

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: P332372-830

Luminaire Tested: **S123RDIP-S1165D805U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332372-830
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: S123RDIP-S1165D805U830-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 805 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7336.1 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

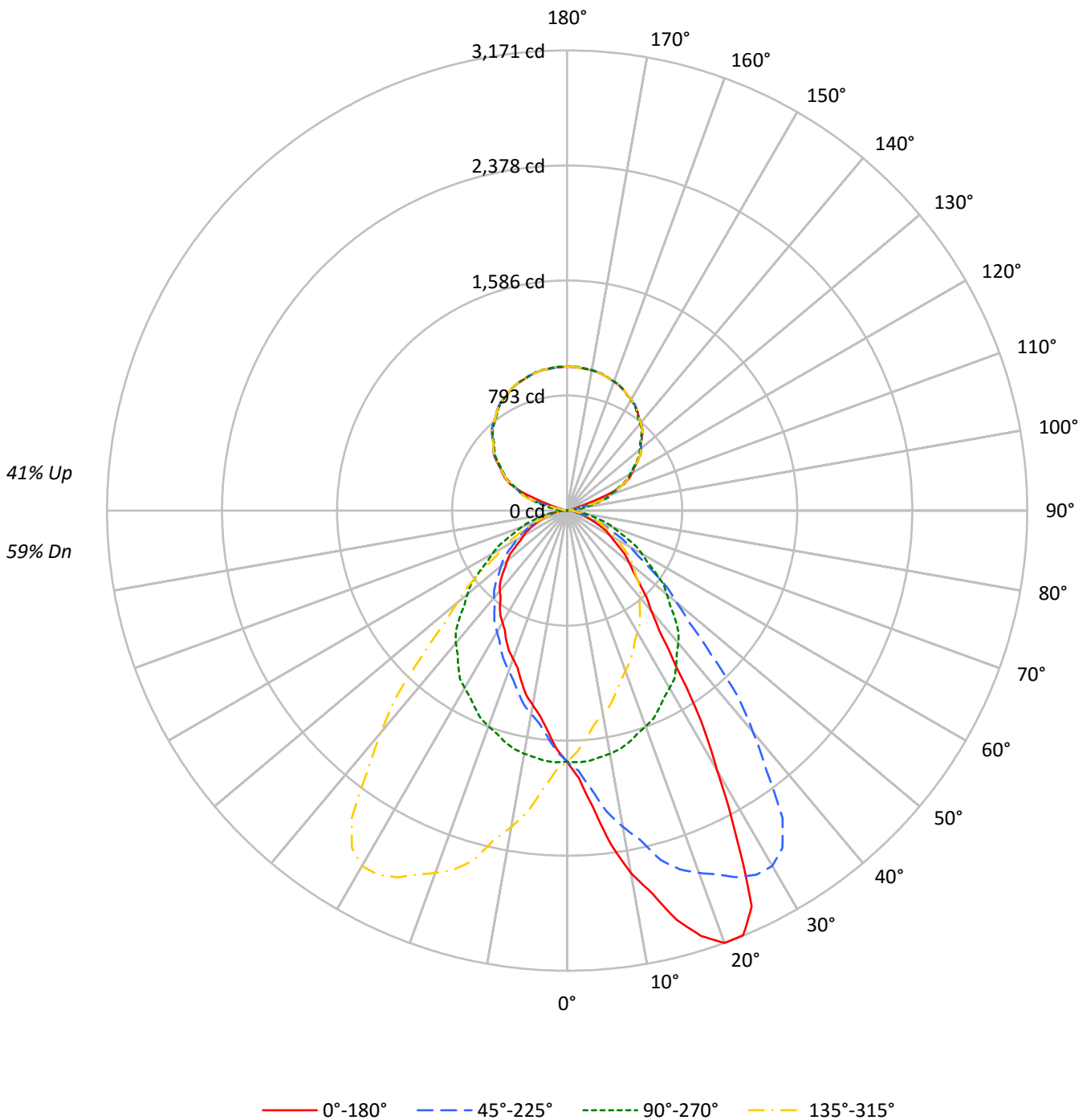
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	93	89	94	90	87	84	78	76	74	68	66	64	58	57	56	51
2	92	85	79	74	86	80	74	70	70	66	62	60	57	55	52	50	48	44
3	84	75	68	63	79	71	64	59	62	57	53	54	50	47	46	44	42	38
4	78	67	59	54	72	63	56	51	56	50	46	48	44	41	42	39	36	33
5	71	60	52	46	67	57	50	44	50	44	40	44	39	36	38	35	32	29
6	66	54	46	41	62	51	44	39	45	40	35	40	35	32	35	31	29	26
7	61	49	41	36	57	46	39	34	41	36	31	36	32	28	32	28	26	23
8	57	45	37	32	53	42	36	31	38	32	28	34	29	26	29	26	23	21
9	53	41	34	29	50	39	32	28	35	29	25	31	26	23	27	24	21	19
10	50	38	31	26	47	36	29	25	32	27	23	29	24	21	25	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	18627	18627	18627	18627
5°	22204	18707	16473	18707
10°	27725	18600	14882	18600
15°	32543	18409	13572	18409
20°	36318	18125	12457	18125
25°	35739	17826	11772	17826
30°	25690	17550	11067	17550
35°	17152	17190	10611	17190
40°	12638	16759	10138	16759
45°	10601	16002	9677	16002
50°	9354	15011	9031	15011
55°	8203	13874	8146	13874
60°	7304	12790	7464	12790
65°	6413	11624	6943	11624
70°	5035	10584	6342	10584
75°	4438	9245	5793	9245
80°	3856	7854	5697	7854
85°	3112	6311	6039	6311



