

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: P332475

Luminaire Tested: **S123RDIW-S1165D755U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332475
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S1165D755U835-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 755 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7192.1 lumens
Efficiency: N/A
Efficacy: 120.3 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

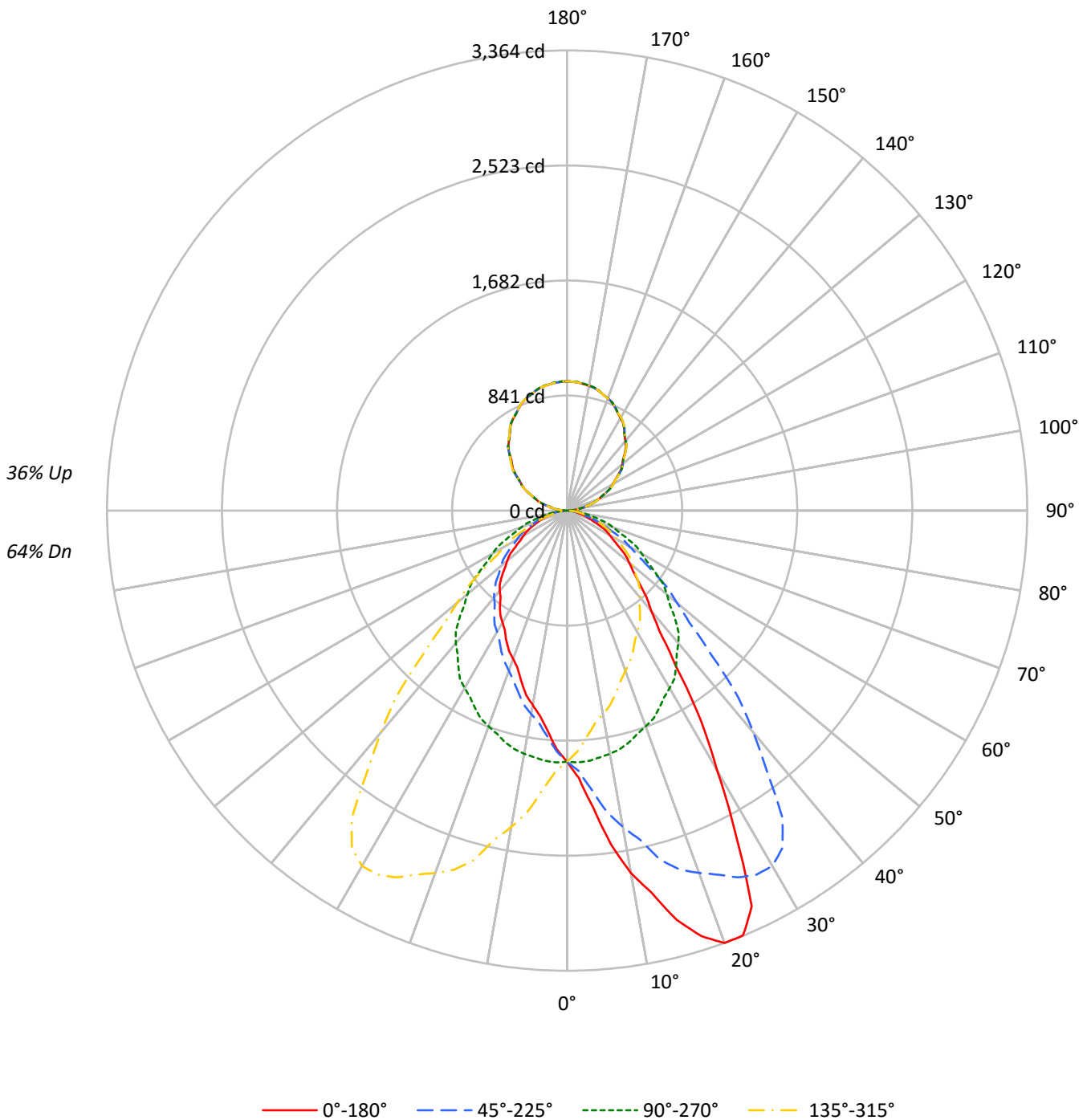
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	110	110	110	110	104	104	104	104	91	91	91	79	79	79	69	69	69	64
1	102	97	94	90	95	92	88	86	81	78	76	71	69	68	62	61	59	55
2	93	86	80	75	87	81	76	71	72	68	64	63	60	58	55	53	51	47
3	85	76	69	64	80	72	66	61	64	59	55	57	53	50	50	47	44	41
4	79	68	60	54	74	64	57	52	57	52	48	51	47	43	45	42	39	36
5	72	61	53	47	68	58	51	45	52	46	42	46	42	38	41	37	34	32
6	67	55	47	41	63	52	45	40	47	41	37	42	37	34	37	34	31	28
7	62	50	42	37	58	48	40	35	43	37	33	38	34	30	34	30	27	25
8	58	46	38	33	54	43	36	32	39	33	29	35	30	27	32	28	25	23
9	54	42	34	29	51	40	33	28	36	30	26	33	28	24	29	25	23	21
10	51	39	31	27	48	37	30	26	33	28	24	30	26	22	27	23	21	19

