

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: P332451

Luminaire Tested: **S123RDIW-S1000D460U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332451  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIW-S1000D460U835-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 460 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

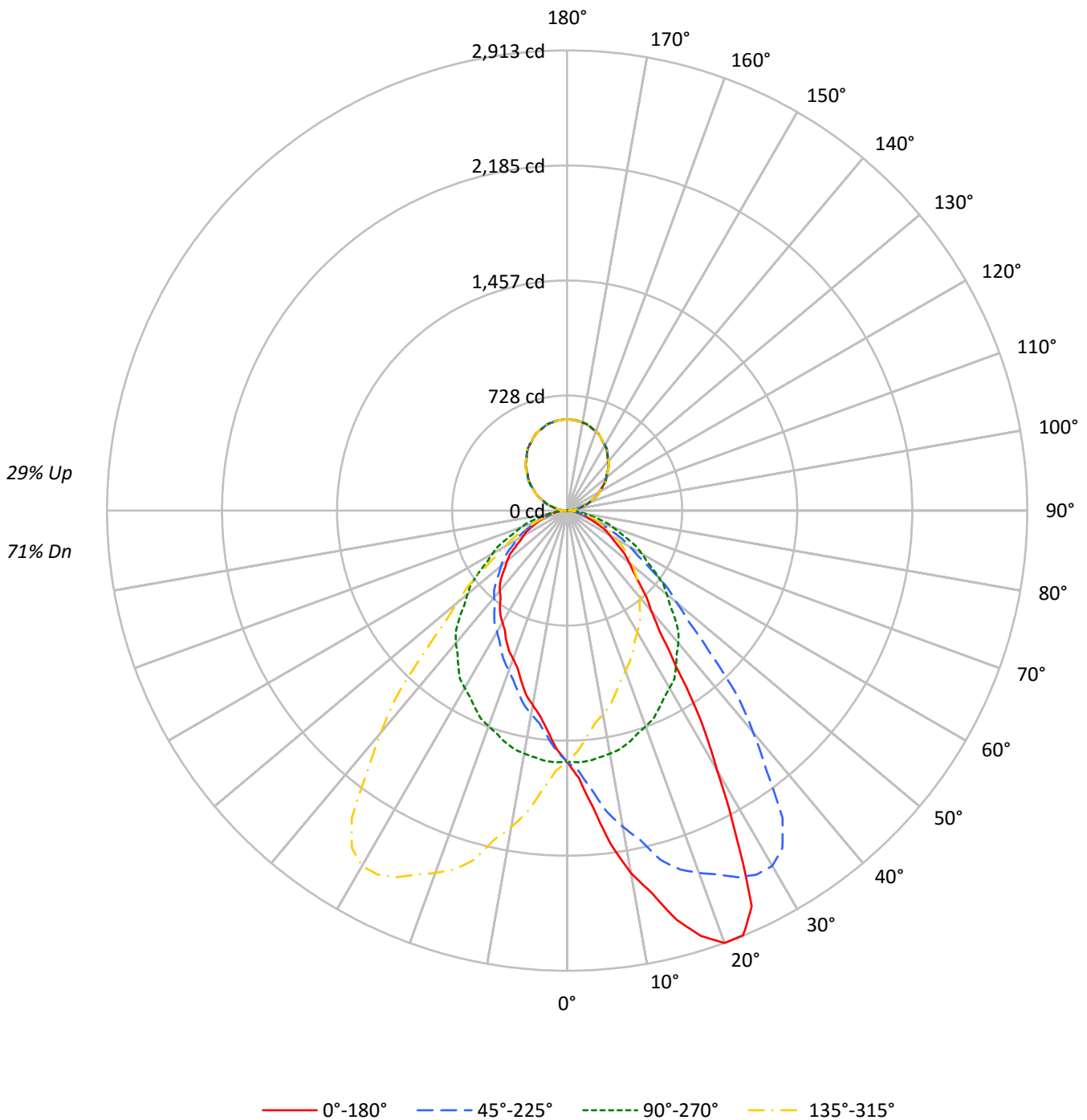
Lumens per Lamp: N/A  
Luminaire Lumens: 5558.2 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 46.2  
Input Voltage (V): 120  
Input Current (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	106	106	106	106	95	95	95	85	85	85	76	76	76	71
1	103	99	96	92	98	94	91	88	85	82	80	76	74	73	68	67	66	62
2	95	88	82	77	90	83	78	74	75	71	68	68	65	62	61	59	57	53
3	87	78	71	65	82	74	68	63	67	62	58	61	57	53	55	52	49	46
4	80	70	62	56	76	66	59	54	60	55	50	55	50	47	50	46	43	40
5	74	62	54	49	70	60	52	47	54	48	44	50	45	41	45	41	38	35
6	68	56	48	43	65	54	47	41	49	43	39	45	40	36	41	37	34	31
7	64	51	43	38	60	49	42	37	45	39	35	41	36	32	38	34	30	28
8	59	47	39	34	56	45	38	33	41	35	31	38	33	29	35	31	27	25
9	55	43	36	30	53	41	34	30	38	32	28	35	30	26	32	28	25	23
10	52	40	32	28	49	38	31	27	35	30	26	33	28	24	30	26	23	21

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

	0°	90°	180°	270°
0°	17111	17111	17111	17111
5°	20398	17184	15132	17184
10°	25468	17086	13671	17086
15°	29895	16912	12467	16912
20°	33364	16651	11443	16651
25°	32831	16376	10815	16376
30°	23599	16122	10167	16122
35°	15757	15792	9747	15792
40°	11609	15396	9313	15396
45°	9738	14700	8888	14700
50°	8592	13788	8296	13788
55°	7535	12746	7484	12746
60°	6710	11750	6857	11750
65°	5894	10677	6378	10677
70°	4626	9725	5825	9725
75°	4076	8492	5319	8492
80°	3546	7215	5232	7215
85°	2853	5805	5545	5805



