

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: P332374

Luminaire Tested: **S123RDIP-S1165D805U835-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332374
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-S1165D805U835-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 805 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7480.1 lumens
Efficiency: N/A
Efficacy: 123.2 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: Semi-Direct

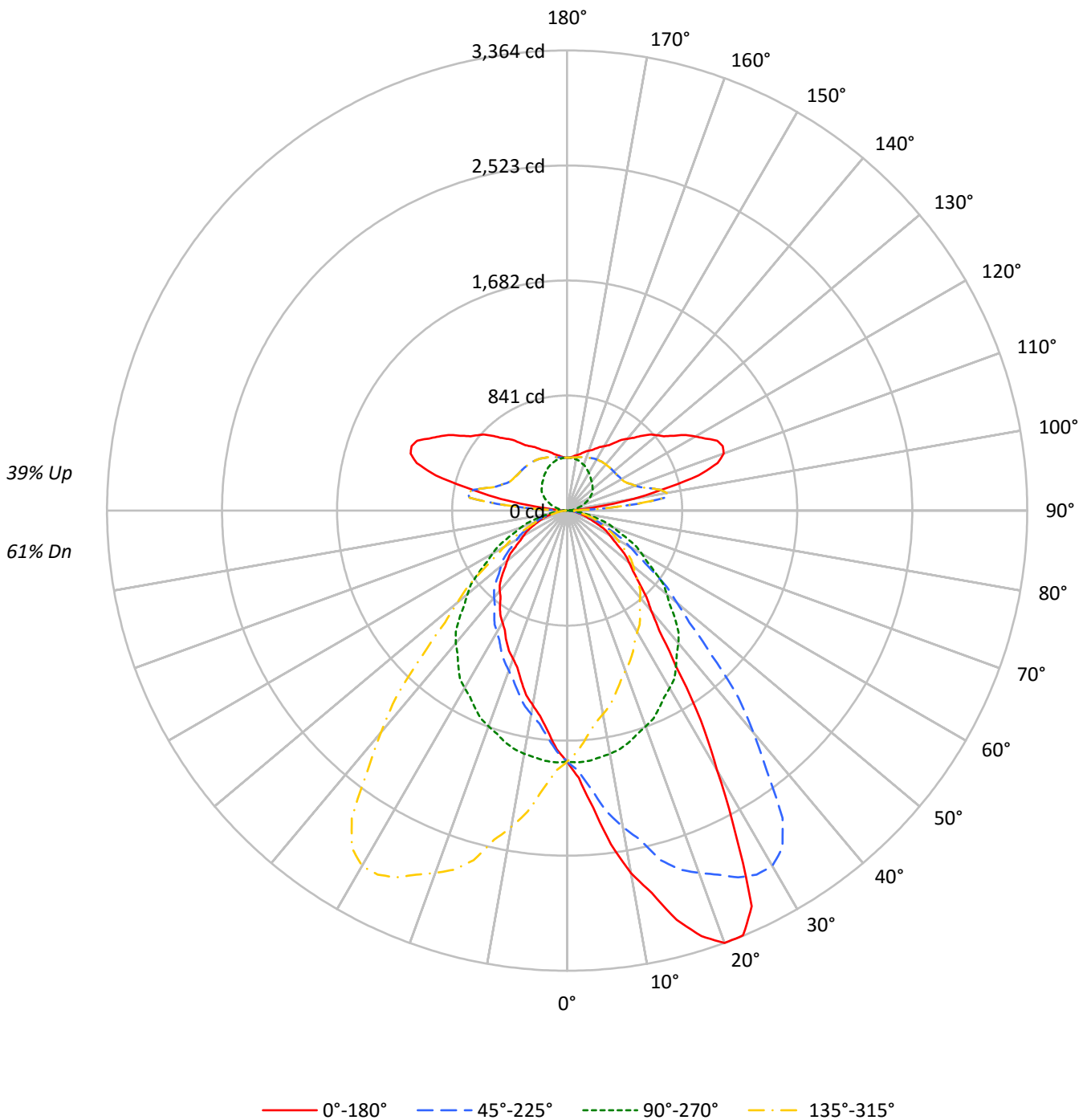
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	110	110	110	110	103	103	103	103	90	90	90	77	77	77	66	66	66	66	66	66	61	
1	101	97	93	90	94	91	88	85	80	77	75	69	68	66	60	59	57	57	57	57	53	
2	93	85	80	75	86	80	75	71	71	67	63	62	59	56	53	51	50	50	50	50	46	
3	85	76	69	63	79	71	65	60	63	58	54	55	52	48	48	45	43	43	43	43	39	
4	78	68	60	54	73	64	57	52	56	51	47	50	45	42	43	40	38	38	38	38	34	
5	72	61	53	47	67	57	50	45	51	45	41	45	40	37	39	36	33	33	33	33	30	
6	67	55	47	41	62	52	45	39	46	40	36	41	36	33	36	32	30	30	30	30	27	
7	62	50	42	36	58	47	40	35	42	36	32	37	33	29	33	29	27	27	27	27	24	
8	57	45	38	32	54	43	36	31	39	33	29	34	30	26	30	27	24	24	24	24	22	
9	54	41	34	29	50	39	33	28	35	30	26	32	27	24	28	24	22	22	22	22	20	
10	50	38	31	26	47	36	30	25	33	27	23	29	25	22	26	23	20	20	20	20	18	

