

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: P331735-840

Luminaire Tested: **SA2XXRDIP-C1005D330U840-4F0-1E-UDD-A**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331735-840  
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-C1005D330U840-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 330 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

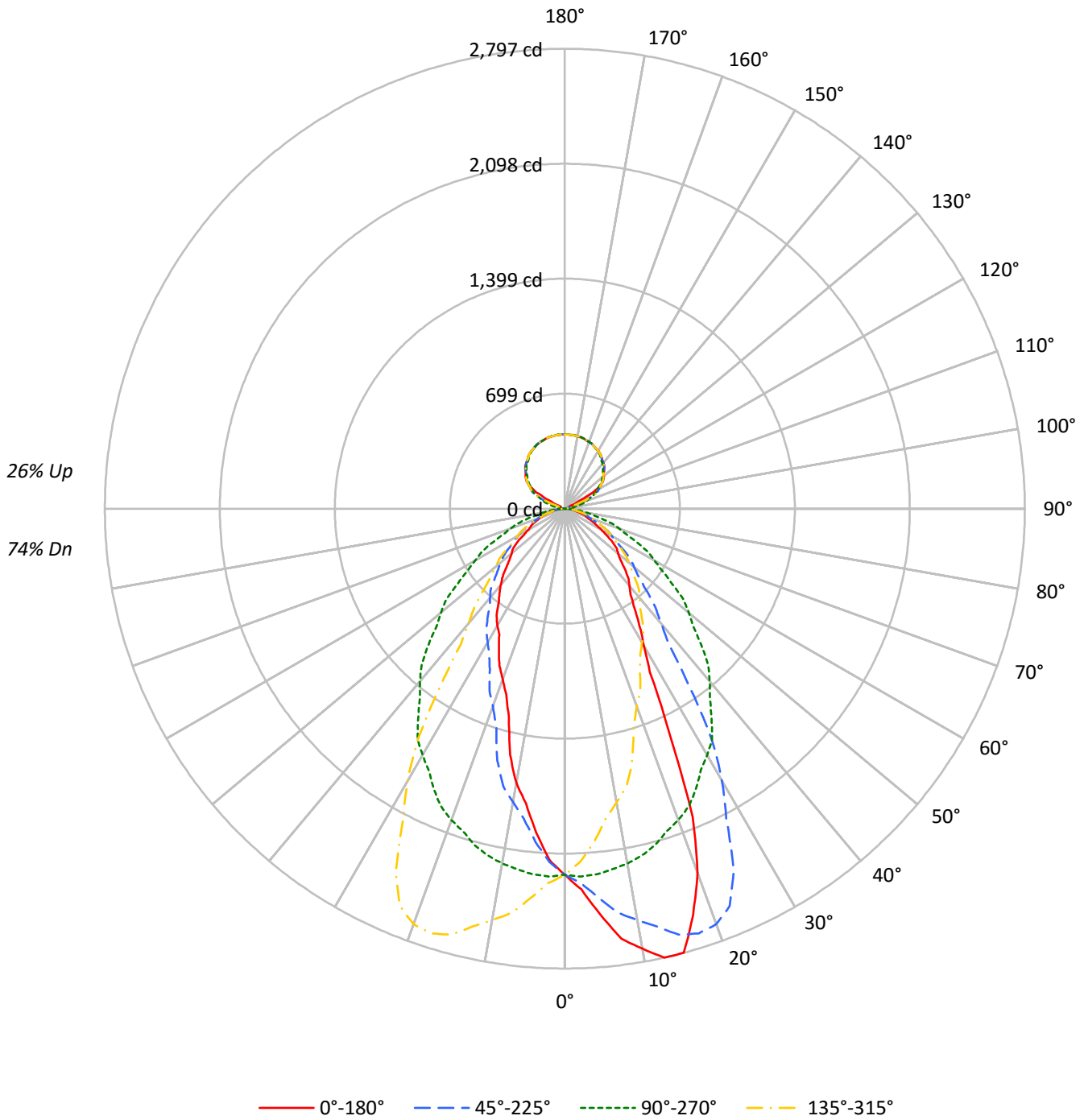
Lumens per Lamp: N/A  
Luminaire Lumens: 5172.6 lumens  
Efficiency: N/A  
Efficacy: 103.9 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 49.8  
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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	74				74
1	104	100	97	93	99	96	92	90	87	84	82	79	77	75	71	70	69				65	
2	96	89	83	78	91	85	80	76	78	74	70	71	67	65	64	62	60				56	
3	89	80	73	67	84	76	70	65	70	65	60	64	60	56	58	55	52				49	
4	82	71	64	58	78	68	62	56	63	57	53	58	53	50	53	49	46				44	
5	76	65	57	51	72	62	55	50	57	51	47	53	48	44	48	44	41				39	
6	70	59	51	45	67	56	49	44	52	46	42	48	43	39	44	40	37				35	
7	66	54	46	40	62	52	45	39	48	42	37	44	39	36	41	37	34				31	
8	61	49	42	36	58	48	41	36	44	38	34	41	36	32	38	34	31				29	
9	57	45	38	33	55	44	37	32	41	35	31	38	33	30	36	31	28				26	
10	54	42	35	30	52	41	34	30	38	32	28	36	31	27	33	29	26				24	

