

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: P332474-930

Luminaire Tested: **S123RDIW-S1165D755U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332474-930  
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-S1165D755U930-4F0-1E-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**

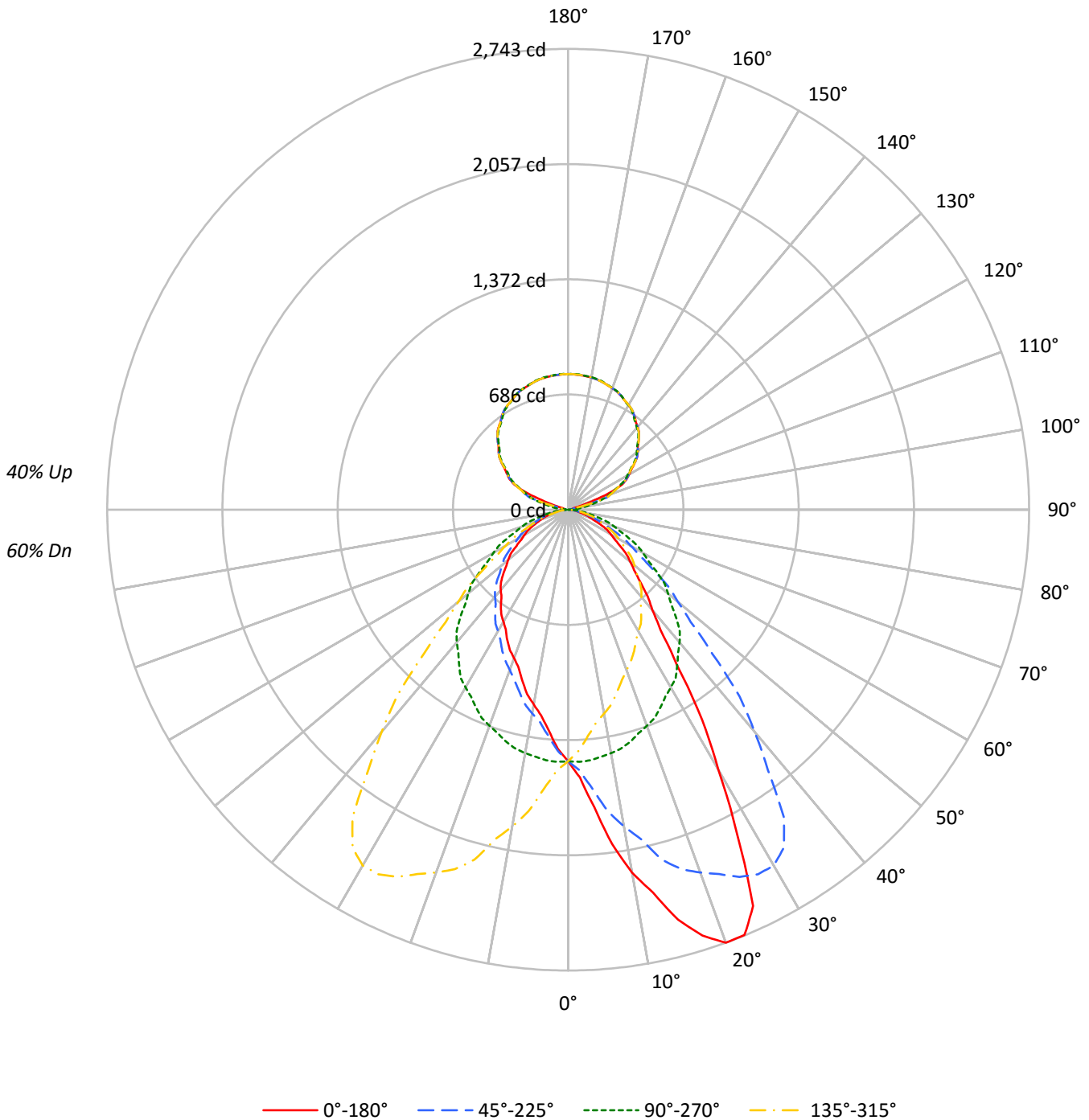
Lumens per Lamp: N/A  
Luminaire Lumens: 6191.9 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 59.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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

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

	0°	90°	180°	270°
0°	16113	16113	16113	16113
5°	19207	16181	14249	16181
10°	23981	16088	12873	16088
15°	28149	15924	11739	15924
20°	31416	15678	10775	15678
25°	30914	15419	10183	15419
30°	22222	15181	9573	15181
35°	14837	14870	9179	14870
40°	10932	14497	8769	14497
45°	9168	13842	8369	13842
50°	8090	12983	7812	12983
55°	7096	12001	7047	12001
60°	6318	11063	6456	11063
65°	5547	10055	6006	10055
70°	4356	9155	5485	9155
75°	3839	7993	5011	7993
80°	3335	6794	4928	6794
85°	2692	5459	5224	5459