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.2	2.3
10°-20°	531.7	7.2
20°-30°	835.3	11.4
30°-40°	871.4	11.9
40°-50°	745.8	10.2
50°-60°	568.4	7.7
60°-70°	364.3	5.0
70°-80°	175.3	2.4
80°-90°	49.2	0.7
90°-100°	36.1	0.5
100°-110°	171.9	2.3
110°-120°	412.8	5.6
120°-130°	525.7	7.2
130°-140°	561.7	7.7
140°-150°	525.2	7.2
150°-160°	423.7	5.8
160°-170°	273.4	3.7
170°-180°	94.2	1.3
0°-30°	1537.1	21.0
0°-40°	2408.6	32.8
0°-60°	3722.7	50.7
0°-90°	4311.5	58.8
90°-120°	620.7	8.5
90°-150°	2233.3	30.4
90°-180°	3025.0	41.2
0°-180°	7336.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1730	1730	1730	1730	1730	
5°	2055	1731	1525	1731	2055	212
15°	2920	1652	1218	1652	2920	828
25°	3009	1501	991	1501	3009	1293
35°	1305	1308	808	1308	1305	856
45°	696	1051	636	1051	696	548
55°	437	739	434	739	437	395
65°	252	456	273	456	252	248
75°	107	222	139	222	107	114
85°	25	51	49	51	25	29
90°	22	1	22	1	22	11
95°	28	45	28	45	28	23
105°	32	220	32	220	32	74
115°	433	412	433	412	433	400
125°	592	581	592	581	592	529
135°	730	723	730	723	730	563
145°	842	834	842	834	842	526
155°	917	919	917	919	917	423
165°	967	969	967	969	967	273
175°	988	992	988	992	988	94
180°	992	992	992	992	992	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5
2.5°	1843.1	1845.5	1837.8	1836.6	1827.7	1825.3	1825.3	1812.9	1805.2	1795.2	1789.2
5°	2055.0	2066.9	2061.0	2047.6	2025.3	2020.2	2006.1	1983.9	1958.7	1927.6	1912.8
7.5°	2319.6	2335.8	2329.6	2308.9	2285.7	2266.9	2227.1	2190.3	2138.5	2093.2	2054.4
10°	2536.6	2519.5	2506.1	2486.1	2464.7	2429.9	2388.4	2331.3	2265.4	2213.6	2155.8
12.5°	2698.9	2696.1	2679.2	2658.6	2628.3	2595.2	2544.2	2474.7	2398.1	2323.2	2257.1
15°	2920.3	2924.7	2913.6	2892.1	2849.1	2790.6	2713.6	2684.7	2575.0	2493.6	2412.1
17.5°	3073.4	3072.6	3071.1	3041.3	2997.5	2955.8	2884.4	2808.4	2709.2	2594.3	2484.5
20°	3170.6	3163.3	3164.8	3131.4	3098.8	3050.6	2981.0	2870.6	2789.2	2656.6	2543.2
22.5°	3168.3	3166.8	3172.4	3161.0	3137.3	3100.4	3045.6	2952.4	2848.5	2714.6	2587.1
25°	3009.2	3003.2	3038.1	3047.7	3085.5	3092.1	3075.8	3024.7	2926.2	2788.4	2630.6
27.5°	2518.5	2515.2	2579.8	2660.7	2763.3	2842.9	2920.0	2957.1	2926.2	2827.5	2669.5
30°	2066.9	2136.5	2169.1	2286.1	2416.5	2572.1	2708.4	2838.0	2869.9	2827.0	2697.3
32.5°	1716.0	1776.8	1804.0	1904.5	2026.0	2208.2	2412.6	2596.2	2725.9	2758.7	2680.7
35°	1305.3	1306.1	1368.3	1412.7	1525.3	1712.8	1911.3	2157.2	2401.7	2586.9	2606.1
37.5°	1041.6	1045.3	1082.9	1127.2	1211.6	1310.8	1485.6	1690.1	1972.5	2256.8	2423.5
40°	899.4	906.0	934.2	977.9	1038.6	1113.4	1249.7	1442.4	1677.9	1994.2	2252.8
42.5°	808.0	818.9	833.4	867.0	904.7	974.8	1085.0	1233.8	1448.0	1747.1	2045.4
45°	696.4	702.3	713.4	729.0	763.0	811.9	886.0	986.0	1163.9	1404.6	1703.1
47.5°	614.3	611.1	622.8	635.5	658.2	691.4	741.1	822.7	949.6	1142.7	1396.0
50°	558.6	557.8	566.0	575.6	597.1	621.5	662.3	723.8	824.5	984.6	1216.4
52.5°	506.4	509.3	515.0	527.0	542.5	562.3	598.9	643.2	729.7	867.8	1061.1
55°	437.1	439.3	447.4	454.1	465.2	485.2	508.2	545.3	604.5	700.8	860.1
57.5°	378.4	377.4	385.2	386.8	399.4	415.8	433.5	462.2	505.2	576.8	684.1
60°	339.3	337.1	343.7	348.9	355.6	368.9	383.7	411.9	446.0	498.6	590.4
62.5°	303.7	302.7	307.6	312.7	318.3	330.4	342.8	364.5	391.4	435.7	508.6
65°	251.8	254.1	256.3	258.5	261.5	268.9	280.8	295.6	314.1	345.3	397.8
67.5°	197.9	200.2	201.0	205.5	211.9	216.5	223.8	237.0	249.8	276.1	305.9
70°	160.0	159.3	160.0	162.2	170.4	178.5	188.1	197.8	205.9	224.4	249.7
72.5°	137.5	136.2	138.1	138.6	142.5	144.8	150.8	159.9	170.4	182.9	201.0
75°	106.7	106.7	106.7	106.7	109.6	111.1	113.4	115.6	119.2	125.2	138.6
77.5°	78.8	79.0	80.0	80.8	81.3	82.2	83.6	85.8	87.1	90.2	96.0
80°	62.2	63.0	62.2	63.0	63.0	64.5	65.2	67.4	68.1	71.8	74.1
82.5°	46.8	46.4	46.8	47.6	47.6	49.0	49.2	50.8	51.0	52.9	55.1
85°	25.2	23.8	25.2	24.4	25.9	24.4	25.2	26.7	26.7	27.4	30.3
87.5°	10.4	11.5	10.2	10.7	10.7	11.2	11.0	10.9	12.0	11.2	11.4
90°	22.1	21.8	21.5	21.1	20.8	20.3	19.6	19.0	18.4	17.7	15.6
92.5°	24.5	24.2	24.0	23.8	23.7	23.1	22.0	20.9	19.9	18.9	17.2
95°	28.0	28.0	28.0	28.0	28.0	27.4	26.3	25.2	24.0	22.8	21.0
97.5°	30.3	30.2	30.1	29.9	29.7	28.9	27.6	26.4	25.1	23.8	35.5
100°	30.9	30.8	30.6	30.4	30.3	29.6	28.3	27.0	25.6	24.3	49.9
102.5°	31.6	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	31.8	31.5	31.1	45.4	74.5	103.4	132.4	161.4	176.1
107.5°	101.8	123.7	145.5	167.4	189.2	210.8	232.1	253.3	274.6	295.8	293.4
110°	202.6	226.0	249.5	272.9	296.3	310.8	316.1	321.5	327.0	332.3	330.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	347.7	352.6	357.5	362.5	367.4	369.9	369.8	369.7	369.6	369.5	367.7
115°	433.3	432.6	432.0	431.3	430.6	429.5	427.9	426.2	424.6	423.0	421.5
117.5°	481.4	481.2	481.1	481.0	480.8	480.0	478.8	477.5	476.2	474.9	474.1
120°	514.3	514.3	514.3	514.3	514.3	513.7	512.4	511.0	509.7	508.4	507.9
122.5°	546.8	546.7	546.5	546.4	546.2	545.7	544.8	543.8	543.0	542.1	541.4
125°	592.5	592.1	591.8	591.4	591.2	590.8	590.5	590.1	589.8	589.5	588.8
127.5°	636.4	636.7	637.1	637.3	637.6	637.5	637.1	636.5	636.0	635.5	634.7
130°	664.7	665.0	665.3	665.6	666.0	665.8	665.2	664.5	663.8	663.2	662.5
132.5°	690.6	691.1	691.5	692.0	692.4	692.3	691.6	691.0	690.4	689.8	689.2
135°	730.3	730.8	731.2	731.7	732.2	732.2	731.7	731.2	730.8	730.3	729.6
137.5°	767.5	767.9	768.2	768.5	768.8	768.6	767.8	767.0	766.3	765.4	765.1
140°	789.9	790.2	790.6	790.9	791.3	791.1	790.4	789.8	789.1	788.4	788.0
142.5°	810.6	811.1	811.4	811.9	812.4	812.4	811.8	811.3	810.8	810.3	809.7
145°	842.3	842.3	842.3	842.3	842.3	842.1	841.8	841.4	841.1	840.7	840.5
147.5°	865.8	866.6	867.3	868.1	868.8	869.0	868.7	868.4	868.1	867.7	867.4
150°	883.5	884.0	884.5	885.0	885.5	885.5	885.2	884.9	884.6	884.3	883.9
152.5°	897.7	898.4	899.2	899.9	900.7	900.8	900.1	899.6	899.0	898.4	898.2
155°	917.4	918.4	919.4	920.4	921.3	921.4	920.6	919.8	919.0	918.1	917.9
157.5°	934.1	935.4	936.6	937.9	939.1	939.3	938.3	937.4	936.4	935.4	935.6
160°	944.7	945.8	947.0	948.1	949.2	949.3	948.4	947.3	946.4	945.4	945.6
162.5°	954.7	955.7	956.7	957.7	958.8	958.7	957.6	956.5	955.4	954.2	954.4
165°	966.8	967.9	969.0	970.3	971.4	971.3	970.0	968.7	967.3	966.0	966.2
167.5°	975.4	976.8	978.1	979.4	980.7	980.7	979.4	978.1	976.8	975.4	975.4
170°	980.8	982.1	983.4	984.7	986.0	986.0	984.7	983.4	982.1	980.8	980.8
172.5°	983.7	985.1	986.7	988.1	989.5	989.6	988.3	986.9	985.6	984.3	984.2
175°	988.2	989.5	990.8	992.1	993.3	993.4	992.3	991.2	990.0	988.9	988.7
177.5°	989.5	990.8	992.1	993.4	994.8	994.9	993.8	992.8	991.7	990.6	990.5
180°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5
2.5°	1786.9	1785.1	1776.8	1767.3	1754.8	1746.5	1740.0	1736.4	1725.8	1712.8	1703.8
5°	1897.2	1875.0	1851.2	1822.4	1795.7	1768.3	1751.2	1731.3	1706.9	1679.4	1660.2
7.5°	2015.4	1971.9	1925.0	1876.5	1828.6	1785.6	1747.8	1715.2	1676.3	1637.0	1609.5
10°	2106.1	2042.4	1976.5	1909.0	1847.6	1789.8	1745.3	1701.7	1655.0	1609.8	1575.7
12.5°	2188.5	2104.6	2028.6	1945.8	1867.2	1798.1	1734.1	1682.6	1626.5	1578.4	1539.5
15°	2292.8	2206.9	2115.0	1989.0	1884.6	1797.2	1719.4	1652.0	1583.8	1524.6	1486.8
17.5°	2390.3	2261.0	2137.5	2032.5	1896.8	1787.5	1692.6	1612.0	1537.2	1474.3	1427.9
20°	2430.6	2305.4	2171.3	2037.2	1903.8	1781.7	1671.2	1582.3	1504.6	1433.4	1390.5
22.5°	2454.9	2313.1	2171.9	2027.8	1886.1	1759.2	1649.9	1552.2	1467.8	1400.2	1347.3
25°	2483.2	2314.3	2158.7	2016.5	1872.0	1734.3	1604.6	1500.9	1409.8	1337.9	1281.6
27.5°	2501.9	2303.2	2119.3	1961.2	1814.7	1677.4	1558.7	1448.7	1356.3	1280.3	1219.8
30°	2505.4	2294.2	2089.1	1918.0	1769.1	1643.1	1517.2	1412.0	1314.2	1233.4	1177.1
32.5°	2510.2	2272.4	2048.1	1866.4	1713.9	1589.2	1475.1	1374.6	1274.5	1195.0	1137.5
35°	2490.6	2260.2	1986.1	1777.2	1624.6	1503.8	1400.9	1308.2	1209.8	1132.7	1074.2
37.5°	2406.4	2212.1	1921.8	1676.8	1517.2	1405.3	1321.4	1240.7	1150.4	1067.2	1012.1
40°	2321.7	2164.6	1872.0	1615.7	1449.1	1334.2	1258.7	1192.7	1105.3	1027.5	968.3
42.5°	2195.5	2100.1	1824.6	1551.7	1372.0	1261.3	1197.6	1135.8	1059.0	980.1	924.4
45°	1963.9	1976.5	1727.6	1449.7	1265.3	1154.1	1094.2	1051.2	983.1	917.8	860.8
47.5°	1673.5	1791.3	1613.6	1341.1	1152.8	1048.6	996.1	958.6	912.7	848.7	796.6
50°	1483.8	1652.0	1522.4	1268.3	1082.3	978.6	926.7	896.4	856.4	806.0	756.4
52.5°	1309.0	1489.6	1412.1	1187.0	1005.9	911.1	860.4	835.4	803.6	756.2	711.3
55°	1067.5	1250.5	1232.8	1064.5	891.2	806.0	767.5	739.3	717.8	682.3	646.8
57.5°	863.5	1037.0	1046.1	928.2	790.1	706.0	672.8	651.6	637.5	610.8	577.9
60°	734.9	894.2	925.3	836.4	717.8	643.8	611.1	594.1	583.1	561.6	536.3
62.5°	628.2	763.7	799.0	735.0	648.5	579.2	553.6	537.2	529.7	511.1	488.9
65°	480.8	593.4	627.5	591.9	546.7	491.2	470.4	456.4	449.7	439.3	423.0
67.5°	361.6	443.6	481.0	455.9	439.6	404.4	391.2	383.7	377.8	370.7	357.0
70°	290.4	351.1	389.6	383.0	369.7	351.1	341.5	336.3	330.4	324.5	312.6
72.5°	233.5	275.3	311.4	314.8	303.9	300.2	291.7	289.5	286.0	278.8	272.3
75°	154.9	183.7	208.9	218.6	223.0	226.7	223.0	222.3	221.5	215.6	211.9
77.5°	101.5	117.1	132.9	149.4	156.3	161.4	162.5	165.2	163.2	160.1	158.3
80°	77.8	81.5	92.6	106.7	117.8	122.2	125.2	126.7	125.9	125.2	122.2
82.5°	56.5	59.6	64.8	74.6	84.0	91.4	93.2	92.9	94.5	95.0	92.6
85°	30.3	31.1	32.6	34.1	39.3	47.4	49.7	51.1	52.6	52.6	48.2
87.5°	12.2	11.1	11.9	11.5	13.0	13.3	16.5	19.1	20.1	18.0	18.3
90°	13.4	11.3	9.1	7.3	5.7	4.1	2.4	0.8	2.4	4.1	5.7
92.5°	15.6	14.0	12.4	11.9	12.3	12.8	13.3	13.7	13.3	12.8	12.3
95°	19.2	17.4	15.6	18.1	24.8	31.5	38.3	45.0	38.3	31.5	24.8
97.5°	47.3	59.1	70.9	78.3	81.3	84.4	87.4	90.3	87.4	84.4	81.3
100°	75.4	100.9	126.5	137.6	134.3	131.1	127.8	124.5	127.8	131.1	134.3
102.5°	104.2	132.2	160.1	172.9	170.5	168.1	165.8	163.4	165.8	168.1	170.5
105°	190.9	205.6	220.4	226.8	225.0	223.2	221.4	219.6	221.4	223.2	225.0
107.5°	291.2	288.8	286.4	284.6	283.1	281.7	280.3	278.8	280.3	281.7	283.1
110°	328.8	327.0	325.1	323.6	322.3	320.9	319.6	318.3	319.6	320.9	322.3



