

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: P331741-840

Luminaire Tested: **SA2XXRDIP-C1005D530U840-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331741-840
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-C1005D530U840-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 530 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

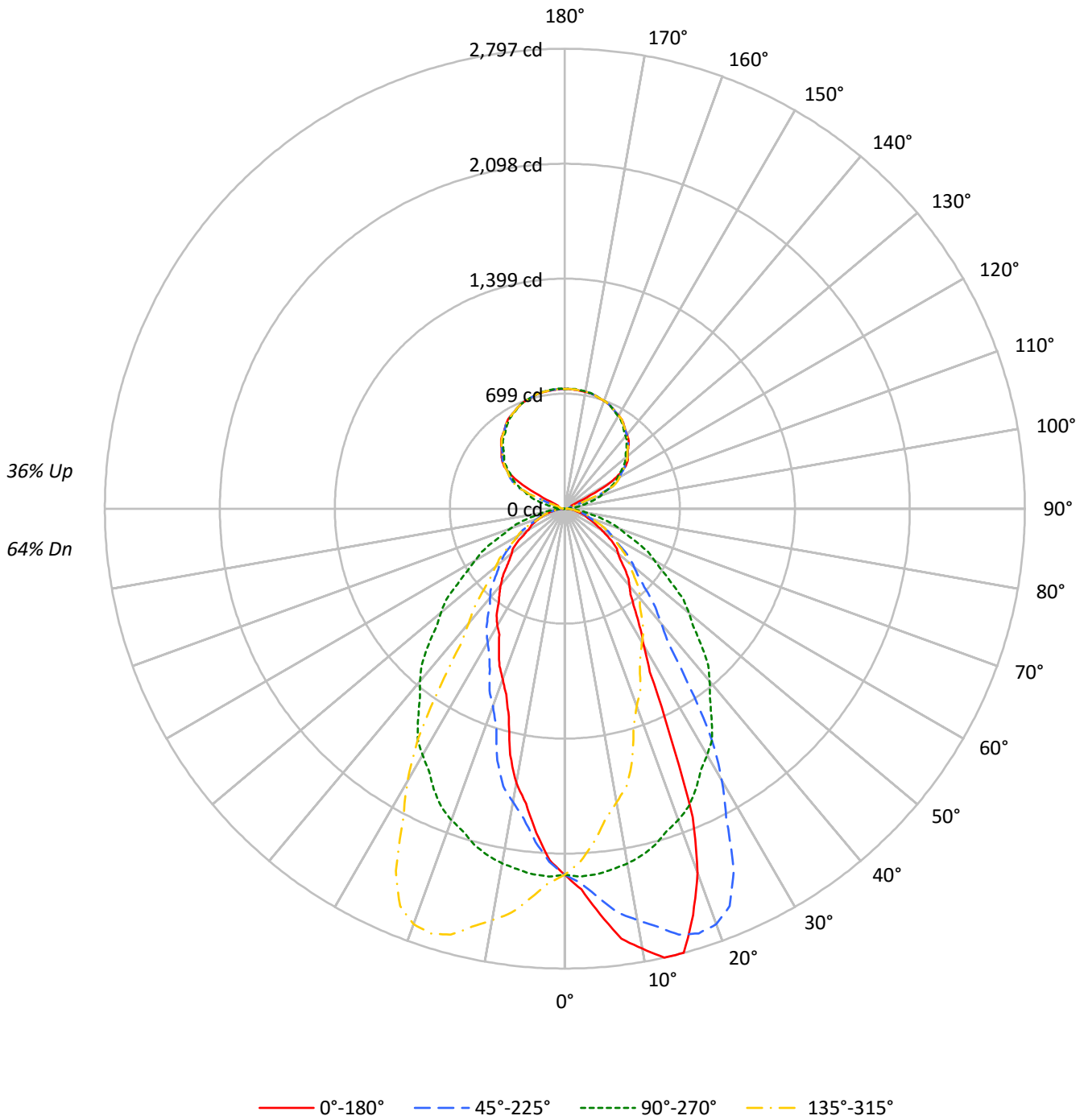
Lumens per Lamp: N/A
Luminaire Lumens: 5985.3 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	64
1	102	98	94	91	96	92	89	86	82	79	77	72	70	69	63	62	60	56
2	94	87	81	76	88	82	77	73	73	69	66	64	61	59	57	54	53	49
3	86	77	70	65	81	73	67	62	65	60	56	58	54	51	51	48	46	43
4	80	69	62	56	75	66	59	54	59	53	49	52	48	45	46	43	41	38
5	74	62	55	49	69	59	52	47	53	48	43	48	43	40	43	39	36	33
6	68	57	49	43	64	54	47	42	49	43	39	44	39	36	39	35	33	30
7	64	52	44	39	60	49	42	37	45	39	35	40	36	32	36	32	30	27
8	59	47	40	35	56	45	38	34	41	35	31	37	32	29	33	30	27	25
9	56	44	36	31	52	42	35	30	38	32	28	34	30	27	31	27	25	23
10	52	40	33	29	49	39	32	28	35	30	26	32	28	24	29	25	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	35960	35960	35960	35960
5°	40161	36185	32083	36185
10°	44558	35931	27811	35931
15°	46748	35405	21912	35405
20°	40527	34625	18962	34625
25°	26580	33556	16930	33556
30°	17890	32261	15321	32261
35°	14491	30628	13819	30628
40°	12886	28854	12787	28854
45°	11663	26772	11415	26772
50°	10613	24707	10575	24707
55°	9979	22415	9847	22415
60°	8344	20315	8247	20315
65°	7037	18449	7981	18449
70°	6500	16475	7530	16475
75°	6089	14336	6949	14336
80°	5616	11799	6192	11799
85°	5169	9318	5446	9318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.1	3.5
10°-20°	588.3	9.8
20°-30°	758.1	12.7
30°-40°	720.4	12.0
40°-50°	617.1	10.3
50°-60°	470.0	7.9
60°-70°	297.1	5.0
70°-80°	148.4	2.5
80°-90°	40.4	0.7
90°-100°	24.3	0.4
100°-110°	89.1	1.5
110°-120°	238.2	4.0
120°-130°	393.1	6.6
130°-140°	418.1	7.0
140°-150°	388.6	6.5
150°-160°	312.4	5.2
160°-170°	201.3	3.4
170°-180°	69.3	1.2
0°-30°	1557.5	26.0
0°-40°	2277.9	38.1
0°-60°	3365.0	56.2
0°-90°	3850.9	64.3
90°-120°	351.5	5.9
90°-150°	1551.4	25.9
90°-180°	2134.0	35.7
0°-180°	5985.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2227	2227	2227	2227	2227	
5°	2478	2233	1980	2233	2478	245
15°	2797	2118	1311	2118	2797	754
25°	1492	1884	950	1884	1492	708
35°	735	1554	701	1554	735	470
45°	511	1172	500	1172	511	395
55°	354	796	350	796	354	311
65°	184	483	209	483	184	187
75°	98	230	111	230	98	103
85°	28	50	29	50	28	30
90°	14	0	14	0	14	8
95°	23	34	23	34	23	21
105°	40	160	40	160	40	42
115°	43	303	43	303	43	108
125°	451	428	451	428	451	390
135°	548	530	548	530	548	422
145°	624	615	624	615	624	391
155°	678	677	678	677	678	313
165°	712	714	712	714	712	201
175°	726	730	726	730	726	69
180°	728	728	728	728	728	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2317.5	2319.5	2321.3	2316.9	2316.9	2313.2	2305.2	2299.0	2281.7	2279.2	2279.2
5°	2477.9	2476.4	2479.4	2469.4	2455.5	2452.4	2437.7	2418.3	2398.2	2375.8	2371.2
7.5°	2637.4	2635.0	2628.8	2627.2	2616.5	2593.0	2569.4	2544.2	2510.7	2478.1	2461.6
10°	2717.8	2743.4	2727.8	2700.8	2706.2	2669.9	2650.5	2617.3	2589.4	2540.6	2529.8
12.5°	2797.0	2807.1	2802.2	2786.8	2779.9	2754.6	2728.5	2699.6	2648.2	2604.3	2566.3
15°	2796.7	2811.5	2815.3	2810.7	2814.6	2813.0	2799.0	2775.1	2730.2	2682.2	2640.4
17.5°	2590.3	2600.5	2625.9	2643.0	2664.7	2710.6	2733.1	2742.0	2735.3	2708.0	2678.5
20°	2358.7	2341.7	2412.9	2449.3	2480.2	2557.6	2624.1	2649.7	2690.7	2690.0	2682.2
22.5°	2030.6	2034.7	2102.1	2145.4	2235.7	2313.1	2388.9	2485.1	2564.5	2616.9	2647.6
25°	1492.0	1521.5	1588.7	1647.6	1748.2	1892.1	2022.9	2174.5	2317.7	2430.7	2538.3
27.5°	1120.5	1122.8	1176.1	1230.4	1290.2	1408.2	1572.8	1753.9	1958.0	2126.5	2320.2
30°	959.6	954.9	977.3	1010.7	1061.8	1153.1	1276.9	1454.9	1658.4	1912.2	2138.2
32.5°	845.7	846.0	862.8	887.5	929.9	991.5	1076.3	1220.8	1413.2	1662.7	1927.7
35°	735.2	734.4	746.8	764.6	782.3	821.8	879.9	955.7	1088.0	1321.0	1591.9
37.5°	655.9	659.3	665.4	676.5	696.2	718.1	753.0	803.9	898.2	1035.9	1263.5
40°	611.4	612.9	621.4	630.7	642.3	659.3	687.9	729.0	797.9	907.8	1074.1
42.5°	570.5	572.1	578.0	586.7	595.9	612.9	636.6	672.1	727.9	813.6	950.9
45°	510.8	510.8	516.1	520.1	530.1	545.5	564.9	594.3	633.0	696.5	787.8
47.5°	454.7	454.8	458.5	465.1	471.4	483.5	502.5	526.5	554.7	603.8	681.8
50°	422.5	423.3	425.7	431.0	434.9	445.8	460.5	481.3	510.8	548.7	613.7
52.5°	396.6	396.1	399.0	401.3	403.9	411.7	422.7	441.1	467.4	500.4	554.2
55°	354.5	351.3	356.0	359.8	362.1	365.3	371.4	383.0	405.5	433.3	473.6
57.5°	301.8	300.5	303.9	307.4	314.7	323.1	328.3	335.7	347.3	367.3	407.2
60°	258.4	258.4	265.4	267.7	276.3	287.1	297.9	304.2	315.8	328.9	358.3
62.5°	220.0	220.8	224.0	226.3	231.1	244.4	259.5	273.2	284.2	296.7	316.2
65°	184.2	185.7	185.7	187.2	190.4	193.5	199.7	210.5	229.8	247.6	262.4
67.5°	156.3	156.8	157.2	158.8	159.6	163.0	165.4	170.3	174.7	191.6	209.8
70°	137.7	140.1	139.3	140.9	141.6	143.2	146.2	148.6	155.5	159.5	170.3
72.5°	120.4	122.1	122.0	122.9	124.9	125.2	127.6	130.0	134.5	137.7	143.6
75°	97.6	96.7	97.6	99.1	99.9	100.6	100.6	103.7	106.0	109.1	113.0
77.5°	75.2	76.0	75.8	76.0	76.1	77.6	77.4	78.8	81.1	82.6	84.5
80°	60.4	61.1	60.4	61.1	61.9	62.7	61.9	62.7	65.0	66.6	66.6
82.5°	46.8	46.9	47.4	47.6	47.7	47.9	48.9	49.1	50.8	50.5	51.1
85°	27.9	27.1	27.1	27.1	27.9	28.7	27.9	27.9	28.7	28.7	28.7
87.5°	12.7	13.3	13.2	13.2	13.2	13.1	13.0	13.5	12.7	13.2	12.4
90°	14.2	14.0	13.7	13.5	13.3	12.9	12.3	11.7	11.1	10.5	9.6
92.5°	14.2	14.1	13.9	13.8	13.6	13.4	13.1	12.8	12.5	12.2	11.7
95°	22.6	22.8	22.9	23.0	23.1	22.9	22.3	21.7	21.1	20.6	19.7
97.5°	30.3	30.1	30.0	29.8	29.7	29.4	28.9	28.5	28.0	27.5	25.7
