

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: P332378

Luminaire Tested: **S123RDIP-S1165D1025U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332378  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIP-S1165D1025U835-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1025 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

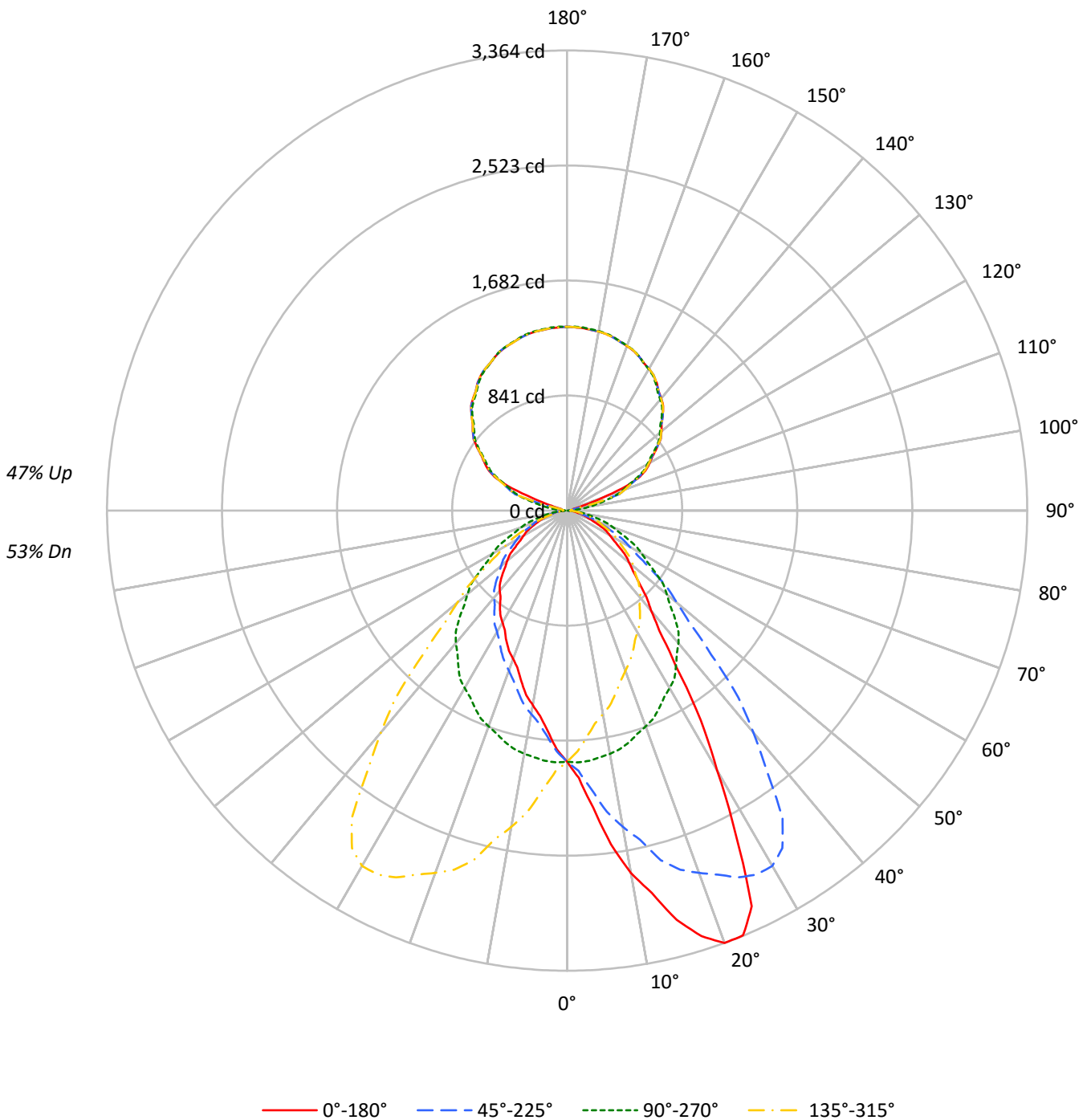
Lumens per Lamp: N/A  
Luminaire Lumens: 8672.2 lumens  
Efficiency: N/A  
Efficacy: 129.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 66.8  
Input Voltage (V): 120  
Input Current (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



TEST NUMBER: P332378

CATALOG NUMBER: S123RDIP-S1165D1025U835-4F0-1E-UDD-A

### Luminous Intensity Polar Plot





TEST NUMBER: P332378

CATALOG NUMBER: S123RDIP-S1165D1025U835-4F0-1E-UDD-A

**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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	99	95	91	88	92	88	85	82	75	73	71	64	62	61	53	52	51	46
2	91	84	78	73	84	78	73	68	67	63	60	57	54	52	47	45	44	39
3	83	74	67	61	77	69	63	58	59	55	51	51	47	44	42	40	38	34
4	76	66	58	52	71	62	55	50	53	48	44	45	42	38	38	35	33	30
5	70	59	51	45	65	55	48	43	48	42	38	41	37	34	35	32	29	26
6	65	53	45	40	60	50	43	38	43	38	34	37	33	30	32	29	26	23
7	60	48	40	35	56	45	38	33	39	34	30	34	30	27	29	26	23	21
8	56	44	36	31	52	41	34	30	36	31	27	31	27	24	27	24	21	19
9	52	40	33	28	48	38	31	27	33	28	24	29	25	22	25	22	19	17
10	49	37	30	25	45	35	28	24	31	25	22	27	23	20	23	20	17	16

