

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: P331825

Luminaire Tested: **S122RDIW-S865D435U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331825  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIW-S865D435U835-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 435 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5032.7 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

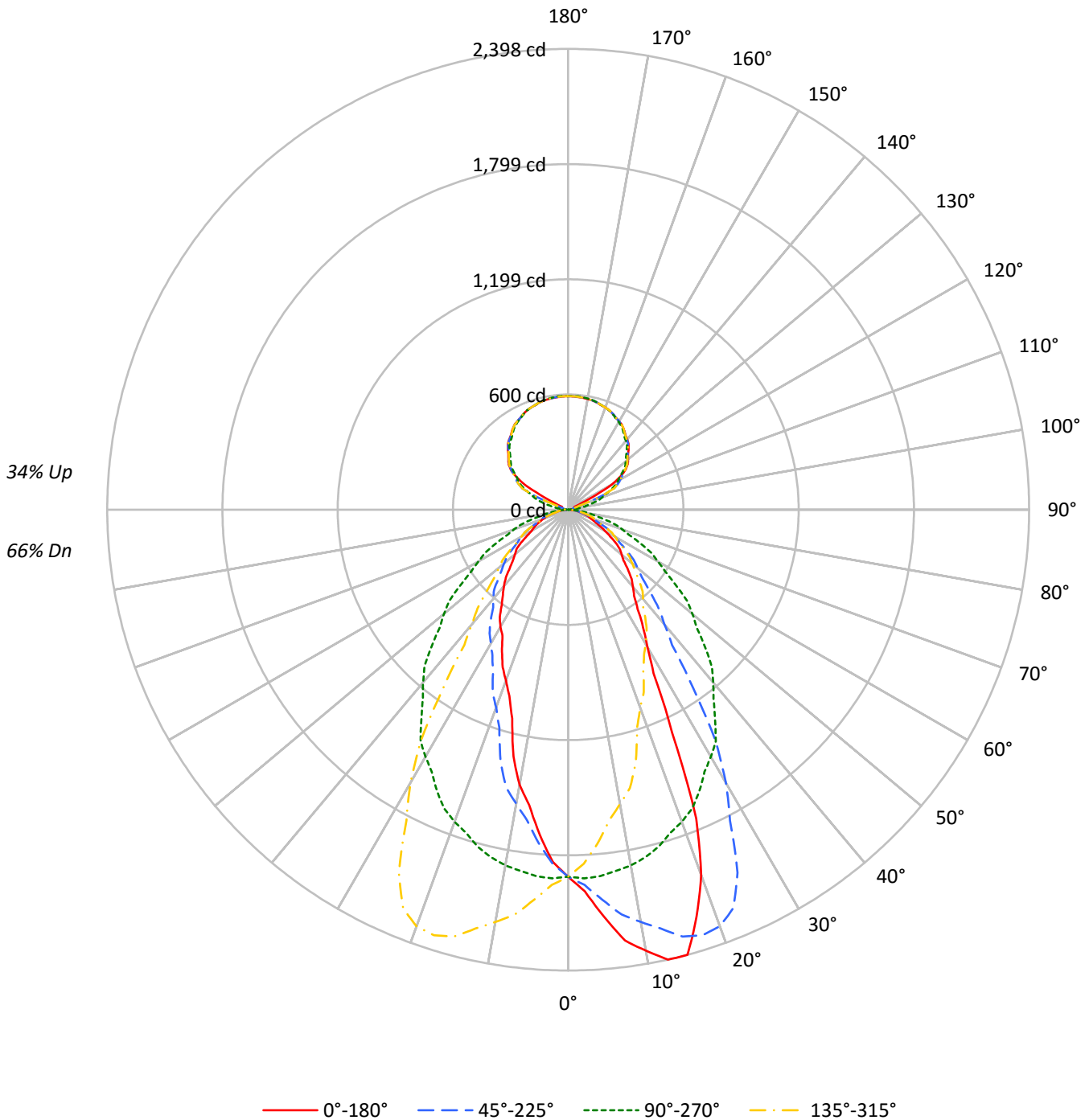
Input Watts (W): 46.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66
1	102	98	95	91	96	93	90	87	82	80	78	73	71	69	64	63	61	57
2	94	87	81	76	88	82	77	73	73	69	66	65	62	60	58	55	53	50
3	87	78	71	65	81	73	67	62	66	61	57	59	55	52	52	49	47	43
4	80	70	62	56	75	66	59	54	59	54	50	53	49	45	47	44	41	38
5	74	63	55	49	69	60	53	47	54	48	44	48	44	40	43	40	37	34
6	69	57	49	43	65	54	47	42	49	43	39	44	40	36	40	36	33	31
7	64	52	44	39	60	50	43	38	45	39	35	41	36	32	37	33	30	28
8	60	48	40	35	56	45	39	34	41	36	32	38	33	29	34	30	27	25
9	56	44	37	32	53	42	35	31	38	33	29	35	30	27	32	28	25	23
10	52	41	34	29	50	39	32	28	36	30	26	33	28	25	30	26	23	21

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

	0°	90°	180°	270°
0°	30832	30832	30832	30832
5°	34434	31024	27509	31024
10°	38203	30808	23845	30808
15°	40082	30355	18788	30355
20°	34749	29687	16258	29687
25°	22789	28771	14516	28771
30°	15340	27660	13136	27660
35°	12423	26260	11848	26260
40°	11049	24738	10964	24738
45°	9999	22952	9787	22952
50°	9100	21182	9065	21182
55°	8555	19220	8442	19220
60°	7156	17418	7072	17418
65°	6032	15817	6842	15817
70°	5575	14124	6453	14124
75°	5215	12296	5958	12296
80°	4816	10116	5309	10116
85°	4428	7984	4668	7984



