

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: P331711

Luminaire Tested: **SA2XXRDIP-C865D530U835-4F0-1E-UDD-A**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331711  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXRDIP-C865D530U835-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 530 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

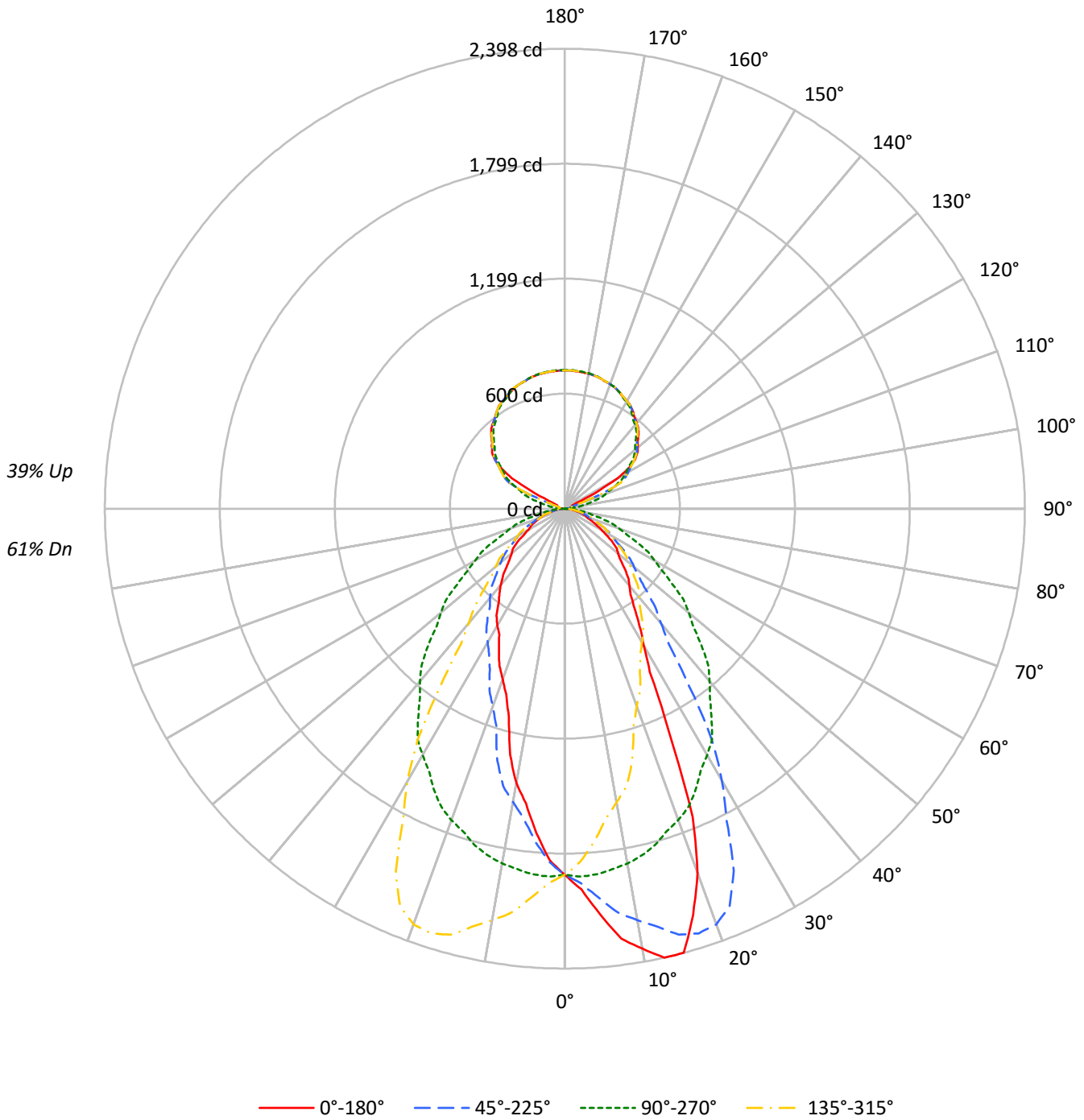
Lumens per Lamp: N/A  
Luminaire Lumens: 5415.5 lumens  
Efficiency: N/A  
Efficacy: 111.0 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 48.8  
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	50	30	10	0	
RCR																						
0	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	66	66	66	61	
1	101	97	94	90	95	91	88	85	80	78	75	70	68	66	60	59	58	58	58	58	53	
2	93	86	80	75	87	81	76	72	71	67	64	62	59	57	54	52	50	50	50	50	46	
3	86	77	70	64	80	72	66	61	64	59	55	56	52	49	49	46	44	44	44	44	40	
4	79	69	61	55	74	65	58	53	57	52	48	51	47	43	44	41	39	39	39	39	36	
5	73	62	54	48	68	58	51	46	52	47	42	46	42	38	41	37	35	35	35	35	32	
6	68	56	48	43	63	53	46	41	47	42	38	42	38	34	37	34	31	31	31	31	28	
7	63	51	43	38	59	48	41	37	43	38	34	39	34	31	34	31	28	28	28	28	26	
8	59	47	39	34	55	44	38	33	40	34	30	36	31	28	32	28	26	26	26	26	23	
9	55	43	36	31	52	41	34	30	37	31	28	33	29	26	30	26	23	23	23	23	21	
10	51	40	33	28	48	38	31	27	34	29	25	31	27	23	28	24	22	22	22	22	20	

