.8	431.6	431.8	432.0	432.3	432.5	432.5	432.3	432.0
117.5°	490.0	489.4	488.7	488.1	488.7	489.4	490.0	490.6	491.0	491.0	491.1
120°	529.2	528.7	528.3	527.8	528.3	528.7	529.2	529.6	530.0	530.2	530.4
122.5°	567.8	567.2	566.6	565.9	566.6	567.2	567.8	568.4	569.1	569.6	570.2
125°	625.8	624.9	624.0	623.1	624.0	624.9	625.8	626.7	627.6	628.5	629.4
127.5°	683.1	682.1	681.0	680.0	681.0	682.1	683.1	684.1	685.3	686.6	687.8
130°	722.0	720.4	718.9	717.3	718.9	720.4	722.0	723.6	724.8	725.7	726.6
132.5°	759.8	758.6	757.4	756.2	757.4	758.6	759.8	761.1	762.2	763.3	764.4
135°	817.9	817.5	817.0	816.6	817.0	817.5	817.9	818.4	819.0	819.9	820.8
137.5°	872.4	871.6	870.7	869.9	870.7	871.6	872.4	873.3	874.2	875.1	876.1
140°	909.4	907.9	906.3	904.7	906.3	907.9	909.4	911.0	911.9	912.1	912.4
142.5°	944.0	942.8	941.6	940.4	941.6	942.8	944.0	945.2	946.0	946.2	946.4
145°	994.5	993.6	992.7	991.8	992.7	993.6	994.5	995.4	996.0	996.2	996.5
147.5°	1041.7	1040.3	1039.0	1037.6	1039.0	1040.3	1041.7	1043.0	1043.7	1043.7	1043.7
150°	1070.9	1069.5	1068.2	1066.8	1068.2	1069.5	1070.9	1072.2	1072.9	1072.9	1072.9
152.5°	1098.7	1097.5	1096.3	1095.2	1096.3	1097.5	1098.7	1099.9	1100.3	1099.9	1099.5
155°	1138.4	1136.8	1135.3	1133.7	1135.3	1136.8	1138.4	1140.0	1140.3	1139.4	1138.5
157.5°	1172.5	1171.3	1170.0	1168.7	1170.0	1171.3	1172.5	1173.8	1173.9	1173.0	1172.0
160°	1194.1	1193.2	1192.3	1191.4	1192.3	1193.2	1194.1	1195.0	1194.9	1193.8	1192.7
162.5°	1212.8	1211.3	1209.9	1208.4	1209.9	1211.3	1212.8	1214.2	1214.4	1213.2	1212.1
165°	1237.7	1236.1	1234.5	1233.0	1234.5	1236.1	1237.7	1239.3	1239.4	1238.0	1236.7
167.5°	1258.0	1256.6	1255.2	1253.8	1255.2	1256.6	1258.0	1259.4	1259.4	1258.0	1256.6
170°	1269.1	1267.5	1265.9	1264.4	1265.9	1267.5	1269.1	1270.7	1270.7	1269.1	1267.5
172.5°	1277.2	1275.6	1274.0	1272.5	1274.0	1275.6	1277.2	1278.8	1278.9	1277.5	1276.1
175°	1286.3	1284.7	1283.2	1281.6	1283.2	1284.7	1286.3	1287.9	1288.0	1286.7	1285.3
177.5°	1290.2	1289.0	1287.7	1286.5	1287.7	1289.0	1290.2	1291.5	1291.6	1290.5	1289.4
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7



TEST NUMBER: P332479

CATALOG NUMBER: S123RDIW-S1165D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0
2.5°	1752.4	1761.2	1770.0	1778.2	1790.8	1796.4	1804.6	1807.7	1817.2	1831.0	1842.3
5°	1645.8	1658.4	1674.9	1688.3	1709.5	1726.0	1744.1	1761.4	1781.8	1810.9	1836.8
7.5°	1555.4	1567.9	1587.7	1612.5	1635.9	1659.3	1684.0	1707.6	1736.8	1778.5	1819.8
