

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: P332368-830

Luminaire Tested: **S123RDIP-S1165D585U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332368-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S1165D585U830-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 585 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6308.8 lumens
Efficiency: N/A
Efficacy: 114.5 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

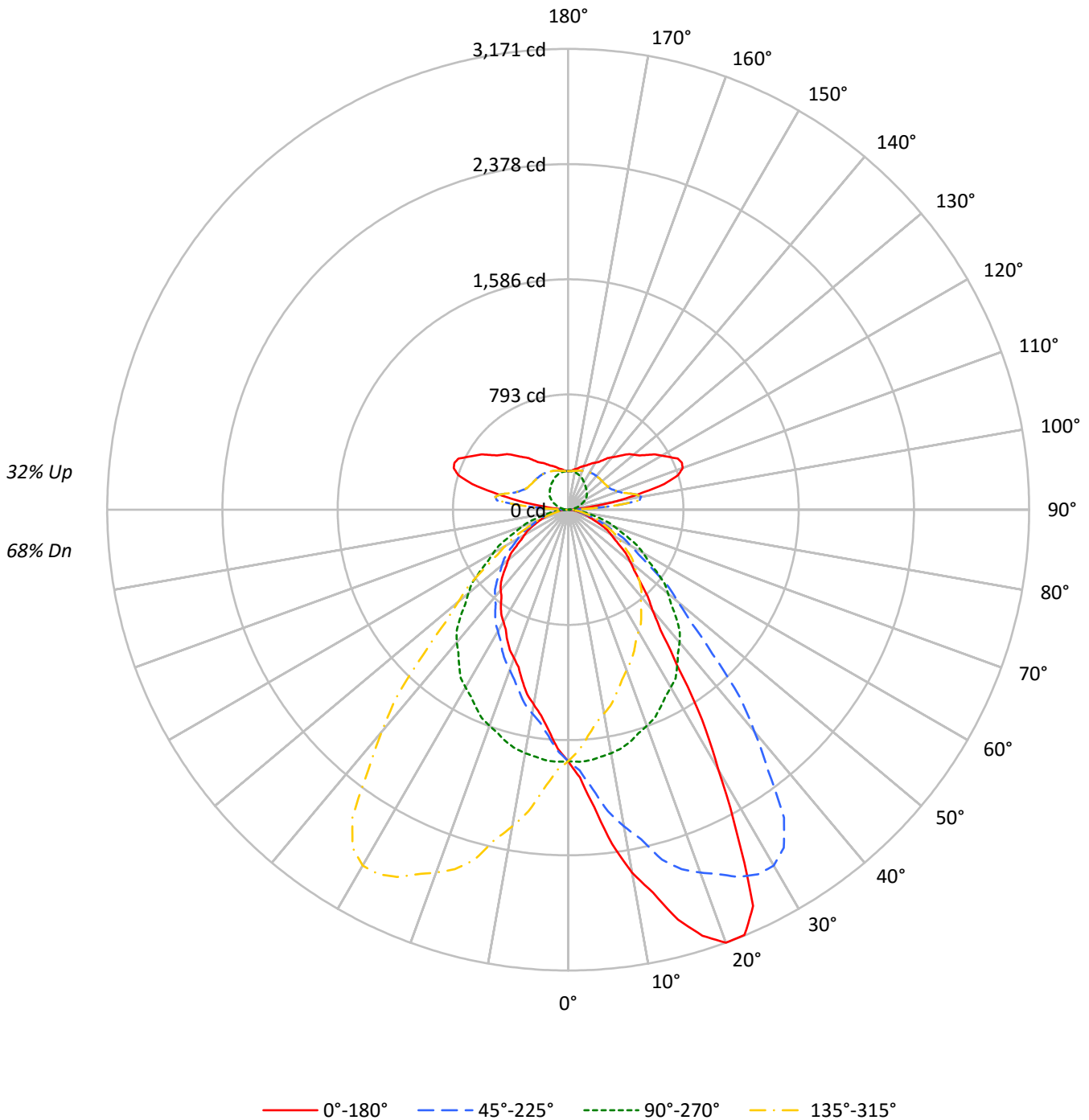
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73	68
1	103	99	95	92	97	93	90	87	83	81	79	74	72	71	66	64	63	59
2	94	87	81	76	89	82	77	73	74	70	66	66	63	60	59	57	54	51
3	86	77	70	64	81	73	67	62	66	61	57	59	55	52	53	50	47	44
4	80	69	61	55	75	66	59	53	59	54	49	53	49	45	48	44	41	38
5	73	62	54	48	69	59	52	46	53	48	43	48	43	40	43	40	37	34
6	68	56	48	42	64	53	46	41	48	42	38	44	39	35	40	36	33	30
7	63	51	43	37	60	49	41	36	44	38	34	40	35	32	36	32	29	27
8	59	46	39	33	55	44	37	32	41	35	30	37	32	28	34	29	26	24
9	55	43	35	30	52	41	34	29	37	32	27	34	29	26	31	27	24	22
10	51	39	32	27	49	38	31	26	35	29	25	32	27	23	29	25	22	20