**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	4.1
10°-20°	588.3	11.4
20°-30°	758.1	14.7
30°-40°	720.4	13.9
40°-50°	617.1	11.9
50°-60°	470.0	9.1
60°-70°	297.1	5.7
70°-80°	148.4	2.9
80°-90°	39.7	0.8
90°-100°	15.1	0.3
100°-110°	55.2	1.1
110°-120°	147.6	2.9
120°-130°	243.6	4.7
130°-140°	259.0	5.0
140°-150°	240.8	4.7
150°-160°	193.6	3.7
160°-170°	124.7	2.4
170°-180°	42.9	0.8
0°-30°	1557.5	30.1
0°-40°	2277.9	44.0
0°-60°	3365.0	65.1
0°-90°	3850.2	74.4
90°-120°	217.8	4.2
90°-150°	961.2	18.6
90°-180°	1322.0	25.6
0°-180°	5172.6	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°	9	0	9	0	9	5
95°	14	21	14	21	14	13
105°	25	99	25	99	25	26
115°	27	188	27	188	27	67
125°	279	266	279	266	279	242
135°	339	328	339	328	339	261
145°	387	381	387	381	387	242
155°	420	420	420	420	420	194
165°	441	442	441	442	441	125
175°	450	452	450	452	450	43
180°	451	451	451	451	451	



