

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: P331849

Luminaire Tested: **S122RDIW-S1005D710U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331849  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIW-S1005D710U835-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 710 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

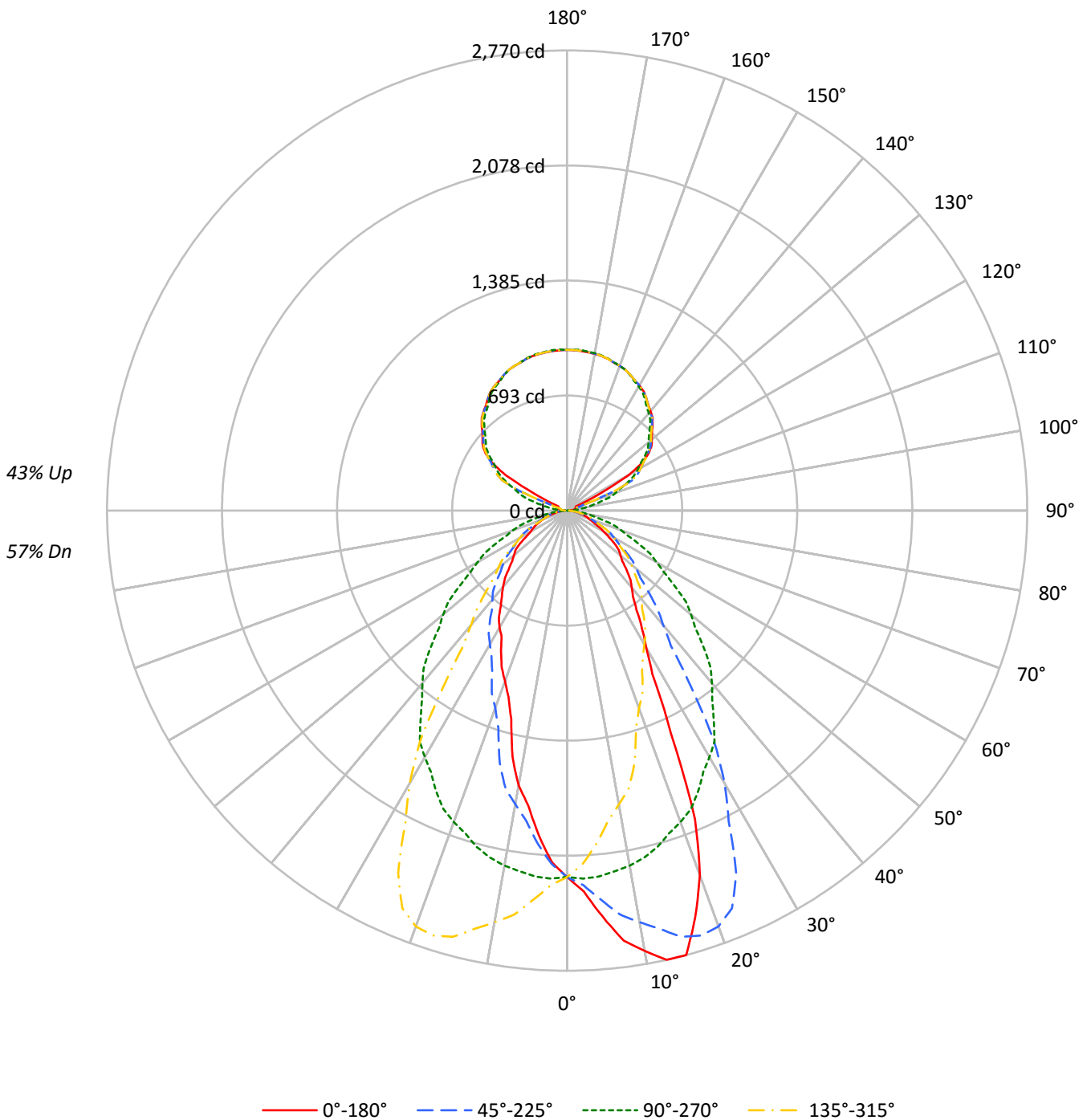
Lumens per Lamp: N/A  
Luminaire Lumens: 6649.1 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 59.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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																		
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	109	109	109	109	101	101	101	101	87	87	87	75	75	75	63	63	63	57									57																			
1	100	96	93	89	93	90	87	84	78	76	74	67	65	64	57	56	55	50									50																			
2	92	85	79	75	86	80	75	70	69	66	62	60	57	55	51	49	48	43									43																			
3	85	76	69	63	79	71	65	60	62	58	54	54	51	48	46	44	42	38									38																			
4	78	68	60	55	73	64	57	52	56	51	47	49	45	42	42	39	37	34									34																			
5	72	61	53	48	67	57	51	45	51	45	41	44	40	37	38	35	33	30									30																			
6	67	55	47	42	62	52	45	40	46	41	36	41	36	33	35	32	29	27									27																			
7	62	50	43	37	58	48	41	36	42	37	33	37	33	30	33	29	27	24									24																			
8	58	46	39	33	54	44	37	32	39	33	29	34	30	27	30	27	24	22									22																			
9	54	42	35	30	51	40	34	29	36	31	27	32	28	24	28	25	22	20									20																			
10	51	39	32	27	48	37	31	26	33	28	24	30	25	22	26	23	20	19									19																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	35608	35608	35608	35608
5°	39768	35832	31770	35832
10°	44124	35580	27539	35580
15°	46292	35059	21698	35059
20°	40132	34287	18777	34287
25°	26320	33228	16764	33228
30°	17715	31946	15172	31946
35°	14349	30328	13685	30328
40°	12760	28572	12663	28572
45°	11549	26510	11303	26510
50°	10510	24465	10472	24465
55°	9880	22196	9751	22196
60°	8263	20118	8167	20118
65°	6968	18269	7904	18269
70°	6439	16315	7454	16315
75°	6026	14198	6881	14198
80°	5560	11688	6127	11688
85°	5113	9226	5391	9226



