

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: P332474

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332474
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
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-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 755 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7594.6 lumens
Efficiency: N/A
Efficacy: 127.0 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: Semi-Direct

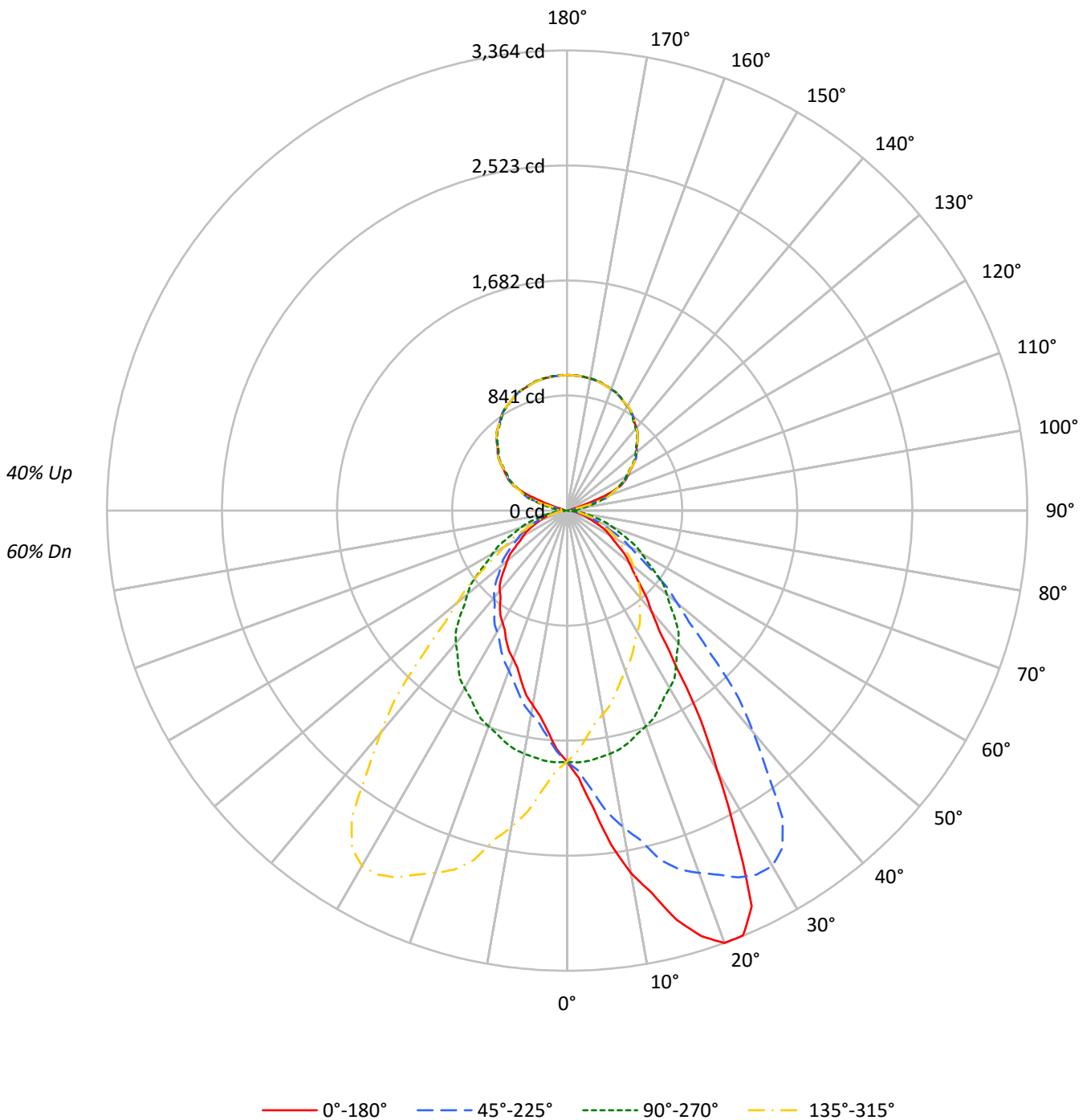
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0																			
RCR																																														
0	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66	66	66	66	66	66	66	66	66	66	60																			
1	101	97	93	90	94	91	87	84	79	77	75	69	67	65	59	58	57	57	57	57	57	57	57	57	57	57	52																			
2	92	85	79	74	86	80	75	71	70	66	63	61	58	56	53	51	49	49	49	49	49	49	49	49	49	49	45																			
3	85	76	68	63	79	71	65	60	63	58	54	55	51	48	47	45	42	42	42	42	42	42	42	42	42	42	39																			
4	78	67	60	54	73	63	57	51	56	51	46	49	45	42	43	40	37	37	37	37	37	37	37	37	37	37	34																			
5	72	60	52	47	67	57	50	45	51	45	41	45	40	37	39	35	33	33	33	33	33	33	33	33	33	33	30																			
6	66	55	47	41	62	52	44	39	46	40	36	40	36	32	36	32	29	29	29	29	29	29	29	29	29	29	27																			
7	62	49	42	36	58	47	40	35	42	36	32	37	32	29	33	29	26	26	26	26	26	26	26	26	26	26	24																			
8	57	45	37	32	54	43	36	31	38	33	28	34	29	26	30	26	24	24	24	24	24	24	24	24	24	24	21																			
9	53	41	34	29	50	39	32	28	35	30	26	31	27	24	28	24	21	21	21	21	21	21	21	21	21	21	19																			
10	50	38	31	26	47	36	30	25	33	27	23	29	25	21	26	22	20	20	20	20	20	20	20	20	20	20	18																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19763	19763	19763	19763
5°	23558	19847	17477	19847
10°	29415	19733	15789	19733
15°	34526	19531	14399	19531
20°	38533	19230	13216	19230
25°	37917	18912	12490	18912
30°	27256	18620	11742	18620
35°	18198	18239	11257	18239
40°	13408	17781	10756	17781
45°	11246	16978	10266	16978
50°	9923	15925	9582	15925
55°	8702	14720	8644	14720
60°	7750	13569	7918	13569
65°	6805	12332	7366	12332
70°	5344	11229	6729	11229
75°	4708	9807	6147	9807
80°	4091	8331	6044	8331
85°	3298	6694	6410	6694



