

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: P332380

Luminaire Tested: **S123RDIP-S1165D1025U835-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332380
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-S1165D1025U835-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8285.1 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

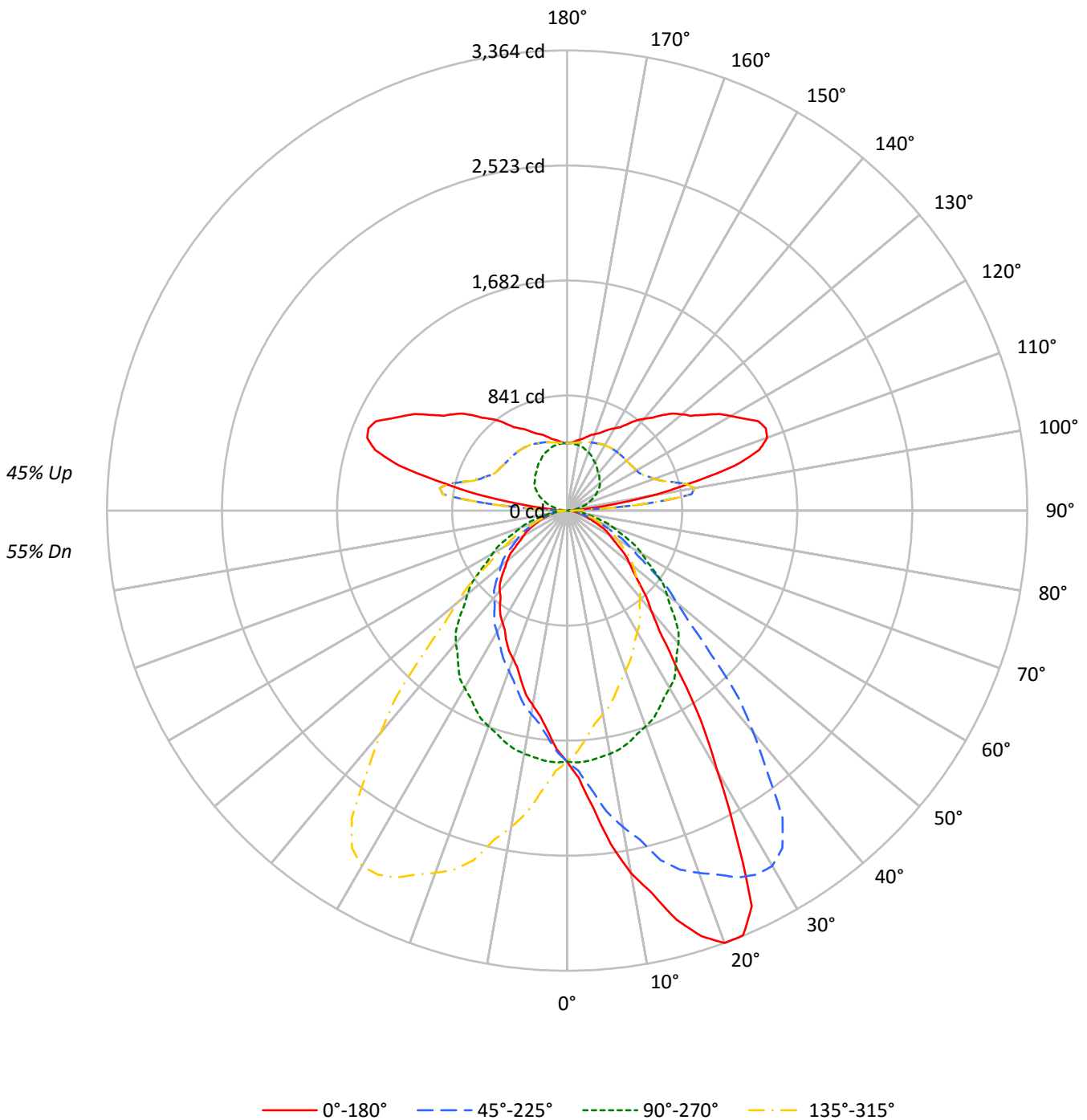
Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55									55																			
1	100	95	92	88	92	89	86	83	77	74	72	65	64	62	55	54	53	48									48																			
2	91	84	78	73	85	78	73	69	68	64	61	58	55	53	49	47	45	41									41																			
3	84	75	67	62	78	70	63	58	60	56	52	52	48	46	44	42	39	36									36																			
4	77	66	59	53	71	62	55	50	54	49	45	47	43	40	40	37	34	31									31																			
5	71	59	52	46	66	56	49	44	49	43	39	42	38	35	36	33	30	27									27																			
6	65	54	46	40	61	50	43	38	44	39	34	38	34	31	33	30	27	24									24																			
7	61	49	41	35	56	46	39	34	40	35	31	35	31	27	30	27	24	22									22																			
8	56	44	37	31	52	42	35	30	37	31	27	32	28	25	28	24	22	20									20																			
9	53	41	33	28	49	38	32	27	34	28	25	30	25	22	26	22	20	18									18																			
10	49	37	30	25	46	35	29	24	31	26	22	28	23	20	24	21	18	16									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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	2.2
10°-20°	564.1	6.8
20°-30°	886.2	10.7
30°-40°	924.6	11.2
40°-50°	791.2	9.6
50°-60°	603.1	7.3
60°-70°	386.5	4.7
70°-80°	186.0	2.2
80°-90°	53.0	0.6
90°-100°	274.4	3.3
100°-110°	777.0	9.4
110°-120°	764.4	9.2
120°-130°	609.7	7.4
130°-140°	480.7	5.8
140°-150°	358.8	4.3
150°-160°	250.1	3.0
160°-170°	146.9	1.8
170°-180°	47.8	0.6
0°-30°	1630.8	19.7
0°-40°	2555.4	30.8
0°-60°	3949.7	47.7
0°-90°	4575.2	55.2
90°-120°	1815.8	21.9
90°-150°	3265.1	39.4
90°-180°	3710.0	44.8
0°-180°	8285.1	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°	29	2	29	2	29	16
95°	116	34	116	34	116	209
105°	1270	116	1270	116	1270	1253
115°	1544	205	1544	205	1544	1500
125°	1218	284	1218	284	1218	1104
135°	987	333	987	333	987	766
145°	772	380	772	380	772	491
155°	640	432	640	432	640	298
165°	558	472	558	472	558	159
175°	502	492	502	492	502	49
180°	493	493	493	493	493	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0
2.5°	1955.5	1958.0	1949.8	1948.6	1939.1	1936.6	1936.6	1923.4	1915.2	1904.6	1898.3
5°	2180.3	2192.9	2186.6	2172.4	2148.8	2143.3	2128.4	2104.8	2078.1	2045.1	2029.4
7.5°	2461.0	2478.2	2471.6	2449.7	2425.0	2405.1	2362.9	2323.8	2268.9	2220.8	2179.6