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.1	3.1
10°-20°	582.5	8.8
20°-30°	750.7	11.3
30°-40°	713.4	10.7
40°-50°	611.1	9.2
50°-60°	465.4	7.0
60°-70°	294.2	4.4
70°-80°	146.9	2.2
80°-90°	40.6	0.6
90°-100°	32.3	0.5
100°-110°	118.3	1.8
110°-120°	316.3	4.8
120°-130°	522.2	7.9
130°-140°	555.4	8.4
140°-150°	516.2	7.8
150°-160°	415.0	6.2
160°-170°	267.4	4.0
170°-180°	92.1	1.4
0°-30°	1542.3	23.2
0°-40°	2255.7	33.9
0°-60°	3332.1	50.1
0°-90°	3813.9	57.4
90°-120°	467.0	7.0
90°-150°	2060.7	31.0
90°-180°	2835.0	42.6
0°-180°	6649.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2205	2205	2205	2205	2205	
5°	2454	2211	1960	2211	2454	242
15°	2769	2097	1298	2097	2769	747
25°	1477	1865	941	1865	1477	701
35°	728	1539	694	1539	728	466
45°	506	1161	495	1161	506	391
55°	351	788	346	788	351	308
65°	182	478	207	478	182	186
75°	97	228	110	228	97	102
85°	28	50	29	50	28	30
90°	19	1	19	1	19	10
95°	30	46	30	46	30	28
105°	53	213	53	213	53	55
115°	57	402	57	402	57	144
125°	598	569	598	569	598	518
135°	727	704	727	704	727	561
145°	830	817	830	817	830	519
155°	900	900	900	900	900	415
165°	946	948	946	948	946	267
175°	964	970	964	970	964	92
180°	968	968	968	968	968	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2294.9	2296.8	2298.6	2294.3	2294.3	2290.6	2282.7	2276.5	2259.4	2256.9	2256.9
5°	2453.7	2452.2	2455.2	2445.3	2431.5	2428.4	2413.9	2394.7	2374.8	2352.6	2348.0
7.5°	2611.6	2609.3	2603.1	2601.5	2590.9	2567.7	2544.3	2519.3	2486.2	2453.9	2437.6
10°	2691.3	2716.6	2701.2	2674.4	2679.8	2643.8	2624.6	2591.7	2564.1	2515.8	2505.1
12.5°	2769.7	2779.7	2774.8	2759.6	2752.7	2727.7	2701.8	2673.2	2622.3	2578.9	2541.2
15°	2769.4	2784.0	2787.8	2783.2	2787.1	2785.5	2771.7	2748.0	2703.5	2656.0	2614.6
17.5°	2565.0	2575.1	2600.2	2617.2	2638.7	2684.1	2706.4	2715.2	2708.6	2681.5	2652.3
20°	2335.7	2318.8	2389.3	2425.4	2456.0	2532.6	2598.5	2623.8	2664.4	2663.7	2656.0
22.5°	2010.8	2014.8	2081.6	2124.4	2213.9	2290.5	2365.6	2460.8	2539.4	2591.3	2621.7
25°	1477.4	1506.6	1573.2	1631.5	1731.1	1873.6	2003.1	2153.3	2295.1	2407.0	2513.5
27.5°	1109.6	1111.8	1164.6	1218.4	1277.6	1394.4	1557.4	1736.8	1938.9	2105.7	2297.5
30°	950.2	945.6	967.8	1000.8	1051.4	1141.8	1264.4	1440.7	1642.2	1893.5	2117.3
32.5°	837.4	837.7	854.4	878.8	920.8	981.8	1065.8	1208.9	1399.4	1646.5	1908.9
35°	728.0	727.2	739.5	757.1	774.7	813.8	871.3	946.4	1077.4	1308.1	1576.3
37.5°	649.5	652.9	658.9	669.9	689.4	711.1	745.6	796.0	889.4	1025.8	1251.2
40°	605.4	606.9	615.3	624.5	636.0	652.9	681.2	721.9	790.1	898.9	1063.6
42.5°	564.9	566.5	572.4	581.0	590.1	606.9	630.4	665.5	720.8	805.7	941.6
45°	505.8	505.8	511.1	515.0	524.9	540.2	559.4	588.5	626.8	689.7	780.1
47.5°	450.3	450.4	454.0	460.6	466.8	478.8	497.6	521.4	549.3	597.9	675.1
50°	418.4	419.2	421.5	426.8	430.7	441.4	456.0	476.6	505.8	543.3	607.7
52.5°	392.7	392.2	395.1	397.4	400.0	407.7	418.6	436.8	462.8	495.5	548.8
55°	351.0	347.9	352.5	356.3	358.6	361.7	367.8	379.3	401.5	429.1	469.0
57.5°	298.9	297.6	300.9	304.4	311.6	319.9	325.1	332.4	343.9	363.7	403.2
60°	255.9	255.9	262.8	265.1	273.6	284.3	295.0	301.2	312.7	325.7	354.8
62.5°	217.9	218.6	221.8	224.1	228.8	242.0	257.0	270.5	281.4	293.8	313.1
65°	182.4	183.9	183.9	185.4	188.5	191.6	197.7	208.4	227.6	245.2	259.8
67.5°	154.8	155.3	155.7	157.2	158.0	161.4	163.8	168.6	173.0	189.7	207.8
70°	136.4	138.7	137.9	139.5	140.2	141.8	144.8	147.1	154.0	157.9	168.6
72.5°	119.2	120.9	120.8	121.7	123.7	124.0	126.4	128.7	133.2	136.4	142.2
75°	96.6	95.8	96.6	98.1	98.9	99.6	99.6	102.7	105.0	108.0	111.9
77.5°	74.5	75.3	75.1	75.3	75.4	76.8	76.6	78.0	80.3	81.8	83.7
80°	59.8	60.5	59.8	60.5	61.3	62.1	61.3	62.1	64.4	65.9	65.9
82.5°	46.3	46.4	46.9	47.1	47.2	47.4	48.4	48.6	50.3	50.0	50.6
85°	27.6	26.8	26.8	26.8	27.6	28.4	27.6	27.6	28.4	28.4	28.4
87.5°	13.6	14.1	14.1	14.0	14.0	13.8	13.7	14.1	13.4	13.8	13.0
90°	18.9	18.6	18.3	18.0	17.7	17.1	16.3	15.6	14.8	14.0	12.8
92.5°	18.9	18.7	18.5	18.3	18.2	17.9	17.5	17.1	16.6	16.2	15.6
95°	30.1	30.3	30.4	30.6	30.7	30.4	29.6	28.9	28.1	27.3	26.2
97.5°	40.2	40.0	39.8	39.6	39.4	39.0	38.4	37.8	37.2	36.5	34.0
100°	46.9	46.6	46.3	46.0	45.7	44.9	43.6	42.4	41.1	39.9	37.3
102.5°	50.3	49.8	49.4	49.0	48.5	47.5	45.9	44.3	42.6	41.0	63.1
105°	53.2	52.6	52.0	51.3	50.7	49.5	47.8	46.1	44.4	42.7	85.2
107.5°	54.7	54.1	53.5	52.9	52.3	52.8	54.6	56.3	58.0	59.8	110.7
110°	55.3	54.7	54.1	53.4	52.8	60.3	75.8	91.4	107.0	122.5	167.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	55.9	55.4	54.9	54.4	53.9	82.0	138.8	195.5	252.3	309.0	320.1
115°	57.4	68.6	79.8	91.0	102.2	143.8	215.8	287.9	359.9	431.9	428.0
117.5°	234.4	271.2	308.0	344.8	381.6	408.7	426.1	443.6	461.0	478.4	475.7
120°	427.0	448.0	469.0	490.0	511.0	520.6	518.7	516.9	515.0	513.1	510.3
122.5°	532.9	537.0	541.0	545.1	549.2	550.7	549.5	548.4	547.3	546.2	543.1
125°	598.5	598.1	597.6	597.1	596.7	595.9	594.8	593.7	592.6	591.5	588.6
127.5°	640.0	639.9	639.8	639.7	639.6	638.8	637.2	635.6	634.0	632.4	630.2
130°	665.8	665.9	666.1	666.2	666.4	665.6	663.9	662.2	660.5	658.8	657.0
132.5°	691.0	691.1	691.3	691.4	691.6	690.9	689.5	688.0	686.5	685.1	683.4
135°	727.4	727.7	728.0	728.3	728.6	728.0	726.4	724.9	723.3	721.8	720.4
137.5°	760.5	761.1	761.6	762.1	762.7	762.2	760.6	759.1	757.6	756.1	754.5
140°	781.3	782.0	782.8	783.6	784.4	784.1	782.7	781.3	779.9	778.5	776.7
142.5°	801.4	802.2	803.0	803.8	804.5	804.3	803.0	801.7	800.5	799.2	797.2
145°	829.6	830.3	831.1	831.9	832.7	832.5	831.4	830.3	829.3	828.2	825.5
147.5°	854.3	855.0	855.7	856.3	857.0	856.9	856.1	855.3	854.5	853.6	851.0
150°	869.5	870.2	871.0	871.8	872.6	872.5	871.6	870.6	869.7	868.8	866.3
152.5°	882.3	883.4	884.4	885.4	886.5	886.5	885.6	884.6	883.7	882.8	880.4
155°	900.3	901.5	902.8	904.0	905.2	905.4	904.5	903.5	902.6	901.7	899.8
157.5°	916.6	917.9	919.1	920.3	921.5	921.6	920.5	919.5	918.4	917.3	916.0
160°	926.2	927.3	928.3	929.4	930.5	930.6	929.7	928.7	927.8	926.9	925.9
162.5°	934.0	935.3	936.7	938.0	939.4	939.5	938.4	937.4	936.3	935.3	934.5
165°	945.8	946.9	948.0	949.0	950.1	950.1	949.0	948.0	946.9	945.8	945.3
167.5°	953.2	954.6	956.0	957.4	958.8	958.9	957.9	956.8	955.7	954.6	954.2
170°	957.7	959.1	960.5	961.9	963.3	963.4	962.3	961.3	960.2	959.1	958.8
172.5°	961.0	962.4	963.8	965.2	966.6	966.8	965.7	964.6	963.5	962.4	962.1
175°	964.0	965.5	967.1	968.6	970.2	970.4	969.3	968.3	967.2	966.1	965.8
177.5°	965.8	966.9	968.0	969.2	970.3	970.4	969.5	968.7	967.8	966.9	966.8
180°	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2258.2	2253.2	2249.0	2237.9	2232.4	2220.1	2218.3	2217.7	2201.8	2186.4	2182.1
5°	2335.7	2323.4	2305.1	2283.6	2261.4	2238.4	2223.1	2210.8	2180.1	2151.0	2134.2
7.5°	2413.9	2387.5	2355.8	2315.2	2281.3	2243.3	2215.1	2189.8	2146.3	2104.6	2076.5
10°	2472.1	2429.2	2387.0	2331.1	2287.4	2244.5	2204.7	2170.2	2121.1	2066.0	2026.9
12.5°	2508.3	2461.1	2403.0	2348.3	2291.7	2237.2	2183.8	2139.5	2081.9	2024.9	1978.5
15°	2557.2	2506.6	2436.1	2357.9	2285.1	2213.9	2152.6	2097.4	2022.3	1954.1	1897.4
17.5°	2597.2	2527.6	2451.9	2361.5	2277.2	2186.6	2107.7	2037.2	1953.6	1871.3	1804.5
20°	2610.0	2541.1	2453.7	2363.3	2263.7	2157.2	2072.1	1995.5	1905.8	1816.1	1739.5
22.5°	2602.1	2548.4	2451.3	2343.1	2241.0	2129.6	2033.5	1944.6	1845.1	1753.6	1664.7
25°	2548.0	2529.6	2437.6	2319.6	2203.1	2073.6	1962.5	1865.2	1751.8	1653.7	1557.1
27.5°	2421.8	2461.5	2404.5	2278.8	2149.3	2010.5	1885.6	1774.8	1657.1	1546.7	1450.5
30°	2300.5	2391.6	2367.1	2250.6	2105.8	1969.4	1829.2	1713.5	1587.8	1474.4	1379.4
32.5°	2134.3	2285.0	2308.9	2211.4	2061.7	1911.8	1764.8	1649.7	1518.5	1399.0	1306.4
35°	1869.8	2095.1	2198.5	2136.5	1986.3	1824.6	1672.8	1538.7	1406.9	1288.9	1197.0
37.5°	1554.2	1861.1	2033.5	2037.9	1900.0	1731.9	1566.6	1433.5	1298.6	1182.7	1083.3
40°	1349.5	1682.0	1906.6	1956.4	1839.9	1658.3	1491.2	1355.6	1223.8	1110.4	996.2
42.5°	1165.6	1496.9	1772.9	1859.5	1767.0	1586.6	1418.9	1277.1	1149.0	1041.7	925.1
45°	942.6	1232.2	1536.4	1691.2	1639.9	1472.8	1295.8	1161.0	1040.6	947.9	836.0
47.5°	795.1	999.3	1293.7	1503.0	1502.1	1349.6	1175.5	1046.3	934.7	847.8	757.3
50°	711.1	888.9	1138.0	1375.5	1395.4	1267.5	1101.9	974.0	869.8	778.6	705.8
52.5°	635.7	782.2	1006.2	1233.9	1290.6	1179.8	1019.2	901.0	799.9	716.0	653.7
55°	537.2	650.6	820.7	1033.7	1119.6	1041.4	898.9	788.5	706.5	636.0	582.4
57.5°	454.4	539.5	676.0	847.5	947.5	898.3	780.7	691.1	620.9	557.1	514.8
60°	402.3	472.0	587.8	731.1	841.4	806.9	706.5	623.0	563.2	508.1	468.2
62.5°	353.3	413.2	512.4	628.7	729.8	715.6	633.6	563.5	511.1	460.9	427.1
65°	284.3	328.0	405.4	496.6	577.8	584.7	525.7	478.2	431.4	391.6	361.7
67.5°	226.4	254.9	309.4	386.2	447.1	468.8	432.8	396.5	359.4	328.6	302.7
70°	190.8	213.8	253.6	315.7	371.7	394.6	374.0	345.6	313.4	288.1	265.9
72.5°	154.6	177.0	206.4	252.0	299.9	324.8	317.6	297.2	271.1	250.1	229.1
75°	116.5	123.4	143.3	174.0	211.5	233.0	238.3	227.6	206.9	190.8	178.5
77.5°	86.1	90.3	99.8	115.9	140.4	159.5	167.4	166.1	151.9	142.5	131.0
80°	69.0	71.3	75.9	82.8	101.2	120.3	125.7	125.7	115.7	111.9	100.4
82.5°	52.4	54.1	56.9	60.7	69.3	86.0	92.0	93.2	86.9	81.8	72.8
85°	29.9	29.1	30.7	33.0	34.5	39.1	48.3	49.8	48.3	42.1	39.8
87.5°	12.7	13.1	12.8	11.9	12.2	12.5	15.2	17.9	15.8	14.3	13.4
90°	11.5	10.3	9.0	7.5	5.8	4.1	2.4	0.7	2.4	4.1	5.8
92.5°	15.0	14.4	13.8	13.5	13.7	13.8	14.0	14.1	14.0	13.8	13.7
95°	25.1	24.0	22.9	25.0	30.1	35.2	40.4	45.5	40.4	35.2	30.1
97.5°	31.5	29.0	26.5	32.4	46.9	61.4	75.8	90.3	75.8	61.4	46.9
100°	34.6	32.0	29.3	38.7	60.0	81.3	102.6	123.9	102.6	81.3	60.0
102.5°	85.3	107.4	129.5	142.8	147.3	151.8	156.4	160.9	156.4	151.8	147.3
105°	127.6	170.1	212.6	231.5	226.8	222.2	217.5	212.8	217.5	222.2	226.8
107.5°	161.7	212.6	263.5	287.1	283.3	279.6	275.8	272.0	275.8	279.6	283.3
110°	212.4	257.4	302.3	323.2	319.9	316.7	313.4	310.1	313.4	316.7	319.9