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	2.4
10°-20°	564.1	7.4
20°-30°	886.2	11.7
30°-40°	924.6	12.2
40°-50°	791.2	10.4
50°-60°	603.1	7.9
60°-70°	386.5	5.1
70°-80°	186.0	2.4
80°-90°	52.0	0.7
90°-100°	36.0	0.5
100°-110°	171.6	2.3
110°-120°	412.3	5.4
120°-130°	525.0	6.9
130°-140°	560.9	7.4
140°-150°	524.5	6.9
150°-160°	423.1	5.6
160°-170°	273.1	3.6
170°-180°	94.1	1.2
0°-30°	1630.8	21.5
0°-40°	2555.4	33.6
0°-60°	3949.7	52.0
0°-90°	4574.2	60.2
90°-120°	619.9	8.2
90°-150°	2230.2	29.4
90°-180°	3020.0	39.8
0°-180°	7594.6	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	11
95°	28	45	28	45	28	23
105°	32	219	32	219	32	74
115°	433	411	433	411	433	400
125°	592	580	592	580	592	528
135°	729	722	729	722	729	562
145°	841	833	841	833	841	525
155°	916	918	916	918	916	422
165°	965	968	965	968	965	273
175°	987	990	987	990	987	94
180°	990	990	990	990	990	