100°	35.3	35.0	34.8	34.6	34.3	33.8	32.8	31.9	31.0	30.0	28.1
102.5°	37.9	37.5	37.2	36.9	36.6	35.7	34.5	33.3	32.1	30.9	47.6
105°	40.1	39.6	39.1	38.7	38.2	37.3	36.1	34.7	33.4	32.1	64.1
107.5°	41.2	40.7	40.3	39.8	39.4	39.8	41.1	42.4	43.7	45.0	83.3
110°	41.6	41.2	40.7	40.2	39.8	45.3	57.1	68.8	80.5	92.2	126.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	42.0	41.7	41.3	40.9	40.6	61.7	104.4	147.1	189.9	232.7	241.0
115°	43.2	51.6	60.1	68.5	77.0	108.3	162.5	216.7	270.9	325.2	322.2
117.5°	176.4	204.2	231.9	259.5	287.3	307.7	320.8	334.0	347.1	360.1	358.2
120°	321.4	337.3	353.1	368.9	384.8	391.9	390.5	389.1	387.7	386.3	384.2
122.5°	401.1	404.2	407.3	410.4	413.4	414.5	413.7	412.8	412.0	411.2	408.9
125°	450.6	450.3	449.9	449.6	449.2	448.6	447.8	447.0	446.2	445.4	443.1
127.5°	481.8	481.7	481.7	481.6	481.5	480.9	479.7	478.5	477.3	476.2	474.4
130°	501.2	501.3	501.4	501.5	501.7	501.1	499.8	498.5	497.3	495.9	494.6
132.5°	520.2	520.3	520.4	520.5	520.6	520.2	519.1	518.0	516.8	515.7	514.4
135°	547.5	547.9	548.1	548.3	548.6	548.1	546.8	545.7	544.5	543.3	542.3
137.5°	572.6	573.0	573.3	573.7	574.1	573.8	572.6	571.5	570.4	569.2	567.9
140°	588.1	588.8	589.4	589.9	590.5	590.3	589.2	588.1	587.1	586.0	584.7
142.5°	603.3	603.9	604.5	605.1	605.7	605.5	604.5	603.6	602.6	601.7	600.2
145°	624.5	625.1	625.7	626.3	626.8	626.7	625.9	625.1	624.3	623.5	621.5
147.5°	643.2	643.7	644.2	644.7	645.1	645.1	644.5	643.9	643.3	642.7	640.7
150°	654.6	655.1	655.7	656.3	656.9	656.8	656.1	655.4	654.7	654.0	652.2
152.5°	664.3	665.0	665.8	666.6	667.3	667.4	666.7	666.0	665.3	664.6	662.8
155°	677.7	678.7	679.6	680.5	681.5	681.7	681.0	680.2	679.5	678.8	677.4
157.5°	690.0	690.9	691.9	692.8	693.8	693.8	693.0	692.2	691.4	690.6	689.6
160°	697.2	698.0	698.9	699.7	700.5	700.5	699.8	699.1	698.5	697.8	697.1
162.5°	703.2	704.2	705.2	706.2	707.2	707.3	706.5	705.7	704.9	704.1	703.5
165°	712.0	712.9	713.7	714.5	715.3	715.3	714.5	713.7	712.9	712.0	711.7
167.5°	717.6	718.6	719.7	720.7	721.9	722.0	721.1	720.2	719.4	718.6	718.3
170°	720.9	722.1	723.1	724.1	725.2	725.3	724.5	723.7	722.9	722.1	721.8
172.5°	723.5	724.6	725.6	726.7	727.7	727.8	727.0	726.2	725.4	724.6	724.3
175°	725.7	726.9	728.0	729.2	730.4	730.5	729.7	728.9	728.1	727.3	727.0
177.5°	727.1	727.9	728.7	729.6	730.4	730.5	729.9	729.2	728.6	727.9	727.8
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2280.5	2275.4	2271.2	2260.0	2254.4	2242.0	2240.2	2239.6	2223.5	2208.0	2203.6
5°	2358.7	2346.3	2327.8	2306.1	2283.7	2260.5	2245.0	2232.6	2201.6	2172.2	2155.3
7.5°	2437.7	2411.1	2379.0	2338.0	2303.8	2265.4	2237.0	2211.4	2167.5	2125.4	2097.0
10°	2496.5	2453.2	2410.5	2354.1	2310.0	2266.6	2226.4	2191.6	2142.0	2086.4	2046.9
12.5°	2533.0	2485.4	2426.7	2371.5	2314.3	2259.3	2205.3	2160.6	2102.4	2044.9	1998.0
15°	2582.4	2531.3	2460.1	2381.2	2307.6	2235.7	2173.8	2118.1	2042.3	1973.4	1916.1
17.5°	2622.8	2552.5	2476.1	2384.8	2299.7	2208.2	2128.5	2057.3	1972.9	1889.8	1822.3
20°	2635.7	2566.2	2477.9	2386.6	2286.0	2178.5	2092.5	2015.2	1924.6	1834.0	1756.7
22.5°	2627.8	2573.5	2475.5	2366.2	2263.1	2150.6	2053.6	1963.8	1863.3	1770.9	1681.1
25°	2573.1	2554.6	2461.6	2342.5	2224.8	2094.1	1981.9	1883.6	1769.1	1670.0	1572.5
27.5°	2445.7	2485.8	2428.2	2301.3	2170.5	2030.3	1904.2	1792.3	1673.4	1562.0	1464.8
30°	2323.2	2415.2	2390.5	2272.8	2126.6	1988.8	1847.2	1730.4	1603.5	1488.9	1393.0
32.5°	2155.4	2307.5	2331.7	2233.2	2082.0	1930.7	1782.2	1666.0	1533.5	1412.8	1319.3
35°	1888.2	2115.8	2220.2	2157.6	2005.9	1842.6	1689.3	1553.9	1420.8	1301.6	1208.8
37.5°	1569.5	1879.5	2053.6	2058.0	1918.7	1749.0	1582.1	1447.6	1311.4	1194.4	1094.0
40°	1362.8	1698.6	1925.4	1975.7	1858.1	1674.7	1505.9	1369.0	1235.9	1121.4	1006.0
42.5°	1177.1	1511.7	1790.4	1877.8	1784.4	1602.3	1432.9	1289.7	1160.3	1052.0	934.2
45°	951.9	1244.4	1551.6	1707.9	1656.1	1487.3	1308.6	1172.5	1050.9	957.3	844.2
47.5°	802.9	1009.2	1306.5	1517.8	1516.9	1362.9	1187.1	1056.6	943.9	856.2	764.8
50°	718.1	897.7	1149.2	1389.1	1409.2	1280.0	1112.8	983.6	878.4	786.3	712.8
52.5°	642.0	789.9	1016.1	1246.1	1303.3	1191.4	1029.3	909.9	807.8	723.1	660.1
55°	542.5	657.0	828.8	1043.9	1130.6	1051.7	907.8	796.3	713.5	642.3	588.1
57.5°	458.9	544.8	682.7	855.9	956.8	907.2	788.4	697.9	627.0	562.6	519.9
60°	406.3	476.7	593.6	738.3	849.7	814.9	713.5	629.1	568.8	513.1	472.8
62.5°	356.8	417.3	517.5	634.9	737.0	722.7	639.9	569.1	516.1	465.4	431.3
65°	287.1	331.2	409.4	501.5	583.5	590.5	530.9	482.9	435.7	395.5	365.3
67.5°	228.6	257.4	312.5	390.0	451.5	473.4	437.1	400.4	362.9	331.8	305.7
70°	192.7	215.9	256.1	318.8	375.4	398.5	377.7	349.0	316.5	290.9	268.5
72.5°	156.1	178.7	208.4	254.5	302.9	328.0	320.7	300.1	273.8	252.6	231.4
75°	117.6	124.6	144.7	175.7	213.6	235.3	240.7	229.8	208.9	192.7	180.3
77.5°	86.9	91.2	100.8	117.0	141.8	161.1	169.1	167.7	153.4	143.9	132.3
80°	69.7	72.0	76.6	83.6	102.2	121.5	126.9	126.9	116.8	113.0	101.4
82.5°	52.9	54.6	57.5	61.3	70.0	86.8	92.9	94.1	87.8	82.6	73.5
85°	30.2	29.4	31.0	33.3	34.8	39.5	48.8	50.3	48.8	42.5	40.2
87.5°	12.2	12.7	12.5	11.6	12.0	12.4	15.2	18.1	15.9	14.2	13.2
90°	8.7	7.8	6.8	5.7	4.3	3.1	1.8	0.5	1.8	3.1	4.3
92.5°	11.3	10.8	10.4	10.2	10.3	10.4	10.5	10.6	10.5	10.4	10.3
95°	18.9	18.1	17.3	18.8	22.6	26.6	30.4	34.2	30.4	26.6	22.6
97.5°	23.7	21.8	19.9	24.4	35.3	46.3	57.1	68.0	57.1	46.3	35.3
100°	26.1	24.0	22.1	29.1	45.1	61.2	77.3	93.3	77.3	61.2	45.1
102.5°	64.2	80.9	97.5	107.6	110.9	114.3	117.8	121.1	117.8	114.3	110.9
105°	96.1	128.1	160.1	174.3	170.8	167.2	163.7	160.2	163.7	167.2	170.8
107.5°	121.7	160.1	198.3	216.1	213.3	210.5	207.6	204.8	207.6	210.5	213.3
110°	160.0	193.8	227.6	243.3	240.9	238.4	235.9	233.5	235.9	238.4	240.9