10°	1495.7	1510.6	1534.2	1560.9	1590.0	1612.8	1641.9	1671.8	1707.9	1755.9	1805.4
12.5°	1444.1	1455.3	1482.7	1508.1	1541.0	1570.1	1598.5	1633.4	1674.6	1725.7	1785.2
15°	1362.1	1377.8	1404.5	1432.8	1467.4	1498.1	1535.0	1577.4	1617.5	1680.4	1752.7
17.5°	1279.7	1303.6	1331.4	1363.3	1389.0	1431.2	1471.3	1514.9	1564.2	1630.9	1710.3
20°	1226.9	1245.8	1271.7	1318.1	1351.9	1384.1	1421.0	1475.3	1520.8	1596.3	1678.8
22.5°	1182.3	1196.1	1225.2	1263.4	1302.8	1340.1	1377.6	1429.4	1485.6	1557.3	1646.8
25°	1116.1	1138.1	1160.1	1187.6	1230.0	1274.8	1315.7	1359.7	1419.5	1495.7	1592.4
27.5°	1051.5	1071.4	1093.1	1126.9	1159.1	1201.0	1243.7	1294.2	1358.3	1439.0	1537.0
30°	1010.0	1024.9	1045.3	1088.6	1117.6	1153.8	1204.1	1248.9	1308.6	1394.3	1498.1
32.5°	967.2	986.5	1008.9	1042.0	1078.0	1112.3	1158.2	1206.8	1267.8	1352.2	1458.4
35°	906.2	929.0	951.8	976.2	1012.3	1047.7	1086.2	1139.7	1201.7	1283.5	1388.0
37.5°	850.1	868.5	887.0	917.2	951.5	985.1	1021.1	1073.8	1132.3	1220.5	1316.3
40°	814.3	830.8	844.9	876.4	909.4	945.5	980.9	1027.3	1090.1	1172.7	1265.4
42.5°	775.3	790.5	809.7	835.5	871.0	901.5	936.9	980.7	1039.8	1123.6	1205.0
45°	716.8	734.1	750.6	775.0	810.3	840.2	871.6	913.3	973.8	1043.0	1115.3
47.5°	656.0	673.3	692.1	715.7	746.5	776.9	808.3	845.2	900.4	968.3	1017.0
50°	617.0	631.1	650.0	673.6	701.9	734.1	762.4	802.5	855.1	908.6	951.0
52.5°	576.7	589.6	611.0	635.8	662.3	690.1	720.3	754.7	802.3	852.6	886.3
55°	514.0	529.7	547.8	572.2	598.1	621.7	650.8	686.2	723.9	761.6	784.4
57.5°	455.4	468.4	483.7	508.8	531.3	559.5	585.5	613.1	648.0	676.4	691.3
60°	412.6	424.4	444.1	466.1	487.3	511.7	541.5	569.0	595.8	618.6	630.3
62.5°	372.4	386.1	403.2	423.3	446.4	469.5	495.6	518.7	542.3	562.0	570.0
65°	319.9	330.9	343.5	362.3	381.2	404.8	425.2	448.8	466.1	477.1	484.2
67.5°	272.1	279.3	288.9	301.5	320.0	340.6	360.4	378.8	393.3	400.8	407.1
70°	241.3	246.0	253.1	265.7	279.8	297.9	318.3	331.7	344.3	350.5	356.8
72.5°	210.5	216.5	222.9	233.0	244.6	257.6	272.4	288.9	295.8	303.4	307.2
75°	159.6	168.2	176.8	183.1	191.0	201.2	214.6	224.8	228.7	235.0	235.8
77.5°	120.4	122.3	128.6	136.4	143.0	150.4	158.9	168.0	169.9	173.2	175.3
80°	99.0	99.0	99.0	103.7	111.6	117.1	125.0	129.7	132.8	133.6	134.4
82.5°	79.5	79.5	78.9	79.9	82.7	85.7	92.9	98.2	100.8	100.3	98.6
85°	51.9	50.3	50.3	49.5	50.3	48.7	47.9	51.1	55.8	55.8	54.2
87.5°	26.4	25.6	25.7	24.4	23.2	22.0	19.6	19.8	19.3	21.4	20.3
90°	25.2	24.3	21.4	18.5	15.5	12.6	10.0	7.8	5.5	3.3	1.0