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	2.7
10°-20°	531.7	8.4
20°-30°	835.3	13.2
30°-40°	871.4	13.8
40°-50°	745.8	11.8
50°-60°	568.4	9.0
60°-70°	364.3	5.8
70°-80°	175.3	2.8
80°-90°	48.4	0.8
90°-100°	147.8	2.3
100°-110°	418.5	6.6
110°-120°	411.7	6.5
120°-130°	328.4	5.2
130°-140°	258.9	4.1
140°-150°	193.2	3.1
150°-160°	134.7	2.1
160°-170°	79.1	1.3
170°-180°	25.7	0.4
0°-30°	1537.1	24.4
0°-40°	2408.6	38.2
0°-60°	3722.7	59.0
0°-90°	4310.8	68.3
90°-120°	978.0	15.5
90°-150°	1758.5	27.9
90°-180°	1998.0	31.7
0°-180°	6308.8	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°	16	1	16	1	16	9
95°	62	18	62	18	62	112
105°	684	62	684	62	684	675
115°	832	110	832	110	832	808
125°	656	153	656	153	656	594
135°	532	180	532	180	532	412
145°	416	205	416	205	416	264
155°	345	233	345	233	345	161
165°	300	254	300	254	300	86
175°	270	265	270	265	270	26
180°	266	266	266	266	266	



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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°	9.0	10.4	9.0	9.5	9.6	10.0	9.9	9.8	10.8	10.4	10.7
90°	15.6	16.1	15.6	15.1	15.6	14.5	13.9	13.5	12.9	13.5	11.8
92.5°	25.9	26.9	26.3	28.0	28.9	31.8	35.9	45.2	62.4	82.7	91.0
95°	62.4	64.5	68.2	73.1	83.3	102.6	131.2	193.5	258.5	318.8	283.9
97.5°	169.8	174.4	188.9	213.1	252.8	317.1	386.4	482.5	528.6	494.1	361.7
100°	337.1	336.6	357.5	396.7	451.0	527.4	590.3	633.9	615.0	509.1	344.0
102.5°	494.5	506.8	524.3	555.4	597.7	646.1	682.8	684.2	619.3	481.2	318.3
105°	683.8	686.5	703.7	724.2	748.9	762.9	752.6	698.9	586.5	432.3	286.5
107.5°	792.9	797.8	803.6	810.5	810.0	790.9	743.9	656.5	529.1	389.0	266.4
110°	837.5	838.7	839.7	835.5	820.4	782.8	715.0	616.0	492.9	364.5	258.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	846.6	846.4	842.4	829.0	801.4	753.1	677.1	576.1	461.6	348.2	254.3
115°	831.7	829.0	818.2	794.6	754.2	695.7	616.6	523.1	423.7	330.6	252.7
117.5°	784.1	780.5	765.0	737.9	695.9	636.4	565.4	484.7	400.8	320.3	253.6
120°	744.6	741.3	728.5	698.3	655.9	601.5	537.1	464.5	388.7	315.6	255.3
122.5°	707.6	703.5	689.3	662.2	624.4	574.0	514.3	448.6	378.8	312.5	258.4
125°	655.9	652.1	638.7	615.0	580.6	537.6	486.0	427.3	366.1	308.6	262.9
127.5°	613.3	609.8	597.7	577.5	546.9	507.7	461.2	408.9	355.0	306.6	268.1
130°	589.2	584.9	573.6	554.3	525.8	489.2	445.6	397.3	348.9	305.4	271.5
132.5°	565.5	562.5	552.5	533.2	506.4	471.6	431.0	386.5	343.3	304.9	274.1
135°	531.7	527.9	518.2	502.1	475.8	445.2	410.2	372.0	336.0	304.3	278.0
137.5°	495.9	493.4	485.2	468.9	446.8	420.2	390.1	358.8	329.7	303.1	280.5
140°	470.9	471.5	462.9	447.8	427.3	404.3	378.4	351.1	325.7	302.7	282.2
142.5°	447.7	448.3	440.5	427.2	409.7	389.6	367.3	343.7	322.3	301.8	283.5
145°	415.6	414.5	410.2	398.9	385.5	369.9	352.7	334.9	317.7	300.5	284.4
147.5°	389.1	388.7	384.6	376.9	366.7	355.7	341.8	327.7	313.2	298.5	284.4
150°	373.6	373.6	370.4	364.5	356.5	346.2	334.9	322.5	310.2	296.7	284.4
152.5°	360.7	360.7	358.8	353.3	346.9	338.5	328.5	317.8	306.8	294.6	283.1
155°	344.6	344.0	343.0	338.7	333.8	327.4	319.3	310.8	301.6	290.9	281.7
157.5°	329.9	330.0	329.1	325.9	321.7	316.7	310.4	303.2	295.8	287.5	279.8
160°	320.4	320.9	320.9	317.7	314.0	310.2	304.8	298.9	291.9	284.9	279.0
162.5°	311.8	312.4	312.4	309.5	307.1	303.8	298.8	293.8	288.0	282.4	277.3
165°	300.5	300.5	301.0	298.9	296.7	294.1	290.3	287.1	282.8	278.5	274.8
167.5°	289.7	289.7	290.3	288.8	287.9	285.9	283.7	281.3	277.8	274.6	272.1
170°	283.3	283.3	283.9	282.8	282.2	281.2	279.0	277.4	274.8	272.0	270.4
172.5°	277.3	277.8	278.7	277.6	277.5	276.8	275.1	274.0	271.7	269.8	269.1
175°	270.4	271.0	271.5	271.0	271.0	271.0	269.8	269.4	268.2	267.2	267.2
177.5°	266.5	266.5	267.3	266.8	267.3	267.3	266.8	266.5	266.0	265.6	266.0
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