TEST NUMBER: P332372-830

CATALOG NUMBER: S123RDIP-S1165D805U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	365.9	364.1	362.2	360.8	359.6	358.4	357.2	356.1	357.2	358.4	359.6
115°	420.0	418.6	417.1	415.8	414.9	413.9	412.9	411.9	412.9	413.9	414.9
117.5°	473.3	472.6	471.8	470.8	469.7	468.4	467.2	466.0	467.2	468.4	469.7
120°	507.5	507.0	506.5	505.5	504.0	502.6	501.1	499.6	501.1	502.6	504.0
122.5°	540.8	540.2	539.5	538.7	537.4	536.2	535.0	533.8	535.0	536.2	537.4
125°	588.1	587.6	586.9	585.9	584.6	583.2	581.9	580.7	581.9	583.2	584.6
127.5°	634.0	633.1	632.4	631.3	630.0	628.7	627.4	626.0	627.4	628.7	630.0
130°	661.9	661.2	660.5	659.6	658.3	657.0	655.6	654.3	655.6	657.0	658.3
132.5°	688.6	688.2	687.6	686.7	685.4	684.1	682.8	681.5	682.8	684.1	685.4
135°	729.0	728.3	727.6	726.8	725.9	724.8	723.9	722.8	723.9	724.8	725.9
137.5°	764.8	764.4	764.0	763.2	762.0	760.7	759.5	758.3	759.5	760.7	762.0
140°	787.5	787.0	786.5	785.8	784.8	783.8	782.8	781.8	782.8	783.8	784.8
142.5°	809.3	808.8	808.3	807.6	806.6	805.6	804.6	803.6	804.6	805.6	806.6
145°	840.1	839.8	839.4	838.8	837.5	836.4	835.3	834.2	835.3	836.4	837.5
147.5°	867.0	866.8	866.5	865.9	865.2	864.4	863.7	862.9	863.7	864.4	865.2
150°	883.6	883.3	883.0	882.5	882.0	881.6	881.1	880.5	881.1	881.6	882.0
152.5°	898.0	897.8	897.6	897.4	897.2	896.9	896.7	896.5	896.7	896.9	897.2
155°	917.8	917.7	917.5	917.6	917.9	918.2	918.6	918.9	918.6	918.2	917.9
157.5°	935.8	935.9	936.0	936.1	936.1	936.2	936.2	936.2	936.2	936.2	936.1
160°	945.7	945.9	946.0	946.2	946.4	946.6	946.7	946.9	946.7	946.6	946.4
162.5°	954.6	954.7	954.9	955.2	955.6	956.0	956.5	956.9	956.5	956.0	955.6
165°	966.4	966.6	966.7	967.0	967.5	968.0	968.5	969.0	968.5	968.0	967.5
167.5°	975.4	975.4	975.4	975.8	976.5	977.1	977.8	978.5	977.8	977.1	976.5
170°	980.8	980.8	980.8	981.1	981.8	982.4	983.1	983.7	983.1	982.4	981.8
172.5°	984.0	983.9	983.8	984.1	984.9	985.7	986.5	987.2	986.5	985.7	984.9
175°	988.5	988.4	988.3	988.5	989.4	990.2	991.0	991.8	991.0	990.2	989.4
177.5°	990.4	990.2	990.1	990.4	991.1	991.7	992.4	993.0	992.4	991.7	991.1
180°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8