TEST NUMBER: P331741-840

CATALOG NUMBER: SA2XXRDIP-C1005D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	249.3	257.7	266.1	269.1	267.0	264.8	262.7	260.4	262.7	264.8	267.0
115°	319.3	316.4	313.5	311.0	309.0	307.0	305.0	303.1	305.0	307.0	309.0
117.5°	356.2	354.2	352.1	350.0	347.8	345.6	343.4	341.1	343.4	345.6	347.8
120°	382.1	380.0	377.9	376.0	374.2	372.4	370.6	368.9	370.6	372.4	374.2
122.5°	406.6	404.2	402.0	399.9	398.1	396.3	394.4	392.5	394.4	396.3	398.1
125°	440.9	438.7	436.5	434.5	433.0	431.5	430.0	428.5	430.0	431.5	433.0
127.5°	472.8	471.1	469.5	467.8	466.1	464.4	462.7	461.0	462.7	464.4	466.1
130°	493.3	492.1	490.8	489.2	487.4	485.4	483.5	481.7	483.5	485.4	487.4
132.5°	513.2	511.9	510.6	509.2	507.6	505.9	504.3	502.8	504.3	505.9	507.6
135°	541.3	540.2	539.2	537.7	535.8	533.9	532.1	530.2	532.1	533.9	535.8
137.5°	566.8	565.6	564.4	563.1	561.8	560.5	559.2	558.0	559.2	560.5	561.8
140°	583.5	582.2	580.9	579.8	578.9	577.9	576.9	576.0	576.9	577.9	578.9
142.5°	598.6	597.2	595.7	594.6	593.7	592.9	592.1	591.2	592.1	592.9	593.7
145°	619.5	617.5	615.5	614.6	614.7	614.8	614.9	615.0	614.9	614.8	614.7
147.5°	638.7	636.7	634.8	634.0	634.5	634.9	635.3	635.8	635.3	634.9	634.5
150°	650.3	648.4	646.5	646.0	646.8	647.6	648.4	649.2	648.4	647.6	646.8
152.5°	661.1	659.2	657.4	657.0	657.9	658.8	659.7	660.7	659.7	658.8	657.9
155°	676.0	674.6	673.2	673.0	674.1	675.1	676.2	677.2	676.2	675.1	674.1
157.5°	688.6	687.6	686.7	686.6	687.5	688.4	689.3	690.1	689.3	688.4	687.5
160°	696.4	695.7	695.0	695.0	695.7	696.4	697.1	697.8	697.1	696.4	695.7
162.5°	702.9	702.3	701.7	701.8	702.4	703.1	703.8	704.5	703.8	703.1	702.4
165°	711.2	710.9	710.6	710.7	711.4	712.2	712.9	713.6	712.9	712.2	711.4
167.5°	718.0	717.6	717.3	717.5	718.2	718.9	719.6	720.3	719.6	718.9	718.2
170°	721.5	721.3	721.0	721.3	722.1	722.8	723.5	724.1	723.5	722.8	722.1
172.5°	724.1	723.9	723.6	723.9	724.6	725.3	726.0	726.7	726.0	725.3	724.6
175°	726.8	726.6	726.4	726.6	727.5	728.3	729.1	729.9	729.1	728.3	727.5
177.5°	727.7	727.6	727.5	727.8	728.5	729.1	729.8	730.4	729.8	729.1	728.5
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3