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	2.4
10°-20°	564.1	7.5
20°-30°	886.2	11.8
30°-40°	924.6	12.4
40°-50°	791.2	10.6
50°-60°	603.1	8.1
60°-70°	386.5	5.2
70°-80°	186.0	2.5
80°-90°	52.2	0.7
90°-100°	214.9	2.9
100°-110°	608.6	8.1
110°-120°	598.7	8.0
120°-130°	477.5	6.4
130°-140°	376.5	5.0
140°-150°	281.0	3.8
150°-160°	195.9	2.6
160°-170°	115.1	1.5
170°-180°	37.4	0.5
0°-30°	1630.8	21.8
0°-40°	2555.4	34.2
0°-60°	3949.7	52.8
0°-90°	4574.4	61.2
90°-120°	1422.2	19.0
90°-150°	2557.3	34.2
90°-180°	2906.0	38.8
0°-180°	7480.1	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°	23	2	23	2	23	13
95°	91	27	91	27	91	163
105°	994	91	994	91	994	981
115°	1210	160	1210	160	1210	1175
125°	954	223	954	223	954	864
135°	773	261	773	261	773	600
145°	604	298	604	298	604	384
155°	501	338	501	338	501	234
165°	437	370	437	370	437	125
175°	393	385	393	385	393	38
180°	386	386	386	386	386	



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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°	10.8	12.2	10.8	11.3	11.5	11.8	11.6	11.5	12.6	12.1	12.2
90°	22.7	23.5	22.7	21.9	22.7	21.1	20.3	19.5	18.8	19.5	17.2
92.5°	37.7	39.1	38.3	40.7	42.1	46.1	52.2	65.8	90.7	120.2	132.3
95°	90.7	93.8	99.3	106.3	121.2	149.3	190.8	281.5	376.1	463.6	412.8
97.5°	246.9	253.6	274.7	309.9	367.6	461.1	562.0	701.6	768.7	718.5	526.0
100°	490.2	489.4	519.9	577.0	655.9	767.0	858.4	921.8	894.4	740.4	500.4
102.5°	719.1	737.1	762.6	807.8	869.2	939.6	992.9	994.9	900.7	699.7	462.8
105°	994.5	998.4	1023.4	1053.1	1089.1	1109.4	1094.5	1016.4	853.0	628.6	416.7
107.5°	1153.0	1160.2	1168.7	1178.7	1178.0	1150.2	1081.7	954.8	769.5	565.7	387.3
110°	1218.1	1219.6	1221.2	1214.9	1193.1	1138.3	1039.8	896.0	716.9	530.1	376.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1231.2	1230.9	1225.0	1205.6	1165.5	1095.2	984.8	837.8	671.3	506.3	369.8
115°	1209.5	1205.6	1189.9	1155.5	1096.9	1011.7	896.7	760.7	616.1	480.8	367.5
117.5°	1140.4	1135.0	1112.5	1073.1	1012.0	925.5	822.3	704.9	582.8	465.8	368.9
120°	1082.8	1078.1	1059.4	1015.6	953.8	874.9	781.0	675.5	565.3	458.9	371.4
122.5°	1029.0	1023.1	1002.4	963.0	908.2	834.8	747.9	652.4	550.9	454.6	375.7
125°	953.8	948.3	928.8	894.4	844.4	781.8	706.8	621.5	532.4	448.8	382.3
127.5°	891.9	886.9	869.2	839.8	795.3	738.4	670.6	594.7	516.2	446.0	389.8
130°	856.9	850.6	834.2	806.1	764.6	711.5	648.1	577.8	507.4	444.1	394.8
132.5°	822.5	818.1	803.6	775.4	736.5	685.8	626.9	562.1	499.3	443.4	398.6
135°	773.2	767.7	753.7	730.2	691.9	647.3	596.5	541.0	488.6	442.5	404.2
137.5°	721.2	717.6	705.7	681.9	649.7	611.1	567.3	521.8	479.4	440.8	408.0
140°	684.9	685.7	673.1	651.3	621.5	587.9	550.4	510.5	473.8	440.2	410.5
142.5°	651.1	651.9	640.6	621.2	595.9	566.7	534.1	499.9	468.8	438.9	412.3
145°	604.3	602.8	596.5	580.1	560.6	537.9	512.9	487.1	462.1	437.0	413.6
147.5°	565.9	565.3	559.3	548.2	533.4	517.3	497.1	476.6	455.5	434.1	413.6
150°	543.4	543.4	538.7	530.1	518.3	503.5	487.1	469.1	451.1	431.6	413.6
152.5°	524.6	524.6	521.8	513.8	504.6	492.2	477.7	462.2	446.1	428.4	411.7
155°	501.1	500.4	498.8	492.5	485.5	476.1	464.4	451.9	438.6	423.0	409.7
157.5°	479.7	479.9	478.6	473.9	467.8	460.5	451.4	440.9	430.2	418.1	407.0
160°	466.0	466.7	466.7	462.1	456.6	451.1	443.3	434.7	424.5	414.4	405.8
162.5°	453.5	454.2	454.2	450.2	446.6	441.7	434.5	427.2	418.9	410.6	403.3
165°	437.0	437.0	437.8	434.7	431.6	427.7	422.2	417.5	411.2	405.0	399.5
167.5°	421.4	421.4	422.2	420.0	418.6	415.8	412.6	409.0	403.9	399.4	395.8
170°	412.0	412.0	412.8	411.2	410.5	408.9	405.8	403.4	399.5	395.6	393.3
172.5°	403.3	403.9	405.3	403.7	403.6	402.6	400.1	398.4	395.1	392.5	391.4
175°	393.3	394.0	394.8	394.0	394.0	394.0	392.5	391.7	390.1	388.6	388.6
177.5°	387.5	387.5	388.7	388.1	388.7	388.7	388.1	387.5	386.8	386.2	386.8
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