TEST NUMBER: P332372-830

CATALOG NUMBER: S123RDIP-S1165D805U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5
2.5°	1700.9	1693.2	1687.9	1676.0	1668.3	1660.0	1651.7	1657.1	1656.4	1655.9	1655.9
5°	1643.9	1626.8	1611.3	1591.3	1578.7	1563.1	1551.2	1549.7	1552.7	1542.4	1536.4
7.5°	1587.2	1564.0	1541.9	1519.8	1496.5	1477.8	1466.0	1460.6	1453.0	1446.6	1440.0
10°	1547.6	1520.1	1498.6	1471.2	1446.0	1423.8	1409.8	1400.1	1395.0	1389.8	1380.2
12.5°	1506.7	1479.9	1452.5	1421.4	1397.5	1371.7	1361.1	1350.4	1340.4	1334.6	1321.4
15°	1446.8	1412.0	1383.1	1350.5	1323.8	1298.6	1283.8	1262.3	1259.3	1252.0	1238.6
17.5°	1386.8	1349.0	1309.2	1285.0	1254.9	1228.7	1206.2	1198.9	1177.7	1169.7	1158.2
20°	1339.4	1304.6	1274.2	1242.4	1198.6	1174.2	1156.4	1146.8	1129.7	1119.4	1111.9
22.5°	1298.4	1263.1	1227.9	1190.8	1154.8	1127.4	1114.4	1099.4	1090.1	1075.5	1067.5
25°	1240.1	1201.6	1159.3	1119.4	1093.4	1072.7	1052.0	1038.6	1025.3	1018.6	1003.8
27.5°	1172.2	1132.0	1092.5	1062.2	1030.3	1009.8	991.1	979.2	963.2	952.0	943.8
30°	1134.9	1087.5	1053.4	1026.1	985.2	966.0	952.0	937.2	925.3	913.4	905.3
32.5°	1091.7	1048.4	1016.1	982.1	950.9	929.8	911.6	898.6	888.5	877.2	869.1
35°	1023.8	987.5	954.1	920.1	897.1	875.6	854.1	843.0	833.4	823.0	815.7
37.5°	962.4	928.5	896.8	864.5	836.0	818.6	801.3	792.8	779.8	772.8	765.3
40°	924.5	891.2	857.1	826.0	796.4	783.1	767.5	754.9	743.0	737.8	729.7
42.5°	883.1	849.7	821.0	787.5	763.2	745.1	730.8	717.0	708.0	700.5	695.9
45°	821.5	791.9	763.7	730.5	707.5	691.9	675.6	663.0	654.9	649.7	641.5
47.5°	761.9	732.3	703.6	674.6	652.3	634.6	618.3	609.5	598.7	592.4	586.8
50°	718.6	691.9	661.6	634.9	612.7	594.8	581.5	570.4	560.8	552.6	548.9
52.5°	678.9	650.4	624.2	599.3	575.9	555.7	543.6	531.9	524.6	515.3	511.0
55°	613.4	586.0	563.7	539.3	516.3	499.3	484.5	474.1	466.7	456.4	450.4
57.5°	551.9	527.4	500.8	479.6	455.9	441.5	429.2	415.2	406.1	397.9	392.2
60°	510.4	482.3	459.3	439.3	418.6	400.0	388.9	377.8	368.2	360.1	354.9
62.5°	467.1	442.5	420.8	399.0	380.0	363.9	351.0	341.7	333.2	328.0	322.8
65°	400.8	381.5	359.3	341.5	323.8	311.9	301.5	293.3	287.5	283.7	279.3
67.5°	339.7	321.0	301.6	284.2	272.3	263.3	256.5	249.5	246.6	241.8	238.8
70°	300.0	280.8	263.7	250.4	238.6	231.9	227.4	222.3	219.2	213.4	210.4
72.5°	256.7	242.8	230.5	219.6	210.1	204.1	198.4	192.0	187.3	180.8	177.8
75°	202.3	189.6	180.0	172.6	166.6	158.5	150.4	143.7	141.5	139.3	138.6
77.5°	149.8	141.8	134.8	128.6	121.2	115.3	113.5	112.0	111.6	110.4	110.4
80°	117.8	110.4	105.2	97.7	93.3	93.3	93.3	91.9	92.6	92.6	92.6
82.5°	87.6	80.8	77.9	75.3	74.4	74.9	74.9	75.3	74.8	76.0	75.4
85°	45.1	45.9	47.4	46.7	47.4	47.4	48.9	48.2	48.9	47.4	48.9
87.5°	18.1	20.2	21.2	22.2	23.3	23.1	23.8	23.9	24.7	24.8	24.9
90°	7.3	9.1	11.3	13.4	15.6	17.7	18.4	19.0	19.6	20.3	20.8
92.5°	11.9	12.4	14.0	15.6	17.2	18.9	19.9	20.9	22.0	23.1	23.7
95°	18.1	15.6	17.4	19.2	21.0	22.8	24.0	25.2	26.3	27.4	28.0
97.5°	78.3	70.9	59.1	47.3	35.5	23.8	25.1	26.4	27.6	28.9	29.7
100°	137.6	126.5	100.9	75.4	49.9	24.3	25.6	27.0	28.3	29.6	30.3
102.5°	172.9	160.1	132.2	104.2	76.3	48.4	44.4	40.3	36.3	32.2	30.3
105°	226.8	220.4	205.6	190.9	176.1	161.4	132.4	103.4	74.5	45.4	31.1
107.5°	284.6	286.4	288.8	291.2	293.4	295.8	274.6	253.3	232.1	210.8	189.2
110°	323.6	325.1	327.0	328.8	330.5	332.3	327.0	321.5	316.1	310.8	296.3



TEST NUMBER: P332372-830

CATALOG NUMBER: S123RDIP-S1165D805U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	360.8	362.2	364.1	365.9	367.7	369.5	369.6	369.7	369.8	369.9	367.4
115°	415.8	417.1	418.6	420.0	421.5	423.0	424.6	426.2	427.9	429.5	430.6
117.5°	470.8	471.8	472.6	473.3	474.1	474.9	476.2	477.5	478.8	480.0	480.8
120°	505.5	506.5	507.0	507.5	507.9	508.4	509.7	511.0	512.4	513.7	514.3
122.5°	538.7	539.5	540.2	540.8	541.4	542.1	543.0	543.8	544.8	545.7	546.2
125°	585.9	586.9	587.6	588.1	588.8	589.5	589.8	590.1	590.5	590.8	591.2
127.5°	631.3	632.4	633.1	634.0	634.7	635.5	636.0	636.5	637.1	637.5	637.6
130°	659.6	660.5	661.2	661.9	662.5	663.2	663.8	664.5	665.2	665.8	666.0
132.5°	686.7	687.6	688.2	688.6	689.2	689.8	690.4	691.0	691.6	692.3	692.4
135°	726.8	727.6	728.3	729.0	729.6	730.3	730.8	731.2	731.7	732.2	732.2
137.5°	763.2	764.0	764.4	764.8	765.1	765.4	766.3	767.0	767.8	768.6	768.8
140°	785.8	786.5	787.0	787.5	788.0	788.4	789.1	789.8	790.4	791.1	791.3
142.5°	807.6	808.3	808.8	809.3	809.7	810.3	810.8	811.3	811.8	812.4	812.4
145°	838.8	839.4	839.8	840.1	840.5	840.7	841.1	841.4	841.8	842.1	842.3
147.5°	865.9	866.5	866.8	867.0	867.4	867.7	868.1	868.4	868.7	869.0	868.8
150°	882.5	883.0	883.3	883.6	883.9	884.3	884.6	884.9	885.2	885.5	885.5
152.5°	897.4	897.6	897.8	898.0	898.2	898.4	899.0	899.6	900.1	900.8	900.7
155°	917.6	917.5	917.7	917.8	917.9	918.1	919.0	919.8	920.6	921.4	921.3
157.5°	936.1	936.0	935.9	935.8	935.6	935.4	936.4	937.4	938.3	939.3	939.1
160°	946.2	946.0	945.9	945.7	945.6	945.4	946.4	947.3	948.4	949.3	949.2
162.5°	955.2	954.9	954.7	954.6	954.4	954.2	955.4	956.5	957.6	958.7	958.8
165°	967.0	966.7	966.6	966.4	966.2	966.0	967.3	968.7	970.0	971.3	971.4
167.5°	975.8	975.4	975.4	975.4	975.4	975.4	976.8	978.1	979.4	980.7	980.7
170°	981.1	980.8	980.8	980.8	980.8	980.8	982.1	983.4	984.7	986.0	986.0
172.5°	984.1	983.8	983.9	984.0	984.2	984.3	985.6	986.9	988.3	989.6	989.5
175°	988.5	988.3	988.4	988.5	988.7	988.9	990.0	991.2	992.3	993.4	993.3
177.5°	990.4	990.1	990.2	990.4	990.5	990.6	991.7	992.8	993.8	994.9	994.8
180°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8