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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°	11.5	10.7	11.5	11.2	12.8	13.1	16.4	19.1	20.0	17.8	18.2
90°	10.2	8.6	7.0	5.9	4.8	3.2	2.2	1.0	2.2	3.2	4.8
92.5°	68.2	45.1	31.1	23.1	18.6	14.4	9.9	6.7	9.9	14.4	18.6
95°	195.7	115.6	69.8	48.9	35.0	25.8	19.9	18.3	19.9	25.8	35.0
97.5°	214.7	124.4	80.8	58.1	44.3	36.4	31.8	31.2	31.8	36.4	44.3
100°	202.6	123.1	85.5	64.5	51.7	44.1	40.3	39.8	40.3	44.1	51.7
102.5°	192.4	124.8	91.0	71.8	60.2	53.2	49.8	48.8	49.8	53.2	60.2
105°	184.9	129.6	100.6	83.9	73.6	67.2	64.0	62.4	64.0	67.2	73.6
107.5°	184.4	138.4	112.9	97.5	87.8	81.5	78.4	76.7	78.4	81.5	87.8
110°	186.5	145.7	121.5	106.4	97.3	91.4	88.7	87.1	88.7	91.4	97.3



TEST NUMBER: P332368-830

CATALOG NUMBER: S123RDIP-S1165D585U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	190.9	153.0	130.5	115.9	106.8	100.9	98.2	96.5	98.2	100.9	106.8
115°	197.8	165.0	144.6	130.1	120.9	115.6	112.4	110.2	112.4	115.6	120.9
117.5°	207.1	177.9	157.6	144.2	133.9	129.0	126.3	123.9	126.3	129.0	133.9
120°	214.0	186.0	166.6	153.3	143.0	137.6	135.0	133.4	135.0	137.6	143.0
122.5°	220.5	194.6	175.7	161.4	151.6	145.8	143.1	141.5	143.1	145.8	151.6
125°	230.6	207.0	188.1	173.6	163.4	157.5	154.3	153.3	154.3	157.5	163.4
127.5°	239.0	217.7	199.5	185.0	173.7	167.8	163.7	162.1	163.7	167.8	173.7
130°	244.6	224.1	206.4	191.9	180.6	174.2	169.4	167.8	169.4	174.2	180.6
132.5°	249.8	229.8	212.4	198.4	187.1	179.4	174.1	172.0	174.1	179.4	187.1
135°	256.5	238.2	221.5	207.0	195.7	187.7	181.7	179.6	181.7	187.7	195.7
137.5°	261.4	243.9	227.9	214.5	203.3	194.7	188.9	186.6	188.9	194.7	203.3
140°	264.0	247.8	232.2	218.8	208.0	199.4	194.1	191.4	194.1	199.4	208.0
142.5°	266.6	250.8	235.7	223.1	212.4	204.6	198.8	196.5	198.8	204.6	212.4
145°	269.4	254.9	240.8	228.5	219.3	211.3	206.4	204.8	206.4	211.3	219.3
147.5°	271.1	258.1	245.2	234.7	225.9	219.0	214.1	213.2	214.1	219.0	225.9
150°	271.5	260.2	247.8	238.2	230.6	223.7	219.3	218.8	219.3	223.7	230.6
152.5°	272.4	261.5	250.8	241.6	235.0	228.8	224.5	224.4	224.5	228.8	235.0
155°	272.6	264.0	254.9	247.3	241.4	236.0	232.8	232.8	232.8	236.0	241.4
157.5°	273.1	265.3	258.1	252.2	247.2	242.4	239.9	239.4	239.9	242.4	247.2
160°	273.1	266.6	260.2	254.9	251.1	246.8	244.6	244.6	244.6	246.8	251.1
162.5°	272.7	267.1	261.5	256.9	253.6	250.2	248.5	248.5	248.5	250.2	253.6
165°	271.5	267.7	263.4	259.7	257.5	254.9	253.7	254.3	253.7	254.9	257.5
167.5°	270.6	267.6	264.5	262.1	260.6	258.5	258.1	258.7	258.1	258.5	260.6
170°	269.4	267.2	264.5	263.4	262.3	260.7	260.2	261.3	260.2	260.7	262.3
172.5°	268.9	267.2	264.9	264.3	263.6	262.5	262.3	263.0	262.3	262.5	263.6
175°	267.7	266.6	265.6	265.0	265.0	264.0	264.5	265.0	264.5	264.0	265.0
177.5°	266.8	266.0	265.6	265.6	265.6	265.1	265.6	266.0	265.6	265.1	265.6
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