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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°	13.0	11.9	12.7	12.4	14.0	14.1	17.6	20.4	21.4	19.2	19.6
90°	14.9	12.5	10.2	8.6	7.0	4.7	3.1	1.6	3.1	4.7	7.0
92.5°	99.3	65.7	45.2	33.6	27.1	21.0	14.4	9.7	14.4	21.0	27.1
95°	284.6	168.1	101.6	71.1	50.8	37.5	28.9	26.6	28.9	37.5	50.8
97.5°	312.3	180.9	117.4	84.4	64.4	52.9	46.1	45.3	46.1	52.9	64.4
100°	294.7	179.0	124.3	93.8	75.1	64.1	58.6	57.9	58.6	64.1	75.1
102.5°	279.7	181.5	132.4	104.5	87.6	77.2	72.4	71.0	72.4	77.2	87.6
105°	268.9	188.4	146.2	122.0	107.1	97.7	93.0	90.7	93.0	97.7	107.1
107.5°	268.2	201.2	164.2	141.7	127.7	118.5	114.0	111.6	114.0	118.5	127.7
110°	271.3	211.9	176.7	154.8	141.5	132.9	129.0	126.7	129.0	132.9	141.5



TEST NUMBER: P332374

CATALOG NUMBER: S123RDIP-S1165D805U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	277.5	222.5	189.8	168.6	155.3	146.7	142.8	140.4	142.8	146.7	155.3
115°	287.7	240.0	210.3	189.2	175.9	168.1	163.4	160.3	163.4	168.1	175.9
117.5°	301.2	258.6	229.2	209.7	194.8	187.6	183.7	180.1	183.7	187.6	194.8
120°	311.2	270.5	242.4	222.8	208.0	200.1	196.2	193.9	196.2	200.1	208.0
122.5°	320.5	283.0	255.5	234.7	220.5	212.0	208.1	205.8	208.1	212.0	220.5
125°	335.4	301.0	273.6	252.5	237.7	229.1	224.4	222.8	224.4	229.1	237.7
127.5°	347.6	316.6	290.2	269.1	252.7	243.9	238.1	235.8	238.1	243.9	252.7
130°	355.7	326.0	300.2	279.1	262.7	253.3	246.3	243.9	246.3	253.3	262.7
132.5°	363.2	334.1	309.0	288.5	272.1	260.8	253.2	250.2	253.2	260.8	272.1
135°	372.9	346.3	322.1	301.0	284.6	272.9	264.3	261.1	264.3	272.9	284.6
137.5°	380.1	354.8	331.5	311.9	295.7	283.2	274.7	271.4	274.7	283.2	295.7
140°	383.9	360.4	337.7	318.2	302.6	290.1	282.2	278.3	282.2	290.1	302.6
142.5°	387.6	364.8	342.7	324.5	308.8	297.6	289.1	285.8	289.1	297.6	308.8
145°	391.7	370.6	350.3	332.3	319.0	307.3	300.2	297.9	300.2	307.3	319.0
147.5°	394.2	375.3	356.7	341.3	328.5	318.4	311.5	310.1	311.5	318.4	328.5
150°	394.8	378.4	360.4	346.3	335.4	325.2	319.0	318.2	319.0	325.2	335.4
152.5°	396.1	380.3	364.8	351.3	341.7	332.7	326.5	326.3	326.5	332.7	341.7
155°	396.4	383.9	370.6	359.6	351.0	343.2	338.5	338.5	338.5	343.2	351.0
157.5°	397.2	385.9	375.3	366.8	359.5	352.6	348.8	348.2	348.8	352.6	359.5
160°	397.2	387.8	378.4	370.6	365.1	358.9	355.7	355.7	355.7	358.9	365.1
162.5°	396.5	388.4	380.3	373.7	368.9	363.9	361.4	361.4	361.4	363.9	368.9
165°	394.8	389.3	383.1	377.6	374.5	370.6	369.0	369.8	369.0	370.6	374.5
167.5°	393.6	389.2	384.7	381.2	379.0	376.1	375.3	376.2	375.3	376.1	379.0
170°	391.7	388.6	384.7	383.1	381.5	379.2	378.4	380.0	378.4	379.2	381.5
172.5°	391.1	388.6	385.3	384.3	383.4	381.7	381.5	382.5	381.5	381.7	383.4
175°	389.3	387.8	386.2	385.4	385.4	383.9	384.7	385.4	384.7	383.9	385.4
177.5°	388.1	386.8	386.2	386.2	386.2	385.6	386.2	386.8	386.2	385.6	386.2
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



TEST NUMBER: P332374

CATALOG NUMBER: S123RDIP-S1165D805U835-4F0-1E-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°	19.3	21.5	22.6	23.7	24.8	24.7	25.1	25.3	26.1	26.2	26.5
90°	8.6	10.2	12.5	14.9	17.2	19.5	18.8	19.5	20.3	21.1	22.7
92.5°	33.6	45.2	65.7	99.3	132.3	120.2	90.7	65.8	52.2	46.1	42.1
95°	71.1	101.6	168.1	284.6	412.8	463.6	376.1	281.5	190.8	149.3	121.2
97.5°	84.4	117.4	180.9	312.3	526.0	718.5	768.7	701.6	562.0	461.1	367.6
100°	93.8	124.3	179.0	294.7	500.4	740.4	894.4	921.8	858.4	767.0	655.9
102.5°	104.5	132.4	181.5	279.7	462.8	699.7	900.7	994.9	992.9	939.6	869.2
105°	122.0	146.2	188.4	268.9	416.7	628.6	853.0	1016.4	1094.5	1109.4	1089.1
107.5°	141.7	164.2	201.2	268.2	387.3	565.7	769.5	954.8	1081.7	1150.2	1178.0
110°	154.8	176.7	211.9	271.3	376.1	530.1	716.9	896.0	1039.8	1138.3	1193.1