TEST NUMBER: P332372-830

CATALOG NUMBER: S123RDIP-S1165D805U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5
2.5°	1648.8	1648.1	1648.8	1646.3	1648.8	1648.1	1648.8	1655.9	1655.9	1656.4	1657.1
5°	1534.2	1533.5	1531.3	1524.6	1531.3	1533.5	1534.2	1536.4	1542.4	1552.7	1549.7
7.5°	1434.2	1433.1	1426.6	1426.8	1426.6	1433.1	1434.2	1440.0	1446.6	1453.0	1460.6
10°	1375.0	1375.6	1366.8	1361.6	1366.8	1375.6	1375.0	1380.2	1389.8	1395.0	1400.1
12.5°	1317.5	1314.1	1306.9	1301.2	1306.9	1314.1	1317.5	1321.4	1334.6	1340.4	1350.4
15°	1241.6	1234.2	1216.4	1217.9	1216.4	1234.2	1241.6	1238.6	1252.0	1259.3	1262.3
17.5°	1152.3	1146.8	1146.5	1136.1	1146.5	1146.8	1152.3	1158.2	1169.7	1177.7	1198.9
20°	1100.1	1096.4	1097.9	1087.5	1097.9	1096.4	1100.1	1111.9	1119.4	1129.7	1146.8
22.5°	1059.2	1055.5	1049.2	1046.0	1049.2	1055.5	1059.2	1067.5	1075.5	1090.1	1099.4
25°	999.4	993.4	987.5	991.2	987.5	993.4	999.4	1003.8	1018.6	1025.3	1038.6
27.5°	939.5	935.1	929.2	928.4	929.2	935.1	939.5	943.8	952.0	963.2	979.2
30°	901.5	897.1	894.2	890.4	894.2	897.1	901.5	905.3	913.4	925.3	937.2
32.5°	863.1	862.1	856.9	856.1	856.9	862.1	863.1	869.1	877.2	888.5	898.6
35°	812.7	808.2	806.7	807.5	806.7	808.2	812.7	815.7	823.0	833.4	843.0
37.5°	764.8	758.8	756.2	753.6	756.2	758.8	764.8	765.3	772.8	779.8	792.8
40°	730.5	724.5	723.0	721.5	723.0	724.5	730.5	729.7	737.8	743.0	754.9
42.5°	691.9	689.6	688.6	686.0	688.6	689.6	691.9	695.9	700.5	708.0	717.0
45°	639.3	638.6	634.1	635.7	634.1	638.6	639.3	641.5	649.7	654.9	663.0
47.5°	583.9	580.6	577.5	579.6	577.5	580.6	583.9	586.8	592.4	598.7	609.5
50°	546.0	544.5	537.8	539.3	537.8	544.5	546.0	548.9	552.6	560.8	570.4
52.5°	508.0	502.4	499.9	499.0	499.9	502.4	508.0	511.0	515.3	524.6	531.9
55°	445.3	438.6	435.5	434.1	435.5	438.6	445.3	450.4	456.4	466.7	474.1
57.5°	383.6	381.8	379.5	381.1	379.5	381.8	383.6	392.2	397.9	406.1	415.2
60°	347.4	347.4	347.4	346.7	347.4	347.4	347.4	354.9	360.1	368.2	377.8
62.5°	319.6	317.8	317.3	318.3	317.3	317.8	319.6	322.8	328.0	333.2	341.7
65°	277.1	276.4	273.3	272.6	273.3	276.4	277.1	279.3	283.7	287.5	293.3
67.5°	237.0	234.2	233.4	232.3	233.4	234.2	237.0	238.8	241.8	246.6	249.5
70°	206.7	205.2	200.8	201.5	200.8	205.2	206.7	210.4	213.4	219.2	222.3
72.5°	174.1	172.6	171.7	170.7	171.7	172.6	174.1	177.8	180.8	187.3	192.0
75°	137.8	137.0	136.3	139.3	136.3	137.0	137.8	138.6	139.3	141.5	143.7
77.5°	110.4	110.4	110.8	109.6	110.8	110.4	110.4	110.4	110.4	111.6	112.0
80°	92.6	92.6	91.9	91.9	91.9	92.6	92.6	92.6	92.6	92.6	91.9
82.5°	74.3	74.8	75.3	74.1	75.3	74.8	74.3	75.4	76.0	74.8	75.3
85°	48.9	48.2	49.7	48.9	49.7	48.2	48.9	48.9	47.4	48.9	48.2
87.5°	26.1	25.1	25.1	25.7	25.1	25.1	26.1	24.9	24.8	24.7	23.9
90°	21.1	21.5	21.8	22.1	21.8	21.5	21.1	20.8	20.3	19.6	19.0
92.5°	23.8	24.0	24.2	24.5	24.2	24.0	23.8	23.7	23.1	22.0	20.9
95°	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	27.4	26.3	25.2
97.5°	29.9	30.1	30.2	30.3	30.2	30.1	29.9	29.7	28.9	27.6	26.4
100°	30.4	30.6	30.8	30.9	30.8	30.6	30.4	30.3	29.6	28.3	27.0
102.5°	30.6	30.9	31.2	31.6	31.2	30.9	30.6	30.3	32.2	36.3	40.3
105°	31.5	31.8	32.1	32.4	32.1	31.8	31.5	31.1	45.4	74.5	103.4
107.5°	167.4	145.5	123.7	101.8	123.7	145.5	167.4	189.2	210.8	232.1	253.3
110°	272.9	249.5	226.0	202.6	226.0	249.5	272.9	296.3	310.8	316.1	321.5



TEST NUMBER: P332372-830

CATALOG NUMBER: S123RDIP-S1165D805U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	362.5	357.5	352.6	347.7	352.6	357.5	362.5	367.4	369.9	369.8	369.7
115°	431.3	432.0	432.6	433.3	432.6	432.0	431.3	430.6	429.5	427.9	426.2
117.5°	481.0	481.1	481.2	481.4	481.2	481.1	481.0	480.8	480.0	478.8	477.5
120°	514.3	514.3	514.3	514.3	514.3	514.3	514.3	514.3	513.7	512.4	511.0
122.5°	546.4	546.5	546.7	546.8	546.7	546.5	546.4	546.2	545.7	544.8	543.8
125°	591.4	591.8	592.1	592.5	592.1	591.8	591.4	591.2	590.8	590.5	590.1
127.5°	637.3	637.1	636.7	636.4	636.7	637.1	637.3	637.6	637.5	637.1	636.5
130°	665.6	665.3	665.0	664.7	665.0	665.3	665.6	666.0	665.8	665.2	664.5
132.5°	692.0	691.5	691.1	690.6	691.1	691.5	692.0	692.4	692.3	691.6	691.0
135°	731.7	731.2	730.8	730.3	730.8	731.2	731.7	732.2	732.2	731.7	731.2
137.5°	768.5	768.2	767.9	767.5	767.9	768.2	768.5	768.8	768.6	767.8	767.0
140°	790.9	790.6	790.2	789.9	790.2	790.6	790.9	791.3	791.1	790.4	789.8
142.5°	811.9	811.4	811.1	810.6	811.1	811.4	811.9	812.4	812.4	811.8	811.3
145°	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.1	841.8	841.4
147.5°	868.1	867.3	866.6	865.8	866.6	867.3	868.1	868.8	869.0	868.7	868.4
150°	885.0	884.5	884.0	883.5	884.0	884.5	885.0	885.5	885.5	885.2	884.9
152.5°	899.9	899.2	898.4	897.7	898.4	899.2	899.9	900.7	900.8	900.1	899.6
155°	920.4	919.4	918.4	917.4	918.4	919.4	920.4	921.3	921.4	920.6	919.8
157.5°	937.9	936.6	935.4	934.1	935.4	936.6	937.9	939.1	939.3	938.3	937.4
160°	948.1	947.0	945.8	944.7	945.8	947.0	948.1	949.2	949.3	948.4	947.3
162.5°	957.7	956.7	955.7	954.7	955.7	956.7	957.7	958.8	958.7	957.6	956.5
165°	970.3	969.0	967.9	966.8	967.9	969.0	970.3	971.4	971.3	970.0	968.7
167.5°	979.4	978.1	976.8	975.4	976.8	978.1	979.4	980.7	980.7	979.4	978.1
170°	984.7	983.4	982.1	980.8	982.1	983.4	984.7	986.0	986.0	984.7	983.4
172.5°	988.1	986.7	985.1	983.7	985.1	986.7	988.1	989.5	989.6	988.3	986.9
175°	992.1	990.8	989.5	988.2	989.5	990.8	992.1	993.3	993.4	992.3	991.2
177.5°	993.4	992.1	990.8	989.5	990.8	992.1	993.4	994.8	994.9	993.8	992.8
180°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8