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	2.5
10°-20°	564.1	7.8
20°-30°	886.2	12.3
30°-40°	924.6	12.9
40°-50°	791.2	11.0
50°-60°	603.1	8.4
60°-70°	386.5	5.4
70°-80°	186.0	2.6
80°-90°	52.0	0.7
90°-100°	61.6	0.9
100°-110°	184.2	2.6
110°-120°	313.4	4.4
120°-130°	412.2	5.7
130°-140°	463.3	6.4
140°-150°	455.4	6.3
150°-160°	383.4	5.3
160°-170°	255.2	3.5
170°-180°	89.4	1.2
0°-30°	1630.8	22.7
0°-40°	2555.4	35.5
0°-60°	3949.7	54.9
0°-90°	4574.2	63.6
90°-120°	559.2	7.8
90°-150°	1890.0	26.3
90°-180°	2618.0	36.4
0°-180°	7192.1	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°	22	1	22	1	22	12
95°	58	44	58	44	58	59
105°	177	167	177	167	177	187
115°	316	316	316	316	316	313
125°	456	462	456	462	456	408
135°	598	599	598	599	598	460
145°	727	727	727	727	727	454
155°	831	832	831	832	831	382
165°	903	906	903	906	903	255
175°	939	943	939	943	939	89
180°	945	945	945	945	945	



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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°	10.7	11.9	10.6	11.2	11.1	11.6	11.5	11.4	12.5	11.7	11.9
90°	22.3	21.9	21.6	21.3	20.9	20.5	19.8	19.1	18.5	17.8	15.7
92.5°	30.0	30.2	30.4	30.6	30.8	30.6	30.1	29.6	29.0	28.5	27.3
95°	57.9	57.9	57.9	57.9	57.9	57.6	56.9	56.2	55.6	54.9	53.6
97.5°	89.1	89.1	89.2	89.3	89.3	89.0	88.2	87.5	86.7	86.0	85.0
100°	112.8	112.5	112.2	111.8	111.5	111.1	110.6	110.1	109.6	109.1	108.3
102.5°	137.2	137.2	137.3	137.4	137.4	137.2	136.7	136.2	135.7	135.2	134.1
105°	176.7	176.3	176.0	175.7	175.3	175.2	175.2	175.2	175.2	175.2	173.7
107.5°	217.8	218.0	218.2	218.4	218.6	218.4	217.9	217.3	216.8	216.3	215.7
110°	245.7	246.0	246.3	246.7	247.0	246.8	246.2	245.5	244.9	244.2	243.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	275.4	275.4	275.5	275.6	275.6	275.3	274.5	273.7	272.9	272.1	272.0
115°	316.2	316.4	316.5	316.7	316.9	316.9	316.7	316.5	316.4	316.2	316.5
117.5°	357.6	358.1	358.5	359.0	359.5	359.7	359.7	359.8	359.8	359.8	360.3
120°	386.7	387.0	387.4	387.7	388.0	388.3	388.4	388.6	388.8	388.9	389.8
122.5°	414.6	415.1	415.5	416.0	416.5	416.9	417.3	417.8	418.2	418.6	419.1
125°	456.5	457.1	457.8	458.5	459.1	459.8	460.4	461.1	461.8	462.4	462.7
127.5°	498.2	499.0	499.7	500.5	501.2	502.1	503.0	503.9	504.8	505.8	506.1
130°	525.5	526.7	527.8	529.0	530.1	531.0	531.7	532.4	533.0	533.7	534.2
132.5°	554.0	554.9	555.8	556.7	557.6	558.4	559.2	560.0	560.8	561.6	561.9
135°	598.2	598.6	598.9	599.2	599.6	600.1	600.7	601.4	602.0	602.7	602.9
137.5°	637.3	637.9	638.5	639.2	639.8	640.5	641.1	641.8	642.5	643.2	642.8
140°	662.8	664.0	665.1	666.3	667.4	668.1	668.3	668.4	668.6	668.8	668.6
142.5°	688.9	689.8	690.7	691.6	692.5	693.0	693.2	693.4	693.5	693.7	693.4
145°	726.7	727.3	728.0	728.6	729.3	729.7	729.9	730.0	730.2	730.4	729.9
147.5°	760.2	761.2	762.2	763.2	764.2	764.7	764.7	764.7	764.7	764.7	764.2
150°	781.6	782.6	783.6	784.5	785.5	786.0	786.0	786.0	786.0	786.0	785.7
152.5°	802.4	803.2	804.1	804.9	805.8	806.1	805.8	805.6	805.3	805.0	804.8
155°	830.6	831.7	832.9	834.0	835.2	835.4	834.8	834.1	833.5	832.8	832.6
157.5°	856.2	857.2	858.1	859.0	859.9	860.1	859.4	858.7	858.0	857.3	857.2
160°	872.9	873.5	874.2	874.9	875.5	875.4	874.6	873.8	873.0	872.1	872.1
162.5°	885.3	886.4	887.5	888.5	889.6	889.7	888.9	888.0	887.2	886.4	886.3
165°	903.3	904.5	905.6	906.8	907.9	908.0	907.0	906.0	905.0	904.0	904.0
167.5°	918.6	919.6	920.6	921.7	922.7	922.7	921.7	920.6	919.6	918.6	918.5
170°	926.3	927.5	928.6	929.8	930.9	930.9	929.8	928.6	927.5	926.3	926.3
172.5°	932.3	933.4	934.6	935.7	936.9	936.9	935.9	934.9	933.9	932.8	932.8
175°	938.9	940.1	941.2	942.4	943.6	943.6	942.6	941.7	940.7	939.7	939.7
177.5°	942.5	943.4	944.3	945.3	946.2	946.3	945.5	944.7	943.9	943.1	943.1
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9



