

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: P332386

Luminaire Tested: **S123RDIP-S1165D1195U835-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332386  
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: S123RDIP-S1165D1195U835-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1195 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

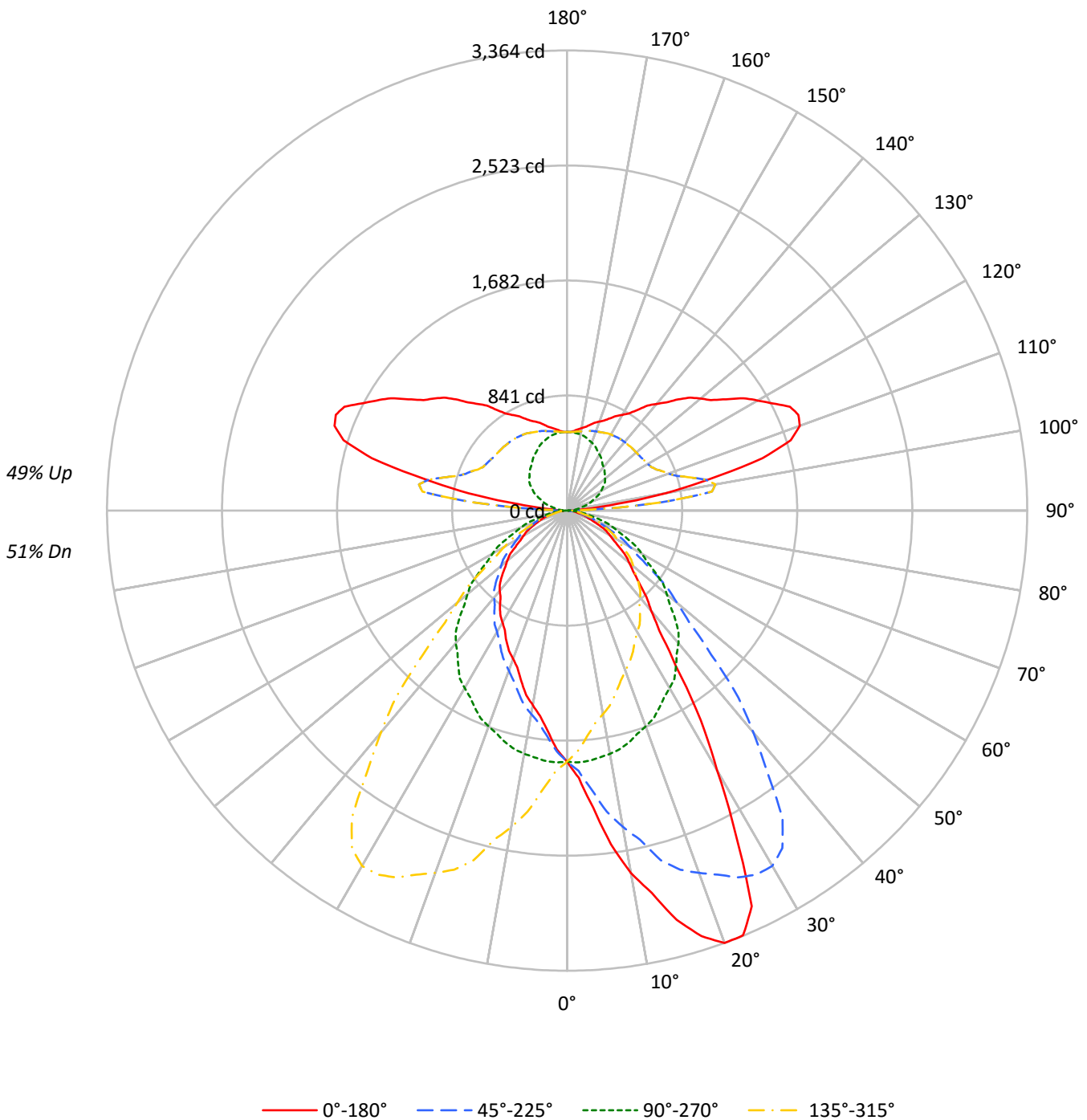
Lumens per Lamp: N/A  
Luminaire Lumens: 8894.0 lumens  
Efficiency: N/A  
Efficacy: 124.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 71.7  
Input Voltage (V): 120  
Input Current (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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	99	95	91	88	91	88	85	82	75	72	70	63	61	60	52	51	50	45
2	90	83	77	73	83	77	72	68	66	62	59	56	53	51	46	44	43	38
3	83	74	67	61	76	69	62	58	59	54	50	50	46	44	41	39	37	33
4	76	66	58	52	70	61	54	49	53	48	44	45	41	38	37	35	32	29
5	70	59	51	45	65	55	48	43	47	42	38	40	36	33	34	31	29	25
6	65	53	45	39	60	49	42	37	43	37	33	37	33	29	31	28	25	23
7	60	48	40	35	55	45	38	33	39	34	30	34	29	26	28	25	23	20
8	56	44	36	31	52	41	34	29	36	30	26	31	27	23	26	23	21	18
9	52	40	33	28	48	38	31	26	33	28	24	28	24	21	24	21	19	17
10	49	37	30	25	45	35	28	24	30	25	22	26	22	19	23	19	17	15