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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°	11.7	12.2	12.2	12.2	12.2	12.1	12.0	12.6	11.9	12.4	11.7
90°	8.8	8.7	8.5	8.4	8.3	8.0	7.6	7.3	6.9	6.6	6.0
92.5°	8.8	8.7	8.7	8.6	8.5	8.3	8.2	8.0	7.8	7.6	7.3
95°	14.0	14.1	14.1	14.2	14.3	14.1	13.8	13.4	13.1	12.7	12.2
97.5°	18.8	18.7	18.6	18.5	18.4	18.2	17.9	17.7	17.4	17.1	15.9
100°	21.9	21.7	21.6	21.4	21.3	20.9	20.4	19.8	19.2	18.6	17.4
102.5°	23.4	23.2	23.0	22.8	22.6	22.1	21.4	20.6	19.9	19.1	29.5
105°	24.8	24.5	24.2	23.9	23.6	23.1	22.3	21.5	20.7	19.9	39.7
107.5°	25.5	25.2	24.9	24.6	24.3	24.6	25.4	26.3	27.1	27.9	51.6
110°	25.8	25.5	25.2	24.9	24.6	28.1	35.3	42.6	49.9	57.2	78.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	26.1	25.9	25.5	25.3	25.1	38.3	64.7	91.2	117.6	144.1	149.3
115°	26.8	32.0	37.3	42.4	47.7	67.1	100.7	134.3	167.8	201.5	199.7
117.5°	109.4	126.5	143.7	160.9	178.0	190.7	198.7	206.9	215.0	223.2	221.9
120°	199.1	208.9	218.7	228.5	238.3	242.8	242.0	241.1	240.2	239.3	238.0
122.5°	248.5	250.4	252.4	254.3	256.1	256.8	256.3	255.8	255.3	254.8	253.4
125°	279.1	278.9	278.7	278.5	278.3	277.9	277.4	276.9	276.4	275.9	274.5
127.5°	298.5	298.4	298.4	298.4	298.3	297.9	297.2	296.5	295.7	295.0	294.0
130°	310.5	310.6	310.6	310.7	310.8	310.4	309.6	308.8	308.0	307.3	306.5
132.5°	322.2	322.3	322.4	322.4	322.6	322.2	321.5	320.9	320.2	319.5	318.7
135°	339.2	339.4	339.5	339.7	339.8	339.5	338.8	338.1	337.4	336.7	336.0
137.5°	354.8	355.0	355.3	355.5	355.7	355.5	354.8	354.1	353.4	352.6	351.9
140°	364.4	364.8	365.2	365.5	365.9	365.7	365.1	364.4	363.8	363.0	362.3
142.5°	373.8	374.2	374.6	374.9	375.3	375.2	374.6	374.0	373.3	372.7	371.8
145°	386.9	387.3	387.7	388.0	388.4	388.3	387.8	387.3	386.8	386.3	385.1
147.5°	398.5	398.8	399.1	399.4	399.7	399.7	399.3	398.9	398.5	398.2	397.0
150°	405.6	405.9	406.3	406.7	407.0	407.0	406.5	406.1	405.7	405.3	404.0
152.5°	411.5	412.0	412.5	412.9	413.4	413.4	413.0	412.6	412.1	411.7	410.6
155°	419.9	420.5	421.1	421.6	422.2	422.3	421.8	421.4	421.0	420.5	419.7
157.5°	427.6	428.1	428.7	429.2	429.8	429.8	429.4	428.9	428.4	427.9	427.3
160°	432.0	432.5	433.0	433.5	434.0	434.0	433.6	433.2	432.7	432.3	431.9
162.5°	435.7	436.3	436.9	437.5	438.2	438.2	437.7	437.2	436.8	436.3	435.9
165°	441.1	441.6	442.1	442.6	443.1	443.1	442.6	442.1	441.6	441.1	440.9
167.5°	444.5	445.2	445.9	446.6	447.2	447.3	446.8	446.3	445.8	445.2	445.0
170°	446.7	447.4	448.0	448.7	449.3	449.4	448.9	448.4	447.9	447.4	447.2
172.5°	448.3	448.9	449.6	450.2	450.9	450.9	450.4	449.9	449.4	448.9	448.8
175°	449.6	450.3	451.1	451.8	452.5	452.6	452.1	451.6	451.1	450.6	450.5
177.5°	450.5	451.0	451.5	452.0	452.5	452.6	452.2	451.8	451.4	451.0	450.9
180°	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2



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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°	11.6	12.1	12.0	11.2	11.7	12.1	15.0	18.0	15.7	14.0	12.9
90°	5.4	4.7	4.2	3.5	2.7	1.9	1.1	0.3	1.1	1.9	2.7
92.5°	7.0	6.7	6.5	6.3	6.4	6.5	6.6	6.6	6.6	6.5	6.4
95°	11.7	11.2	10.7	11.6	14.0	16.5	18.8	21.2	18.8	16.5	14.0
97.5°	14.6	13.5	12.3	15.1	21.9	28.6	35.3	42.1	35.3	28.6	21.9
100°	16.2	14.9	13.6	18.1	28.0	37.9	47.9	57.8	47.9	37.9	28.0
102.5°	39.8	50.1	60.4	66.7	68.8	70.8	72.9	75.0	72.9	70.8	68.8
105°	59.6	79.4	99.2	108.0	105.8	103.6	101.4	99.3	101.4	103.6	105.8
107.5°	75.4	99.2	122.9	133.9	132.2	130.4	128.7	126.8	128.7	130.4	132.2
110°	99.1	120.1	141.0	150.8	149.3	147.7	146.1	144.6	146.1	147.7	149.3