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.0	3.6
10°-20°	504.4	10.0
20°-30°	650.0	12.9
30°-40°	617.7	12.3
40°-50°	529.1	10.5
50°-60°	402.9	8.0
60°-70°	254.7	5.1
70°-80°	127.2	2.5
80°-90°	34.6	0.7
90°-100°	19.7	0.4
100°-110°	72.3	1.4
110°-120°	193.1	3.8
120°-130°	318.8	6.3
130°-140°	339.1	6.7
140°-150°	315.2	6.3
150°-160°	253.4	5.0
160°-170°	163.3	3.2
170°-180°	56.2	1.1
0°-30°	1335.4	26.5
0°-40°	1953.1	38.8
0°-60°	2885.1	57.3
0°-90°	3301.6	65.6
90°-120°	285.1	5.7
90°-150°	1258.2	25.0
90°-180°	1731.0	34.4
0°-180°	5032.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1910	1910	1910	1910	1910	
5°	2125	1914	1697	1914	2125	210
15°	2398	1816	1124	1816	2398	647
25°	1279	1615	815	1615	1279	607
35°	630	1332	601	1332	630	403
45°	438	1005	429	1005	438	339
55°	304	683	300	683	304	267
65°	158	414	179	414	158	161
75°	84	197	96	197	84	89
85°	24	43	25	43	24	26
90°	12	0	12	0	12	6
95°	18	28	18	28	18	17
105°	32	130	32	130	32	34
115°	35	246	35	246	35	88
125°	365	348	365	348	365	316
135°	444	430	444	430	444	342
145°	506	499	506	499	506	317
155°	550	549	550	549	550	254
165°	577	579	577	579	577	163
175°	589	592	589	592	589	56
180°	591	591	591	591	591	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1987.1	1988.7	1990.3	1986.5	1986.5	1983.4	1976.5	1971.2	1956.3	1954.2	1954.2
5°	2124.6	2123.2	2125.9	2117.3	2105.3	2102.7	2090.1	2073.5	2056.2	2037.0	2033.0
7.5°	2261.2	2259.2	2253.9	2252.5	2243.3	2223.3	2203.0	2181.4	2152.7	2124.7	2110.6
10°	2330.2	2352.1	2338.9	2315.6	2320.3	2289.1	2272.5	2244.0	2220.1	2178.3	2169.0
12.5°	2398.2	2406.8	2402.6	2389.4	2383.5	2361.8	2339.4	2314.6	2270.5	2233.0	2200.3
15°	2397.9	2410.5	2413.8	2409.9	2413.2	2411.9	2399.9	2379.3	2340.9	2299.7	2263.9
17.5°	2220.9	2229.7	2251.4	2266.1	2284.7	2324.0	2343.4	2350.9	2345.2	2321.7	2296.5
20°	2022.4	2007.8	2068.8	2100.0	2126.5	2192.9	2250.0	2271.9	2307.0	2306.4	2299.7
22.5°	1741.0	1744.5	1802.4	1839.4	1916.9	1983.2	2048.3	2130.7	2198.7	2243.7	2270.0
25°	1279.2	1304.5	1362.2	1412.6	1498.9	1622.3	1734.4	1864.5	1987.2	2084.1	2176.3
27.5°	960.8	962.6	1008.4	1055.0	1106.2	1207.3	1348.5	1503.8	1678.8	1823.2	1989.3
30°	822.8	818.8	838.0	866.5	910.3	988.6	1094.8	1247.4	1421.9	1639.5	1833.3
32.5°	725.1	725.3	739.8	760.9	797.3	850.1	922.8	1046.8	1211.7	1425.6	1652.8
35°	630.3	629.7	640.3	655.5	670.8	704.6	754.4	819.4	932.9	1132.6	1364.8
37.5°	562.4	565.3	570.5	580.0	596.9	615.7	645.6	689.3	770.1	888.2	1083.4
40°	524.2	525.5	532.8	540.8	550.7	565.3	589.9	625.0	684.1	778.3	920.9
42.5°	489.1	490.5	495.6	503.1	510.9	525.5	545.8	576.2	624.1	697.6	815.3
45°	437.9	437.9	442.6	445.9	454.5	467.8	484.4	509.6	542.7	597.2	675.5
47.5°	389.9	390.0	393.1	398.8	404.2	414.6	430.9	451.5	475.6	517.7	584.6
50°	362.3	362.9	364.9	369.6	372.9	382.2	394.8	412.7	437.9	470.4	526.2
52.5°	340.0	339.6	342.1	344.1	346.4	353.0	362.4	378.2	400.8	429.0	475.2
55°	303.9	301.2	305.2	308.5	310.5	313.2	318.5	328.4	347.7	371.6	406.1
57.5°	258.8	257.7	260.5	263.5	269.8	276.9	281.5	287.8	297.8	314.9	349.1
60°	221.6	221.6	227.6	229.6	236.9	246.2	255.5	260.8	270.7	282.0	307.2
62.5°	188.7	189.2	192.0	194.0	198.1	209.5	222.5	234.2	243.6	254.4	271.1
65°	157.9	159.2	159.2	160.6	163.2	165.9	171.2	180.5	197.1	212.3	224.9
67.5°	134.0	134.4	134.8	136.2	136.8	139.7	141.9	146.0	149.8	164.3	179.9
70°	118.1	120.1	119.4	120.8	121.4	122.7	125.4	127.4	133.4	136.7	146.0
72.5°	103.2	104.7	104.6	105.4	107.1	107.4	109.5	111.5	115.3	118.1	123.1
75°	83.6	82.9	83.6	84.9	85.6	86.3	86.3	88.9	90.9	93.6	96.9
77.5°	64.5	65.2	65.0	65.2	65.3	66.5	66.4	67.5	69.5	70.9	72.5
80°	51.8	52.4	51.8	52.4	53.1	53.7	53.1	53.7	55.7	57.1	57.1
82.5°	40.1	40.2	40.6	40.7	40.9	41.0	41.9	42.1	43.5	43.3	43.8
85°	23.9	23.2	23.2	23.2	23.9	24.5	23.9	23.9	24.5	24.5	24.5
87.5°	10.8	11.3	11.3	11.2	11.2	11.1	11.0	11.5	10.8	11.3	10.6
90°	11.5	11.4	11.2	11.0	10.8	10.4	10.0	9.5	9.0	8.5	7.8
92.5°	11.5	11.4	11.3	11.2	11.1	10.9	10.7	10.4	10.2	9.9	9.5
95°	18.4	18.5	18.6	18.7	18.8	18.6	18.1	17.6	17.1	16.7	16.0
97.5°	24.5	24.4	24.3	24.2	24.1	23.8	23.5	23.1	22.7	22.3	20.8
100°	28.6	28.4	28.3	28.1	27.9	27.4	26.6	25.9	25.1	24.4	22.7
102.5°	30.7	30.4	30.2	29.9	29.6	29.0	28.0	27.0	26.0	25.0	38.6
105°	32.5	32.1	31.7	31.3	31.0	30.3	29.2	28.2	27.1	26.1	52.0
107.5°	33.4	33.0	32.7	32.3	31.9	32.2	33.3	34.4	35.4	36.5	67.6
110°	33.8	33.4	33.0	32.6	32.2	36.8	46.3	55.8	65.3	74.8	102.2



TEST NUMBER: P331825

CATALOG NUMBER: S122RDIW-S865D435U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	34.1	33.8	33.5	33.2	32.9	50.1	84.7	119.4	154.0	188.7	195.4
115°	35.0	41.9	48.7	55.6	62.4	87.8	131.8	175.8	219.7	263.7	261.3
117.5°	143.1	165.6	188.0	210.5	233.0	249.5	260.2	270.8	281.5	292.1	290.5
120°	260.7	273.5	286.4	299.2	312.0	317.9	316.7	315.6	314.4	313.3	311.6
122.5°	325.3	327.8	330.3	332.8	335.3	336.2	335.5	334.8	334.2	333.5	331.6
125°	365.4	365.2	364.9	364.6	364.3	363.8	363.2	362.5	361.8	361.2	359.4
127.5°	390.7	390.7	390.6	390.6	390.5	390.0	389.0	388.1	387.1	386.1	384.8
130°	406.5	406.6	406.7	406.8	406.9	406.4	405.3	404.3	403.2	402.2	401.2
132.5°	421.9	422.0	422.0	422.1	422.2	421.8	420.9	420.1	419.2	418.3	417.2
135°	444.1	444.3	444.5	444.7	444.8	444.5	443.5	442.6	441.6	440.7	439.8
137.5°	464.3	464.7	465.0	465.3	465.6	465.3	464.4	463.5	462.5	461.6	460.6
140°	477.0	477.5	477.9	478.4	478.9	478.7	477.9	477.0	476.1	475.3	474.2
142.5°	489.3	489.8	490.3	490.7	491.2	491.1	490.3	489.5	488.7	487.9	486.7
145°	506.5	507.0	507.4	507.9	508.4	508.3	507.6	507.0	506.3	505.6	504.0
147.5°	521.6	522.0	522.4	522.8	523.2	523.2	522.7	522.2	521.7	521.2	519.6
150°	530.9	531.3	531.8	532.3	532.8	532.7	532.1	531.6	531.0	530.4	528.9
152.5°	538.7	539.3	540.0	540.6	541.2	541.3	540.7	540.1	539.5	539.0	537.5
155°	549.7	550.4	551.2	551.9	552.7	552.8	552.2	551.7	551.1	550.5	549.4
157.5°	559.7	560.4	561.1	561.9	562.6	562.7	562.0	561.4	560.7	560.1	559.3
160°	565.5	566.1	566.8	567.5	568.1	568.2	567.6	567.0	566.5	565.9	565.3
162.5°	570.3	571.1	571.9	572.7	573.5	573.6	573.0	572.3	571.7	571.0	570.5
165°	577.4	578.1	578.8	579.4	580.1	580.1	579.4	578.8	578.1	577.4	577.2
167.5°	582.0	582.8	583.7	584.5	585.4	585.5	584.8	584.2	583.5	582.8	582.6
170°	584.7	585.6	586.4	587.3	588.1	588.2	587.6	586.9	586.2	585.6	585.4
172.5°	586.8	587.6	588.5	589.3	590.2	590.3	589.6	588.9	588.3	587.6	587.4
175°	588.6	589.5	590.5	591.4	592.4	592.5	591.8	591.2	590.5	589.8	589.6
177.5°	589.7	590.3	591.0	591.7	592.4	592.5	591.9	591.4	590.9	590.3	590.3
180°	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7