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.3	2.8
10°-20°	488.4	8.8
20°-30°	767.3	13.8
30°-40°	800.5	14.4
40°-50°	685.1	12.3
50°-60°	522.2	9.4
60°-70°	334.7	6.0
70°-80°	161.0	2.9
80°-90°	44.3	0.8
90°-100°	37.6	0.7
100°-110°	112.5	2.0
110°-120°	191.3	3.4
120°-130°	251.7	4.5
130°-140°	282.9	5.1
140°-150°	278.0	5.0
150°-160°	234.1	4.2
160°-170°	155.8	2.8
170°-180°	54.6	1.0
0°-30°	1412.0	25.4
0°-40°	2212.6	39.8
0°-60°	3419.8	61.5
0°-90°	3959.9	71.2
90°-120°	341.4	6.1
90°-150°	1153.9	20.8
90°-180°	1598.0	28.8
0°-180°	5558.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1590	1590	1590	1590	1590	
5°	1888	1590	1400	1590	1888	195
15°	2683	1518	1119	1518	2683	761
25°	2764	1379	911	1379	2764	1188
35°	1199	1202	742	1202	1199	786
45°	640	966	584	966	640	503
55°	402	679	399	679	402	363
65°	231	419	250	419	231	228
75°	98	204	128	204	98	105
85°	23	47	45	47	23	27
90°	14	0	14	0	14	7
95°	35	27	35	27	35	36
105°	108	102	108	102	108	114
115°	193	193	193	193	193	191
125°	279	282	279	282	279	249
135°	365	366	365	366	365	281
145°	444	444	444	444	444	277
155°	507	508	507	508	507	233
165°	552	553	552	553	552	156
175°	573	576	573	576	573	54
180°	577	577	577	577	577	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1693.2	1695.3	1688.3	1687.2	1679.0	1676.8	1676.8	1665.4	1658.3	1649.1	1643.6
5°	1887.8	1898.7	1893.2	1881.0	1860.6	1855.8	1842.9	1822.5	1799.3	1770.7	1757.1
7.5°	2130.9	2145.7	2140.0	2121.1	2099.7	2082.4	2046.0	2012.1	1964.6	1922.9	1887.3
10°	2330.1	2314.5	2302.2	2283.9	2264.1	2232.1	2194.0	2141.6	2081.1	2033.4	1980.4
12.5°	2479.3	2476.7	2461.2	2442.3	2414.4	2384.0	2337.2	2273.4	2203.0	2134.2	2073.4
15°	2682.7	2686.7	2676.5	2656.8	2617.3	2563.6	2492.8	2466.3	2365.5	2290.7	2215.8
17.5°	2823.4	2822.6	2821.2	2793.9	2753.6	2715.3	2649.7	2579.9	2488.7	2383.2	2282.4
20°	2912.7	2905.9	2907.2	2876.6	2846.7	2802.4	2738.5	2637.1	2562.2	2440.4	2336.3
22.5°	2910.5	2909.1	2914.3	2903.8	2882.1	2848.2	2797.8	2712.2	2616.6	2493.7	2376.6
25°	2764.3	2758.9	2790.9	2799.7	2834.4	2840.5	2825.6	2778.6	2688.1	2561.5	2416.6
27.5°	2313.5	2310.5	2369.9	2444.2	2538.4	2611.6	2682.4	2716.6	2688.1	2597.5	2452.2
30°	1898.7	1962.7	1992.6	2100.1	2219.9	2362.8	2488.0	2607.1	2636.4	2596.9	2477.8
32.5°	1576.4	1632.2	1657.2	1749.5	1861.1	2028.5	2216.4	2385.0	2504.1	2534.3	2462.6
35°	1199.1	1199.8	1256.9	1297.8	1401.2	1573.4	1755.8	1981.7	2206.3	2376.4	2394.1
37.5°	956.8	960.2	994.8	1035.5	1113.1	1204.1	1364.7	1552.6	1812.0	2073.2	2226.3
40°	826.2	832.3	858.2	898.3	954.1	1022.8	1148.1	1325.0	1541.4	1832.0	2069.5
42.5°	742.3	752.3	765.6	796.5	831.1	895.4	996.7	1133.4	1330.2	1605.0	1879.0
45°	639.7	645.1	655.4	669.6	700.9	745.9	813.9	905.8	1069.1	1290.3	1564.5
47.5°	564.3	561.4	572.2	583.8	604.6	635.2	680.8	755.8	872.3	1049.8	1282.4
50°	513.1	512.4	519.9	528.8	548.5	571.0	608.4	664.9	757.4	904.4	1117.4
52.5°	465.2	467.8	473.1	484.1	498.4	516.5	550.1	590.8	670.3	797.2	974.8
55°	401.5	403.6	411.0	417.2	427.4	445.7	466.8	500.9	555.3	643.8	790.1
57.5°	347.6	346.7	353.9	355.4	366.9	381.9	398.2	424.7	464.1	529.9	628.4
60°	311.7	309.6	315.8	320.5	326.7	338.9	352.5	378.4	409.7	458.0	542.4
62.5°	279.0	278.1	282.6	287.3	292.4	303.5	315.0	334.8	359.6	400.3	467.3
65°	231.4	233.4	235.5	237.5	240.2	247.0	257.9	271.5	288.5	317.1	365.4
67.5°	181.8	183.9	184.6	188.8	194.6	198.9	205.5	217.6	229.5	253.6	281.1
70°	147.0	146.3	147.0	149.0	156.5	164.0	172.9	181.7	189.2	206.2	229.3
72.5°	126.3	125.1	126.9	127.3	130.9	133.0	138.6	146.9	156.5	168.1	184.7
75°	98.0	98.0	98.0	98.0	100.7	102.1	104.1	106.2	109.6	115.0	127.3
77.5°	72.4	72.5	73.5	74.2	74.7	75.5	76.8	78.8	80.0	82.9	88.2
80°	57.2	57.8	57.2	57.8	57.8	59.2	59.9	61.9	62.6	66.0	68.1
82.5°	43.0	42.6	43.0	43.7	43.7	45.1	45.2	46.7	46.8	48.6	50.6
85°	23.1	21.8	23.1	22.5	23.8	22.5	23.1	24.5	24.5	25.2	27.9
87.5°	8.2	9.2	8.1	8.6	8.5	9.0	9.0	8.9	9.9	9.3	9.5
90°	13.6	13.4	13.2	13.0	12.8	12.5	12.1	11.7	11.3	10.9	9.6
92.5°	18.3	18.4	18.5	18.7	18.8	18.7	18.4	18.0	17.7	17.4	16.7
95°	35.3	35.3	35.3	35.3	35.3	35.1	34.7	34.3	33.9	33.5	32.7
97.5°	54.4	54.4	54.5	54.5	54.5	54.3	53.9	53.4	52.9	52.5	51.9
100°	68.9	68.7	68.5	68.3	68.1	67.8	67.5	67.2	66.9	66.6	66.1
102.5°	83.7	83.8	83.8	83.9	83.9	83.8	83.5	83.2	82.9	82.6	81.9
105°	107.9	107.7	107.5	107.3	107.0	106.9	106.9	106.9	106.9	106.9	106.0
107.5°	133.0	133.1	133.2	133.3	133.4	133.3	133.0	132.7	132.4	132.1	131.7
110°	150.0	150.2	150.4	150.6	150.8	150.7	150.3	149.9	149.5	149.1	148.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	168.1	168.2	168.2	168.2	168.3	168.1	167.6	167.1	166.6	166.1	166.1
115°	193.1	193.2	193.3	193.4	193.5	193.5	193.4	193.3	193.2	193.1	193.3
117.5°	218.3	218.6	218.9	219.2	219.5	219.6	219.6	219.7	219.7	219.7	220.0
120°	236.1	236.3	236.5	236.7	236.9	237.1	237.2	237.3	237.4	237.5	238.0
122.5°	253.1	253.4	253.7	254.0	254.3	254.5	254.8	255.1	255.3	255.6	255.9
125°	278.7	279.1	279.5	279.9	280.3	280.7	281.1	281.5	281.9	282.3	282.5
127.5°	304.2	304.6	305.1	305.6	306.0	306.5	307.1	307.7	308.2	308.8	309.0
130°	320.8	321.6	322.3	323.0	323.7	324.2	324.6	325.0	325.4	325.8	326.1
132.5°	338.2	338.8	339.3	339.9	340.4	340.9	341.4	341.9	342.4	342.9	343.1
135°	365.3	365.5	365.7	365.9	366.1	366.4	366.8	367.2	367.6	368.0	368.1
137.5°	389.1	389.5	389.9	390.2	390.6	391.0	391.5	391.9	392.3	392.7	392.5
140°	404.7	405.4	406.1	406.8	407.5	407.9	408.0	408.1	408.2	408.3	408.2
142.5°	420.6	421.2	421.7	422.3	422.8	423.1	423.2	423.3	423.4	423.5	423.4
145°	443.7	444.1	444.5	444.9	445.3	445.5	445.6	445.7	445.8	445.9	445.6
147.5°	464.1	464.7	465.3	466.0	466.6	466.9	466.9	466.9	466.9	466.9	466.6
150°	477.2	477.8	478.4	479.0	479.6	479.9	479.9	479.9	479.9	479.9	479.7
152.5°	489.9	490.4	490.9	491.5	492.0	492.2	492.0	491.8	491.7	491.5	491.4
155°	507.1	507.8	508.5	509.2	509.9	510.1	509.7	509.3	508.9	508.5	508.4
157.5°	522.8	523.3	523.9	524.5	525.0	525.1	524.7	524.3	523.8	523.4	523.3
160°	532.9	533.3	533.7	534.1	534.5	534.5	534.0	533.5	533.0	532.5	532.5
162.5°	540.5	541.2	541.8	542.5	543.1	543.2	542.7	542.2	541.7	541.2	541.1
165°	551.5	552.2	552.9	553.6	554.3	554.4	553.8	553.2	552.6	552.0	552.0
167.5°	560.8	561.5	562.1	562.7	563.3	563.3	562.7	562.1	561.5	560.8	560.8
170°	565.6	566.3	567.0	567.7	568.4	568.4	567.7	567.0	566.3	565.6	565.6
172.5°	569.2	569.9	570.6	571.3	572.0	572.0	571.4	570.8	570.2	569.5	569.5
175°	573.3	574.0	574.7	575.4	576.1	576.1	575.5	574.9	574.3	573.7	573.7
177.5°	575.4	576.0	576.6	577.1	577.7	577.7	577.3	576.8	576.3	575.8	575.8
180°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1641.4	1639.8	1632.2	1623.5	1612.0	1604.4	1598.4	1595.2	1585.4	1573.4	1565.2
5°	1742.8	1722.4	1700.7	1674.1	1649.6	1624.4	1608.8	1590.4	1567.9	1542.8	1525.1
7.5°	1851.5	1811.4	1768.3	1723.8	1679.8	1640.4	1605.5	1575.7	1539.9	1503.8	1478.5
10°	1934.8	1876.2	1815.7	1753.7	1697.2	1644.2	1603.3	1563.2	1520.3	1478.8	1447.5
12.5°	2010.4	1933.4	1863.6	1787.5	1715.2	1651.8	1593.0	1545.8	1494.2	1449.9	1414.3
15°	2106.2	2027.3	1942.9	1827.2	1731.3	1651.0	1579.5	1517.6	1455.0	1400.5	1365.8
17.5°	2195.8	2077.0	1963.6	1867.1	1742.4	1642.1	1554.9	1480.8	1412.1	1354.4	1311.7
20°	2232.8	2117.8	1994.6	1871.5	1749.0	1636.7	1535.3	1453.6	1382.2	1316.8	1277.4
22.5°	2255.1	2124.9	1995.2	1862.8	1732.6	1616.0	1515.7	1425.9	1348.4	1286.3	1237.6
25°	2281.1	2126.0	1983.1	1852.4	1719.7	1593.1	1474.0	1378.8	1295.1	1229.0	1177.3
27.5°	2298.3	2115.8	1946.9	1801.6	1667.0	1541.0	1431.8	1330.8	1245.9	1176.1	1120.6
30°	2301.6	2107.6	1919.1	1761.9	1625.1	1509.4	1393.7	1297.1	1207.3	1133.1	1081.4
32.5°	2305.9	2087.5	1881.5	1714.5	1574.5	1459.9	1355.1	1262.8	1170.8	1097.7	1044.9
35°	2288.0	2076.3	1824.5	1632.6	1492.4	1381.5	1286.9	1201.8	1111.3	1040.5	986.8
37.5°	2210.6	2032.1	1765.4	1540.3	1393.7	1291.0	1213.9	1139.8	1056.7	980.4	929.7
40°	2132.8	1988.5	1719.7	1484.2	1331.1	1225.6	1156.2	1095.7	1015.4	943.9	889.5
42.5°	2016.8	1929.2	1676.2	1425.4	1260.3	1158.7	1100.1	1043.4	972.9	900.3	849.2
45°	1804.1	1815.7	1587.0	1331.8	1162.3	1060.3	1005.1	965.7	903.1	843.2	790.8
47.5°	1537.3	1645.5	1482.3	1232.0	1059.0	963.2	915.0	880.6	838.4	779.6	731.8
50°	1363.1	1517.6	1398.5	1165.1	994.3	899.0	851.3	823.4	786.7	740.4	694.8
52.5°	1202.5	1368.4	1297.2	1090.5	924.0	836.9	790.4	767.4	738.2	694.7	653.4
55°	980.6	1148.7	1132.4	977.9	818.7	740.4	705.0	679.2	659.4	626.8	594.1
57.5°	793.2	952.6	961.0	852.7	725.9	648.5	618.1	598.6	585.7	561.0	530.8
60°	675.1	821.4	850.0	768.3	659.4	591.4	561.4	545.8	535.6	515.8	492.7
62.5°	577.1	701.6	734.0	675.2	595.7	532.0	508.6	493.5	486.6	469.6	449.2
65°	441.7	545.1	576.4	543.7	502.2	451.2	432.1	419.2	413.1	403.6	388.6
67.5°	332.1	407.5	441.8	418.8	403.8	371.6	359.5	352.5	347.1	340.5	328.0
70°	266.8	322.6	358.0	351.8	339.6	322.6	313.7	309.0	303.5	298.1	287.2
72.5°	214.5	252.9	286.1	289.2	279.2	275.8	268.0	266.0	262.7	256.2	250.2
75°	142.2	168.8	191.9	200.8	204.8	208.2	204.8	204.2	203.5	198.0	194.6
77.5°	93.2	107.5	122.1	137.2	143.6	148.2	149.3	151.8	150.0	147.1	145.5
80°	71.5	74.9	85.1	98.0	108.2	112.3	115.0	116.4	115.7	115.0	112.3
82.5°	51.9	54.7	59.5	68.6	77.2	84.0	85.6	85.3	86.8	87.2	85.1
85°	27.9	28.6	29.9	31.3	36.1	43.6	45.6	47.0	48.3	48.3	44.2
87.5°	10.4	9.6	10.4	10.2	11.6	11.9	15.0	17.5	18.3	16.3	16.5
90°	8.3	6.9	5.6	4.5	3.5	2.5	1.5	0.5	1.5	2.5	3.5
92.5°	15.9	15.2	14.4	13.7	13.0	12.3	11.7	11.0	11.7	12.3	13.0
95°	31.9	31.1	30.3	29.6	28.9	28.1	27.4	26.7	27.4	28.1	28.9
97.5°	51.3	50.7	50.1	49.6	49.1	48.5	48.0	47.5	48.0	48.5	49.1
100°	65.6	65.1	64.6	64.0	63.4	62.8	62.2	61.6	62.2	62.8	63.4
102.5°	81.2	80.6	79.9	79.4	79.0	78.7	78.3	77.9	78.3	78.7	79.0
105°	105.1	104.2	103.3	102.8	102.6	102.4	102.2	102.0	102.2	102.4	102.6
107.5°	131.3	131.0	130.6	130.4	130.2	130.1	130.0	129.9	130.0	130.1	130.2
110°	148.7	148.5	148.3	148.1	147.9	147.7	147.5	147.3	147.5	147.7	147.9