**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



TEST NUMBER: P332378

CATALOG NUMBER: S123RDIP-S1165D1025U835-4F0-1E-UDD-A

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.6	2.1
10°-20°	564.1	6.5
20°-30°	886.2	10.2
30°-40°	924.6	10.7
40°-50°	791.2	9.1
50°-60°	603.1	7.0
60°-70°	386.5	4.5
70°-80°	186.0	2.1
80°-90°	53.0	0.6
90°-100°	48.8	0.6
100°-110°	232.8	2.7
110°-120°	559.2	6.4
120°-130°	712.1	8.2
130°-140°	760.8	8.8
140°-150°	711.5	8.2
150°-160°	573.9	6.6
160°-170°	370.4	4.3
170°-180°	127.6	1.5
0°-30°	1630.8	18.8
0°-40°	2555.4	29.5
0°-60°	3949.7	45.5
0°-90°	4575.1	52.8
90°-120°	840.8	9.7
90°-150°	3025.2	34.9
90°-180°	4097.0	47.2
0°-180°	8672.2	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	14
95°	38	61	38	61	38	32
105°	44	297	44	297	44	100
115°	587	558	587	558	587	542
125°	802	786	802	786	802	717
135°	989	979	989	979	989	763
145°	1141	1130	1141	1130	1141	712
155°	1243	1245	1243	1245	1243	573
165°	1310	1313	1310	1313	1310	370
175°	1338	1344	1338	1344	1338	127
180°	1344	1344	1344	1344	1344	



TEST NUMBER: P332378

CATALOG NUMBER: S123RDIP-S1165D1025U835-4F0-1E-UDD-A

**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°	12.3	13.4	12.1	12.6	12.6	13.0	12.9	12.7	13.8	13.0	13.0
90°	29.9	29.5	29.1	28.6	28.2	27.5	26.6	25.7	24.8	24.0	21.1
92.5°	33.1	32.9	32.6	32.3	32.1	31.2	29.8	28.4	27.0	25.6	23.4
95°	37.9	37.9	37.9	37.9	37.9	37.2	35.6	34.0	32.5	30.9	28.5
97.5°	41.1	40.9	40.7	40.5	40.2	39.2	37.5	35.7	33.9	32.1	48.1
100°	41.9	41.7	41.5	41.3	41.0	40.0	38.3	36.5	34.7	32.9	67.5
102.5°	42.7	42.3	41.9	41.5	41.1	43.7	49.2	54.7	60.2	65.7	103.5
105°	43.9	43.5	43.0	42.6	42.1	61.6	100.8	140.1	179.3	218.6	238.6
107.5°	137.9	167.5	197.1	226.7	256.3	285.5	314.3	343.1	371.9	400.7	397.5
110°	274.5	306.2	337.9	369.6	401.4	420.9	428.2	435.5	442.8	450.2	447.7



TEST NUMBER: P332378

CATALOG NUMBER: S123RDIP-S1165D1025U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	470.9	477.6	484.3	491.0	497.7	501.0	500.9	500.7	500.6	500.5	498.0
115°	586.9	586.0	585.1	584.2	583.4	581.8	579.6	577.4	575.2	572.9	570.9
117.5°	652.0	651.8	651.6	651.5	651.3	650.3	648.5	646.8	645.0	643.2	642.2
120°	696.7	696.7	696.7	696.7	696.7	695.8	694.0	692.3	690.5	688.7	688.1
122.5°	740.6	740.4	740.3	740.1	739.9	739.2	738.0	736.7	735.5	734.2	733.4
125°	802.5	802.1	801.6	801.2	800.7	800.3	799.8	799.4	799.0	798.5	797.6
127.5°	862.0	862.4	862.9	863.3	863.8	863.6	862.9	862.2	861.5	860.8	859.7
130°	900.3	900.8	901.2	901.7	902.1	901.9	901.0	900.1	899.2	898.3	897.4
132.5°	935.5	936.1	936.7	937.3	937.9	937.8	936.9	936.0	935.2	934.3	933.6
135°	989.2	989.8	990.5	991.2	991.8	991.8	991.2	990.5	989.8	989.2	988.3
137.5°	1039.7	1040.1	1040.6	1041.0	1041.4	1041.1	1040.1	1039.0	1037.9	1036.9	1036.4
140°	1070.0	1070.5	1070.9	1071.3	1071.8	1071.6	1070.7	1069.8	1068.9	1068.0	1067.4
142.5°	1098.0	1098.6	1099.2	1099.8	1100.4	1100.4	1099.7	1099.0	1098.3	1097.6	1096.9
145°	1140.9	1140.9	1140.9	1140.9	1140.9	1140.7	1140.2	1139.8	1139.3	1138.9	1138.4
147.5°	1172.8	1173.8	1174.9	1175.9	1176.9	1177.2	1176.7	1176.3	1175.9	1175.4	1175.0
150°	1196.8	1197.4	1198.1	1198.8	1199.4	1199.6	1199.1	1198.7	1198.2	1197.8	1197.3
152.5°	1215.9	1217.0	1218.0	1219.0	1220.0	1220.1	1219.3	1218.5	1217.7	1216.9	1216.7
155°	1242.7	1244.0	1245.4	1246.7	1248.0	1248.1	1247.0	1245.9	1244.8	1243.7	1243.5
157.5°	1265.3	1267.0	1268.7	1270.4	1272.2	1272.4	1271.0	1269.7	1268.4	1267.0	1267.3
160°	1279.6	1281.2	1282.7	1284.3	1285.8	1285.9	1284.6	1283.3	1282.0	1280.6	1280.8
162.5°	1293.2	1294.6	1295.9	1297.3	1298.7	1298.6	1297.1	1295.6	1294.1	1292.6	1292.8
165°	1309.6	1311.1	1312.7	1314.2	1315.8	1315.7	1313.9	1312.1	1310.3	1308.6	1308.8
167.5°	1321.3	1323.1	1324.9	1326.7	1328.4	1328.4	1326.7	1324.9	1323.1	1321.3	1321.3
170°	1328.5	1330.3	1332.1	1333.9	1335.6	1335.6	1333.9	1332.1	1330.3	1328.5	1328.5
172.5°	1332.5	1334.5	1336.4	1338.4	1340.3	1340.4	1338.6	1336.9	1335.1	1333.3	1333.1
175°	1338.5	1340.3	1342.1	1343.8	1345.6	1345.7	1344.2	1342.6	1341.1	1339.5	1339.3
177.5°	1340.3	1342.1	1343.9	1345.6	1347.4	1347.6	1346.2	1344.7	1343.3	1341.9	1341.7
180°	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5