TEST NUMBER: P332372-830

CATALOG NUMBER: S123RDIP-S1165D805U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5
2.5°	1651.7	1660.0	1668.3	1676.0	1687.9	1693.2	1700.9	1703.8	1712.8	1725.8	1736.4
5°	1551.2	1563.1	1578.7	1591.3	1611.3	1626.8	1643.9	1660.2	1679.4	1706.9	1731.3
7.5°	1466.0	1477.8	1496.5	1519.8	1541.9	1564.0	1587.2	1609.5	1637.0	1676.3	1715.2
10°	1409.8	1423.8	1446.0	1471.2	1498.6	1520.1	1547.6	1575.7	1609.8	1655.0	1701.7
12.5°	1361.1	1371.7	1397.5	1421.4	1452.5	1479.9	1506.7	1539.5	1578.4	1626.5	1682.6
15°	1283.8	1298.6	1323.8	1350.5	1383.1	1412.0	1446.8	1486.8	1524.6	1583.8	1652.0
17.5°	1206.2	1228.7	1254.9	1285.0	1309.2	1349.0	1386.8	1427.9	1474.3	1537.2	1612.0
20°	1156.4	1174.2	1198.6	1242.4	1274.2	1304.6	1339.4	1390.5	1433.4	1504.6	1582.3
22.5°	1114.4	1127.4	1154.8	1190.8	1227.9	1263.1	1298.4	1347.3	1400.2	1467.8	1552.2
25°	1052.0	1072.7	1093.4	1119.4	1159.3	1201.6	1240.1	1281.6	1337.9	1409.8	1500.9
27.5°	991.1	1009.8	1030.3	1062.2	1092.5	1132.0	1172.2	1219.8	1280.3	1356.3	1448.7
30°	952.0	966.0	985.2	1026.1	1053.4	1087.5	1134.9	1177.1	1233.4	1314.2	1412.0
32.5°	911.6	929.8	950.9	982.1	1016.1	1048.4	1091.7	1137.5	1195.0	1274.5	1374.6
35°	854.1	875.6	897.1	920.1	954.1	987.5	1023.8	1074.2	1132.7	1209.8	1308.2
37.5°	801.3	818.6	836.0	864.5	896.8	928.5	962.4	1012.1	1067.2	1150.4	1240.7
40°	767.5	783.1	796.4	826.0	857.1	891.2	924.5	968.3	1027.5	1105.3	1192.7
42.5°	730.8	745.1	763.2	787.5	821.0	849.7	883.1	924.4	980.1	1059.0	1135.8
45°	675.6	691.9	707.5	730.5	763.7	791.9	821.5	860.8	917.8	983.1	1051.2
47.5°	618.3	634.6	652.3	674.6	703.6	732.3	761.9	796.6	848.7	912.7	958.6
50°	581.5	594.8	612.7	634.9	661.6	691.9	718.6	756.4	806.0	856.4	896.4
52.5°	543.6	555.7	575.9	599.3	624.2	650.4	678.9	711.3	756.2	803.6	835.4
55°	484.5	499.3	516.3	539.3	563.7	586.0	613.4	646.8	682.3	717.8	739.3
57.5°	429.2	441.5	455.9	479.6	500.8	527.4	551.9	577.9	610.8	637.5	651.6
60°	388.9	400.0	418.6	439.3	459.3	482.3	510.4	536.3	561.6	583.1	594.1
62.5°	351.0	363.9	380.0	399.0	420.8	442.5	467.1	488.9	511.1	529.7	537.2
65°	301.5	311.9	323.8	341.5	359.3	381.5	400.8	423.0	439.3	449.7	456.4
67.5°	256.5	263.3	272.3	284.2	301.6	321.0	339.7	357.0	370.7	377.8	383.7
70°	227.4	231.9	238.6	250.4	263.7	280.8	300.0	312.6	324.5	330.4	336.3
72.5°	198.4	204.1	210.1	219.6	230.5	242.8	256.7	272.3	278.8	286.0	289.5
75°	150.4	158.5	166.6	172.6	180.0	189.6	202.3	211.9	215.6	221.5	222.3
77.5°	113.5	115.3	121.2	128.6	134.8	141.8	149.8	158.3	160.1	163.2	165.2
80°	93.3	93.3	93.3	97.7	105.2	110.4	117.8	122.2	125.2	125.9	126.7
82.5°	74.9	74.9	74.4	75.3	77.9	80.8	87.6	92.6	95.0	94.5	92.9
85°	48.9	47.4	47.4	46.7	47.4	45.9	45.1	48.2	52.6	52.6	51.1
87.5°	23.8	23.1	23.3	22.2	21.2	20.2	18.1	18.3	18.0	20.1	19.1
90°	18.4	17.7	15.6	13.4	11.3	9.1	7.3	5.7	4.1	2.4	0.8
92.5°	19.9	18.9	17.2	15.6	14.0	12.4	11.9	12.3	12.8	13.3	13.7
95°	24.0	22.8	21.0	19.2	17.4	15.6	18.1	24.8	31.5	38.3	45.0
97.5°	25.1	23.8	35.5	47.3	59.1	70.9	78.3	81.3	84.4	87.4	90.3
100°	25.6	24.3	49.9	75.4	100.9	126.5	137.6	134.3	131.1	127.8	124.5
102.5°	44.4	48.4	76.3	104.2	132.2	160.1	172.9	170.5	168.1	165.8	163.4
105°	132.4	161.4	176.1	190.9	205.6	220.4	226.8	225.0	223.2	221.4	219.6
107.5°	274.6	295.8	293.4	291.2	288.8	286.4	284.6	283.1	281.7	280.3	278.8
110°	327.0	332.3	330.5	328.8	327.0	325.1	323.6	322.3	320.9	319.6	318.3