**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	3.3
10°-20°	504.4	9.3
20°-30°	650.0	12.0
30°-40°	617.7	11.4
40°-50°	529.1	9.8
50°-60°	402.9	7.4
60°-70°	254.7	4.7
70°-80°	127.2	2.3
80°-90°	34.9	0.6
90°-100°	24.1	0.4
100°-110°	88.2	1.6
110°-120°	235.8	4.4
120°-130°	389.3	7.2
130°-140°	414.0	7.6
140°-150°	384.8	7.1
150°-160°	309.4	5.7
160°-170°	199.4	3.7
170°-180°	68.6	1.3
0°-30°	1335.4	24.7
0°-40°	1953.1	36.1
0°-60°	2885.1	53.3
0°-90°	3302.0	61.0
90°-120°	348.1	6.4
90°-150°	1536.2	28.4
90°-180°	2114.0	39.0
0°-180°	5415.5	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°	14	0	14	0	14	7
95°	22	34	22	34	22	21
105°	40	159	40	159	40	41
115°	43	300	43	300	43	107
125°	446	424	446	424	446	386
135°	542	525	542	525	542	418
145°	618	609	618	609	618	387
155°	671	671	671	671	671	310
165°	705	707	705	707	705	199
175°	719	723	719	723	719	68
180°	721	721	721	721	721	



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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°	11.3	11.8	11.7	11.7	11.7	11.6	11.5	11.9	11.2	11.6	10.9
90°	14.1	13.9	13.6	13.4	13.2	12.8	12.2	11.6	11.0	10.4	9.5
92.5°	14.1	14.0	13.8	13.7	13.5	13.3	13.0	12.7	12.4	12.1	11.6
95°	22.4	22.6	22.7	22.8	22.9	22.7	22.1	21.5	20.9	20.4	19.5
97.5°	30.0	29.8	29.7	29.5	29.4	29.1	28.6	28.2	27.7	27.2	25.4
100°	35.0	34.7	34.5	34.3	34.0	33.5	32.5	31.6	30.7	29.7	27.8
102.5°	37.5	37.1	36.8	36.5	36.2	35.4	34.2	33.0	31.8	30.6	27.1
105°	39.7	39.2	38.7	38.3	37.8	36.9	35.7	34.4	33.1	31.8	27.5
107.5°	40.8	40.3	39.9	39.4	39.0	39.4	40.7	42.0	43.3	44.6	42.5
110°	41.2	40.8	40.3	39.8	39.4	44.9	56.5	68.1	79.7	91.3	124.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	41.6	41.3	40.9	40.5	40.2	61.1	103.4	145.7	188.0	230.4	238.6
115°	42.8	51.1	59.5	67.8	76.2	107.2	160.9	214.6	268.3	322.0	319.1
117.5°	174.7	202.2	229.6	257.0	284.5	304.7	317.7	330.7	343.7	356.6	354.7
120°	318.3	334.0	349.7	365.3	381.0	388.1	386.7	385.3	383.9	382.5	380.4
122.5°	397.2	400.3	403.3	406.4	409.4	410.5	409.7	408.8	408.0	407.2	404.9
125°	446.2	445.9	445.5	445.2	444.8	444.2	443.4	442.6	441.8	441.0	438.8
127.5°	477.1	477.0	477.0	476.9	476.8	476.2	475.0	473.8	472.6	471.5	469.8
130°	496.3	496.4	496.5	496.6	496.8	496.2	494.9	493.6	492.4	491.1	489.8
132.5°	515.1	515.2	515.3	515.4	515.5	515.1	514.0	512.9	511.8	510.7	509.4
135°	542.2	542.5	542.7	542.9	543.2	542.7	541.5	540.4	539.2	538.0	537.0
137.5°	567.0	567.4	567.7	568.1	568.5	568.2	567.0	565.9	564.8	563.6	562.4
140°	582.4	583.0	583.6	584.1	584.7	584.5	583.4	582.4	581.4	580.3	579.0
142.5°	597.4	598.0	598.6	599.2	599.8	599.6	598.6	597.7	596.7	595.8	594.3
145°	618.4	619.0	619.6	620.2	620.7	620.6	619.8	619.0	618.2	617.4	615.4
147.5°	636.9	637.4	637.9	638.4	638.8	638.8	638.2	637.6	637.0	636.4	634.4
150°	648.2	648.7	649.3	649.9	650.5	650.4	649.7	649.0	648.3	647.6	645.8
152.5°	657.8	658.5	659.3	660.1	660.8	660.9	660.2	659.5	658.8	658.1	656.3
155°	671.1	672.1	673.0	673.9	674.8	675.0	674.3	673.6	672.9	672.2	670.8
157.5°	683.3	684.2	685.1	686.0	687.0	687.0	686.2	685.4	684.6	683.9	682.9
160°	690.4	691.2	692.1	692.9	693.7	693.7	693.0	692.3	691.7	691.0	690.3
162.5°	696.3	697.3	698.3	699.3	700.3	700.4	699.6	698.8	698.0	697.2	696.6
165°	705.0	705.9	706.7	707.5	708.3	708.3	707.5	706.7	705.9	705.0	704.7
167.5°	710.6	711.6	712.7	713.7	714.8	714.9	714.1	713.2	712.4	711.6	711.3
170°	713.9	715.0	716.0	717.0	718.1	718.2	717.4	716.6	715.8	715.0	714.7
172.5°	716.4	717.5	718.5	719.6	720.6	720.7	719.9	719.1	718.3	717.5	717.2
175°	718.6	719.8	720.9	722.1	723.3	723.4	722.6	721.8	721.0	720.2	719.9
177.5°	720.0	720.8	721.6	722.5	723.3	723.4	722.8	722.1	721.5	720.8	720.7
180°	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2