10°	2691.2	2673.1	2658.9	2637.7	2614.9	2578.0	2534.0	2473.4	2403.5	2348.5	2287.2
12.5°	2863.4	2860.5	2842.5	2820.7	2788.5	2753.4	2699.3	2625.6	2544.3	2464.8	2394.7
15°	3098.3	3103.0	3091.2	3068.4	3022.8	2960.7	2879.0	2848.4	2732.0	2645.6	2559.1
17.5°	3260.8	3259.9	3258.3	3226.7	3180.2	3136.0	3060.2	2979.6	2874.3	2752.5	2636.0
20°	3363.9	3356.1	3357.7	3322.3	3287.7	3236.6	3162.7	3045.6	2959.2	2818.5	2698.2
22.5°	3361.4	3359.9	3365.8	3353.7	3328.6	3289.4	3231.3	3132.4	3022.1	2880.1	2744.8
25°	3192.6	3186.3	3223.3	3233.5	3273.6	3280.6	3263.3	3209.1	3104.6	2958.4	2791.0
27.5°	2672.0	2668.5	2737.1	2822.9	2931.7	3016.2	3098.0	3137.4	3104.6	2999.9	2832.2
30°	2192.9	2266.7	2301.3	2425.5	2563.8	2728.9	2873.5	3011.0	3044.8	2999.3	2861.7
32.5°	1820.6	1885.1	1914.0	2020.6	2149.5	2342.8	2559.7	2754.5	2892.1	2926.9	2844.1
35°	1384.9	1385.7	1451.7	1498.8	1618.3	1817.2	2027.8	2288.7	2548.1	2744.6	2765.0
37.5°	1105.1	1109.0	1148.9	1195.9	1285.5	1390.7	1576.2	1793.1	2092.7	2394.4	2571.2
40°	954.2	961.2	991.1	1037.5	1101.9	1181.3	1325.9	1530.3	1780.2	2115.8	2390.1
42.5°	857.3	868.8	884.2	919.9	959.8	1034.2	1151.1	1309.0	1536.3	1853.6	2170.1
45°	738.8	745.1	756.9	773.4	809.5	861.4	940.0	1046.1	1234.8	1490.2	1806.9
47.5°	651.7	648.4	660.8	674.2	698.3	733.6	786.3	872.9	1007.5	1212.4	1481.1
50°	592.6	591.8	600.5	610.7	633.5	659.4	702.7	767.9	874.8	1044.6	1290.6
52.5°	537.3	540.3	546.4	559.1	575.6	596.6	635.4	682.4	774.2	920.7	1125.8
55°	463.7	466.1	474.7	481.8	493.6	514.8	539.2	578.5	641.4	743.5	912.5
57.5°	401.5	400.4	408.7	410.4	423.8	441.1	459.9	490.4	536.0	612.0	725.8
60°	360.0	357.6	364.7	370.2	377.3	391.4	407.1	437.0	473.2	529.0	626.4
62.5°	322.2	321.1	326.3	331.8	337.7	350.5	363.7	386.7	415.3	462.3	539.6
65°	267.2	269.6	271.9	274.3	277.4	285.3	297.9	313.6	333.3	366.3	422.1
67.5°	210.0	212.4	213.2	218.0	224.8	229.7	237.4	251.4	265.0	292.9	324.6
70°	169.8	169.0	169.8	172.1	180.8	189.4	199.6	209.9	218.5	238.1	264.9
72.5°	145.9	144.5	146.5	147.0	151.2	153.6	160.0	169.6	180.8	194.1	213.3
75°	113.2	113.2	113.2	113.2	116.3	117.9	120.3	122.6	126.5	132.8	147.0
77.5°	83.6	83.8	84.9	85.7	86.3	87.2	88.7	91.0	92.4	95.7	101.9
80°	66.0	66.8	66.0	66.8	66.8	68.4	69.2	71.5	72.3	76.2	78.6
82.5°	49.7	49.2	49.7	50.5	50.5	52.0	52.2	53.9	54.1	56.1	58.5
85°	26.7	25.2	26.7	25.9	27.5	25.9	26.7	28.3	28.3	29.1	32.2
87.5°	12.1	13.5	12.1	12.5	12.7	12.9	12.7	12.5	13.6	13.2	13.2
90°	28.9	29.9	28.9	27.9	28.9	27.0	26.0	25.0	24.0	25.0	22.0
92.5°	48.1	49.9	48.9	51.9	53.7	58.9	66.7	84.0	115.8	153.5	168.9
95°	115.8	119.8	126.8	135.8	154.7	190.7	243.6	359.3	480.1	591.9	527.0