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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	11.1	11.1	11.6	11.5	11.3	12.5	11.7	11.9
90°	22.1	21.7	21.4	21.1	20.8	20.3	19.6	19.0	18.3	17.7	15.5
92.5°	24.4	24.2	24.0	23.8	23.6	23.0	22.0	20.9	19.9	18.8	17.2
95°	28.0	28.0	28.0	28.0	28.0	27.4	26.2	25.1	24.0	22.8	21.0
97.5°	30.3	30.2	30.0	29.8	29.7	28.9	27.6	26.3	25.0	23.7	35.5
100°	30.9	30.7	30.6	30.4	30.3	29.5	28.2	26.9	25.6	24.3	49.8
102.5°	31.5	31.2	30.9	30.6	30.3	32.2	36.3	40.3	44.4	48.4	76.3
105°	32.4	32.1	31.7	31.4	31.1	45.4	74.3	103.3	132.2	161.2	175.9
107.5°	101.7	123.5	145.3	167.1	189.0	210.5	231.7	252.9	274.1	295.4	293.1
110°	202.4	225.7	249.1	272.5	295.9	310.3	315.7	321.1	326.5	331.9	330.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	347.2	352.1	357.1	362.0	366.9	369.4	369.3	369.2	369.1	369.0	367.2
115°	432.7	432.0	431.4	430.7	430.1	428.9	427.3	425.7	424.0	422.4	420.9
117.5°	480.7	480.5	480.4	480.3	480.1	479.4	478.1	476.8	475.5	474.2	473.4
120°	513.6	513.6	513.6	513.6	513.6	513.0	511.7	510.4	509.1	507.7	507.3
122.5°	546.0	545.9	545.7	545.6	545.5	545.0	544.0	543.1	542.2	541.3	540.7
125°	591.6	591.3	591.0	590.7	590.3	590.0	589.7	589.3	589.0	588.7	588.0
127.5°	635.5	635.8	636.1	636.5	636.8	636.7	636.2	635.7	635.1	634.6	633.8
130°	663.7	664.1	664.4	664.7	665.1	664.9	664.2	663.6	662.9	662.3	661.6
132.5°	689.6	690.1	690.6	691.0	691.5	691.4	690.7	690.1	689.4	688.8	688.2
135°	729.2	729.7	730.2	730.7	731.2	731.2	730.7	730.2	729.7	729.2	728.6
137.5°	766.5	766.8	767.1	767.5	767.8	767.6	766.8	766.0	765.2	764.4	764.1
140°	788.8	789.2	789.5	789.8	790.2	790.0	789.3	788.7	788.0	787.4	786.9
142.5°	809.4	809.9	810.4	810.8	811.3	811.2	810.7	810.2	809.7	809.2	808.7
145°	841.1	841.1	841.1	841.1	841.1	840.9	840.6	840.3	839.9	839.6	839.3
147.5°	864.6	865.4	866.1	866.9	867.6	867.9	867.5	867.2	866.9	866.5	866.2
150°	882.3	882.8	883.3	883.8	884.3	884.3	884.0	883.7	883.4	883.0	882.7
152.5°	896.4	897.2	897.9	898.7	899.4	899.5	898.9	898.3	897.7	897.2	897.0
155°	916.1	917.1	918.1	919.1	920.1	920.2	919.3	918.5	917.7	916.9	916.7
157.5°	932.8	934.1	935.3	936.6	937.9	938.0	937.0	936.1	935.1	934.1	934.3
160°	943.4	944.5	945.7	946.8	948.0	948.0	947.1	946.1	945.1	944.1	944.3
162.5°	953.4	954.4	955.4	956.4	957.4	957.4	956.3	955.2	954.1	952.9	953.1
165°	965.4	966.6	967.7	968.9	970.0	969.9	968.6	967.3	966.0	964.7	964.9
167.5°	974.1	975.4	976.7	978.1	979.4	979.4	978.1	976.7	975.4	974.1	974.1
170°	979.4	980.7	982.0	983.4	984.7	984.7	983.4	982.0	980.7	979.4	979.4
172.5°	982.4	983.8	985.3	986.7	988.1	988.2	986.9	985.6	984.3	983.0	982.8
175°	986.8	988.1	989.4	990.7	992.0	992.1	991.0	989.8	988.7	987.5	987.4
177.5°	988.1	989.4	990.7	992.0	993.3	993.5	992.4	991.4	990.3	989.3	989.2
180°	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5



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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°	12.7	11.7	12.5	12.1	13.7	14.0	17.5	20.3	21.2	19.0	19.4
90°	13.4	11.3	9.2	7.3	5.6	4.0	2.4	0.7	2.4	4.0	5.6
92.5°	15.6	14.0	12.4	11.9	12.3	12.8	13.2	13.7	13.2	12.8	12.3
95°	19.2	17.4	15.6	18.1	24.8	31.5	38.2	44.9	38.2	31.5	24.8
97.5°	47.2	59.0	70.8	78.2	81.2	84.2	87.2	90.2	87.2	84.2	81.2
100°	75.3	100.8	126.3	137.4	134.2	130.9	127.6	124.4	127.6	130.9	134.2
102.5°	104.1	132.0	159.9	172.6	170.3	167.9	165.6	163.2	165.6	167.9	170.3
105°	190.6	205.3	220.0	226.5	224.7	222.9	221.1	219.3	221.1	222.9	224.7
107.5°	290.7	288.4	286.1	284.2	282.8	281.3	279.9	278.4	279.9	281.3	282.8
110°	328.3	326.5	324.7	323.1	321.8	320.5	319.2	317.9	319.2	320.5	321.8