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**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°	10.7	11.1	10.9	10.1	10.4	10.7	13.1	15.5	13.6	12.3	11.5
90°	8.6	7.7	6.7	5.6	4.3	3.1	1.8	0.5	1.8	3.1	4.3
92.5°	11.2	10.7	10.3	10.1	10.2	10.3	10.4	10.5	10.4	10.3	10.2
95°	18.7	17.9	17.1	18.6	22.4	26.3	30.1	33.9	30.1	26.3	22.4
97.5°	23.5	21.6	19.7	24.2	35.0	45.8	56.5	67.3	56.5	45.8	35.0
100°	25.8	23.8	21.9	28.8	44.7	60.6	76.5	92.4	76.5	60.6	44.7
102.5°	63.6	80.1	96.5	106.5	109.8	113.2	116.6	119.9	116.6	113.2	109.8
105°	95.2	126.8	158.5	172.6	169.1	165.6	162.1	158.6	162.1	165.6	169.1
107.5°	120.5	158.5	196.4	214.0	211.2	208.4	205.6	202.8	205.6	208.4	211.2
110°	158.4	191.9	225.4	240.9	238.5	236.1	233.6	231.2	233.6	236.1	238.5





TEST NUMBER: P331711

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	246.9	255.2	263.5	266.5	264.4	262.2	260.1	257.9	260.1	262.2	264.4
115°	316.2	313.3	310.4	308.0	306.0	304.0	302.0	300.1	302.0	304.0	306.0
117.5°	352.7	350.7	348.7	346.6	344.4	342.2	340.0	337.8	340.0	342.2	344.4
120°	378.4	376.3	374.2	372.3	370.5	368.8	367.0	365.3	367.0	368.8	370.5
122.5°	402.6	400.3	398.1	396.0	394.2	392.4	390.5	388.7	390.5	392.4	394.2
125°	436.6	434.4	432.2	430.3	428.8	427.3	425.8	424.3	425.8	427.3	428.8
127.5°	468.2	466.5	464.9	463.2	461.5	459.9	458.2	456.5	458.2	459.9	461.5
130°	488.5	487.3	486.0	484.4	482.6	480.7	478.8	477.0	478.8	480.7	482.6
132.5°	508.2	506.9	505.6	504.2	502.6	501.0	499.4	497.9	499.4	501.0	502.6
135°	536.0	534.9	533.9	532.4	530.6	528.7	526.9	525.0	526.9	528.7	530.6
137.5°	561.3	560.1	558.9	557.6	556.3	555.0	553.7	552.5	553.7	555.0	556.3
140°	577.8	576.5	575.2	574.1	573.2	572.3	571.3	570.4	571.3	572.3	573.2
142.5°	592.8	591.4	589.9	588.8	587.9	587.1	586.3	585.4	586.3	587.1	587.9
145°	613.4	611.5	609.5	608.6	608.7	608.8	608.9	609.0	608.9	608.8	608.7
147.5°	632.5	630.5	628.6	627.8	628.3	628.7	629.1	629.6	629.1	628.7	628.3
150°	643.9	642.1	640.2	639.7	640.5	641.3	642.1	642.9	642.1	641.3	640.5
152.5°	654.6	652.8	651.0	650.6	651.5	652.4	653.3	654.2	653.3	652.4	651.5
155°	669.4	668.0	666.6	666.4	667.5	668.5	669.6	670.6	669.6	668.5	667.5
157.5°	681.9	680.9	680.0	679.9	680.8	681.7	682.6	683.4	682.6	681.7	680.8
160°	689.6	688.9	688.2	688.2	688.9	689.6	690.3	691.0	690.3	689.6	688.9
162.5°	696.0	695.4	694.8	694.9	695.5	696.2	696.9	697.6	696.9	696.2	695.5
165°	704.3	704.0	703.7	703.8	704.5	705.2	705.9	706.6	705.9	705.2	704.5
167.5°	711.0	710.6	710.3	710.5	711.2	711.9	712.6	713.3	712.6	711.9	711.2
170°	714.5	714.3	714.0	714.3	715.0	715.7	716.4	717.0	716.4	715.7	715.0
172.5°	717.0	716.8	716.5	716.8	717.5	718.2	718.9	719.6	718.9	718.2	717.5
175°	719.7	719.5	719.3	719.5	720.4	721.2	722.0	722.8	722.0	721.2	720.4
177.5°	720.6	720.5	720.4	720.7	721.4	722.0	722.7	723.3	722.7	722.0	721.4
180°	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2



TEST NUMBER: P331711

CATALOG NUMBER: SA2XXRDIP-C865D530U835-4F0-1E-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°	11.2	10.9	10.0	10.2	10.4	10.0	10.2	9.8	9.9	10.0	9.5
90°	5.6	6.7	7.7	8.6	9.5	10.4	11.0	11.6	12.2	12.8	13.2
92.5°	10.1	10.3	10.7	11.2	11.6	12.1	12.4	12.7	13.0	13.3	13.5
95°	18.6	17.1	17.9	18.7	19.5	20.4	20.9	21.5	22.1	22.7	22.9
97.5°	24.2	19.7	21.6	23.5	25.4	27.2	27.7	28.2	28.6	29.1	29.4
100°	28.8	21.9	23.8	25.8	27.8	29.7	30.7	31.6	32.5	33.5	34.0
102.5°	106.5	96.5	80.1	63.6	47.1	30.6	31.8	33.0	34.2	35.4	36.2
105°	172.6	158.5	126.8	95.2	63.5	31.8	33.1	34.4	35.7	36.9	37.8
107.5°	214.0	196.4	158.5	120.5	82.5	44.6	43.3	42.0	40.7	39.4	39.0
110°	240.9	225.4	191.9	158.4	124.8	91.3	79.7	68.1	56.5	44.9	39.4