TEST NUMBER: P331825

CATALOG NUMBER: S122RDIW-S865D435U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1955.2	1951.0	1947.3	1937.7	1932.9	1922.3	1920.7	1920.2	1906.4	1893.1	1889.4
5°	2022.4	2011.8	1995.8	1977.3	1958.0	1938.1	1924.8	1914.2	1887.7	1862.5	1847.9
7.5°	2090.1	2067.2	2039.8	2004.6	1975.3	1942.4	1917.9	1896.0	1858.4	1822.3	1798.0
10°	2140.5	2103.3	2066.8	2018.4	1980.6	1943.4	1908.9	1879.1	1836.6	1788.8	1755.0
12.5°	2171.8	2130.9	2080.6	2033.3	1984.3	1937.0	1890.9	1852.5	1802.6	1753.3	1713.0
15°	2214.1	2170.3	2109.3	2041.6	1978.6	1916.9	1863.8	1816.0	1751.0	1691.9	1642.8
17.5°	2248.8	2188.5	2123.0	2044.7	1971.7	1893.3	1824.9	1763.9	1691.5	1620.3	1562.4
20°	2259.9	2200.2	2124.6	2046.3	1960.0	1867.8	1794.1	1727.8	1650.1	1572.5	1506.2
22.5°	2253.0	2206.6	2122.4	2028.7	1940.4	1843.9	1760.7	1683.7	1597.6	1518.4	1441.4
25°	2206.2	2190.2	2110.6	2008.4	1907.6	1795.5	1699.2	1615.0	1516.8	1431.9	1348.2
27.5°	2097.0	2131.3	2082.0	1973.1	1861.0	1740.8	1632.6	1536.7	1434.8	1339.2	1255.9
30°	1991.9	2070.8	2049.6	1948.7	1823.3	1705.2	1583.8	1483.6	1374.8	1276.6	1194.3
32.5°	1848.0	1978.4	1999.2	1914.8	1785.1	1655.3	1528.1	1428.4	1314.8	1211.3	1131.1
35°	1619.0	1814.0	1903.6	1849.9	1719.8	1579.8	1448.4	1332.3	1218.2	1116.0	1036.4
37.5°	1345.7	1611.4	1760.7	1764.5	1645.1	1499.5	1356.5	1241.2	1124.4	1024.1	937.9
40°	1168.4	1456.4	1650.8	1693.9	1593.1	1435.8	1291.2	1173.7	1059.6	961.4	862.6
42.5°	1009.2	1296.1	1535.1	1610.1	1529.9	1373.7	1228.6	1105.8	994.9	902.0	801.0
45°	816.1	1066.9	1330.3	1464.4	1419.9	1275.3	1122.0	1005.2	901.0	820.8	723.9
47.5°	688.5	865.2	1120.1	1301.4	1300.6	1168.6	1017.8	906.0	809.3	734.1	655.7
50°	615.7	769.7	985.3	1191.0	1208.2	1097.4	954.1	843.3	753.1	674.1	611.1
52.5°	550.4	677.3	871.2	1068.4	1117.5	1021.5	882.5	780.2	692.6	620.0	566.0
55°	465.1	563.3	710.6	895.1	969.4	901.7	778.3	682.8	611.8	550.7	504.3
57.5°	393.5	467.1	585.3	733.8	820.4	777.8	676.0	598.4	537.6	482.4	445.7
60°	348.3	408.7	508.9	633.0	728.5	698.7	611.8	539.4	487.7	439.9	405.4
62.5°	305.9	357.8	443.6	544.3	631.9	619.6	548.6	487.9	442.6	399.0	369.8
65°	246.2	284.0	351.0	430.0	500.3	506.3	455.2	414.0	373.6	339.1	313.2
67.5°	196.0	220.7	267.9	334.4	387.1	405.9	374.7	343.3	311.2	284.5	262.1
70°	165.2	185.1	219.6	273.4	321.8	341.7	323.8	299.2	271.4	249.5	230.2
72.5°	133.9	153.3	178.7	218.2	259.7	281.2	275.0	257.3	234.7	216.6	198.4
75°	100.9	106.8	124.1	150.6	183.1	201.7	206.4	197.1	179.1	165.2	154.6
77.5°	74.6	78.2	86.4	100.3	121.6	138.1	144.9	143.8	131.5	123.4	113.5
80°	59.7	61.7	65.7	71.7	87.6	104.2	108.8	108.8	100.2	96.9	86.9
82.5°	45.4	46.8	49.2	52.5	60.0	74.4	79.6	80.7	75.2	70.9	63.0
85°	25.9	25.2	26.5	28.5	29.9	33.8	41.8	43.1	41.8	36.5	34.5
87.5°	10.4	10.8	10.7	9.9	10.3	10.6	13.0	15.5	13.6	12.2	11.3
90°	7.0	6.3	5.5	4.6	3.6	2.5	1.5	0.4	1.5	2.5	3.6
92.5°	9.2	8.8	8.4	8.3	8.3	8.4	8.5	8.6	8.5	8.4	8.3
95°	15.3	14.7	14.0	15.2	18.4	21.5	24.6	27.8	24.6	21.5	18.4
97.5°	19.2	17.7	16.2	19.8	28.6	37.5	46.3	55.1	46.3	37.5	28.6
100°	21.1	19.5	17.9	23.6	36.6	49.6	62.6	75.7	62.6	49.6	36.6
102.5°	52.1	65.6	79.1	87.2	90.0	92.7	95.5	98.2	95.5	92.7	90.0
105°	77.9	103.9	129.8	141.3	138.5	135.6	132.8	129.9	132.8	135.6	138.5
107.5°	98.7	129.8	160.9	175.3	173.0	170.7	168.4	166.1	168.4	170.7	173.0
110°	129.7	157.1	184.6	197.3	195.3	193.3	191.3	189.3	191.3	193.3	195.3





TEST NUMBER: P331825

CATALOG NUMBER: S122RDIW-S865D435U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	202.2	209.0	215.8	218.3	216.5	214.8	213.0	211.2	213.0	214.8	216.5
115°	259.0	256.6	254.2	252.2	250.6	249.0	247.4	245.8	247.4	249.0	250.6
117.5°	288.8	287.2	285.6	283.8	282.0	280.2	278.4	276.6	278.4	280.2	282.0
120°	309.9	308.2	306.5	304.9	303.5	302.0	300.6	299.2	300.6	302.0	303.5
122.5°	329.7	327.9	326.0	324.3	322.8	321.3	319.8	318.3	319.8	321.3	322.8
125°	357.6	355.8	353.9	352.4	351.2	350.0	348.7	347.5	348.7	350.0	351.2
127.5°	383.4	382.1	380.7	379.4	378.0	376.6	375.3	373.9	375.3	376.6	378.0
130°	400.1	399.1	398.0	396.7	395.2	393.7	392.2	390.7	392.2	393.7	395.2
132.5°	416.2	415.1	414.1	412.9	411.6	410.3	409.0	407.8	409.0	410.3	411.6
135°	439.0	438.1	437.2	436.1	434.5	433.0	431.5	430.0	431.5	433.0	434.5
137.5°	459.7	458.7	457.7	456.7	455.7	454.6	453.5	452.5	453.5	454.6	455.7
140°	473.2	472.2	471.1	470.2	469.4	468.7	467.9	467.2	467.9	468.7	469.4
142.5°	485.5	484.3	483.2	482.2	481.5	480.8	480.2	479.5	480.2	480.8	481.5
145°	502.4	500.8	499.2	498.4	498.5	498.6	498.7	498.8	498.7	498.6	498.5
147.5°	518.0	516.4	514.8	514.2	514.6	514.9	515.3	515.6	515.3	514.9	514.6
150°	527.4	525.9	524.3	523.9	524.6	525.2	525.9	526.6	525.9	525.2	524.6
152.5°	536.1	534.6	533.2	532.8	533.6	534.3	535.1	535.8	535.1	534.3	533.6
155°	548.2	547.1	546.0	545.8	546.7	547.5	548.4	549.2	548.4	547.5	546.7
157.5°	558.5	557.7	556.9	556.9	557.6	558.3	559.0	559.7	559.0	558.3	557.6
160°	564.8	564.2	563.6	563.6	564.2	564.8	565.3	565.9	565.3	564.8	564.2
162.5°	570.0	569.5	569.1	569.1	569.7	570.2	570.8	571.4	570.8	570.2	569.7
165°	576.9	576.6	576.3	576.4	577.0	577.6	578.2	578.7	578.2	577.6	577.0
167.5°	582.3	582.0	581.8	581.9	582.5	583.1	583.6	584.2	583.6	583.1	582.5
170°	585.2	585.0	584.8	585.0	585.6	586.1	586.7	587.3	586.7	586.1	585.6
172.5°	587.2	587.0	586.9	587.0	587.6	588.2	588.8	589.3	588.8	588.2	587.6
175°	589.5	589.3	589.1	589.3	590.0	590.6	591.3	592.0	591.3	590.6	590.0
177.5°	590.2	590.1	590.0	590.3	590.8	591.3	591.9	592.4	591.9	591.3	590.8
180°	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7