97.5°	315.2	323.8	350.8	395.7	469.3	588.7	717.5	895.8	981.4	917.3	671.6
100°	625.9	624.9	663.8	736.7	837.5	979.2	1096.0	1176.9	1141.9	945.3	638.8
102.5°	918.1	941.1	973.6	1031.3	1109.8	1199.6	1267.7	1270.3	1149.9	893.4	590.9
105°	1269.7	1274.7	1306.6	1344.5	1390.5	1416.4	1397.5	1297.6	1089.0	802.5	532.0
107.5°	1472.1	1481.3	1492.1	1504.9	1504.1	1468.5	1381.1	1219.0	982.4	722.3	494.5
110°	1555.2	1557.2	1559.2	1551.2	1523.2	1453.3	1327.6	1143.9	915.3	676.8	480.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1571.9	1571.5	1563.9	1539.2	1488.1	1398.2	1257.3	1069.6	857.0	646.4	472.1
115°	1544.2	1539.2	1519.2	1475.3	1400.4	1291.6	1144.9	971.2	786.6	613.9	469.1
117.5°	1455.9	1449.2	1420.4	1370.1	1292.0	1181.6	1049.9	900.0	744.0	594.7	470.9
120°	1382.5	1376.5	1352.5	1296.6	1217.8	1117.0	997.2	862.4	721.7	585.9	474.1
122.5°	1313.8	1306.2	1279.9	1229.6	1159.5	1065.9	954.9	832.9	703.3	580.3	479.7
125°	1217.8	1210.8	1185.8	1141.9	1078.0	998.2	902.4	793.6	679.8	573.0	488.1
127.5°	1138.7	1132.3	1109.8	1072.2	1015.3	942.7	856.2	759.2	659.0	569.4	497.7
130°	1094.0	1086.0	1065.1	1029.1	976.2	908.3	827.5	737.7	647.8	567.0	504.1
132.5°	1050.1	1044.5	1025.9	990.0	940.3	875.6	800.3	717.7	637.4	566.2	508.9
135°	987.2	980.2	962.2	932.3	883.4	826.5	761.6	690.7	623.9	565.0	516.1
137.5°	920.7	916.1	901.0	870.6	829.5	780.2	724.3	666.2	612.1	562.8	520.8
140°	874.4	875.4	859.4	831.5	793.6	750.6	702.7	651.8	604.9	562.0	524.0
142.5°	831.3	832.3	817.9	793.2	760.8	723.5	682.0	638.2	598.5	560.4	526.4
145°	771.6	769.6	761.6	740.6	715.7	686.7	654.8	621.9	589.9	558.0	528.0
147.5°	722.5	721.7	714.1	699.9	681.0	660.4	634.6	608.5	581.5	554.2	528.0
150°	693.7	693.7	687.7	676.8	661.8	642.8	621.9	598.9	575.9	551.0	528.0
152.5°	669.8	669.8	666.2	656.0	644.2	628.5	609.9	590.1	569.6	547.0	525.6
155°	639.8	638.8	636.8	628.9	619.9	607.9	592.9	576.9	560.0	540.0	523.0
157.5°	612.5	612.7	611.1	605.1	597.3	587.9	576.3	563.0	549.2	533.8	519.7
160°	594.9	595.9	595.9	589.9	582.9	575.9	566.0	555.0	542.0	529.0	518.1
162.5°	578.9	579.9	579.9	574.8	570.2	564.0	554.8	545.4	534.8	524.2	514.9
165°	558.0	558.0	559.0	555.0	551.0	546.0	539.0	533.0	525.0	517.1	510.1
167.5°	538.0	538.0	539.0	536.2	534.4	530.8	526.8	522.2	515.7	509.9	505.3
170°	526.0	526.0	527.0	525.0	524.0	522.0	518.1	515.1	510.1	505.1	502.1
172.5°	514.9	515.7	517.5	515.5	515.3	514.1	510.9	508.7	504.5	501.1	499.7
175°	502.1	503.1	504.1	503.1	503.1	503.1	501.1	500.1	498.1	496.1	496.1
177.5°	494.7	494.7	496.3	495.5	496.3	496.3	495.5	494.7	493.9	493.1	493.9
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1