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.2	2.4
10°-20°	459.9	7.4
20°-30°	722.5	11.7
30°-40°	753.8	12.2
40°-50°	645.1	10.4
50°-60°	491.7	7.9
60°-70°	315.1	5.1
70°-80°	151.6	2.4
80°-90°	42.4	0.7
90°-100°	29.4	0.5
100°-110°	139.9	2.3
110°-120°	336.1	5.4
120°-130°	428.0	6.9
130°-140°	457.3	7.4
140°-150°	427.6	6.9
150°-160°	344.9	5.6
160°-170°	222.6	3.6
170°-180°	76.7	1.2
0°-30°	1329.6	21.5
0°-40°	2083.4	33.6
0°-60°	3220.2	52.0
0°-90°	3729.3	60.2
90°-120°	505.4	8.2
90°-150°	1818.3	29.4
90°-180°	2463.0	39.8
0°-180°	6191.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1497	1497	1497	1497	1497	
5°	1778	1498	1319	1498	1778	184
15°	2526	1429	1053	1429	2526	716
25°	2603	1298	857	1298	2603	1119
35°	1129	1132	698	1132	1129	740
45°	602	909	550	909	602	474
55°	378	640	376	640	378	342
65°	218	395	236	395	218	214
75°	92	192	120	192	92	99
85°	22	44	42	44	22	25
90°	18	1	18	1	18	9
95°	23	37	23	37	23	19
105°	26	179	26	179	26	60
115°	353	335	353	335	353	326
125°	482	473	482	473	482	431
135°	594	589	594	589	594	458
145°	686	679	686	679	686	428
155°	747	748	747	748	747	344
165°	787	789	787	789	787	222
175°	804	808	804	808	804	77
180°	808	808	808	808	808	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1594.3	1596.4	1589.7	1588.7	1580.9	1578.9	1578.9	1568.1	1561.5	1552.8	1547.7
5°	1777.6	1787.9	1782.7	1771.2	1751.9	1747.4	1735.3	1716.0	1694.3	1667.4	1654.6
7.5°	2006.5	2020.5	2015.1	1997.2	1977.1	1960.9	1926.5	1894.6	1849.8	1810.6	1777.0
10°	2194.1	2179.4	2167.8	2150.5	2131.9	2101.8	2066.0	2016.6	1959.6	1914.7	1864.8
12.5°	2334.5	2332.2	2317.5	2299.7	2273.5	2244.8	2200.7	2140.6	2074.4	2009.5	1952.4
15°	2526.0	2529.9	2520.3	2501.7	2464.5	2413.9	2347.2	2322.3	2227.4	2157.0	2086.4
17.5°	2658.5	2657.8	2656.5	2630.7	2592.8	2556.8	2495.0	2429.3	2343.4	2244.1	2149.1
20°	2742.6	2736.2	2737.5	2708.7	2680.5	2638.8	2578.5	2483.1	2412.6	2297.9	2199.8
22.5°	2740.5	2739.3	2744.1	2734.3	2713.8	2681.8	2634.5	2553.8	2463.9	2348.1	2237.8
25°	2602.9	2597.8	2628.0	2636.3	2669.0	2674.7	2660.6	2616.4	2531.2	2412.0	2275.5
27.5°	2178.5	2175.6	2231.6	2301.5	2390.2	2459.1	2525.8	2557.9	2531.2	2445.8	2309.1
30°	1787.9	1848.0	1876.2	1977.5	2090.3	2224.9	2342.8	2454.9	2482.4	2445.3	2333.1
32.5°	1484.3	1536.9	1560.5	1647.4	1752.5	1910.1	2086.9	2245.7	2357.9	2386.3	2318.8
35°	1129.1	1129.8	1183.6	1222.0	1319.4	1481.6	1653.3	1866.0	2077.5	2237.7	2254.3
37.5°	901.0	904.2	936.7	975.0	1048.1	1133.8	1285.1	1461.9	1706.2	1952.2	2096.3
40°	778.0	783.7	808.0	845.9	898.4	963.1	1081.0	1247.7	1451.4	1725.0	1948.6
42.5°	699.0	708.3	720.9	750.0	782.5	843.2	938.5	1067.2	1252.5	1511.2	1769.3
45°	602.3	607.5	617.1	630.6	660.0	702.3	766.4	852.9	1006.7	1215.0	1473.2
47.5°	531.3	528.6	538.7	549.7	569.3	598.1	641.1	711.7	821.4	988.5	1207.5
50°	483.1	482.5	489.6	497.9	516.5	537.6	572.9	626.1	713.2	851.7	1052.2
52.5°	438.1	440.5	445.5	455.8	469.3	486.4	518.0	556.4	631.2	750.6	917.9
55°	378.1	380.0	387.0	392.8	402.4	419.7	439.6	471.7	522.9	606.2	744.0
57.5°	327.3	326.4	333.2	334.6	345.5	359.6	375.0	399.8	437.0	499.0	591.7
60°	293.5	291.6	297.3	301.8	307.6	319.1	331.9	356.3	385.8	431.3	510.7
62.5°	262.7	261.8	266.0	270.5	275.3	285.8	296.5	315.3	338.6	376.9	439.9
65°	217.8	219.8	221.7	223.6	226.2	232.6	242.9	255.7	271.7	298.6	344.1
67.5°	171.2	173.2	173.8	177.7	183.3	187.3	193.6	205.0	216.1	238.8	264.6
70°	138.4	137.8	138.4	140.3	147.4	154.4	162.7	171.1	178.1	194.1	216.0
72.5°	119.0	117.8	119.4	119.8	123.3	125.2	130.4	138.3	147.4	158.2	173.9
75°	92.3	92.3	92.3	92.3	94.8	96.1	98.1	100.0	103.1	108.3	119.8
77.5°	68.2	68.3	69.2	69.9	70.4	71.1	72.3	74.2	75.3	78.0	83.1
80°	53.8	54.5	53.8	54.5	54.5	55.8	56.4	58.3	58.9	62.1	64.1
82.5°	40.5	40.1	40.5	41.2	41.2	42.4	42.6	43.9	44.1	45.7	47.7
85°	21.8	20.5	21.8	21.1	22.4	21.1	21.8	23.1	23.1	23.7	26.3
87.5°	8.7	9.7	8.6	9.0	9.0	9.5	9.4	9.2	10.2	9.5	9.7
90°	18.0	17.7	17.4	17.2	17.0	16.6	16.0	15.5	14.9	14.4	12.6
92.5°	19.9	19.7	19.6	19.4	19.2	18.8	17.9	17.0	16.2	15.3	14.0
95°	22.8	22.8	22.8	22.8	22.8	22.3	21.4	20.5	19.6	18.6	17.1
97.5°	24.7	24.6	24.5	24.3	24.2	23.6	22.5	21.4	20.4	19.3	28.9
100°	25.2	25.0	24.9	24.8	24.7	24.1	23.0	21.9	20.9	19.8	40.6
102.5°	25.7	25.4	25.2	24.9	24.7	26.3	29.6	32.9	36.2	39.5	62.2
105°	26.4	26.2	25.8	25.6	25.4	37.0	60.6	84.2	107.8	131.4	143.4
107.5°	82.9	100.7	118.5	136.2	154.1	171.6	188.9	206.2	223.5	240.8	239.0
110°	165.0	184.0	203.1	222.2	241.2	253.0	257.4	261.8	266.2	270.6	269.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	283.1	287.1	291.1	295.1	299.1	301.2	301.1	301.0	300.9	300.8	299.4
115°	352.8	352.2	351.7	351.1	350.7	349.7	348.4	347.1	345.7	344.4	343.2
117.5°	391.9	391.8	391.7	391.6	391.4	390.9	389.8	388.7	387.7	386.6	386.0
120°	418.7	418.7	418.7	418.7	418.7	418.2	417.2	416.1	415.1	413.9	413.6
122.5°	445.2	445.1	444.9	444.8	444.7	444.3	443.5	442.8	442.1	441.3	440.8
125°	482.3	482.1	481.8	481.6	481.3	481.0	480.8	480.5	480.2	480.0	479.4
127.5°	518.1	518.4	518.6	518.9	519.2	519.1	518.7	518.3	517.8	517.4	516.7
130°	541.1	541.4	541.7	541.9	542.3	542.1	541.5	541.0	540.5	540.0	539.4
132.5°	562.2	562.6	563.0	563.4	563.8	563.7	563.1	562.6	562.1	561.6	561.1
135°	594.5	594.9	595.3	595.7	596.1	596.1	595.7	595.3	594.9	594.5	594.0
137.5°	624.9	625.2	625.4	625.7	626.0	625.8	625.2	624.5	623.9	623.2	623.0
140°	643.1	643.4	643.7	643.9	644.2	644.1	643.5	643.0	642.5	642.0	641.6
142.5°	659.9	660.3	660.7	661.0	661.5	661.4	661.0	660.6	660.1	659.7	659.3
145°	685.7	685.7	685.7	685.7	685.7	685.6	685.3	685.1	684.8	684.5	684.3
147.5°	704.9	705.6	706.1	706.8	707.4	707.6	707.3	707.0	706.8	706.5	706.2
150°	719.3	719.7	720.2	720.6	721.0	721.0	720.7	720.5	720.2	719.9	719.7
152.5°	730.8	731.5	732.1	732.7	733.3	733.4	732.9	732.4	731.9	731.5	731.3
155°	746.9	747.7	748.5	749.3	750.2	750.2	749.5	748.9	748.2	747.5	747.4
157.5°	760.5	761.6	762.5	763.6	764.7	764.8	763.9	763.2	762.4	761.6	761.7
160°	769.2	770.1	771.0	771.9	772.9	772.9	772.2	771.4	770.5	769.7	769.9
162.5°	777.3	778.1	778.9	779.8	780.6	780.6	779.7	778.8	777.9	776.9	777.1
165°	787.1	788.1	789.0	789.9	790.8	790.8	789.7	788.6	787.6	786.5	786.7
167.5°	794.2	795.2	796.3	797.4	798.5	798.5	797.4	796.3	795.2	794.2	794.2
170°	798.5	799.6	800.6	801.8	802.8	802.8	801.8	800.6	799.6	798.5	798.5
172.5°	801.0	802.1	803.3	804.5	805.6	805.7	804.6	803.6	802.5	801.4	801.3
175°	804.5	805.6	806.7	807.7	808.8	808.9	808.0	807.0	806.1	805.1	805.0
177.5°	805.6	806.7	807.7	808.8	809.8	810.0	809.1	808.3	807.4	806.6	806.5
180°	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1545.6	1544.1	1536.9	1528.7	1517.9	1510.7	1505.1	1502.0	1492.8	1481.6	1473.8
5°	1641.1	1621.9	1601.3	1576.4	1553.3	1529.6	1514.8	1497.5	1476.4	1452.7	1436.1
7.5°	1743.4	1705.7	1665.1	1623.2	1581.8	1544.6	1511.8	1483.7	1450.0	1416.0	1392.2
10°	1821.8	1766.7	1709.7	1651.3	1598.1	1548.2	1509.7	1471.9	1431.6	1392.4	1363.0
12.5°	1893.0	1820.5	1754.8	1683.1	1615.1	1555.3	1500.0	1455.5	1407.0	1365.3	1331.7
15°	1983.3	1908.9	1829.5	1720.5	1630.2	1554.6	1487.3	1429.0	1370.0	1318.7	1286.1
17.5°	2067.6	1955.7	1848.9	1758.1	1640.7	1546.2	1464.1	1394.4	1329.7	1275.3	1235.1
20°	2102.5	1994.1	1878.2	1762.2	1646.8	1541.2	1445.6	1368.7	1301.5	1239.9	1202.8
22.5°	2123.4	2000.8	1878.7	1754.0	1631.5	1521.7	1427.2	1342.6	1269.7	1211.2	1165.4
25°	2148.0	2001.9	1867.3	1744.3	1619.3	1500.2	1388.0	1298.3	1219.4	1157.3	1108.6
27.5°	2164.1	1992.3	1833.2	1696.5	1569.7	1451.0	1348.3	1253.1	1173.2	1107.4	1055.2
30°	2167.1	1984.5	1807.0	1659.1	1530.2	1421.3	1312.4	1221.4	1136.8	1066.9	1018.2
32.5°	2171.3	1965.6	1771.6	1614.5	1482.5	1374.7	1275.9	1189.0	1102.4	1033.6	983.9
35°	2154.3	1955.1	1718.0	1537.2	1405.2	1300.8	1211.8	1131.6	1046.4	979.7	929.2
37.5°	2081.5	1913.4	1662.4	1450.4	1312.4	1215.6	1143.0	1073.2	995.1	923.2	875.5
40°	2008.2	1872.4	1619.3	1397.6	1253.4	1154.1	1088.8	1031.7	956.1	888.8	837.6
42.5°	1899.1	1816.6	1578.3	1342.2	1186.7	1091.0	1035.9	982.4	916.1	847.7	799.6
45°	1698.8	1709.7	1494.4	1254.0	1094.5	998.3	946.5	909.3	850.4	793.9	744.6
47.5°	1447.6	1549.5	1395.8	1160.1	997.2	907.0	861.6	829.2	789.5	734.1	689.1
50°	1283.5	1429.0	1316.9	1097.1	936.2	846.5	801.6	775.3	740.8	697.2	654.3
52.5°	1132.3	1288.5	1221.5	1026.8	870.1	788.1	744.2	722.6	695.1	654.1	615.3
55°	923.4	1081.7	1066.3	920.8	770.9	697.2	663.9	639.5	620.9	590.2	559.5
57.5°	746.9	897.0	904.9	802.9	683.5	610.7	582.0	563.6	551.5	528.3	499.9
60°	635.7	773.5	800.4	723.5	620.9	556.8	528.6	513.9	504.3	485.8	463.9
62.5°	543.4	660.6	691.1	635.8	560.9	501.0	478.9	464.7	458.2	442.1	422.9
65°	415.9	513.3	542.7	512.0	472.9	424.9	406.9	394.8	389.0	380.0	365.9
67.5°	312.7	383.7	416.0	394.4	380.3	349.8	338.4	331.9	326.8	320.7	308.8
70°	251.2	303.7	337.0	331.3	319.8	303.7	295.4	290.9	285.8	280.7	270.4
72.5°	201.9	238.1	269.4	272.3	262.9	259.7	252.3	250.5	247.4	241.2	235.5
75°	134.0	158.9	180.7	189.1	192.9	196.1	192.9	192.2	191.6	186.5	183.3
77.5°	87.8	101.3	115.0	129.2	135.2	139.6	140.6	142.9	141.2	138.5	137.0
80°	67.3	70.5	80.1	92.3	101.9	105.7	108.3	109.6	108.9	108.3	105.7
82.5°	48.8	51.5	56.0	64.6	72.6	79.1	80.6	80.4	81.8	82.2	80.1
85°	26.3	26.9	28.2	29.5	34.0	41.0	43.0	44.2	45.5	45.5	41.7
87.5°	10.4	9.5	10.2	9.9	11.2	11.4	14.3	16.6	17.3	15.5	15.8
90°	10.9	9.2	7.5	6.0	4.6	3.3	2.0	0.6	2.0	3.3	4.6
92.5°	12.7	11.4	10.1	9.7	10.0	10.4	10.8	11.2	10.8	10.4	10.0
95°	15.7	14.2	12.7	14.8	20.2	25.7	31.1	36.6	31.1	25.7	20.2
97.5°	38.5	48.1	57.7	63.8	66.2	68.6	71.1	73.5	71.1	68.6	66.2
100°	61.4	82.2	103.0	112.0	109.4	106.7	104.0	101.4	104.0	106.7	109.4
102.5°	84.9	107.6	130.4	140.7	138.8	136.9	135.0	133.1	135.0	136.9	138.8
105°	155.4	167.4	179.4	184.7	183.2	181.7	180.3	178.8	180.3	181.7	183.2
107.5°	237.0	235.1	233.3	231.7	230.6	229.3	228.2	227.0	228.2	229.3	230.6
110°	267.7	266.2	264.7	263.4	262.4	261.3	260.2	259.2	260.2	261.3	262.4