TEST NUMBER: P331825

CATALOG NUMBER: S122RDIW-S865D435U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1882.5	1878.8	1871.9	1861.3	1854.9	1843.8	1836.3	1840.6	1841.6	1840.6	1839.5
5°	1831.9	1818.0	1798.8	1780.2	1762.9	1744.4	1733.7	1729.1	1719.8	1714.5	1711.9
7.5°	1770.8	1746.8	1719.5	1687.2	1659.7	1630.9	1616.2	1608.9	1589.9	1579.5	1570.5
10°	1725.1	1687.3	1660.1	1617.6	1591.8	1553.9	1528.1	1528.7	1502.8	1488.2	1477.6
12.5°	1674.7	1633.2	1587.9	1549.7	1513.7	1483.3	1452.2	1439.5	1412.1	1398.0	1369.3
15°	1591.1	1542.7	1494.9	1443.1	1406.6	1359.5	1314.4	1259.3	1214.9	1176.4	1165.8
17.5°	1499.8	1439.8	1391.9	1331.1	1268.6	1189.4	1137.1	1105.1	1078.3	1058.0	1042.9
20°	1437.2	1376.1	1325.0	1233.5	1149.2	1095.5	1057.0	1032.4	1004.6	982.7	970.7
22.5°	1371.3	1307.6	1238.0	1135.8	1070.1	1027.0	992.7	964.5	945.6	928.5	917.6
25°	1277.9	1208.2	1093.5	1023.1	970.0	924.9	901.0	883.8	863.9	840.7	830.0
27.5°	1179.2	1068.4	986.0	933.7	883.0	853.7	832.2	806.4	788.6	778.2	767.1
30°	1105.4	994.6	930.2	873.2	837.3	804.8	779.6	765.0	747.8	729.9	722.6
32.5°	1023.1	934.6	872.9	825.4	789.0	761.3	741.4	717.8	705.3	694.3	679.0
35°	920.9	853.9	797.5	759.1	724.6	702.0	678.8	664.8	642.3	633.0	627.0
37.5°	834.4	776.3	734.2	693.6	666.3	641.3	627.1	605.0	595.2	582.3	569.7
40°	785.6	728.5	688.1	654.9	624.4	605.8	587.9	570.0	555.4	549.4	534.1
42.5°	735.7	689.3	648.8	612.4	592.0	572.3	549.7	536.5	521.4	511.7	502.3
45°	666.8	625.7	591.2	561.3	538.8	518.2	503.6	481.7	473.1	453.8	445.9
47.5°	606.3	568.1	535.2	506.8	484.8	471.4	450.0	432.9	419.1	407.3	397.0
50°	563.3	531.5	499.6	474.4	454.5	435.3	413.4	404.7	383.5	377.5	371.6
52.5°	524.0	493.8	464.6	439.9	420.0	401.3	382.0	370.8	356.4	350.5	346.1
55°	469.1	439.9	412.0	390.1	370.2	351.0	339.1	325.1	318.5	313.8	308.5
57.5°	413.9	387.6	366.3	344.1	324.1	308.8	295.0	286.6	279.7	273.6	267.3
60°	378.9	353.6	334.4	313.8	293.3	280.7	270.0	260.1	252.1	242.8	240.2
62.5°	341.7	319.7	302.0	282.0	264.1	252.5	242.4	233.0	223.5	209.9	206.2
65°	290.6	273.4	254.8	238.2	222.3	211.0	196.4	185.8	181.8	180.5	179.8
67.5°	244.4	228.1	212.2	195.2	180.7	170.3	162.8	161.2	158.4	157.6	155.8
70°	213.6	198.4	182.5	166.5	152.6	150.6	148.0	145.3	142.0	140.7	139.3
72.5°	186.0	170.3	154.3	141.6	135.6	133.1	130.4	127.8	125.5	124.2	123.4
75°	142.7	128.1	117.4	112.8	109.5	107.5	103.5	101.5	100.2	98.2	97.5
77.5°	102.7	94.5	89.6	86.7	83.2	81.1	78.8	76.8	75.4	75.0	73.9
80°	78.3	74.3	71.0	67.0	65.7	63.0	62.4	60.4	61.0	59.1	59.1
82.5°	60.8	55.7	52.9	51.1	49.8	47.6	47.0	46.0	46.2	44.7	44.7
85°	31.2	29.9	28.5	27.2	27.2	25.2	25.9	25.2	25.2	23.9	23.2
87.5°	11.0	10.7	9.7	9.9	10.1	9.7	9.8	9.3	9.4	9.5	9.1
90°	4.6	5.5	6.3	7.0	7.8	8.5	9.0	9.5	10.0	10.4	10.8
92.5°	8.3	8.4	8.8	9.2	9.5	9.9	10.2	10.4	10.7	10.9	11.1
95°	15.2	14.0	14.7	15.3	16.0	16.7	17.1	17.6	18.1	18.6	18.8
97.5°	19.8	16.2	17.7	19.2	20.8	22.3	22.7	23.1	23.5	23.8	24.1
100°	23.6	17.9	19.5	21.1	22.7	24.4	25.1	25.9	26.6	27.4	27.9
102.5°	87.2	79.1	65.6	52.1	38.6	25.0	26.0	27.0	28.0	29.0	29.6
105°	141.3	129.8	103.9	77.9	52.0	26.1	27.1	28.2	29.2	30.3	31.0
107.5°	175.3	160.9	129.8	98.7	67.6	36.5	35.4	34.4	33.3	32.2	31.9
110°	197.3	184.6	157.1	129.7	102.2	74.8	65.3	55.8	46.3	36.8	32.2



TEST NUMBER: P331825

CATALOG NUMBER: S122RDIW-S865D435U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	218.3	215.8	209.0	202.2	195.4	188.7	154.0	119.4	84.7	50.1	32.9
115°	252.2	254.2	256.6	259.0	261.3	263.7	219.7	175.8	131.8	87.8	62.4
117.5°	283.8	285.6	287.2	288.8	290.5	292.1	281.5	270.8	260.2	249.5	233.0
120°	304.9	306.5	308.2	309.9	311.6	313.3	314.4	315.6	316.7	317.9	312.0
122.5°	324.3	326.0	327.9	329.7	331.6	333.5	334.2	334.8	335.5	336.2	335.3
125°	352.4	353.9	355.8	357.6	359.4	361.2	361.8	362.5	363.2	363.8	364.3
127.5°	379.4	380.7	382.1	383.4	384.8	386.1	387.1	388.1	389.0	390.0	390.5
130°	396.7	398.0	399.1	400.1	401.2	402.2	403.2	404.3	405.3	406.4	406.9
132.5°	412.9	414.1	415.1	416.2	417.2	418.3	419.2	420.1	420.9	421.8	422.2
135°	436.1	437.2	438.1	439.0	439.8	440.7	441.6	442.6	443.5	444.5	444.8
137.5°	456.7	457.7	458.7	459.7	460.6	461.6	462.5	463.5	464.4	465.3	465.6
140°	470.2	471.1	472.2	473.2	474.2	475.3	476.1	477.0	477.9	478.7	478.9
142.5°	482.2	483.2	484.3	485.5	486.7	487.9	488.7	489.5	490.3	491.1	491.2
145°	498.4	499.2	500.8	502.4	504.0	505.6	506.3	507.0	507.6	508.3	508.4
147.5°	514.2	514.8	516.4	518.0	519.6	521.2	521.7	522.2	522.7	523.2	523.2
150°	523.9	524.3	525.9	527.4	528.9	530.4	531.0	531.6	532.1	532.7	532.8
152.5°	532.8	533.2	534.6	536.1	537.5	539.0	539.5	540.1	540.7	541.3	541.2
155°	545.8	546.0	547.1	548.2	549.4	550.5	551.1	551.7	552.2	552.8	552.7
157.5°	556.9	556.9	557.7	558.5	559.3	560.1	560.7	561.4	562.0	562.7	562.6
160°	563.6	563.6	564.2	564.8	565.3	565.9	566.5	567.0	567.6	568.2	568.1
162.5°	569.1	569.1	569.5	570.0	570.5	571.0	571.7	572.3	573.0	573.6	573.5
165°	576.4	576.3	576.6	576.9	577.2	577.4	578.1	578.8	579.4	580.1	580.1
167.5°	581.9	581.8	582.0	582.3	582.6	582.8	583.5	584.2	584.8	585.5	585.4
170°	585.0	584.8	585.0	585.2	585.4	585.6	586.2	586.9	587.6	588.2	588.1
172.5°	587.0	586.9	587.0	587.2	587.4	587.6	588.3	588.9	589.6	590.3	590.2
175°	589.3	589.1	589.3	589.5	589.6	589.8	590.5	591.2	591.8	592.5	592.4
177.5°	590.3	590.0	590.1	590.2	590.3	590.3	590.9	591.4	591.9	592.5	592.4
180°	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7