TEST NUMBER: P331849

CATALOG NUMBER: S122RDIW-S1005D710U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	331.2	342.3	353.4	357.5	354.6	351.8	348.9	346.0	348.9	351.8	354.6
115°	424.2	420.3	416.4	413.1	410.5	407.8	405.2	402.5	405.2	407.8	410.5
117.5°	473.1	470.4	467.7	464.9	461.9	459.0	456.0	453.1	456.0	459.0	461.9
120°	507.5	504.7	501.9	499.4	497.0	494.7	492.4	490.0	492.4	494.7	497.0
122.5°	540.1	537.0	534.0	531.2	528.8	526.3	523.9	521.4	523.9	526.3	528.8
125°	585.6	582.7	579.7	577.2	575.2	573.2	571.2	569.1	571.2	573.2	575.2
127.5°	628.0	625.8	623.6	621.4	619.1	616.9	614.6	612.4	614.6	616.9	619.1
130°	655.3	653.6	651.9	649.8	647.3	644.8	642.3	639.8	642.3	644.8	647.3
132.5°	681.6	679.9	678.2	676.3	674.2	672.1	670.0	667.9	670.0	672.1	674.2
135°	719.0	717.6	716.2	714.2	711.7	709.2	706.7	704.3	706.7	709.2	711.7
137.5°	752.9	751.3	749.7	748.0	746.3	744.6	742.8	741.1	742.8	744.6	746.3
140°	775.0	773.3	771.6	770.1	768.9	767.6	766.4	765.2	766.4	767.6	768.9
142.5°	795.3	793.3	791.3	789.8	788.7	787.6	786.4	785.3	786.4	787.6	788.7
145°	822.9	820.2	817.6	816.3	816.5	816.7	816.8	817.0	816.8	816.7	816.5
147.5°	848.4	845.8	843.2	842.2	842.8	843.4	844.0	844.5	844.0	843.4	842.8
150°	863.8	861.3	858.8	858.1	859.2	860.3	861.4	862.5	861.4	860.3	859.2
152.5°	878.0	875.7	873.3	872.7	873.9	875.2	876.4	877.6	876.4	875.2	873.9
155°	897.9	896.1	894.2	894.0	895.4	896.8	898.2	899.6	898.2	896.8	895.4
157.5°	914.7	913.4	912.1	912.1	913.2	914.4	915.6	916.8	915.6	914.4	913.2
160°	925.0	924.1	923.1	923.1	924.1	925.0	925.9	926.9	925.9	925.0	924.1
162.5°	933.7	932.8	932.0	932.1	933.0	934.0	934.9	935.8	934.9	934.0	933.0
165°	944.8	944.4	943.9	944.1	945.1	946.0	946.9	947.9	946.9	946.0	945.1
167.5°	953.7	953.3	952.9	953.1	954.0	955.0	955.9	956.8	955.9	955.0	954.0
170°	958.5	958.1	957.8	958.1	959.1	960.0	960.9	961.9	960.9	960.0	959.1
172.5°	961.8	961.5	961.2	961.5	962.4	963.4	964.3	965.2	964.3	963.4	962.4
175°	965.5	965.1	964.8	965.2	966.3	967.4	968.5	969.6	968.5	967.4	966.3
177.5°	966.7	966.5	966.4	966.8	967.7	968.5	969.4	970.3	969.4	968.5	967.7
180°	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5