TEST NUMBER: P332474-930

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	297.9	296.4	295.0	293.8	292.8	291.8	290.8	289.9	290.8	291.8	292.8
115°	341.9	340.8	339.6	338.6	337.8	337.0	336.1	335.3	336.1	337.0	337.8
117.5°	385.4	384.7	384.2	383.4	382.4	381.4	380.4	379.4	380.4	381.4	382.4
120°	413.2	412.8	412.4	411.6	410.3	409.2	408.0	406.8	408.0	409.2	410.3
122.5°	440.3	439.8	439.3	438.5	437.6	436.6	435.6	434.6	435.6	436.6	437.6
125°	478.9	478.3	477.8	477.0	476.0	474.9	473.9	472.8	473.9	474.9	476.0
127.5°	516.1	515.5	514.9	514.0	512.9	511.8	510.8	509.7	510.8	511.8	512.9
130°	538.9	538.3	537.9	537.0	536.0	534.9	533.9	532.7	533.9	534.9	536.0
132.5°	560.7	560.3	559.9	559.1	558.0	556.9	555.9	554.8	555.9	556.9	558.0
135°	593.5	593.0	592.4	591.7	590.9	590.1	589.4	588.6	589.4	590.1	590.9
137.5°	622.6	622.3	622.1	621.4	620.4	619.4	618.3	617.3	618.3	619.4	620.4
140°	641.2	640.7	640.3	639.8	639.0	638.1	637.3	636.5	637.3	638.1	639.0
142.5°	658.9	658.5	658.1	657.5	656.7	655.9	655.1	654.3	655.1	655.9	656.7
145°	684.0	683.7	683.5	682.9	681.9	681.0	680.0	679.1	680.0	681.0	681.9
147.5°	706.0	705.7	705.4	705.0	704.3	703.8	703.1	702.5	703.1	703.8	704.3
150°	719.4	719.2	718.8	718.5	718.1	717.7	717.3	717.0	717.3	717.7	718.1
152.5°	731.2	731.0	730.8	730.7	730.4	730.3	730.1	729.9	730.1	730.3	730.4
155°	747.3	747.1	747.0	747.1	747.3	747.6	747.9	748.1	747.9	747.6	747.3
157.5°	761.8	762.0	762.1	762.2	762.2	762.2	762.3	762.3	762.3	762.2	762.2
160°	770.0	770.1	770.3	770.4	770.5	770.7	770.8	770.9	770.8	770.7	770.5
162.5°	777.2	777.3	777.5	777.7	778.0	778.4	778.8	779.1	778.8	778.4	778.0
165°	786.8	786.9	787.1	787.3	787.7	788.1	788.6	789.0	788.6	788.1	787.7
167.5°	794.2	794.2	794.2	794.5	795.0	795.6	796.1	796.6	796.1	795.6	795.0
170°	798.5	798.5	798.5	798.8	799.3	799.9	800.4	801.0	800.4	799.9	799.3
172.5°	801.2	801.1	801.0	801.3	801.9	802.5	803.2	803.8	803.2	802.5	801.9
175°	804.9	804.7	804.6	804.9	805.5	806.2	806.8	807.6	806.8	806.2	805.5
177.5°	806.3	806.2	806.2	806.3	806.9	807.4	808.0	808.5	808.0	807.4	806.9
180°	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6