TEST NUMBER: P332378

CATALOG NUMBER: S123RDIP-S1165D1025U835-4F0-1E-UDD-A

**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°	13.7	12.5	13.2	12.7	14.1	14.3	17.6	20.3	21.4	19.3	19.8
90°	18.2	15.3	12.4	9.9	7.7	5.4	3.2	1.0	3.2	5.4	7.7
92.5°	21.2	19.0	16.9	16.1	16.7	17.3	17.9	18.6	17.9	17.3	16.7
95°	26.1	23.6	21.2	24.5	33.6	42.7	51.8	60.9	51.8	42.7	33.6
97.5°	64.1	80.1	96.0	106.0	110.1	114.2	118.3	122.4	118.3	114.2	110.1
100°	102.1	136.7	171.3	186.4	182.0	177.6	173.1	168.7	173.1	177.6	182.0
102.5°	141.3	179.1	216.9	234.2	231.0	227.8	224.6	221.4	224.6	227.8	231.0
105°	258.5	278.5	298.4	307.2	304.8	302.3	299.9	297.4	299.9	302.3	304.8
107.5°	394.4	391.2	388.1	385.5	383.6	381.6	379.7	377.7	379.7	381.6	383.6
110°	445.3	442.8	440.4	438.3	436.5	434.7	433.0	431.2	433.0	434.7	436.5





TEST NUMBER: P332378

CATALOG NUMBER: S123RDIP-S1165D1025U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	495.6	493.2	490.7	488.7	487.1	485.5	483.9	482.3	483.9	485.5	487.1
115°	568.9	566.9	565.0	563.3	562.0	560.6	559.3	558.0	559.3	560.6	562.0
117.5°	641.2	640.1	639.1	637.8	636.2	634.5	632.9	631.2	632.9	634.5	636.2
120°	687.4	686.7	686.1	684.7	682.7	680.7	678.7	676.7	678.7	680.7	682.7
122.5°	732.6	731.7	730.9	729.6	728.0	726.3	724.7	723.1	724.7	726.3	728.0
125°	796.7	795.9	795.0	793.6	791.9	790.1	788.3	786.5	788.3	790.1	791.9
127.5°	858.7	857.6	856.5	855.1	853.3	851.6	849.8	848.0	849.8	851.6	853.3
130°	896.6	895.7	894.8	893.5	891.7	889.9	888.1	886.4	888.1	889.9	891.7
132.5°	932.8	932.1	931.4	930.2	928.4	926.6	924.9	923.1	924.9	926.6	928.4
135°	987.4	986.5	985.6	984.5	983.2	981.8	980.5	979.2	980.5	981.8	983.2
137.5°	1035.9	1035.4	1034.9	1033.8	1032.2	1030.5	1028.8	1027.1	1028.8	1030.5	1032.2
140°	1066.7	1066.0	1065.4	1064.4	1063.0	1061.7	1060.4	1059.0	1060.4	1061.7	1063.0
142.5°	1096.2	1095.6	1094.9	1093.9	1092.6	1091.2	1089.9	1088.6	1089.9	1091.2	1092.6
145°	1138.0	1137.6	1137.1	1136.1	1134.6	1133.0	1131.5	1129.9	1131.5	1133.0	1134.6
147.5°	1174.5	1174.1	1173.6	1172.9	1171.9	1170.9	1169.9	1168.8	1169.9	1170.9	1171.9
150°	1196.9	1196.4	1196.0	1195.4	1194.8	1194.1	1193.5	1192.8	1193.5	1194.1	1194.8
152.5°	1216.4	1216.1	1215.9	1215.6	1215.3	1215.0	1214.7	1214.3	1214.7	1215.0	1215.3
155°	1243.2	1243.0	1242.8	1242.9	1243.4	1243.8	1244.2	1244.7	1244.2	1243.8	1243.4
157.5°	1267.5	1267.7	1267.9	1268.1	1268.1	1268.2	1268.2	1268.2	1268.2	1268.2	1268.1
160°	1281.1	1281.3	1281.5	1281.7	1282.0	1282.2	1282.4	1282.6	1282.4	1282.2	1282.0
162.5°	1293.0	1293.3	1293.5	1293.9	1294.5	1295.0	1295.6	1296.2	1295.6	1295.0	1294.5
165°	1309.0	1309.2	1309.5	1309.9	1310.6	1311.2	1311.9	1312.6	1311.9	1311.2	1310.6
167.5°	1321.3	1321.3	1321.3	1321.8	1322.7	1323.6	1324.5	1325.3	1324.5	1323.6	1322.7
170°	1328.5	1328.5	1328.5	1329.0	1329.9	1330.8	1331.6	1332.5	1331.6	1330.8	1329.9
172.5°	1333.0	1332.8	1332.6	1333.1	1334.1	1335.2	1336.3	1337.3	1336.3	1335.2	1334.1
175°	1339.1	1338.8	1338.6	1339.1	1340.2	1341.3	1342.4	1343.5	1342.4	1341.3	1340.2
177.5°	1341.6	1341.4	1341.2	1341.6	1342.4	1343.3	1344.2	1345.1	1344.2	1343.3	1342.4
180°	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5