TEST NUMBER: P331825

CATALOG NUMBER: S122RDIW-S865D435U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1833.7	1834.7	1833.1	1834.2	1833.1	1834.7	1833.7	1839.5	1840.6	1841.6	1840.6
5°	1708.5	1700.6	1699.2	1697.3	1699.2	1700.6	1708.5	1711.9	1714.5	1719.8	1729.1
7.5°	1559.1	1557.9	1554.6	1550.0	1554.6	1557.9	1559.1	1570.5	1579.5	1589.9	1608.9
10°	1463.0	1459.7	1459.1	1454.4	1459.1	1459.7	1463.0	1477.6	1488.2	1502.8	1528.7
12.5°	1350.5	1329.1	1326.9	1315.3	1326.9	1329.1	1350.5	1369.3	1398.0	1412.1	1439.5
15°	1149.9	1145.9	1132.6	1124.0	1132.6	1145.9	1149.9	1165.8	1176.4	1214.9	1259.3
17.5°	1035.2	1022.2	1018.1	1016.2	1018.1	1022.2	1035.2	1042.9	1058.0	1078.3	1105.1
20°	961.4	949.5	947.5	946.2	947.5	949.5	961.4	970.7	982.7	1004.6	1032.4
22.5°	910.5	898.0	892.8	888.8	892.8	898.0	910.5	917.6	928.5	945.6	964.5
25°	823.4	818.8	816.1	814.8	816.1	818.8	823.4	830.0	840.7	863.9	883.8
27.5°	755.3	745.1	743.1	739.7	743.1	745.1	755.3	767.1	778.2	788.6	806.4
30°	716.6	713.3	708.6	704.6	708.6	713.3	716.6	722.6	729.9	747.8	765.0
32.5°	670.9	668.2	664.0	662.2	664.0	668.2	670.9	679.0	694.3	705.3	717.8
35°	620.4	611.1	607.1	601.1	607.1	611.1	620.4	627.0	633.0	642.3	664.8
37.5°	566.9	562.0	556.4	558.4	556.4	562.0	566.9	569.7	582.3	595.2	605.0
40°	525.5	522.2	520.9	520.2	520.9	522.2	525.5	534.1	549.4	555.4	570.0
42.5°	492.6	483.4	480.0	479.8	480.0	483.4	492.6	502.3	511.7	521.4	536.5
45°	442.6	433.9	428.0	428.6	428.0	433.9	442.6	445.9	453.8	473.1	481.7
47.5°	391.3	391.1	387.4	388.6	387.4	391.1	391.3	397.0	407.3	419.1	432.9
50°	366.9	362.9	360.3	360.9	360.3	362.9	366.9	371.6	377.5	383.5	404.7
52.5°	343.6	340.1	338.0	340.8	338.0	340.1	343.6	346.1	350.5	356.4	370.8
55°	305.2	301.2	300.6	299.9	300.6	301.2	305.2	308.5	313.8	318.5	325.1
57.5°	262.4	259.7	255.7	254.0	255.7	259.7	262.4	267.3	273.6	279.7	286.6
60°	231.6	226.3	219.6	219.0	219.6	226.3	231.6	240.2	242.8	252.1	260.1
62.5°	203.4	202.4	201.0	200.9	201.0	202.4	203.4	206.2	209.9	223.5	233.0
65°	178.5	177.8	178.5	179.1	178.5	177.8	178.5	179.8	180.5	181.8	185.8
67.5°	155.5	154.3	153.1	153.7	153.1	154.3	155.5	155.8	157.6	158.4	161.2
70°	138.0	137.3	136.7	136.7	136.7	137.3	138.0	139.3	140.7	142.0	145.3
72.5°	121.0	120.9	120.2	119.7	120.2	120.9	121.0	123.4	124.2	125.5	127.8
75°	96.9	95.5	95.5	95.5	95.5	95.5	96.9	97.5	98.2	100.2	101.5
77.5°	73.8	73.1	72.5	71.9	72.5	73.1	73.8	73.9	75.0	75.4	76.8
80°	58.4	57.7	57.1	57.1	57.1	57.7	58.4	59.1	59.1	61.0	60.4
82.5°	44.6	43.9	43.8	43.3	43.8	43.9	44.6	44.7	44.7	46.2	46.0
85°	23.9	24.5	23.9	25.2	23.9	24.5	23.9	23.2	23.9	25.2	25.2
87.5°	9.1	8.6	9.2	8.7	9.2	8.6	9.1	9.1	9.5	9.4	9.3
90°	11.0	11.2	11.4	11.5	11.4	11.2	11.0	10.8	10.4	10.0	9.5
92.5°	11.2	11.3	11.4	11.5	11.4	11.3	11.2	11.1	10.9	10.7	10.4
95°	18.7	18.6	18.5	18.4	18.5	18.6	18.7	18.8	18.6	18.1	17.6
97.5°	24.2	24.3	24.4	24.5	24.4	24.3	24.2	24.1	23.8	23.5	23.1
100°	28.1	28.3	28.4	28.6	28.4	28.3	28.1	27.9	27.4	26.6	25.9
102.5°	29.9	30.2	30.4	30.7	30.4	30.2	29.9	29.6	29.0	28.0	27.0
105°	31.3	31.7	32.1	32.5	32.1	31.7	31.3	31.0	30.3	29.2	28.2
107.5°	32.3	32.7	33.0	33.4	33.0	32.7	32.3	31.9	32.2	33.3	34.4
110°	32.6	33.0	33.4	33.8	33.4	33.0	32.6	32.2	36.8	46.3	55.8



TEST NUMBER: P331825

CATALOG NUMBER: S122RDIW-S865D435U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	33.2	33.5	33.8	34.1	33.8	33.5	33.2	32.9	50.1	84.7	119.4
115°	55.6	48.7	41.9	35.0	41.9	48.7	55.6	62.4	87.8	131.8	175.8
117.5°	210.5	188.0	165.6	143.1	165.6	188.0	210.5	233.0	249.5	260.2	270.8
120°	299.2	286.4	273.5	260.7	273.5	286.4	299.2	312.0	317.9	316.7	315.6
122.5°	332.8	330.3	327.8	325.3	327.8	330.3	332.8	335.3	336.2	335.5	334.8
125°	364.6	364.9	365.2	365.4	365.2	364.9	364.6	364.3	363.8	363.2	362.5
127.5°	390.6	390.6	390.7	390.7	390.7	390.6	390.6	390.5	390.0	389.0	388.1
130°	406.8	406.7	406.6	406.5	406.6	406.7	406.8	406.9	406.4	405.3	404.3
132.5°	422.1	422.0	422.0	421.9	422.0	422.0	422.1	422.2	421.8	420.9	420.1
135°	444.7	444.5	444.3	444.1	444.3	444.5	444.7	444.8	444.5	443.5	442.6
137.5°	465.3	465.0	464.7	464.3	464.7	465.0	465.3	465.6	465.3	464.4	463.5
140°	478.4	477.9	477.5	477.0	477.5	477.9	478.4	478.9	478.7	477.9	477.0
142.5°	490.7	490.3	489.8	489.3	489.8	490.3	490.7	491.2	491.1	490.3	489.5
145°	507.9	507.4	507.0	506.5	507.0	507.4	507.9	508.4	508.3	507.6	507.0
147.5°	522.8	522.4	522.0	521.6	522.0	522.4	522.8	523.2	523.2	522.7	522.2
150°	532.3	531.8	531.3	530.9	531.3	531.8	532.3	532.8	532.7	532.1	531.6
152.5°	540.6	540.0	539.3	538.7	539.3	540.0	540.6	541.2	541.3	540.7	540.1
155°	551.9	551.2	550.4	549.7	550.4	551.2	551.9	552.7	552.8	552.2	551.7
157.5°	561.9	561.1	560.4	559.7	560.4	561.1	561.9	562.6	562.7	562.0	561.4
160°	567.5	566.8	566.1	565.5	566.1	566.8	567.5	568.1	568.2	567.6	567.0
162.5°	572.7	571.9	571.1	570.3	571.1	571.9	572.7	573.5	573.6	573.0	572.3
165°	579.4	578.8	578.1	577.4	578.1	578.8	579.4	580.1	580.1	579.4	578.8
167.5°	584.5	583.7	582.8	582.0	582.8	583.7	584.5	585.4	585.5	584.8	584.2
170°	587.3	586.4	585.6	584.7	585.6	586.4	587.3	588.1	588.2	587.6	586.9
172.5°	589.3	588.5	587.6	586.8	587.6	588.5	589.3	590.2	590.3	589.6	588.9
175°	591.4	590.5	589.5	588.6	589.5	590.5	591.4	592.4	592.5	591.8	591.2
177.5°	591.7	591.0	590.3	589.7	590.3	591.0	591.7	592.4	592.5	591.9	591.4
180°	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7