TEST NUMBER: P331741-840

CATALOG NUMBER: SA2XXRDIP-C1005D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2195.6	2191.3	2183.2	2170.8	2163.4	2150.4	2141.7	2146.7	2148.0	2146.7	2145.5
5°	2136.7	2120.4	2098.0	2076.3	2056.2	2034.5	2022.2	2016.7	2005.9	1999.6	1996.6
7.5°	2065.3	2037.3	2005.6	1967.8	1935.7	1902.2	1885.0	1876.4	1854.3	1842.3	1831.7
10°	2012.1	1967.9	1936.2	1886.7	1856.5	1812.4	1782.2	1783.0	1752.8	1735.8	1723.4
12.5°	1953.3	1904.8	1852.0	1807.5	1765.5	1730.1	1693.6	1679.0	1647.0	1630.5	1597.1
15°	1855.7	1799.3	1743.5	1683.1	1640.6	1585.7	1533.1	1468.8	1416.9	1372.1	1359.7
17.5°	1749.3	1679.3	1623.5	1552.6	1479.7	1387.3	1326.3	1289.0	1257.7	1234.1	1216.4
20°	1676.2	1605.0	1545.4	1438.7	1340.3	1277.7	1232.7	1204.2	1171.6	1146.1	1132.2
22.5°	1599.4	1525.1	1443.9	1324.7	1248.1	1197.8	1157.8	1124.9	1102.9	1083.0	1070.3
25°	1490.5	1409.2	1275.4	1193.3	1131.4	1078.7	1050.9	1030.8	1007.5	980.5	968.2
27.5°	1375.3	1246.1	1149.9	1088.9	1029.9	995.6	970.6	940.6	919.8	907.6	894.7
30°	1289.3	1160.0	1085.0	1018.4	976.6	938.7	909.3	892.3	872.1	851.2	842.7
32.5°	1193.3	1090.0	1018.1	962.7	920.3	888.0	864.7	837.2	822.6	809.8	791.9
35°	1074.1	995.9	930.2	885.3	845.1	818.8	791.6	775.4	749.1	738.3	731.3
37.5°	973.2	905.4	856.4	809.0	777.1	748.0	731.4	705.6	694.2	679.1	664.5
40°	916.3	849.7	802.5	763.8	728.2	706.5	685.6	664.8	647.7	640.8	623.0
42.5°	858.1	803.9	756.7	714.3	690.4	667.5	641.1	625.7	608.1	596.8	585.8
45°	777.7	729.7	689.5	654.7	628.3	604.4	587.3	561.8	551.8	529.4	520.1
47.5°	707.2	662.6	624.2	591.1	565.4	549.8	524.8	504.8	488.8	475.0	463.1
50°	657.0	619.9	582.7	553.3	530.1	507.7	482.1	472.0	447.3	440.3	433.3
52.5°	611.2	575.9	541.9	513.1	489.9	468.1	445.6	432.4	415.8	408.8	403.6
55°	547.1	513.1	480.6	455.0	431.8	409.4	395.5	379.2	371.4	366.1	359.8
57.5°	482.7	452.1	427.2	401.3	378.0	360.1	344.1	334.3	326.3	319.1	311.7
60°	441.9	412.4	390.0	366.1	342.0	327.3	315.0	303.4	294.1	283.3	280.1
62.5°	398.5	372.8	352.2	328.9	308.0	294.6	282.8	271.8	260.6	244.9	240.5
65°	338.9	318.8	297.2	277.8	259.2	246.1	229.0	216.7	212.1	210.5	209.7
67.5°	285.1	266.1	247.5	227.6	210.8	198.5	190.0	188.0	184.8	183.9	181.7
70°	249.2	231.4	212.8	194.2	178.0	175.7	172.6	169.5	165.6	164.1	162.5
72.5°	217.0	198.5	180.0	165.1	158.1	155.2	152.2	149.1	146.4	144.9	143.9
75°	166.4	149.4	136.9	131.6	127.6	125.3	120.7	118.4	116.8	114.5	113.7
77.5°	119.8	110.2	104.5	101.1	97.0	94.5	91.9	89.6	88.0	87.5	86.2
80°	91.3	86.6	82.8	78.2	76.6	73.5	72.7	70.4	71.2	68.9	68.9
82.5°	70.9	65.0	61.8	59.6	58.1	55.5	54.8	53.7	53.8	52.1	52.1
85°	36.4	34.8	33.3	31.7	31.7	29.4	30.2	29.4	29.4	27.9	27.1
87.5°	12.9	12.5	11.4	11.6	11.8	11.4	11.5	11.0	11.1	11.2	10.7
90°	5.7	6.8	7.8	8.7	9.6	10.5	11.1	11.7	12.3	12.9	13.3
92.5°	10.2	10.4	10.8	11.3	11.7	12.2	12.5	12.8	13.1	13.4	13.6
95°	18.8	17.3	18.1	18.9	19.7	20.6	21.1	21.7	22.3	22.9	23.1
97.5°	24.4	19.9	21.8	23.7	25.7	27.5	28.0	28.5	28.9	29.4	29.7
100°	29.1	22.1	24.0	26.1	28.1	30.0	31.0	31.9	32.8	33.8	34.3
102.5°	107.6	97.5	80.9	64.2	47.6	30.9	32.1	33.3	34.5	35.7	36.6
105°	174.3	160.1	128.1	96.1	64.1	32.1	33.4	34.7	36.1	37.3	38.2
107.5°	216.1	198.3	160.1	121.7	83.3	45.0	43.7	42.4	41.1	39.8	39.4
110°	243.3	227.6	193.8	160.0	126.0	92.2	80.5	68.8	57.1	45.3	39.8



TEST NUMBER: P331741-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	269.1	266.1	257.7	249.3	241.0	232.7	189.9	147.1	104.4	61.7	40.6
115°	311.0	313.5	316.4	319.3	322.2	325.2	270.9	216.7	162.5	108.3	77.0
117.5°	350.0	352.1	354.2	356.2	358.2	360.1	347.1	334.0	320.8	307.7	287.3
120°	376.0	377.9	380.0	382.1	384.2	386.3	387.7	389.1	390.5	391.9	384.8
122.5°	399.9	402.0	404.2	406.6	408.9	411.2	412.0	412.8	413.7	414.5	413.4
125°	434.5	436.5	438.7	440.9	443.1	445.4	446.2	447.0	447.8	448.6	449.2
127.5°	467.8	469.5	471.1	472.8	474.4	476.2	477.3	478.5	479.7	480.9	481.5
130°	489.2	490.8	492.1	493.3	494.6	495.9	497.3	498.5	499.8	501.1	501.7
132.5°	509.2	510.6	511.9	513.2	514.4	515.7	516.8	518.0	519.1	520.2	520.6
135°	537.7	539.2	540.2	541.3	542.3	543.3	544.5	545.7	546.8	548.1	548.6
137.5°	563.1	564.4	565.6	566.8	567.9	569.2	570.4	571.5	572.6	573.8	574.1
140°	579.8	580.9	582.2	583.5	584.7	586.0	587.1	588.1	589.2	590.3	590.5
142.5°	594.6	595.7	597.2	598.6	600.2	601.7	602.6	603.6	604.5	605.5	605.7
145°	614.6	615.5	617.5	619.5	621.5	623.5	624.3	625.1	625.9	626.7	626.8
147.5°	634.0	634.8	636.7	638.7	640.7	642.7	643.3	643.9	644.5	645.1	645.1
150°	646.0	646.5	648.4	650.3	652.2	654.0	654.7	655.4	656.1	656.8	656.9
152.5°	657.0	657.4	659.2	661.1	662.8	664.6	665.3	666.0	666.7	667.4	667.3
155°	673.0	673.2	674.6	676.0	677.4	678.8	679.5	680.2	681.0	681.7	681.5
157.5°	686.6	686.7	687.6	688.6	689.6	690.6	691.4	692.2	693.0	693.8	693.8
160°	695.0	695.0	695.7	696.4	697.1	697.8	698.5	699.1	699.8	700.5	700.5
162.5°	701.8	701.7	702.3	702.9	703.5	704.1	704.9	705.7	706.5	707.3	707.2
165°	710.7	710.6	710.9	711.2	711.7	712.0	712.9	713.7	714.5	715.3	715.3
167.5°	717.5	717.3	717.6	718.0	718.3	718.6	719.4	720.2	721.1	722.0	721.9
170°	721.3	721.0	721.3	721.5	721.8	722.1	722.9	723.7	724.5	725.3	725.2
172.5°	723.9	723.6	723.9	724.1	724.3	724.6	725.4	726.2	727.0	727.8	727.7
175°	726.6	726.4	726.6	726.8	727.0	727.3	728.1	728.9	729.7	730.5	730.4
177.5°	727.8	727.5	727.6	727.7	727.8	727.9	728.6	729.2	729.9	730.5	730.4
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3