TEST NUMBER: P332368-830

CATALOG NUMBER: S123RDIP-S1165D585U830-4F0-1E-UDD-A4

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°	17.8	19.8	20.6	21.6	22.5	22.2	22.7	22.8	23.6	23.7	23.8
90°	5.9	7.0	8.6	10.2	11.8	13.5	12.9	13.5	13.9	14.5	15.6
92.5°	23.1	31.1	45.1	68.2	91.0	82.7	62.4	45.2	35.9	31.8	28.9
95°	48.9	69.8	115.6	195.7	283.9	318.8	258.5	193.5	131.2	102.6	83.3
97.5°	58.1	80.8	124.4	214.7	361.7	494.1	528.6	482.5	386.4	317.1	252.8
100°	64.5	85.5	123.1	202.6	344.0	509.1	615.0	633.9	590.3	527.4	451.0
102.5°	71.8	91.0	124.8	192.4	318.3	481.2	619.3	684.2	682.8	646.1	597.7
105°	83.9	100.6	129.6	184.9	286.5	432.3	586.5	698.9	752.6	762.9	748.9
107.5°	97.5	112.9	138.4	184.4	266.4	389.0	529.1	656.5	743.9	790.9	810.0
110°	106.4	121.5	145.7	186.5	258.5	364.5	492.9	616.0	715.0	782.8	820.4



TEST NUMBER: P332368-830

CATALOG NUMBER: S123RDIP-S1165D585U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	115.9	130.5	153.0	190.9	254.3	348.2	461.6	576.1	677.1	753.1	801.4
115°	130.1	144.6	165.0	197.8	252.7	330.6	423.7	523.1	616.6	695.7	754.2
117.5°	144.2	157.6	177.9	207.1	253.6	320.3	400.8	484.7	565.4	636.4	695.9
120°	153.3	166.6	186.0	214.0	255.3	315.6	388.7	464.5	537.1	601.5	655.9
122.5°	161.4	175.7	194.6	220.5	258.4	312.5	378.8	448.6	514.3	574.0	624.4
125°	173.6	188.1	207.0	230.6	262.9	308.6	366.1	427.3	486.0	537.6	580.6
127.5°	185.0	199.5	217.7	239.0	268.1	306.6	355.0	408.9	461.2	507.7	546.9
130°	191.9	206.4	224.1	244.6	271.5	305.4	348.9	397.3	445.6	489.2	525.8
132.5°	198.4	212.4	229.8	249.8	274.1	304.9	343.3	386.5	431.0	471.6	506.4
135°	207.0	221.5	238.2	256.5	278.0	304.3	336.0	372.0	410.2	445.2	475.8
137.5°	214.5	227.9	243.9	261.4	280.5	303.1	329.7	358.8	390.1	420.2	446.8
140°	218.8	232.2	247.8	264.0	282.2	302.7	325.7	351.1	378.4	404.3	427.3
142.5°	223.1	235.7	250.8	266.6	283.5	301.8	322.3	343.7	367.3	389.6	409.7
145°	228.5	240.8	254.9	269.4	284.4	300.5	317.7	334.9	352.7	369.9	385.5
147.5°	234.7	245.2	258.1	271.1	284.4	298.5	313.2	327.7	341.8	355.7	366.7
150°	238.2	247.8	260.2	271.5	284.4	296.7	310.2	322.5	334.9	346.2	356.5
152.5°	241.6	250.8	261.5	272.4	283.1	294.6	306.8	317.8	328.5	338.5	346.9
155°	247.3	254.9	264.0	272.6	281.7	290.9	301.6	310.8	319.3	327.4	333.8
157.5°	252.2	258.1	265.3	273.1	279.8	287.5	295.8	303.2	310.4	316.7	321.7
160°	254.9	260.2	266.6	273.1	279.0	284.9	291.9	298.9	304.8	310.2	314.0
162.5°	256.9	261.5	267.1	272.7	277.3	282.4	288.0	293.8	298.8	303.8	307.1
165°	259.7	263.4	267.7	271.5	274.8	278.5	282.8	287.1	290.3	294.1	296.7
167.5°	262.1	264.5	267.6	270.6	272.1	274.6	277.8	281.3	283.7	285.9	287.9
170°	263.4	264.5	267.2	269.4	270.4	272.0	274.8	277.4	279.0	281.2	282.2
172.5°	264.3	264.9	267.2	268.9	269.1	269.8	271.7	274.0	275.1	276.8	277.5
175°	265.0	265.6	266.6	267.7	267.2	267.2	268.2	269.4	269.8	271.0	271.0
177.5°	265.6	265.6	266.0	266.8	266.0	265.6	266.0	266.5	266.8	267.3	267.3
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