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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°	12.8	11.7	12.5	12.2	13.7	14.0	17.5	20.3	21.2	19.0	19.4
90°	13.5	11.4	9.2	7.3	5.7	4.0	2.4	0.7	2.4	4.0	5.7
92.5°	26.1	24.8	23.6	22.4	21.3	20.2	19.1	18.0	19.1	20.2	21.3
95°	52.3	51.0	49.6	48.4	47.3	46.1	44.9	43.8	44.9	46.1	47.3
97.5°	84.0	83.1	82.1	81.2	80.4	79.5	78.6	77.8	78.6	79.5	80.4
100°	107.5	106.6	105.8	104.9	103.9	102.9	101.9	100.9	101.9	102.9	103.9
102.5°	133.1	132.0	130.9	130.0	129.4	128.9	128.3	127.7	128.3	128.9	129.4
105°	172.2	170.7	169.2	168.3	168.0	167.7	167.3	167.0	167.3	167.7	168.0
107.5°	215.1	214.5	213.9	213.5	213.3	213.1	212.9	212.7	212.9	213.1	213.3
110°	243.5	243.2	242.9	242.5	242.2	241.9	241.6	241.2	241.6	241.9	242.2



TEST NUMBER: P332475

CATALOG NUMBER: S123RDIW-S1165D755U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	272.0	271.9	271.8	271.7	271.5	271.3	271.1	270.9	271.1	271.3	271.5
115°	316.9	317.2	317.5	317.4	316.9	316.4	315.9	315.5	315.9	316.4	316.9
117.5°	360.7	361.1	361.6	361.6	361.3	360.9	360.6	360.3	360.6	360.9	361.3
120°	390.6	391.4	392.2	392.2	391.2	390.2	389.2	388.2	389.2	390.2	391.2
122.5°	419.5	419.9	420.3	420.2	419.5	418.7	418.0	417.3	418.0	418.7	419.5
125°	463.1	463.4	463.7	463.7	463.2	462.7	462.2	461.7	462.2	462.7	463.2
127.5°	506.5	506.9	507.2	506.9	505.8	504.8	503.7	502.6	503.7	504.8	505.8
130°	534.7	535.2	535.7	535.2	533.9	532.6	531.3	530.0	531.3	532.6	533.9
132.5°	562.3	562.7	563.0	562.6	561.2	559.9	558.6	557.3	558.6	559.9	561.2
135°	603.0	603.2	603.4	602.9	602.0	601.0	600.0	599.0	600.0	601.0	602.0
137.5°	642.4	641.9	641.5	640.9	640.1	639.2	638.4	637.6	638.4	639.2	640.1
140°	668.4	668.3	668.1	667.6	666.8	666.0	665.1	664.3	665.1	666.0	666.8
142.5°	693.1	692.8	692.5	691.9	691.1	690.3	689.5	688.7	689.5	690.3	691.1
145°	729.4	728.9	728.4	728.0	727.6	727.3	727.0	726.7	727.0	727.3	727.6
147.5°	763.7	763.3	762.8	762.3	761.7	761.1	760.5	759.9	760.5	761.1	761.7
150°	785.4	785.0	784.7	784.4	784.1	783.7	783.4	783.1	783.4	783.7	784.1
152.5°	804.6	804.4	804.2	803.9	803.5	803.0	802.5	802.1	802.5	803.0	803.5
155°	832.5	832.3	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1
157.5°	857.0	856.9	856.8	856.8	857.0	857.2	857.4	857.6	857.4	857.2	857.0
160°	872.1	872.1	872.1	872.3	872.6	873.0	873.3	873.6	873.3	873.0	872.6
162.5°	886.1	886.0	885.9	886.0	886.5	886.9	887.4	887.9	887.4	886.9	886.5
165°	904.0	904.0	904.0	904.3	904.8	905.3	905.8	906.3	905.8	905.3	904.8
167.5°	918.3	918.2	918.1	918.3	919.0	919.7	920.3	921.0	920.3	919.7	919.0
170°	926.3	926.3	926.3	926.6	927.3	928.0	928.6	929.3	928.6	928.0	927.3
172.5°	932.8	932.8	932.8	933.2	933.8	934.5	935.2	935.8	935.2	934.5	933.8
175°	939.7	939.7	939.7	940.0	940.7	941.3	942.0	942.6	942.0	941.3	940.7
177.5°	943.1	943.1	943.1	943.4	943.9	944.4	944.9	945.5	944.9	944.4	943.9
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9