TEST NUMBER: P332451

CATALOG NUMBER: S123RDIW-S1000D460U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	166.1	166.0	166.0	165.9	165.8	165.7	165.5	165.4	165.5	165.7	165.8
115°	193.5	193.7	193.9	193.8	193.5	193.2	192.9	192.6	192.9	193.2	193.5
117.5°	220.2	220.5	220.7	220.8	220.6	220.4	220.2	220.0	220.2	220.4	220.6
120°	238.5	239.0	239.5	239.4	238.8	238.2	237.6	237.0	237.6	238.2	238.8
122.5°	256.1	256.4	256.6	256.5	256.1	255.7	255.2	254.8	255.2	255.7	256.1
125°	282.7	282.9	283.1	283.1	282.8	282.5	282.2	281.9	282.2	282.5	282.8
127.5°	309.2	309.5	309.7	309.5	308.8	308.2	307.5	306.9	307.5	308.2	308.8
130°	326.4	326.7	327.0	326.8	326.0	325.2	324.4	323.6	324.4	325.2	326.0
132.5°	343.3	343.5	343.8	343.5	342.7	341.9	341.0	340.2	341.0	341.9	342.7
135°	368.2	368.3	368.4	368.1	367.5	366.9	366.3	365.7	366.3	366.9	367.5
137.5°	392.2	391.9	391.7	391.3	390.8	390.3	389.8	389.3	389.8	390.3	390.8
140°	408.1	408.0	407.9	407.6	407.1	406.6	406.1	405.6	406.1	406.6	407.1
142.5°	423.2	423.0	422.8	422.5	422.0	421.5	421.0	420.5	421.0	421.5	422.0
145°	445.3	445.0	444.7	444.5	444.3	444.1	443.9	443.7	443.9	444.1	444.3
147.5°	466.3	466.0	465.7	465.4	465.0	464.7	464.3	464.0	464.3	464.7	465.0
150°	479.5	479.3	479.1	478.9	478.7	478.5	478.3	478.1	478.3	478.5	478.7
152.5°	491.3	491.1	491.0	490.8	490.5	490.3	490.0	489.7	490.0	490.3	490.5
155°	508.3	508.2	508.1	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
157.5°	523.3	523.2	523.1	523.1	523.2	523.4	523.5	523.6	523.5	523.4	523.2
160°	532.5	532.5	532.5	532.6	532.8	533.0	533.2	533.4	533.2	533.0	532.8
162.5°	541.0	540.9	540.9	541.0	541.2	541.5	541.8	542.1	541.8	541.5	541.2
165°	552.0	552.0	552.0	552.1	552.4	552.7	553.0	553.3	553.0	552.7	552.4
167.5°	560.7	560.6	560.5	560.7	561.1	561.5	561.9	562.3	561.9	561.5	561.1
170°	565.6	565.6	565.6	565.8	566.2	566.6	567.0	567.4	567.0	566.6	566.2
172.5°	569.5	569.5	569.5	569.7	570.2	570.6	571.0	571.4	571.0	570.6	570.2
175°	573.7	573.7	573.7	573.9	574.3	574.7	575.1	575.5	575.1	574.7	574.3
177.5°	575.8	575.8	575.8	576.0	576.3	576.6	576.9	577.3	576.9	576.6	576.3
180°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9