TEST NUMBER: P332368-830

CATALOG NUMBER: S123RDIP-S1165D585U830-4F0-1E-UDD-A4

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°	25.0	23.8	23.9	24.4	23.9	23.8	25.0	23.8	23.7	23.6	22.8
90°	15.1	15.6	16.1	15.6	16.1	15.6	15.1	15.6	14.5	13.9	13.5
92.5°	28.0	26.3	26.9	25.9	26.9	26.3	28.0	28.9	31.8	35.9	45.2
95°	73.1	68.2	64.5	62.4	64.5	68.2	73.1	83.3	102.6	131.2	193.5
97.5°	213.1	188.9	174.4	169.8	174.4	188.9	213.1	252.8	317.1	386.4	482.5
100°	396.7	357.5	336.6	337.1	336.6	357.5	396.7	451.0	527.4	590.3	633.9
102.5°	555.4	524.3	506.8	494.5	506.8	524.3	555.4	597.7	646.1	682.8	684.2
105°	724.2	703.7	686.5	683.8	686.5	703.7	724.2	748.9	762.9	752.6	698.9
107.5°	810.5	803.6	797.8	792.9	797.8	803.6	810.5	810.0	790.9	743.9	656.5
110°	835.5	839.7	838.7	837.5	838.7	839.7	835.5	820.4	782.8	715.0	616.0



TEST NUMBER: P332368-830

CATALOG NUMBER: S123RDIP-S1165D585U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	829.0	842.4	846.4	846.6	846.4	842.4	829.0	801.4	753.1	677.1	576.1
115°	794.6	818.2	829.0	831.7	829.0	818.2	794.6	754.2	695.7	616.6	523.1
117.5°	737.9	765.0	780.5	784.1	780.5	765.0	737.9	695.9	636.4	565.4	484.7
120°	698.3	728.5	741.3	744.6	741.3	728.5	698.3	655.9	601.5	537.1	464.5
122.5°	662.2	689.3	703.5	707.6	703.5	689.3	662.2	624.4	574.0	514.3	448.6
125°	615.0	638.7	652.1	655.9	652.1	638.7	615.0	580.6	537.6	486.0	427.3
127.5°	577.5	597.7	609.8	613.3	609.8	597.7	577.5	546.9	507.7	461.2	408.9
130°	554.3	573.6	584.9	589.2	584.9	573.6	554.3	525.8	489.2	445.6	397.3
132.5°	533.2	552.5	562.5	565.5	562.5	552.5	533.2	506.4	471.6	431.0	386.5
135°	502.1	518.2	527.9	531.7	527.9	518.2	502.1	475.8	445.2	410.2	372.0
137.5°	468.9	485.2	493.4	495.9	493.4	485.2	468.9	446.8	420.2	390.1	358.8
140°	447.8	462.9	471.5	470.9	471.5	462.9	447.8	427.3	404.3	378.4	351.1
142.5°	427.2	440.5	448.3	447.7	448.3	440.5	427.2	409.7	389.6	367.3	343.7
145°	398.9	410.2	414.5	415.6	414.5	410.2	398.9	385.5	369.9	352.7	334.9
147.5°	376.9	384.6	388.7	389.1	388.7	384.6	376.9	366.7	355.7	341.8	327.7
150°	364.5	370.4	373.6	373.6	373.6	370.4	364.5	356.5	346.2	334.9	322.5
152.5°	353.3	358.8	360.7	360.7	360.7	358.8	353.3	346.9	338.5	328.5	317.8
155°	338.7	343.0	344.0	344.6	344.0	343.0	338.7	333.8	327.4	319.3	310.8
157.5°	325.9	329.1	330.0	329.9	330.0	329.1	325.9	321.7	316.7	310.4	303.2
160°	317.7	320.9	320.9	320.4	320.9	320.9	317.7	314.0	310.2	304.8	298.9
162.5°	309.5	312.4	312.4	311.8	312.4	312.4	309.5	307.1	303.8	298.8	293.8
165°	298.9	301.0	300.5	300.5	300.5	301.0	298.9	296.7	294.1	290.3	287.1
167.5°	288.8	290.3	289.7	289.7	289.7	290.3	288.8	287.9	285.9	283.7	281.3
170°	282.8	283.9	283.3	283.3	283.3	283.9	282.8	282.2	281.2	279.0	277.4
172.5°	277.6	278.7	277.8	277.3	277.8	278.7	277.6	277.5	276.8	275.1	274.0
175°	271.0	271.5	271.0	270.4	271.0	271.5	271.0	271.0	271.0	269.8	269.4
177.5°	266.8	267.3	266.5	266.5	266.5	267.3	266.8	267.3	267.3	266.8	266.5
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