TEST NUMBER: P332474

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	365.4	363.6	361.8	360.3	359.1	357.9	356.7	355.6	356.7	357.9	359.1
115°	419.4	418.0	416.5	415.3	414.3	413.3	412.3	411.3	412.3	413.3	414.3
117.5°	472.7	471.9	471.2	470.2	469.0	467.8	466.6	465.4	466.6	467.8	469.0
120°	506.8	506.3	505.8	504.8	503.3	501.9	500.4	498.9	500.4	501.9	503.3
122.5°	540.1	539.4	538.8	537.9	536.7	535.5	534.3	533.1	534.3	535.5	536.7
125°	587.4	586.7	586.1	585.1	583.8	582.5	581.2	579.9	581.2	582.5	583.8
127.5°	633.0	632.3	631.5	630.4	629.1	627.8	626.5	625.2	626.5	627.8	629.1
130°	661.0	660.3	659.7	658.7	657.4	656.1	654.8	653.4	654.8	656.1	657.4
132.5°	687.7	687.2	686.7	685.8	684.4	683.1	681.8	680.5	681.8	683.1	684.4
135°	727.9	727.3	726.6	725.8	724.8	723.8	722.9	721.9	722.9	723.8	724.8
137.5°	763.7	763.3	763.0	762.2	760.9	759.7	758.4	757.2	758.4	759.7	760.9
140°	786.4	785.9	785.4	784.7	783.7	782.7	781.7	780.7	781.7	782.7	783.7
142.5°	808.2	807.7	807.2	806.5	805.5	804.5	803.5	802.5	803.5	804.5	805.5
145°	839.0	838.6	838.3	837.6	836.4	835.3	834.1	833.0	834.1	835.3	836.4
147.5°	865.9	865.6	865.2	864.7	863.9	863.2	862.4	861.7	862.4	863.2	863.9
150°	882.4	882.1	881.7	881.3	880.8	880.3	879.8	879.4	879.8	880.3	880.8
152.5°	896.8	896.6	896.4	896.2	895.9	895.7	895.5	895.2	895.5	895.7	895.9
155°	916.6	916.4	916.2	916.3	916.6	917.0	917.3	917.6	917.3	917.0	916.6
157.5°	934.4	934.6	934.8	934.9	934.9	934.9	935.0	935.0	935.0	934.9	934.9
160°	944.4	944.6	944.8	944.9	945.1	945.3	945.4	945.6	945.4	945.3	945.1
162.5°	953.3	953.4	953.6	953.9	954.3	954.7	955.2	955.6	955.2	954.7	954.3
165°	965.0	965.2	965.4	965.7	966.2	966.7	967.2	967.7	967.2	966.7	966.2
167.5°	974.1	974.1	974.1	974.5	975.1	975.8	976.4	977.1	976.4	975.8	975.1
170°	979.4	979.4	979.4	979.8	980.4	981.1	981.7	982.4	981.7	981.1	980.4
172.5°	982.7	982.6	982.4	982.8	983.6	984.3	985.1	985.9	985.1	984.3	983.6
175°	987.2	987.0	986.9	987.2	988.0	988.8	989.6	990.5	989.6	988.8	988.0
177.5°	989.0	988.9	988.8	989.0	989.7	990.3	991.0	991.6	991.0	990.3	989.7
180°	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5



TEST NUMBER: P332474

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

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	23.4	24.5	24.3	25.0	25.2	25.9	26.1	26.2
90°	7.3	9.2	11.3	13.4	15.5	17.7	18.3	19.0	19.6	20.3	20.8
92.5°	11.9	12.4	14.0	15.6	17.2	18.8	19.9	20.9	22.0	23.0	23.6
95°	18.1	15.6	17.4	19.2	21.0	22.8	24.0	25.1	26.2	27.4	28.0
97.5°	78.2	70.8	59.0	47.2	35.5	23.7	25.0	26.3	27.6	28.9	29.7
100°	137.4	126.3	100.8	75.3	49.8	24.3	25.6	26.9	28.2	29.5	30.3
102.5°	172.6	159.9	132.0	104.1	76.3	48.4	44.4	40.3	36.3	32.2	30.3
105°	226.5	220.0	205.3	190.6	175.9	161.2	132.2	103.3	74.3	45.4	31.1
107.5°	284.2	286.1	288.4	290.7	293.1	295.4	274.1	252.9	231.7	210.5	189.0
110°	323.1	324.7	326.5	328.3	330.1	331.9	326.5	321.1	315.7	310.3	295.9