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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°	13.9	12.6	13.3	12.9	14.4	14.4	17.8	20.5	21.5	19.4	20.0
90°	19.0	16.0	13.0	11.0	9.0	6.0	4.0	2.0	4.0	6.0	9.0
92.5°	126.8	83.8	57.7	42.9	34.5	26.8	18.4	12.4	18.4	26.8	34.5
95°	363.3	214.6	129.8	90.8	64.9	47.9	36.9	33.9	36.9	47.9	64.9
97.5°	398.7	231.0	149.9	107.8	82.2	67.5	58.9	57.9	58.9	67.5	82.2
100°	376.3	228.6	158.7	119.8	95.8	81.9	74.9	73.9	74.9	81.9	95.8
102.5°	357.1	231.8	169.1	133.4	111.8	98.6	92.4	90.6	92.4	98.6	111.8
105°	343.4	240.6	186.7	155.7	136.8	124.8	118.8	115.8	118.8	124.8	136.8
107.5°	342.4	256.9	209.6	180.9	163.1	151.3	145.5	142.5	145.5	151.3	163.1
110°	346.4	270.5	225.6	197.6	180.7	169.7	164.7	161.7	164.7	169.7	180.7



TEST NUMBER: P332380

CATALOG NUMBER: S123RDIP-S1165D1025U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	354.4	284.1	242.4	215.2	198.2	187.3	182.3	179.3	182.3	187.3	198.2
115°	367.3	306.4	268.5	241.6	224.6	214.6	208.6	204.6	208.6	214.6	224.6
117.5°	384.5	330.2	292.7	267.7	248.7	239.6	234.6	230.0	234.6	239.6	248.7
120°	397.3	345.4	309.4	284.5	265.5	255.5	250.5	247.5	250.5	255.5	265.5
122.5°	409.3	361.3	326.2	299.7	281.5	270.7	265.7	262.7	265.7	270.7	281.5
125°	428.2	384.3	349.4	322.4	303.4	292.5	286.5	284.5	286.5	292.5	303.4
127.5°	443.8	404.3	370.5	343.6	322.6	311.4	304.0	301.1	304.0	311.4	322.6
130°	454.2	416.2	383.3	356.3	335.4	323.4	314.4	311.4	314.4	323.4	335.4
132.5°	463.8	426.6	394.5	368.3	347.4	333.0	323.2	319.4	323.2	333.0	347.4
135°	476.1	442.2	411.2	384.3	363.3	348.4	337.4	333.4	337.4	348.4	363.3
137.5°	485.3	453.0	423.2	398.3	377.5	361.5	350.8	346.6	350.8	361.5	377.5
140°	490.1	460.2	431.2	406.3	386.3	370.3	360.3	355.4	360.3	370.3	386.3
142.5°	494.9	465.8	437.6	414.2	394.3	379.9	369.1	364.9	369.1	379.9	394.3
145°	500.1	473.1	447.2	424.2	407.3	392.3	383.3	380.3	383.3	392.3	407.3
147.5°	503.3	479.1	455.4	435.8	419.4	406.5	397.7	395.9	397.7	406.5	419.4
150°	504.1	483.1	460.2	442.2	428.2	415.2	407.3	406.3	407.3	415.2	428.2
152.5°	505.7	485.5	465.8	448.6	436.2	424.8	416.8	416.6	416.8	424.8	436.2
155°	506.1	490.1	473.1	459.2	448.2	438.2	432.2	432.2	432.2	438.2	448.2
157.5°	507.1	492.7	479.1	468.3	459.0	450.2	445.4	444.6	445.4	450.2	459.0
160°	507.1	495.1	483.1	473.1	466.1	458.2	454.2	454.2	454.2	458.2	466.1
162.5°	506.3	495.9	485.5	477.1	470.9	464.6	461.4	461.4	461.4	464.6	470.9
165°	504.1	497.1	489.1	482.1	478.1	473.1	471.1	472.1	471.1	473.1	478.1
167.5°	502.5	496.9	491.1	486.7	483.9	480.1	479.1	480.3	479.1	480.1	483.9
170°	500.1	496.1	491.1	489.1	487.1	484.1	483.1	485.1	483.1	484.1	487.1
172.5°	499.3	496.1	491.9	490.7	489.5	487.3	487.1	488.3	487.1	487.3	489.5
175°	497.1	495.1	493.1	492.1	492.1	490.1	491.1	492.1	491.1	490.1	492.1
177.5°	495.5	493.9	493.1	493.1	493.1	492.3	493.1	493.9	493.1	492.3	493.1
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1



TEST NUMBER: P332380

CATALOG NUMBER: S123RDIP-S1165D1025U835-4F0-1E-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°	19.8	22.1	23.3	24.5	25.8	25.7	26.2	26.4	27.2	27.4	27.8
90°	11.0	13.0	16.0	19.0	22.0	25.0	24.0	25.0	26.0	27.0	28.9
92.5°	42.9	57.7	83.8	126.8	168.9	153.5	115.8	84.0	66.7	58.9	53.7
95°	90.8	129.8	214.6	363.3	527.0	591.9	480.1	359.3	243.6	190.7	154.7
97.5°	107.8	149.9	231.0	398.7	671.6	917.3	981.4	895.8	717.5	588.7	469.3
100°	119.8	158.7	228.6	376.3	638.8	945.3	1141.9	1176.9	1096.0	979.2	837.5
102.5°	133.4	169.1	231.8	357.1	590.9	893.4	1149.9	1270.3	1267.7	1199.6	1109.8
105°	155.7	186.7	240.6	343.4	532.0	802.5	1089.0	1297.6	1397.5	1416.4	1390.5
107.5°	180.9	209.6	256.9	342.4	494.5	722.3	982.4	1219.0	1381.1	1468.5	1504.1
110°	197.6	225.6	270.5	346.4	480.1	676.8	915.3	1143.9	1327.6	1453.3	1523.2