**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	2.0
10°-20°	564.1	6.3
20°-30°	886.2	10.0
30°-40°	924.6	10.4
40°-50°	791.2	8.9
50°-60°	603.1	6.8
60°-70°	386.5	4.3
70°-80°	186.0	2.1
80°-90°	53.7	0.6
90°-100°	319.4	3.6
100°-110°	904.4	10.2
110°-120°	889.7	10.0
120°-130°	709.7	8.0
130°-140°	559.5	6.3
140°-150°	417.6	4.7
150°-160°	291.1	3.3
160°-170°	171.0	1.9
170°-180°	55.6	0.6
0°-30°	1630.8	18.3
0°-40°	2555.4	28.7
0°-60°	3949.7	44.4
0°-90°	4575.8	51.4
90°-120°	2113.6	23.8
90°-150°	3800.4	42.7
90°-180°	4318.0	48.5
0°-180°	8894.0	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	32
90°	34	2	34	2	34	19
95°	135	40	135	40	135	243
105°	1478	135	1478	135	1478	1458
115°	1797	238	1797	238	1797	1746
125°	1418	331	1418	331	1418	1285
135°	1149	388	1149	388	1149	891
145°	898	443	898	443	898	571
155°	745	503	745	503	745	347
165°	650	550	650	550	650	186
175°	584	573	584	573	584	57
180°	574	574	574	574	574	



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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°	13.0	14.5	13.0	13.4	13.7	13.8	13.6	13.4	14.4	14.0	13.9
90°	33.7	34.9	33.7	32.5	33.7	31.4	30.2	29.0	27.9	29.0	25.6
92.5°	56.0	58.1	56.9	60.4	62.5	68.5	77.6	97.8	134.8	178.7	196.6
95°	134.8	139.4	147.6	158.0	180.1	221.9	283.5	418.3	558.8	689.0	613.5
97.5°	366.9	376.9	408.3	460.6	546.3	685.3	835.1	1042.6	1142.3	1067.7	781.7
100°	728.5	727.3	772.6	857.4	974.8	1139.8	1275.7	1369.8	1329.2	1100.3	743.6
102.5°	1068.7	1095.4	1133.3	1200.4	1291.7	1396.3	1475.5	1478.6	1338.4	1039.9	687.8
105°	1477.9	1483.7	1520.9	1565.0	1618.5	1648.7	1626.6	1510.4	1267.6	934.1	619.3
107.5°	1713.5	1724.2	1736.7	1751.6	1750.7	1709.3	1607.5	1418.8	1143.5	840.7	575.6
110°	1810.2	1812.5	1814.8	1805.5	1773.0	1691.7	1545.3	1331.5	1065.4	787.7	558.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1829.7	1829.2	1820.4	1791.6	1732.1	1627.5	1463.5	1245.0	997.6	752.4	549.6
115°	1797.4	1791.6	1768.3	1717.2	1630.1	1503.4	1332.6	1130.5	915.5	714.5	546.1
117.5°	1694.7	1686.8	1653.3	1594.8	1503.9	1375.4	1222.0	1047.5	866.0	692.2	548.2
120°	1609.2	1602.2	1574.3	1509.2	1417.5	1300.1	1160.7	1003.8	840.0	682.0	551.9
122.5°	1529.2	1520.4	1489.7	1431.2	1349.6	1240.6	1111.4	969.4	818.6	675.5	558.4
125°	1417.5	1409.3	1380.3	1329.2	1254.8	1161.8	1050.3	923.7	791.2	666.9	568.1
127.5°	1325.4	1318.0	1291.7	1248.1	1181.8	1097.2	996.6	883.7	767.1	662.7	579.3
130°	1273.4	1264.1	1239.7	1197.9	1136.3	1057.3	963.2	858.6	754.0	659.9	586.7
132.5°	1222.3	1215.8	1194.1	1152.3	1094.5	1019.2	931.6	835.4	742.0	659.0	592.3
135°	1149.1	1140.9	1120.0	1085.2	1028.2	962.0	886.5	804.0	726.2	657.6	600.7
137.5°	1071.7	1066.3	1048.7	1013.4	965.5	908.1	843.0	775.4	712.4	655.0	606.3
140°	1017.8	1018.9	1000.4	967.8	923.7	873.7	817.9	758.7	704.1	654.1	610.0
142.5°	967.6	968.7	952.0	923.2	885.6	842.1	793.8	742.9	696.6	652.3	612.8
145°	898.1	895.8	886.5	862.1	833.0	799.4	762.2	723.8	686.7	649.5	614.6
147.5°	840.9	840.0	831.2	814.7	792.6	768.7	738.7	708.3	676.9	645.1	614.6
150°	807.5	807.5	800.5	787.7	770.3	748.2	723.8	697.1	670.4	641.3	614.6
152.5°	779.6	779.6	775.4	763.6	749.9	731.5	709.9	686.9	663.0	636.7	611.8
155°	744.7	743.6	741.3	732.0	721.5	707.6	690.1	671.5	651.8	628.6	608.8
157.5°	712.9	713.1	711.3	704.3	695.2	684.3	670.9	655.3	639.2	621.4	604.9
160°	692.5	693.6	693.6	686.7	678.5	670.4	658.8	646.0	630.9	615.8	603.0
162.5°	673.9	675.0	675.0	669.0	663.6	656.4	645.8	634.8	622.5	610.2	599.3
165°	649.5	649.5	650.6	646.0	641.3	635.5	627.4	620.4	611.1	601.8	593.7
167.5°	626.2	626.2	627.4	624.1	622.1	617.9	613.2	607.9	600.2	593.5	588.1
170°	612.3	612.3	613.5	611.1	610.0	607.6	603.0	599.5	593.7	587.9	584.4
172.5°	599.3	600.2	602.3	600.0	599.7	598.4	594.6	592.1	587.2	583.2	581.6
175°	584.4	585.6	586.7	585.6	585.6	585.6	583.2	582.1	579.8	577.4	577.4
177.5°	575.8	575.8	577.7	576.7	577.7	577.7	576.7	575.8	574.9	574.0	574.9
180°	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0