TEST NUMBER: P332475

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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°	19.1	21.3	22.4	23.5	24.5	24.3	25.1	25.2	26.0	26.1	26.2
90°	7.3	9.2	11.4	13.5	15.7	17.8	18.5	19.1	19.8	20.5	20.9
92.5°	22.4	23.6	24.8	26.1	27.3	28.5	29.0	29.6	30.1	30.6	30.8
95°	48.4	49.6	51.0	52.3	53.6	54.9	55.6	56.2	56.9	57.6	57.9
97.5°	81.2	82.1	83.1	84.0	85.0	86.0	86.7	87.5	88.2	89.0	89.3
100°	104.9	105.8	106.6	107.5	108.3	109.1	109.6	110.1	110.6	111.1	111.5
102.5°	130.0	130.9	132.0	133.1	134.1	135.2	135.7	136.2	136.7	137.2	137.4
105°	168.3	169.2	170.7	172.2	173.7	175.2	175.2	175.2	175.2	175.2	175.3
107.5°	213.5	213.9	214.5	215.1	215.7	216.3	216.8	217.3	217.9	218.4	218.6
110°	242.5	242.9	243.2	243.5	243.9	244.2	244.9	245.5	246.2	246.8	247.0



TEST NUMBER: P332475

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	271.7	271.8	271.9	272.0	272.0	272.1	272.9	273.7	274.5	275.3	275.6
115°	317.4	317.5	317.2	316.9	316.5	316.2	316.4	316.5	316.7	316.9	316.9
117.5°	361.6	361.6	361.1	360.7	360.3	359.8	359.8	359.8	359.7	359.7	359.5
120°	392.2	392.2	391.4	390.6	389.8	388.9	388.8	388.6	388.4	388.3	388.0
122.5°	420.2	420.3	419.9	419.5	419.1	418.6	418.2	417.8	417.3	416.9	416.5
125°	463.7	463.7	463.4	463.1	462.7	462.4	461.8	461.1	460.4	459.8	459.1
127.5°	506.9	507.2	506.9	506.5	506.1	505.8	504.8	503.9	503.0	502.1	501.2
130°	535.2	535.7	535.2	534.7	534.2	533.7	533.0	532.4	531.7	531.0	530.1
132.5°	562.6	563.0	562.7	562.3	561.9	561.6	560.8	560.0	559.2	558.4	557.6
135°	602.9	603.4	603.2	603.0	602.9	602.7	602.0	601.4	600.7	600.1	599.6
137.5°	640.9	641.5	641.9	642.4	642.8	643.2	642.5	641.8	641.1	640.5	639.8
140°	667.6	668.1	668.3	668.4	668.6	668.8	668.6	668.4	668.3	668.1	667.4
142.5°	691.9	692.5	692.8	693.1	693.4	693.7	693.5	693.4	693.2	693.0	692.5
145°	728.0	728.4	728.9	729.4	729.9	730.4	730.2	730.0	729.9	729.7	729.3
147.5°	762.3	762.8	763.3	763.7	764.2	764.7	764.7	764.7	764.7	764.7	764.2
150°	784.4	784.7	785.0	785.4	785.7	786.0	786.0	786.0	786.0	786.0	785.5
152.5°	803.9	804.2	804.4	804.6	804.8	805.0	805.3	805.6	805.8	806.1	805.8
155°	832.1	832.1	832.3	832.5	832.6	832.8	833.5	834.1	834.8	835.4	835.2
157.5°	856.8	856.8	856.9	857.0	857.2	857.3	858.0	858.7	859.4	860.1	859.9
160°	872.3	872.1	872.1	872.1	872.1	872.1	873.0	873.8	874.6	875.4	875.5
162.5°	886.0	885.9	886.0	886.1	886.3	886.4	887.2	888.0	888.9	889.7	889.6
165°	904.3	904.0	904.0	904.0	904.0	904.0	905.0	906.0	907.0	908.0	907.9
167.5°	918.3	918.1	918.2	918.3	918.5	918.6	919.6	920.6	921.7	922.7	922.7
170°	926.6	926.3	926.3	926.3	926.3	926.3	927.5	928.6	929.8	930.9	930.9
172.5°	933.2	932.8	932.8	932.8	932.8	932.8	933.9	934.9	935.9	936.9	936.9
175°	940.0	939.7	939.7	939.7	939.7	939.7	940.7	941.7	942.6	943.6	943.6
177.5°	943.4	943.1	943.1	943.1	943.1	943.1	943.9	944.7	945.5	946.3	946.2
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9