TEST NUMBER: P332378

CATALOG NUMBER: S123RDIP-S1165D1025U835-4F0-1E-UDD-A

**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	25.6	25.5	26.3	26.5	27.3	27.5	27.6
90°	9.9	12.4	15.3	18.2	21.1	24.0	24.8	25.7	26.6	27.5	28.2
92.5°	16.1	16.9	19.0	21.2	23.4	25.6	27.0	28.4	29.8	31.2	32.1
95°	24.5	21.2	23.6	26.1	28.5	30.9	32.5	34.0	35.6	37.2	37.9
97.5°	106.0	96.0	80.1	64.1	48.1	32.1	33.9	35.7	37.5	39.2	40.2
100°	186.4	171.3	136.7	102.1	67.5	32.9	34.7	36.5	38.3	40.0	41.0
102.5°	234.2	216.9	179.1	141.3	103.5	65.7	60.2	54.7	49.2	43.7	41.1
105°	307.2	298.4	278.5	258.5	238.6	218.6	179.3	140.1	100.8	61.6	42.1
107.5°	385.5	388.1	391.2	394.4	397.5	400.7	371.9	343.1	314.3	285.5	256.3
110°	438.3	440.4	442.8	445.3	447.7	450.2	442.8	435.5	428.2	420.9	401.4



TEST NUMBER: P332378

CATALOG NUMBER: S123RDIP-S1165D1025U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	488.7	490.7	493.2	495.6	498.0	500.5	500.6	500.7	500.9	501.0	497.7
115°	563.3	565.0	566.9	568.9	570.9	572.9	575.2	577.4	579.6	581.8	583.4
117.5°	637.8	639.1	640.1	641.2	642.2	643.2	645.0	646.8	648.5	650.3	651.3
120°	684.7	686.1	686.7	687.4	688.1	688.7	690.5	692.3	694.0	695.8	696.7
122.5°	729.6	730.9	731.7	732.6	733.4	734.2	735.5	736.7	738.0	739.2	739.9
125°	793.6	795.0	795.9	796.7	797.6	798.5	799.0	799.4	799.8	800.3	800.7
127.5°	855.1	856.5	857.6	858.7	859.7	860.8	861.5	862.2	862.9	863.6	863.8
130°	893.5	894.8	895.7	896.6	897.4	898.3	899.2	900.1	901.0	901.9	902.1
132.5°	930.2	931.4	932.1	932.8	933.6	934.3	935.2	936.0	936.9	937.8	937.9
135°	984.5	985.6	986.5	987.4	988.3	989.2	989.8	990.5	991.2	991.8	991.8
137.5°	1033.8	1034.9	1035.4	1035.9	1036.4	1036.9	1037.9	1039.0	1040.1	1041.1	1041.4
140°	1064.4	1065.4	1066.0	1066.7	1067.4	1068.0	1068.9	1069.8	1070.7	1071.6	1071.8
142.5°	1093.9	1094.9	1095.6	1096.2	1096.9	1097.6	1098.3	1099.0	1099.7	1100.4	1100.4
145°	1136.1	1137.1	1137.6	1138.0	1138.4	1138.9	1139.3	1139.8	1140.2	1140.7	1140.9
147.5°	1172.9	1173.6	1174.1	1174.5	1175.0	1175.4	1175.9	1176.3	1176.7	1177.2	1176.9
150°	1195.4	1196.0	1196.4	1196.9	1197.3	1197.8	1198.2	1198.7	1199.1	1199.6	1199.4
152.5°	1215.6	1215.9	1216.1	1216.4	1216.7	1216.9	1217.7	1218.5	1219.3	1220.1	1220.0
155°	1242.9	1242.8	1243.0	1243.2	1243.5	1243.7	1244.8	1245.9	1247.0	1248.1	1248.0
157.5°	1268.1	1267.9	1267.7	1267.5	1267.3	1267.0	1268.4	1269.7	1271.0	1272.4	1272.2
160°	1281.7	1281.5	1281.3	1281.1	1280.8	1280.6	1282.0	1283.3	1284.6	1285.9	1285.8
162.5°	1293.9	1293.5	1293.3	1293.0	1292.8	1292.6	1294.1	1295.6	1297.1	1298.6	1298.7
165°	1309.9	1309.5	1309.2	1309.0	1308.8	1308.6	1310.3	1312.1	1313.9	1315.7	1315.8
167.5°	1321.8	1321.3	1321.3	1321.3	1321.3	1321.3	1323.1	1324.9	1326.7	1328.4	1328.4
170°	1329.0	1328.5	1328.5	1328.5	1328.5	1328.5	1330.3	1332.1	1333.9	1335.6	1335.6
172.5°	1333.1	1332.6	1332.8	1333.0	1333.1	1333.3	1335.1	1336.9	1338.6	1340.4	1340.3
175°	1339.1	1338.6	1338.8	1339.1	1339.3	1339.5	1341.1	1342.6	1344.2	1345.7	1345.6
177.5°	1341.6	1341.2	1341.4	1341.6	1341.7	1341.9	1343.3	1344.7	1346.2	1347.6	1347.4
180°	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5