TEST NUMBER: P331711

CATALOG NUMBER: SA2XXRDIP-C865D530U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	266.5	263.5	255.2	246.9	238.6	230.4	188.0	145.7	103.4	61.1	40.2
115°	308.0	310.4	313.3	316.2	319.1	322.0	268.3	214.6	160.9	107.2	76.2
117.5°	346.6	348.7	350.7	352.7	354.7	356.6	343.7	330.7	317.7	304.7	284.5
120°	372.3	374.2	376.3	378.4	380.4	382.5	383.9	385.3	386.7	388.1	381.0
122.5°	396.0	398.1	400.3	402.6	404.9	407.2	408.0	408.8	409.7	410.5	409.4
125°	430.3	432.2	434.4	436.6	438.8	441.0	441.8	442.6	443.4	444.2	444.8
127.5°	463.2	464.9	466.5	468.2	469.8	471.5	472.6	473.8	475.0	476.2	476.8
130°	484.4	486.0	487.3	488.5	489.8	491.1	492.4	493.6	494.9	496.2	496.8
132.5°	504.2	505.6	506.9	508.2	509.4	510.7	511.8	512.9	514.0	515.1	515.5
135°	532.4	533.9	534.9	536.0	537.0	538.0	539.2	540.4	541.5	542.7	543.2
137.5°	557.6	558.9	560.1	561.3	562.4	563.6	564.8	565.9	567.0	568.2	568.5
140°	574.1	575.2	576.5	577.8	579.0	580.3	581.4	582.4	583.4	584.5	584.7
142.5°	588.8	589.9	591.4	592.8	594.3	595.8	596.7	597.7	598.6	599.6	599.8
145°	608.6	609.5	611.5	613.4	615.4	617.4	618.2	619.0	619.8	620.6	620.7
147.5°	627.8	628.6	630.5	632.5	634.4	636.4	637.0	637.6	638.2	638.8	638.8
150°	639.7	640.2	642.1	643.9	645.8	647.6	648.3	649.0	649.7	650.4	650.5
152.5°	650.6	651.0	652.8	654.6	656.3	658.1	658.8	659.5	660.2	660.9	660.8
155°	666.4	666.6	668.0	669.4	670.8	672.2	672.9	673.6	674.3	675.0	674.8
157.5°	679.9	680.0	680.9	681.9	682.9	683.9	684.6	685.4	686.2	687.0	687.0
160°	688.2	688.2	688.9	689.6	690.3	691.0	691.7	692.3	693.0	693.7	693.7
162.5°	694.9	694.8	695.4	696.0	696.6	697.2	698.0	698.8	699.6	700.4	700.3
165°	703.8	703.7	704.0	704.3	704.7	705.0	705.9	706.7	707.5	708.3	708.3
167.5°	710.5	710.3	710.6	711.0	711.3	711.6	712.4	713.2	714.1	714.9	714.8
170°	714.3	714.0	714.3	714.5	714.7	715.0	715.8	716.6	717.4	718.2	718.1
172.5°	716.8	716.5	716.8	717.0	717.2	717.5	718.3	719.1	719.9	720.7	720.6
175°	719.5	719.3	719.5	719.7	719.9	720.2	721.0	721.8	722.6	723.4	723.3
177.5°	720.7	720.4	720.5	720.6	720.7	720.8	721.5	722.1	722.8	723.4	723.3
180°	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2



TEST NUMBER: P331711

CATALOG NUMBER: SA2XXRDIP-C865D530U835-4F0-1E-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°	9.6	9.1	9.7	9.2	9.7	9.1	9.6	9.5	10.0	9.9	9.8
90°	13.4	13.6	13.9	14.1	13.9	13.6	13.4	13.2	12.8	12.2	11.6
92.5°	13.7	13.8	14.0	14.1	14.0	13.8	13.7	13.5	13.3	13.0	12.7
95°	22.8	22.7	22.6	22.4	22.6	22.7	22.8	22.9	22.7	22.1	21.5
97.5°	29.5	29.7	29.8	30.0	29.8	29.7	29.5	29.4	29.1	28.6	28.2
100°	34.3	34.5	34.7	35.0	34.7	34.5	34.3	34.0	33.5	32.5	31.6
102.5°	36.5	36.8	37.1	37.5	37.1	36.8	36.5	36.2	35.4	34.2	33.0
105°	38.3	38.7	39.2	39.7	39.2	38.7	38.3	37.8	36.9	35.7	34.4
107.5°	39.4	39.9	40.3	40.8	40.3	39.9	39.4	39.0	39.4	40.7	42.0
110°	39.8	40.3	40.8	41.2	40.8	40.3	39.8	39.4	44.9	56.5	68.1