TEST NUMBER: P332451

CATALOG NUMBER: S123RDIW-S1000D460U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1562.5	1555.4	1550.5	1539.6	1532.6	1524.9	1517.3	1522.2	1521.7	1521.1	1521.1
5°	1510.1	1494.4	1480.2	1461.8	1450.2	1435.9	1425.0	1423.7	1426.4	1416.9	1411.4
7.5°	1458.1	1436.7	1416.5	1396.2	1374.7	1357.5	1346.8	1341.7	1334.8	1328.9	1322.8
10°	1421.6	1396.5	1376.7	1351.5	1328.4	1308.0	1295.1	1286.2	1281.4	1276.7	1267.8
12.5°	1384.1	1359.4	1334.3	1305.8	1283.8	1260.1	1250.4	1240.5	1231.4	1226.0	1213.9
15°	1329.1	1297.1	1270.6	1240.6	1216.1	1193.0	1179.4	1159.6	1156.9	1150.1	1137.9
17.5°	1274.0	1239.2	1202.6	1180.5	1152.8	1128.7	1108.0	1101.4	1081.9	1074.6	1063.9
20°	1230.4	1198.4	1170.5	1141.3	1101.1	1078.6	1062.3	1053.5	1037.8	1028.3	1021.5
22.5°	1192.8	1160.3	1128.1	1093.9	1060.8	1035.6	1023.7	1009.9	1001.3	988.0	980.6
25°	1139.2	1103.8	1065.0	1028.3	1004.5	985.4	966.4	954.1	941.9	935.7	922.1
27.5°	1076.9	1039.9	1003.6	975.7	946.5	927.7	910.4	899.5	884.8	874.5	867.0
30°	1042.6	999.0	967.7	942.5	905.1	887.4	874.5	860.9	850.0	839.1	831.6
32.5°	1002.8	963.1	933.4	902.3	873.5	854.2	837.5	825.5	816.2	805.9	798.4
35°	940.5	907.2	876.5	845.2	824.1	804.4	784.7	774.4	765.6	756.1	749.3
37.5°	884.1	853.0	823.9	794.2	768.0	752.0	736.1	728.3	716.3	709.9	703.0
40°	849.3	818.7	787.4	758.8	731.6	719.3	705.0	693.5	682.6	677.8	670.3
42.5°	811.2	780.6	754.2	723.4	701.1	684.5	671.3	658.6	650.5	643.5	639.3
45°	754.7	727.5	701.6	671.0	649.9	635.6	620.6	609.1	601.6	596.8	589.3
47.5°	699.9	672.6	646.4	619.7	599.3	582.9	568.0	559.9	550.0	544.2	539.1
50°	660.1	635.6	607.7	583.2	562.8	546.5	534.2	524.0	515.2	507.7	504.3
52.5°	623.6	597.5	573.4	550.6	529.0	510.5	499.4	488.6	482.0	473.4	469.4
55°	563.5	538.3	517.9	495.4	474.3	458.7	445.1	435.5	428.7	419.2	413.8
57.5°	507.0	484.4	460.0	440.6	418.8	405.6	394.3	381.4	373.1	365.6	360.3
60°	468.9	443.0	421.9	403.6	384.5	367.5	357.3	347.1	338.2	330.7	326.0
62.5°	429.1	406.6	386.5	366.5	349.1	334.3	322.4	313.9	306.1	301.3	296.6
65°	368.2	350.5	330.1	313.7	297.4	286.5	277.0	269.5	264.0	260.6	256.6
67.5°	312.1	294.9	277.1	261.1	250.2	241.9	235.6	229.2	226.5	222.1	219.4
70°	275.6	257.9	242.3	230.0	219.1	213.0	208.9	204.2	201.4	196.0	193.3
72.5°	235.9	223.1	211.8	201.7	193.0	187.4	182.2	176.4	172.0	166.0	163.3
75°	185.8	174.2	165.4	158.6	153.1	145.6	138.1	132.0	130.0	127.9	127.3
77.5°	137.6	130.3	123.9	118.1	111.3	105.9	104.3	102.9	102.5	101.4	101.4
80°	108.2	101.4	96.6	89.8	85.7	85.7	85.7	84.4	85.1	85.1	85.1
82.5°	80.4	74.2	71.6	69.1	68.3	68.9	68.9	69.1	68.7	69.8	69.3
85°	41.5	42.2	43.6	42.9	43.6	43.6	44.9	44.2	44.9	43.6	44.9
87.5°	16.1	18.0	18.8	19.6	20.4	20.1	20.8	20.8	21.5	21.6	21.6
90°	4.5	5.6	6.9	8.3	9.6	10.9	11.3	11.7	12.1	12.5	12.8
92.5°	13.7	14.4	15.2	15.9	16.7	17.4	17.7	18.0	18.4	18.7	18.8
95°	29.6	30.3	31.1	31.9	32.7	33.5	33.9	34.3	34.7	35.1	35.3
97.5°	49.6	50.1	50.7	51.3	51.9	52.5	52.9	53.4	53.9	54.3	54.5
100°	64.0	64.6	65.1	65.6	66.1	66.6	66.9	67.2	67.5	67.8	68.1
102.5°	79.4	79.9	80.6	81.2	81.9	82.6	82.9	83.2	83.5	83.8	83.9
105°	102.8	103.3	104.2	105.1	106.0	106.9	106.9	106.9	106.9	106.9	107.0
107.5°	130.4	130.6	131.0	131.3	131.7	132.1	132.4	132.7	133.0	133.3	133.4
110°	148.1	148.3	148.5	148.7	148.9	149.1	149.5	149.9	150.3	150.7	150.8



TEST NUMBER: P332451

CATALOG NUMBER: S123RDIW-S1000D460U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	165.9	166.0	166.0	166.1	166.1	166.1	166.6	167.1	167.6	168.1	168.3
115°	193.8	193.9	193.7	193.5	193.3	193.1	193.2	193.3	193.4	193.5	193.5
117.5°	220.8	220.7	220.5	220.2	220.0	219.7	219.7	219.7	219.6	219.6	219.5
120°	239.4	239.5	239.0	238.5	238.0	237.5	237.4	237.3	237.2	237.1	236.9
122.5°	256.5	256.6	256.4	256.1	255.9	255.6	255.3	255.1	254.8	254.5	254.3
125°	283.1	283.1	282.9	282.7	282.5	282.3	281.9	281.5	281.1	280.7	280.3
127.5°	309.5	309.7	309.5	309.2	309.0	308.8	308.2	307.7	307.1	306.5	306.0
130°	326.8	327.0	326.7	326.4	326.1	325.8	325.4	325.0	324.6	324.2	323.7
132.5°	343.5	343.8	343.5	343.3	343.1	342.9	342.4	341.9	341.4	340.9	340.4
135°	368.1	368.4	368.3	368.2	368.1	368.0	367.6	367.2	366.8	366.4	366.1
137.5°	391.3	391.7	391.9	392.2	392.5	392.7	392.3	391.9	391.5	391.0	390.6
140°	407.6	407.9	408.0	408.1	408.2	408.3	408.2	408.1	408.0	407.9	407.5
142.5°	422.5	422.8	423.0	423.2	423.4	423.5	423.4	423.3	423.2	423.1	422.8
145°	444.5	444.7	445.0	445.3	445.6	445.9	445.8	445.7	445.6	445.5	445.3
147.5°	465.4	465.7	466.0	466.3	466.6	466.9	466.9	466.9	466.9	466.9	466.6
150°	478.9	479.1	479.3	479.5	479.7	479.9	479.9	479.9	479.9	479.9	479.6
152.5°	490.8	491.0	491.1	491.3	491.4	491.5	491.7	491.8	492.0	492.2	492.0
155°	508.0	508.1	508.2	508.3	508.4	508.5	508.9	509.3	509.7	510.1	509.9
157.5°	523.1	523.1	523.2	523.3	523.3	523.4	523.8	524.3	524.7	525.1	525.0
160°	532.6	532.5	532.5	532.5	532.5	532.5	533.0	533.5	534.0	534.5	534.5
162.5°	541.0	540.9	540.9	541.0	541.1	541.2	541.7	542.2	542.7	543.2	543.1
165°	552.1	552.0	552.0	552.0	552.0	552.0	552.6	553.2	553.8	554.4	554.3
167.5°	560.7	560.5	560.6	560.7	560.8	560.8	561.5	562.1	562.7	563.3	563.3
170°	565.8	565.6	565.6	565.6	565.6	565.6	566.3	567.0	567.7	568.4	568.4
172.5°	569.7	569.5	569.5	569.5	569.5	569.5	570.2	570.8	571.4	572.0	572.0
175°	573.9	573.7	573.7	573.7	573.7	573.7	574.3	574.9	575.5	576.1	576.1
177.5°	576.0	575.8	575.8	575.8	575.8	575.8	576.3	576.8	577.3	577.7	577.7
180°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9