TEST NUMBER: P332474

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	360.3	361.8	363.6	365.4	367.2	369.0	369.1	369.2	369.3	369.4	366.9
115°	415.3	416.5	418.0	419.4	420.9	422.4	424.0	425.7	427.3	428.9	430.1
117.5°	470.2	471.2	471.9	472.7	473.4	474.2	475.5	476.8	478.1	479.4	480.1
120°	504.8	505.8	506.3	506.8	507.3	507.7	509.1	510.4	511.7	513.0	513.6
122.5°	537.9	538.8	539.4	540.1	540.7	541.3	542.2	543.1	544.0	545.0	545.5
125°	585.1	586.1	586.7	587.4	588.0	588.7	589.0	589.3	589.7	590.0	590.3
127.5°	630.4	631.5	632.3	633.0	633.8	634.6	635.1	635.7	636.2	636.7	636.8
130°	658.7	659.7	660.3	661.0	661.6	662.3	662.9	663.6	664.2	664.9	665.1
132.5°	685.8	686.7	687.2	687.7	688.2	688.8	689.4	690.1	690.7	691.4	691.5
135°	725.8	726.6	727.3	727.9	728.6	729.2	729.7	730.2	730.7	731.2	731.2
137.5°	762.2	763.0	763.3	763.7	764.1	764.4	765.2	766.0	766.8	767.6	767.8
140°	784.7	785.4	785.9	786.4	786.9	787.4	788.0	788.7	789.3	790.0	790.2
142.5°	806.5	807.2	807.7	808.2	808.7	809.2	809.7	810.2	810.7	811.2	811.3
145°	837.6	838.3	838.6	839.0	839.3	839.6	839.9	840.3	840.6	840.9	841.1
147.5°	864.7	865.2	865.6	865.9	866.2	866.5	866.9	867.2	867.5	867.9	867.6
150°	881.3	881.7	882.1	882.4	882.7	883.0	883.4	883.7	884.0	884.3	884.3
152.5°	896.2	896.4	896.6	896.8	897.0	897.2	897.7	898.3	898.9	899.5	899.4
155°	916.3	916.2	916.4	916.6	916.7	916.9	917.7	918.5	919.3	920.2	920.1
157.5°	934.9	934.8	934.6	934.4	934.3	934.1	935.1	936.1	937.0	938.0	937.9
160°	944.9	944.8	944.6	944.4	944.3	944.1	945.1	946.1	947.1	948.0	948.0
162.5°	953.9	953.6	953.4	953.3	953.1	952.9	954.1	955.2	956.3	957.4	957.4
165°	965.7	965.4	965.2	965.0	964.9	964.7	966.0	967.3	968.6	969.9	970.0
167.5°	974.5	974.1	974.1	974.1	974.1	974.1	975.4	976.7	978.1	979.4	979.4
170°	979.8	979.4	979.4	979.4	979.4	979.4	980.7	982.0	983.4	984.7	984.7
172.5°	982.8	982.4	982.6	982.7	982.8	983.0	984.3	985.6	986.9	988.2	988.1
175°	987.2	986.9	987.0	987.2	987.4	987.5	988.7	989.8	991.0	992.1	992.0
177.5°	989.0	988.8	988.9	989.0	989.2	989.3	990.3	991.4	992.4	993.5	993.3
180°	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5



TEST NUMBER: P332474

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

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	25.9	25.2
90°	21.1	21.4	21.7	22.1	21.7	21.4	21.1	20.8	20.3	19.6	19.0
92.5°	23.8	24.0	24.2	24.4	24.2	24.0	23.8	23.6	23.0	22.0	20.9
95°	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	27.4	26.2	25.1
97.5°	29.8	30.0	30.2	30.3	30.2	30.0	29.8	29.7	28.9	27.6	26.3
100°	30.4	30.6	30.7	30.9	30.7	30.6	30.4	30.3	29.5	28.2	26.9
102.5°	30.6	30.9	31.2	31.5	31.2	30.9	30.6	30.3	32.2	36.3	40.3
105°	31.4	31.7	32.1	32.4	32.1	31.7	31.4	31.1	45.4	74.3	103.3
107.5°	167.1	145.3	123.5	101.7	123.5	145.3	167.1	189.0	210.5	231.7	252.9
110°	272.5	249.1	225.7	202.4	225.7	249.1	272.5	295.9	310.3	315.7	321.1