TEST NUMBER: P332374

CATALOG NUMBER: S123RDIP-S1165D805U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	168.6	189.8	222.5	277.5	369.8	506.3	671.3	837.8	984.8	1095.2	1165.5
115°	189.2	210.3	240.0	287.7	367.5	480.8	616.1	760.7	896.7	1011.7	1096.9
117.5°	209.7	229.2	258.6	301.2	368.9	465.8	582.8	704.9	822.3	925.5	1012.0
120°	222.8	242.4	270.5	311.2	371.4	458.9	565.3	675.5	781.0	874.9	953.8
122.5°	234.7	255.5	283.0	320.5	375.7	454.6	550.9	652.4	747.9	834.8	908.2
125°	252.5	273.6	301.0	335.4	382.3	448.8	532.4	621.5	706.8	781.8	844.4
127.5°	269.1	290.2	316.6	347.6	389.8	446.0	516.2	594.7	670.6	738.4	795.3
130°	279.1	300.2	326.0	355.7	394.8	444.1	507.4	577.8	648.1	711.5	764.6
132.5°	288.5	309.0	334.1	363.2	398.6	443.4	499.3	562.1	626.9	685.8	736.5
135°	301.0	322.1	346.3	372.9	404.2	442.5	488.6	541.0	596.5	647.3	691.9
137.5°	311.9	331.5	354.8	380.1	408.0	440.8	479.4	521.8	567.3	611.1	649.7
140°	318.2	337.7	360.4	383.9	410.5	440.2	473.8	510.5	550.4	587.9	621.5
142.5°	324.5	342.7	364.8	387.6	412.3	438.9	468.8	499.9	534.1	566.7	595.9
145°	332.3	350.3	370.6	391.7	413.6	437.0	462.1	487.1	512.9	537.9	560.6
147.5°	341.3	356.7	375.3	394.2	413.6	434.1	455.5	476.6	497.1	517.3	533.4
150°	346.3	360.4	378.4	394.8	413.6	431.6	451.1	469.1	487.1	503.5	518.3
152.5°	351.3	364.8	380.3	396.1	411.7	428.4	446.1	462.2	477.7	492.2	504.6
155°	359.6	370.6	383.9	396.4	409.7	423.0	438.6	451.9	464.4	476.1	485.5
157.5°	366.8	375.3	385.9	397.2	407.0	418.1	430.2	440.9	451.4	460.5	467.8
160°	370.6	378.4	387.8	397.2	405.8	414.4	424.5	434.7	443.3	451.1	456.6
162.5°	373.7	380.3	388.4	396.5	403.3	410.6	418.9	427.2	434.5	441.7	446.6
165°	377.6	383.1	389.3	394.8	399.5	405.0	411.2	417.5	422.2	427.7	431.6
167.5°	381.2	384.7	389.2	393.6	395.8	399.4	403.9	409.0	412.6	415.8	418.6
170°	383.1	384.7	388.6	391.7	393.3	395.6	399.5	403.4	405.8	408.9	410.5
172.5°	384.3	385.3	388.6	391.1	391.4	392.5	395.1	398.4	400.1	402.6	403.6
175°	385.4	386.2	387.8	389.3	388.6	388.6	390.1	391.7	392.5	394.0	394.0
177.5°	386.2	386.2	386.8	388.1	386.8	386.2	386.8	387.5	388.1	388.7	388.7
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



TEST NUMBER: P332374

CATALOG NUMBER: S123RDIP-S1165D805U835-4F0-1E-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°	27.6	26.5	26.7	27.2	26.7	26.5	27.6	26.5	26.2	26.1	25.3
90°	21.9	22.7	23.5	22.7	23.5	22.7	21.9	22.7	21.1	20.3	19.5
92.5°	40.7	38.3	39.1	37.7	39.1	38.3	40.7	42.1	46.1	52.2	65.8
95°	106.3	99.3	93.8	90.7	93.8	99.3	106.3	121.2	149.3	190.8	281.5
97.5°	309.9	274.7	253.6	246.9	253.6	274.7	309.9	367.6	461.1	562.0	701.6
100°	577.0	519.9	489.4	490.2	489.4	519.9	577.0	655.9	767.0	858.4	921.8
102.5°	807.8	762.6	737.1	719.1	737.1	762.6	807.8	869.2	939.6	992.9	994.9
105°	1053.1	1023.4	998.4	994.5	998.4	1023.4	1053.1	1089.1	1109.4	1094.5	1016.4
107.5°	1178.7	1168.7	1160.2	1153.0	1160.2	1168.7	1178.7	1178.0	1150.2	1081.7	954.8
110°	1214.9	1221.2	1219.6	1218.1	1219.6	1221.2	1214.9	1193.1	1138.3	1039.8	896.0