TEST NUMBER: P332475

CATALOG NUMBER: S123RDIW-S1165D755U835-4F0-1E-UDD-A1

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°	27.5	26.3	26.4	27.1	26.4	26.3	27.5	26.2	26.1	26.0	25.2
90°	21.3	21.6	21.9	22.3	21.9	21.6	21.3	20.9	20.5	19.8	19.1
92.5°	30.6	30.4	30.2	30.0	30.2	30.4	30.6	30.8	30.6	30.1	29.6
95°	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.6	56.9	56.2
97.5°	89.3	89.2	89.1	89.1	89.1	89.2	89.3	89.3	89.0	88.2	87.5
100°	111.8	112.2	112.5	112.8	112.5	112.2	111.8	111.5	111.1	110.6	110.1
102.5°	137.4	137.3	137.2	137.2	137.2	137.3	137.4	137.4	137.2	136.7	136.2
105°	175.7	176.0	176.3	176.7	176.3	176.0	175.7	175.3	175.2	175.2	175.2
107.5°	218.4	218.2	218.0	217.8	218.0	218.2	218.4	218.6	218.4	217.9	217.3
110°	246.7	246.3	246.0	245.7	246.0	246.3	246.7	247.0	246.8	246.2	245.5



TEST NUMBER: P332475

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	275.6	275.5	275.4	275.4	275.4	275.5	275.6	275.6	275.3	274.5	273.7
115°	316.7	316.5	316.4	316.2	316.4	316.5	316.7	316.9	316.9	316.7	316.5
117.5°	359.0	358.5	358.1	357.6	358.1	358.5	359.0	359.5	359.7	359.7	359.8
120°	387.7	387.4	387.0	386.7	387.0	387.4	387.7	388.0	388.3	388.4	388.6
122.5°	416.0	415.5	415.1	414.6	415.1	415.5	416.0	416.5	416.9	417.3	417.8
125°	458.5	457.8	457.1	456.5	457.1	457.8	458.5	459.1	459.8	460.4	461.1
127.5°	500.5	499.7	499.0	498.2	499.0	499.7	500.5	501.2	502.1	503.0	503.9
130°	529.0	527.8	526.7	525.5	526.7	527.8	529.0	530.1	531.0	531.7	532.4
132.5°	556.7	555.8	554.9	554.0	554.9	555.8	556.7	557.6	558.4	559.2	560.0
135°	599.2	598.9	598.6	598.2	598.6	598.9	599.2	599.6	600.1	600.7	601.4
137.5°	639.2	638.5	637.9	637.3	637.9	638.5	639.2	639.8	640.5	641.1	641.8
140°	666.3	665.1	664.0	662.8	664.0	665.1	666.3	667.4	668.1	668.3	668.4
142.5°	691.6	690.7	689.8	688.9	689.8	690.7	691.6	692.5	693.0	693.2	693.4
145°	728.6	728.0	727.3	726.7	727.3	728.0	728.6	729.3	729.7	729.9	730.0
147.5°	763.2	762.2	761.2	760.2	761.2	762.2	763.2	764.2	764.7	764.7	764.7
150°	784.5	783.6	782.6	781.6	782.6	783.6	784.5	785.5	786.0	786.0	786.0
152.5°	804.9	804.1	803.2	802.4	803.2	804.1	804.9	805.8	806.1	805.8	805.6
155°	834.0	832.9	831.7	830.6	831.7	832.9	834.0	835.2	835.4	834.8	834.1
157.5°	859.0	858.1	857.2	856.2	857.2	858.1	859.0	859.9	860.1	859.4	858.7
160°	874.9	874.2	873.5	872.9	873.5	874.2	874.9	875.5	875.4	874.6	873.8
162.5°	888.5	887.5	886.4	885.3	886.4	887.5	888.5	889.6	889.7	888.9	888.0
165°	906.8	905.6	904.5	903.3	904.5	905.6	906.8	907.9	908.0	907.0	906.0
167.5°	921.7	920.6	919.6	918.6	919.6	920.6	921.7	922.7	922.7	921.7	920.6
170°	929.8	928.6	927.5	926.3	927.5	928.6	929.8	930.9	930.9	929.8	928.6
172.5°	935.7	934.6	933.4	932.3	933.4	934.6	935.7	936.9	936.9	935.9	934.9
175°	942.4	941.2	940.1	938.9	940.1	941.2	942.4	943.6	943.6	942.6	941.7
177.5°	945.3	944.3	943.4	942.5	943.4	944.3	945.3	946.2	946.3	945.5	944.7
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9