92.5°	39.6	38.9	37.2	35.6	33.9	32.2	30.6	29.1	27.6	26.0	24.5
95°	75.9	75.0	73.2	71.4	69.6	67.8	66.1	64.5	62.9	61.3	59.8
97.5°	118.4	117.3	116.0	114.7	113.4	112.1	110.9	109.7	108.5	107.3	106.2
100°	149.6	148.9	147.8	146.7	145.6	144.4	143.2	141.8	140.5	139.1	137.8
102.5°	185.3	184.6	183.1	181.6	180.1	178.6	177.5	176.7	175.9	175.1	174.3
105°	239.1	239.1	237.1	235.0	233.0	231.0	229.8	229.3	228.9	228.4	228.0
107.5°	295.9	295.2	294.4	293.6	292.8	292.0	291.4	291.2	290.9	290.6	290.4
110°	334.2	333.3	332.9	332.4	332.0	331.5	331.1	330.6	330.2	329.7	329.3



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CATALOG NUMBER: S123RDIW-S1165D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	372.5	371.4	371.3	371.2	371.1	371.0	370.9	370.6	370.3	370.1	369.8
115°	431.8	431.6	432.0	432.5	432.9	433.4	433.3	432.6	431.9	431.2	430.6
117.5°	491.1	491.2	491.7	492.3	492.9	493.5	493.6	493.1	492.7	492.2	491.8
120°	530.6	530.9	532.0	533.1	534.2	535.4	535.3	533.9	532.6	531.2	529.9
122.5°	570.8	571.4	572.0	572.6	573.2	573.7	573.5	572.5	571.6	570.6	569.6
125°	630.3	631.2	631.6	632.1	632.5	633.0	632.9	632.2	631.5	630.8	630.2
127.5°	689.1	690.3	690.8	691.3	691.8	692.3	691.8	690.4	689.0	687.5	686.1
130°	727.5	728.4	729.1	729.8	730.5	731.1	730.6	728.8	727.0	725.2	723.4
132.5°	765.4	766.5	767.0	767.5	768.0	768.5	767.9	766.1	764.2	762.4	760.6
135°	821.7	822.6	822.9	823.1	823.3	823.5	823.0	821.6	820.3	818.9	817.6
137.5°	877.0	878.0	877.4	876.8	876.2	875.6	874.8	873.6	872.5	871.4	870.3
140°	912.6	912.8	912.6	912.4	912.1	911.9	911.2	910.1	909.0	907.9	906.7
142.5°	946.6	946.9	946.5	946.0	945.6	945.2	944.5	943.3	942.2	941.1	940.0
145°	996.7	996.9	996.2	995.6	994.9	994.2	993.6	993.2	992.7	992.3	991.8
147.5°	1043.7	1043.7	1043.1	1042.5	1041.8	1041.2	1040.5	1039.7	1038.8	1038.0	1037.2
150°	1072.9	1072.9	1072.4	1072.0	1071.5	1071.1	1070.6	1070.2	1069.7	1069.3	1068.8
152.5°	1099.2	1098.8	1098.6	1098.3	1098.0	1097.7	1097.3	1096.7	1096.0	1095.4	1094.8
155°	1137.6	1136.7	1136.5	1136.3	1136.0	1135.8	1135.7	1135.7	1135.7	1135.7	1135.7
157.5°	1171.1	1170.1	1170.0	1169.8	1169.6	1169.4	1169.5	1169.7	1170.0	1170.3	1170.6
160°	1191.5	1190.4	1190.4	1190.4	1190.4	1190.4	1190.6	1191.1	1191.5	1192.0	1192.4
162.5°	1211.0	1209.9	1209.7	1209.5	1209.3	1209.1	1209.4	1210.0	1210.6	1211.3	1211.9
165°	1235.3	1234.0	1234.0	1234.0	1234.0	1234.0	1234.3	1235.0	1235.7	1236.3	1237.0