TEST NUMBER: P331825

CATALOG NUMBER: S122RDIW-S865D435U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1836.3	1843.8	1854.9	1861.3	1871.9	1878.8	1882.5	1889.4	1893.1	1906.4	1920.2
5°	1733.7	1744.4	1762.9	1780.2	1798.8	1818.0	1831.9	1847.9	1862.5	1887.7	1914.2
7.5°	1616.2	1630.9	1659.7	1687.2	1719.5	1746.8	1770.8	1798.0	1822.3	1858.4	1896.0
10°	1528.1	1553.9	1591.8	1617.6	1660.1	1687.3	1725.1	1755.0	1788.8	1836.6	1879.1
12.5°	1452.2	1483.3	1513.7	1549.7	1587.9	1633.2	1674.7	1713.0	1753.3	1802.6	1852.5
15°	1314.4	1359.5	1406.6	1443.1	1494.9	1542.7	1591.1	1642.8	1691.9	1751.0	1816.0
17.5°	1137.1	1189.4	1268.6	1331.1	1391.9	1439.8	1499.8	1562.4	1620.3	1691.5	1763.9
20°	1057.0	1095.5	1149.2	1233.5	1325.0	1376.1	1437.2	1506.2	1572.5	1650.1	1727.8
22.5°	992.7	1027.0	1070.1	1135.8	1238.0	1307.6	1371.3	1441.4	1518.4	1597.6	1683.7
25°	901.0	924.9	970.0	1023.1	1093.5	1208.2	1277.9	1348.2	1431.9	1516.8	1615.0
27.5°	832.2	853.7	883.0	933.7	986.0	1068.4	1179.2	1255.9	1339.2	1434.8	1536.7
30°	779.6	804.8	837.3	873.2	930.2	994.6	1105.4	1194.3	1276.6	1374.8	1483.6
32.5°	741.4	761.3	789.0	825.4	872.9	934.6	1023.1	1131.1	1211.3	1314.8	1428.4
35°	678.8	702.0	724.6	759.1	797.5	853.9	920.9	1036.4	1116.0	1218.2	1332.3
37.5°	627.1	641.3	666.3	693.6	734.2	776.3	834.4	937.9	1024.1	1124.4	1241.2
40°	587.9	605.8	624.4	654.9	688.1	728.5	785.6	862.6	961.4	1059.6	1173.7
42.5°	549.7	572.3	592.0	612.4	648.8	689.3	735.7	801.0	902.0	994.9	1105.8
45°	503.6	518.2	538.8	561.3	591.2	625.7	666.8	723.9	820.8	901.0	1005.2
47.5°	450.0	471.4	484.8	506.8	535.2	568.1	606.3	655.7	734.1	809.3	906.0
50°	413.4	435.3	454.5	474.4	499.6	531.5	563.3	611.1	674.1	753.1	843.3
52.5°	382.0	401.3	420.0	439.9	464.6	493.8	524.0	566.0	620.0	692.6	780.2
55°	339.1	351.0	370.2	390.1	412.0	439.9	469.1	504.3	550.7	611.8	682.8
57.5°	295.0	308.8	324.1	344.1	366.3	387.6	413.9	445.7	482.4	537.6	598.4
60°	270.0	280.7	293.3	313.8	334.4	353.6	378.9	405.4	439.9	487.7	539.4
62.5°	242.4	252.5	264.1	282.0	302.0	319.7	341.7	369.8	399.0	442.6	487.9
65°	196.4	211.0	222.3	238.2	254.8	273.4	290.6	313.2	339.1	373.6	414.0
67.5°	162.8	170.3	180.7	195.2	212.2	228.1	244.4	262.1	284.5	311.2	343.3
70°	148.0	150.6	152.6	166.5	182.5	198.4	213.6	230.2	249.5	271.4	299.2
72.5°	130.4	133.1	135.6	141.6	154.3	170.3	186.0	198.4	216.6	234.7	257.3
75°	103.5	107.5	109.5	112.8	117.4	128.1	142.7	154.6	165.2	179.1	197.1
77.5°	78.8	81.1	83.2	86.7	89.6	94.5	102.7	113.5	123.4	131.5	143.8
80°	62.4	63.0	65.7	67.0	71.0	74.3	78.3	86.9	96.9	100.2	108.8
82.5°	47.0	47.6	49.8	51.1	52.9	55.7	60.8	63.0	70.9	75.2	80.7
85°	25.9	25.2	27.2	27.2	28.5	29.9	31.2	34.5	36.5	41.8	43.1
87.5°	9.8	9.7	10.1	9.9	9.7	10.7	11.0	11.3	12.2	13.6	15.5
90°	9.0	8.5	7.8	7.0	6.3	5.5	4.6	3.6	2.5	1.5	0.4
92.5°	10.2	9.9	9.5	9.2	8.8	8.4	8.3	8.3	8.4	8.5	8.6
95°	17.1	16.7	16.0	15.3	14.7	14.0	15.2	18.4	21.5	24.6	27.8
97.5°	22.7	22.3	20.8	19.2	17.7	16.2	19.8	28.6	37.5	46.3	55.1
100°	25.1	24.4	22.7	21.1	19.5	17.9	23.6	36.6	49.6	62.6	75.7
102.5°	26.0	25.0	38.6	52.1	65.6	79.1	87.2	90.0	92.7	95.5	98.2
105°	27.1	26.1	52.0	77.9	103.9	129.8	141.3	138.5	135.6	132.8	129.9
107.5°	35.4	36.5	67.6	98.7	129.8	160.9	175.3	173.0	170.7	168.4	166.1
110°	65.3	74.8	102.2	129.7	157.1	184.6	197.3	195.3	193.3	191.3	189.3



TEST NUMBER: P331825

CATALOG NUMBER: S122RDIW-S865D435U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	154.0	188.7	195.4	202.2	209.0	215.8	218.3	216.5	214.8	213.0	211.2
115°	219.7	263.7	261.3	259.0	256.6	254.2	252.2	250.6	249.0	247.4	245.8
117.5°	281.5	292.1	290.5	288.8	287.2	285.6	283.8	282.0	280.2	278.4	276.6
120°	314.4	313.3	311.6	309.9	308.2	306.5	304.9	303.5	302.0	300.6	299.2
122.5°	334.2	333.5	331.6	329.7	327.9	326.0	324.3	322.8	321.3	319.8	318.3
125°	361.8	361.2	359.4	357.6	355.8	353.9	352.4	351.2	350.0	348.7	347.5
127.5°	387.1	386.1	384.8	383.4	382.1	380.7	379.4	378.0	376.6	375.3	373.9
130°	403.2	402.2	401.2	400.1	399.1	398.0	396.7	395.2	393.7	392.2	390.7
132.5°	419.2	418.3	417.2	416.2	415.1	414.1	412.9	411.6	410.3	409.0	407.8
135°	441.6	440.7	439.8	439.0	438.1	437.2	436.1	434.5	433.0	431.5	430.0
137.5°	462.5	461.6	460.6	459.7	458.7	457.7	456.7	455.7	454.6	453.5	452.5
140°	476.1	475.3	474.2	473.2	472.2	471.1	470.2	469.4	468.7	467.9	467.2
142.5°	488.7	487.9	486.7	485.5	484.3	483.2	482.2	481.5	480.8	480.2	479.5
145°	506.3	505.6	504.0	502.4	500.8	499.2	498.4	498.5	498.6	498.7	498.8
147.5°	521.7	521.2	519.6	518.0	516.4	514.8	514.2	514.6	514.9	515.3	515.6
150°	531.0	530.4	528.9	527.4	525.9	524.3	523.9	524.6	525.2	525.9	526.6
152.5°	539.5	539.0	537.5	536.1	534.6	533.2	532.8	533.6	534.3	535.1	535.8
155°	551.1	550.5	549.4	548.2	547.1	546.0	545.8	546.7	547.5	548.4	549.2
157.5°	560.7	560.1	559.3	558.5	557.7	556.9	556.9	557.6	558.3	559.0	559.7
160°	566.5	565.9	565.3	564.8	564.2	563.6	563.6	564.2	564.8	565.3	565.9
162.5°	571.7	571.0	570.5	570.0	569.5	569.1	569.1	569.7	570.2	570.8	571.4
165°	578.1	577.4	577.2	576.9	576.6	576.3	576.4	577.0	577.6	578.2	578.7
167.5°	583.5	582.8	582.6	582.3	582.0	581.8	581.9	582.5	583.1	583.6	584.2
170°	586.2	585.6	585.4	585.2	585.0	584.8	585.0	585.6	586.1	586.7	587.3
172.5°	588.3	587.6	587.4	587.2	587.0	586.9	587.0	587.6	588.2	588.8	589.3
175°	590.5	589.8	589.6	589.5	589.3	589.1	589.3	590.0	590.6	591.3	592.0
177.5°	590.9	590.3	590.3	590.2	590.1	590.0	590.3	590.8	591.3	591.9	592.4
180°	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7