TEST NUMBER: P332368-830

CATALOG NUMBER: S123RDIP-S1165D585U830-4F0-1E-UDD-A4

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°	22.7	22.2	22.5	21.6	20.6	19.8	17.8	18.2	17.8	20.0	19.1
90°	12.9	13.5	11.8	10.2	8.6	7.0	5.9	4.8	3.2	2.2	1.0
92.5°	62.4	82.7	91.0	68.2	45.1	31.1	23.1	18.6	14.4	9.9	6.7
95°	258.5	318.8	283.9	195.7	115.6	69.8	48.9	35.0	25.8	19.9	18.3
97.5°	528.6	494.1	361.7	214.7	124.4	80.8	58.1	44.3	36.4	31.8	31.2
100°	615.0	509.1	344.0	202.6	123.1	85.5	64.5	51.7	44.1	40.3	39.8
102.5°	619.3	481.2	318.3	192.4	124.8	91.0	71.8	60.2	53.2	49.8	48.8
105°	586.5	432.3	286.5	184.9	129.6	100.6	83.9	73.6	67.2	64.0	62.4
107.5°	529.1	389.0	266.4	184.4	138.4	112.9	97.5	87.8	81.5	78.4	76.7
110°	492.9	364.5	258.5	186.5	145.7	121.5	106.4	97.3	91.4	88.7	87.1