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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°	14.5	13.1	13.7	13.2	14.7	14.6	17.9	20.6	21.7	19.6	20.3
90°	22.1	18.6	15.1	12.8	10.5	7.0	4.6	2.3	4.6	7.0	10.5
92.5°	147.6	97.6	67.2	50.0	40.2	31.1	21.4	14.4	21.4	31.1	40.2
95°	422.9	249.8	151.0	105.7	75.5	55.8	43.0	39.5	43.0	55.8	75.5
97.5°	464.0	268.9	174.5	125.5	95.7	78.5	68.5	67.4	68.5	78.5	95.7
100°	438.0	266.1	184.7	139.4	111.5	95.3	87.1	86.0	87.1	95.3	111.5
102.5°	415.7	269.8	196.8	155.2	130.1	114.8	107.6	105.5	107.6	114.8	130.1
105°	399.7	280.0	217.3	181.2	159.2	145.2	138.3	134.8	138.3	145.2	159.2
107.5°	398.5	299.1	244.0	210.5	189.8	176.1	169.4	165.9	169.4	176.1	189.8
110°	403.2	314.9	262.6	230.0	210.3	197.5	191.7	188.2	191.7	197.5	210.3





TEST NUMBER: P332386

CATALOG NUMBER: S123RDIP-S1165D1195U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	412.5	330.7	282.1	250.5	230.7	218.0	212.2	208.7	212.2	218.0	230.7
115°	427.6	356.7	312.5	281.2	261.4	249.8	242.8	238.2	242.8	249.8	261.4
117.5°	447.5	384.3	340.7	311.6	289.5	278.8	273.0	267.7	273.0	278.8	289.5
120°	462.4	402.0	360.2	331.1	309.1	297.4	291.6	288.1	291.6	297.4	309.1
122.5°	476.4	420.6	379.7	348.8	327.6	315.1	309.3	305.8	309.3	315.1	327.6
125°	498.4	447.3	406.6	375.3	353.2	340.4	333.5	331.1	333.5	340.4	353.2
127.5°	516.6	470.5	431.3	399.9	375.5	362.5	353.9	350.4	353.9	362.5	375.5
130°	528.6	484.5	446.1	414.8	390.4	376.4	366.0	362.5	366.0	376.4	390.4
132.5°	539.8	496.6	459.2	428.7	404.3	387.6	376.2	371.8	376.2	387.6	404.3
135°	554.2	514.7	478.7	447.3	422.9	405.5	392.7	388.1	392.7	405.5	422.9
137.5°	564.9	527.2	492.6	463.6	439.4	420.8	408.3	403.4	408.3	420.8	439.4
140°	570.5	535.6	501.9	472.9	449.6	431.0	419.4	413.6	419.4	431.0	449.6
142.5°	576.0	542.1	509.4	482.2	458.9	442.2	429.7	424.8	429.7	442.2	458.9
145°	582.1	550.7	520.5	493.8	474.0	456.6	446.1	442.7	446.1	456.6	474.0
147.5°	585.8	557.7	530.0	507.3	488.2	473.1	462.9	460.8	462.9	473.1	488.2
150°	586.7	562.3	535.6	514.7	498.4	483.3	474.0	472.9	474.0	483.3	498.4
152.5°	588.6	565.1	542.1	522.1	507.7	494.5	485.2	485.0	485.2	494.5	507.7
155°	589.1	570.5	550.7	534.4	521.7	510.1	503.1	503.1	503.1	510.1	521.7
157.5°	590.2	573.5	557.7	545.1	534.2	524.0	518.4	517.5	518.4	524.0	534.2
160°	590.2	576.3	562.3	550.7	542.6	533.3	528.6	528.6	528.6	533.3	542.6
162.5°	589.3	577.2	565.1	555.4	548.2	540.7	537.0	537.0	537.0	540.7	548.2
165°	586.7	578.6	569.3	561.2	556.5	550.7	548.4	549.6	548.4	550.7	556.5
167.5°	584.9	578.4	571.6	566.5	563.3	558.8	557.7	559.1	557.7	558.8	563.3
170°	582.1	577.4	571.6	569.3	567.0	563.5	562.3	564.7	562.3	563.5	567.0
172.5°	581.2	577.4	572.6	571.2	569.8	567.2	567.0	568.4	567.0	567.2	569.8
175°	578.6	576.3	574.0	572.8	572.8	570.5	571.6	572.8	571.6	570.5	572.8
177.5°	576.7	574.9	574.0	574.0	574.0	573.0	574.0	574.9	574.0	573.0	574.0
180°	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0