TEST NUMBER: P331711

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	40.5	40.9	41.3	41.6	41.3	40.9	40.5	40.2	61.1	103.4	145.7
115°	67.8	59.5	51.1	42.8	51.1	59.5	67.8	76.2	107.2	160.9	214.6
117.5°	257.0	229.6	202.2	174.7	202.2	229.6	257.0	284.5	304.7	317.7	330.7
120°	365.3	349.7	334.0	318.3	334.0	349.7	365.3	381.0	388.1	386.7	385.3
122.5°	406.4	403.3	400.3	397.2	400.3	403.3	406.4	409.4	410.5	409.7	408.8
125°	445.2	445.5	445.9	446.2	445.9	445.5	445.2	444.8	444.2	443.4	442.6
127.5°	476.9	477.0	477.0	477.1	477.0	477.0	476.9	476.8	476.2	475.0	473.8
130°	496.6	496.5	496.4	496.3	496.4	496.5	496.6	496.8	496.2	494.9	493.6
132.5°	515.4	515.3	515.2	515.1	515.2	515.3	515.4	515.5	515.1	514.0	512.9
135°	542.9	542.7	542.5	542.2	542.5	542.7	542.9	543.2	542.7	541.5	540.4
137.5°	568.1	567.7	567.4	567.0	567.4	567.7	568.1	568.5	568.2	567.0	565.9
140°	584.1	583.6	583.0	582.4	583.0	583.6	584.1	584.7	584.5	583.4	582.4
142.5°	599.2	598.6	598.0	597.4	598.0	598.6	599.2	599.8	599.6	598.6	597.7
145°	620.2	619.6	619.0	618.4	619.0	619.6	620.2	620.7	620.6	619.8	619.0
147.5°	638.4	637.9	637.4	636.9	637.4	637.9	638.4	638.8	638.8	638.2	637.6
150°	649.9	649.3	648.7	648.2	648.7	649.3	649.9	650.5	650.4	649.7	649.0
152.5°	660.1	659.3	658.5	657.8	658.5	659.3	660.1	660.8	660.9	660.2	659.5
155°	673.9	673.0	672.1	671.1	672.1	673.0	673.9	674.8	675.0	674.3	673.6
157.5°	686.0	685.1	684.2	683.3	684.2	685.1	686.0	687.0	687.0	686.2	685.4
160°	692.9	692.1	691.2	690.4	691.2	692.1	692.9	693.7	693.7	693.0	692.3
162.5°	699.3	698.3	697.3	696.3	697.3	698.3	699.3	700.3	700.4	699.6	698.8
165°	707.5	706.7	705.9	705.0	705.9	706.7	707.5	708.3	708.3	707.5	706.7
167.5°	713.7	712.7	711.6	710.6	711.6	712.7	713.7	714.8	714.9	714.1	713.2
170°	717.0	716.0	715.0	713.9	715.0	716.0	717.0	718.1	718.2	717.4	716.6
172.5°	719.6	718.5	717.5	716.4	717.5	718.5	719.6	720.6	720.7	719.9	719.1
175°	722.1	720.9	719.8	718.6	719.8	720.9	722.1	723.3	723.4	722.6	721.8
177.5°	722.5	721.6	720.8	720.0	720.8	721.6	722.5	723.3	723.4	722.8	722.1
180°	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2



TEST NUMBER: P331711  
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**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°	10.2	10.0	10.4	10.2	10.0	10.9	11.2	11.5	12.3	13.6	15.5
90°	11.0	10.4	9.5	8.6	7.7	6.7	5.6	4.3	3.1	1.8	0.5
92.5°	12.4	12.1	11.6	11.2	10.7	10.3	10.1	10.2	10.3	10.4	10.5
95°	20.9	20.4	19.5	18.7	17.9	17.1	18.6	22.4	26.3	30.1	33.9
97.5°	27.7	27.2	25.4	23.5	21.6	19.7	24.2	35.0	45.8	56.5	67.3
100°	30.7	29.7	27.8	25.8	23.8	21.9	28.8	44.7	60.6	76.5	92.4
102.5°	31.8	30.6	47.1	63.6	80.1	96.5	106.5	109.8	113.2	116.6	119.9
105°	33.1	31.8	63.5	95.2	126.8	158.5	172.6	169.1	165.6	162.1	158.6
107.5°	43.3	44.6	82.5	120.5	158.5	196.4	214.0	211.2	208.4	205.6	202.8
110°	79.7	91.3	124.8	158.4	191.9	225.4	240.9	238.5	236.1	233.6	231.2