TEST NUMBER: P331735-840

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	154.5	159.7	164.8	166.7	165.4	164.1	162.7	161.4	162.7	164.1	165.4
115°	197.8	196.0	194.2	192.7	191.5	190.3	188.9	187.7	188.9	190.3	191.5
117.5°	220.7	219.4	218.1	216.8	215.5	214.1	212.7	211.4	212.7	214.1	215.5
120°	236.7	235.4	234.1	232.9	231.9	230.8	229.6	228.5	229.6	230.8	231.9
122.5°	251.9	250.4	249.0	247.8	246.6	245.5	244.4	243.2	244.4	245.5	246.6
125°	273.2	271.8	270.4	269.2	268.3	267.3	266.4	265.5	266.4	267.3	268.3
127.5°	293.0	291.9	290.8	289.8	288.8	287.7	286.7	285.6	286.7	287.7	288.8
130°	305.7	304.9	304.1	303.1	301.9	300.7	299.6	298.4	299.6	300.7	301.9
132.5°	317.9	317.1	316.3	315.5	314.5	313.5	312.5	311.5	312.5	313.5	314.5
135°	335.4	334.7	334.1	333.2	331.9	330.8	329.6	328.5	329.6	330.8	331.9
137.5°	351.1	350.4	349.7	348.9	348.1	347.3	346.5	345.7	346.5	347.3	348.1
140°	361.5	360.7	359.9	359.2	358.6	358.0	357.5	356.9	357.5	358.0	358.6
142.5°	370.9	370.0	369.1	368.4	367.9	367.3	366.8	366.3	366.8	367.3	367.9
145°	383.8	382.5	381.3	380.7	380.8	380.9	381.0	381.0	381.0	380.9	380.8
147.5°	395.8	394.5	393.2	392.8	393.0	393.3	393.6	393.9	393.6	393.3	393.0
150°	402.9	401.7	400.6	400.2	400.7	401.2	401.7	402.2	401.7	401.2	400.7
152.5°	409.5	408.4	407.3	407.1	407.6	408.2	408.8	409.3	408.8	408.2	407.6
155°	418.8	418.0	417.1	417.0	417.6	418.3	418.9	419.6	418.9	418.3	417.6
157.5°	426.7	426.1	425.5	425.4	426.0	426.5	427.1	427.6	427.1	426.5	426.0
160°	431.4	431.0	430.6	430.6	431.0	431.4	431.9	432.3	431.9	431.4	431.0
162.5°	435.5	435.0	434.7	434.7	435.2	435.7	436.1	436.5	436.1	435.7	435.2
165°	440.7	440.5	440.3	440.4	440.8	441.2	441.7	442.1	441.7	441.2	440.8
167.5°	444.8	444.6	444.4	444.5	444.9	445.5	445.9	446.3	445.9	445.5	444.9
170°	447.1	446.9	446.8	446.9	447.4	447.8	448.2	448.7	448.2	447.8	447.4
172.5°	448.6	448.5	448.3	448.5	448.9	449.3	449.8	450.2	449.8	449.3	448.9
175°	450.3	450.2	450.0	450.2	450.7	451.2	451.7	452.2	451.7	451.2	450.7
177.5°	450.9	450.8	450.8	450.9	451.3	451.7	452.1	452.5	452.1	451.7	451.3
180°	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2



TEST NUMBER: P331735-840

CATALOG NUMBER: SA2XXRDIP-C1005D330U840-4F0-1E-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°	12.4	12.0	10.9	11.0	11.1	10.6	10.7	10.1	10.2	10.3	9.7
90°	3.5	4.2	4.7	5.4	6.0	6.6	6.9	7.3	7.6	8.0	8.3
92.5°	6.3	6.5	6.7	7.0	7.3	7.6	7.8	8.0	8.2	8.3	8.5
95°	11.6	10.7	11.2	11.7	12.2	12.7	13.1	13.4	13.8	14.1	14.3
97.5°	15.1	12.3	13.5	14.6	15.9	17.1	17.4	17.7	17.9	18.2	18.4
100°	18.1	13.6	14.9	16.2	17.4	18.6	19.2	19.8	20.4	20.9	21.3
102.5°	66.7	60.4	50.1	39.8	29.5	19.1	19.9	20.6	21.4	22.1	22.6
105°	108.0	99.2	79.4	59.6	39.7	19.9	20.7	21.5	22.3	23.1	23.6
107.5°	133.9	122.9	99.2	75.4	51.6	27.9	27.1	26.3	25.4	24.6	24.3
110°	150.8	141.0	120.1	99.1	78.1	57.2	49.9	42.6	35.3	28.1	24.6