TEST NUMBER: P332475

CATALOG NUMBER: S123RDIW-S1165D755U835-4F0-1E-UDD-A1

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	24.3	24.5	23.5	22.4	21.3	19.1	19.4	19.0	21.2	20.3
90°	18.5	17.8	15.7	13.5	11.4	9.2	7.3	5.7	4.0	2.4	0.7
92.5°	29.0	28.5	27.3	26.1	24.8	23.6	22.4	21.3	20.2	19.1	18.0
95°	55.6	54.9	53.6	52.3	51.0	49.6	48.4	47.3	46.1	44.9	43.8
97.5°	86.7	86.0	85.0	84.0	83.1	82.1	81.2	80.4	79.5	78.6	77.8
100°	109.6	109.1	108.3	107.5	106.6	105.8	104.9	103.9	102.9	101.9	100.9
102.5°	135.7	135.2	134.1	133.1	132.0	130.9	130.0	129.4	128.9	128.3	127.7
105°	175.2	175.2	173.7	172.2	170.7	169.2	168.3	168.0	167.7	167.3	167.0
107.5°	216.8	216.3	215.7	215.1	214.5	213.9	213.5	213.3	213.1	212.9	212.7
110°	244.9	244.2	243.9	243.5	243.2	242.9	242.5	242.2	241.9	241.6	241.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	272.9	272.1	272.0	272.0	271.9	271.8	271.7	271.5	271.3	271.1	270.9
115°	316.4	316.2	316.5	316.9	317.2	317.5	317.4	316.9	316.4	315.9	315.5
117.5°	359.8	359.8	360.3	360.7	361.1	361.6	361.6	361.3	360.9	360.6	360.3
120°	388.8	388.9	389.8	390.6	391.4	392.2	392.2	391.2	390.2	389.2	388.2
122.5°	418.2	418.6	419.1	419.5	419.9	420.3	420.2	419.5	418.7	418.0	417.3
125°	461.8	462.4	462.7	463.1	463.4	463.7	463.7	463.2	462.7	462.2	461.7
127.5°	504.8	505.8	506.1	506.5	506.9	507.2	506.9	505.8	504.8	503.7	502.6
130°	533.0	533.7	534.2	534.7	535.2	535.7	535.2	533.9	532.6	531.3	530.0
132.5°	560.8	561.6	561.9	562.3	562.7	563.0	562.6	561.2	559.9	558.6	557.3
135°	602.0	602.7	602.9	603.0	603.2	603.4	602.9	602.0	601.0	600.0	599.0
137.5°	642.5	643.2	642.8	642.4	641.9	641.5	640.9	640.1	639.2	638.4	637.6
140°	668.6	668.8	668.6	668.4	668.3	668.1	667.6	666.8	666.0	665.1	664.3
142.5°	693.5	693.7	693.4	693.1	692.8	692.5	691.9	691.1	690.3	689.5	688.7
145°	730.2	730.4	729.9	729.4	728.9	728.4	728.0	727.6	727.3	727.0	726.7
147.5°	764.7	764.7	764.2	763.7	763.3	762.8	762.3	761.7	761.1	760.5	759.9
150°	786.0	786.0	785.7	785.4	785.0	784.7	784.4	784.1	783.7	783.4	783.1
152.5°	805.3	805.0	804.8	804.6	804.4	804.2	803.9	803.5	803.0	802.5	802.1
155°	833.5	832.8	832.6	832.5	832.3	832.1	832.1	832.1	832.1	832.1	832.1
157.5°	858.0	857.3	857.2	857.0	856.9	856.8	856.8	857.0	857.2	857.4	857.6
160°	873.0	872.1	872.1	872.1	872.1	872.1	872.3	872.6	873.0	873.3	873.6
162.5°	887.2	886.4	886.3	886.1	886.0	885.9	886.0	886.5	886.9	887.4	887.9
165°	905.0	904.0	904.0	904.0	904.0	904.0	904.3	904.8	905.3	905.8	906.3
167.5°	919.6	918.6	918.5	918.3	918.2	918.1	918.3	919.0	919.7	920.3	921.0
170°	927.5	926.3	926.3	926.3	926.3	926.3	926.6	927.3	928.0	928.6	929.3
172.5°	933.9	932.8	932.8	932.8	932.8	932.8	933.2	933.8	934.5	935.2	935.8
175°	940.7	939.7	939.7	939.7	939.7	939.7	940.0	940.7	941.3	942.0	942.6
177.5°	943.9	943.1	943.1	943.1	943.1	943.1	943.4	943.9	944.4	944.9	945.5
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9