167.5°	1255.2	1253.8	1253.7	1253.5	1253.3	1253.1	1253.5	1254.4	1255.3	1256.2	1257.1
170°	1265.9	1264.4	1264.4	1264.4	1264.4	1264.4	1264.8	1265.7	1266.6	1267.5	1268.4
172.5°	1274.7	1273.3	1273.3	1273.3	1273.3	1273.3	1273.7	1274.6	1275.5	1276.4	1277.3
175°	1284.0	1282.6	1282.6	1282.6	1282.6	1282.6	1283.1	1284.0	1284.9	1285.8	1286.7
177.5°	1288.3	1287.3	1287.3	1287.3	1287.3	1287.3	1287.6	1288.3	1289.1	1289.8	1290.5
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7



TEST NUMBER: P332479

CATALOG NUMBER: S123RDIW-S1165D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0
2.5°	1846.1	1853.0	1861.8	1875.0	1885.1	1893.9	1895.8	1898.3	1904.6	1915.2	1923.4
5°	1858.0	1876.1	1905.2	1933.5	1964.1	1989.3	2012.9	2029.4	2045.1	2078.1	2104.8
7.5°	1854.3	1894.5	1940.1	1990.9	2042.3	2092.1	2138.3	2179.6	2220.8	2268.9	2323.8
10°	1851.7	1898.9	1960.2	2025.4	2097.0	2166.9	2234.5	2287.2	2348.5	2403.5	2473.4
12.5°	1839.8	1907.7	1981.0	2064.4	2152.3	2232.9	2321.9	2394.7	2464.8	2544.3	2625.6
15°	1824.2	1906.8	1999.5	2110.3	2243.9	2341.4	2432.6	2559.1	2645.6	2732.0	2848.4
17.5°	1795.8	1896.5	2012.4	2156.4	2267.8	2398.8	2536.0	2636.0	2752.5	2874.3	2979.6
20°	1773.1	1890.3	2019.9	2161.4	2303.7	2445.9	2578.8	2698.2	2818.5	2959.2	3045.6
22.5°	1750.5	1866.4	2001.1	2151.4	2304.3	2454.1	2604.5	2744.8	2880.1	3022.1	3132.4
25°	1702.4	1840.0	1986.1	2139.4	2290.3	2455.4	2634.6	2791.0	2958.4	3104.6	3209.1
27.5°	1653.7	1779.7	1925.3	2080.8	2248.5	2443.6	2654.4	2832.2	2999.9	3104.6	3137.4
30°	1609.7	1743.3	1876.9	2034.9	2216.4	2434.1	2658.1	2861.7	2999.3	3044.8	3011.0
32.5°	1565.0	1686.1	1818.4	1980.2	2173.0	2410.9	2663.2	2844.1	2926.9	2892.1	2754.5
35°	1486.3	1595.5	1723.6	1885.5	2107.2	2398.0	2642.4	2765.0	2744.6	2548.1	2288.7
37.5°	1402.0	1491.0	1609.7	1779.0	2039.0	2346.9	2553.1	2571.2	2394.4	2092.7	1793.1
40°	1335.4	1415.5	1537.4	1714.2	1986.1	2296.6	2463.2	2390.1	2115.8	1780.2	1530.3
42.5°	1270.6	1338.2	1455.6	1646.3	1935.8	2228.1	2329.3	2170.1	1853.6	1536.3	1309.0
45°	1160.9	1224.5	1342.4	1538.1	1832.9	2097.0	2083.6	1806.9	1490.2	1234.8	1046.1
47.5°	1056.8	1112.5	1223.1	1422.9	1712.0	1900.5	1775.5	1481.1	1212.4	1007.5	872.9
50°	983.2	1038.3	1148.3	1345.6	1615.2	1752.7	1574.3	1290.6	1044.6	874.8	767.9
52.5°	912.8	966.6	1067.2	1259.4	1498.2	1580.4	1388.8	1125.8	920.7	774.2	682.4
55°	814.3	855.1	945.5	1129.4	1307.9	1326.7	1132.6	912.5	743.5	641.4	578.5
57.5°	713.8	749.0	838.3	984.8	1109.9	1100.2	916.1	725.8	612.0	536.0	490.4