TEST NUMBER: P332474

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	362.0	357.1	352.1	347.2	352.1	357.1	362.0	366.9	369.4	369.3	369.2
115°	430.7	431.4	432.0	432.7	432.0	431.4	430.7	430.1	428.9	427.3	425.7
117.5°	480.3	480.4	480.5	480.7	480.5	480.4	480.3	480.1	479.4	478.1	476.8
120°	513.6	513.6	513.6	513.6	513.6	513.6	513.6	513.6	513.0	511.7	510.4
122.5°	545.6	545.7	545.9	546.0	545.9	545.7	545.6	545.5	545.0	544.0	543.1
125°	590.7	591.0	591.3	591.6	591.3	591.0	590.7	590.3	590.0	589.7	589.3
127.5°	636.5	636.1	635.8	635.5	635.8	636.1	636.5	636.8	636.7	636.2	635.7
130°	664.7	664.4	664.1	663.7	664.1	664.4	664.7	665.1	664.9	664.2	663.6
132.5°	691.0	690.6	690.1	689.6	690.1	690.6	691.0	691.5	691.4	690.7	690.1
135°	730.7	730.2	729.7	729.2	729.7	730.2	730.7	731.2	731.2	730.7	730.2
137.5°	767.5	767.1	766.8	766.5	766.8	767.1	767.5	767.8	767.6	766.8	766.0
140°	789.8	789.5	789.2	788.8	789.2	789.5	789.8	790.2	790.0	789.3	788.7
142.5°	810.8	810.4	809.9	809.4	809.9	810.4	810.8	811.3	811.2	810.7	810.2
145°	841.1	841.1	841.1	841.1	841.1	841.1	841.1	841.1	840.9	840.6	840.3
147.5°	866.9	866.1	865.4	864.6	865.4	866.1	866.9	867.6	867.9	867.5	867.2
150°	883.8	883.3	882.8	882.3	882.8	883.3	883.8	884.3	884.3	884.0	883.7
152.5°	898.7	897.9	897.2	896.4	897.2	897.9	898.7	899.4	899.5	898.9	898.3
155°	919.1	918.1	917.1	916.1	917.1	918.1	919.1	920.1	920.2	919.3	918.5
157.5°	936.6	935.3	934.1	932.8	934.1	935.3	936.6	937.9	938.0	937.0	936.1
160°	946.8	945.7	944.5	943.4	944.5	945.7	946.8	948.0	948.0	947.1	946.1
162.5°	956.4	955.4	954.4	953.4	954.4	955.4	956.4	957.4	957.4	956.3	955.2
165°	968.9	967.7	966.6	965.4	966.6	967.7	968.9	970.0	969.9	968.6	967.3
167.5°	978.1	976.7	975.4	974.1	975.4	976.7	978.1	979.4	979.4	978.1	976.7
170°	983.4	982.0	980.7	979.4	980.7	982.0	983.4	984.7	984.7	983.4	982.0
172.5°	986.7	985.3	983.8	982.4	983.8	985.3	986.7	988.1	988.2	986.9	985.6
175°	990.7	989.4	988.1	986.8	988.1	989.4	990.7	992.0	992.1	991.0	989.8
177.5°	992.0	990.7	989.4	988.1	989.4	990.7	992.0	993.3	993.5	992.4	991.4
180°	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5



TEST NUMBER: P332474

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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°	25.0	24.3	24.5	23.4	22.4	21.3	19.1	19.4	19.0	21.2	20.3
90°	18.3	17.7	15.5	13.4	11.3	9.2	7.3	5.6	4.0	2.4	0.7
92.5°	19.9	18.8	17.2	15.6	14.0	12.4	11.9	12.3	12.8	13.2	13.7
95°	24.0	22.8	21.0	19.2	17.4	15.6	18.1	24.8	31.5	38.2	44.9
97.5°	25.0	23.7	35.5	47.2	59.0	70.8	78.2	81.2	84.2	87.2	90.2
100°	25.6	24.3	49.8	75.3	100.8	126.3	137.4	134.2	130.9	127.6	124.4
102.5°	44.4	48.4	76.3	104.1	132.0	159.9	172.6	170.3	167.9	165.6	163.2
105°	132.2	161.2	175.9	190.6	205.3	220.0	226.5	224.7	222.9	221.1	219.3
107.5°	274.1	295.4	293.1	290.7	288.4	286.1	284.2	282.8	281.3	279.9	278.4
110°	326.5	331.9	330.1	328.3	326.5	324.7	323.1	321.8	320.5	319.2	317.9