TEST NUMBER: P332374

CATALOG NUMBER: S123RDIP-S1165D805U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1205.6	1225.0	1230.9	1231.2	1230.9	1225.0	1205.6	1165.5	1095.2	984.8	837.8
115°	1155.5	1189.9	1205.6	1209.5	1205.6	1189.9	1155.5	1096.9	1011.7	896.7	760.7
117.5°	1073.1	1112.5	1135.0	1140.4	1135.0	1112.5	1073.1	1012.0	925.5	822.3	704.9
120°	1015.6	1059.4	1078.1	1082.8	1078.1	1059.4	1015.6	953.8	874.9	781.0	675.5
122.5°	963.0	1002.4	1023.1	1029.0	1023.1	1002.4	963.0	908.2	834.8	747.9	652.4
125°	894.4	928.8	948.3	953.8	948.3	928.8	894.4	844.4	781.8	706.8	621.5
127.5°	839.8	869.2	886.9	891.9	886.9	869.2	839.8	795.3	738.4	670.6	594.7
130°	806.1	834.2	850.6	856.9	850.6	834.2	806.1	764.6	711.5	648.1	577.8
132.5°	775.4	803.6	818.1	822.5	818.1	803.6	775.4	736.5	685.8	626.9	562.1
135°	730.2	753.7	767.7	773.2	767.7	753.7	730.2	691.9	647.3	596.5	541.0
137.5°	681.9	705.7	717.6	721.2	717.6	705.7	681.9	649.7	611.1	567.3	521.8
140°	651.3	673.1	685.7	684.9	685.7	673.1	651.3	621.5	587.9	550.4	510.5
142.5°	621.2	640.6	651.9	651.1	651.9	640.6	621.2	595.9	566.7	534.1	499.9
145°	580.1	596.5	602.8	604.3	602.8	596.5	580.1	560.6	537.9	512.9	487.1
147.5°	548.2	559.3	565.3	565.9	565.3	559.3	548.2	533.4	517.3	497.1	476.6
150°	530.1	538.7	543.4	543.4	543.4	538.7	530.1	518.3	503.5	487.1	469.1
152.5°	513.8	521.8	524.6	524.6	524.6	521.8	513.8	504.6	492.2	477.7	462.2
155°	492.5	498.8	500.4	501.1	500.4	498.8	492.5	485.5	476.1	464.4	451.9
157.5°	473.9	478.6	479.9	479.7	479.9	478.6	473.9	467.8	460.5	451.4	440.9
160°	462.1	466.7	466.7	466.0	466.7	466.7	462.1	456.6	451.1	443.3	434.7
162.5°	450.2	454.2	454.2	453.5	454.2	454.2	450.2	446.6	441.7	434.5	427.2
165°	434.7	437.8	437.0	437.0	437.0	437.8	434.7	431.6	427.7	422.2	417.5
167.5°	420.0	422.2	421.4	421.4	421.4	422.2	420.0	418.6	415.8	412.6	409.0
170°	411.2	412.8	412.0	412.0	412.0	412.8	411.2	410.5	408.9	405.8	403.4
172.5°	403.7	405.3	403.9	403.3	403.9	405.3	403.7	403.6	402.6	400.1	398.4
175°	394.0	394.8	394.0	393.3	394.0	394.8	394.0	394.0	394.0	392.5	391.7
177.5°	388.1	388.7	387.5	387.5	387.5	388.7	388.1	388.7	388.7	388.1	387.5
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



TEST NUMBER: P332374

CATALOG NUMBER: S123RDIP-S1165D805U835-4F0-1E-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°	25.1	24.7	24.8	23.7	22.6	21.5	19.3	19.6	19.2	21.4	20.4
90°	18.8	19.5	17.2	14.9	12.5	10.2	8.6	7.0	4.7	3.1	1.6
92.5°	90.7	120.2	132.3	99.3	65.7	45.2	33.6	27.1	21.0	14.4	9.7
95°	376.1	463.6	412.8	284.6	168.1	101.6	71.1	50.8	37.5	28.9	26.6
97.5°	768.7	718.5	526.0	312.3	180.9	117.4	84.4	64.4	52.9	46.1	45.3
100°	894.4	740.4	500.4	294.7	179.0	124.3	93.8	75.1	64.1	58.6	57.9
102.5°	900.7	699.7	462.8	279.7	181.5	132.4	104.5	87.6	77.2	72.4	71.0
105°	853.0	628.6	416.7	268.9	188.4	146.2	122.0	107.1	97.7	93.0	90.7
107.5°	769.5	565.7	387.3	268.2	201.2	164.2	141.7	127.7	118.5	114.0	111.6
110°	716.9	530.1	376.1	271.3	211.9	176.7	154.8	141.5	132.9	129.0	126.7