TEST NUMBER: P332475

CATALOG NUMBER: S123RDIW-S1165D755U835-4F0-1E-UDD-A1

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°	17.5	14.0	13.7	12.2	12.5	11.7	12.8	11.9	11.7	12.5	11.4
90°	2.4	4.0	5.7	7.3	9.2	11.4	13.5	15.7	17.8	18.5	19.1
92.5°	19.1	20.2	21.3	22.4	23.6	24.8	26.1	27.3	28.5	29.0	29.6
95°	44.9	46.1	47.3	48.4	49.6	51.0	52.3	53.6	54.9	55.6	56.2
97.5°	78.6	79.5	80.4	81.2	82.1	83.1	84.0	85.0	86.0	86.7	87.5
100°	101.9	102.9	103.9	104.9	105.8	106.6	107.5	108.3	109.1	109.6	110.1
102.5°	128.3	128.9	129.4	130.0	130.9	132.0	133.1	134.1	135.2	135.7	136.2
105°	167.3	167.7	168.0	168.3	169.2	170.7	172.2	173.7	175.2	175.2	175.2
107.5°	212.9	213.1	213.3	213.5	213.9	214.5	215.1	215.7	216.3	216.8	217.3
110°	241.6	241.9	242.2	242.5	242.9	243.2	243.5	243.9	244.2	244.9	245.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	271.1	271.3	271.5	271.7	271.8	271.9	272.0	272.0	272.1	272.9	273.7
115°	315.9	316.4	316.9	317.4	317.5	317.2	316.9	316.5	316.2	316.4	316.5
117.5°	360.6	360.9	361.3	361.6	361.6	361.1	360.7	360.3	359.8	359.8	359.8
120°	389.2	390.2	391.2	392.2	392.2	391.4	390.6	389.8	388.9	388.8	388.6
122.5°	418.0	418.7	419.5	420.2	420.3	419.9	419.5	419.1	418.6	418.2	417.8
125°	462.2	462.7	463.2	463.7	463.7	463.4	463.1	462.7	462.4	461.8	461.1
127.5°	503.7	504.8	505.8	506.9	507.2	506.9	506.5	506.1	505.8	504.8	503.9
130°	531.3	532.6	533.9	535.2	535.7	535.2	534.7	534.2	533.7	533.0	532.4
132.5°	558.6	559.9	561.2	562.6	563.0	562.7	562.3	561.9	561.6	560.8	560.0
135°	600.0	601.0	602.0	602.9	603.4	603.2	603.0	602.9	602.7	602.0	601.4
137.5°	638.4	639.2	640.1	640.9	641.5	641.9	642.4	642.8	643.2	642.5	641.8
140°	665.1	666.0	666.8	667.6	668.1	668.3	668.4	668.6	668.8	668.6	668.4
142.5°	689.5	690.3	691.1	691.9	692.5	692.8	693.1	693.4	693.7	693.5	693.4
145°	727.0	727.3	727.6	728.0	728.4	728.9	729.4	729.9	730.4	730.2	730.0
147.5°	760.5	761.1	761.7	762.3	762.8	763.3	763.7	764.2	764.7	764.7	764.7
150°	783.4	783.7	784.1	784.4	784.7	785.0	785.4	785.7	786.0	786.0	786.0
152.5°	802.5	803.0	803.5	803.9	804.2	804.4	804.6	804.8	805.0	805.3	805.6
155°	832.1	832.1	832.1	832.1	832.1	832.3	832.5	832.6	832.8	833.5	834.1
157.5°	857.4	857.2	857.0	856.8	856.8	856.9	857.0	857.2	857.3	858.0	858.7
160°	873.3	873.0	872.6	872.3	872.1	872.1	872.1	872.1	872.1	873.0	873.8
162.5°	887.4	886.9	886.5	886.0	885.9	886.0	886.1	886.3	886.4	887.2	888.0
165°	905.8	905.3	904.8	904.3	904.0	904.0	904.0	904.0	904.0	905.0	906.0
167.5°	920.3	919.7	919.0	918.3	918.1	918.2	918.3	918.5	918.6	919.6	920.6
170°	928.6	928.0	927.3	926.6	926.3	926.3	926.3	926.3	926.3	927.5	928.6
172.5°	935.2	934.5	933.8	933.2	932.8	932.8	932.8	932.8	932.8	933.9	934.9
175°	942.0	941.3	940.7	940.0	939.7	939.7	939.7	939.7	939.7	940.7	941.7
177.5°	944.9	944.4	943.9	943.4	943.1	943.1	943.1	943.1	943.1	943.9	944.7
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9