TEST NUMBER: P332378

CATALOG NUMBER: S123RDIP-S1165D1025U835-4F0-1E-UDD-A

**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°	29.0	27.8	27.9	28.6	27.9	27.8	29.0	27.6	27.5	27.3	26.5
90°	28.6	29.1	29.5	29.9	29.5	29.1	28.6	28.2	27.5	26.6	25.7
92.5°	32.3	32.6	32.9	33.1	32.9	32.6	32.3	32.1	31.2	29.8	28.4
95°	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.2	35.6	34.0
97.5°	40.5	40.7	40.9	41.1	40.9	40.7	40.5	40.2	39.2	37.5	35.7
100°	41.3	41.5	41.7	41.9	41.7	41.5	41.3	41.0	40.0	38.3	36.5
102.5°	41.5	41.9	42.3	42.7	42.3	41.9	41.5	41.1	43.7	49.2	54.7
105°	42.6	43.0	43.5	43.9	43.5	43.0	42.6	42.1	61.6	100.8	140.1
107.5°	226.7	197.1	167.5	137.9	167.5	197.1	226.7	256.3	285.5	314.3	343.1
110°	369.6	337.9	306.2	274.5	306.2	337.9	369.6	401.4	420.9	428.2	435.5



TEST NUMBER: P332378

CATALOG NUMBER: S123RDIP-S1165D1025U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	491.0	484.3	477.6	470.9	477.6	484.3	491.0	497.7	501.0	500.9	500.7
115°	584.2	585.1	586.0	586.9	586.0	585.1	584.2	583.4	581.8	579.6	577.4
117.5°	651.5	651.6	651.8	652.0	651.8	651.6	651.5	651.3	650.3	648.5	646.8
120°	696.7	696.7	696.7	696.7	696.7	696.7	696.7	696.7	695.8	694.0	692.3
122.5°	740.1	740.3	740.4	740.6	740.4	740.3	740.1	739.9	739.2	738.0	736.7
125°	801.2	801.6	802.1	802.5	802.1	801.6	801.2	800.7	800.3	799.8	799.4
127.5°	863.3	862.9	862.4	862.0	862.4	862.9	863.3	863.8	863.6	862.9	862.2
130°	901.7	901.2	900.8	900.3	900.8	901.2	901.7	902.1	901.9	901.0	900.1
132.5°	937.3	936.7	936.1	935.5	936.1	936.7	937.3	937.9	937.8	936.9	936.0
135°	991.2	990.5	989.8	989.2	989.8	990.5	991.2	991.8	991.8	991.2	990.5
137.5°	1041.0	1040.6	1040.1	1039.7	1040.1	1040.6	1041.0	1041.4	1041.1	1040.1	1039.0
140°	1071.3	1070.9	1070.5	1070.0	1070.5	1070.9	1071.3	1071.8	1071.6	1070.7	1069.8
142.5°	1099.8	1099.2	1098.6	1098.0	1098.6	1099.2	1099.8	1100.4	1100.4	1099.7	1099.0
145°	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.7	1140.2	1139.8
147.5°	1175.9	1174.9	1173.8	1172.8	1173.8	1174.9	1175.9	1176.9	1177.2	1176.7	1176.3
150°	1198.8	1198.1	1197.4	1196.8	1197.4	1198.1	1198.8	1199.4	1199.6	1199.1	1198.7
152.5°	1219.0	1218.0	1217.0	1215.9	1217.0	1218.0	1219.0	1220.0	1220.1	1219.3	1218.5
155°	1246.7	1245.4	1244.0	1242.7	1244.0	1245.4	1246.7	1248.0	1248.1	1247.0	1245.9
157.5°	1270.4	1268.7	1267.0	1265.3	1267.0	1268.7	1270.4	1272.2	1272.4	1271.0	1269.7
160°	1284.3	1282.7	1281.2	1279.6	1281.2	1282.7	1284.3	1285.8	1285.9	1284.6	1283.3
162.5°	1297.3	1295.9	1294.6	1293.2	1294.6	1295.9	1297.3	1298.7	1298.6	1297.1	1295.6
165°	1314.2	1312.7	1311.1	1309.6	1311.1	1312.7	1314.2	1315.8	1315.7	1313.9	1312.1
167.5°	1326.7	1324.9	1323.1	1321.3	1323.1	1324.9	1326.7	1328.4	1328.4	1326.7	1324.9
170°	1333.9	1332.1	1330.3	1328.5	1330.3	1332.1	1333.9	1335.6	1335.6	1333.9	1332.1
172.5°	1338.4	1336.4	1334.5	1332.5	1334.5	1336.4	1338.4	1340.3	1340.4	1338.6	1336.9
175°	1343.8	1342.1	1340.3	1338.5	1340.3	1342.1	1343.8	1345.6	1345.7	1344.2	1342.6
177.5°	1345.6	1343.9	1342.1	1340.3	1342.1	1343.9	1345.6	1347.4	1347.6	1346.2	1344.7
180°	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5