TEST NUMBER: P332374

CATALOG NUMBER: S123RDIP-S1165D805U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	671.3	506.3	369.8	277.5	222.5	189.8	168.6	155.3	146.7	142.8	140.4
115°	616.1	480.8	367.5	287.7	240.0	210.3	189.2	175.9	168.1	163.4	160.3
117.5°	582.8	465.8	368.9	301.2	258.6	229.2	209.7	194.8	187.6	183.7	180.1
120°	565.3	458.9	371.4	311.2	270.5	242.4	222.8	208.0	200.1	196.2	193.9
122.5°	550.9	454.6	375.7	320.5	283.0	255.5	234.7	220.5	212.0	208.1	205.8
125°	532.4	448.8	382.3	335.4	301.0	273.6	252.5	237.7	229.1	224.4	222.8
127.5°	516.2	446.0	389.8	347.6	316.6	290.2	269.1	252.7	243.9	238.1	235.8
130°	507.4	444.1	394.8	355.7	326.0	300.2	279.1	262.7	253.3	246.3	243.9
132.5°	499.3	443.4	398.6	363.2	334.1	309.0	288.5	272.1	260.8	253.2	250.2
135°	488.6	442.5	404.2	372.9	346.3	322.1	301.0	284.6	272.9	264.3	261.1
137.5°	479.4	440.8	408.0	380.1	354.8	331.5	311.9	295.7	283.2	274.7	271.4
140°	473.8	440.2	410.5	383.9	360.4	337.7	318.2	302.6	290.1	282.2	278.3
142.5°	468.8	438.9	412.3	387.6	364.8	342.7	324.5	308.8	297.6	289.1	285.8
145°	462.1	437.0	413.6	391.7	370.6	350.3	332.3	319.0	307.3	300.2	297.9
147.5°	455.5	434.1	413.6	394.2	375.3	356.7	341.3	328.5	318.4	311.5	310.1
150°	451.1	431.6	413.6	394.8	378.4	360.4	346.3	335.4	325.2	319.0	318.2
152.5°	446.1	428.4	411.7	396.1	380.3	364.8	351.3	341.7	332.7	326.5	326.3
155°	438.6	423.0	409.7	396.4	383.9	370.6	359.6	351.0	343.2	338.5	338.5
157.5°	430.2	418.1	407.0	397.2	385.9	375.3	366.8	359.5	352.6	348.8	348.2
160°	424.5	414.4	405.8	397.2	387.8	378.4	370.6	365.1	358.9	355.7	355.7
162.5°	418.9	410.6	403.3	396.5	388.4	380.3	373.7	368.9	363.9	361.4	361.4
165°	411.2	405.0	399.5	394.8	389.3	383.1	377.6	374.5	370.6	369.0	369.8
167.5°	403.9	399.4	395.8	393.6	389.2	384.7	381.2	379.0	376.1	375.3	376.2
170°	399.5	395.6	393.3	391.7	388.6	384.7	383.1	381.5	379.2	378.4	380.0
172.5°	395.1	392.5	391.4	391.1	388.6	385.3	384.3	383.4	381.7	381.5	382.5
175°	390.1	388.6	388.6	389.3	387.8	386.2	385.4	385.4	383.9	384.7	385.4
177.5°	386.8	386.2	386.8	388.1	386.8	386.2	386.2	386.2	385.6	386.2	386.8
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



TEST NUMBER: P332374

CATALOG NUMBER: S123RDIP-S1165D805U835-4F0-1E-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°	17.6	14.1	14.0	12.4	12.7	11.9	13.0	12.2	12.1	12.6	11.5
90°	3.1	4.7	7.0	8.6	10.2	12.5	14.9	17.2	19.5	18.8	19.5
92.5°	14.4	21.0	27.1	33.6	45.2	65.7	99.3	132.3	120.2	90.7	65.8
95°	28.9	37.5	50.8	71.1	101.6	168.1	284.6	412.8	463.6	376.1	281.5