TEST NUMBER: P332372-830

CATALOG NUMBER: S123RDIP-S1165D805U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	369.6	369.5	367.7	365.9	364.1	362.2	360.8	359.6	358.4	357.2	356.1
115°	424.6	423.0	421.5	420.0	418.6	417.1	415.8	414.9	413.9	412.9	411.9
117.5°	476.2	474.9	474.1	473.3	472.6	471.8	470.8	469.7	468.4	467.2	466.0
120°	509.7	508.4	507.9	507.5	507.0	506.5	505.5	504.0	502.6	501.1	499.6
122.5°	543.0	542.1	541.4	540.8	540.2	539.5	538.7	537.4	536.2	535.0	533.8
125°	589.8	589.5	588.8	588.1	587.6	586.9	585.9	584.6	583.2	581.9	580.7
127.5°	636.0	635.5	634.7	634.0	633.1	632.4	631.3	630.0	628.7	627.4	626.0
130°	663.8	663.2	662.5	661.9	661.2	660.5	659.6	658.3	657.0	655.6	654.3
132.5°	690.4	689.8	689.2	688.6	688.2	687.6	686.7	685.4	684.1	682.8	681.5
135°	730.8	730.3	729.6	729.0	728.3	727.6	726.8	725.9	724.8	723.9	722.8
137.5°	766.3	765.4	765.1	764.8	764.4	764.0	763.2	762.0	760.7	759.5	758.3
140°	789.1	788.4	788.0	787.5	787.0	786.5	785.8	784.8	783.8	782.8	781.8
142.5°	810.8	810.3	809.7	809.3	808.8	808.3	807.6	806.6	805.6	804.6	803.6
145°	841.1	840.7	840.5	840.1	839.8	839.4	838.8	837.5	836.4	835.3	834.2
147.5°	868.1	867.7	867.4	867.0	866.8	866.5	865.9	865.2	864.4	863.7	862.9
150°	884.6	884.3	883.9	883.6	883.3	883.0	882.5	882.0	881.6	881.1	880.5
152.5°	899.0	898.4	898.2	898.0	897.8	897.6	897.4	897.2	896.9	896.7	896.5
155°	919.0	918.1	917.9	917.8	917.7	917.5	917.6	917.9	918.2	918.6	918.9
157.5°	936.4	935.4	935.6	935.8	935.9	936.0	936.1	936.1	936.2	936.2	936.2
160°	946.4	945.4	945.6	945.7	945.9	946.0	946.2	946.4	946.6	946.7	946.9
162.5°	955.4	954.2	954.4	954.6	954.7	954.9	955.2	955.6	956.0	956.5	956.9
165°	967.3	966.0	966.2	966.4	966.6	966.7	967.0	967.5	968.0	968.5	969.0
167.5°	976.8	975.4	975.4	975.4	975.4	975.4	975.8	976.5	977.1	977.8	978.5
170°	982.1	980.8	980.8	980.8	980.8	980.8	981.1	981.8	982.4	983.1	983.7
172.5°	985.6	984.3	984.2	984.0	983.9	983.8	984.1	984.9	985.7	986.5	987.2
175°	990.0	988.9	988.7	988.5	988.4	988.3	988.5	989.4	990.2	991.0	991.8
177.5°	991.7	990.6	990.5	990.4	990.2	990.1	990.4	991.1	991.7	992.4	993.0
180°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8