TEST NUMBER: P331825

CATALOG NUMBER: S122RDIW-S865D435U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1920.7	1922.3	1932.9	1937.7	1947.3	1951.0	1955.2	1954.2	1954.2	1956.3	1971.2
5°	1924.8	1938.1	1958.0	1977.3	1995.8	2011.8	2022.4	2033.0	2037.0	2056.2	2073.5
7.5°	1917.9	1942.4	1975.3	2004.6	2039.8	2067.2	2090.1	2110.6	2124.7	2152.7	2181.4
10°	1908.9	1943.4	1980.6	2018.4	2066.8	2103.3	2140.5	2169.0	2178.3	2220.1	2244.0
12.5°	1890.9	1937.0	1984.3	2033.3	2080.6	2130.9	2171.8	2200.3	2233.0	2270.5	2314.6
15°	1863.8	1916.9	1978.6	2041.6	2109.3	2170.3	2214.1	2263.9	2299.7	2340.9	2379.3
17.5°	1824.9	1893.3	1971.7	2044.7	2123.0	2188.5	2248.8	2296.5	2321.7	2345.2	2350.9
20°	1794.1	1867.8	1960.0	2046.3	2124.6	2200.2	2259.9	2299.7	2306.4	2307.0	2271.9
22.5°	1760.7	1843.9	1940.4	2028.7	2122.4	2206.6	2253.0	2270.0	2243.7	2198.7	2130.7
25°	1699.2	1795.5	1907.6	2008.4	2110.6	2190.2	2206.2	2176.3	2084.1	1987.2	1864.5
27.5°	1632.6	1740.8	1861.0	1973.1	2082.0	2131.3	2097.0	1989.3	1823.2	1678.8	1503.8
30°	1583.8	1705.2	1823.3	1948.7	2049.6	2070.8	1991.9	1833.3	1639.5	1421.9	1247.4
32.5°	1528.1	1655.3	1785.1	1914.8	1999.2	1978.4	1848.0	1652.8	1425.6	1211.7	1046.8
35°	1448.4	1579.8	1719.8	1849.9	1903.6	1814.0	1619.0	1364.8	1132.6	932.9	819.4
37.5°	1356.5	1499.5	1645.1	1764.5	1760.7	1611.4	1345.7	1083.4	888.2	770.1	689.3
40°	1291.2	1435.8	1593.1	1693.9	1650.8	1456.4	1168.4	920.9	778.3	684.1	625.0
42.5°	1228.6	1373.7	1529.9	1610.1	1535.1	1296.1	1009.2	815.3	697.6	624.1	576.2
45°	1122.0	1275.3	1419.9	1464.4	1330.3	1066.9	816.1	675.5	597.2	542.7	509.6
47.5°	1017.8	1168.6	1300.6	1301.4	1120.1	865.2	688.5	584.6	517.7	475.6	451.5
50°	954.1	1097.4	1208.2	1191.0	985.3	769.7	615.7	526.2	470.4	437.9	412.7
52.5°	882.5	1021.5	1117.5	1068.4	871.2	677.3	550.4	475.2	429.0	400.8	378.2
55°	778.3	901.7	969.4	895.1	710.6	563.3	465.1	406.1	371.6	347.7	328.4
57.5°	676.0	777.8	820.4	733.8	585.3	467.1	393.5	349.1	314.9	297.8	287.8
60°	611.8	698.7	728.5	633.0	508.9	408.7	348.3	307.2	282.0	270.7	260.8
62.5°	548.6	619.6	631.9	544.3	443.6	357.8	305.9	271.1	254.4	243.6	234.2
65°	455.2	506.3	500.3	430.0	351.0	284.0	246.2	224.9	212.3	197.1	180.5
67.5°	374.7	405.9	387.1	334.4	267.9	220.7	196.0	179.9	164.3	149.8	146.0
70°	323.8	341.7	321.8	273.4	219.6	185.1	165.2	146.0	136.7	133.4	127.4
72.5°	275.0	281.2	259.7	218.2	178.7	153.3	133.9	123.1	118.1	115.3	111.5
75°	206.4	201.7	183.1	150.6	124.1	106.8	100.9	96.9	93.6	90.9	88.9
77.5°	144.9	138.1	121.6	100.3	86.4	78.2	74.6	72.5	70.9	69.5	67.5
80°	108.8	104.2	87.6	71.7	65.7	61.7	59.7	57.1	57.1	55.7	53.7
82.5°	79.6	74.4	60.0	52.5	49.2	46.8	45.4	43.8	43.3	43.5	42.1
85°	41.8	33.8	29.9	28.5	26.5	25.2	25.9	24.5	24.5	24.5	23.9
87.5°	13.0	10.6	10.3	9.9	10.7	10.8	10.4	10.6	11.3	10.8	11.5
90°	1.5	2.5	3.6	4.6	5.5	6.3	7.0	7.8	8.5	9.0	9.5
92.5°	8.5	8.4	8.3	8.3	8.4	8.8	9.2	9.5	9.9	10.2	10.4
95°	24.6	21.5	18.4	15.2	14.0	14.7	15.3	16.0	16.7	17.1	17.6
97.5°	46.3	37.5	28.6	19.8	16.2	17.7	19.2	20.8	22.3	22.7	23.1
100°	62.6	49.6	36.6	23.6	17.9	19.5	21.1	22.7	24.4	25.1	25.9
102.5°	95.5	92.7	90.0	87.2	79.1	65.6	52.1	38.6	25.0	26.0	27.0
105°	132.8	135.6	138.5	141.3	129.8	103.9	77.9	52.0	26.1	27.1	28.2
107.5°	168.4	170.7	173.0	175.3	160.9	129.8	98.7	67.6	36.5	35.4	34.4
110°	191.3	193.3	195.3	197.3	184.6	157.1	129.7	102.2	74.8	65.3	55.8