97.5°	46.1	52.9	64.4	84.4	117.4	180.9	312.3	526.0	718.5	768.7	701.6
100°	58.6	64.1	75.1	93.8	124.3	179.0	294.7	500.4	740.4	894.4	921.8
102.5°	72.4	77.2	87.6	104.5	132.4	181.5	279.7	462.8	699.7	900.7	994.9
105°	93.0	97.7	107.1	122.0	146.2	188.4	268.9	416.7	628.6	853.0	1016.4
107.5°	114.0	118.5	127.7	141.7	164.2	201.2	268.2	387.3	565.7	769.5	954.8
110°	129.0	132.9	141.5	154.8	176.7	211.9	271.3	376.1	530.1	716.9	896.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	142.8	146.7	155.3	168.6	189.8	222.5	277.5	369.8	506.3	671.3	837.8
115°	163.4	168.1	175.9	189.2	210.3	240.0	287.7	367.5	480.8	616.1	760.7
117.5°	183.7	187.6	194.8	209.7	229.2	258.6	301.2	368.9	465.8	582.8	704.9
120°	196.2	200.1	208.0	222.8	242.4	270.5	311.2	371.4	458.9	565.3	675.5
122.5°	208.1	212.0	220.5	234.7	255.5	283.0	320.5	375.7	454.6	550.9	652.4
125°	224.4	229.1	237.7	252.5	273.6	301.0	335.4	382.3	448.8	532.4	621.5
127.5°	238.1	243.9	252.7	269.1	290.2	316.6	347.6	389.8	446.0	516.2	594.7
130°	246.3	253.3	262.7	279.1	300.2	326.0	355.7	394.8	444.1	507.4	577.8
132.5°	253.2	260.8	272.1	288.5	309.0	334.1	363.2	398.6	443.4	499.3	562.1
135°	264.3	272.9	284.6	301.0	322.1	346.3	372.9	404.2	442.5	488.6	541.0
137.5°	274.7	283.2	295.7	311.9	331.5	354.8	380.1	408.0	440.8	479.4	521.8
140°	282.2	290.1	302.6	318.2	337.7	360.4	383.9	410.5	440.2	473.8	510.5
142.5°	289.1	297.6	308.8	324.5	342.7	364.8	387.6	412.3	438.9	468.8	499.9
145°	300.2	307.3	319.0	332.3	350.3	370.6	391.7	413.6	437.0	462.1	487.1
147.5°	311.5	318.4	328.5	341.3	356.7	375.3	394.2	413.6	434.1	455.5	476.6
150°	319.0	325.2	335.4	346.3	360.4	378.4	394.8	413.6	431.6	451.1	469.1
152.5°	326.5	332.7	341.7	351.3	364.8	380.3	396.1	411.7	428.4	446.1	462.2
155°	338.5	343.2	351.0	359.6	370.6	383.9	396.4	409.7	423.0	438.6	451.9
157.5°	348.8	352.6	359.5	366.8	375.3	385.9	397.2	407.0	418.1	430.2	440.9
160°	355.7	358.9	365.1	370.6	378.4	387.8	397.2	405.8	414.4	424.5	434.7
162.5°	361.4	363.9	368.9	373.7	380.3	388.4	396.5	403.3	410.6	418.9	427.2
165°	369.0	370.6	374.5	377.6	383.1	389.3	394.8	399.5	405.0	411.2	417.5
167.5°	375.3	376.1	379.0	381.2	384.7	389.2	393.6	395.8	399.4	403.9	409.0
170°	378.4	379.2	381.5	383.1	384.7	388.6	391.7	393.3	395.6	399.5	403.4
172.5°	381.5	381.7	383.4	384.3	385.3	388.6	391.1	391.4	392.5	395.1	398.4
175°	384.7	383.9	385.4	385.4	386.2	387.8	389.3	388.6	388.6	390.1	391.7
177.5°	386.2	385.6	386.2	386.2	386.2	386.8	388.1	386.8	386.2	386.8	387.5
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