TEST NUMBER: P332451

CATALOG NUMBER: S123RDIW-S1000D460U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1514.6	1514.0	1514.6	1512.4	1514.6	1514.0	1514.6	1521.1	1521.1	1521.7	1522.2
5°	1409.4	1408.7	1406.7	1400.5	1406.7	1408.7	1409.4	1411.4	1416.9	1426.4	1423.7
7.5°	1317.5	1316.6	1310.6	1310.7	1310.6	1316.6	1317.5	1322.8	1328.9	1334.8	1341.7
10°	1263.1	1263.7	1255.6	1250.8	1255.6	1263.7	1263.1	1267.8	1276.7	1281.4	1286.2
12.5°	1210.3	1207.1	1200.6	1195.3	1200.6	1207.1	1210.3	1213.9	1226.0	1231.4	1240.5
15°	1140.6	1133.8	1117.4	1118.8	1117.4	1133.8	1140.6	1137.9	1150.1	1156.9	1159.6
17.5°	1058.5	1053.5	1053.2	1043.7	1053.2	1053.5	1058.5	1063.9	1074.6	1081.9	1101.4
20°	1010.6	1007.2	1008.5	999.0	1008.5	1007.2	1010.6	1021.5	1028.3	1037.8	1053.5
22.5°	973.0	969.6	963.9	960.9	963.9	969.6	973.0	980.6	988.0	1001.3	1009.9
25°	918.0	912.6	907.2	910.6	907.2	912.6	918.0	922.1	935.7	941.9	954.1
27.5°	863.1	859.0	853.5	852.8	853.5	859.0	863.1	867.0	874.5	884.8	899.5
30°	828.2	824.1	821.4	818.0	821.4	824.1	828.2	831.6	839.1	850.0	860.9
32.5°	792.8	792.0	787.1	786.4	787.1	792.0	792.8	798.4	805.9	816.2	825.5
35°	746.5	742.5	741.1	741.8	741.1	742.5	746.5	749.3	756.1	765.6	774.4
37.5°	702.6	697.1	694.7	692.2	694.7	697.1	702.6	703.0	709.9	716.3	728.3
40°	671.0	665.6	664.2	662.8	664.2	665.6	671.0	670.3	677.8	682.6	693.5
42.5°	635.6	633.4	632.6	630.2	632.6	633.4	635.6	639.3	643.5	650.5	658.6
45°	587.3	586.6	582.5	583.9	582.5	586.6	587.3	589.3	596.8	601.6	609.1
47.5°	536.4	533.4	530.5	532.4	530.5	533.4	536.4	539.1	544.2	550.0	559.9
50°	501.6	500.2	494.1	495.4	494.1	500.2	501.6	504.3	507.7	515.2	524.0
52.5°	466.7	461.5	459.2	458.4	459.2	461.5	466.7	469.4	473.4	482.0	488.6
55°	409.0	402.9	400.2	398.8	400.2	402.9	409.0	413.8	419.2	428.7	435.5
57.5°	352.4	350.7	348.6	350.1	348.6	350.7	352.4	360.3	365.6	373.1	381.4
60°	319.2	319.2	319.2	318.5	319.2	319.2	319.2	326.0	330.7	338.2	347.1
62.5°	293.6	291.9	291.4	292.4	291.4	291.9	293.6	296.6	301.3	306.1	313.9
65°	254.5	253.8	251.1	250.4	251.1	253.8	254.5	256.6	260.6	264.0	269.5
67.5°	217.6	215.2	214.4	213.4	214.4	215.2	217.6	219.4	222.1	226.5	229.2
70°	189.9	188.5	184.4	185.1	184.4	188.5	189.9	193.3	196.0	201.4	204.2
72.5°	159.9	158.6	157.7	156.8	157.7	158.6	159.9	163.3	166.0	172.0	176.4
75°	126.6	125.9	125.2	127.9	125.2	125.9	126.6	127.3	127.9	130.0	132.0
77.5°	101.4	101.4	101.8	100.7	101.8	101.4	101.4	101.4	101.4	102.5	102.9
80°	85.1	85.1	84.4	84.4	84.4	85.1	85.1	85.1	85.1	85.1	84.4
82.5°	68.2	68.7	69.1	68.1	69.1	68.7	68.2	69.3	69.8	68.7	69.1
85°	44.9	44.2	45.6	44.9	45.6	44.2	44.9	44.9	43.6	44.9	44.2
87.5°	22.7	21.7	21.7	22.3	21.7	21.7	22.7	21.6	21.6	21.5	20.8
90°	13.0	13.2	13.4	13.6	13.4	13.2	13.0	12.8	12.5	12.1	11.7
92.5°	18.7	18.5	18.4	18.3	18.4	18.5	18.7	18.8	18.7	18.4	18.0
95°	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.1	34.7	34.3
97.5°	54.5	54.5	54.4	54.4	54.4	54.5	54.5	54.5	54.3	53.9	53.4
100°	68.3	68.5	68.7	68.9	68.7	68.5	68.3	68.1	67.8	67.5	67.2
102.5°	83.9	83.8	83.8	83.7	83.8	83.8	83.9	83.9	83.8	83.5	83.2
105°	107.3	107.5	107.7	107.9	107.7	107.5	107.3	107.0	106.9	106.9	106.9
107.5°	133.3	133.2	133.1	133.0	133.1	133.2	133.3	133.4	133.3	133.0	132.7
110°	150.6	150.4	150.2	150.0	150.2	150.4	150.6	150.8	150.7	150.3	149.9



TEST NUMBER: P332451

CATALOG NUMBER: S123RDIW-S1000D460U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	168.2	168.2	168.2	168.1	168.2	168.2	168.2	168.3	168.1	167.6	167.1
115°	193.4	193.3	193.2	193.1	193.2	193.3	193.4	193.5	193.5	193.4	193.3
117.5°	219.2	218.9	218.6	218.3	218.6	218.9	219.2	219.5	219.6	219.6	219.7
120°	236.7	236.5	236.3	236.1	236.3	236.5	236.7	236.9	237.1	237.2	237.3
122.5°	254.0	253.7	253.4	253.1	253.4	253.7	254.0	254.3	254.5	254.8	255.1
125°	279.9	279.5	279.1	278.7	279.1	279.5	279.9	280.3	280.7	281.1	281.5
127.5°	305.6	305.1	304.6	304.2	304.6	305.1	305.6	306.0	306.5	307.1	307.7
130°	323.0	322.3	321.6	320.8	321.6	322.3	323.0	323.7	324.2	324.6	325.0
132.5°	339.9	339.3	338.8	338.2	338.8	339.3	339.9	340.4	340.9	341.4	341.9
135°	365.9	365.7	365.5	365.3	365.5	365.7	365.9	366.1	366.4	366.8	367.2
137.5°	390.2	389.9	389.5	389.1	389.5	389.9	390.2	390.6	391.0	391.5	391.9
140°	406.8	406.1	405.4	404.7	405.4	406.1	406.8	407.5	407.9	408.0	408.1
142.5°	422.3	421.7	421.2	420.6	421.2	421.7	422.3	422.8	423.1	423.2	423.3
145°	444.9	444.5	444.1	443.7	444.1	444.5	444.9	445.3	445.5	445.6	445.7
147.5°	466.0	465.3	464.7	464.1	464.7	465.3	466.0	466.6	466.9	466.9	466.9
150°	479.0	478.4	477.8	477.2	477.8	478.4	479.0	479.6	479.9	479.9	479.9
152.5°	491.5	490.9	490.4	489.9	490.4	490.9	491.5	492.0	492.2	492.0	491.8
155°	509.2	508.5	507.8	507.1	507.8	508.5	509.2	509.9	510.1	509.7	509.3
157.5°	524.5	523.9	523.3	522.8	523.3	523.9	524.5	525.0	525.1	524.7	524.3
160°	534.1	533.7	533.3	532.9	533.3	533.7	534.1	534.5	534.5	534.0	533.5
162.5°	542.5	541.8	541.2	540.5	541.2	541.8	542.5	543.1	543.2	542.7	542.2
165°	553.6	552.9	552.2	551.5	552.2	552.9	553.6	554.3	554.4	553.8	553.2
167.5°	562.7	562.1	561.5	560.8	561.5	562.1	562.7	563.3	563.3	562.7	562.1
170°	567.7	567.0	566.3	565.6	566.3	567.0	567.7	568.4	568.4	567.7	567.0
172.5°	571.3	570.6	569.9	569.2	569.9	570.6	571.3	572.0	572.0	571.4	570.8
175°	575.4	574.7	574.0	573.3	574.0	574.7	575.4	576.1	576.1	575.5	574.9
177.5°	577.1	576.6	576.0	575.4	576.0	576.6	577.1	577.7	577.7	577.3	576.8
180°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9