60°	648.4	683.0	761.6	887.4	981.7	948.7	779.7	626.4	529.0	473.2	437.0
62.5°	587.4	614.5	688.0	779.8	847.7	810.3	666.5	539.6	462.3	415.3	386.7
65°	499.1	521.1	580.0	628.0	665.7	629.6	510.1	422.1	366.3	333.3	313.6
67.5°	415.1	429.1	466.4	483.7	510.3	470.6	383.6	324.6	292.9	265.0	251.4
70°	362.3	372.5	392.2	406.3	413.4	372.5	308.1	264.9	238.1	218.5	209.9
72.5°	309.5	318.5	322.4	334.0	330.4	292.1	247.7	213.3	194.1	180.8	169.6
75°	236.6	240.5	236.6	231.9	221.6	194.9	164.3	147.0	132.8	126.5	122.6
77.5°	172.4	171.2	165.8	158.5	141.0	124.2	107.7	101.9	95.7	92.4	91.0
80°	132.8	129.7	125.0	113.2	98.2	86.5	82.5	78.6	76.2	72.3	71.5
82.5°	98.9	97.0	89.1	79.2	68.7	63.2	59.9	58.5	56.1	54.1	53.9
85°	52.7	50.3	41.7	36.2	34.6	33.0	32.2	32.2	29.1	28.3	28.3
87.5°	17.6	14.3	14.1	12.7	13.2	12.5	13.8	13.1	13.0	13.8	12.8
90°	3.3	5.5	7.8	10.0	12.6	15.5	18.5	21.4	24.3	25.2	26.1
92.5°	26.0	27.6	29.1	30.6	32.2	33.9	35.6	37.2	38.9	39.6	40.3
95°	61.3	62.9	64.5	66.1	67.8	69.6	71.4	73.2	75.0	75.9	76.8
97.5°	107.3	108.5	109.7	110.9	112.1	113.4	114.7	116.0	117.3	118.4	119.4
100°	139.1	140.5	141.8	143.2	144.4	145.6	146.7	147.8	148.9	149.6	150.3
102.5°	175.1	175.9	176.7	177.5	178.6	180.1	181.6	183.1	184.6	185.3	185.9
105°	228.4	228.9	229.3	229.8	231.0	233.0	235.0	237.1	239.1	239.1	239.1
107.5°	290.6	290.9	291.2	291.4	292.0	292.8	293.6	294.4	295.2	295.9	296.7
110°	329.7	330.2	330.6	331.1	331.5	332.0	332.4	332.9	333.3	334.2	335.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	370.1	370.3	370.6	370.9	371.0	371.1	371.2	371.3	371.4	372.5	373.6
115°	431.2	431.9	432.6	433.3	433.4	432.9	432.5	432.0	431.6	431.8	432.0
117.5°	492.2	492.7	493.1	493.6	493.5	492.9	492.3	491.7	491.2	491.1	491.1
120°	531.2	532.6	533.9	535.3	535.4	534.2	533.1	532.0	530.9	530.6	530.4
122.5°	570.6	571.6	572.5	573.5	573.7	573.2	572.6	572.0	571.4	570.8	570.2
125°	630.8	631.5	632.2	632.9	633.0	632.5	632.1	631.6	631.2	630.3	629.4
127.5°	687.5	689.0	690.4	691.8	692.3	691.8	691.3	690.8	690.3	689.1	687.8
130°	725.2	727.0	728.8	730.6	731.1	730.5	729.8	729.1	728.4	727.5	726.6
132.5°	762.4	764.2	766.1	767.9	768.5	768.0	767.5	767.0	766.5	765.4	764.4
135°	818.9	820.3	821.6	823.0	823.5	823.3	823.1	822.9	822.6	821.7	820.8
137.5°	871.4	872.5	873.6	874.8	875.6	876.2	876.8	877.4	878.0	877.0	876.1
140°	907.9	909.0	910.1	911.2	911.9	912.1	912.4	912.6	912.8	912.6	912.4
142.5°	941.1	942.2	943.3	944.5	945.2	945.6	946.0	946.5	946.9	946.6	946.4