TEST NUMBER: P332386

CATALOG NUMBER: S123RDIP-S1165D1195U835-4F0-1E-UDD-A4

**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°	20.2	22.5	23.8	25.2	26.5	26.6	27.0	27.2	28.0	28.3	28.7
90°	12.8	15.1	18.6	22.1	25.6	29.0	27.9	29.0	30.2	31.4	33.7
92.5°	50.0	67.2	97.6	147.6	196.6	178.7	134.8	97.8	77.6	68.5	62.5
95°	105.7	151.0	249.8	422.9	613.5	689.0	558.8	418.3	283.5	221.9	180.1
97.5°	125.5	174.5	268.9	464.0	781.7	1067.7	1142.3	1042.6	835.1	685.3	546.3
100°	139.4	184.7	266.1	438.0	743.6	1100.3	1329.2	1369.8	1275.7	1139.8	974.8
102.5°	155.2	196.8	269.8	415.7	687.8	1039.9	1338.4	1478.6	1475.5	1396.3	1291.7
105°	181.2	217.3	280.0	399.7	619.3	934.1	1267.6	1510.4	1626.6	1648.7	1618.5
107.5°	210.5	244.0	299.1	398.5	575.6	840.7	1143.5	1418.8	1607.5	1709.3	1750.7
110°	230.0	262.6	314.9	403.2	558.8	787.7	1065.4	1331.5	1545.3	1691.7	1773.0



TEST NUMBER: P332386

CATALOG NUMBER: S123RDIP-S1165D1195U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	250.5	282.1	330.7	412.5	549.6	752.4	997.6	1245.0	1463.5	1627.5	1732.1
115°	281.2	312.5	356.7	427.6	546.1	714.5	915.5	1130.5	1332.6	1503.4	1630.1
117.5°	311.6	340.7	384.3	447.5	548.2	692.2	866.0	1047.5	1222.0	1375.4	1503.9
120°	331.1	360.2	402.0	462.4	551.9	682.0	840.0	1003.8	1160.7	1300.1	1417.5
122.5°	348.8	379.7	420.6	476.4	558.4	675.5	818.6	969.4	1111.4	1240.6	1349.6
125°	375.3	406.6	447.3	498.4	568.1	666.9	791.2	923.7	1050.3	1161.8	1254.8
127.5°	399.9	431.3	470.5	516.6	579.3	662.7	767.1	883.7	996.6	1097.2	1181.8
130°	414.8	446.1	484.5	528.6	586.7	659.9	754.0	858.6	963.2	1057.3	1136.3
132.5°	428.7	459.2	496.6	539.8	592.3	659.0	742.0	835.4	931.6	1019.2	1094.5
135°	447.3	478.7	514.7	554.2	600.7	657.6	726.2	804.0	886.5	962.0	1028.2
137.5°	463.6	492.6	527.2	564.9	606.3	655.0	712.4	775.4	843.0	908.1	965.5
140°	472.9	501.9	535.6	570.5	610.0	654.1	704.1	758.7	817.9	873.7	923.7
142.5°	482.2	509.4	542.1	576.0	612.8	652.3	696.6	742.9	793.8	842.1	885.6
145°	493.8	520.5	550.7	582.1	614.6	649.5	686.7	723.8	762.2	799.4	833.0
147.5°	507.3	530.0	557.7	585.8	614.6	645.1	676.9	708.3	738.7	768.7	792.6
150°	514.7	535.6	562.3	586.7	614.6	641.3	670.4	697.1	723.8	748.2	770.3
152.5°	522.1	542.1	565.1	588.6	611.8	636.7	663.0	686.9	709.9	731.5	749.9
155°	534.4	550.7	570.5	589.1	608.8	628.6	651.8	671.5	690.1	707.6	721.5
157.5°	545.1	557.7	573.5	590.2	604.9	621.4	639.2	655.3	670.9	684.3	695.2
160°	550.7	562.3	576.3	590.2	603.0	615.8	630.9	646.0	658.8	670.4	678.5
162.5°	555.4	565.1	577.2	589.3	599.3	610.2	622.5	634.8	645.8	656.4	663.6
165°	561.2	569.3	578.6	586.7	593.7	601.8	611.1	620.4	627.4	635.5	641.3
167.5°	566.5	571.6	578.4	584.9	588.1	593.5	600.2	607.9	613.2	617.9	622.1
170°	569.3	571.6	577.4	582.1	584.4	587.9	593.7	599.5	603.0	607.6	610.0
172.5°	571.2	572.6	577.4	581.2	581.6	583.2	587.2	592.1	594.6	598.4	599.7
175°	572.8	574.0	576.3	578.6	577.4	577.4	579.8	582.1	583.2	585.6	585.6
177.5°	574.0	574.0	574.9	576.7	574.9	574.0	574.9	575.8	576.7	577.7	577.7
180°	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0