TEST NUMBER: P331849

CATALOG NUMBER: S122RDIW-S1005D710U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2174.2	2169.9	2161.9	2149.6	2142.3	2129.4	2120.8	2125.7	2127.0	2125.7	2124.5
5°	2115.8	2099.7	2077.5	2056.0	2036.1	2014.6	2002.4	1997.0	1986.3	1980.1	1977.1
7.5°	2045.1	2017.4	1986.0	1948.6	1916.8	1883.6	1866.6	1858.1	1836.2	1824.3	1813.8
10°	1992.4	1948.7	1917.3	1868.3	1838.4	1794.7	1764.8	1765.6	1735.7	1718.8	1706.6
12.5°	1934.2	1886.2	1833.9	1789.8	1748.3	1713.2	1677.1	1662.6	1630.9	1614.6	1581.5
15°	1837.6	1781.7	1726.5	1666.7	1624.6	1570.2	1518.1	1454.5	1403.1	1358.7	1346.4
17.5°	1732.2	1662.9	1607.6	1537.4	1465.2	1373.7	1313.3	1276.4	1245.4	1222.0	1204.5
20°	1659.8	1589.3	1530.3	1424.6	1327.2	1265.2	1220.7	1192.4	1160.2	1134.9	1121.1
22.5°	1583.8	1510.2	1429.8	1311.8	1235.9	1186.1	1146.5	1113.9	1092.1	1072.4	1059.8
25°	1475.9	1395.4	1262.9	1181.6	1120.3	1068.2	1040.6	1020.7	997.7	970.9	958.7
27.5°	1361.9	1233.9	1138.7	1078.3	1019.8	985.9	961.1	931.4	910.8	898.7	886.0
30°	1276.7	1148.7	1074.4	1008.5	967.1	929.5	900.4	883.6	863.6	842.9	834.5
32.5°	1181.6	1079.4	1008.2	953.3	911.3	879.3	856.3	829.0	814.6	801.9	784.2
35°	1063.6	986.2	921.1	876.7	836.8	810.8	783.9	767.8	741.8	731.1	724.2
37.5°	963.7	896.6	848.0	801.1	769.5	740.7	724.3	698.7	687.4	672.5	658.0
40°	907.3	841.4	794.7	756.3	721.1	699.6	678.9	658.3	641.4	634.5	616.9
42.5°	849.7	796.0	749.3	707.3	683.7	661.0	634.8	619.6	602.2	591.0	580.1
45°	770.1	722.6	682.8	648.3	622.2	598.5	581.6	556.3	546.4	524.2	515.0
47.5°	700.3	656.1	618.1	585.3	559.9	544.4	519.7	499.9	484.0	470.4	458.6
50°	650.6	613.8	577.0	547.9	524.9	502.7	477.4	467.4	442.9	436.0	429.1
52.5°	605.2	570.3	536.6	508.1	485.1	463.5	441.2	428.2	411.7	404.8	399.7
55°	541.8	508.1	475.9	450.6	427.6	405.4	391.6	375.5	367.8	362.5	356.3
57.5°	478.0	447.7	423.0	397.4	374.3	356.6	340.7	331.0	323.1	316.0	308.7
60°	437.6	408.4	386.2	362.5	338.7	324.1	311.9	300.4	291.2	280.5	277.4
62.5°	394.6	369.2	348.8	325.7	305.0	291.7	280.0	269.1	258.1	242.5	238.2
65°	335.6	315.7	294.3	275.1	256.7	243.7	226.8	214.6	210.0	208.4	207.7
67.5°	282.3	263.5	245.1	225.4	208.7	196.6	188.1	186.2	183.0	182.1	179.9
70°	246.8	229.1	210.7	192.3	176.3	174.0	170.9	167.8	164.0	162.5	160.9
72.5°	214.9	196.6	178.2	163.5	156.6	153.7	150.7	147.6	145.0	143.5	142.5
75°	164.8	147.9	135.6	130.3	126.4	124.1	119.5	117.2	115.7	113.4	112.6
77.5°	118.6	109.1	103.5	100.1	96.1	93.6	91.0	88.7	87.1	86.6	85.4
80°	90.4	85.8	82.0	77.4	75.9	72.8	72.0	69.7	70.5	68.2	68.2
82.5°	70.2	64.4	61.2	59.0	57.5	55.0	54.3	53.2	53.3	51.6	51.6
85°	36.0	34.5	33.0	31.4	31.4	29.1	29.9	29.1	29.1	27.6	26.8
87.5°	13.2	12.8	11.9	12.1	12.4	12.0	12.2	11.7	11.8	12.0	11.5
90°	7.5	9.0	10.3	11.5	12.8	14.0	14.8	15.6	16.3	17.1	17.7
92.5°	13.5	13.8	14.4	15.0	15.6	16.2	16.6	17.1	17.5	17.9	18.2
95°	25.0	22.9	24.0	25.1	26.2	27.3	28.1	28.9	29.6	30.4	30.7
97.5°	32.4	26.5	29.0	31.5	34.0	36.5	37.2	37.8	38.4	39.0	39.4
100°	38.7	29.3	32.0	34.6	37.3	39.9	41.1	42.4	43.6	44.9	45.7
102.5°	142.8	129.5	107.4	85.3	63.1	41.0	42.6	44.3	45.9	47.5	48.5
105°	231.5	212.6	170.1	127.6	85.2	42.7	44.4	46.1	47.8	49.5	50.7
107.5°	287.1	263.5	212.6	161.7	110.7	59.8	58.0	56.3	54.6	52.8	52.3
110°	323.2	302.3	257.4	212.4	167.5	122.5	107.0	91.4	75.8	60.3	52.8



TEST NUMBER: P331849

CATALOG NUMBER: S122RDIW-S1005D710U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	357.5	353.4	342.3	331.2	320.1	309.0	252.3	195.5	138.8	82.0	53.9
115°	413.1	416.4	420.3	424.2	428.0	431.9	359.9	287.9	215.8	143.8	102.2
117.5°	464.9	467.7	470.4	473.1	475.7	478.4	461.0	443.6	426.1	408.7	381.6
120°	499.4	501.9	504.7	507.5	510.3	513.1	515.0	516.9	518.7	520.6	511.0
122.5°	531.2	534.0	537.0	540.1	543.1	546.2	547.3	548.4	549.5	550.7	549.2
125°	577.2	579.7	582.7	585.6	588.6	591.5	592.6	593.7	594.8	595.9	596.7
127.5°	621.4	623.6	625.8	628.0	630.2	632.4	634.0	635.6	637.2	638.8	639.6
130°	649.8	651.9	653.6	655.3	657.0	658.8	660.5	662.2	663.9	665.6	666.4
132.5°	676.3	678.2	679.9	681.6	683.4	685.1	686.5	688.0	689.5	690.9	691.6
135°	714.2	716.2	717.6	719.0	720.4	721.8	723.3	724.9	726.4	728.0	728.6
137.5°	748.0	749.7	751.3	752.9	754.5	756.1	757.6	759.1	760.6	762.2	762.7
140°	770.1	771.6	773.3	775.0	776.7	778.5	779.9	781.3	782.7	784.1	784.4
142.5°	789.8	791.3	793.3	795.3	797.2	799.2	800.5	801.7	803.0	804.3	804.5
145°	816.3	817.6	820.2	822.9	825.5	828.2	829.3	830.3	831.4	832.5	832.7
147.5°	842.2	843.2	845.8	848.4	851.0	853.6	854.5	855.3	856.1	856.9	857.0
150°	858.1	858.8	861.3	863.8	866.3	868.8	869.7	870.6	871.6	872.5	872.6
152.5°	872.7	873.3	875.7	878.0	880.4	882.8	883.7	884.6	885.6	886.5	886.5
155°	894.0	894.2	896.1	897.9	899.8	901.7	902.6	903.5	904.5	905.4	905.2
157.5°	912.1	912.1	913.4	914.7	916.0	917.3	918.4	919.5	920.5	921.6	921.5
160°	923.1	923.1	924.1	925.0	925.9	926.9	927.8	928.7	929.7	930.6	930.5
162.5°	932.1	932.0	932.8	933.7	934.5	935.3	936.3	937.4	938.4	939.5	939.4
165°	944.1	943.9	944.4	944.8	945.3	945.8	946.9	948.0	949.0	950.1	950.1
167.5°	953.1	952.9	953.3	953.7	954.2	954.6	955.7	956.8	957.9	958.9	958.8
170°	958.1	957.8	958.1	958.5	958.8	959.1	960.2	961.3	962.3	963.4	963.3
172.5°	961.5	961.2	961.5	961.8	962.1	962.4	963.5	964.6	965.7	966.8	966.6
175°	965.2	964.8	965.1	965.5	965.8	966.1	967.2	968.3	969.3	970.4	970.2
177.5°	966.8	966.4	966.5	966.7	966.8	966.9	967.8	968.7	969.5	970.4	970.3
180°	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5