TEST NUMBER: P332474

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	369.1	369.0	367.2	365.4	363.6	361.8	360.3	359.1	357.9	356.7	355.6
115°	424.0	422.4	420.9	419.4	418.0	416.5	415.3	414.3	413.3	412.3	411.3
117.5°	475.5	474.2	473.4	472.7	471.9	471.2	470.2	469.0	467.8	466.6	465.4
120°	509.1	507.7	507.3	506.8	506.3	505.8	504.8	503.3	501.9	500.4	498.9
122.5°	542.2	541.3	540.7	540.1	539.4	538.8	537.9	536.7	535.5	534.3	533.1
125°	589.0	588.7	588.0	587.4	586.7	586.1	585.1	583.8	582.5	581.2	579.9
127.5°	635.1	634.6	633.8	633.0	632.3	631.5	630.4	629.1	627.8	626.5	625.2
130°	662.9	662.3	661.6	661.0	660.3	659.7	658.7	657.4	656.1	654.8	653.4
132.5°	689.4	688.8	688.2	687.7	687.2	686.7	685.8	684.4	683.1	681.8	680.5
135°	729.7	729.2	728.6	727.9	727.3	726.6	725.8	724.8	723.8	722.9	721.9
137.5°	765.2	764.4	764.1	763.7	763.3	763.0	762.2	760.9	759.7	758.4	757.2
140°	788.0	787.4	786.9	786.4	785.9	785.4	784.7	783.7	782.7	781.7	780.7
142.5°	809.7	809.2	808.7	808.2	807.7	807.2	806.5	805.5	804.5	803.5	802.5
145°	839.9	839.6	839.3	839.0	838.6	838.3	837.6	836.4	835.3	834.1	833.0
147.5°	866.9	866.5	866.2	865.9	865.6	865.2	864.7	863.9	863.2	862.4	861.7
150°	883.4	883.0	882.7	882.4	882.1	881.7	881.3	880.8	880.3	879.8	879.4
152.5°	897.7	897.2	897.0	896.8	896.6	896.4	896.2	895.9	895.7	895.5	895.2
155°	917.7	916.9	916.7	916.6	916.4	916.2	916.3	916.6	917.0	917.3	917.6
157.5°	935.1	934.1	934.3	934.4	934.6	934.8	934.9	934.9	934.9	935.0	935.0
160°	945.1	944.1	944.3	944.4	944.6	944.8	944.9	945.1	945.3	945.4	945.6
162.5°	954.1	952.9	953.1	953.3	953.4	953.6	953.9	954.3	954.7	955.2	955.6
165°	966.0	964.7	964.9	965.0	965.2	965.4	965.7	966.2	966.7	967.2	967.7
167.5°	975.4	974.1	974.1	974.1	974.1	974.1	974.5	975.1	975.8	976.4	977.1
170°	980.7	979.4	979.4	979.4	979.4	979.4	979.8	980.4	981.1	981.7	982.4
172.5°	984.3	983.0	982.8	982.7	982.6	982.4	982.8	983.6	984.3	985.1	985.9
175°	988.7	987.5	987.4	987.2	987.0	986.9	987.2	988.0	988.8	989.6	990.5
177.5°	990.3	989.3	989.2	989.0	988.9	988.8	989.0	989.7	990.3	991.0	991.6
180°	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5



TEST NUMBER: P332474

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

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	12.1	12.5	11.7	12.7	11.9	11.7	12.5	11.3
90°	2.4	4.0	5.6	7.3	9.2	11.3	13.4	15.5	17.7	18.3	19.0
92.5°	13.2	12.8	12.3	11.9	12.4	14.0	15.6	17.2	18.8	19.9	20.9
95°	38.2	31.5	24.8	18.1	15.6	17.4	19.2	21.0	22.8	24.0	25.1
97.5°	87.2	84.2	81.2	78.2	70.8	59.0	47.2	35.5	23.7	25.0	26.3
100°	127.6	130.9	134.2	137.4	126.3	100.8	75.3	49.8	24.3	25.6	26.9
102.5°	165.6	167.9	170.3	172.6	159.9	132.0	104.1	76.3	48.4	44.4	40.3
105°	221.1	222.9	224.7	226.5	220.0	205.3	190.6	175.9	161.2	132.2	103.3
107.5°	279.9	281.3	282.8	284.2	286.1	288.4	290.7	293.1	295.4	274.1	252.9
110°	319.2	320.5	321.8	323.1	324.7	326.5	328.3	330.1	331.9	326.5	321.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	356.7	357.9	359.1	360.3	361.8	363.6	365.4	367.2	369.0	369.1	369.2
115°	412.3	413.3	414.3	415.3	416.5	418.0	419.4	420.9	422.4	424.0	425.7
117.5°	466.6	467.8	469.0	470.2	471.2	471.9	472.7	473.4	474.2	475.5	476.8
120°	500.4	501.9	503.3	504.8	505.8	506.3	506.8	507.3	507.7	509.1	510.4
122.5°	534.3	535.5	536.7	537.9	538.8	539.4	540.1	540.7	541.3	542.2	543.1
125°	581.2	582.5	583.8	585.1	586.1	586.7	587.4	588.0	588.7	589.0	589.3
127.5°	626.5	627.8	629.1	630.4	631.5	632.3	633.0	633.8	634.6	635.1	635.7
130°	654.8	656.1	657.4	658.7	659.7	660.3	661.0	661.6	662.3	662.9	663.6
132.5°	681.8	683.1	684.4	685.8	686.7	687.2	687.7	688.2	688.8	689.4	690.1
135°	722.9	723.8	724.8	725.8	726.6	727.3	727.9	728.6	729.2	729.7	730.2
137.5°	758.4	759.7	760.9	762.2	763.0	763.3	763.7	764.1	764.4	765.2	766.0
140°	781.7	782.7	783.7	784.7	785.4	785.9	786.4	786.9	787.4	788.0	788.7
142.5°	803.5	804.5	805.5	806.5	807.2	807.7	808.2	808.7	809.2	809.7	810.2
145°	834.1	835.3	836.4	837.6	838.3	838.6	839.0	839.3	839.6	839.9	840.3
147.5°	862.4	863.2	863.9	864.7	865.2	865.6	865.9	866.2	866.5	866.9	867.2
150°	879.8	880.3	880.8	881.3	881.7	882.1	882.4	882.7	883.0	883.4	883.7
152.5°	895.5	895.7	895.9	896.2	896.4	896.6	896.8	897.0	897.2	897.7	898.3
155°	917.3	917.0	916.6	916.3	916.2	916.4	916.6	916.7	916.9	917.7	918.5
157.5°	935.0	934.9	934.9	934.9	934.8	934.6	934.4	934.3	934.1	935.1	936.1
160°	945.4	945.3	945.1	944.9	944.8	944.6	944.4	944.3	944.1	945.1	946.1
162.5°	955.2	954.7	954.3	953.9	953.6	953.4	953.3	953.1	952.9	954.1	955.2
165°	967.2	966.7	966.2	965.7	965.4	965.2	965.0	964.9	964.7	966.0	967.3
167.5°	976.4	975.8	975.1	974.5	974.1	974.1	974.1	974.1	974.1	975.4	976.7
170°	981.7	981.1	980.4	979.8	979.4	979.4	979.4	979.4	979.4	980.7	982.0
172.5°	985.1	984.3	983.6	982.8	982.4	982.6	982.7	982.8	983.0	984.3	985.6
175°	989.6	988.8	988.0	987.2	986.9	987.0	987.2	987.4	987.5	988.7	989.8
177.5°	991.0	990.3	989.7	989.0	988.8	988.9	989.0	989.2	989.3	990.3	991.4
180°	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5