TEST NUMBER: P332386

CATALOG NUMBER: S123RDIP-S1165D1195U835-4F0-1E-UDD-A4

**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°	29.8	28.7	29.0	29.4	29.0	28.7	29.8	28.7	28.3	28.0	27.2
90°	32.5	33.7	34.9	33.7	34.9	33.7	32.5	33.7	31.4	30.2	29.0
92.5°	60.4	56.9	58.1	56.0	58.1	56.9	60.4	62.5	68.5	77.6	97.8
95°	158.0	147.6	139.4	134.8	139.4	147.6	158.0	180.1	221.9	283.5	418.3
97.5°	460.6	408.3	376.9	366.9	376.9	408.3	460.6	546.3	685.3	835.1	1042.6
100°	857.4	772.6	727.3	728.5	727.3	772.6	857.4	974.8	1139.8	1275.7	1369.8
102.5°	1200.4	1133.3	1095.4	1068.7	1095.4	1133.3	1200.4	1291.7	1396.3	1475.5	1478.6
105°	1565.0	1520.9	1483.7	1477.9	1483.7	1520.9	1565.0	1618.5	1648.7	1626.6	1510.4
107.5°	1751.6	1736.7	1724.2	1713.5	1724.2	1736.7	1751.6	1750.7	1709.3	1607.5	1418.8
110°	1805.5	1814.8	1812.5	1810.2	1812.5	1814.8	1805.5	1773.0	1691.7	1545.3	1331.5



TEST NUMBER: P332386

CATALOG NUMBER: S123RDIP-S1165D1195U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1791.6	1820.4	1829.2	1829.7	1829.2	1820.4	1791.6	1732.1	1627.5	1463.5	1245.0
115°	1717.2	1768.3	1791.6	1797.4	1791.6	1768.3	1717.2	1630.1	1503.4	1332.6	1130.5
117.5°	1594.8	1653.3	1686.8	1694.7	1686.8	1653.3	1594.8	1503.9	1375.4	1222.0	1047.5
120°	1509.2	1574.3	1602.2	1609.2	1602.2	1574.3	1509.2	1417.5	1300.1	1160.7	1003.8
122.5°	1431.2	1489.7	1520.4	1529.2	1520.4	1489.7	1431.2	1349.6	1240.6	1111.4	969.4
125°	1329.2	1380.3	1409.3	1417.5	1409.3	1380.3	1329.2	1254.8	1161.8	1050.3	923.7
127.5°	1248.1	1291.7	1318.0	1325.4	1318.0	1291.7	1248.1	1181.8	1097.2	996.6	883.7
130°	1197.9	1239.7	1264.1	1273.4	1264.1	1239.7	1197.9	1136.3	1057.3	963.2	858.6
132.5°	1152.3	1194.1	1215.8	1222.3	1215.8	1194.1	1152.3	1094.5	1019.2	931.6	835.4
135°	1085.2	1120.0	1140.9	1149.1	1140.9	1120.0	1085.2	1028.2	962.0	886.5	804.0
137.5°	1013.4	1048.7	1066.3	1071.7	1066.3	1048.7	1013.4	965.5	908.1	843.0	775.4
140°	967.8	1000.4	1018.9	1017.8	1018.9	1000.4	967.8	923.7	873.7	817.9	758.7
142.5°	923.2	952.0	968.7	967.6	968.7	952.0	923.2	885.6	842.1	793.8	742.9
145°	862.1	886.5	895.8	898.1	895.8	886.5	862.1	833.0	799.4	762.2	723.8
147.5°	814.7	831.2	840.0	840.9	840.0	831.2	814.7	792.6	768.7	738.7	708.3
150°	787.7	800.5	807.5	807.5	807.5	800.5	787.7	770.3	748.2	723.8	697.1
152.5°	763.6	775.4	779.6	779.6	779.6	775.4	763.6	749.9	731.5	709.9	686.9
155°	732.0	741.3	743.6	744.7	743.6	741.3	732.0	721.5	707.6	690.1	671.5
157.5°	704.3	711.3	713.1	712.9	713.1	711.3	704.3	695.2	684.3	670.9	655.3
160°	686.7	693.6	693.6	692.5	693.6	693.6	686.7	678.5	670.4	658.8	646.0
162.5°	669.0	675.0	675.0	673.9	675.0	675.0	669.0	663.6	656.4	645.8	634.8
165°	646.0	650.6	649.5	649.5	649.5	650.6	646.0	641.3	635.5	627.4	620.4
167.5°	624.1	627.4	626.2	626.2	626.2	627.4	624.1	622.1	617.9	613.2	607.9
170°	611.1	613.5	612.3	612.3	612.3	613.5	611.1	610.0	607.6	603.0	599.5
172.5°	600.0	602.3	600.2	599.3	600.2	602.3	600.0	599.7	598.4	594.6	592.1
175°	585.6	586.7	585.6	584.4	585.6	586.7	585.6	585.6	585.6	583.2	582.1
177.5°	576.7	577.7	575.8	575.8	575.8	577.7	576.7	577.7	577.7	576.7	575.8
180°	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0