TEST NUMBER: P331849

CATALOG NUMBER: S122RDIW-S1005D710U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2117.8	2119.0	2117.2	2118.4	2117.2	2119.0	2117.8	2124.5	2125.7	2127.0	2125.7
5°	1973.2	1964.0	1962.5	1960.2	1962.5	1964.0	1973.2	1977.1	1980.1	1986.3	1997.0
7.5°	1800.7	1799.3	1795.5	1790.1	1795.5	1799.3	1800.7	1813.8	1824.3	1836.2	1858.1
10°	1689.7	1685.9	1685.1	1679.7	1685.1	1685.9	1689.7	1706.6	1718.8	1735.7	1765.6
12.5°	1559.7	1535.1	1532.5	1519.1	1532.5	1535.1	1559.7	1581.5	1614.6	1630.9	1662.6
15°	1328.0	1323.4	1308.1	1298.1	1308.1	1323.4	1328.0	1346.4	1358.7	1403.1	1454.5
17.5°	1195.6	1180.6	1175.8	1173.7	1175.8	1180.6	1195.6	1204.5	1222.0	1245.4	1276.4
20°	1110.4	1096.6	1094.3	1092.8	1094.3	1096.6	1110.4	1121.1	1134.9	1160.2	1192.4
22.5°	1051.5	1037.1	1031.1	1026.5	1031.1	1037.1	1051.5	1059.8	1072.4	1092.1	1113.9
25°	951.0	945.6	942.6	941.0	942.6	945.6	951.0	958.7	970.9	997.7	1020.7
27.5°	872.4	860.6	858.3	854.3	858.3	860.6	872.4	886.0	898.7	910.8	931.4
30°	827.6	823.8	818.4	813.8	818.4	823.8	827.6	834.5	842.9	863.6	883.6
32.5°	774.9	771.7	766.9	764.8	766.9	771.7	774.9	784.2	801.9	814.6	829.0
35°	716.5	705.8	701.2	694.3	701.2	705.8	716.5	724.2	731.1	741.8	767.8
37.5°	654.7	649.1	642.6	644.9	642.6	649.1	654.7	658.0	672.5	687.4	698.7
40°	606.9	603.1	601.6	600.8	601.6	603.1	606.9	616.9	634.5	641.4	658.3
42.5°	568.9	558.3	554.3	554.2	554.3	558.3	568.9	580.1	591.0	602.2	619.6
45°	511.1	501.2	494.3	495.0	494.3	501.2	511.1	515.0	524.2	546.4	556.3
47.5°	452.0	451.7	447.4	448.7	447.4	451.7	452.0	458.6	470.4	484.0	499.9
50°	423.8	419.2	416.1	416.9	416.1	419.2	423.8	429.1	436.0	442.9	467.4
52.5°	396.8	392.8	390.4	393.6	390.4	392.8	396.8	399.7	404.8	411.7	428.2
55°	352.5	347.9	347.1	346.4	347.1	347.9	352.5	356.3	362.5	367.8	375.5
57.5°	303.0	299.9	295.3	293.3	295.3	299.9	303.0	308.7	316.0	323.1	331.0
60°	267.4	261.3	253.6	252.9	253.6	261.3	267.4	277.4	280.5	291.2	300.4
62.5°	234.9	233.7	232.2	232.0	232.2	233.7	234.9	238.2	242.5	258.1	269.1
65°	206.1	205.4	206.1	206.9	206.1	205.4	206.1	207.7	208.4	210.0	214.6
67.5°	179.6	178.2	176.9	177.5	176.9	178.2	179.6	179.9	182.1	183.0	186.2
70°	159.4	158.6	157.9	157.9	157.9	158.6	159.4	160.9	162.5	164.0	167.8
72.5°	139.8	139.6	138.9	138.2	138.9	139.6	139.8	142.5	143.5	145.0	147.6
75°	111.9	110.3	110.3	110.3	110.3	110.3	111.9	112.6	113.4	115.7	117.2
77.5°	85.2	84.4	83.7	83.1	83.7	84.4	85.2	85.4	86.6	87.1	88.7
80°	67.4	66.7	65.9	65.9	65.9	66.7	67.4	68.2	68.2	70.5	69.7
82.5°	51.5	50.7	50.6	50.0	50.6	50.7	51.5	51.6	51.6	53.3	53.2
85°	27.6	28.4	27.6	29.1	27.6	28.4	27.6	26.8	27.6	29.1	29.1
87.5°	11.6	11.0	11.7	11.1	11.7	11.0	11.6	11.5	12.0	11.8	11.7
90°	18.0	18.3	18.6	18.9	18.6	18.3	18.0	17.7	17.1	16.3	15.6
92.5°	18.3	18.5	18.7	18.9	18.7	18.5	18.3	18.2	17.9	17.5	17.1
95°	30.6	30.4	30.3	30.1	30.3	30.4	30.6	30.7	30.4	29.6	28.9
97.5°	39.6	39.8	40.0	40.2	40.0	39.8	39.6	39.4	39.0	38.4	37.8
100°	46.0	46.3	46.6	46.9	46.6	46.3	46.0	45.7	44.9	43.6	42.4
102.5°	49.0	49.4	49.8	50.3	49.8	49.4	49.0	48.5	47.5	45.9	44.3
105°	51.3	52.0	52.6	53.2	52.6	52.0	51.3	50.7	49.5	47.8	46.1
107.5°	52.9	53.5	54.1	54.7	54.1	53.5	52.9	52.3	52.8	54.6	56.3
110°	53.4	54.1	54.7	55.3	54.7	54.1	53.4	52.8	60.3	75.8	91.4



TEST NUMBER: P331849

CATALOG NUMBER: S122RDIW-S1005D710U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	54.4	54.9	55.4	55.9	55.4	54.9	54.4	53.9	82.0	138.8	195.5
115°	91.0	79.8	68.6	57.4	68.6	79.8	91.0	102.2	143.8	215.8	287.9
117.5°	344.8	308.0	271.2	234.4	271.2	308.0	344.8	381.6	408.7	426.1	443.6
120°	490.0	469.0	448.0	427.0	448.0	469.0	490.0	511.0	520.6	518.7	516.9
122.5°	545.1	541.0	537.0	532.9	537.0	541.0	545.1	549.2	550.7	549.5	548.4
125°	597.1	597.6	598.1	598.5	598.1	597.6	597.1	596.7	595.9	594.8	593.7
127.5°	639.7	639.8	639.9	640.0	639.9	639.8	639.7	639.6	638.8	637.2	635.6
130°	666.2	666.1	665.9	665.8	665.9	666.1	666.2	666.4	665.6	663.9	662.2
132.5°	691.4	691.3	691.1	691.0	691.1	691.3	691.4	691.6	690.9	689.5	688.0
135°	728.3	728.0	727.7	727.4	727.7	728.0	728.3	728.6	728.0	726.4	724.9
137.5°	762.1	761.6	761.1	760.5	761.1	761.6	762.1	762.7	762.2	760.6	759.1
140°	783.6	782.8	782.0	781.3	782.0	782.8	783.6	784.4	784.1	782.7	781.3
142.5°	803.8	803.0	802.2	801.4	802.2	803.0	803.8	804.5	804.3	803.0	801.7
145°	831.9	831.1	830.3	829.6	830.3	831.1	831.9	832.7	832.5	831.4	830.3
147.5°	856.3	855.7	855.0	854.3	855.0	855.7	856.3	857.0	856.9	856.1	855.3
150°	871.8	871.0	870.2	869.5	870.2	871.0	871.8	872.6	872.5	871.6	870.6
152.5°	885.4	884.4	883.4	882.3	883.4	884.4	885.4	886.5	886.5	885.6	884.6
155°	904.0	902.8	901.5	900.3	901.5	902.8	904.0	905.2	905.4	904.5	903.5
157.5°	920.3	919.1	917.9	916.6	917.9	919.1	920.3	921.5	921.6	920.5	919.5
160°	929.4	928.3	927.3	926.2	927.3	928.3	929.4	930.5	930.6	929.7	928.7
162.5°	938.0	936.7	935.3	934.0	935.3	936.7	938.0	939.4	939.5	938.4	937.4
165°	949.0	948.0	946.9	945.8	946.9	948.0	949.0	950.1	950.1	949.0	948.0
167.5°	957.4	956.0	954.6	953.2	954.6	956.0	957.4	958.8	958.9	957.9	956.8
170°	961.9	960.5	959.1	957.7	959.1	960.5	961.9	963.3	963.4	962.3	961.3
172.5°	965.2	963.8	962.4	961.0	962.4	963.8	965.2	966.6	966.8	965.7	964.6
175°	968.6	967.1	965.5	964.0	965.5	967.1	968.6	970.2	970.4	969.3	968.3
177.5°	969.2	968.0	966.9	965.8	966.9	968.0	969.2	970.3	970.4	969.5	968.7
180°	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5