TEST NUMBER: P332380

CATALOG NUMBER: S123RDIP-S1165D1025U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	215.2	242.4	284.1	354.4	472.1	646.4	857.0	1069.6	1257.3	1398.2	1488.1
115°	241.6	268.5	306.4	367.3	469.1	613.9	786.6	971.2	1144.9	1291.6	1400.4
117.5°	267.7	292.7	330.2	384.5	470.9	594.7	744.0	900.0	1049.9	1181.6	1292.0
120°	284.5	309.4	345.4	397.3	474.1	585.9	721.7	862.4	997.2	1117.0	1217.8
122.5°	299.7	326.2	361.3	409.3	479.7	580.3	703.3	832.9	954.9	1065.9	1159.5
125°	322.4	349.4	384.3	428.2	488.1	573.0	679.8	793.6	902.4	998.2	1078.0
127.5°	343.6	370.5	404.3	443.8	497.7	569.4	659.0	759.2	856.2	942.7	1015.3
130°	356.3	383.3	416.2	454.2	504.1	567.0	647.8	737.7	827.5	908.3	976.2
132.5°	368.3	394.5	426.6	463.8	508.9	566.2	637.4	717.7	800.3	875.6	940.3
135°	384.3	411.2	442.2	476.1	516.1	565.0	623.9	690.7	761.6	826.5	883.4
137.5°	398.3	423.2	453.0	485.3	520.8	562.8	612.1	666.2	724.3	780.2	829.5
140°	406.3	431.2	460.2	490.1	524.0	562.0	604.9	651.8	702.7	750.6	793.6
142.5°	414.2	437.6	465.8	494.9	526.4	560.4	598.5	638.2	682.0	723.5	760.8
145°	424.2	447.2	473.1	500.1	528.0	558.0	589.9	621.9	654.8	686.7	715.7
147.5°	435.8	455.4	479.1	503.3	528.0	554.2	581.5	608.5	634.6	660.4	681.0
150°	442.2	460.2	483.1	504.1	528.0	551.0	575.9	598.9	621.9	642.8	661.8
152.5°	448.6	465.8	485.5	505.7	525.6	547.0	569.6	590.1	609.9	628.5	644.2
155°	459.2	473.1	490.1	506.1	523.0	540.0	560.0	576.9	592.9	607.9	619.9
157.5°	468.3	479.1	492.7	507.1	519.7	533.8	549.2	563.0	576.3	587.9	597.3
160°	473.1	483.1	495.1	507.1	518.1	529.0	542.0	555.0	566.0	575.9	582.9
162.5°	477.1	485.5	495.9	506.3	514.9	524.2	534.8	545.4	554.8	564.0	570.2
165°	482.1	489.1	497.1	504.1	510.1	517.1	525.0	533.0	539.0	546.0	551.0
167.5°	486.7	491.1	496.9	502.5	505.3	509.9	515.7	522.2	526.8	530.8	534.4
170°	489.1	491.1	496.1	500.1	502.1	505.1	510.1	515.1	518.1	522.0	524.0
172.5°	490.7	491.9	496.1	499.3	499.7	501.1	504.5	508.7	510.9	514.1	515.3
175°	492.1	493.1	495.1	497.1	496.1	496.1	498.1	500.1	501.1	503.1	503.1
177.5°	493.1	493.1	493.9	495.5	493.9	493.1	493.9	494.7	495.5	496.3	496.3
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1



TEST NUMBER: P332380

CATALOG NUMBER: S123RDIP-S1165D1025U835-4F0-1E-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°	28.9	27.8	28.0	28.4	28.0	27.8	28.9	27.8	27.4	27.2	26.4
90°	27.9	28.9	29.9	28.9	29.9	28.9	27.9	28.9	27.0	26.0	25.0
92.5°	51.9	48.9	49.9	48.1	49.9	48.9	51.9	53.7	58.9	66.7	84.0
95°	135.8	126.8	119.8	115.8	119.8	126.8	135.8	154.7	190.7	243.6	359.3
97.5°	395.7	350.8	323.8	315.2	323.8	350.8	395.7	469.3	588.7	717.5	895.8
100°	736.7	663.8	624.9	625.9	624.9	663.8	736.7	837.5	979.2	1096.0	1176.9
102.5°	1031.3	973.6	941.1	918.1	941.1	973.6	1031.3	1109.8	1199.6	1267.7	1270.3
105°	1344.5	1306.6	1274.7	1269.7	1274.7	1306.6	1344.5	1390.5	1416.4	1397.5	1297.6
107.5°	1504.9	1492.1	1481.3	1472.1	1481.3	1492.1	1504.9	1504.1	1468.5	1381.1	1219.0
110°	1551.2	1559.2	1557.2	1555.2	1557.2	1559.2	1551.2	1523.2	1453.3	1327.6	1143.9



TEST NUMBER: P332380

CATALOG NUMBER: S123RDIP-S1165D1025U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1539.2	1563.9	1571.5	1571.9	1571.5	1563.9	1539.2	1488.1	1398.2	1257.3	1069.6
115°	1475.3	1519.2	1539.2	1544.2	1539.2	1519.2	1475.3	1400.4	1291.6	1144.9	971.2
117.5°	1370.1	1420.4	1449.2	1455.9	1449.2	1420.4	1370.1	1292.0	1181.6	1049.9	900.0
120°	1296.6	1352.5	1376.5	1382.5	1376.5	1352.5	1296.6	1217.8	1117.0	997.2	862.4
122.5°	1229.6	1279.9	1306.2	1313.8	1306.2	1279.9	1229.6	1159.5	1065.9	954.9	832.9
125°	1141.9	1185.8	1210.8	1217.8	1210.8	1185.8	1141.9	1078.0	998.2	902.4	793.6
127.5°	1072.2	1109.8	1132.3	1138.7	1132.3	1109.8	1072.2	1015.3	942.7	856.2	759.2
130°	1029.1	1065.1	1086.0	1094.0	1086.0	1065.1	1029.1	976.2	908.3	827.5	737.7
132.5°	990.0	1025.9	1044.5	1050.1	1044.5	1025.9	990.0	940.3	875.6	800.3	717.7
135°	932.3	962.2	980.2	987.2	980.2	962.2	932.3	883.4	826.5	761.6	690.7
137.5°	870.6	901.0	916.1	920.7	916.1	901.0	870.6	829.5	780.2	724.3	666.2
140°	831.5	859.4	875.4	874.4	875.4	859.4	831.5	793.6	750.6	702.7	651.8
142.5°	793.2	817.9	832.3	831.3	832.3	817.9	793.2	760.8	723.5	682.0	638.2
145°	740.6	761.6	769.6	771.6	769.6	761.6	740.6	715.7	686.7	654.8	621.9
147.5°	699.9	714.1	721.7	722.5	721.7	714.1	699.9	681.0	660.4	634.6	608.5
150°	676.8	687.7	693.7	693.7	693.7	687.7	676.8	661.8	642.8	621.9	598.9
152.5°	656.0	666.2	669.8	669.8	669.8	666.2	656.0	644.2	628.5	609.9	590.1
155°	628.9	636.8	638.8	639.8	638.8	636.8	628.9	619.9	607.9	592.9	576.9
157.5°	605.1	611.1	612.7	612.5	612.7	611.1	605.1	597.3	587.9	576.3	563.0
160°	589.9	595.9	595.9	594.9	595.9	595.9	589.9	582.9	575.9	566.0	555.0
162.5°	574.8	579.9	579.9	578.9	579.9	579.9	574.8	570.2	564.0	554.8	545.4
165°	555.0	559.0	558.0	558.0	558.0	559.0	555.0	551.0	546.0	539.0	533.0
167.5°	536.2	539.0	538.0	538.0	538.0	539.0	536.2	534.4	530.8	526.8	522.2
170°	525.0	527.0	526.0	526.0	526.0	527.0	525.0	524.0	522.0	518.1	515.1
172.5°	515.5	517.5	515.7	514.9	515.7	517.5	515.5	515.3	514.1	510.9	508.7
175°	503.1	504.1	503.1	502.1	503.1	504.1	503.1	503.1	503.1	501.1	500.1
177.5°	495.5	496.3	494.7	494.7	494.7	496.3	495.5	496.3	496.3	495.5	494.7
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1