TEST NUMBER: P332474-930

CATALOG NUMBER: S123RDIW-S1165D755U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1471.3	1464.6	1460.0	1449.8	1443.1	1435.9	1428.7	1433.4	1432.8	1432.3	1432.3
5°	1422.0	1407.2	1393.8	1376.5	1365.5	1352.1	1341.8	1340.5	1343.1	1334.2	1329.0
7.5°	1373.0	1352.8	1333.7	1314.7	1294.5	1278.3	1268.1	1263.4	1256.9	1251.3	1245.6
10°	1338.6	1314.9	1296.3	1272.6	1250.8	1231.6	1219.4	1211.1	1206.6	1202.2	1193.8
12.5°	1303.3	1280.1	1256.4	1229.6	1208.8	1186.5	1177.4	1168.1	1159.4	1154.5	1143.0
15°	1251.5	1221.4	1196.4	1168.2	1145.1	1123.3	1110.5	1091.9	1089.3	1083.0	1071.4
17.5°	1199.5	1166.9	1132.5	1111.5	1085.5	1062.8	1043.3	1037.1	1018.7	1011.8	1001.8
20°	1158.5	1128.5	1102.2	1074.6	1036.8	1015.7	1000.3	992.0	977.2	968.2	961.8
22.5°	1123.2	1092.6	1062.2	1030.0	998.9	975.2	963.9	951.0	942.9	930.3	923.4
25°	1072.7	1039.3	1002.8	968.2	945.8	927.9	910.0	898.4	886.9	881.1	868.3
27.5°	1014.0	979.2	945.0	918.8	891.2	873.5	857.3	847.0	833.2	823.5	816.4
30°	981.7	940.7	911.2	887.5	852.2	835.6	823.5	810.7	800.4	790.1	783.1
32.5°	944.3	906.9	878.9	849.5	822.6	804.3	788.6	777.3	768.6	758.8	751.8
35°	885.6	854.2	825.3	795.9	776.0	757.4	738.8	729.2	720.9	711.9	705.6
37.5°	832.5	803.2	775.8	747.8	723.2	708.1	693.1	685.7	674.5	668.5	661.9
40°	799.7	770.9	741.4	714.5	688.8	677.4	663.9	653.0	642.7	638.2	631.2
42.5°	763.9	735.0	710.1	681.2	660.1	644.5	632.1	620.2	612.5	605.9	601.9
45°	710.6	685.0	660.6	631.9	612.0	598.5	584.4	573.5	566.5	562.0	554.9
47.5°	659.0	633.4	608.6	583.5	564.3	548.9	534.8	527.3	517.9	512.4	507.6
50°	621.6	598.5	572.3	549.2	529.9	514.5	503.0	493.4	485.1	478.0	474.8
52.5°	587.3	562.6	540.0	518.4	498.1	480.7	470.2	460.1	453.8	445.7	442.1
55°	530.6	506.9	487.6	466.5	446.6	431.9	419.1	410.1	403.7	394.8	389.6
57.5°	477.4	456.2	433.2	414.8	394.4	381.9	371.3	359.1	351.3	344.2	339.2
60°	441.5	417.2	397.3	380.0	362.1	346.0	336.4	326.8	318.5	311.4	307.0
62.5°	404.1	382.8	363.9	345.1	328.7	314.8	303.6	295.5	288.2	283.7	279.2
65°	346.7	330.0	310.8	295.4	280.1	269.8	260.8	253.7	248.7	245.4	241.6
67.5°	293.8	277.7	260.9	245.8	235.5	227.7	221.8	215.8	213.3	209.1	206.6
70°	259.5	242.9	228.1	216.6	206.4	200.6	196.7	192.2	189.6	184.6	182.0
72.5°	222.1	210.0	199.4	190.0	181.7	176.5	171.6	166.1	162.0	156.4	153.8
75°	175.0	164.0	155.7	149.3	144.1	137.1	130.1	124.3	122.4	120.5	119.8
77.5°	129.6	122.6	116.6	111.2	104.8	99.7	98.2	96.9	96.5	95.5	95.5
80°	101.9	95.5	91.0	84.5	80.7	80.7	80.7	79.5	80.1	80.1	80.1
82.5°	75.7	69.9	67.4	65.1	64.3	64.8	64.8	65.1	64.7	65.7	65.2
85°	39.1	39.7	41.0	40.4	41.0	41.0	42.3	41.7	42.3	41.0	42.3
87.5°	15.6	17.4	18.3	19.1	20.0	19.8	20.4	20.5	21.1	21.3	21.4
90°	6.0	7.5	9.2	10.9	12.6	14.4	14.9	15.5	16.0	16.6	17.0
92.5°	9.7	10.1	11.4	12.7	14.0	15.3	16.2	17.0	17.9	18.8	19.2
95°	14.8	12.7	14.2	15.7	17.1	18.6	19.6	20.5	21.4	22.3	22.8
97.5°	63.8	57.7	48.1	38.5	28.9	19.3	20.4	21.4	22.5	23.6	24.2
100°	112.0	103.0	82.2	61.4	40.6	19.8	20.9	21.9	23.0	24.1	24.7
102.5°	140.7	130.4	107.6	84.9	62.2	39.5	36.2	32.9	29.6	26.3	24.7
105°	184.7	179.4	167.4	155.4	143.4	131.4	107.8	84.2	60.6	37.0	25.4
107.5°	231.7	233.3	235.1	237.0	239.0	240.8	223.5	206.2	188.9	171.6	154.1
110°	263.4	264.7	266.2	267.7	269.1	270.6	266.2	261.8	257.4	253.0	241.2



TEST NUMBER: P332474-930

CATALOG NUMBER: S123RDIW-S1165D755U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	293.8	295.0	296.4	297.9	299.4	300.8	300.9	301.0	301.1	301.2	299.1
115°	338.6	339.6	340.8	341.9	343.2	344.4	345.7	347.1	348.4	349.7	350.7
117.5°	383.4	384.2	384.7	385.4	386.0	386.6	387.7	388.7	389.8	390.9	391.4
120°	411.6	412.4	412.8	413.2	413.6	413.9	415.1	416.1	417.2	418.2	418.7
122.5°	438.5	439.3	439.8	440.3	440.8	441.3	442.1	442.8	443.5	444.3	444.7
125°	477.0	477.8	478.3	478.9	479.4	480.0	480.2	480.5	480.8	481.0	481.3
127.5°	514.0	514.9	515.5	516.1	516.7	517.4	517.8	518.3	518.7	519.1	519.2
130°	537.0	537.9	538.3	538.9	539.4	540.0	540.5	541.0	541.5	542.1	542.3
132.5°	559.1	559.9	560.3	560.7	561.1	561.6	562.1	562.6	563.1	563.7	563.8
135°	591.7	592.4	593.0	593.5	594.0	594.5	594.9	595.3	595.7	596.1	596.1
137.5°	621.4	622.1	622.3	622.6	623.0	623.2	623.9	624.5	625.2	625.8	626.0
140°	639.8	640.3	640.7	641.2	641.6	642.0	642.5	643.0	643.5	644.1	644.2
142.5°	657.5	658.1	658.5	658.9	659.3	659.7	660.1	660.6	661.0	661.4	661.5
145°	682.9	683.5	683.7	684.0	684.3	684.5	684.8	685.1	685.3	685.6	685.7
147.5°	705.0	705.4	705.7	706.0	706.2	706.5	706.8	707.0	707.3	707.6	707.4
150°	718.5	718.8	719.2	719.4	719.7	719.9	720.2	720.5	720.7	721.0	721.0
152.5°	730.7	730.8	731.0	731.2	731.3	731.5	731.9	732.4	732.9	733.4	733.3
155°	747.1	747.0	747.1	747.3	747.4	747.5	748.2	748.9	749.5	750.2	750.2
157.5°	762.2	762.1	762.0	761.8	761.7	761.6	762.4	763.2	763.9	764.8	764.7
160°	770.4	770.3	770.1	770.0	769.9	769.7	770.5	771.4	772.2	772.9	772.9
162.5°	777.7	777.5	777.3	777.2	777.1	776.9	777.9	778.8	779.7	780.6	780.6
165°	787.3	787.1	786.9	786.8	786.7	786.5	787.6	788.6	789.7	790.8	790.8
167.5°	794.5	794.2	794.2	794.2	794.2	794.2	795.2	796.3	797.4	798.5	798.5
170°	798.8	798.5	798.5	798.5	798.5	798.5	799.6	800.6	801.8	802.8	802.8
172.5°	801.3	801.0	801.1	801.2	801.3	801.4	802.5	803.6	804.6	805.7	805.6
175°	804.9	804.6	804.7	804.9	805.0	805.1	806.1	807.0	808.0	808.9	808.8
177.5°	806.3	806.2	806.2	806.3	806.5	806.6	807.4	808.3	809.1	810.0	809.8
180°	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6