TEST NUMBER: P331741-840

CATALOG NUMBER: SA2XXRDIP-C1005D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2138.7	2139.9	2138.1	2139.3	2138.1	2139.9	2138.7	2145.5	2146.7	2148.0	2146.7
5°	1992.7	1983.4	1981.9	1979.5	1981.9	1983.4	1992.7	1996.6	1999.6	2005.9	2016.7
7.5°	1818.5	1817.1	1813.2	1807.8	1813.2	1817.1	1818.5	1831.7	1842.3	1854.3	1876.4
10°	1706.4	1702.5	1701.7	1696.3	1701.7	1702.5	1706.4	1723.4	1735.8	1752.8	1783.0
12.5°	1575.1	1550.2	1547.6	1534.1	1547.6	1550.2	1575.1	1597.1	1630.5	1647.0	1679.0
15°	1341.1	1336.5	1321.0	1310.9	1321.0	1336.5	1341.1	1359.7	1372.1	1416.9	1468.8
17.5°	1207.4	1192.2	1187.4	1185.3	1187.4	1192.2	1207.4	1216.4	1234.1	1257.7	1289.0
20°	1121.4	1107.4	1105.1	1103.6	1105.1	1107.4	1121.4	1132.2	1146.1	1171.6	1204.2
22.5°	1061.9	1047.3	1041.3	1036.6	1041.3	1047.3	1061.9	1070.3	1083.0	1102.9	1124.9
25°	960.4	954.9	951.9	950.3	951.9	954.9	960.4	968.2	980.5	1007.5	1030.8
27.5°	881.0	869.1	866.8	862.7	866.8	869.1	881.0	894.7	907.6	919.8	940.6
30°	835.8	831.9	826.5	821.8	826.5	831.9	835.8	842.7	851.2	872.1	892.3
32.5°	782.5	779.3	774.5	772.3	774.5	779.3	782.5	791.9	809.8	822.6	837.2
35°	723.6	712.8	708.1	701.1	708.1	712.8	723.6	731.3	738.3	749.1	775.4
37.5°	661.2	655.5	648.9	651.3	648.9	655.5	661.2	664.5	679.1	694.2	705.6
40°	612.9	609.0	607.5	606.7	607.5	609.0	612.9	623.0	640.8	647.7	664.8
42.5°	574.5	563.8	559.8	559.7	559.8	563.8	574.5	585.8	596.8	608.1	625.7
45°	516.1	506.1	499.2	499.9	499.2	506.1	516.1	520.1	529.4	551.8	561.8
47.5°	456.5	456.2	451.8	453.1	451.8	456.2	456.5	463.1	475.0	488.8	504.8
50°	428.0	423.3	420.2	421.0	420.2	423.3	428.0	433.3	440.3	447.3	472.0
52.5°	400.7	396.7	394.3	397.5	394.3	396.7	400.7	403.6	408.8	415.8	432.4
55°	356.0	351.3	350.5	349.8	350.5	351.3	356.0	359.8	366.1	371.4	379.2
57.5°	306.0	302.9	298.2	296.2	298.2	302.9	306.0	311.7	319.1	326.3	334.3
60°	270.0	263.9	256.1	255.4	256.1	263.9	270.0	280.1	283.3	294.1	303.4
62.5°	237.2	236.0	234.5	234.3	234.5	236.0	237.2	240.5	244.9	260.6	271.8
65°	208.1	207.4	208.1	208.9	208.1	207.4	208.1	209.7	210.5	212.1	216.7
67.5°	181.4	180.0	178.6	179.3	178.6	180.0	181.4	181.7	183.9	184.8	188.0
70°	161.0	160.2	159.5	159.5	159.5	160.2	161.0	162.5	164.1	165.6	169.5
72.5°	141.2	141.0	140.3	139.6	140.3	141.0	141.2	143.9	144.9	146.4	149.1
75°	113.0	111.4	111.4	111.4	111.4	111.4	113.0	113.7	114.5	116.8	118.4
77.5°	86.0	85.2	84.5	83.9	84.5	85.2	86.0	86.2	87.5	88.0	89.6
80°	68.1	67.4	66.6	66.6	66.6	67.4	68.1	68.9	68.9	71.2	70.4
82.5°	52.0	51.2	51.1	50.5	51.1	51.2	52.0	52.1	52.1	53.8	53.7
85°	27.9	28.7	27.9	29.4	27.9	28.7	27.9	27.1	27.9	29.4	29.4
87.5°	10.7	10.2	10.8	10.3	10.8	10.2	10.7	10.7	11.2	11.1	11.0
90°	13.5	13.7	14.0	14.2	14.0	13.7	13.5	13.3	12.9	12.3	11.7
92.5°	13.8	13.9	14.1	14.2	14.1	13.9	13.8	13.6	13.4	13.1	12.8
95°	23.0	22.9	22.8	22.6	22.8	22.9	23.0	23.1	22.9	22.3	21.7
97.5°	29.8	30.0	30.1	30.3	30.1	30.0	29.8	29.7	29.4	28.9	28.5
100°	34.6	34.8	35.0	35.3	35.0	34.8	34.6	34.3	33.8	32.8	31.9
102.5°	36.9	37.2	37.5	37.9	37.5	37.2	36.9	36.6	35.7	34.5	33.3
105°	38.7	39.1	39.6	40.1	39.6	39.1	38.7	38.2	37.3	36.1	34.7
107.5°	39.8	40.3	40.7	41.2	40.7	40.3	39.8	39.4	39.8	41.1	42.4
110°	40.2	40.7	41.2	41.6	41.2	40.7	40.2	39.8	45.3	57.1	68.8



TEST NUMBER: P331741-840

CATALOG NUMBER: SA2XXRDIP-C1005D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	40.9	41.3	41.7	42.0	41.7	41.3	40.9	40.6	61.7	104.4	147.1
115°	68.5	60.1	51.6	43.2	51.6	60.1	68.5	77.0	108.3	162.5	216.7
117.5°	259.5	231.9	204.2	176.4	204.2	231.9	259.5	287.3	307.7	320.8	334.0
120°	368.9	353.1	337.3	321.4	337.3	353.1	368.9	384.8	391.9	390.5	389.1
122.5°	410.4	407.3	404.2	401.1	404.2	407.3	410.4	413.4	414.5	413.7	412.8
125°	449.6	449.9	450.3	450.6	450.3	449.9	449.6	449.2	448.6	447.8	447.0
127.5°	481.6	481.7	481.7	481.8	481.7	481.7	481.6	481.5	480.9	479.7	478.5
130°	501.5	501.4	501.3	501.2	501.3	501.4	501.5	501.7	501.1	499.8	498.5
132.5°	520.5	520.4	520.3	520.2	520.3	520.4	520.5	520.6	520.2	519.1	518.0
135°	548.3	548.1	547.9	547.5	547.9	548.1	548.3	548.6	548.1	546.8	545.7
137.5°	573.7	573.3	573.0	572.6	573.0	573.3	573.7	574.1	573.8	572.6	571.5
140°	589.9	589.4	588.8	588.1	588.8	589.4	589.9	590.5	590.3	589.2	588.1
142.5°	605.1	604.5	603.9	603.3	603.9	604.5	605.1	605.7	605.5	604.5	603.6
145°	626.3	625.7	625.1	624.5	625.1	625.7	626.3	626.8	626.7	625.9	625.1
147.5°	644.7	644.2	643.7	643.2	643.7	644.2	644.7	645.1	645.1	644.5	643.9
150°	656.3	655.7	655.1	654.6	655.1	655.7	656.3	656.9	656.8	656.1	655.4
152.5°	666.6	665.8	665.0	664.3	665.0	665.8	666.6	667.3	667.4	666.7	666.0
155°	680.5	679.6	678.7	677.7	678.7	679.6	680.5	681.5	681.7	681.0	680.2
157.5°	692.8	691.9	690.9	690.0	690.9	691.9	692.8	693.8	693.8	693.0	692.2
160°	699.7	698.9	698.0	697.2	698.0	698.9	699.7	700.5	700.5	699.8	699.1
162.5°	706.2	705.2	704.2	703.2	704.2	705.2	706.2	707.2	707.3	706.5	705.7
165°	714.5	713.7	712.9	712.0	712.9	713.7	714.5	715.3	715.3	714.5	713.7
167.5°	720.7	719.7	718.6	717.6	718.6	719.7	720.7	721.9	722.0	721.1	720.2
170°	724.1	723.1	722.1	720.9	722.1	723.1	724.1	725.2	725.3	724.5	723.7
172.5°	726.7	725.6	724.6	723.5	724.6	725.6	726.7	727.7	727.8	727.0	726.2
175°	729.2	728.0	726.9	725.7	726.9	728.0	729.2	730.4	730.5	729.7	728.9
177.5°	729.6	728.7	727.9	727.1	727.9	728.7	729.6	730.4	730.5	729.9	729.2
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3