TEST NUMBER: P332386

CATALOG NUMBER: S123RDIP-S1165D1195U835-4F0-1E-UDD-A4

**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°	27.0	26.6	26.5	25.2	23.8	22.5	20.2	20.3	19.6	21.7	20.6
90°	27.9	29.0	25.6	22.1	18.6	15.1	12.8	10.5	7.0	4.6	2.3
92.5°	134.8	178.7	196.6	147.6	97.6	67.2	50.0	40.2	31.1	21.4	14.4
95°	558.8	689.0	613.5	422.9	249.8	151.0	105.7	75.5	55.8	43.0	39.5
97.5°	1142.3	1067.7	781.7	464.0	268.9	174.5	125.5	95.7	78.5	68.5	67.4
100°	1329.2	1100.3	743.6	438.0	266.1	184.7	139.4	111.5	95.3	87.1	86.0
102.5°	1338.4	1039.9	687.8	415.7	269.8	196.8	155.2	130.1	114.8	107.6	105.5
105°	1267.6	934.1	619.3	399.7	280.0	217.3	181.2	159.2	145.2	138.3	134.8
107.5°	1143.5	840.7	575.6	398.5	299.1	244.0	210.5	189.8	176.1	169.4	165.9
110°	1065.4	787.7	558.8	403.2	314.9	262.6	230.0	210.3	197.5	191.7	188.2



TEST NUMBER: P332386

CATALOG NUMBER: S123RDIP-S1165D1195U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	997.6	752.4	549.6	412.5	330.7	282.1	250.5	230.7	218.0	212.2	208.7
115°	915.5	714.5	546.1	427.6	356.7	312.5	281.2	261.4	249.8	242.8	238.2
117.5°	866.0	692.2	548.2	447.5	384.3	340.7	311.6	289.5	278.8	273.0	267.7
120°	840.0	682.0	551.9	462.4	402.0	360.2	331.1	309.1	297.4	291.6	288.1
122.5°	818.6	675.5	558.4	476.4	420.6	379.7	348.8	327.6	315.1	309.3	305.8
125°	791.2	666.9	568.1	498.4	447.3	406.6	375.3	353.2	340.4	333.5	331.1
127.5°	767.1	662.7	579.3	516.6	470.5	431.3	399.9	375.5	362.5	353.9	350.4
130°	754.0	659.9	586.7	528.6	484.5	446.1	414.8	390.4	376.4	366.0	362.5
132.5°	742.0	659.0	592.3	539.8	496.6	459.2	428.7	404.3	387.6	376.2	371.8
135°	726.2	657.6	600.7	554.2	514.7	478.7	447.3	422.9	405.5	392.7	388.1
137.5°	712.4	655.0	606.3	564.9	527.2	492.6	463.6	439.4	420.8	408.3	403.4
140°	704.1	654.1	610.0	570.5	535.6	501.9	472.9	449.6	431.0	419.4	413.6
142.5°	696.6	652.3	612.8	576.0	542.1	509.4	482.2	458.9	442.2	429.7	424.8
145°	686.7	649.5	614.6	582.1	550.7	520.5	493.8	474.0	456.6	446.1	442.7
147.5°	676.9	645.1	614.6	585.8	557.7	530.0	507.3	488.2	473.1	462.9	460.8
150°	670.4	641.3	614.6	586.7	562.3	535.6	514.7	498.4	483.3	474.0	472.9
152.5°	663.0	636.7	611.8	588.6	565.1	542.1	522.1	507.7	494.5	485.2	485.0
155°	651.8	628.6	608.8	589.1	570.5	550.7	534.4	521.7	510.1	503.1	503.1
157.5°	639.2	621.4	604.9	590.2	573.5	557.7	545.1	534.2	524.0	518.4	517.5
160°	630.9	615.8	603.0	590.2	576.3	562.3	550.7	542.6	533.3	528.6	528.6
162.5°	622.5	610.2	599.3	589.3	577.2	565.1	555.4	548.2	540.7	537.0	537.0
165°	611.1	601.8	593.7	586.7	578.6	569.3	561.2	556.5	550.7	548.4	549.6
167.5°	600.2	593.5	588.1	584.9	578.4	571.6	566.5	563.3	558.8	557.7	559.1
170°	593.7	587.9	584.4	582.1	577.4	571.6	569.3	567.0	563.5	562.3	564.7
172.5°	587.2	583.2	581.6	581.2	577.4	572.6	571.2	569.8	567.2	567.0	568.4
175°	579.8	577.4	577.4	578.6	576.3	574.0	572.8	572.8	570.5	571.6	572.8
177.5°	574.9	574.0	574.9	576.7	574.9	574.0	574.0	574.0	573.0	574.0	574.9
180°	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0