TEST NUMBER: P331711

CATALOG NUMBER: SA2XXRDIP-C865D530U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	188.0	230.4	238.6	246.9	255.2	263.5	266.5	264.4	262.2	260.1	257.9
115°	268.3	322.0	319.1	316.2	313.3	310.4	308.0	306.0	304.0	302.0	300.1
117.5°	343.7	356.6	354.7	352.7	350.7	348.7	346.6	344.4	342.2	340.0	337.8
120°	383.9	382.5	380.4	378.4	376.3	374.2	372.3	370.5	368.8	367.0	365.3
122.5°	408.0	407.2	404.9	402.6	400.3	398.1	396.0	394.2	392.4	390.5	388.7
125°	441.8	441.0	438.8	436.6	434.4	432.2	430.3	428.8	427.3	425.8	424.3
127.5°	472.6	471.5	469.8	468.2	466.5	464.9	463.2	461.5	459.9	458.2	456.5
130°	492.4	491.1	489.8	488.5	487.3	486.0	484.4	482.6	480.7	478.8	477.0
132.5°	511.8	510.7	509.4	508.2	506.9	505.6	504.2	502.6	501.0	499.4	497.9
135°	539.2	538.0	537.0	536.0	534.9	533.9	532.4	530.6	528.7	526.9	525.0
137.5°	564.8	563.6	562.4	561.3	560.1	558.9	557.6	556.3	555.0	553.7	552.5
140°	581.4	580.3	579.0	577.8	576.5	575.2	574.1	573.2	572.3	571.3	570.4
142.5°	596.7	595.8	594.3	592.8	591.4	589.9	588.8	587.9	587.1	586.3	585.4
145°	618.2	617.4	615.4	613.4	611.5	609.5	608.6	608.7	608.8	608.9	609.0
147.5°	637.0	636.4	634.4	632.5	630.5	628.6	627.8	628.3	628.7	629.1	629.6
150°	648.3	647.6	645.8	643.9	642.1	640.2	639.7	640.5	641.3	642.1	642.9
152.5°	658.8	658.1	656.3	654.6	652.8	651.0	650.6	651.5	652.4	653.3	654.2
155°	672.9	672.2	670.8	669.4	668.0	666.6	666.4	667.5	668.5	669.6	670.6
157.5°	684.6	683.9	682.9	681.9	680.9	680.0	679.9	680.8	681.7	682.6	683.4
160°	691.7	691.0	690.3	689.6	688.9	688.2	688.2	688.9	689.6	690.3	691.0
162.5°	698.0	697.2	696.6	696.0	695.4	694.8	694.9	695.5	696.2	696.9	697.6
165°	705.9	705.0	704.7	704.3	704.0	703.7	703.8	704.5	705.2	705.9	706.6
167.5°	712.4	711.6	711.3	711.0	710.6	710.3	710.5	711.2	711.9	712.6	713.3
170°	715.8	715.0	714.7	714.5	714.3	714.0	714.3	715.0	715.7	716.4	717.0
172.5°	718.3	717.5	717.2	717.0	716.8	716.5	716.8	717.5	718.2	718.9	719.6
175°	721.0	720.2	719.9	719.7	719.5	719.3	719.5	720.4	721.2	722.0	722.8
177.5°	721.5	720.8	720.7	720.6	720.5	720.4	720.7	721.4	722.0	722.7	723.3
180°	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2



TEST NUMBER: P331711

CATALOG NUMBER: SA2XXRDIP-C865D530U835-4F0-1E-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°	13.1	10.7	10.4	10.1	10.9	11.1	10.7	10.9	11.6	11.2	11.9
90°	1.8	3.1	4.3	5.6	6.7	7.7	8.6	9.5	10.4	11.0	11.6
92.5°	10.4	10.3	10.2	10.1	10.3	10.7	11.2	11.6	12.1	12.4	12.7
95°	30.1	26.3	22.4	18.6	17.1	17.9	18.7	19.5	20.4	20.9	21.5