TEST NUMBER: P332451

CATALOG NUMBER: S123RDIW-S1000D460U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1517.3	1524.9	1532.6	1539.6	1550.5	1555.4	1562.5	1565.2	1573.4	1585.4	1595.2
5°	1425.0	1435.9	1450.2	1461.8	1480.2	1494.4	1510.1	1525.1	1542.8	1567.9	1590.4
7.5°	1346.8	1357.5	1374.7	1396.2	1416.5	1436.7	1458.1	1478.5	1503.8	1539.9	1575.7
10°	1295.1	1308.0	1328.4	1351.5	1376.7	1396.5	1421.6	1447.5	1478.8	1520.3	1563.2
12.5°	1250.4	1260.1	1283.8	1305.8	1334.3	1359.4	1384.1	1414.3	1449.9	1494.2	1545.8
15°	1179.4	1193.0	1216.1	1240.6	1270.6	1297.1	1329.1	1365.8	1400.5	1455.0	1517.6
17.5°	1108.0	1128.7	1152.8	1180.5	1202.6	1239.2	1274.0	1311.7	1354.4	1412.1	1480.8
20°	1062.3	1078.6	1101.1	1141.3	1170.5	1198.4	1230.4	1277.4	1316.8	1382.2	1453.6
22.5°	1023.7	1035.6	1060.8	1093.9	1128.1	1160.3	1192.8	1237.6	1286.3	1348.4	1425.9
25°	966.4	985.4	1004.5	1028.3	1065.0	1103.8	1139.2	1177.3	1229.0	1295.1	1378.8
27.5°	910.4	927.7	946.5	975.7	1003.6	1039.9	1076.9	1120.6	1176.1	1245.9	1330.8
30°	874.5	887.4	905.1	942.5	967.7	999.0	1042.6	1081.4	1133.1	1207.3	1297.1
32.5°	837.5	854.2	873.5	902.3	933.4	963.1	1002.8	1044.9	1097.7	1170.8	1262.8
35°	784.7	804.4	824.1	845.2	876.5	907.2	940.5	986.8	1040.5	1111.3	1201.8
37.5°	736.1	752.0	768.0	794.2	823.9	853.0	884.1	929.7	980.4	1056.7	1139.8
40°	705.0	719.3	731.6	758.8	787.4	818.7	849.3	889.5	943.9	1015.4	1095.7
42.5°	671.3	684.5	701.1	723.4	754.2	780.6	811.2	849.2	900.3	972.9	1043.4
45°	620.6	635.6	649.9	671.0	701.6	727.5	754.7	790.8	843.2	903.1	965.7
47.5°	568.0	582.9	599.3	619.7	646.4	672.6	699.9	731.8	779.6	838.4	880.6
50°	534.2	546.5	562.8	583.2	607.7	635.6	660.1	694.8	740.4	786.7	823.4
52.5°	499.4	510.5	529.0	550.6	573.4	597.5	623.6	653.4	694.7	738.2	767.4
55°	445.1	458.7	474.3	495.4	517.9	538.3	563.5	594.1	626.8	659.4	679.2
57.5°	394.3	405.6	418.8	440.6	460.0	484.4	507.0	530.8	561.0	585.7	598.6
60°	357.3	367.5	384.5	403.6	421.9	443.0	468.9	492.7	515.8	535.6	545.8
62.5°	322.4	334.3	349.1	366.5	386.5	406.6	429.1	449.2	469.6	486.6	493.5
65°	277.0	286.5	297.4	313.7	330.1	350.5	368.2	388.6	403.6	413.1	419.2
67.5°	235.6	241.9	250.2	261.1	277.1	294.9	312.1	328.0	340.5	347.1	352.5
70°	208.9	213.0	219.1	230.0	242.3	257.9	275.6	287.2	298.1	303.5	309.0
72.5°	182.2	187.4	193.0	201.7	211.8	223.1	235.9	250.2	256.2	262.7	266.0
75°	138.1	145.6	153.1	158.6	165.4	174.2	185.8	194.6	198.0	203.5	204.2
77.5°	104.3	105.9	111.3	118.1	123.9	130.3	137.6	145.5	147.1	150.0	151.8
80°	85.7	85.7	85.7	89.8	96.6	101.4	108.2	112.3	115.0	115.7	116.4
82.5°	68.9	68.9	68.3	69.1	71.6	74.2	80.4	85.1	87.2	86.8	85.3
85°	44.9	43.6	43.6	42.9	43.6	42.2	41.5	44.2	48.3	48.3	47.0
87.5°	20.8	20.1	20.4	19.6	18.8	18.0	16.1	16.5	16.3	18.3	17.5
90°	11.3	10.9	9.6	8.3	6.9	5.6	4.5	3.5	2.5	1.5	0.5
92.5°	17.7	17.4	16.7	15.9	15.2	14.4	13.7	13.0	12.3	11.7	11.0
95°	33.9	33.5	32.7	31.9	31.1	30.3	29.6	28.9	28.1	27.4	26.7
97.5°	52.9	52.5	51.9	51.3	50.7	50.1	49.6	49.1	48.5	48.0	47.5
100°	66.9	66.6	66.1	65.6	65.1	64.6	64.0	63.4	62.8	62.2	61.6
102.5°	82.9	82.6	81.9	81.2	80.6	79.9	79.4	79.0	78.7	78.3	77.9
105°	106.9	106.9	106.0	105.1	104.2	103.3	102.8	102.6	102.4	102.2	102.0
107.5°	132.4	132.1	131.7	131.3	131.0	130.6	130.4	130.2	130.1	130.0	129.9
110°	149.5	149.1	148.9	148.7	148.5	148.3	148.1	147.9	147.7	147.5	147.3