TEST NUMBER: P332386

CATALOG NUMBER: S123RDIP-S1165D1195U835-4F0-1E-UDD-A4

**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°	17.9	14.6	14.7	13.2	13.7	13.1	14.5	13.9	14.0	14.4	13.4
90°	4.6	7.0	10.5	12.8	15.1	18.6	22.1	25.6	29.0	27.9	29.0
92.5°	21.4	31.1	40.2	50.0	67.2	97.6	147.6	196.6	178.7	134.8	97.8
95°	43.0	55.8	75.5	105.7	151.0	249.8	422.9	613.5	689.0	558.8	418.3
97.5°	68.5	78.5	95.7	125.5	174.5	268.9	464.0	781.7	1067.7	1142.3	1042.6
100°	87.1	95.3	111.5	139.4	184.7	266.1	438.0	743.6	1100.3	1329.2	1369.8
102.5°	107.6	114.8	130.1	155.2	196.8	269.8	415.7	687.8	1039.9	1338.4	1478.6
105°	138.3	145.2	159.2	181.2	217.3	280.0	399.7	619.3	934.1	1267.6	1510.4
107.5°	169.4	176.1	189.8	210.5	244.0	299.1	398.5	575.6	840.7	1143.5	1418.8
110°	191.7	197.5	210.3	230.0	262.6	314.9	403.2	558.8	787.7	1065.4	1331.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	212.2	218.0	230.7	250.5	282.1	330.7	412.5	549.6	752.4	997.6	1245.0
115°	242.8	249.8	261.4	281.2	312.5	356.7	427.6	546.1	714.5	915.5	1130.5
117.5°	273.0	278.8	289.5	311.6	340.7	384.3	447.5	548.2	692.2	866.0	1047.5
120°	291.6	297.4	309.1	331.1	360.2	402.0	462.4	551.9	682.0	840.0	1003.8
122.5°	309.3	315.1	327.6	348.8	379.7	420.6	476.4	558.4	675.5	818.6	969.4
125°	333.5	340.4	353.2	375.3	406.6	447.3	498.4	568.1	666.9	791.2	923.7
127.5°	353.9	362.5	375.5	399.9	431.3	470.5	516.6	579.3	662.7	767.1	883.7
130°	366.0	376.4	390.4	414.8	446.1	484.5	528.6	586.7	659.9	754.0	858.6
132.5°	376.2	387.6	404.3	428.7	459.2	496.6	539.8	592.3	659.0	742.0	835.4
135°	392.7	405.5	422.9	447.3	478.7	514.7	554.2	600.7	657.6	726.2	804.0
137.5°	408.3	420.8	439.4	463.6	492.6	527.2	564.9	606.3	655.0	712.4	775.4
140°	419.4	431.0	449.6	472.9	501.9	535.6	570.5	610.0	654.1	704.1	758.7
142.5°	429.7	442.2	458.9	482.2	509.4	542.1	576.0	612.8	652.3	696.6	742.9
145°	446.1	456.6	474.0	493.8	520.5	550.7	582.1	614.6	649.5	686.7	723.8
147.5°	462.9	473.1	488.2	507.3	530.0	557.7	585.8	614.6	645.1	676.9	708.3
150°	474.0	483.3	498.4	514.7	535.6	562.3	586.7	614.6	641.3	670.4	697.1
152.5°	485.2	494.5	507.7	522.1	542.1	565.1	588.6	611.8	636.7	663.0	686.9
155°	503.1	510.1	521.7	534.4	550.7	570.5	589.1	608.8	628.6	651.8	671.5
157.5°	518.4	524.0	534.2	545.1	557.7	573.5	590.2	604.9	621.4	639.2	655.3
160°	528.6	533.3	542.6	550.7	562.3	576.3	590.2	603.0	615.8	630.9	646.0
162.5°	537.0	540.7	548.2	555.4	565.1	577.2	589.3	599.3	610.2	622.5	634.8
165°	548.4	550.7	556.5	561.2	569.3	578.6	586.7	593.7	601.8	611.1	620.4
167.5°	557.7	558.8	563.3	566.5	571.6	578.4	584.9	588.1	593.5	600.2	607.9
170°	562.3	563.5	567.0	569.3	571.6	577.4	582.1	584.4	587.9	593.7	599.5
172.5°	567.0	567.2	569.8	571.2	572.6	577.4	581.2	581.6	583.2	587.2	592.1
175°	571.6	570.5	572.8	572.8	574.0	576.3	578.6	577.4	577.4	579.8	582.1
177.5°	574.0	573.0	574.0	574.0	574.0	574.9	576.7	574.9	574.0	574.9	575.8
180°	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0