TEST NUMBER: P331735-840

CATALOG NUMBER: SA2XXRDIP-C1005D330U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	166.7	164.8	159.7	154.5	149.3	144.1	117.6	91.2	64.7	38.3	25.1
115°	192.7	194.2	196.0	197.8	199.7	201.5	167.8	134.3	100.7	67.1	47.7
117.5°	216.8	218.1	219.4	220.7	221.9	223.2	215.0	206.9	198.7	190.7	178.0
120°	232.9	234.1	235.4	236.7	238.0	239.3	240.2	241.1	242.0	242.8	238.3
122.5°	247.8	249.0	250.4	251.9	253.4	254.8	255.3	255.8	256.3	256.8	256.1
125°	269.2	270.4	271.8	273.2	274.5	275.9	276.4	276.9	277.4	277.9	278.3
127.5°	289.8	290.8	291.9	293.0	294.0	295.0	295.7	296.5	297.2	297.9	298.3
130°	303.1	304.1	304.9	305.7	306.5	307.3	308.0	308.8	309.6	310.4	310.8
132.5°	315.5	316.3	317.1	317.9	318.7	319.5	320.2	320.9	321.5	322.2	322.6
135°	333.2	334.1	334.7	335.4	336.0	336.7	337.4	338.1	338.8	339.5	339.8
137.5°	348.9	349.7	350.4	351.1	351.9	352.6	353.4	354.1	354.8	355.5	355.7
140°	359.2	359.9	360.7	361.5	362.3	363.0	363.8	364.4	365.1	365.7	365.9
142.5°	368.4	369.1	370.0	370.9	371.8	372.7	373.3	374.0	374.6	375.2	375.3
145°	380.7	381.3	382.5	383.8	385.1	386.3	386.8	387.3	387.8	388.3	388.4
147.5°	392.8	393.2	394.5	395.8	397.0	398.2	398.5	398.9	399.3	399.7	399.7
150°	400.2	400.6	401.7	402.9	404.0	405.3	405.7	406.1	406.5	407.0	407.0
152.5°	407.1	407.3	408.4	409.5	410.6	411.7	412.1	412.6	413.0	413.4	413.4
155°	417.0	417.1	418.0	418.8	419.7	420.5	421.0	421.4	421.8	422.3	422.2
157.5°	425.4	425.5	426.1	426.7	427.3	427.9	428.4	428.9	429.4	429.8	429.8
160°	430.6	430.6	431.0	431.4	431.9	432.3	432.7	433.2	433.6	434.0	434.0
162.5°	434.7	434.7	435.0	435.5	435.9	436.3	436.8	437.2	437.7	438.2	438.2
165°	440.4	440.3	440.5	440.7	440.9	441.1	441.6	442.1	442.6	443.1	443.1
167.5°	444.5	444.4	444.6	444.8	445.0	445.2	445.8	446.3	446.8	447.3	447.2
170°	446.9	446.8	446.9	447.1	447.2	447.4	447.9	448.4	448.9	449.4	449.3
172.5°	448.5	448.3	448.5	448.6	448.8	448.9	449.4	449.9	450.4	450.9	450.9
175°	450.2	450.0	450.2	450.3	450.5	450.6	451.1	451.6	452.1	452.6	452.5
177.5°	450.9	450.8	450.8	450.9	450.9	451.0	451.4	451.8	452.2	452.6	452.5
180°	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2



TEST NUMBER: P331735-840

CATALOG NUMBER: SA2XXRDIP-C1005D330U840-4F0-1E-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°	9.7	9.1	9.8	9.2	9.8	9.1	9.7	9.7	10.3	10.2	10.1
90°	8.4	8.5	8.7	8.8	8.7	8.5	8.4	8.3	8.0	7.6	7.3
92.5°	8.6	8.7	8.7	8.8	8.7	8.7	8.6	8.5	8.3	8.2	8.0
95°	14.2	14.1	14.1	14.0	14.1	14.1	14.2	14.3	14.1	13.8	13.4
97.5°	18.5	18.6	18.7	18.8	18.7	18.6	18.5	18.4	18.2	17.9	17.7
100°	21.4	21.6	21.7	21.9	21.7	21.6	21.4	21.3	20.9	20.4	19.8
102.5°	22.8	23.0	23.2	23.4	23.2	23.0	22.8	22.6	22.1	21.4	20.6
105°	23.9	24.2	24.5	24.8	24.5	24.2	23.9	23.6	23.1	22.3	21.5
107.5°	24.6	24.9	25.2	25.5	25.2	24.9	24.6	24.3	24.6	25.4	26.3
110°	24.9	25.2	25.5	25.8	25.5	25.2	24.9	24.6	28.1	35.3	42.6