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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°	11.6	11.8	11.5	11.3	10.8	12.2	10.8
90°	20.3	21.1	22.7	21.9	22.7	23.5	22.7
92.5°	52.2	46.1	42.1	40.7	38.3	39.1	37.7
95°	190.8	149.3	121.2	106.3	99.3	93.8	90.7
97.5°	562.0	461.1	367.6	309.9	274.7	253.6	246.9
100°	858.4	767.0	655.9	577.0	519.9	489.4	490.2
102.5°	992.9	939.6	869.2	807.8	762.6	737.1	719.1
105°	1094.5	1109.4	1089.1	1053.1	1023.4	998.4	994.5
107.5°	1081.7	1150.2	1178.0	1178.7	1168.7	1160.2	1153.0
110°	1039.8	1138.3	1193.1	1214.9	1221.2	1219.6	1218.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	984.8	1095.2	1165.5	1205.6	1225.0	1230.9	1231.2
115°	896.7	1011.7	1096.9	1155.5	1189.9	1205.6	1209.5
117.5°	822.3	925.5	1012.0	1073.1	1112.5	1135.0	1140.4
120°	781.0	874.9	953.8	1015.6	1059.4	1078.1	1082.8
122.5°	747.9	834.8	908.2	963.0	1002.4	1023.1	1029.0
125°	706.8	781.8	844.4	894.4	928.8	948.3	953.8
127.5°	670.6	738.4	795.3	839.8	869.2	886.9	891.9
130°	648.1	711.5	764.6	806.1	834.2	850.6	856.9
132.5°	626.9	685.8	736.5	775.4	803.6	818.1	822.5
135°	596.5	647.3	691.9	730.2	753.7	767.7	773.2
137.5°	567.3	611.1	649.7	681.9	705.7	717.6	721.2
140°	550.4	587.9	621.5	651.3	673.1	685.7	684.9
142.5°	534.1	566.7	595.9	621.2	640.6	651.9	651.1
145°	512.9	537.9	560.6	580.1	596.5	602.8	604.3
147.5°	497.1	517.3	533.4	548.2	559.3	565.3	565.9
150°	487.1	503.5	518.3	530.1	538.7	543.4	543.4
152.5°	477.7	492.2	504.6	513.8	521.8	524.6	524.6
155°	464.4	476.1	485.5	492.5	498.8	500.4	501.1
157.5°	451.4	460.5	467.8	473.9	478.6	479.9	479.7
160°	443.3	451.1	456.6	462.1	466.7	466.7	466.0
162.5°	434.5	441.7	446.6	450.2	454.2	454.2	453.5
165°	422.2	427.7	431.6	434.7	437.8	437.0	437.0
167.5°	412.6	415.8	418.6	420.0	422.2	421.4	421.4
170°	405.8	408.9	410.5	411.2	412.8	412.0	412.0
172.5°	400.1	402.6	403.6	403.7	405.3	403.9	403.3
175°	392.5	394.0	394.0	394.0	394.8	394.0	393.3
177.5°	388.1	388.7	388.7	388.1	388.7	387.5	387.5
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2

(END OF REPORT)