TEST NUMBER: P332474-930

CATALOG NUMBER: S123RDIW-S1165D755U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1426.2	1425.6	1426.2	1424.1	1426.2	1425.6	1426.2	1432.3	1432.3	1432.8	1433.4
5°	1327.1	1326.5	1324.5	1318.7	1324.5	1326.5	1327.1	1329.0	1334.2	1343.1	1340.5
7.5°	1240.6	1239.7	1234.0	1234.2	1234.0	1239.7	1240.6	1245.6	1251.3	1256.9	1263.4
10°	1189.4	1189.9	1182.3	1177.8	1182.3	1189.9	1189.4	1193.8	1202.2	1206.6	1211.1
12.5°	1139.6	1136.7	1130.5	1125.5	1130.5	1136.7	1139.6	1143.0	1154.5	1159.4	1168.1
15°	1074.0	1067.6	1052.2	1053.4	1052.2	1067.6	1074.0	1071.4	1083.0	1089.3	1091.9
17.5°	996.7	992.0	991.7	982.8	991.7	992.0	996.7	1001.8	1011.8	1018.7	1037.1
20°	951.6	948.4	949.7	940.7	949.7	948.4	951.6	961.8	968.2	977.2	992.0
22.5°	916.2	913.0	907.6	904.8	907.6	913.0	916.2	923.4	930.3	942.9	951.0
25°	864.5	859.3	854.2	857.4	854.2	859.3	864.5	868.3	881.1	886.9	898.4
27.5°	812.7	808.9	803.7	803.1	803.7	808.9	812.7	816.4	823.5	833.2	847.0
30°	779.8	776.0	773.5	770.2	773.5	776.0	779.8	783.1	790.1	800.4	810.7
32.5°	746.6	745.8	741.2	740.5	741.2	745.8	746.6	751.8	758.8	768.6	777.3
35°	703.0	699.1	697.8	698.5	697.8	699.1	703.0	705.6	711.9	720.9	729.2
37.5°	661.5	656.4	654.1	651.8	654.1	656.4	661.5	661.9	668.5	674.5	685.7
40°	631.9	626.7	625.4	624.1	625.4	626.7	631.9	631.2	638.2	642.7	653.0
42.5°	598.5	596.5	595.7	593.4	595.7	596.5	598.5	601.9	605.9	612.5	620.2
45°	553.0	552.4	548.5	549.8	548.5	552.4	553.0	554.9	562.0	566.5	573.5
47.5°	505.1	502.2	499.5	501.3	499.5	502.2	505.1	507.6	512.4	517.9	527.3
50°	472.3	471.0	465.2	466.5	465.2	471.0	472.3	474.8	478.0	485.1	493.4
52.5°	439.4	434.6	432.4	431.6	432.4	434.6	439.4	442.1	445.7	453.8	460.1
55°	385.1	379.4	376.7	375.5	376.7	379.4	385.1	389.6	394.8	403.7	410.1
57.5°	331.8	330.3	328.2	329.6	328.2	330.3	331.8	339.2	344.2	351.3	359.1
60°	300.5	300.5	300.5	299.9	300.5	300.5	300.5	307.0	311.4	318.5	326.8
62.5°	276.5	274.9	274.4	275.3	274.4	274.9	276.5	279.2	283.7	288.2	295.5
65°	239.7	239.0	236.4	235.8	236.4	239.0	239.7	241.6	245.4	248.7	253.7
67.5°	205.0	202.6	201.9	201.0	201.9	202.6	205.0	206.6	209.1	213.3	215.8
70°	178.8	177.5	173.7	174.3	173.7	177.5	178.8	182.0	184.6	189.6	192.2
72.5°	150.6	149.3	148.5	147.7	148.5	149.3	150.6	153.8	156.4	162.0	166.1
75°	119.2	118.5	117.9	120.5	117.9	118.5	119.2	119.8	120.5	122.4	124.3
77.5°	95.5	95.5	95.9	94.8	95.9	95.5	95.5	95.5	95.5	96.5	96.9
80°	80.1	80.1	79.5	79.5	79.5	80.1	80.1	80.1	80.1	80.1	79.5
82.5°	64.2	64.7	65.1	64.1	65.1	64.7	64.2	65.2	65.7	64.7	65.1
85°	42.3	41.7	43.0	42.3	43.0	41.7	42.3	42.3	41.0	42.3	41.7
87.5°	22.4	21.4	21.5	22.1	21.5	21.4	22.4	21.4	21.3	21.1	20.5
90°	17.2	17.4	17.7	18.0	17.7	17.4	17.2	17.0	16.6	16.0	15.5
92.5°	19.4	19.6	19.7	19.9	19.7	19.6	19.4	19.2	18.8	17.9	17.0
95°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.3	21.4	20.5
97.5°	24.3	24.5	24.6	24.7	24.6	24.5	24.3	24.2	23.6	22.5	21.4
100°	24.8	24.9	25.0	25.2	25.0	24.9	24.8	24.7	24.1	23.0	21.9
102.5°	24.9	25.2	25.4	25.7	25.4	25.2	24.9	24.7	26.3	29.6	32.9
105°	25.6	25.8	26.2	26.4	26.2	25.8	25.6	25.4	37.0	60.6	84.2
107.5°	136.2	118.5	100.7	82.9	100.7	118.5	136.2	154.1	171.6	188.9	206.2
110°	222.2	203.1	184.0	165.0	184.0	203.1	222.2	241.2	253.0	257.4	261.8



TEST NUMBER: P332474-930

CATALOG NUMBER: S123RDIW-S1165D755U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	295.1	291.1	287.1	283.1	287.1	291.1	295.1	299.1	301.2	301.1	301.0
115°	351.1	351.7	352.2	352.8	352.2	351.7	351.1	350.7	349.7	348.4	347.1
117.5°	391.6	391.7	391.8	391.9	391.8	391.7	391.6	391.4	390.9	389.8	388.7
120°	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.2	417.2	416.1
122.5°	444.8	444.9	445.1	445.2	445.1	444.9	444.8	444.7	444.3	443.5	442.8
125°	481.6	481.8	482.1	482.3	482.1	481.8	481.6	481.3	481.0	480.8	480.5
127.5°	518.9	518.6	518.4	518.1	518.4	518.6	518.9	519.2	519.1	518.7	518.3
130°	541.9	541.7	541.4	541.1	541.4	541.7	541.9	542.3	542.1	541.5	541.0
132.5°	563.4	563.0	562.6	562.2	562.6	563.0	563.4	563.8	563.7	563.1	562.6
135°	595.7	595.3	594.9	594.5	594.9	595.3	595.7	596.1	596.1	595.7	595.3
137.5°	625.7	625.4	625.2	624.9	625.2	625.4	625.7	626.0	625.8	625.2	624.5
140°	643.9	643.7	643.4	643.1	643.4	643.7	643.9	644.2	644.1	643.5	643.0
142.5°	661.0	660.7	660.3	659.9	660.3	660.7	661.0	661.5	661.4	661.0	660.6
145°	685.7	685.7	685.7	685.7	685.7	685.7	685.7	685.7	685.6	685.3	685.1
147.5°	706.8	706.1	705.6	704.9	705.6	706.1	706.8	707.4	707.6	707.3	707.0
150°	720.6	720.2	719.7	719.3	719.7	720.2	720.6	721.0	721.0	720.7	720.5
152.5°	732.7	732.1	731.5	730.8	731.5	732.1	732.7	733.3	733.4	732.9	732.4
155°	749.3	748.5	747.7	746.9	747.7	748.5	749.3	750.2	750.2	749.5	748.9
157.5°	763.6	762.5	761.6	760.5	761.6	762.5	763.6	764.7	764.8	763.9	763.2
160°	771.9	771.0	770.1	769.2	770.1	771.0	771.9	772.9	772.9	772.2	771.4
162.5°	779.8	778.9	778.1	777.3	778.1	778.9	779.8	780.6	780.6	779.7	778.8
165°	789.9	789.0	788.1	787.1	788.1	789.0	789.9	790.8	790.8	789.7	788.6
167.5°	797.4	796.3	795.2	794.2	795.2	796.3	797.4	798.5	798.5	797.4	796.3
170°	801.8	800.6	799.6	798.5	799.6	800.6	801.8	802.8	802.8	801.8	800.6
172.5°	804.5	803.3	802.1	801.0	802.1	803.3	804.5	805.6	805.7	804.6	803.6
175°	807.7	806.7	805.6	804.5	805.6	806.7	807.7	808.8	808.9	808.0	807.0
177.5°	808.8	807.7	806.7	805.6	806.7	807.7	808.8	809.8	810.0	809.1	808.3
180°	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6