TEST NUMBER: P332372-830

CATALOG NUMBER: S123RDIP-S1165D805U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5
2.5°	1740.0	1746.5	1754.8	1767.3	1776.8	1785.1	1786.9	1789.2	1795.2	1805.2	1812.9
5°	1751.2	1768.3	1795.7	1822.4	1851.2	1875.0	1897.2	1912.8	1927.6	1958.7	1983.9
7.5°	1747.8	1785.6	1828.6	1876.5	1925.0	1971.9	2015.4	2054.4	2093.2	2138.5	2190.3
10°	1745.3	1789.8	1847.6	1909.0	1976.5	2042.4	2106.1	2155.8	2213.6	2265.4	2331.3
12.5°	1734.1	1798.1	1867.2	1945.8	2028.6	2104.6	2188.5	2257.1	2323.2	2398.1	2474.7
15°	1719.4	1797.2	1884.6	1989.0	2115.0	2206.9	2292.8	2412.1	2493.6	2575.0	2684.7
17.5°	1692.6	1787.5	1896.8	2032.5	2137.5	2261.0	2390.3	2484.5	2594.3	2709.2	2808.4
20°	1671.2	1781.7	1903.8	2037.2	2171.3	2305.4	2430.6	2543.2	2656.6	2789.2	2870.6
22.5°	1649.9	1759.2	1886.1	2027.8	2171.9	2313.1	2454.9	2587.1	2714.6	2848.5	2952.4
25°	1604.6	1734.3	1872.0	2016.5	2158.7	2314.3	2483.2	2630.6	2788.4	2926.2	3024.7
27.5°	1558.7	1677.4	1814.7	1961.2	2119.3	2303.2	2501.9	2669.5	2827.5	2926.2	2957.1
30°	1517.2	1643.1	1769.1	1918.0	2089.1	2294.2	2505.4	2697.3	2827.0	2869.9	2838.0
32.5°	1475.1	1589.2	1713.9	1866.4	2048.1	2272.4	2510.2	2680.7	2758.7	2725.9	2596.2
35°	1400.9	1503.8	1624.6	1777.2	1986.1	2260.2	2490.6	2606.1	2586.9	2401.7	2157.2
37.5°	1321.4	1405.3	1517.2	1676.8	1921.8	2212.1	2406.4	2423.5	2256.8	1972.5	1690.1
40°	1258.7	1334.2	1449.1	1615.7	1872.0	2164.6	2321.7	2252.8	1994.2	1677.9	1442.4
42.5°	1197.6	1261.3	1372.0	1551.7	1824.6	2100.1	2195.5	2045.4	1747.1	1448.0	1233.8
45°	1094.2	1154.1	1265.3	1449.7	1727.6	1976.5	1963.9	1703.1	1404.6	1163.9	986.0
47.5°	996.1	1048.6	1152.8	1341.1	1613.6	1791.3	1673.5	1396.0	1142.7	949.6	822.7
50°	926.7	978.6	1082.3	1268.3	1522.4	1652.0	1483.8	1216.4	984.6	824.5	723.8
52.5°	860.4	911.1	1005.9	1187.0	1412.1	1489.6	1309.0	1061.1	867.8	729.7	643.2
55°	767.5	806.0	891.2	1064.5	1232.8	1250.5	1067.5	860.1	700.8	604.5	545.3
57.5°	672.8	706.0	790.1	928.2	1046.1	1037.0	863.5	684.1	576.8	505.2	462.2
60°	611.1	643.8	717.8	836.4	925.3	894.2	734.9	590.4	498.6	446.0	411.9
62.5°	553.6	579.2	648.5	735.0	799.0	763.7	628.2	508.6	435.7	391.4	364.5
65°	470.4	491.2	546.7	591.9	627.5	593.4	480.8	397.8	345.3	314.1	295.6
67.5°	391.2	404.4	439.6	455.9	481.0	443.6	361.6	305.9	276.1	249.8	237.0
70°	341.5	351.1	369.7	383.0	389.6	351.1	290.4	249.7	224.4	205.9	197.8
72.5°	291.7	300.2	303.9	314.8	311.4	275.3	233.5	201.0	182.9	170.4	159.9
75°	223.0	226.7	223.0	218.6	208.9	183.7	154.9	138.6	125.2	119.2	115.6
77.5°	162.5	161.4	156.3	149.4	132.9	117.1	101.5	96.0	90.2	87.1	85.8
80°	125.2	122.2	117.8	106.7	92.6	81.5	77.8	74.1	71.8	68.1	67.4
82.5°	93.2	91.4	84.0	74.6	64.8	59.6	56.5	55.1	52.9	51.0	50.8
85°	49.7	47.4	39.3	34.1	32.6	31.1	30.3	30.3	27.4	26.7	26.7
87.5°	16.5	13.3	13.0	11.5	11.9	11.1	12.2	11.4	11.2	12.0	10.9
90°	2.4	4.1	5.7	7.3	9.1	11.3	13.4	15.6	17.7	18.4	19.0
92.5°	13.3	12.8	12.3	11.9	12.4	14.0	15.6	17.2	18.9	19.9	20.9
95°	38.3	31.5	24.8	18.1	15.6	17.4	19.2	21.0	22.8	24.0	25.2
97.5°	87.4	84.4	81.3	78.3	70.9	59.1	47.3	35.5	23.8	25.1	26.4
100°	127.8	131.1	134.3	137.6	126.5	100.9	75.4	49.9	24.3	25.6	27.0
102.5°	165.8	168.1	170.5	172.9	160.1	132.2	104.2	76.3	48.4	44.4	40.3
105°	221.4	223.2	225.0	226.8	220.4	205.6	190.9	176.1	161.4	132.4	103.4
107.5°	280.3	281.7	283.1	284.6	286.4	288.8	291.2	293.4	295.8	274.6	253.3
110°	319.6	320.9	322.3	323.6	325.1	327.0	328.8	330.5	332.3	327.0	321.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	357.2	358.4	359.6	360.8	362.2	364.1	365.9	367.7	369.5	369.6	369.7
115°	412.9	413.9	414.9	415.8	417.1	418.6	420.0	421.5	423.0	424.6	426.2
117.5°	467.2	468.4	469.7	470.8	471.8	472.6	473.3	474.1	474.9	476.2	477.5
120°	501.1	502.6	504.0	505.5	506.5	507.0	507.5	507.9	508.4	509.7	511.0
122.5°	535.0	536.2	537.4	538.7	539.5	540.2	540.8	541.4	542.1	543.0	543.8
125°	581.9	583.2	584.6	585.9	586.9	587.6	588.1	588.8	589.5	589.8	590.1
127.5°	627.4	628.7	630.0	631.3	632.4	633.1	634.0	634.7	635.5	636.0	636.5
130°	655.6	657.0	658.3	659.6	660.5	661.2	661.9	662.5	663.2	663.8	664.5
132.5°	682.8	684.1	685.4	686.7	687.6	688.2	688.6	689.2	689.8	690.4	691.0
135°	723.9	724.8	725.9	726.8	727.6	728.3	729.0	729.6	730.3	730.8	731.2
137.5°	759.5	760.7	762.0	763.2	764.0	764.4	764.8	765.1	765.4	766.3	767.0
140°	782.8	783.8	784.8	785.8	786.5	787.0	787.5	788.0	788.4	789.1	789.8
142.5°	804.6	805.6	806.6	807.6	808.3	808.8	809.3	809.7	810.3	810.8	811.3
145°	835.3	836.4	837.5	838.8	839.4	839.8	840.1	840.5	840.7	841.1	841.4
147.5°	863.7	864.4	865.2	865.9	866.5	866.8	867.0	867.4	867.7	868.1	868.4
150°	881.1	881.6	882.0	882.5	883.0	883.3	883.6	883.9	884.3	884.6	884.9
152.5°	896.7	896.9	897.2	897.4	897.6	897.8	898.0	898.2	898.4	899.0	899.6
155°	918.6	918.2	917.9	917.6	917.5	917.7	917.8	917.9	918.1	919.0	919.8
157.5°	936.2	936.2	936.1	936.1	936.0	935.9	935.8	935.6	935.4	936.4	937.4
160°	946.7	946.6	946.4	946.2	946.0	945.9	945.7	945.6	945.4	946.4	947.3
162.5°	956.5	956.0	955.6	955.2	954.9	954.7	954.6	954.4	954.2	955.4	956.5
165°	968.5	968.0	967.5	967.0	966.7	966.6	966.4	966.2	966.0	967.3	968.7
167.5°	977.8	977.1	976.5	975.8	975.4	975.4	975.4	975.4	975.4	976.8	978.1
170°	983.1	982.4	981.8	981.1	980.8	980.8	980.8	980.8	980.8	982.1	983.4
172.5°	986.5	985.7	984.9	984.1	983.8	983.9	984.0	984.2	984.3	985.6	986.9
175°	991.0	990.2	989.4	988.5	988.3	988.4	988.5	988.7	988.9	990.0	991.2
177.5°	992.4	991.7	991.1	990.4	990.1	990.2	990.4	990.5	990.6	991.7	992.8
180°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5
2.5°	1825.3	1825.3	1827.7	1836.6	1837.8	1845.5	1843.1
5°	2006.1	2020.2	2025.3	2047.6	2061.0	2066.9	2055.0
7.5°	2227.1	2266.9	2285.7	2308.9	2329.6	2335.8	2319.6
10°	2388.4	2429.9	2464.7	2486.1	2506.1	2519.5	2536.6
12.5°	2544.2	2595.2	2628.3	2658.6	2679.2	2696.1	2698.9
15°	2713.6	2790.6	2849.1	2892.1	2913.6	2924.7	2920.3
17.5°	2884.4	2955.8	2997.5	3041.3	3071.1	3072.6	3073.4
20°	2981.0	3050.6	3098.8	3131.4	3164.8	3163.3	3170.6
22.5°	3045.6	3100.4	3137.3	3161.0	3172.4	3166.8	3168.3
25°	3075.8	3092.1	3085.5	3047.7	3038.1	3003.2	3009.2
27.5°	2920.0	2842.9	2763.3	2660.7	2579.8	2515.2	2518.5
30°	2708.4	2572.1	2416.5	2286.1	2169.1	2136.5	2066.9
32.5°	2412.6	2208.2	2026.0	1904.5	1804.0	1776.8	1716.0
35°	1911.3	1712.8	1525.3	1412.7	1368.3	1306.1	1305.3
37.5°	1485.6	1310.8	1211.6	1127.2	1082.9	1045.3	1041.6
40°	1249.7	1113.4	1038.6	977.9	934.2	906.0	899.4
42.5°	1085.0	974.8	904.7	867.0	833.4	818.9	808.0
45°	886.0	811.9	763.0	729.0	713.4	702.3	696.4
47.5°	741.1	691.4	658.2	635.5	622.8	611.1	614.3
50°	662.3	621.5	597.1	575.6	566.0	557.8	558.6
52.5°	598.9	562.3	542.5	527.0	515.0	509.3	506.4
55°	508.2	485.2	465.2	454.1	447.4	439.3	437.1
57.5°	433.5	415.8	399.4	386.8	385.2	377.4	378.4
60°	383.7	368.9	355.6	348.9	343.7	337.1	339.3
62.5°	342.8	330.4	318.3	312.7	307.6	302.7	303.7
65°	280.8	268.9	261.5	258.5	256.3	254.1	251.8
67.5°	223.8	216.5	211.9	205.5	201.0	200.2	197.9
70°	188.1	178.5	170.4	162.2	160.0	159.3	160.0
72.5°	150.8	144.8	142.5	138.6	138.1	136.2	137.5
75°	113.4	111.1	109.6	106.7	106.7	106.7	106.7
77.5°	83.6	82.2	81.3	80.8	80.0	79.0	78.8
80°	65.2	64.5	63.0	63.0	62.2	63.0	62.2
82.5°	49.2	49.0	47.6	47.6	46.8	46.4	46.8
85°	25.2	24.4	25.9	24.4	25.2	23.8	25.2
87.5°	11.0	11.2	10.7	10.7	10.2	11.5	10.4
90°	19.6	20.3	20.8	21.1	21.5	21.8	22.1
92.5°	22.0	23.1	23.7	23.8	24.0	24.2	24.5
95°	26.3	27.4	28.0	28.0	28.0	28.0	28.0
97.5°	27.6	28.9	29.7	29.9	30.1	30.2	30.3
100°	28.3	29.6	30.3	30.4	30.6	30.8	30.9
102.5°	36.3	32.2	30.3	30.6	30.9	31.2	31.6
105°	74.5	45.4	31.1	31.5	31.8	32.1	32.4
107.5°	232.1	210.8	189.2	167.4	145.5	123.7	101.8
110°	316.1	310.8	296.3	272.9	249.5	226.0	202.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	369.8	369.9	367.4	362.5	357.5	352.6	347.7
115°	427.9	429.5	430.6	431.3	432.0	432.6	433.3
117.5°	478.8	480.0	480.8	481.0	481.1	481.2	481.4
120°	512.4	513.7	514.3	514.3	514.3	514.3	514.3
122.5°	544.8	545.7	546.2	546.4	546.5	546.7	546.8
125°	590.5	590.8	591.2	591.4	591.8	592.1	592.5
127.5°	637.1	637.5	637.6	637.3	637.1	636.7	636.4
130°	665.2	665.8	666.0	665.6	665.3	665.0	664.7
132.5°	691.6	692.3	692.4	692.0	691.5	691.1	690.6
135°	731.7	732.2	732.2	731.7	731.2	730.8	730.3
137.5°	767.8	768.6	768.8	768.5	768.2	767.9	767.5
140°	790.4	791.1	791.3	790.9	790.6	790.2	789.9
142.5°	811.8	812.4	812.4	811.9	811.4	811.1	810.6
145°	841.8	842.1	842.3	842.3	842.3	842.3	842.3
147.5°	868.7	869.0	868.8	868.1	867.3	866.6	865.8
150°	885.2	885.5	885.5	885.0	884.5	884.0	883.5
152.5°	900.1	900.8	900.7	899.9	899.2	898.4	897.7
155°	920.6	921.4	921.3	920.4	919.4	918.4	917.4
157.5°	938.3	939.3	939.1	937.9	936.6	935.4	934.1
160°	948.4	949.3	949.2	948.1	947.0	945.8	944.7
162.5°	957.6	958.7	958.8	957.7	956.7	955.7	954.7
165°	970.0	971.3	971.4	970.3	969.0	967.9	966.8
167.5°	979.4	980.7	980.7	979.4	978.1	976.8	975.4
170°	984.7	986.0	986.0	984.7	983.4	982.1	980.8
172.5°	988.3	989.6	989.5	988.1	986.7	985.1	983.7
175°	992.3	993.4	993.3	992.1	990.8	989.5	988.2
177.5°	993.8	994.9	994.8	993.4	992.1	990.8	989.5
180°	991.8	991.8	991.8	991.8	991.8	991.8	991.8

(END OF REPORT)