TEST NUMBER: P331741-840

CATALOG NUMBER: SA2XXRDIP-C1005D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2141.7	2150.4	2163.4	2170.8	2183.2	2191.3	2195.6	2203.6	2208.0	2223.5	2239.6
5°	2022.2	2034.5	2056.2	2076.3	2098.0	2120.4	2136.7	2155.3	2172.2	2201.6	2232.6
7.5°	1885.0	1902.2	1935.7	1967.8	2005.6	2037.3	2065.3	2097.0	2125.4	2167.5	2211.4
10°	1782.2	1812.4	1856.5	1886.7	1936.2	1967.9	2012.1	2046.9	2086.4	2142.0	2191.6
12.5°	1693.6	1730.1	1765.5	1807.5	1852.0	1904.8	1953.3	1998.0	2044.9	2102.4	2160.6
15°	1533.1	1585.7	1640.6	1683.1	1743.5	1799.3	1855.7	1916.1	1973.4	2042.3	2118.1
17.5°	1326.3	1387.3	1479.7	1552.6	1623.5	1679.3	1749.3	1822.3	1889.8	1972.9	2057.3
20°	1232.7	1277.7	1340.3	1438.7	1545.4	1605.0	1676.2	1756.7	1834.0	1924.6	2015.2
22.5°	1157.8	1197.8	1248.1	1324.7	1443.9	1525.1	1599.4	1681.1	1770.9	1863.3	1963.8
25°	1050.9	1078.7	1131.4	1193.3	1275.4	1409.2	1490.5	1572.5	1670.0	1769.1	1883.6
27.5°	970.6	995.6	1029.9	1088.9	1149.9	1246.1	1375.3	1464.8	1562.0	1673.4	1792.3
30°	909.3	938.7	976.6	1018.4	1085.0	1160.0	1289.3	1393.0	1488.9	1603.5	1730.4
32.5°	864.7	888.0	920.3	962.7	1018.1	1090.0	1193.3	1319.3	1412.8	1533.5	1666.0
35°	791.6	818.8	845.1	885.3	930.2	995.9	1074.1	1208.8	1301.6	1420.8	1553.9
37.5°	731.4	748.0	777.1	809.0	856.4	905.4	973.2	1094.0	1194.4	1311.4	1447.6
40°	685.6	706.5	728.2	763.8	802.5	849.7	916.3	1006.0	1121.4	1235.9	1369.0
42.5°	641.1	667.5	690.4	714.3	756.7	803.9	858.1	934.2	1052.0	1160.3	1289.7
45°	587.3	604.4	628.3	654.7	689.5	729.7	777.7	844.2	957.3	1050.9	1172.5
47.5°	524.8	549.8	565.4	591.1	624.2	662.6	707.2	764.8	856.2	943.9	1056.6
50°	482.1	507.7	530.1	553.3	582.7	619.9	657.0	712.8	786.3	878.4	983.6
52.5°	445.6	468.1	489.9	513.1	541.9	575.9	611.2	660.1	723.1	807.8	909.9
55°	395.5	409.4	431.8	455.0	480.6	513.1	547.1	588.1	642.3	713.5	796.3
57.5°	344.1	360.1	378.0	401.3	427.2	452.1	482.7	519.9	562.6	627.0	697.9
60°	315.0	327.3	342.0	366.1	390.0	412.4	441.9	472.8	513.1	568.8	629.1
62.5°	282.8	294.6	308.0	328.9	352.2	372.8	398.5	431.3	465.4	516.1	569.1
65°	229.0	246.1	259.2	277.8	297.2	318.8	338.9	365.3	395.5	435.7	482.9
67.5°	190.0	198.5	210.8	227.6	247.5	266.1	285.1	305.7	331.8	362.9	400.4
70°	172.6	175.7	178.0	194.2	212.8	231.4	249.2	268.5	290.9	316.5	349.0
72.5°	152.2	155.2	158.1	165.1	180.0	198.5	217.0	231.4	252.6	273.8	300.1
75°	120.7	125.3	127.6	131.6	136.9	149.4	166.4	180.3	192.7	208.9	229.8
77.5°	91.9	94.5	97.0	101.1	104.5	110.2	119.8	132.3	143.9	153.4	167.7
80°	72.7	73.5	76.6	78.2	82.8	86.6	91.3	101.4	113.0	116.8	126.9
82.5°	54.8	55.5	58.1	59.6	61.8	65.0	70.9	73.5	82.6	87.8	94.1
85°	30.2	29.4	31.7	31.7	33.3	34.8	36.4	40.2	42.5	48.8	50.3
87.5°	11.5	11.4	11.8	11.6	11.4	12.5	12.9	13.2	14.2	15.9	18.1
90°	11.1	10.5	9.6	8.7	7.8	6.8	5.7	4.3	3.1	1.8	0.5
92.5°	12.5	12.2	11.7	11.3	10.8	10.4	10.2	10.3	10.4	10.5	10.6
95°	21.1	20.6	19.7	18.9	18.1	17.3	18.8	22.6	26.6	30.4	34.2
97.5°	28.0	27.5	25.7	23.7	21.8	19.9	24.4	35.3	46.3	57.1	68.0
100°	31.0	30.0	28.1	26.1	24.0	22.1	29.1	45.1	61.2	77.3	93.3
102.5°	32.1	30.9	47.6	64.2	80.9	97.5	107.6	110.9	114.3	117.8	121.1
105°	33.4	32.1	64.1	96.1	128.1	160.1	174.3	170.8	167.2	163.7	160.2
107.5°	43.7	45.0	83.3	121.7	160.1	198.3	216.1	213.3	210.5	207.6	204.8
110°	80.5	92.2	126.0	160.0	193.8	227.6	243.3	240.9	238.4	235.9	233.5