145°	992.3	992.7	993.2	993.6	994.2	994.9	995.6	996.2	996.9	996.7	996.5
147.5°	1038.0	1038.8	1039.7	1040.5	1041.2	1041.8	1042.5	1043.1	1043.7	1043.7	1043.7
150°	1069.3	1069.7	1070.2	1070.6	1071.1	1071.5	1072.0	1072.4	1072.9	1072.9	1072.9
152.5°	1095.4	1096.0	1096.7	1097.3	1097.7	1098.0	1098.3	1098.6	1098.8	1099.2	1099.5
155°	1135.7	1135.7	1135.7	1135.7	1135.8	1136.0	1136.3	1136.5	1136.7	1137.6	1138.5
157.5°	1170.3	1170.0	1169.7	1169.5	1169.4	1169.6	1169.8	1170.0	1170.1	1171.1	1172.0
160°	1192.0	1191.5	1191.1	1190.6	1190.4	1190.4	1190.4	1190.4	1190.4	1191.5	1192.7
162.5°	1211.3	1210.6	1210.0	1209.4	1209.1	1209.3	1209.5	1209.7	1209.9	1211.0	1212.1
165°	1236.3	1235.7	1235.0	1234.3	1234.0	1234.0	1234.0	1234.0	1234.0	1235.3	1236.7
167.5°	1256.2	1255.3	1254.4	1253.5	1253.1	1253.3	1253.5	1253.7	1253.8	1255.2	1256.6
170°	1267.5	1266.6	1265.7	1264.8	1264.4	1264.4	1264.4	1264.4	1264.4	1265.9	1267.5
172.5°	1276.4	1275.5	1274.6	1273.7	1273.3	1273.3	1273.3	1273.3	1273.3	1274.7	1276.1
175°	1285.8	1284.9	1284.0	1283.1	1282.6	1282.6	1282.6	1282.6	1282.6	1284.0	1285.3
177.5°	1289.8	1289.1	1288.3	1287.6	1287.3	1287.3	1287.3	1287.3	1287.3	1288.3	1289.4
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0
2.5°	1936.6	1936.6	1939.1	1948.6	1949.8	1958.0	1955.5
5°	2128.4	2143.3	2148.8	2172.4	2186.6	2192.9	2180.3
7.5°	2362.9	2405.1	2425.0	2449.7	2471.6	2478.2	2461.0
10°	2534.0	2578.0	2614.9	2637.7	2658.9	2673.1	2691.2
12.5°	2699.3	2753.4	2788.5	2820.7	2842.5	2860.5	2863.4
15°	2879.0	2960.7	3022.8	3068.4	3091.2	3103.0	3098.3
17.5°	3060.2	3136.0	3180.2	3226.7	3258.3	3259.9	3260.8
20°	3162.7	3236.6	3287.7	3322.3	3357.7	3356.1	3363.9
22.5°	3231.3	3289.4	3328.6	3353.7	3365.8	3359.9	3361.4
25°	3263.3	3280.6	3273.6	3233.5	3223.3	3186.3	3192.6
27.5°	3098.0	3016.2	2931.7	2822.9	2737.1	2668.5	2672.0
30°	2873.5	2728.9	2563.8	2425.5	2301.3	2266.7	2192.9
32.5°	2559.7	2342.8	2149.5	2020.6	1914.0	1885.1	1820.6
35°	2027.8	1817.2	1618.3	1498.8	1451.7	1385.7	1384.9
37.5°	1576.2	1390.7	1285.5	1195.9	1148.9	1109.0	1105.1
40°	1325.9	1181.3	1101.9	1037.5	991.1	961.2	954.2
42.5°	1151.1	1034.2	959.8	919.9	884.2	868.8	857.3
45°	940.0	861.4	809.5	773.4	756.9	745.1	738.8
47.5°	786.3	733.6	698.3	674.2	660.8	648.4	651.7
50°	702.7	659.4	633.5	610.7	600.5	591.8	592.6
52.5°	635.4	596.6	575.6	559.1	546.4	540.3	537.3
55°	539.2	514.8	493.6	481.8	474.7	466.1	463.7
57.5°	459.9	441.1	423.8	410.4	408.7	400.4	401.5
60°	407.1	391.4	377.3	370.2	364.7	357.6	360.0