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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	11.1	10.6	11.9	10.7
90°	19.6	20.3	20.8	21.1	21.4	21.7	22.1
92.5°	22.0	23.0	23.6	23.8	24.0	24.2	24.4
95°	26.2	27.4	28.0	28.0	28.0	28.0	28.0
97.5°	27.6	28.9	29.7	29.8	30.0	30.2	30.3
100°	28.2	29.5	30.3	30.4	30.6	30.7	30.9
102.5°	36.3	32.2	30.3	30.6	30.9	31.2	31.5
105°	74.3	45.4	31.1	31.4	31.7	32.1	32.4
107.5°	231.7	210.5	189.0	167.1	145.3	123.5	101.7
110°	315.7	310.3	295.9	272.5	249.1	225.7	202.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	369.3	369.4	366.9	362.0	357.1	352.1	347.2
115°	427.3	428.9	430.1	430.7	431.4	432.0	432.7
117.5°	478.1	479.4	480.1	480.3	480.4	480.5	480.7
120°	511.7	513.0	513.6	513.6	513.6	513.6	513.6
122.5°	544.0	545.0	545.5	545.6	545.7	545.9	546.0
125°	589.7	590.0	590.3	590.7	591.0	591.3	591.6
127.5°	636.2	636.7	636.8	636.5	636.1	635.8	635.5
130°	664.2	664.9	665.1	664.7	664.4	664.1	663.7
132.5°	690.7	691.4	691.5	691.0	690.6	690.1	689.6
135°	730.7	731.2	731.2	730.7	730.2	729.7	729.2
137.5°	766.8	767.6	767.8	767.5	767.1	766.8	766.5
140°	789.3	790.0	790.2	789.8	789.5	789.2	788.8
142.5°	810.7	811.2	811.3	810.8	810.4	809.9	809.4
145°	840.6	840.9	841.1	841.1	841.1	841.1	841.1
147.5°	867.5	867.9	867.6	866.9	866.1	865.4	864.6
150°	884.0	884.3	884.3	883.8	883.3	882.8	882.3
152.5°	898.9	899.5	899.4	898.7	897.9	897.2	896.4
155°	919.3	920.2	920.1	919.1	918.1	917.1	916.1
157.5°	937.0	938.0	937.9	936.6	935.3	934.1	932.8
160°	947.1	948.0	948.0	946.8	945.7	944.5	943.4
162.5°	956.3	957.4	957.4	956.4	955.4	954.4	953.4
165°	968.6	969.9	970.0	968.9	967.7	966.6	965.4
167.5°	978.1	979.4	979.4	978.1	976.7	975.4	974.1
170°	983.4	984.7	984.7	983.4	982.0	980.7	979.4
172.5°	986.9	988.2	988.1	986.7	985.3	983.8	982.4
175°	991.0	992.1	992.0	990.7	989.4	988.1	986.8
177.5°	992.4	993.5	993.3	992.0	990.7	989.4	988.1
180°	990.5	990.5	990.5	990.5	990.5	990.5	990.5

(END OF REPORT)