TEST NUMBER: P332380

CATALOG NUMBER: S123RDIP-S1165D1025U835-4F0-1E-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°	26.2	25.7	25.8	24.5	23.3	22.1	19.8	20.0	19.4	21.5	20.5
90°	24.0	25.0	22.0	19.0	16.0	13.0	11.0	9.0	6.0	4.0	2.0
92.5°	115.8	153.5	168.9	126.8	83.8	57.7	42.9	34.5	26.8	18.4	12.4
95°	480.1	591.9	527.0	363.3	214.6	129.8	90.8	64.9	47.9	36.9	33.9
97.5°	981.4	917.3	671.6	398.7	231.0	149.9	107.8	82.2	67.5	58.9	57.9
100°	1141.9	945.3	638.8	376.3	228.6	158.7	119.8	95.8	81.9	74.9	73.9
102.5°	1149.9	893.4	590.9	357.1	231.8	169.1	133.4	111.8	98.6	92.4	90.6
105°	1089.0	802.5	532.0	343.4	240.6	186.7	155.7	136.8	124.8	118.8	115.8
107.5°	982.4	722.3	494.5	342.4	256.9	209.6	180.9	163.1	151.3	145.5	142.5
110°	915.3	676.8	480.1	346.4	270.5	225.6	197.6	180.7	169.7	164.7	161.7



TEST NUMBER: P332380

CATALOG NUMBER: S123RDIP-S1165D1025U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	857.0	646.4	472.1	354.4	284.1	242.4	215.2	198.2	187.3	182.3	179.3
115°	786.6	613.9	469.1	367.3	306.4	268.5	241.6	224.6	214.6	208.6	204.6
117.5°	744.0	594.7	470.9	384.5	330.2	292.7	267.7	248.7	239.6	234.6	230.0
120°	721.7	585.9	474.1	397.3	345.4	309.4	284.5	265.5	255.5	250.5	247.5
122.5°	703.3	580.3	479.7	409.3	361.3	326.2	299.7	281.5	270.7	265.7	262.7
125°	679.8	573.0	488.1	428.2	384.3	349.4	322.4	303.4	292.5	286.5	284.5
127.5°	659.0	569.4	497.7	443.8	404.3	370.5	343.6	322.6	311.4	304.0	301.1
130°	647.8	567.0	504.1	454.2	416.2	383.3	356.3	335.4	323.4	314.4	311.4
132.5°	637.4	566.2	508.9	463.8	426.6	394.5	368.3	347.4	333.0	323.2	319.4
135°	623.9	565.0	516.1	476.1	442.2	411.2	384.3	363.3	348.4	337.4	333.4
137.5°	612.1	562.8	520.8	485.3	453.0	423.2	398.3	377.5	361.5	350.8	346.6
140°	604.9	562.0	524.0	490.1	460.2	431.2	406.3	386.3	370.3	360.3	355.4
142.5°	598.5	560.4	526.4	494.9	465.8	437.6	414.2	394.3	379.9	369.1	364.9
145°	589.9	558.0	528.0	500.1	473.1	447.2	424.2	407.3	392.3	383.3	380.3
147.5°	581.5	554.2	528.0	503.3	479.1	455.4	435.8	419.4	406.5	397.7	395.9
150°	575.9	551.0	528.0	504.1	483.1	460.2	442.2	428.2	415.2	407.3	406.3
152.5°	569.6	547.0	525.6	505.7	485.5	465.8	448.6	436.2	424.8	416.8	416.6
155°	560.0	540.0	523.0	506.1	490.1	473.1	459.2	448.2	438.2	432.2	432.2
157.5°	549.2	533.8	519.7	507.1	492.7	479.1	468.3	459.0	450.2	445.4	444.6
160°	542.0	529.0	518.1	507.1	495.1	483.1	473.1	466.1	458.2	454.2	454.2
162.5°	534.8	524.2	514.9	506.3	495.9	485.5	477.1	470.9	464.6	461.4	461.4
165°	525.0	517.1	510.1	504.1	497.1	489.1	482.1	478.1	473.1	471.1	472.1
167.5°	515.7	509.9	505.3	502.5	496.9	491.1	486.7	483.9	480.1	479.1	480.3
170°	510.1	505.1	502.1	500.1	496.1	491.1	489.1	487.1	484.1	483.1	485.1
172.5°	504.5	501.1	499.7	499.3	496.1	491.9	490.7	489.5	487.3	487.1	488.3
175°	498.1	496.1	496.1	497.1	495.1	493.1	492.1	492.1	490.1	491.1	492.1
177.5°	493.9	493.1	493.9	495.5	493.9	493.1	493.1	493.1	492.3	493.1	493.9
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1