TEST NUMBER: P332474-930

CATALOG NUMBER: S123RDIW-S1165D755U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1428.7	1435.9	1443.1	1449.8	1460.0	1464.6	1471.3	1473.8	1481.6	1492.8	1502.0
5°	1341.8	1352.1	1365.5	1376.5	1393.8	1407.2	1422.0	1436.1	1452.7	1476.4	1497.5
7.5°	1268.1	1278.3	1294.5	1314.7	1333.7	1352.8	1373.0	1392.2	1416.0	1450.0	1483.7
10°	1219.4	1231.6	1250.8	1272.6	1296.3	1314.9	1338.6	1363.0	1392.4	1431.6	1471.9
12.5°	1177.4	1186.5	1208.8	1229.6	1256.4	1280.1	1303.3	1331.7	1365.3	1407.0	1455.5
15°	1110.5	1123.3	1145.1	1168.2	1196.4	1221.4	1251.5	1286.1	1318.7	1370.0	1429.0
17.5°	1043.3	1062.8	1085.5	1111.5	1132.5	1166.9	1199.5	1235.1	1275.3	1329.7	1394.4
20°	1000.3	1015.7	1036.8	1074.6	1102.2	1128.5	1158.5	1202.8	1239.9	1301.5	1368.7
22.5°	963.9	975.2	998.9	1030.0	1062.2	1092.6	1123.2	1165.4	1211.2	1269.7	1342.6
25°	910.0	927.9	945.8	968.2	1002.8	1039.3	1072.7	1108.6	1157.3	1219.4	1298.3
27.5°	857.3	873.5	891.2	918.8	945.0	979.2	1014.0	1055.2	1107.4	1173.2	1253.1
30°	823.5	835.6	852.2	887.5	911.2	940.7	981.7	1018.2	1066.9	1136.8	1221.4
32.5°	788.6	804.3	822.6	849.5	878.9	906.9	944.3	983.9	1033.6	1102.4	1189.0
35°	738.8	757.4	776.0	795.9	825.3	854.2	885.6	929.2	979.7	1046.4	1131.6
37.5°	693.1	708.1	723.2	747.8	775.8	803.2	832.5	875.5	923.2	995.1	1073.2
40°	663.9	677.4	688.8	714.5	741.4	770.9	799.7	837.6	888.8	956.1	1031.7
42.5°	632.1	644.5	660.1	681.2	710.1	735.0	763.9	799.6	847.7	916.1	982.4
45°	584.4	598.5	612.0	631.9	660.6	685.0	710.6	744.6	793.9	850.4	909.3
47.5°	534.8	548.9	564.3	583.5	608.6	633.4	659.0	689.1	734.1	789.5	829.2
50°	503.0	514.5	529.9	549.2	572.3	598.5	621.6	654.3	697.2	740.8	775.3
52.5°	470.2	480.7	498.1	518.4	540.0	562.6	587.3	615.3	654.1	695.1	722.6
55°	419.1	431.9	446.6	466.5	487.6	506.9	530.6	559.5	590.2	620.9	639.5
57.5°	371.3	381.9	394.4	414.8	433.2	456.2	477.4	499.9	528.3	551.5	563.6
60°	336.4	346.0	362.1	380.0	397.3	417.2	441.5	463.9	485.8	504.3	513.9
62.5°	303.6	314.8	328.7	345.1	363.9	382.8	404.1	422.9	442.1	458.2	464.7
65°	260.8	269.8	280.1	295.4	310.8	330.0	346.7	365.9	380.0	389.0	394.8
67.5°	221.8	227.7	235.5	245.8	260.9	277.7	293.8	308.8	320.7	326.8	331.9
70°	196.7	200.6	206.4	216.6	228.1	242.9	259.5	270.4	280.7	285.8	290.9
72.5°	171.6	176.5	181.7	190.0	199.4	210.0	222.1	235.5	241.2	247.4	250.5
75°	130.1	137.1	144.1	149.3	155.7	164.0	175.0	183.3	186.5	191.6	192.2
77.5°	98.2	99.7	104.8	111.2	116.6	122.6	129.6	137.0	138.5	141.2	142.9
80°	80.7	80.7	80.7	84.5	91.0	95.5	101.9	105.7	108.3	108.9	109.6
82.5°	64.8	64.8	64.3	65.1	67.4	69.9	75.7	80.1	82.2	81.8	80.4
85°	42.3	41.0	41.0	40.4	41.0	39.7	39.1	41.7	45.5	45.5	44.2
87.5°	20.4	19.8	20.0	19.1	18.3	17.4	15.6	15.8	15.5	17.3	16.6
90°	14.9	14.4	12.6	10.9	9.2	7.5	6.0	4.6	3.3	2.0	0.6
92.5°	16.2	15.3	14.0	12.7	11.4	10.1	9.7	10.0	10.4	10.8	11.2
95°	19.6	18.6	17.1	15.7	14.2	12.7	14.8	20.2	25.7	31.1	36.6
97.5°	20.4	19.3	28.9	38.5	48.1	57.7	63.8	66.2	68.6	71.1	73.5
100°	20.9	19.8	40.6	61.4	82.2	103.0	112.0	109.4	106.7	104.0	101.4
102.5°	36.2	39.5	62.2	84.9	107.6	130.4	140.7	138.8	136.9	135.0	133.1
105°	107.8	131.4	143.4	155.4	167.4	179.4	184.7	183.2	181.7	180.3	178.8
107.5°	223.5	240.8	239.0	237.0	235.1	233.3	231.7	230.6	229.3	228.2	227.0
110°	266.2	270.6	269.1	267.7	266.2	264.7	263.4	262.4	261.3	260.2	259.2



TEST NUMBER: P332474-930

CATALOG NUMBER: S123RDIW-S1165D755U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	300.9	300.8	299.4	297.9	296.4	295.0	293.8	292.8	291.8	290.8	289.9
115°	345.7	344.4	343.2	341.9	340.8	339.6	338.6	337.8	337.0	336.1	335.3
117.5°	387.7	386.6	386.0	385.4	384.7	384.2	383.4	382.4	381.4	380.4	379.4
120°	415.1	413.9	413.6	413.2	412.8	412.4	411.6	410.3	409.2	408.0	406.8
122.5°	442.1	441.3	440.8	440.3	439.8	439.3	438.5	437.6	436.6	435.6	434.6
125°	480.2	480.0	479.4	478.9	478.3	477.8	477.0	476.0	474.9	473.9	472.8
127.5°	517.8	517.4	516.7	516.1	515.5	514.9	514.0	512.9	511.8	510.8	509.7
130°	540.5	540.0	539.4	538.9	538.3	537.9	537.0	536.0	534.9	533.9	532.7
132.5°	562.1	561.6	561.1	560.7	560.3	559.9	559.1	558.0	556.9	555.9	554.8
135°	594.9	594.5	594.0	593.5	593.0	592.4	591.7	590.9	590.1	589.4	588.6
137.5°	623.9	623.2	623.0	622.6	622.3	622.1	621.4	620.4	619.4	618.3	617.3
140°	642.5	642.0	641.6	641.2	640.7	640.3	639.8	639.0	638.1	637.3	636.5
142.5°	660.1	659.7	659.3	658.9	658.5	658.1	657.5	656.7	655.9	655.1	654.3
145°	684.8	684.5	684.3	684.0	683.7	683.5	682.9	681.9	681.0	680.0	679.1
147.5°	706.8	706.5	706.2	706.0	705.7	705.4	705.0	704.3	703.8	703.1	702.5
150°	720.2	719.9	719.7	719.4	719.2	718.8	718.5	718.1	717.7	717.3	717.0
152.5°	731.9	731.5	731.3	731.2	731.0	730.8	730.7	730.4	730.3	730.1	729.9
155°	748.2	747.5	747.4	747.3	747.1	747.0	747.1	747.3	747.6	747.9	748.1
157.5°	762.4	761.6	761.7	761.8	762.0	762.1	762.2	762.2	762.2	762.3	762.3
160°	770.5	769.7	769.9	770.0	770.1	770.3	770.4	770.5	770.7	770.8	770.9
162.5°	777.9	776.9	777.1	777.2	777.3	777.5	777.7	778.0	778.4	778.8	779.1
165°	787.6	786.5	786.7	786.8	786.9	787.1	787.3	787.7	788.1	788.6	789.0
167.5°	795.2	794.2	794.2	794.2	794.2	794.2	794.5	795.0	795.6	796.1	796.6
170°	799.6	798.5	798.5	798.5	798.5	798.5	798.8	799.3	799.9	800.4	801.0
172.5°	802.5	801.4	801.3	801.2	801.1	801.0	801.3	801.9	802.5	803.2	803.8
175°	806.1	805.1	805.0	804.9	804.7	804.6	804.9	805.5	806.2	806.8	807.6
177.5°	807.4	806.6	806.5	806.3	806.2	806.2	806.3	806.9	807.4	808.0	808.5
180°	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6