TEST NUMBER: P331849

CATALOG NUMBER: S122RDIW-S1005D710U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2120.8	2129.4	2142.3	2149.6	2161.9	2169.9	2174.2	2182.1	2186.4	2201.8	2217.7
5°	2002.4	2014.6	2036.1	2056.0	2077.5	2099.7	2115.8	2134.2	2151.0	2180.1	2210.8
7.5°	1866.6	1883.6	1916.8	1948.6	1986.0	2017.4	2045.1	2076.5	2104.6	2146.3	2189.8
10°	1764.8	1794.7	1838.4	1868.3	1917.3	1948.7	1992.4	2026.9	2066.0	2121.1	2170.2
12.5°	1677.1	1713.2	1748.3	1789.8	1833.9	1886.2	1934.2	1978.5	2024.9	2081.9	2139.5
15°	1518.1	1570.2	1624.6	1666.7	1726.5	1781.7	1837.6	1897.4	1954.1	2022.3	2097.4
17.5°	1313.3	1373.7	1465.2	1537.4	1607.6	1662.9	1732.2	1804.5	1871.3	1953.6	2037.2
20°	1220.7	1265.2	1327.2	1424.6	1530.3	1589.3	1659.8	1739.5	1816.1	1905.8	1995.5
22.5°	1146.5	1186.1	1235.9	1311.8	1429.8	1510.2	1583.8	1664.7	1753.6	1845.1	1944.6
25°	1040.6	1068.2	1120.3	1181.6	1262.9	1395.4	1475.9	1557.1	1653.7	1751.8	1865.2
27.5°	961.1	985.9	1019.8	1078.3	1138.7	1233.9	1361.9	1450.5	1546.7	1657.1	1774.8
30°	900.4	929.5	967.1	1008.5	1074.4	1148.7	1276.7	1379.4	1474.4	1587.8	1713.5
32.5°	856.3	879.3	911.3	953.3	1008.2	1079.4	1181.6	1306.4	1399.0	1518.5	1649.7
35°	783.9	810.8	836.8	876.7	921.1	986.2	1063.6	1197.0	1288.9	1406.9	1538.7
37.5°	724.3	740.7	769.5	801.1	848.0	896.6	963.7	1083.3	1182.7	1298.6	1433.5
40°	678.9	699.6	721.1	756.3	794.7	841.4	907.3	996.2	1110.4	1223.8	1355.6
42.5°	634.8	661.0	683.7	707.3	749.3	796.0	849.7	925.1	1041.7	1149.0	1277.1
45°	581.6	598.5	622.2	648.3	682.8	722.6	770.1	836.0	947.9	1040.6	1161.0
47.5°	519.7	544.4	559.9	585.3	618.1	656.1	700.3	757.3	847.8	934.7	1046.3
50°	477.4	502.7	524.9	547.9	577.0	613.8	650.6	705.8	778.6	869.8	974.0
52.5°	441.2	463.5	485.1	508.1	536.6	570.3	605.2	653.7	716.0	799.9	901.0
55°	391.6	405.4	427.6	450.6	475.9	508.1	541.8	582.4	636.0	706.5	788.5
57.5°	340.7	356.6	374.3	397.4	423.0	447.7	478.0	514.8	557.1	620.9	691.1
60°	311.9	324.1	338.7	362.5	386.2	408.4	437.6	468.2	508.1	563.2	623.0
62.5°	280.0	291.7	305.0	325.7	348.8	369.2	394.6	427.1	460.9	511.1	563.5
65°	226.8	243.7	256.7	275.1	294.3	315.7	335.6	361.7	391.6	431.4	478.2
67.5°	188.1	196.6	208.7	225.4	245.1	263.5	282.3	302.7	328.6	359.4	396.5
70°	170.9	174.0	176.3	192.3	210.7	229.1	246.8	265.9	288.1	313.4	345.6
72.5°	150.7	153.7	156.6	163.5	178.2	196.6	214.9	229.1	250.1	271.1	297.2
75°	119.5	124.1	126.4	130.3	135.6	147.9	164.8	178.5	190.8	206.9	227.6
77.5°	91.0	93.6	96.1	100.1	103.5	109.1	118.6	131.0	142.5	151.9	166.1
80°	72.0	72.8	75.9	77.4	82.0	85.8	90.4	100.4	111.9	115.7	125.7
82.5°	54.3	55.0	57.5	59.0	61.2	64.4	70.2	72.8	81.8	86.9	93.2
85°	29.9	29.1	31.4	31.4	33.0	34.5	36.0	39.8	42.1	48.3	49.8
87.5°	12.2	12.0	12.4	12.1	11.9	12.8	13.2	13.4	14.3	15.8	17.9
90°	14.8	14.0	12.8	11.5	10.3	9.0	7.5	5.8	4.1	2.4	0.7
92.5°	16.6	16.2	15.6	15.0	14.4	13.8	13.5	13.7	13.8	14.0	14.1
95°	28.1	27.3	26.2	25.1	24.0	22.9	25.0	30.1	35.2	40.4	45.5
97.5°	37.2	36.5	34.0	31.5	29.0	26.5	32.4	46.9	61.4	75.8	90.3
100°	41.1	39.9	37.3	34.6	32.0	29.3	38.7	60.0	81.3	102.6	123.9
102.5°	42.6	41.0	63.1	85.3	107.4	129.5	142.8	147.3	151.8	156.4	160.9
105°	44.4	42.7	85.2	127.6	170.1	212.6	231.5	226.8	222.2	217.5	212.8
107.5°	58.0	59.8	110.7	161.7	212.6	263.5	287.1	283.3	279.6	275.8	272.0
110°	107.0	122.5	167.5	212.4	257.4	302.3	323.2	319.9	316.7	313.4	310.1