TEST NUMBER: P332380

CATALOG NUMBER: S123RDIP-S1165D1025U835-4F0-1E-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°	17.8	14.4	14.4	12.9	13.3	12.6	13.9	13.2	13.2	13.6	12.5
90°	4.0	6.0	9.0	11.0	13.0	16.0	19.0	22.0	25.0	24.0	25.0
92.5°	18.4	26.8	34.5	42.9	57.7	83.8	126.8	168.9	153.5	115.8	84.0
95°	36.9	47.9	64.9	90.8	129.8	214.6	363.3	527.0	591.9	480.1	359.3
97.5°	58.9	67.5	82.2	107.8	149.9	231.0	398.7	671.6	917.3	981.4	895.8
100°	74.9	81.9	95.8	119.8	158.7	228.6	376.3	638.8	945.3	1141.9	1176.9
102.5°	92.4	98.6	111.8	133.4	169.1	231.8	357.1	590.9	893.4	1149.9	1270.3
105°	118.8	124.8	136.8	155.7	186.7	240.6	343.4	532.0	802.5	1089.0	1297.6
107.5°	145.5	151.3	163.1	180.9	209.6	256.9	342.4	494.5	722.3	982.4	1219.0
110°	164.7	169.7	180.7	197.6	225.6	270.5	346.4	480.1	676.8	915.3	1143.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	182.3	187.3	198.2	215.2	242.4	284.1	354.4	472.1	646.4	857.0	1069.6
115°	208.6	214.6	224.6	241.6	268.5	306.4	367.3	469.1	613.9	786.6	971.2
117.5°	234.6	239.6	248.7	267.7	292.7	330.2	384.5	470.9	594.7	744.0	900.0
120°	250.5	255.5	265.5	284.5	309.4	345.4	397.3	474.1	585.9	721.7	862.4
122.5°	265.7	270.7	281.5	299.7	326.2	361.3	409.3	479.7	580.3	703.3	832.9
125°	286.5	292.5	303.4	322.4	349.4	384.3	428.2	488.1	573.0	679.8	793.6
127.5°	304.0	311.4	322.6	343.6	370.5	404.3	443.8	497.7	569.4	659.0	759.2
130°	314.4	323.4	335.4	356.3	383.3	416.2	454.2	504.1	567.0	647.8	737.7
132.5°	323.2	333.0	347.4	368.3	394.5	426.6	463.8	508.9	566.2	637.4	717.7
135°	337.4	348.4	363.3	384.3	411.2	442.2	476.1	516.1	565.0	623.9	690.7
137.5°	350.8	361.5	377.5	398.3	423.2	453.0	485.3	520.8	562.8	612.1	666.2
140°	360.3	370.3	386.3	406.3	431.2	460.2	490.1	524.0	562.0	604.9	651.8
142.5°	369.1	379.9	394.3	414.2	437.6	465.8	494.9	526.4	560.4	598.5	638.2
145°	383.3	392.3	407.3	424.2	447.2	473.1	500.1	528.0	558.0	589.9	621.9
147.5°	397.7	406.5	419.4	435.8	455.4	479.1	503.3	528.0	554.2	581.5	608.5
150°	407.3	415.2	428.2	442.2	460.2	483.1	504.1	528.0	551.0	575.9	598.9
152.5°	416.8	424.8	436.2	448.6	465.8	485.5	505.7	525.6	547.0	569.6	590.1
155°	432.2	438.2	448.2	459.2	473.1	490.1	506.1	523.0	540.0	560.0	576.9
157.5°	445.4	450.2	459.0	468.3	479.1	492.7	507.1	519.7	533.8	549.2	563.0
160°	454.2	458.2	466.1	473.1	483.1	495.1	507.1	518.1	529.0	542.0	555.0
162.5°	461.4	464.6	470.9	477.1	485.5	495.9	506.3	514.9	524.2	534.8	545.4
165°	471.1	473.1	478.1	482.1	489.1	497.1	504.1	510.1	517.1	525.0	533.0
167.5°	479.1	480.1	483.9	486.7	491.1	496.9	502.5	505.3	509.9	515.7	522.2
170°	483.1	484.1	487.1	489.1	491.1	496.1	500.1	502.1	505.1	510.1	515.1
172.5°	487.1	487.3	489.5	490.7	491.9	496.1	499.3	499.7	501.1	504.5	508.7
175°	491.1	490.1	492.1	492.1	493.1	495.1	497.1	496.1	496.1	498.1	500.1
177.5°	493.1	492.3	493.1	493.1	493.1	493.9	495.5	493.9	493.1	493.9	494.7
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0
2.5°	1936.6	1936.6	1939.1	1948.6	1949.8	1958.0	1955.5
5°	2128.4	2143.3	2148.8	2172.4	2186.6	2192.9	2180.3
7.5°	2362.9	2405.1	2425.0	2449.7	2471.6	2478.2	2461.0
10°	2534.0	2578.0	2614.9	2637.7	2658.9	2673.1	2691.2
12.5°	2699.3	2753.4	2788.5	2820.7	2842.5	2860.5	2863.4
15°	2879.0	2960.7	3022.8	3068.4	3091.2	3103.0	3098.3
17.5°	3060.2	3136.0	3180.2	3226.7	3258.3	3259.9	3260.8