TEST NUMBER: P332474-930

CATALOG NUMBER: S123RDIW-S1165D755U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1505.1	1510.7	1517.9	1528.7	1536.9	1544.1	1545.6	1547.7	1552.8	1561.5	1568.1
5°	1514.8	1529.6	1553.3	1576.4	1601.3	1621.9	1641.1	1654.6	1667.4	1694.3	1716.0
7.5°	1511.8	1544.6	1581.8	1623.2	1665.1	1705.7	1743.4	1777.0	1810.6	1849.8	1894.6
10°	1509.7	1548.2	1598.1	1651.3	1709.7	1766.7	1821.8	1864.8	1914.7	1959.6	2016.6
12.5°	1500.0	1555.3	1615.1	1683.1	1754.8	1820.5	1893.0	1952.4	2009.5	2074.4	2140.6
15°	1487.3	1554.6	1630.2	1720.5	1829.5	1908.9	1983.3	2086.4	2157.0	2227.4	2322.3
17.5°	1464.1	1546.2	1640.7	1758.1	1848.9	1955.7	2067.6	2149.1	2244.1	2343.4	2429.3
20°	1445.6	1541.2	1646.8	1762.2	1878.2	1994.1	2102.5	2199.8	2297.9	2412.6	2483.1
22.5°	1427.2	1521.7	1631.5	1754.0	1878.7	2000.8	2123.4	2237.8	2348.1	2463.9	2553.8
25°	1388.0	1500.2	1619.3	1744.3	1867.3	2001.9	2148.0	2275.5	2412.0	2531.2	2616.4
27.5°	1348.3	1451.0	1569.7	1696.5	1833.2	1992.3	2164.1	2309.1	2445.8	2531.2	2557.9
30°	1312.4	1421.3	1530.2	1659.1	1807.0	1984.5	2167.1	2333.1	2445.3	2482.4	2454.9
32.5°	1275.9	1374.7	1482.5	1614.5	1771.6	1965.6	2171.3	2318.8	2386.3	2357.9	2245.7
35°	1211.8	1300.8	1405.2	1537.2	1718.0	1955.1	2154.3	2254.3	2237.7	2077.5	1866.0
37.5°	1143.0	1215.6	1312.4	1450.4	1662.4	1913.4	2081.5	2096.3	1952.2	1706.2	1461.9
40°	1088.8	1154.1	1253.4	1397.6	1619.3	1872.4	2008.2	1948.6	1725.0	1451.4	1247.7
42.5°	1035.9	1091.0	1186.7	1342.2	1578.3	1816.6	1899.1	1769.3	1511.2	1252.5	1067.2
45°	946.5	998.3	1094.5	1254.0	1494.4	1709.7	1698.8	1473.2	1215.0	1006.7	852.9
47.5°	861.6	907.0	997.2	1160.1	1395.8	1549.5	1447.6	1207.5	988.5	821.4	711.7
50°	801.6	846.5	936.2	1097.1	1316.9	1429.0	1283.5	1052.2	851.7	713.2	626.1
52.5°	744.2	788.1	870.1	1026.8	1221.5	1288.5	1132.3	917.9	750.6	631.2	556.4
55°	663.9	697.2	770.9	920.8	1066.3	1081.7	923.4	744.0	606.2	522.9	471.7
57.5°	582.0	610.7	683.5	802.9	904.9	897.0	746.9	591.7	499.0	437.0	399.8
60°	528.6	556.8	620.9	723.5	800.4	773.5	635.7	510.7	431.3	385.8	356.3
62.5°	478.9	501.0	560.9	635.8	691.1	660.6	543.4	439.9	376.9	338.6	315.3
65°	406.9	424.9	472.9	512.0	542.7	513.3	415.9	344.1	298.6	271.7	255.7
67.5°	338.4	349.8	380.3	394.4	416.0	383.7	312.7	264.6	238.8	216.1	205.0
70°	295.4	303.7	319.8	331.3	337.0	303.7	251.2	216.0	194.1	178.1	171.1
72.5°	252.3	259.7	262.9	272.3	269.4	238.1	201.9	173.9	158.2	147.4	138.3
75°	192.9	196.1	192.9	189.1	180.7	158.9	134.0	119.8	108.3	103.1	100.0
77.5°	140.6	139.6	135.2	129.2	115.0	101.3	87.8	83.1	78.0	75.3	74.2
80°	108.3	105.7	101.9	92.3	80.1	70.5	67.3	64.1	62.1	58.9	58.3
82.5°	80.6	79.1	72.6	64.6	56.0	51.5	48.8	47.7	45.7	44.1	43.9
85°	43.0	41.0	34.0	29.5	28.2	26.9	26.3	26.3	23.7	23.1	23.1
87.5°	14.3	11.4	11.2	9.9	10.2	9.5	10.4	9.7	9.5	10.2	9.2
90°	2.0	3.3	4.6	6.0	7.5	9.2	10.9	12.6	14.4	14.9	15.5
92.5°	10.8	10.4	10.0	9.7	10.1	11.4	12.7	14.0	15.3	16.2	17.0
95°	31.1	25.7	20.2	14.8	12.7	14.2	15.7	17.1	18.6	19.6	20.5
97.5°	71.1	68.6	66.2	63.8	57.7	48.1	38.5	28.9	19.3	20.4	21.4
100°	104.0	106.7	109.4	112.0	103.0	82.2	61.4	40.6	19.8	20.9	21.9
102.5°	135.0	136.9	138.8	140.7	130.4	107.6	84.9	62.2	39.5	36.2	32.9
105°	180.3	181.7	183.2	184.7	179.4	167.4	155.4	143.4	131.4	107.8	84.2
107.5°	228.2	229.3	230.6	231.7	233.3	235.1	237.0	239.0	240.8	223.5	206.2
110°	260.2	261.3	262.4	263.4	264.7	266.2	267.7	269.1	270.6	266.2	261.8