TEST NUMBER: P332386

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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°	13.6	13.8	13.7	13.4	13.0	14.5	13.0
90°	30.2	31.4	33.7	32.5	33.7	34.9	33.7
92.5°	77.6	68.5	62.5	60.4	56.9	58.1	56.0
95°	283.5	221.9	180.1	158.0	147.6	139.4	134.8
97.5°	835.1	685.3	546.3	460.6	408.3	376.9	366.9
100°	1275.7	1139.8	974.8	857.4	772.6	727.3	728.5
102.5°	1475.5	1396.3	1291.7	1200.4	1133.3	1095.4	1068.7
105°	1626.6	1648.7	1618.5	1565.0	1520.9	1483.7	1477.9
107.5°	1607.5	1709.3	1750.7	1751.6	1736.7	1724.2	1713.5
110°	1545.3	1691.7	1773.0	1805.5	1814.8	1812.5	1810.2



TEST NUMBER: P332386

CATALOG NUMBER: S123RDIP-S1165D1195U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1463.5	1627.5	1732.1	1791.6	1820.4	1829.2	1829.7
115°	1332.6	1503.4	1630.1	1717.2	1768.3	1791.6	1797.4
117.5°	1222.0	1375.4	1503.9	1594.8	1653.3	1686.8	1694.7
120°	1160.7	1300.1	1417.5	1509.2	1574.3	1602.2	1609.2
122.5°	1111.4	1240.6	1349.6	1431.2	1489.7	1520.4	1529.2
125°	1050.3	1161.8	1254.8	1329.2	1380.3	1409.3	1417.5
127.5°	996.6	1097.2	1181.8	1248.1	1291.7	1318.0	1325.4
130°	963.2	1057.3	1136.3	1197.9	1239.7	1264.1	1273.4
132.5°	931.6	1019.2	1094.5	1152.3	1194.1	1215.8	1222.3
135°	886.5	962.0	1028.2	1085.2	1120.0	1140.9	1149.1
137.5°	843.0	908.1	965.5	1013.4	1048.7	1066.3	1071.7
140°	817.9	873.7	923.7	967.8	1000.4	1018.9	1017.8
142.5°	793.8	842.1	885.6	923.2	952.0	968.7	967.6
145°	762.2	799.4	833.0	862.1	886.5	895.8	898.1
147.5°	738.7	768.7	792.6	814.7	831.2	840.0	840.9
150°	723.8	748.2	770.3	787.7	800.5	807.5	807.5
152.5°	709.9	731.5	749.9	763.6	775.4	779.6	779.6
155°	690.1	707.6	721.5	732.0	741.3	743.6	744.7
157.5°	670.9	684.3	695.2	704.3	711.3	713.1	712.9
160°	658.8	670.4	678.5	686.7	693.6	693.6	692.5
162.5°	645.8	656.4	663.6	669.0	675.0	675.0	673.9
165°	627.4	635.5	641.3	646.0	650.6	649.5	649.5
167.5°	613.2	617.9	622.1	624.1	627.4	626.2	626.2
170°	603.0	607.6	610.0	611.1	613.5	612.3	612.3
172.5°	594.6	598.4	599.7	600.0	602.3	600.2	599.3
175°	583.2	585.6	585.6	585.6	586.7	585.6	584.4
177.5°	576.7	577.7	577.7	576.7	577.7	575.8	575.8
180°	574.0	574.0	574.0	574.0	574.0	574.0	574.0

(END OF REPORT)