TEST NUMBER: P332451

CATALOG NUMBER: S123RDIW-S1000D460U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	166.6	166.1	166.1	166.1	166.0	166.0	165.9	165.8	165.7	165.5	165.4
115°	193.2	193.1	193.3	193.5	193.7	193.9	193.8	193.5	193.2	192.9	192.6
117.5°	219.7	219.7	220.0	220.2	220.5	220.7	220.8	220.6	220.4	220.2	220.0
120°	237.4	237.5	238.0	238.5	239.0	239.5	239.4	238.8	238.2	237.6	237.0
122.5°	255.3	255.6	255.9	256.1	256.4	256.6	256.5	256.1	255.7	255.2	254.8
125°	281.9	282.3	282.5	282.7	282.9	283.1	283.1	282.8	282.5	282.2	281.9
127.5°	308.2	308.8	309.0	309.2	309.5	309.7	309.5	308.8	308.2	307.5	306.9
130°	325.4	325.8	326.1	326.4	326.7	327.0	326.8	326.0	325.2	324.4	323.6
132.5°	342.4	342.9	343.1	343.3	343.5	343.8	343.5	342.7	341.9	341.0	340.2
135°	367.6	368.0	368.1	368.2	368.3	368.4	368.1	367.5	366.9	366.3	365.7
137.5°	392.3	392.7	392.5	392.2	391.9	391.7	391.3	390.8	390.3	389.8	389.3
140°	408.2	408.3	408.2	408.1	408.0	407.9	407.6	407.1	406.6	406.1	405.6
142.5°	423.4	423.5	423.4	423.2	423.0	422.8	422.5	422.0	421.5	421.0	420.5
145°	445.8	445.9	445.6	445.3	445.0	444.7	444.5	444.3	444.1	443.9	443.7
147.5°	466.9	466.9	466.6	466.3	466.0	465.7	465.4	465.0	464.7	464.3	464.0
150°	479.9	479.9	479.7	479.5	479.3	479.1	478.9	478.7	478.5	478.3	478.1
152.5°	491.7	491.5	491.4	491.3	491.1	491.0	490.8	490.5	490.3	490.0	489.7
155°	508.9	508.5	508.4	508.3	508.2	508.1	508.0	508.0	508.0	508.0	508.0
157.5°	523.8	523.4	523.3	523.3	523.2	523.1	523.1	523.2	523.4	523.5	523.6
160°	533.0	532.5	532.5	532.5	532.5	532.5	532.6	532.8	533.0	533.2	533.4
162.5°	541.7	541.2	541.1	541.0	540.9	540.9	541.0	541.2	541.5	541.8	542.1
165°	552.6	552.0	552.0	552.0	552.0	552.0	552.1	552.4	552.7	553.0	553.3
167.5°	561.5	560.8	560.8	560.7	560.6	560.5	560.7	561.1	561.5	561.9	562.3
170°	566.3	565.6	565.6	565.6	565.6	565.6	565.8	566.2	566.6	567.0	567.4
172.5°	570.2	569.5	569.5	569.5	569.5	569.5	569.7	570.2	570.6	571.0	571.4
175°	574.3	573.7	573.7	573.7	573.7	573.7	573.9	574.3	574.7	575.1	575.5
177.5°	576.3	575.8	575.8	575.8	575.8	575.8	576.0	576.3	576.6	576.9	577.3
180°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9



TEST NUMBER: P332451

CATALOG NUMBER: S123RDIW-S1000D460U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1598.4	1604.4	1612.0	1623.5	1632.2	1639.8	1641.4	1643.6	1649.1	1658.3	1665.4
5°	1608.8	1624.4	1649.6	1674.1	1700.7	1722.4	1742.8	1757.1	1770.7	1799.3	1822.5
7.5°	1605.5	1640.4	1679.8	1723.8	1768.3	1811.4	1851.5	1887.3	1922.9	1964.6	2012.1
10°	1603.3	1644.2	1697.2	1753.7	1815.7	1876.2	1934.8	1980.4	2033.4	2081.1	2141.6
12.5°	1593.0	1651.8	1715.2	1787.5	1863.6	1933.4	2010.4	2073.4	2134.2	2203.0	2273.4
15°	1579.5	1651.0	1731.3	1827.2	1942.9	2027.3	2106.2	2215.8	2290.7	2365.5	2466.3
17.5°	1554.9	1642.1	1742.4	1867.1	1963.6	2077.0	2195.8	2282.4	2383.2	2488.7	2579.9
20°	1535.3	1636.7	1749.0	1871.5	1994.6	2117.8	2232.8	2336.3	2440.4	2562.2	2637.1
22.5°	1515.7	1616.0	1732.6	1862.8	1995.2	2124.9	2255.1	2376.6	2493.7	2616.6	2712.2
25°	1474.0	1593.1	1719.7	1852.4	1983.1	2126.0	2281.1	2416.6	2561.5	2688.1	2778.6
27.5°	1431.8	1541.0	1667.0	1801.6	1946.9	2115.8	2298.3	2452.2	2597.5	2688.1	2716.6
30°	1393.7	1509.4	1625.1	1761.9	1919.1	2107.6	2301.6	2477.8	2596.9	2636.4	2607.1
32.5°	1355.1	1459.9	1574.5	1714.5	1881.5	2087.5	2305.9	2462.6	2534.3	2504.1	2385.0
35°	1286.9	1381.5	1492.4	1632.6	1824.5	2076.3	2288.0	2394.1	2376.4	2206.3	1981.7
37.5°	1213.9	1291.0	1393.7	1540.3	1765.4	2032.1	2210.6	2226.3	2073.2	1812.0	1552.6
40°	1156.2	1225.6	1331.1	1484.2	1719.7	1988.5	2132.8	2069.5	1832.0	1541.4	1325.0
42.5°	1100.1	1158.7	1260.3	1425.4	1676.2	1929.2	2016.8	1879.0	1605.0	1330.2	1133.4
45°	1005.1	1060.3	1162.3	1331.8	1587.0	1815.7	1804.1	1564.5	1290.3	1069.1	905.8
47.5°	915.0	963.2	1059.0	1232.0	1482.3	1645.5	1537.3	1282.4	1049.8	872.3	755.8
50°	851.3	899.0	994.3	1165.1	1398.5	1517.6	1363.1	1117.4	904.4	757.4	664.9
52.5°	790.4	836.9	924.0	1090.5	1297.2	1368.4	1202.5	974.8	797.2	670.3	590.8
55°	705.0	740.4	818.7	977.9	1132.4	1148.7	980.6	790.1	643.8	555.3	500.9
57.5°	618.1	648.5	725.9	852.7	961.0	952.6	793.2	628.4	529.9	464.1	424.7
60°	561.4	591.4	659.4	768.3	850.0	821.4	675.1	542.4	458.0	409.7	378.4
62.5°	508.6	532.0	595.7	675.2	734.0	701.6	577.1	467.3	400.3	359.6	334.8
65°	432.1	451.2	502.2	543.7	576.4	545.1	441.7	365.4	317.1	288.5	271.5
67.5°	359.5	371.6	403.8	418.8	441.8	407.5	332.1	281.1	253.6	229.5	217.6
70°	313.7	322.6	339.6	351.8	358.0	322.6	266.8	229.3	206.2	189.2	181.7
72.5°	268.0	275.8	279.2	289.2	286.1	252.9	214.5	184.7	168.1	156.5	146.9
75°	204.8	208.2	204.8	200.8	191.9	168.8	142.2	127.3	115.0	109.6	106.2
77.5°	149.3	148.2	143.6	137.2	122.1	107.5	93.2	88.2	82.9	80.0	78.8
80°	115.0	112.3	108.2	98.0	85.1	74.9	71.5	68.1	66.0	62.6	61.9
82.5°	85.6	84.0	77.2	68.6	59.5	54.7	51.9	50.6	48.6	46.8	46.7
85°	45.6	43.6	36.1	31.3	29.9	28.6	27.9	27.9	25.2	24.5	24.5
87.5°	15.0	11.9	11.6	10.2	10.4	9.6	10.4	9.5	9.3	9.9	8.9
90°	1.5	2.5	3.5	4.5	5.6	6.9	8.3	9.6	10.9	11.3	11.7
92.5°	11.7	12.3	13.0	13.7	14.4	15.2	15.9	16.7	17.4	17.7	18.0
95°	27.4	28.1	28.9	29.6	30.3	31.1	31.9	32.7	33.5	33.9	34.3
97.5°	48.0	48.5	49.1	49.6	50.1	50.7	51.3	51.9	52.5	52.9	53.4
100°	62.2	62.8	63.4	64.0	64.6	65.1	65.6	66.1	66.6	66.9	67.2
102.5°	78.3	78.7	79.0	79.4	79.9	80.6	81.2	81.9	82.6	82.9	83.2
105°	102.2	102.4	102.6	102.8	103.3	104.2	105.1	106.0	106.9	106.9	106.9
107.5°	130.0	130.1	130.2	130.4	130.6	131.0	131.3	131.7	132.1	132.4	132.7
110°	147.5	147.7	147.9	148.1	148.3	148.5	148.7	148.9	149.1	149.5	149.9