TEST NUMBER: P332378

CATALOG NUMBER: S123RDIP-S1165D1025U835-4F0-1E-UDD-A

**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°	26.3	25.5	25.6	24.4	23.2	22.0	19.6	19.8	19.3	21.4	20.3
90°	24.8	24.0	21.1	18.2	15.3	12.4	9.9	7.7	5.4	3.2	1.0
92.5°	27.0	25.6	23.4	21.2	19.0	16.9	16.1	16.7	17.3	17.9	18.6
95°	32.5	30.9	28.5	26.1	23.6	21.2	24.5	33.6	42.7	51.8	60.9
97.5°	33.9	32.1	48.1	64.1	80.1	96.0	106.0	110.1	114.2	118.3	122.4
100°	34.7	32.9	67.5	102.1	136.7	171.3	186.4	182.0	177.6	173.1	168.7
102.5°	60.2	65.7	103.5	141.3	179.1	216.9	234.2	231.0	227.8	224.6	221.4
105°	179.3	218.6	238.6	258.5	278.5	298.4	307.2	304.8	302.3	299.9	297.4
107.5°	371.9	400.7	397.5	394.4	391.2	388.1	385.5	383.6	381.6	379.7	377.7
110°	442.8	450.2	447.7	445.3	442.8	440.4	438.3	436.5	434.7	433.0	431.2



TEST NUMBER: P332378

CATALOG NUMBER: S123RDIP-S1165D1025U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	500.6	500.5	498.0	495.6	493.2	490.7	488.7	487.1	485.5	483.9	482.3
115°	575.2	572.9	570.9	568.9	566.9	565.0	563.3	562.0	560.6	559.3	558.0
117.5°	645.0	643.2	642.2	641.2	640.1	639.1	637.8	636.2	634.5	632.9	631.2
120°	690.5	688.7	688.1	687.4	686.7	686.1	684.7	682.7	680.7	678.7	676.7
122.5°	735.5	734.2	733.4	732.6	731.7	730.9	729.6	728.0	726.3	724.7	723.1
125°	799.0	798.5	797.6	796.7	795.9	795.0	793.6	791.9	790.1	788.3	786.5
127.5°	861.5	860.8	859.7	858.7	857.6	856.5	855.1	853.3	851.6	849.8	848.0
130°	899.2	898.3	897.4	896.6	895.7	894.8	893.5	891.7	889.9	888.1	886.4
132.5°	935.2	934.3	933.6	932.8	932.1	931.4	930.2	928.4	926.6	924.9	923.1
135°	989.8	989.2	988.3	987.4	986.5	985.6	984.5	983.2	981.8	980.5	979.2
137.5°	1037.9	1036.9	1036.4	1035.9	1035.4	1034.9	1033.8	1032.2	1030.5	1028.8	1027.1
140°	1068.9	1068.0	1067.4	1066.7	1066.0	1065.4	1064.4	1063.0	1061.7	1060.4	1059.0
142.5°	1098.3	1097.6	1096.9	1096.2	1095.6	1094.9	1093.9	1092.6	1091.2	1089.9	1088.6
145°	1139.3	1138.9	1138.4	1138.0	1137.6	1137.1	1136.1	1134.6	1133.0	1131.5	1129.9
147.5°	1175.9	1175.4	1175.0	1174.5	1174.1	1173.6	1172.9	1171.9	1170.9	1169.9	1168.8
150°	1198.2	1197.8	1197.3	1196.9	1196.4	1196.0	1195.4	1194.8	1194.1	1193.5	1192.8
152.5°	1217.7	1216.9	1216.7	1216.4	1216.1	1215.9	1215.6	1215.3	1215.0	1214.7	1214.3
155°	1244.8	1243.7	1243.5	1243.2	1243.0	1242.8	1242.9	1243.4	1243.8	1244.2	1244.7
157.5°	1268.4	1267.0	1267.3	1267.5	1267.7	1267.9	1268.1	1268.1	1268.2	1268.2	1268.2
160°	1282.0	1280.6	1280.8	1281.1	1281.3	1281.5	1281.7	1282.0	1282.2	1282.4	1282.6
162.5°	1294.1	1292.6	1292.8	1293.0	1293.3	1293.5	1293.9	1294.5	1295.0	1295.6	1296.2
165°	1310.3	1308.6	1308.8	1309.0	1309.2	1309.5	1309.9	1310.6	1311.2	1311.9	1312.6
167.5°	1323.1	1321.3	1321.3	1321.3	1321.3	1321.3	1321.8	1322.7	1323.6	1324.5	1325.3
170°	1330.3	1328.5	1328.5	1328.5	1328.5	1328.5	1329.0	1329.9	1330.8	1331.6	1332.5
172.5°	1335.1	1333.3	1333.1	1333.0	1332.8	1332.6	1333.1	1334.1	1335.2	1336.3	1337.3
175°	1341.1	1339.5	1339.3	1339.1	1338.8	1338.6	1339.1	1340.2	1341.3	1342.4	1343.5
177.5°	1343.3	1341.9	1341.7	1341.6	1341.4	1341.2	1341.6	1342.4	1343.3	1344.2	1345.1
180°	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5