TEST NUMBER: P331849

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	252.3	309.0	320.1	331.2	342.3	353.4	357.5	354.6	351.8	348.9	346.0
115°	359.9	431.9	428.0	424.2	420.3	416.4	413.1	410.5	407.8	405.2	402.5
117.5°	461.0	478.4	475.7	473.1	470.4	467.7	464.9	461.9	459.0	456.0	453.1
120°	515.0	513.1	510.3	507.5	504.7	501.9	499.4	497.0	494.7	492.4	490.0
122.5°	547.3	546.2	543.1	540.1	537.0	534.0	531.2	528.8	526.3	523.9	521.4
125°	592.6	591.5	588.6	585.6	582.7	579.7	577.2	575.2	573.2	571.2	569.1
127.5°	634.0	632.4	630.2	628.0	625.8	623.6	621.4	619.1	616.9	614.6	612.4
130°	660.5	658.8	657.0	655.3	653.6	651.9	649.8	647.3	644.8	642.3	639.8
132.5°	686.5	685.1	683.4	681.6	679.9	678.2	676.3	674.2	672.1	670.0	667.9
135°	723.3	721.8	720.4	719.0	717.6	716.2	714.2	711.7	709.2	706.7	704.3
137.5°	757.6	756.1	754.5	752.9	751.3	749.7	748.0	746.3	744.6	742.8	741.1
140°	779.9	778.5	776.7	775.0	773.3	771.6	770.1	768.9	767.6	766.4	765.2
142.5°	800.5	799.2	797.2	795.3	793.3	791.3	789.8	788.7	787.6	786.4	785.3
145°	829.3	828.2	825.5	822.9	820.2	817.6	816.3	816.5	816.7	816.8	817.0
147.5°	854.5	853.6	851.0	848.4	845.8	843.2	842.2	842.8	843.4	844.0	844.5
150°	869.7	868.8	866.3	863.8	861.3	858.8	858.1	859.2	860.3	861.4	862.5
152.5°	883.7	882.8	880.4	878.0	875.7	873.3	872.7	873.9	875.2	876.4	877.6
155°	902.6	901.7	899.8	897.9	896.1	894.2	894.0	895.4	896.8	898.2	899.6
157.5°	918.4	917.3	916.0	914.7	913.4	912.1	912.1	913.2	914.4	915.6	916.8
160°	927.8	926.9	925.9	925.0	924.1	923.1	923.1	924.1	925.0	925.9	926.9
162.5°	936.3	935.3	934.5	933.7	932.8	932.0	932.1	933.0	934.0	934.9	935.8
165°	946.9	945.8	945.3	944.8	944.4	943.9	944.1	945.1	946.0	946.9	947.9
167.5°	955.7	954.6	954.2	953.7	953.3	952.9	953.1	954.0	955.0	955.9	956.8
170°	960.2	959.1	958.8	958.5	958.1	957.8	958.1	959.1	960.0	960.9	961.9
172.5°	963.5	962.4	962.1	961.8	961.5	961.2	961.5	962.4	963.4	964.3	965.2
175°	967.2	966.1	965.8	965.5	965.1	964.8	965.2	966.3	967.4	968.5	969.6
177.5°	967.8	966.9	966.8	966.7	966.5	966.4	966.8	967.7	968.5	969.4	970.3
180°	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5



TEST NUMBER: P331849

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2218.3	2220.1	2232.4	2237.9	2249.0	2253.2	2258.2	2256.9	2256.9	2259.4	2276.5
5°	2223.1	2238.4	2261.4	2283.6	2305.1	2323.4	2335.7	2348.0	2352.6	2374.8	2394.7
7.5°	2215.1	2243.3	2281.3	2315.2	2355.8	2387.5	2413.9	2437.6	2453.9	2486.2	2519.3
10°	2204.7	2244.5	2287.4	2331.1	2387.0	2429.2	2472.1	2505.1	2515.8	2564.1	2591.7
12.5°	2183.8	2237.2	2291.7	2348.3	2403.0	2461.1	2508.3	2541.2	2578.9	2622.3	2673.2
15°	2152.6	2213.9	2285.1	2357.9	2436.1	2506.6	2557.2	2614.6	2656.0	2703.5	2748.0
17.5°	2107.7	2186.6	2277.2	2361.5	2451.9	2527.6	2597.2	2652.3	2681.5	2708.6	2715.2
20°	2072.1	2157.2	2263.7	2363.3	2453.7	2541.1	2610.0	2656.0	2663.7	2664.4	2623.8
22.5°	2033.5	2129.6	2241.0	2343.1	2451.3	2548.4	2602.1	2621.7	2591.3	2539.4	2460.8
25°	1962.5	2073.6	2203.1	2319.6	2437.6	2529.6	2548.0	2513.5	2407.0	2295.1	2153.3
27.5°	1885.6	2010.5	2149.3	2278.8	2404.5	2461.5	2421.8	2297.5	2105.7	1938.9	1736.8
30°	1829.2	1969.4	2105.8	2250.6	2367.1	2391.6	2300.5	2117.3	1893.5	1642.2	1440.7
32.5°	1764.8	1911.8	2061.7	2211.4	2308.9	2285.0	2134.3	1908.9	1646.5	1399.4	1208.9
35°	1672.8	1824.6	1986.3	2136.5	2198.5	2095.1	1869.8	1576.3	1308.1	1077.4	946.4
37.5°	1566.6	1731.9	1900.0	2037.9	2033.5	1861.1	1554.2	1251.2	1025.8	889.4	796.0
40°	1491.2	1658.3	1839.9	1956.4	1906.6	1682.0	1349.5	1063.6	898.9	790.1	721.9
42.5°	1418.9	1586.6	1767.0	1859.5	1772.9	1496.9	1165.6	941.6	805.7	720.8	665.5
45°	1295.8	1472.8	1639.9	1691.2	1536.4	1232.2	942.6	780.1	689.7	626.8	588.5
47.5°	1175.5	1349.6	1502.1	1503.0	1293.7	999.3	795.1	675.1	597.9	549.3	521.4
50°	1101.9	1267.5	1395.4	1375.5	1138.0	888.9	711.1	607.7	543.3	505.8	476.6
52.5°	1019.2	1179.8	1290.6	1233.9	1006.2	782.2	635.7	548.8	495.5	462.8	436.8
55°	898.9	1041.4	1119.6	1033.7	820.7	650.6	537.2	469.0	429.1	401.5	379.3
57.5°	780.7	898.3	947.5	847.5	676.0	539.5	454.4	403.2	363.7	343.9	332.4
60°	706.5	806.9	841.4	731.1	587.8	472.0	402.3	354.8	325.7	312.7	301.2
62.5°	633.6	715.6	729.8	628.7	512.4	413.2	353.3	313.1	293.8	281.4	270.5
65°	525.7	584.7	577.8	496.6	405.4	328.0	284.3	259.8	245.2	227.6	208.4
67.5°	432.8	468.8	447.1	386.2	309.4	254.9	226.4	207.8	189.7	173.0	168.6
70°	374.0	394.6	371.7	315.7	253.6	213.8	190.8	168.6	157.9	154.0	147.1
72.5°	317.6	324.8	299.9	252.0	206.4	177.0	154.6	142.2	136.4	133.2	128.7
75°	238.3	233.0	211.5	174.0	143.3	123.4	116.5	111.9	108.0	105.0	102.7
77.5°	167.4	159.5	140.4	115.9	99.8	90.3	86.1	83.7	81.8	80.3	78.0
80°	125.7	120.3	101.2	82.8	75.9	71.3	69.0	65.9	65.9	64.4	62.1
82.5°	92.0	86.0	69.3	60.7	56.9	54.1	52.4	50.6	50.0	50.3	48.6
85°	48.3	39.1	34.5	33.0	30.7	29.1	29.9	28.4	28.4	28.4	27.6
87.5°	15.2	12.5	12.2	11.9	12.8	13.1	12.7	13.0	13.8	13.4	14.1
90°	2.4	4.1	5.8	7.5	9.0	10.3	11.5	12.8	14.0	14.8	15.6
92.5°	14.0	13.8	13.7	13.5	13.8	14.4	15.0	15.6	16.2	16.6	17.1
95°	40.4	35.2	30.1	25.0	22.9	24.0	25.1	26.2	27.3	28.1	28.9
97.5°	75.8	61.4	46.9	32.4	26.5	29.0	31.5	34.0	36.5	37.2	37.8
100°	102.6	81.3	60.0	38.7	29.3	32.0	34.6	37.3	39.9	41.1	42.4
102.5°	156.4	151.8	147.3	142.8	129.5	107.4	85.3	63.1	41.0	42.6	44.3
105°	217.5	222.2	226.8	231.5	212.6	170.1	127.6	85.2	42.7	44.4	46.1
107.5°	275.8	279.6	283.3	287.1	263.5	212.6	161.7	110.7	59.8	58.0	56.3
110°	313.4	316.7	319.9	323.2	302.3	257.4	212.4	167.5	122.5	107.0	91.4