97.5°	56.5	45.8	35.0	24.2	19.7	21.6	23.5	25.4	27.2	27.7	28.2
100°	76.5	60.6	44.7	28.8	21.9	23.8	25.8	27.8	29.7	30.7	31.6
102.5°	116.6	113.2	109.8	106.5	96.5	80.1	63.6	47.1	30.6	31.8	33.0
105°	162.1	165.6	169.1	172.6	158.5	126.8	95.2	63.5	31.8	33.1	34.4
107.5°	205.6	208.4	211.2	214.0	196.4	158.5	120.5	82.5	44.6	43.3	42.0
110°	233.6	236.1	238.5	240.9	225.4	191.9	158.4	124.8	91.3	79.7	68.1





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	260.1	262.2	264.4	266.5	263.5	255.2	246.9	238.6	230.4	188.0	145.7
115°	302.0	304.0	306.0	308.0	310.4	313.3	316.2	319.1	322.0	268.3	214.6
117.5°	340.0	342.2	344.4	346.6	348.7	350.7	352.7	354.7	356.6	343.7	330.7
120°	367.0	368.8	370.5	372.3	374.2	376.3	378.4	380.4	382.5	383.9	385.3
122.5°	390.5	392.4	394.2	396.0	398.1	400.3	402.6	404.9	407.2	408.0	408.8
125°	425.8	427.3	428.8	430.3	432.2	434.4	436.6	438.8	441.0	441.8	442.6
127.5°	458.2	459.9	461.5	463.2	464.9	466.5	468.2	469.8	471.5	472.6	473.8
130°	478.8	480.7	482.6	484.4	486.0	487.3	488.5	489.8	491.1	492.4	493.6
132.5°	499.4	501.0	502.6	504.2	505.6	506.9	508.2	509.4	510.7	511.8	512.9
135°	526.9	528.7	530.6	532.4	533.9	534.9	536.0	537.0	538.0	539.2	540.4
137.5°	553.7	555.0	556.3	557.6	558.9	560.1	561.3	562.4	563.6	564.8	565.9
140°	571.3	572.3	573.2	574.1	575.2	576.5	577.8	579.0	580.3	581.4	582.4
142.5°	586.3	587.1	587.9	588.8	589.9	591.4	592.8	594.3	595.8	596.7	597.7
145°	608.9	608.8	608.7	608.6	609.5	611.5	613.4	615.4	617.4	618.2	619.0
147.5°	629.1	628.7	628.3	627.8	628.6	630.5	632.5	634.4	636.4	637.0	637.6
150°	642.1	641.3	640.5	639.7	640.2	642.1	643.9	645.8	647.6	648.3	649.0
152.5°	653.3	652.4	651.5	650.6	651.0	652.8	654.6	656.3	658.1	658.8	659.5
155°	669.6	668.5	667.5	666.4	666.6	668.0	669.4	670.8	672.2	672.9	673.6
157.5°	682.6	681.7	680.8	679.9	680.0	680.9	681.9	682.9	683.9	684.6	685.4
160°	690.3	689.6	688.9	688.2	688.2	688.9	689.6	690.3	691.0	691.7	692.3
162.5°	696.9	696.2	695.5	694.9	694.8	695.4	696.0	696.6	697.2	698.0	698.8
165°	705.9	705.2	704.5	703.8	703.7	704.0	704.3	704.7	705.0	705.9	706.7
167.5°	712.6	711.9	711.2	710.5	710.3	710.6	711.0	711.3	711.6	712.4	713.2
170°	716.4	715.7	715.0	714.3	714.0	714.3	714.5	714.7	715.0	715.8	716.6
172.5°	718.9	718.2	717.5	716.8	716.5	716.8	717.0	717.2	717.5	718.3	719.1
175°	722.0	721.2	720.4	719.5	719.3	719.5	719.7	719.9	720.2	721.0	721.8
177.5°	722.7	722.0	721.4	720.7	720.4	720.5	720.6	720.7	720.8	721.5	722.1
180°	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2