TEST NUMBER: P331741-840

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	189.9	232.7	241.0	249.3	257.7	266.1	269.1	267.0	264.8	262.7	260.4
115°	270.9	325.2	322.2	319.3	316.4	313.5	311.0	309.0	307.0	305.0	303.1
117.5°	347.1	360.1	358.2	356.2	354.2	352.1	350.0	347.8	345.6	343.4	341.1
120°	387.7	386.3	384.2	382.1	380.0	377.9	376.0	374.2	372.4	370.6	368.9
122.5°	412.0	411.2	408.9	406.6	404.2	402.0	399.9	398.1	396.3	394.4	392.5
125°	446.2	445.4	443.1	440.9	438.7	436.5	434.5	433.0	431.5	430.0	428.5
127.5°	477.3	476.2	474.4	472.8	471.1	469.5	467.8	466.1	464.4	462.7	461.0
130°	497.3	495.9	494.6	493.3	492.1	490.8	489.2	487.4	485.4	483.5	481.7
132.5°	516.8	515.7	514.4	513.2	511.9	510.6	509.2	507.6	505.9	504.3	502.8
135°	544.5	543.3	542.3	541.3	540.2	539.2	537.7	535.8	533.9	532.1	530.2
137.5°	570.4	569.2	567.9	566.8	565.6	564.4	563.1	561.8	560.5	559.2	558.0
140°	587.1	586.0	584.7	583.5	582.2	580.9	579.8	578.9	577.9	576.9	576.0
142.5°	602.6	601.7	600.2	598.6	597.2	595.7	594.6	593.7	592.9	592.1	591.2
145°	624.3	623.5	621.5	619.5	617.5	615.5	614.6	614.7	614.8	614.9	615.0
147.5°	643.3	642.7	640.7	638.7	636.7	634.8	634.0	634.5	634.9	635.3	635.8
150°	654.7	654.0	652.2	650.3	648.4	646.5	646.0	646.8	647.6	648.4	649.2
152.5°	665.3	664.6	662.8	661.1	659.2	657.4	657.0	657.9	658.8	659.7	660.7
155°	679.5	678.8	677.4	676.0	674.6	673.2	673.0	674.1	675.1	676.2	677.2
157.5°	691.4	690.6	689.6	688.6	687.6	686.7	686.6	687.5	688.4	689.3	690.1
160°	698.5	697.8	697.1	696.4	695.7	695.0	695.0	695.7	696.4	697.1	697.8
162.5°	704.9	704.1	703.5	702.9	702.3	701.7	701.8	702.4	703.1	703.8	704.5
165°	712.9	712.0	711.7	711.2	710.9	710.6	710.7	711.4	712.2	712.9	713.6
167.5°	719.4	718.6	718.3	718.0	717.6	717.3	717.5	718.2	718.9	719.6	720.3
170°	722.9	722.1	721.8	721.5	721.3	721.0	721.3	722.1	722.8	723.5	724.1
172.5°	725.4	724.6	724.3	724.1	723.9	723.6	723.9	724.6	725.3	726.0	726.7
175°	728.1	727.3	727.0	726.8	726.6	726.4	726.6	727.5	728.3	729.1	729.9
177.5°	728.6	727.9	727.8	727.7	727.6	727.5	727.8	728.5	729.1	729.8	730.4
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3