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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°	11.5	11.6	11.1	11.2	10.6	11.9	10.7
90°	19.8	20.5	20.9	21.3	21.6	21.9	22.3
92.5°	30.1	30.6	30.8	30.6	30.4	30.2	30.0
95°	56.9	57.6	57.9	57.9	57.9	57.9	57.9
97.5°	88.2	89.0	89.3	89.3	89.2	89.1	89.1
100°	110.6	111.1	111.5	111.8	112.2	112.5	112.8
102.5°	136.7	137.2	137.4	137.4	137.3	137.2	137.2
105°	175.2	175.2	175.3	175.7	176.0	176.3	176.7
107.5°	217.9	218.4	218.6	218.4	218.2	218.0	217.8
110°	246.2	246.8	247.0	246.7	246.3	246.0	245.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	274.5	275.3	275.6	275.6	275.5	275.4	275.4
115°	316.7	316.9	316.9	316.7	316.5	316.4	316.2
117.5°	359.7	359.7	359.5	359.0	358.5	358.1	357.6
120°	388.4	388.3	388.0	387.7	387.4	387.0	386.7
122.5°	417.3	416.9	416.5	416.0	415.5	415.1	414.6
125°	460.4	459.8	459.1	458.5	457.8	457.1	456.5
127.5°	503.0	502.1	501.2	500.5	499.7	499.0	498.2
130°	531.7	531.0	530.1	529.0	527.8	526.7	525.5
132.5°	559.2	558.4	557.6	556.7	555.8	554.9	554.0
135°	600.7	600.1	599.6	599.2	598.9	598.6	598.2
137.5°	641.1	640.5	639.8	639.2	638.5	637.9	637.3
140°	668.3	668.1	667.4	666.3	665.1	664.0	662.8
142.5°	693.2	693.0	692.5	691.6	690.7	689.8	688.9
145°	729.9	729.7	729.3	728.6	728.0	727.3	726.7
147.5°	764.7	764.7	764.2	763.2	762.2	761.2	760.2
150°	786.0	786.0	785.5	784.5	783.6	782.6	781.6
152.5°	805.8	806.1	805.8	804.9	804.1	803.2	802.4
155°	834.8	835.4	835.2	834.0	832.9	831.7	830.6
157.5°	859.4	860.1	859.9	859.0	858.1	857.2	856.2
160°	874.6	875.4	875.5	874.9	874.2	873.5	872.9
162.5°	888.9	889.7	889.6	888.5	887.5	886.4	885.3
165°	907.0	908.0	907.9	906.8	905.6	904.5	903.3
167.5°	921.7	922.7	922.7	921.7	920.6	919.6	918.6
170°	929.8	930.9	930.9	929.8	928.6	927.5	926.3
172.5°	935.9	936.9	936.9	935.7	934.6	933.4	932.3
175°	942.6	943.6	943.6	942.4	941.2	940.1	938.9
177.5°	945.5	946.3	946.2	945.3	944.3	943.4	942.5
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9

(END OF REPORT)