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	348.9	351.8	354.6	357.5	353.4	342.3	331.2	320.1	309.0	252.3	195.5
115°	405.2	407.8	410.5	413.1	416.4	420.3	424.2	428.0	431.9	359.9	287.9
117.5°	456.0	459.0	461.9	464.9	467.7	470.4	473.1	475.7	478.4	461.0	443.6
120°	492.4	494.7	497.0	499.4	501.9	504.7	507.5	510.3	513.1	515.0	516.9
122.5°	523.9	526.3	528.8	531.2	534.0	537.0	540.1	543.1	546.2	547.3	548.4
125°	571.2	573.2	575.2	577.2	579.7	582.7	585.6	588.6	591.5	592.6	593.7
127.5°	614.6	616.9	619.1	621.4	623.6	625.8	628.0	630.2	632.4	634.0	635.6
130°	642.3	644.8	647.3	649.8	651.9	653.6	655.3	657.0	658.8	660.5	662.2
132.5°	670.0	672.1	674.2	676.3	678.2	679.9	681.6	683.4	685.1	686.5	688.0
135°	706.7	709.2	711.7	714.2	716.2	717.6	719.0	720.4	721.8	723.3	724.9
137.5°	742.8	744.6	746.3	748.0	749.7	751.3	752.9	754.5	756.1	757.6	759.1
140°	766.4	767.6	768.9	770.1	771.6	773.3	775.0	776.7	778.5	779.9	781.3
142.5°	786.4	787.6	788.7	789.8	791.3	793.3	795.3	797.2	799.2	800.5	801.7
145°	816.8	816.7	816.5	816.3	817.6	820.2	822.9	825.5	828.2	829.3	830.3
147.5°	844.0	843.4	842.8	842.2	843.2	845.8	848.4	851.0	853.6	854.5	855.3
150°	861.4	860.3	859.2	858.1	858.8	861.3	863.8	866.3	868.8	869.7	870.6
152.5°	876.4	875.2	873.9	872.7	873.3	875.7	878.0	880.4	882.8	883.7	884.6
155°	898.2	896.8	895.4	894.0	894.2	896.1	897.9	899.8	901.7	902.6	903.5
157.5°	915.6	914.4	913.2	912.1	912.1	913.4	914.7	916.0	917.3	918.4	919.5
160°	925.9	925.0	924.1	923.1	923.1	924.1	925.0	925.9	926.9	927.8	928.7
162.5°	934.9	934.0	933.0	932.1	932.0	932.8	933.7	934.5	935.3	936.3	937.4
165°	946.9	946.0	945.1	944.1	943.9	944.4	944.8	945.3	945.8	946.9	948.0
167.5°	955.9	955.0	954.0	953.1	952.9	953.3	953.7	954.2	954.6	955.7	956.8
170°	960.9	960.0	959.1	958.1	957.8	958.1	958.5	958.8	959.1	960.2	961.3
172.5°	964.3	963.4	962.4	961.5	961.2	961.5	961.8	962.1	962.4	963.5	964.6
175°	968.5	967.4	966.3	965.2	964.8	965.1	965.5	965.8	966.1	967.2	968.3
177.5°	969.4	968.5	967.7	966.8	966.4	966.5	966.7	966.8	966.9	967.8	968.7
180°	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2282.7	2290.6	2294.3	2294.3	2298.6	2296.8	2294.9
5°	2413.9	2428.4	2431.5	2445.3	2455.2	2452.2	2453.7
7.5°	2544.3	2567.7	2590.9	2601.5	2603.1	2609.3	2611.6
10°	2624.6	2643.8	2679.8	2674.4	2701.2	2716.6	2691.3
12.5°	2701.8	2727.7	2752.7	2759.6	2774.8	2779.7	2769.7
15°	2771.7	2785.5	2787.1	2783.2	2787.8	2784.0	2769.4
17.5°	2706.4	2684.1	2638.7	2617.2	2600.2	2575.1	2565.0
20°	2598.5	2532.6	2456.0	2425.4	2389.3	2318.8	2335.7
22.5°	2365.6	2290.5	2213.9	2124.4	2081.6	2014.8	2010.8
25°	2003.1	1873.6	1731.1	1631.5	1573.2	1506.6	1477.4
27.5°	1557.4	1394.4	1277.6	1218.4	1164.6	1111.8	1109.6
30°	1264.4	1141.8	1051.4	1000.8	967.8	945.6	950.2
32.5°	1065.8	981.8	920.8	878.8	854.4	837.7	837.4
35°	871.3	813.8	774.7	757.1	739.5	727.2	728.0
37.5°	745.6	711.1	689.4	669.9	658.9	652.9	649.5
40°	681.2	652.9	636.0	624.5	615.3	606.9	605.4
42.5°	630.4	606.9	590.1	581.0	572.4	566.5	564.9
45°	559.4	540.2	524.9	515.0	511.1	505.8	505.8
47.5°	497.6	478.8	466.8	460.6	454.0	450.4	450.3
50°	456.0	441.4	430.7	426.8	421.5	419.2	418.4
52.5°	418.6	407.7	400.0	397.4	395.1	392.2	392.7
55°	367.8	361.7	358.6	356.3	352.5	347.9	351.0
57.5°	325.1	319.9	311.6	304.4	300.9	297.6	298.9
60°	295.0	284.3	273.6	265.1	262.8	255.9	255.9
62.5°	257.0	242.0	228.8	224.1	221.8	218.6	217.9
65°	197.7	191.6	188.5	185.4	183.9	183.9	182.4
67.5°	163.8	161.4	158.0	157.2	155.7	155.3	154.8
70°	144.8	141.8	140.2	139.5	137.9	138.7	136.4
72.5°	126.4	124.0	123.7	121.7	120.8	120.9	119.2
75°	99.6	99.6	98.9	98.1	96.6	95.8	96.6
77.5°	76.6	76.8	75.4	75.3	75.1	75.3	74.5
80°	61.3	62.1	61.3	60.5	59.8	60.5	59.8
82.5°	48.4	47.4	47.2	47.1	46.9	46.4	46.3
85°	27.6	28.4	27.6	26.8	26.8	26.8	27.6
87.5°	13.7	13.8	14.0	14.0	14.1	14.1	13.6
90°	16.3	17.1	17.7	18.0	18.3	18.6	18.9
92.5°	17.5	17.9	18.2	18.3	18.5	18.7	18.9
95°	29.6	30.4	30.7	30.6	30.4	30.3	30.1
97.5°	38.4	39.0	39.4	39.6	39.8	40.0	40.2
100°	43.6	44.9	45.7	46.0	46.3	46.6	46.9
102.5°	45.9	47.5	48.5	49.0	49.4	49.8	50.3
105°	47.8	49.5	50.7	51.3	52.0	52.6	53.2
107.5°	54.6	52.8	52.3	52.9	53.5	54.1	54.7
110°	75.8	60.3	52.8	53.4	54.1	54.7	55.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	138.8	82.0	53.9	54.4	54.9	55.4	55.9
115°	215.8	143.8	102.2	91.0	79.8	68.6	57.4
117.5°	426.1	408.7	381.6	344.8	308.0	271.2	234.4
120°	518.7	520.6	511.0	490.0	469.0	448.0	427.0
122.5°	549.5	550.7	549.2	545.1	541.0	537.0	532.9
125°	594.8	595.9	596.7	597.1	597.6	598.1	598.5
127.5°	637.2	638.8	639.6	639.7	639.8	639.9	640.0
130°	663.9	665.6	666.4	666.2	666.1	665.9	665.8
132.5°	689.5	690.9	691.6	691.4	691.3	691.1	691.0
135°	726.4	728.0	728.6	728.3	728.0	727.7	727.4
137.5°	760.6	762.2	762.7	762.1	761.6	761.1	760.5
140°	782.7	784.1	784.4	783.6	782.8	782.0	781.3
142.5°	803.0	804.3	804.5	803.8	803.0	802.2	801.4
145°	831.4	832.5	832.7	831.9	831.1	830.3	829.6
147.5°	856.1	856.9	857.0	856.3	855.7	855.0	854.3
150°	871.6	872.5	872.6	871.8	871.0	870.2	869.5
152.5°	885.6	886.5	886.5	885.4	884.4	883.4	882.3
155°	904.5	905.4	905.2	904.0	902.8	901.5	900.3
157.5°	920.5	921.6	921.5	920.3	919.1	917.9	916.6
160°	929.7	930.6	930.5	929.4	928.3	927.3	926.2
162.5°	938.4	939.5	939.4	938.0	936.7	935.3	934.0
165°	949.0	950.1	950.1	949.0	948.0	946.9	945.8
167.5°	957.9	958.9	958.8	957.4	956.0	954.6	953.2
170°	962.3	963.4	963.3	961.9	960.5	959.1	957.7
172.5°	965.7	966.8	966.6	965.2	963.8	962.4	961.0
175°	969.3	970.4	970.2	968.6	967.1	965.5	964.0
177.5°	969.5	970.4	970.3	969.2	968.0	966.9	965.8
180°	967.5	967.5	967.5	967.5	967.5	967.5	967.5

(END OF REPORT)