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	165.5	165.7	165.8	165.9	166.0	166.0	166.1	166.1	166.1	166.6	167.1
115°	192.9	193.2	193.5	193.8	193.9	193.7	193.5	193.3	193.1	193.2	193.3
117.5°	220.2	220.4	220.6	220.8	220.7	220.5	220.2	220.0	219.7	219.7	219.7
120°	237.6	238.2	238.8	239.4	239.5	239.0	238.5	238.0	237.5	237.4	237.3
122.5°	255.2	255.7	256.1	256.5	256.6	256.4	256.1	255.9	255.6	255.3	255.1
125°	282.2	282.5	282.8	283.1	283.1	282.9	282.7	282.5	282.3	281.9	281.5
127.5°	307.5	308.2	308.8	309.5	309.7	309.5	309.2	309.0	308.8	308.2	307.7
130°	324.4	325.2	326.0	326.8	327.0	326.7	326.4	326.1	325.8	325.4	325.0
132.5°	341.0	341.9	342.7	343.5	343.8	343.5	343.3	343.1	342.9	342.4	341.9
135°	366.3	366.9	367.5	368.1	368.4	368.3	368.2	368.1	368.0	367.6	367.2
137.5°	389.8	390.3	390.8	391.3	391.7	391.9	392.2	392.5	392.7	392.3	391.9
140°	406.1	406.6	407.1	407.6	407.9	408.0	408.1	408.2	408.3	408.2	408.1
142.5°	421.0	421.5	422.0	422.5	422.8	423.0	423.2	423.4	423.5	423.4	423.3
145°	443.9	444.1	444.3	444.5	444.7	445.0	445.3	445.6	445.9	445.8	445.7
147.5°	464.3	464.7	465.0	465.4	465.7	466.0	466.3	466.6	466.9	466.9	466.9
150°	478.3	478.5	478.7	478.9	479.1	479.3	479.5	479.7	479.9	479.9	479.9
152.5°	490.0	490.3	490.5	490.8	491.0	491.1	491.3	491.4	491.5	491.7	491.8
155°	508.0	508.0	508.0	508.0	508.1	508.2	508.3	508.4	508.5	508.9	509.3
157.5°	523.5	523.4	523.2	523.1	523.1	523.2	523.3	523.3	523.4	523.8	524.3
160°	533.2	533.0	532.8	532.6	532.5	532.5	532.5	532.5	532.5	533.0	533.5
162.5°	541.8	541.5	541.2	541.0	540.9	540.9	541.0	541.1	541.2	541.7	542.2
165°	553.0	552.7	552.4	552.1	552.0	552.0	552.0	552.0	552.0	552.6	553.2
167.5°	561.9	561.5	561.1	560.7	560.5	560.6	560.7	560.8	560.8	561.5	562.1
170°	567.0	566.6	566.2	565.8	565.6	565.6	565.6	565.6	565.6	566.3	567.0
172.5°	571.0	570.6	570.2	569.7	569.5	569.5	569.5	569.5	569.5	570.2	570.8
175°	575.1	574.7	574.3	573.9	573.7	573.7	573.7	573.7	573.7	574.3	574.9
177.5°	576.9	576.6	576.3	576.0	575.8	575.8	575.8	575.8	575.8	576.3	576.8
180°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1676.8	1676.8	1679.0	1687.2	1688.3	1695.3	1693.2
5°	1842.9	1855.8	1860.6	1881.0	1893.2	1898.7	1887.8
7.5°	2046.0	2082.4	2099.7	2121.1	2140.0	2145.7	2130.9
10°	2194.0	2232.1	2264.1	2283.9	2302.2	2314.5	2330.1
12.5°	2337.2	2384.0	2414.4	2442.3	2461.2	2476.7	2479.3
15°	2492.8	2563.6	2617.3	2656.8	2676.5	2686.7	2682.7
17.5°	2649.7	2715.3	2753.6	2793.9	2821.2	2822.6	2823.4
20°	2738.5	2802.4	2846.7	2876.6	2907.2	2905.9	2912.7
22.5°	2797.8	2848.2	2882.1	2903.8	2914.3	2909.1	2910.5
25°	2825.6	2840.5	2834.4	2799.7	2790.9	2758.9	2764.3
27.5°	2682.4	2611.6	2538.4	2444.2	2369.9	2310.5	2313.5
30°	2488.0	2362.8	2219.9	2100.1	1992.6	1962.7	1898.7
32.5°	2216.4	2028.5	1861.1	1749.5	1657.2	1632.2	1576.4
35°	1755.8	1573.4	1401.2	1297.8	1256.9	1199.8	1199.1
37.5°	1364.7	1204.1	1113.1	1035.5	994.8	960.2	956.8
40°	1148.1	1022.8	954.1	898.3	858.2	832.3	826.2
42.5°	996.7	895.4	831.1	796.5	765.6	752.3	742.3
45°	813.9	745.9	700.9	669.6	655.4	645.1	639.7
47.5°	680.8	635.2	604.6	583.8	572.2	561.4	564.3
50°	608.4	571.0	548.5	528.8	519.9	512.4	513.1
52.5°	550.1	516.5	498.4	484.1	473.1	467.8	465.2
55°	466.8	445.7	427.4	417.2	411.0	403.6	401.5
57.5°	398.2	381.9	366.9	355.4	353.9	346.7	347.6
60°	352.5	338.9	326.7	320.5	315.8	309.6	311.7
62.5°	315.0	303.5	292.4	287.3	282.6	278.1	279.0
65°	257.9	247.0	240.2	237.5	235.5	233.4	231.4
67.5°	205.5	198.9	194.6	188.8	184.6	183.9	181.8
70°	172.9	164.0	156.5	149.0	147.0	146.3	147.0
72.5°	138.6	133.0	130.9	127.3	126.9	125.1	126.3
75°	104.1	102.1	100.7	98.0	98.0	98.0	98.0
77.5°	76.8	75.5	74.7	74.2	73.5	72.5	72.4
80°	59.9	59.2	57.8	57.8	57.2	57.8	57.2
82.5°	45.2	45.1	43.7	43.7	43.0	42.6	43.0
85°	23.1	22.5	23.8	22.5	23.1	21.8	23.1
87.5°	9.0	9.0	8.5	8.6	8.1	9.2	8.2
90°	12.1	12.5	12.8	13.0	13.2	13.4	13.6
92.5°	18.4	18.7	18.8	18.7	18.5	18.4	18.3
95°	34.7	35.1	35.3	35.3	35.3	35.3	35.3
97.5°	53.9	54.3	54.5	54.5	54.5	54.4	54.4
100°	67.5	67.8	68.1	68.3	68.5	68.7	68.9
102.5°	83.5	83.8	83.9	83.9	83.8	83.8	83.7
105°	106.9	106.9	107.0	107.3	107.5	107.7	107.9
107.5°	133.0	133.3	133.4	133.3	133.2	133.1	133.0
110°	150.3	150.7	150.8	150.6	150.4	150.2	150.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	167.6	168.1	168.3	168.2	168.2	168.2	168.1
115°	193.4	193.5	193.5	193.4	193.3	193.2	193.1
117.5°	219.6	219.6	219.5	219.2	218.9	218.6	218.3
120°	237.2	237.1	236.9	236.7	236.5	236.3	236.1
122.5°	254.8	254.5	254.3	254.0	253.7	253.4	253.1
125°	281.1	280.7	280.3	279.9	279.5	279.1	278.7
127.5°	307.1	306.5	306.0	305.6	305.1	304.6	304.2
130°	324.6	324.2	323.7	323.0	322.3	321.6	320.8
132.5°	341.4	340.9	340.4	339.9	339.3	338.8	338.2
135°	366.8	366.4	366.1	365.9	365.7	365.5	365.3
137.5°	391.5	391.0	390.6	390.2	389.9	389.5	389.1
140°	408.0	407.9	407.5	406.8	406.1	405.4	404.7
142.5°	423.2	423.1	422.8	422.3	421.7	421.2	420.6
145°	445.6	445.5	445.3	444.9	444.5	444.1	443.7
147.5°	466.9	466.9	466.6	466.0	465.3	464.7	464.1
150°	479.9	479.9	479.6	479.0	478.4	477.8	477.2
152.5°	492.0	492.2	492.0	491.5	490.9	490.4	489.9
155°	509.7	510.1	509.9	509.2	508.5	507.8	507.1
157.5°	524.7	525.1	525.0	524.5	523.9	523.3	522.8
160°	534.0	534.5	534.5	534.1	533.7	533.3	532.9
162.5°	542.7	543.2	543.1	542.5	541.8	541.2	540.5
165°	553.8	554.4	554.3	553.6	552.9	552.2	551.5
167.5°	562.7	563.3	563.3	562.7	562.1	561.5	560.8
170°	567.7	568.4	568.4	567.7	567.0	566.3	565.6
172.5°	571.4	572.0	572.0	571.3	570.6	569.9	569.2
175°	575.5	576.1	576.1	575.4	574.7	574.0	573.3
177.5°	577.3	577.7	577.7	577.1	576.6	576.0	575.4
180°	576.9	576.9	576.9	576.9	576.9	576.9	576.9

(END OF REPORT)