TEST NUMBER: P331825

CATALOG NUMBER: S122RDIW-S865D435U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	213.0	214.8	216.5	218.3	215.8	209.0	202.2	195.4	188.7	154.0	119.4
115°	247.4	249.0	250.6	252.2	254.2	256.6	259.0	261.3	263.7	219.7	175.8
117.5°	278.4	280.2	282.0	283.8	285.6	287.2	288.8	290.5	292.1	281.5	270.8
120°	300.6	302.0	303.5	304.9	306.5	308.2	309.9	311.6	313.3	314.4	315.6
122.5°	319.8	321.3	322.8	324.3	326.0	327.9	329.7	331.6	333.5	334.2	334.8
125°	348.7	350.0	351.2	352.4	353.9	355.8	357.6	359.4	361.2	361.8	362.5
127.5°	375.3	376.6	378.0	379.4	380.7	382.1	383.4	384.8	386.1	387.1	388.1
130°	392.2	393.7	395.2	396.7	398.0	399.1	400.1	401.2	402.2	403.2	404.3
132.5°	409.0	410.3	411.6	412.9	414.1	415.1	416.2	417.2	418.3	419.2	420.1
135°	431.5	433.0	434.5	436.1	437.2	438.1	439.0	439.8	440.7	441.6	442.6
137.5°	453.5	454.6	455.7	456.7	457.7	458.7	459.7	460.6	461.6	462.5	463.5
140°	467.9	468.7	469.4	470.2	471.1	472.2	473.2	474.2	475.3	476.1	477.0
142.5°	480.2	480.8	481.5	482.2	483.2	484.3	485.5	486.7	487.9	488.7	489.5
145°	498.7	498.6	498.5	498.4	499.2	500.8	502.4	504.0	505.6	506.3	507.0
147.5°	515.3	514.9	514.6	514.2	514.8	516.4	518.0	519.6	521.2	521.7	522.2
150°	525.9	525.2	524.6	523.9	524.3	525.9	527.4	528.9	530.4	531.0	531.6
152.5°	535.1	534.3	533.6	532.8	533.2	534.6	536.1	537.5	539.0	539.5	540.1
155°	548.4	547.5	546.7	545.8	546.0	547.1	548.2	549.4	550.5	551.1	551.7
157.5°	559.0	558.3	557.6	556.9	556.9	557.7	558.5	559.3	560.1	560.7	561.4
160°	565.3	564.8	564.2	563.6	563.6	564.2	564.8	565.3	565.9	566.5	567.0
162.5°	570.8	570.2	569.7	569.1	569.1	569.5	570.0	570.5	571.0	571.7	572.3
165°	578.2	577.6	577.0	576.4	576.3	576.6	576.9	577.2	577.4	578.1	578.8
167.5°	583.6	583.1	582.5	581.9	581.8	582.0	582.3	582.6	582.8	583.5	584.2
170°	586.7	586.1	585.6	585.0	584.8	585.0	585.2	585.4	585.6	586.2	586.9
172.5°	588.8	588.2	587.6	587.0	586.9	587.0	587.2	587.4	587.6	588.3	588.9
175°	591.3	590.6	590.0	589.3	589.1	589.3	589.5	589.6	589.8	590.5	591.2
177.5°	591.9	591.3	590.8	590.3	590.0	590.1	590.2	590.3	590.3	590.9	591.4
180°	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7



TEST NUMBER: P331825

CATALOG NUMBER: S122RDIW-S865D435U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1976.5	1983.4	1986.5	1986.5	1990.3	1988.7	1987.1
5°	2090.1	2102.7	2105.3	2117.3	2125.9	2123.2	2124.6
7.5°	2203.0	2223.3	2243.3	2252.5	2253.9	2259.2	2261.2
10°	2272.5	2289.1	2320.3	2315.6	2338.9	2352.1	2330.2
12.5°	2339.4	2361.8	2383.5	2389.4	2402.6	2406.8	2398.2
15°	2399.9	2411.9	2413.2	2409.9	2413.8	2410.5	2397.9
17.5°	2343.4	2324.0	2284.7	2266.1	2251.4	2229.7	2220.9
20°	2250.0	2192.9	2126.5	2100.0	2068.8	2007.8	2022.4
22.5°	2048.3	1983.2	1916.9	1839.4	1802.4	1744.5	1741.0
25°	1734.4	1622.3	1498.9	1412.6	1362.2	1304.5	1279.2
27.5°	1348.5	1207.3	1106.2	1055.0	1008.4	962.6	960.8
30°	1094.8	988.6	910.3	866.5	838.0	818.8	822.8
32.5°	922.8	850.1	797.3	760.9	739.8	725.3	725.1
35°	754.4	704.6	670.8	655.5	640.3	629.7	630.3
37.5°	645.6	615.7	596.9	580.0	570.5	565.3	562.4
40°	589.9	565.3	550.7	540.8	532.8	525.5	524.2
42.5°	545.8	525.5	510.9	503.1	495.6	490.5	489.1
45°	484.4	467.8	454.5	445.9	442.6	437.9	437.9
47.5°	430.9	414.6	404.2	398.8	393.1	390.0	389.9
50°	394.8	382.2	372.9	369.6	364.9	362.9	362.3
52.5°	362.4	353.0	346.4	344.1	342.1	339.6	340.0
55°	318.5	313.2	310.5	308.5	305.2	301.2	303.9
57.5°	281.5	276.9	269.8	263.5	260.5	257.7	258.8
60°	255.5	246.2	236.9	229.6	227.6	221.6	221.6
62.5°	222.5	209.5	198.1	194.0	192.0	189.2	188.7
65°	171.2	165.9	163.2	160.6	159.2	159.2	157.9
67.5°	141.9	139.7	136.8	136.2	134.8	134.4	134.0
70°	125.4	122.7	121.4	120.8	119.4	120.1	118.1
72.5°	109.5	107.4	107.1	105.4	104.6	104.7	103.2
75°	86.3	86.3	85.6	84.9	83.6	82.9	83.6
77.5°	66.4	66.5	65.3	65.2	65.0	65.2	64.5
80°	53.1	53.7	53.1	52.4	51.8	52.4	51.8
82.5°	41.9	41.0	40.9	40.7	40.6	40.2	40.1
85°	23.9	24.5	23.9	23.2	23.2	23.2	23.9
87.5°	11.0	11.1	11.2	11.2	11.3	11.3	10.8
90°	10.0	10.4	10.8	11.0	11.2	11.4	11.5
92.5°	10.7	10.9	11.1	11.2	11.3	11.4	11.5
95°	18.1	18.6	18.8	18.7	18.6	18.5	18.4
97.5°	23.5	23.8	24.1	24.2	24.3	24.4	24.5
100°	26.6	27.4	27.9	28.1	28.3	28.4	28.6
102.5°	28.0	29.0	29.6	29.9	30.2	30.4	30.7
105°	29.2	30.3	31.0	31.3	31.7	32.1	32.5
107.5°	33.3	32.2	31.9	32.3	32.7	33.0	33.4
110°	46.3	36.8	32.2	32.6	33.0	33.4	33.8



TEST NUMBER: P331825

CATALOG NUMBER: S122RDIW-S865D435U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	84.7	50.1	32.9	33.2	33.5	33.8	34.1
115°	131.8	87.8	62.4	55.6	48.7	41.9	35.0
117.5°	260.2	249.5	233.0	210.5	188.0	165.6	143.1
120°	316.7	317.9	312.0	299.2	286.4	273.5	260.7
122.5°	335.5	336.2	335.3	332.8	330.3	327.8	325.3
125°	363.2	363.8	364.3	364.6	364.9	365.2	365.4
127.5°	389.0	390.0	390.5	390.6	390.6	390.7	390.7
130°	405.3	406.4	406.9	406.8	406.7	406.6	406.5
132.5°	420.9	421.8	422.2	422.1	422.0	422.0	421.9
135°	443.5	444.5	444.8	444.7	444.5	444.3	444.1
137.5°	464.4	465.3	465.6	465.3	465.0	464.7	464.3
140°	477.9	478.7	478.9	478.4	477.9	477.5	477.0
142.5°	490.3	491.1	491.2	490.7	490.3	489.8	489.3
145°	507.6	508.3	508.4	507.9	507.4	507.0	506.5
147.5°	522.7	523.2	523.2	522.8	522.4	522.0	521.6
150°	532.1	532.7	532.8	532.3	531.8	531.3	530.9
152.5°	540.7	541.3	541.2	540.6	540.0	539.3	538.7
155°	552.2	552.8	552.7	551.9	551.2	550.4	549.7
157.5°	562.0	562.7	562.6	561.9	561.1	560.4	559.7
160°	567.6	568.2	568.1	567.5	566.8	566.1	565.5
162.5°	573.0	573.6	573.5	572.7	571.9	571.1	570.3
165°	579.4	580.1	580.1	579.4	578.8	578.1	577.4
167.5°	584.8	585.5	585.4	584.5	583.7	582.8	582.0
170°	587.6	588.2	588.1	587.3	586.4	585.6	584.7
172.5°	589.6	590.3	590.2	589.3	588.5	587.6	586.8
175°	591.8	592.5	592.4	591.4	590.5	589.5	588.6
177.5°	591.9	592.5	592.4	591.7	591.0	590.3	589.7
180°	590.7	590.7	590.7	590.7	590.7	590.7	590.7

(END OF REPORT)