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**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°	11.5	11.6	11.7	11.7	11.7	11.8	11.3
90°	12.2	12.8	13.2	13.4	13.6	13.9	14.1
92.5°	13.0	13.3	13.5	13.7	13.8	14.0	14.1
95°	22.1	22.7	22.9	22.8	22.7	22.6	22.4
97.5°	28.6	29.1	29.4	29.5	29.7	29.8	30.0
100°	32.5	33.5	34.0	34.3	34.5	34.7	35.0
102.5°	34.2	35.4	36.2	36.5	36.8	37.1	37.5
105°	35.7	36.9	37.8	38.3	38.7	39.2	39.7
107.5°	40.7	39.4	39.0	39.4	39.9	40.3	40.8
110°	56.5	44.9	39.4	39.8	40.3	40.8	41.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	103.4	61.1	40.2	40.5	40.9	41.3	41.6
115°	160.9	107.2	76.2	67.8	59.5	51.1	42.8
117.5°	317.7	304.7	284.5	257.0	229.6	202.2	174.7
120°	386.7	388.1	381.0	365.3	349.7	334.0	318.3
122.5°	409.7	410.5	409.4	406.4	403.3	400.3	397.2
125°	443.4	444.2	444.8	445.2	445.5	445.9	446.2
127.5°	475.0	476.2	476.8	476.9	477.0	477.0	477.1
130°	494.9	496.2	496.8	496.6	496.5	496.4	496.3
132.5°	514.0	515.1	515.5	515.4	515.3	515.2	515.1
135°	541.5	542.7	543.2	542.9	542.7	542.5	542.2
137.5°	567.0	568.2	568.5	568.1	567.7	567.4	567.0
140°	583.4	584.5	584.7	584.1	583.6	583.0	582.4
142.5°	598.6	599.6	599.8	599.2	598.6	598.0	597.4
145°	619.8	620.6	620.7	620.2	619.6	619.0	618.4
147.5°	638.2	638.8	638.8	638.4	637.9	637.4	636.9
150°	649.7	650.4	650.5	649.9	649.3	648.7	648.2
152.5°	660.2	660.9	660.8	660.1	659.3	658.5	657.8
155°	674.3	675.0	674.8	673.9	673.0	672.1	671.1
157.5°	686.2	687.0	687.0	686.0	685.1	684.2	683.3
160°	693.0	693.7	693.7	692.9	692.1	691.2	690.4
162.5°	699.6	700.4	700.3	699.3	698.3	697.3	696.3
165°	707.5	708.3	708.3	707.5	706.7	705.9	705.0
167.5°	714.1	714.9	714.8	713.7	712.7	711.6	710.6
170°	717.4	718.2	718.1	717.0	716.0	715.0	713.9
172.5°	719.9	720.7	720.6	719.6	718.5	717.5	716.4
175°	722.6	723.4	723.3	722.1	720.9	719.8	718.6
177.5°	722.8	723.4	723.3	722.5	721.6	720.8	720.0
180°	721.2	721.2	721.2	721.2	721.2	721.2	721.2

(END OF REPORT)