TEST NUMBER: P332378

CATALOG NUMBER: S123RDIP-S1165D1025U835-4F0-1E-UDD-A

**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	13.7	13.0	13.0	13.8	12.7
90°	3.2	5.4	7.7	9.9	12.4	15.3	18.2	21.1	24.0	24.8	25.7
92.5°	17.9	17.3	16.7	16.1	16.9	19.0	21.2	23.4	25.6	27.0	28.4
95°	51.8	42.7	33.6	24.5	21.2	23.6	26.1	28.5	30.9	32.5	34.0
97.5°	118.3	114.2	110.1	106.0	96.0	80.1	64.1	48.1	32.1	33.9	35.7
100°	173.1	177.6	182.0	186.4	171.3	136.7	102.1	67.5	32.9	34.7	36.5
102.5°	224.6	227.8	231.0	234.2	216.9	179.1	141.3	103.5	65.7	60.2	54.7
105°	299.9	302.3	304.8	307.2	298.4	278.5	258.5	238.6	218.6	179.3	140.1
107.5°	379.7	381.6	383.6	385.5	388.1	391.2	394.4	397.5	400.7	371.9	343.1
110°	433.0	434.7	436.5	438.3	440.4	442.8	445.3	447.7	450.2	442.8	435.5





TEST NUMBER: P332378

CATALOG NUMBER: S123RDIP-S1165D1025U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	483.9	485.5	487.1	488.7	490.7	493.2	495.6	498.0	500.5	500.6	500.7
115°	559.3	560.6	562.0	563.3	565.0	566.9	568.9	570.9	572.9	575.2	577.4
117.5°	632.9	634.5	636.2	637.8	639.1	640.1	641.2	642.2	643.2	645.0	646.8
120°	678.7	680.7	682.7	684.7	686.1	686.7	687.4	688.1	688.7	690.5	692.3
122.5°	724.7	726.3	728.0	729.6	730.9	731.7	732.6	733.4	734.2	735.5	736.7
125°	788.3	790.1	791.9	793.6	795.0	795.9	796.7	797.6	798.5	799.0	799.4
127.5°	849.8	851.6	853.3	855.1	856.5	857.6	858.7	859.7	860.8	861.5	862.2
130°	888.1	889.9	891.7	893.5	894.8	895.7	896.6	897.4	898.3	899.2	900.1
132.5°	924.9	926.6	928.4	930.2	931.4	932.1	932.8	933.6	934.3	935.2	936.0
135°	980.5	981.8	983.2	984.5	985.6	986.5	987.4	988.3	989.2	989.8	990.5
137.5°	1028.8	1030.5	1032.2	1033.8	1034.9	1035.4	1035.9	1036.4	1036.9	1037.9	1039.0
140°	1060.4	1061.7	1063.0	1064.4	1065.4	1066.0	1066.7	1067.4	1068.0	1068.9	1069.8
142.5°	1089.9	1091.2	1092.6	1093.9	1094.9	1095.6	1096.2	1096.9	1097.6	1098.3	1099.0
145°	1131.5	1133.0	1134.6	1136.1	1137.1	1137.6	1138.0	1138.4	1138.9	1139.3	1139.8
147.5°	1169.9	1170.9	1171.9	1172.9	1173.6	1174.1	1174.5	1175.0	1175.4	1175.9	1176.3
150°	1193.5	1194.1	1194.8	1195.4	1196.0	1196.4	1196.9	1197.3	1197.8	1198.2	1198.7
152.5°	1214.7	1215.0	1215.3	1215.6	1215.9	1216.1	1216.4	1216.7	1216.9	1217.7	1218.5
155°	1244.2	1243.8	1243.4	1242.9	1242.8	1243.0	1243.2	1243.5	1243.7	1244.8	1245.9
157.5°	1268.2	1268.2	1268.1	1268.1	1267.9	1267.7	1267.5	1267.3	1267.0	1268.4	1269.7
160°	1282.4	1282.2	1282.0	1281.7	1281.5	1281.3	1281.1	1280.8	1280.6	1282.0	1283.3
162.5°	1295.6	1295.0	1294.5	1293.9	1293.5	1293.3	1293.0	1292.8	1292.6	1294.1	1295.6
165°	1311.9	1311.2	1310.6	1309.9	1309.5	1309.2	1309.0	1308.8	1308.6	1310.3	1312.1
167.5°	1324.5	1323.6	1322.7	1321.8	1321.3	1321.3	1321.3	1321.3	1321.3	1323.1	1324.9
170°	1331.6	1330.8	1329.9	1329.0	1328.5	1328.5	1328.5	1328.5	1328.5	1330.3	1332.1
172.5°	1336.3	1335.2	1334.1	1333.1	1332.6	1332.8	1333.0	1333.1	1333.3	1335.1	1336.9
175°	1342.4	1341.3	1340.2	1339.1	1338.6	1338.8	1339.1	1339.3	1339.5	1341.1	1342.6
177.5°	1344.2	1343.3	1342.4	1341.6	1341.2	1341.4	1341.6	1341.7	1341.9	1343.3	1344.7
180°	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5