20°	3162.7	3236.6	3287.7	3322.3	3357.7	3356.1	3363.9
22.5°	3231.3	3289.4	3328.6	3353.7	3365.8	3359.9	3361.4
25°	3263.3	3280.6	3273.6	3233.5	3223.3	3186.3	3192.6
27.5°	3098.0	3016.2	2931.7	2822.9	2737.1	2668.5	2672.0
30°	2873.5	2728.9	2563.8	2425.5	2301.3	2266.7	2192.9
32.5°	2559.7	2342.8	2149.5	2020.6	1914.0	1885.1	1820.6
35°	2027.8	1817.2	1618.3	1498.8	1451.7	1385.7	1384.9
37.5°	1576.2	1390.7	1285.5	1195.9	1148.9	1109.0	1105.1
40°	1325.9	1181.3	1101.9	1037.5	991.1	961.2	954.2
42.5°	1151.1	1034.2	959.8	919.9	884.2	868.8	857.3
45°	940.0	861.4	809.5	773.4	756.9	745.1	738.8
47.5°	786.3	733.6	698.3	674.2	660.8	648.4	651.7
50°	702.7	659.4	633.5	610.7	600.5	591.8	592.6
52.5°	635.4	596.6	575.6	559.1	546.4	540.3	537.3
55°	539.2	514.8	493.6	481.8	474.7	466.1	463.7
57.5°	459.9	441.1	423.8	410.4	408.7	400.4	401.5
60°	407.1	391.4	377.3	370.2	364.7	357.6	360.0
62.5°	363.7	350.5	337.7	331.8	326.3	321.1	322.2
65°	297.9	285.3	277.4	274.3	271.9	269.6	267.2
67.5°	237.4	229.7	224.8	218.0	213.2	212.4	210.0
70°	199.6	189.4	180.8	172.1	169.8	169.0	169.8
72.5°	160.0	153.6	151.2	147.0	146.5	144.5	145.9
75°	120.3	117.9	116.3	113.2	113.2	113.2	113.2
77.5°	88.7	87.2	86.3	85.7	84.9	83.8	83.6
80°	69.2	68.4	66.8	66.8	66.0	66.8	66.0
82.5°	52.2	52.0	50.5	50.5	49.7	49.2	49.7
85°	26.7	25.9	27.5	25.9	26.7	25.2	26.7
87.5°	12.7	12.9	12.7	12.5	12.1	13.5	12.1
90°	26.0	27.0	28.9	27.9	28.9	29.9	28.9
92.5°	66.7	58.9	53.7	51.9	48.9	49.9	48.1
95°	243.6	190.7	154.7	135.8	126.8	119.8	115.8
97.5°	717.5	588.7	469.3	395.7	350.8	323.8	315.2
100°	1096.0	979.2	837.5	736.7	663.8	624.9	625.9
102.5°	1267.7	1199.6	1109.8	1031.3	973.6	941.1	918.1
105°	1397.5	1416.4	1390.5	1344.5	1306.6	1274.7	1269.7
107.5°	1381.1	1468.5	1504.1	1504.9	1492.1	1481.3	1472.1
110°	1327.6	1453.3	1523.2	1551.2	1559.2	1557.2	1555.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1257.3	1398.2	1488.1	1539.2	1563.9	1571.5	1571.9
115°	1144.9	1291.6	1400.4	1475.3	1519.2	1539.2	1544.2
117.5°	1049.9	1181.6	1292.0	1370.1	1420.4	1449.2	1455.9
120°	997.2	1117.0	1217.8	1296.6	1352.5	1376.5	1382.5
122.5°	954.9	1065.9	1159.5	1229.6	1279.9	1306.2	1313.8
125°	902.4	998.2	1078.0	1141.9	1185.8	1210.8	1217.8
127.5°	856.2	942.7	1015.3	1072.2	1109.8	1132.3	1138.7
130°	827.5	908.3	976.2	1029.1	1065.1	1086.0	1094.0
132.5°	800.3	875.6	940.3	990.0	1025.9	1044.5	1050.1
135°	761.6	826.5	883.4	932.3	962.2	980.2	987.2
137.5°	724.3	780.2	829.5	870.6	901.0	916.1	920.7
140°	702.7	750.6	793.6	831.5	859.4	875.4	874.4
142.5°	682.0	723.5	760.8	793.2	817.9	832.3	831.3
145°	654.8	686.7	715.7	740.6	761.6	769.6	771.6
147.5°	634.6	660.4	681.0	699.9	714.1	721.7	722.5
150°	621.9	642.8	661.8	676.8	687.7	693.7	693.7
152.5°	609.9	628.5	644.2	656.0	666.2	669.8	669.8
155°	592.9	607.9	619.9	628.9	636.8	638.8	639.8
157.5°	576.3	587.9	597.3	605.1	611.1	612.7	612.5
160°	566.0	575.9	582.9	589.9	595.9	595.9	594.9
162.5°	554.8	564.0	570.2	574.8	579.9	579.9	578.9
165°	539.0	546.0	551.0	555.0	559.0	558.0	558.0
167.5°	526.8	530.8	534.4	536.2	539.0	538.0	538.0
170°	518.1	522.0	524.0	525.0	527.0	526.0	526.0
172.5°	510.9	514.1	515.3	515.5	517.5	515.7	514.9
175°	501.1	503.1	503.1	503.1	504.1	503.1	502.1
177.5°	495.5	496.3	496.3	495.5	496.3	494.7	494.7
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1

(END OF REPORT)