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	290.8	291.8	292.8	293.8	295.0	296.4	297.9	299.4	300.8	300.9	301.0
115°	336.1	337.0	337.8	338.6	339.6	340.8	341.9	343.2	344.4	345.7	347.1
117.5°	380.4	381.4	382.4	383.4	384.2	384.7	385.4	386.0	386.6	387.7	388.7
120°	408.0	409.2	410.3	411.6	412.4	412.8	413.2	413.6	413.9	415.1	416.1
122.5°	435.6	436.6	437.6	438.5	439.3	439.8	440.3	440.8	441.3	442.1	442.8
125°	473.9	474.9	476.0	477.0	477.8	478.3	478.9	479.4	480.0	480.2	480.5
127.5°	510.8	511.8	512.9	514.0	514.9	515.5	516.1	516.7	517.4	517.8	518.3
130°	533.9	534.9	536.0	537.0	537.9	538.3	538.9	539.4	540.0	540.5	541.0
132.5°	555.9	556.9	558.0	559.1	559.9	560.3	560.7	561.1	561.6	562.1	562.6
135°	589.4	590.1	590.9	591.7	592.4	593.0	593.5	594.0	594.5	594.9	595.3
137.5°	618.3	619.4	620.4	621.4	622.1	622.3	622.6	623.0	623.2	623.9	624.5
140°	637.3	638.1	639.0	639.8	640.3	640.7	641.2	641.6	642.0	642.5	643.0
142.5°	655.1	655.9	656.7	657.5	658.1	658.5	658.9	659.3	659.7	660.1	660.6
145°	680.0	681.0	681.9	682.9	683.5	683.7	684.0	684.3	684.5	684.8	685.1
147.5°	703.1	703.8	704.3	705.0	705.4	705.7	706.0	706.2	706.5	706.8	707.0
150°	717.3	717.7	718.1	718.5	718.8	719.2	719.4	719.7	719.9	720.2	720.5
152.5°	730.1	730.3	730.4	730.7	730.8	731.0	731.2	731.3	731.5	731.9	732.4
155°	747.9	747.6	747.3	747.1	747.0	747.1	747.3	747.4	747.5	748.2	748.9
157.5°	762.3	762.2	762.2	762.2	762.1	762.0	761.8	761.7	761.6	762.4	763.2
160°	770.8	770.7	770.5	770.4	770.3	770.1	770.0	769.9	769.7	770.5	771.4
162.5°	778.8	778.4	778.0	777.7	777.5	777.3	777.2	777.1	776.9	777.9	778.8
165°	788.6	788.1	787.7	787.3	787.1	786.9	786.8	786.7	786.5	787.6	788.6
167.5°	796.1	795.6	795.0	794.5	794.2	794.2	794.2	794.2	794.2	795.2	796.3
170°	800.4	799.9	799.3	798.8	798.5	798.5	798.5	798.5	798.5	799.6	800.6
172.5°	803.2	802.5	801.9	801.3	801.0	801.1	801.2	801.3	801.4	802.5	803.6
175°	806.8	806.2	805.5	804.9	804.6	804.7	804.9	805.0	805.1	806.1	807.0
177.5°	808.0	807.4	806.9	806.3	806.2	806.2	806.3	806.5	806.6	807.4	808.3
180°	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1578.9	1578.9	1580.9	1588.7	1589.7	1596.4	1594.3
5°	1735.3	1747.4	1751.9	1771.2	1782.7	1787.9	1777.6
7.5°	1926.5	1960.9	1977.1	1997.2	2015.1	2020.5	2006.5
10°	2066.0	2101.8	2131.9	2150.5	2167.8	2179.4	2194.1
12.5°	2200.7	2244.8	2273.5	2299.7	2317.5	2332.2	2334.5
15°	2347.2	2413.9	2464.5	2501.7	2520.3	2529.9	2526.0
17.5°	2495.0	2556.8	2592.8	2630.7	2656.5	2657.8	2658.5
20°	2578.5	2638.8	2680.5	2708.7	2737.5	2736.2	2742.6
22.5°	2634.5	2681.8	2713.8	2734.3	2744.1	2739.3	2740.5
25°	2660.6	2674.7	2669.0	2636.3	2628.0	2597.8	2602.9
27.5°	2525.8	2459.1	2390.2	2301.5	2231.6	2175.6	2178.5
30°	2342.8	2224.9	2090.3	1977.5	1876.2	1848.0	1787.9
32.5°	2086.9	1910.1	1752.5	1647.4	1560.5	1536.9	1484.3
35°	1653.3	1481.6	1319.4	1222.0	1183.6	1129.8	1129.1
37.5°	1285.1	1133.8	1048.1	975.0	936.7	904.2	901.0
40°	1081.0	963.1	898.4	845.9	808.0	783.7	778.0
42.5°	938.5	843.2	782.5	750.0	720.9	708.3	699.0
45°	766.4	702.3	660.0	630.6	617.1	607.5	602.3
47.5°	641.1	598.1	569.3	549.7	538.7	528.6	531.3
50°	572.9	537.6	516.5	497.9	489.6	482.5	483.1
52.5°	518.0	486.4	469.3	455.8	445.5	440.5	438.1
55°	439.6	419.7	402.4	392.8	387.0	380.0	378.1
57.5°	375.0	359.6	345.5	334.6	333.2	326.4	327.3
60°	331.9	319.1	307.6	301.8	297.3	291.6	293.5
62.5°	296.5	285.8	275.3	270.5	266.0	261.8	262.7
65°	242.9	232.6	226.2	223.6	221.7	219.8	217.8
67.5°	193.6	187.3	183.3	177.7	173.8	173.2	171.2
70°	162.7	154.4	147.4	140.3	138.4	137.8	138.4
72.5°	130.4	125.2	123.3	119.8	119.4	117.8	119.0
75°	98.1	96.1	94.8	92.3	92.3	92.3	92.3
77.5°	72.3	71.1	70.4	69.9	69.2	68.3	68.2
80°	56.4	55.8	54.5	54.5	53.8	54.5	53.8
82.5°	42.6	42.4	41.2	41.2	40.5	40.1	40.5
85°	21.8	21.1	22.4	21.1	21.8	20.5	21.8
87.5°	9.4	9.5	9.0	9.0	8.6	9.7	8.7
90°	16.0	16.6	17.0	17.2	17.4	17.7	18.0
92.5°	17.9	18.8	19.2	19.4	19.6	19.7	19.9
95°	21.4	22.3	22.8	22.8	22.8	22.8	22.8
97.5°	22.5	23.6	24.2	24.3	24.5	24.6	24.7
100°	23.0	24.1	24.7	24.8	24.9	25.0	25.2
102.5°	29.6	26.3	24.7	24.9	25.2	25.4	25.7
105°	60.6	37.0	25.4	25.6	25.8	26.2	26.4
107.5°	188.9	171.6	154.1	136.2	118.5	100.7	82.9
110°	257.4	253.0	241.2	222.2	203.1	184.0	165.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	301.1	301.2	299.1	295.1	291.1	287.1	283.1
115°	348.4	349.7	350.7	351.1	351.7	352.2	352.8
117.5°	389.8	390.9	391.4	391.6	391.7	391.8	391.9
120°	417.2	418.2	418.7	418.7	418.7	418.7	418.7
122.5°	443.5	444.3	444.7	444.8	444.9	445.1	445.2
125°	480.8	481.0	481.3	481.6	481.8	482.1	482.3
127.5°	518.7	519.1	519.2	518.9	518.6	518.4	518.1
130°	541.5	542.1	542.3	541.9	541.7	541.4	541.1
132.5°	563.1	563.7	563.8	563.4	563.0	562.6	562.2
135°	595.7	596.1	596.1	595.7	595.3	594.9	594.5
137.5°	625.2	625.8	626.0	625.7	625.4	625.2	624.9
140°	643.5	644.1	644.2	643.9	643.7	643.4	643.1
142.5°	661.0	661.4	661.5	661.0	660.7	660.3	659.9
145°	685.3	685.6	685.7	685.7	685.7	685.7	685.7
147.5°	707.3	707.6	707.4	706.8	706.1	705.6	704.9
150°	720.7	721.0	721.0	720.6	720.2	719.7	719.3
152.5°	732.9	733.4	733.3	732.7	732.1	731.5	730.8
155°	749.5	750.2	750.2	749.3	748.5	747.7	746.9
157.5°	763.9	764.8	764.7	763.6	762.5	761.6	760.5
160°	772.2	772.9	772.9	771.9	771.0	770.1	769.2
162.5°	779.7	780.6	780.6	779.8	778.9	778.1	777.3
165°	789.7	790.8	790.8	789.9	789.0	788.1	787.1
167.5°	797.4	798.5	798.5	797.4	796.3	795.2	794.2
170°	801.8	802.8	802.8	801.8	800.6	799.6	798.5
172.5°	804.6	805.7	805.6	804.5	803.3	802.1	801.0
175°	808.0	808.9	808.8	807.7	806.7	805.6	804.5
177.5°	809.1	810.0	809.8	808.8	807.7	806.7	805.6
180°	807.6	807.6	807.6	807.6	807.6	807.6	807.6

(END OF REPORT)