62.5°	363.7	350.5	337.7	331.8	326.3	321.1	322.2
65°	297.9	285.3	277.4	274.3	271.9	269.6	267.2
67.5°	237.4	229.7	224.8	218.0	213.2	212.4	210.0
70°	199.6	189.4	180.8	172.1	169.8	169.0	169.8
72.5°	160.0	153.6	151.2	147.0	146.5	144.5	145.9
75°	120.3	117.9	116.3	113.2	113.2	113.2	113.2
77.5°	88.7	87.2	86.3	85.7	84.9	83.8	83.6
80°	69.2	68.4	66.8	66.8	66.0	66.8	66.0
82.5°	52.2	52.0	50.5	50.5	49.7	49.2	49.7
85°	26.7	25.9	27.5	25.9	26.7	25.2	26.7
87.5°	12.9	13.1	12.6	12.7	12.2	13.5	12.4
90°	27.0	27.9	28.6	29.0	29.5	29.9	30.4
92.5°	41.1	41.8	42.0	41.7	41.5	41.2	40.9
95°	77.7	78.6	79.0	79.0	79.0	79.0	79.0
97.5°	120.4	121.5	121.9	121.8	121.8	121.7	121.6
100°	151.0	151.6	152.2	152.6	153.1	153.5	154.0
102.5°	186.6	187.3	187.6	187.5	187.4	187.3	187.2
105°	239.1	239.1	239.3	239.8	240.2	240.7	241.1
107.5°	297.4	298.1	298.3	298.1	297.8	297.5	297.2
110°	336.0	336.9	337.1	336.7	336.2	335.8	335.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	374.6	375.7	376.2	376.1	376.0	376.0	375.9
115°	432.3	432.5	432.5	432.3	432.0	431.8	431.6
117.5°	491.0	491.0	490.6	490.0	489.4	488.7	488.1
120°	530.2	530.0	529.6	529.2	528.7	528.3	527.8
122.5°	569.6	569.1	568.4	567.8	567.2	566.6	565.9
125°	628.5	627.6	626.7	625.8	624.9	624.0	623.1
127.5°	686.6	685.3	684.1	683.1	682.1	681.0	680.0
130°	725.7	724.8	723.6	722.0	720.4	718.9	717.3
132.5°	763.3	762.2	761.1	759.8	758.6	757.4	756.2
135°	819.9	819.0	818.4	817.9	817.5	817.0	816.6
137.5°	875.1	874.2	873.3	872.4	871.6	870.7	869.9
140°	912.1	911.9	911.0	909.4	907.9	906.3	904.7
142.5°	946.2	946.0	945.2	944.0	942.8	941.6	940.4
145°	996.2	996.0	995.4	994.5	993.6	992.7	991.8
147.5°	1043.7	1043.7	1043.0	1041.7	1040.3	1039.0	1037.6
150°	1072.9	1072.9	1072.2	1070.9	1069.5	1068.2	1066.8
152.5°	1099.9	1100.3	1099.9	1098.7	1097.5	1096.3	1095.2
155°	1139.4	1140.3	1140.0	1138.4	1136.8	1135.3	1133.7
157.5°	1173.0	1173.9	1173.8	1172.5	1171.3	1170.0	1168.7
160°	1193.8	1194.9	1195.0	1194.1	1193.2	1192.3	1191.4
162.5°	1213.2	1214.4	1214.2	1212.8	1211.3	1209.9	1208.4
165°	1238.0	1239.4	1239.3	1237.7	1236.1	1234.5	1233.0
167.5°	1258.0	1259.4	1259.4	1258.0	1256.6	1255.2	1253.8
170°	1269.1	1270.7	1270.7	1269.1	1267.5	1265.9	1264.4
172.5°	1277.5	1278.9	1278.8	1277.2	1275.6	1274.0	1272.5
175°	1286.7	1288.0	1287.9	1286.3	1284.7	1283.2	1281.6
177.5°	1290.5	1291.6	1291.5	1290.2	1289.0	1287.7	1286.5
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7

(END OF REPORT)