TEST NUMBER: P332368-830

CATALOG NUMBER: S123RDIP-S1165D585U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	461.6	348.2	254.3	190.9	153.0	130.5	115.9	106.8	100.9	98.2	96.5
115°	423.7	330.6	252.7	197.8	165.0	144.6	130.1	120.9	115.6	112.4	110.2
117.5°	400.8	320.3	253.6	207.1	177.9	157.6	144.2	133.9	129.0	126.3	123.9
120°	388.7	315.6	255.3	214.0	186.0	166.6	153.3	143.0	137.6	135.0	133.4
122.5°	378.8	312.5	258.4	220.5	194.6	175.7	161.4	151.6	145.8	143.1	141.5
125°	366.1	308.6	262.9	230.6	207.0	188.1	173.6	163.4	157.5	154.3	153.3
127.5°	355.0	306.6	268.1	239.0	217.7	199.5	185.0	173.7	167.8	163.7	162.1
130°	348.9	305.4	271.5	244.6	224.1	206.4	191.9	180.6	174.2	169.4	167.8
132.5°	343.3	304.9	274.1	249.8	229.8	212.4	198.4	187.1	179.4	174.1	172.0
135°	336.0	304.3	278.0	256.5	238.2	221.5	207.0	195.7	187.7	181.7	179.6
137.5°	329.7	303.1	280.5	261.4	243.9	227.9	214.5	203.3	194.7	188.9	186.6
140°	325.7	302.7	282.2	264.0	247.8	232.2	218.8	208.0	199.4	194.1	191.4
142.5°	322.3	301.8	283.5	266.6	250.8	235.7	223.1	212.4	204.6	198.8	196.5
145°	317.7	300.5	284.4	269.4	254.9	240.8	228.5	219.3	211.3	206.4	204.8
147.5°	313.2	298.5	284.4	271.1	258.1	245.2	234.7	225.9	219.0	214.1	213.2
150°	310.2	296.7	284.4	271.5	260.2	247.8	238.2	230.6	223.7	219.3	218.8
152.5°	306.8	294.6	283.1	272.4	261.5	250.8	241.6	235.0	228.8	224.5	224.4
155°	301.6	290.9	281.7	272.6	264.0	254.9	247.3	241.4	236.0	232.8	232.8
157.5°	295.8	287.5	279.8	273.1	265.3	258.1	252.2	247.2	242.4	239.9	239.4
160°	291.9	284.9	279.0	273.1	266.6	260.2	254.9	251.1	246.8	244.6	244.6
162.5°	288.0	282.4	277.3	272.7	267.1	261.5	256.9	253.6	250.2	248.5	248.5
165°	282.8	278.5	274.8	271.5	267.7	263.4	259.7	257.5	254.9	253.7	254.3
167.5°	277.8	274.6	272.1	270.6	267.6	264.5	262.1	260.6	258.5	258.1	258.7
170°	274.8	272.0	270.4	269.4	267.2	264.5	263.4	262.3	260.7	260.2	261.3
172.5°	271.7	269.8	269.1	268.9	267.2	264.9	264.3	263.6	262.5	262.3	263.0
175°	268.2	267.2	267.2	267.7	266.6	265.6	265.0	265.0	264.0	264.5	265.0
177.5°	266.0	265.6	266.0	266.8	266.0	265.6	265.6	265.6	265.1	265.6	266.0
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



TEST NUMBER: P332368-830

CATALOG NUMBER: S123RDIP-S1165D585U830-4F0-1E-UDD-A4

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°	16.4	13.1	12.8	11.2	11.5	10.7	11.5	10.7	10.4	10.8	9.8
90°	2.2	3.2	4.8	5.9	7.0	8.6	10.2	11.8	13.5	12.9	13.5
92.5°	9.9	14.4	18.6	23.1	31.1	45.1	68.2	91.0	82.7	62.4	45.2
95°	19.9	25.8	35.0	48.9	69.8	115.6	195.7	283.9	318.8	258.5	193.5
97.5°	31.8	36.4	44.3	58.1	80.8	124.4	214.7	361.7	494.1	528.6	482.5
100°	40.3	44.1	51.7	64.5	85.5	123.1	202.6	344.0	509.1	615.0	633.9
102.5°	49.8	53.2	60.2	71.8	91.0	124.8	192.4	318.3	481.2	619.3	684.2
105°	64.0	67.2	73.6	83.9	100.6	129.6	184.9	286.5	432.3	586.5	698.9
107.5°	78.4	81.5	87.8	97.5	112.9	138.4	184.4	266.4	389.0	529.1	656.5
110°	88.7	91.4	97.3	106.4	121.5	145.7	186.5	258.5	364.5	492.9	616.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	98.2	100.9	106.8	115.9	130.5	153.0	190.9	254.3	348.2	461.6	576.1
115°	112.4	115.6	120.9	130.1	144.6	165.0	197.8	252.7	330.6	423.7	523.1
117.5°	126.3	129.0	133.9	144.2	157.6	177.9	207.1	253.6	320.3	400.8	484.7
120°	135.0	137.6	143.0	153.3	166.6	186.0	214.0	255.3	315.6	388.7	464.5
122.5°	143.1	145.8	151.6	161.4	175.7	194.6	220.5	258.4	312.5	378.8	448.6
125°	154.3	157.5	163.4	173.6	188.1	207.0	230.6	262.9	308.6	366.1	427.3
127.5°	163.7	167.8	173.7	185.0	199.5	217.7	239.0	268.1	306.6	355.0	408.9
130°	169.4	174.2	180.6	191.9	206.4	224.1	244.6	271.5	305.4	348.9	397.3
132.5°	174.1	179.4	187.1	198.4	212.4	229.8	249.8	274.1	304.9	343.3	386.5
135°	181.7	187.7	195.7	207.0	221.5	238.2	256.5	278.0	304.3	336.0	372.0
137.5°	188.9	194.7	203.3	214.5	227.9	243.9	261.4	280.5	303.1	329.7	358.8
140°	194.1	199.4	208.0	218.8	232.2	247.8	264.0	282.2	302.7	325.7	351.1
142.5°	198.8	204.6	212.4	223.1	235.7	250.8	266.6	283.5	301.8	322.3	343.7
145°	206.4	211.3	219.3	228.5	240.8	254.9	269.4	284.4	300.5	317.7	334.9
147.5°	214.1	219.0	225.9	234.7	245.2	258.1	271.1	284.4	298.5	313.2	327.7
150°	219.3	223.7	230.6	238.2	247.8	260.2	271.5	284.4	296.7	310.2	322.5
152.5°	224.5	228.8	235.0	241.6	250.8	261.5	272.4	283.1	294.6	306.8	317.8
155°	232.8	236.0	241.4	247.3	254.9	264.0	272.6	281.7	290.9	301.6	310.8
157.5°	239.9	242.4	247.2	252.2	258.1	265.3	273.1	279.8	287.5	295.8	303.2
160°	244.6	246.8	251.1	254.9	260.2	266.6	273.1	279.0	284.9	291.9	298.9
162.5°	248.5	250.2	253.6	256.9	261.5	267.1	272.7	277.3	282.4	288.0	293.8
165°	253.7	254.9	257.5	259.7	263.4	267.7	271.5	274.8	278.5	282.8	287.1
167.5°	258.1	258.5	260.6	262.1	264.5	267.6	270.6	272.1	274.6	277.8	281.3
170°	260.2	260.7	262.3	263.4	264.5	267.2	269.4	270.4	272.0	274.8	277.4
172.5°	262.3	262.5	263.6	264.3	264.9	267.2	268.9	269.1	269.8	271.7	274.0
175°	264.5	264.0	265.0	265.0	265.6	266.6	267.7	267.2	267.2	268.2	269.4
177.5°	265.6	265.1	265.6	265.6	265.6	266.0	266.8	266.0	265.6	266.0	266.5
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