TEST NUMBER: P331741-840

CATALOG NUMBER: SA2XXRDIP-C1005D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2240.2	2242.0	2254.4	2260.0	2271.2	2275.4	2280.5	2279.2	2279.2	2281.7	2299.0
5°	2245.0	2260.5	2283.7	2306.1	2327.8	2346.3	2358.7	2371.2	2375.8	2398.2	2418.3
7.5°	2237.0	2265.4	2303.8	2338.0	2379.0	2411.1	2437.7	2461.6	2478.1	2510.7	2544.2
10°	2226.4	2266.6	2310.0	2354.1	2410.5	2453.2	2496.5	2529.8	2540.6	2589.4	2617.3
12.5°	2205.3	2259.3	2314.3	2371.5	2426.7	2485.4	2533.0	2566.3	2604.3	2648.2	2699.6
15°	2173.8	2235.7	2307.6	2381.2	2460.1	2531.3	2582.4	2640.4	2682.2	2730.2	2775.1
17.5°	2128.5	2208.2	2299.7	2384.8	2476.1	2552.5	2622.8	2678.5	2708.0	2735.3	2742.0
20°	2092.5	2178.5	2286.0	2386.6	2477.9	2566.2	2635.7	2682.2	2690.0	2690.7	2649.7
22.5°	2053.6	2150.6	2263.1	2366.2	2475.5	2573.5	2627.8	2647.6	2616.9	2564.5	2485.1
25°	1981.9	2094.1	2224.8	2342.5	2461.6	2554.6	2573.1	2538.3	2430.7	2317.7	2174.5
27.5°	1904.2	2030.3	2170.5	2301.3	2428.2	2485.8	2445.7	2320.2	2126.5	1958.0	1753.9
30°	1847.2	1988.8	2126.6	2272.8	2390.5	2415.2	2323.2	2138.2	1912.2	1658.4	1454.9
32.5°	1782.2	1930.7	2082.0	2233.2	2331.7	2307.5	2155.4	1927.7	1662.7	1413.2	1220.8
35°	1689.3	1842.6	2005.9	2157.6	2220.2	2115.8	1888.2	1591.9	1321.0	1088.0	955.7
37.5°	1582.1	1749.0	1918.7	2058.0	2053.6	1879.5	1569.5	1263.5	1035.9	898.2	803.9
40°	1505.9	1674.7	1858.1	1975.7	1925.4	1698.6	1362.8	1074.1	907.8	797.9	729.0
42.5°	1432.9	1602.3	1784.4	1877.8	1790.4	1511.7	1177.1	950.9	813.6	727.9	672.1
45°	1308.6	1487.3	1656.1	1707.9	1551.6	1244.4	951.9	787.8	696.5	633.0	594.3
47.5°	1187.1	1362.9	1516.9	1517.8	1306.5	1009.2	802.9	681.8	603.8	554.7	526.5
50°	1112.8	1280.0	1409.2	1389.1	1149.2	897.7	718.1	613.7	548.7	510.8	481.3
52.5°	1029.3	1191.4	1303.3	1246.1	1016.1	789.9	642.0	554.2	500.4	467.4	441.1
55°	907.8	1051.7	1130.6	1043.9	828.8	657.0	542.5	473.6	433.3	405.5	383.0
57.5°	788.4	907.2	956.8	855.9	682.7	544.8	458.9	407.2	367.3	347.3	335.7
60°	713.5	814.9	849.7	738.3	593.6	476.7	406.3	358.3	328.9	315.8	304.2
62.5°	639.9	722.7	737.0	634.9	517.5	417.3	356.8	316.2	296.7	284.2	273.2
65°	530.9	590.5	583.5	501.5	409.4	331.2	287.1	262.4	247.6	229.8	210.5
67.5°	437.1	473.4	451.5	390.0	312.5	257.4	228.6	209.8	191.6	174.7	170.3
70°	377.7	398.5	375.4	318.8	256.1	215.9	192.7	170.3	159.5	155.5	148.6
72.5°	320.7	328.0	302.9	254.5	208.4	178.7	156.1	143.6	137.7	134.5	130.0
75°	240.7	235.3	213.6	175.7	144.7	124.6	117.6	113.0	109.1	106.0	103.7
77.5°	169.1	161.1	141.8	117.0	100.8	91.2	86.9	84.5	82.6	81.1	78.8
80°	126.9	121.5	102.2	83.6	76.6	72.0	69.7	66.6	66.6	65.0	62.7
82.5°	92.9	86.8	70.0	61.3	57.5	54.6	52.9	51.1	50.5	50.8	49.1
85°	48.8	39.5	34.8	33.3	31.0	29.4	30.2	28.7	28.7	28.7	27.9
87.5°	15.2	12.4	12.0	11.6	12.5	12.7	12.2	12.4	13.2	12.7	13.5
90°	1.8	3.1	4.3	5.7	6.8	7.8	8.7	9.6	10.5	11.1	11.7
92.5°	10.5	10.4	10.3	10.2	10.4	10.8	11.3	11.7	12.2	12.5	12.8
95°	30.4	26.6	22.6	18.8	17.3	18.1	18.9	19.7	20.6	21.1	21.7
97.5°	57.1	46.3	35.3	24.4	19.9	21.8	23.7	25.7	27.5	28.0	28.5
100°	77.3	61.2	45.1	29.1	22.1	24.0	26.1	28.1	30.0	31.0	31.9
102.5°	117.8	114.3	110.9	107.6	97.5	80.9	64.2	47.6	30.9	32.1	33.3
105°	163.7	167.2	170.8	174.3	160.1	128.1	96.1	64.1	32.1	33.4	34.7
107.5°	207.6	210.5	213.3	216.1	198.3	160.1	121.7	83.3	45.0	43.7	42.4
110°	235.9	238.4	240.9	243.3	227.6	193.8	160.0	126.0	92.2	80.5	68.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	262.7	264.8	267.0	269.1	266.1	257.7	249.3	241.0	232.7	189.9	147.1
115°	305.0	307.0	309.0	311.0	313.5	316.4	319.3	322.2	325.2	270.9	216.7
117.5°	343.4	345.6	347.8	350.0	352.1	354.2	356.2	358.2	360.1	347.1	334.0
120°	370.6	372.4	374.2	376.0	377.9	380.0	382.1	384.2	386.3	387.7	389.1
122.5°	394.4	396.3	398.1	399.9	402.0	404.2	406.6	408.9	411.2	412.0	412.8
125°	430.0	431.5	433.0	434.5	436.5	438.7	440.9	443.1	445.4	446.2	447.0
127.5°	462.7	464.4	466.1	467.8	469.5	471.1	472.8	474.4	476.2	477.3	478.5
130°	483.5	485.4	487.4	489.2	490.8	492.1	493.3	494.6	495.9	497.3	498.5
132.5°	504.3	505.9	507.6	509.2	510.6	511.9	513.2	514.4	515.7	516.8	518.0
135°	532.1	533.9	535.8	537.7	539.2	540.2	541.3	542.3	543.3	544.5	545.7
137.5°	559.2	560.5	561.8	563.1	564.4	565.6	566.8	567.9	569.2	570.4	571.5
140°	576.9	577.9	578.9	579.8	580.9	582.2	583.5	584.7	586.0	587.1	588.1
142.5°	592.1	592.9	593.7	594.6	595.7	597.2	598.6	600.2	601.7	602.6	603.6
145°	614.9	614.8	614.7	614.6	615.5	617.5	619.5	621.5	623.5	624.3	625.1
147.5°	635.3	634.9	634.5	634.0	634.8	636.7	638.7	640.7	642.7	643.3	643.9
150°	648.4	647.6	646.8	646.0	646.5	648.4	650.3	652.2	654.0	654.7	655.4
152.5°	659.7	658.8	657.9	657.0	657.4	659.2	661.1	662.8	664.6	665.3	666.0
155°	676.2	675.1	674.1	673.0	673.2	674.6	676.0	677.4	678.8	679.5	680.2
157.5°	689.3	688.4	687.5	686.6	686.7	687.6	688.6	689.6	690.6	691.4	692.2
160°	697.1	696.4	695.7	695.0	695.0	695.7	696.4	697.1	697.8	698.5	699.1
162.5°	703.8	703.1	702.4	701.8	701.7	702.3	702.9	703.5	704.1	704.9	705.7
165°	712.9	712.2	711.4	710.7	710.6	710.9	711.2	711.7	712.0	712.9	713.7
167.5°	719.6	718.9	718.2	717.5	717.3	717.6	718.0	718.3	718.6	719.4	720.2
170°	723.5	722.8	722.1	721.3	721.0	721.3	721.5	721.8	722.1	722.9	723.7
172.5°	726.0	725.3	724.6	723.9	723.6	723.9	724.1	724.3	724.6	725.4	726.2
175°	729.1	728.3	727.5	726.6	726.4	726.6	726.8	727.0	727.3	728.1	728.9
177.5°	729.8	729.1	728.5	727.8	727.5	727.6	727.7	727.8	727.9	728.6	729.2
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2305.2	2313.2	2316.9	2316.9	2321.3	2319.5	2317.5
5°	2437.7	2452.4	2455.5	2469.4	2479.4	2476.4	2477.9
7.5°	2569.4	2593.0	2616.5	2627.2	2628.8	2635.0	2637.4
10°	2650.5	2669.9	2706.2	2700.8	2727.8	2743.4	2717.8
12.5°	2728.5	2754.6	2779.9	2786.8	2802.2	2807.1	2797.0
15°	2799.0	2813.0	2814.6	2810.7	2815.3	2811.5	2796.7
17.5°	2733.1	2710.6	2664.7	2643.0	2625.9	2600.5	2590.3
20°	2624.1	2557.6	2480.2	2449.3	2412.9	2341.7	2358.7
22.5°	2388.9	2313.1	2235.7	2145.4	2102.1	2034.7	2030.6
25°	2022.9	1892.1	1748.2	1647.6	1588.7	1521.5	1492.0
27.5°	1572.8	1408.2	1290.2	1230.4	1176.1	1122.8	1120.5
30°	1276.9	1153.1	1061.8	1010.7	977.3	954.9	959.6
32.5°	1076.3	991.5	929.9	887.5	862.8	846.0	845.7
35°	879.9	821.8	782.3	764.6	746.8	734.4	735.2
37.5°	753.0	718.1	696.2	676.5	665.4	659.3	655.9
40°	687.9	659.3	642.3	630.7	621.4	612.9	611.4
42.5°	636.6	612.9	595.9	586.7	578.0	572.1	570.5
45°	564.9	545.5	530.1	520.1	516.1	510.8	510.8
47.5°	502.5	483.5	471.4	465.1	458.5	454.8	454.7
50°	460.5	445.8	434.9	431.0	425.7	423.3	422.5
52.5°	422.7	411.7	403.9	401.3	399.0	396.1	396.6
55°	371.4	365.3	362.1	359.8	356.0	351.3	354.5
57.5°	328.3	323.1	314.7	307.4	303.9	300.5	301.8
60°	297.9	287.1	276.3	267.7	265.4	258.4	258.4
62.5°	259.5	244.4	231.1	226.3	224.0	220.8	220.0
65°	199.7	193.5	190.4	187.2	185.7	185.7	184.2
67.5°	165.4	163.0	159.6	158.8	157.2	156.8	156.3
70°	146.2	143.2	141.6	140.9	139.3	140.1	137.7
72.5°	127.6	125.2	124.9	122.9	122.0	122.1	120.4
75°	100.6	100.6	99.9	99.1	97.6	96.7	97.6
77.5°	77.4	77.6	76.1	76.0	75.8	76.0	75.2
80°	61.9	62.7	61.9	61.1	60.4	61.1	60.4
82.5°	48.9	47.9	47.7	47.6	47.4	46.9	46.8
85°	27.9	28.7	27.9	27.1	27.1	27.1	27.9
87.5°	13.0	13.1	13.2	13.2	13.2	13.3	12.7
90°	12.3	12.9	13.3	13.5	13.7	14.0	14.2
92.5°	13.1	13.4	13.6	13.8	13.9	14.1	14.2
95°	22.3	22.9	23.1	23.0	22.9	22.8	22.6
97.5°	28.9	29.4	29.7	29.8	30.0	30.1	30.3
100°	32.8	33.8	34.3	34.6	34.8	35.0	35.3
102.5°	34.5	35.7	36.6	36.9	37.2	37.5	37.9
105°	36.1	37.3	38.2	38.7	39.1	39.6	40.1
107.5°	41.1	39.8	39.4	39.8	40.3	40.7	41.2
110°	57.1	45.3	39.8	40.2	40.7	41.2	41.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	104.4	61.7	40.6	40.9	41.3	41.7	42.0
115°	162.5	108.3	77.0	68.5	60.1	51.6	43.2
117.5°	320.8	307.7	287.3	259.5	231.9	204.2	176.4
120°	390.5	391.9	384.8	368.9	353.1	337.3	321.4
122.5°	413.7	414.5	413.4	410.4	407.3	404.2	401.1
125°	447.8	448.6	449.2	449.6	449.9	450.3	450.6
127.5°	479.7	480.9	481.5	481.6	481.7	481.7	481.8
130°	499.8	501.1	501.7	501.5	501.4	501.3	501.2
132.5°	519.1	520.2	520.6	520.5	520.4	520.3	520.2
135°	546.8	548.1	548.6	548.3	548.1	547.9	547.5
137.5°	572.6	573.8	574.1	573.7	573.3	573.0	572.6
140°	589.2	590.3	590.5	589.9	589.4	588.8	588.1
142.5°	604.5	605.5	605.7	605.1	604.5	603.9	603.3
145°	625.9	626.7	626.8	626.3	625.7	625.1	624.5
147.5°	644.5	645.1	645.1	644.7	644.2	643.7	643.2
150°	656.1	656.8	656.9	656.3	655.7	655.1	654.6
152.5°	666.7	667.4	667.3	666.6	665.8	665.0	664.3
155°	681.0	681.7	681.5	680.5	679.6	678.7	677.7
157.5°	693.0	693.8	693.8	692.8	691.9	690.9	690.0
160°	699.8	700.5	700.5	699.7	698.9	698.0	697.2
162.5°	706.5	707.3	707.2	706.2	705.2	704.2	703.2
165°	714.5	715.3	715.3	714.5	713.7	712.9	712.0
167.5°	721.1	722.0	721.9	720.7	719.7	718.6	717.6
170°	724.5	725.3	725.2	724.1	723.1	722.1	720.9
172.5°	727.0	727.8	727.7	726.7	725.6	724.6	723.5
175°	729.7	730.5	730.4	729.2	728.0	726.9	725.7
177.5°	729.9	730.5	730.4	729.6	728.7	727.9	727.1
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3

(END OF REPORT)