TEST NUMBER: P332378

CATALOG NUMBER: S123RDIP-S1165D1025U835-4F0-1E-UDD-A

**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	13.0	12.6	12.6	12.1	13.4	12.3
90°	26.6	27.5	28.2	28.6	29.1	29.5	29.9
92.5°	29.8	31.2	32.1	32.3	32.6	32.9	33.1
95°	35.6	37.2	37.9	37.9	37.9	37.9	37.9
97.5°	37.5	39.2	40.2	40.5	40.7	40.9	41.1
100°	38.3	40.0	41.0	41.3	41.5	41.7	41.9
102.5°	49.2	43.7	41.1	41.5	41.9	42.3	42.7
105°	100.8	61.6	42.1	42.6	43.0	43.5	43.9
107.5°	314.3	285.5	256.3	226.7	197.1	167.5	137.9
110°	428.2	420.9	401.4	369.6	337.9	306.2	274.5



TEST NUMBER: P332378

CATALOG NUMBER: S123RDIP-S1165D1025U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	500.9	501.0	497.7	491.0	484.3	477.6	470.9
115°	579.6	581.8	583.4	584.2	585.1	586.0	586.9
117.5°	648.5	650.3	651.3	651.5	651.6	651.8	652.0
120°	694.0	695.8	696.7	696.7	696.7	696.7	696.7
122.5°	738.0	739.2	739.9	740.1	740.3	740.4	740.6
125°	799.8	800.3	800.7	801.2	801.6	802.1	802.5
127.5°	862.9	863.6	863.8	863.3	862.9	862.4	862.0
130°	901.0	901.9	902.1	901.7	901.2	900.8	900.3
132.5°	936.9	937.8	937.9	937.3	936.7	936.1	935.5
135°	991.2	991.8	991.8	991.2	990.5	989.8	989.2
137.5°	1040.1	1041.1	1041.4	1041.0	1040.6	1040.1	1039.7
140°	1070.7	1071.6	1071.8	1071.3	1070.9	1070.5	1070.0
142.5°	1099.7	1100.4	1100.4	1099.8	1099.2	1098.6	1098.0
145°	1140.2	1140.7	1140.9	1140.9	1140.9	1140.9	1140.9
147.5°	1176.7	1177.2	1176.9	1175.9	1174.9	1173.8	1172.8
150°	1199.1	1199.6	1199.4	1198.8	1198.1	1197.4	1196.8
152.5°	1219.3	1220.1	1220.0	1219.0	1218.0	1217.0	1215.9
155°	1247.0	1248.1	1248.0	1246.7	1245.4	1244.0	1242.7
157.5°	1271.0	1272.4	1272.2	1270.4	1268.7	1267.0	1265.3
160°	1284.6	1285.9	1285.8	1284.3	1282.7	1281.2	1279.6
162.5°	1297.1	1298.6	1298.7	1297.3	1295.9	1294.6	1293.2
165°	1313.9	1315.7	1315.8	1314.2	1312.7	1311.1	1309.6
167.5°	1326.7	1328.4	1328.4	1326.7	1324.9	1323.1	1321.3
170°	1333.9	1335.6	1335.6	1333.9	1332.1	1330.3	1328.5
172.5°	1338.6	1340.4	1340.3	1338.4	1336.4	1334.5	1332.5
175°	1344.2	1345.7	1345.6	1343.8	1342.1	1340.3	1338.5
177.5°	1346.2	1347.6	1347.4	1345.6	1343.9	1342.1	1340.3
180°	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5

(END OF REPORT)