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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°	9.9	10.0	9.6	9.5	9.0	10.4	9.0
90°	13.9	14.5	15.6	15.1	15.6	16.1	15.6
92.5°	35.9	31.8	28.9	28.0	26.3	26.9	25.9
95°	131.2	102.6	83.3	73.1	68.2	64.5	62.4
97.5°	386.4	317.1	252.8	213.1	188.9	174.4	169.8
100°	590.3	527.4	451.0	396.7	357.5	336.6	337.1
102.5°	682.8	646.1	597.7	555.4	524.3	506.8	494.5
105°	752.6	762.9	748.9	724.2	703.7	686.5	683.8
107.5°	743.9	790.9	810.0	810.5	803.6	797.8	792.9
110°	715.0	782.8	820.4	835.5	839.7	838.7	837.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	677.1	753.1	801.4	829.0	842.4	846.4	846.6
115°	616.6	695.7	754.2	794.6	818.2	829.0	831.7
117.5°	565.4	636.4	695.9	737.9	765.0	780.5	784.1
120°	537.1	601.5	655.9	698.3	728.5	741.3	744.6
122.5°	514.3	574.0	624.4	662.2	689.3	703.5	707.6
125°	486.0	537.6	580.6	615.0	638.7	652.1	655.9
127.5°	461.2	507.7	546.9	577.5	597.7	609.8	613.3
130°	445.6	489.2	525.8	554.3	573.6	584.9	589.2
132.5°	431.0	471.6	506.4	533.2	552.5	562.5	565.5
135°	410.2	445.2	475.8	502.1	518.2	527.9	531.7
137.5°	390.1	420.2	446.8	468.9	485.2	493.4	495.9
140°	378.4	404.3	427.3	447.8	462.9	471.5	470.9
142.5°	367.3	389.6	409.7	427.2	440.5	448.3	447.7
145°	352.7	369.9	385.5	398.9	410.2	414.5	415.6
147.5°	341.8	355.7	366.7	376.9	384.6	388.7	389.1
150°	334.9	346.2	356.5	364.5	370.4	373.6	373.6
152.5°	328.5	338.5	346.9	353.3	358.8	360.7	360.7
155°	319.3	327.4	333.8	338.7	343.0	344.0	344.6
157.5°	310.4	316.7	321.7	325.9	329.1	330.0	329.9
160°	304.8	310.2	314.0	317.7	320.9	320.9	320.4
162.5°	298.8	303.8	307.1	309.5	312.4	312.4	311.8
165°	290.3	294.1	296.7	298.9	301.0	300.5	300.5
167.5°	283.7	285.9	287.9	288.8	290.3	289.7	289.7
170°	279.0	281.2	282.2	282.8	283.9	283.3	283.3
172.5°	275.1	276.8	277.5	277.6	278.7	277.8	277.3
175°	269.8	271.0	271.0	271.0	271.5	271.0	270.4
177.5°	266.8	267.3	267.3	266.8	267.3	266.5	266.5
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6

(END OF REPORT)