TEST NUMBER: P331735-840

CATALOG NUMBER: SA2XXRDIP-C1005D330U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	25.3	25.5	25.9	26.1	25.9	25.5	25.3	25.1	38.3	64.7	91.2
115°	42.4	37.3	32.0	26.8	32.0	37.3	42.4	47.7	67.1	100.7	134.3
117.5°	160.9	143.7	126.5	109.4	126.5	143.7	160.9	178.0	190.7	198.7	206.9
120°	228.5	218.7	208.9	199.1	208.9	218.7	228.5	238.3	242.8	242.0	241.1
122.5°	254.3	252.4	250.4	248.5	250.4	252.4	254.3	256.1	256.8	256.3	255.8
125°	278.5	278.7	278.9	279.1	278.9	278.7	278.5	278.3	277.9	277.4	276.9
127.5°	298.4	298.4	298.4	298.5	298.4	298.4	298.4	298.3	297.9	297.2	296.5
130°	310.7	310.6	310.6	310.5	310.6	310.6	310.7	310.8	310.4	309.6	308.8
132.5°	322.4	322.4	322.3	322.2	322.3	322.4	322.4	322.6	322.2	321.5	320.9
135°	339.7	339.5	339.4	339.2	339.4	339.5	339.7	339.8	339.5	338.8	338.1
137.5°	355.5	355.3	355.0	354.8	355.0	355.3	355.5	355.7	355.5	354.8	354.1
140°	365.5	365.2	364.8	364.4	364.8	365.2	365.5	365.9	365.7	365.1	364.4
142.5°	374.9	374.6	374.2	373.8	374.2	374.6	374.9	375.3	375.2	374.6	374.0
145°	388.0	387.7	387.3	386.9	387.3	387.7	388.0	388.4	388.3	387.8	387.3
147.5°	399.4	399.1	398.8	398.5	398.8	399.1	399.4	399.7	399.7	399.3	398.9
150°	406.7	406.3	405.9	405.6	405.9	406.3	406.7	407.0	407.0	406.5	406.1
152.5°	412.9	412.5	412.0	411.5	412.0	412.5	412.9	413.4	413.4	413.0	412.6
155°	421.6	421.1	420.5	419.9	420.5	421.1	421.6	422.2	422.3	421.8	421.4
157.5°	429.2	428.7	428.1	427.6	428.1	428.7	429.2	429.8	429.8	429.4	428.9
160°	433.5	433.0	432.5	432.0	432.5	433.0	433.5	434.0	434.0	433.6	433.2
162.5°	437.5	436.9	436.3	435.7	436.3	436.9	437.5	438.2	438.2	437.7	437.2
165°	442.6	442.1	441.6	441.1	441.6	442.1	442.6	443.1	443.1	442.6	442.1
167.5°	446.6	445.9	445.2	444.5	445.2	445.9	446.6	447.2	447.3	446.8	446.3
170°	448.7	448.0	447.4	446.7	447.4	448.0	448.7	449.3	449.4	448.9	448.4
172.5°	450.2	449.6	448.9	448.3	448.9	449.6	450.2	450.9	450.9	450.4	449.9
175°	451.8	451.1	450.3	449.6	450.3	451.1	451.8	452.5	452.6	452.1	451.6
177.5°	452.0	451.5	451.0	450.5	451.0	451.5	452.0	452.5	452.6	452.2	451.8
180°	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2



TEST NUMBER: P331735-840

CATALOG NUMBER: SA2XXRDIP-C1005D330U840-4F0-1E-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°	10.7	10.6	11.1	11.0	10.9	12.0	12.4	12.9	14.0	15.7	18.0
90°	6.9	6.6	6.0	5.4	4.7	4.2	3.5	2.7	1.9	1.1	0.3
92.5°	7.8	7.6	7.3	7.0	6.7	6.5	6.3	6.4	6.5	6.6	6.6
95°	13.1	12.7	12.2	11.7	11.2	10.7	11.6	14.0	16.5	18.8	21.2
97.5°	17.4	17.1	15.9	14.6	13.5	12.3	15.1	21.9	28.6	35.3	42.1
100°	19.2	18.6	17.4	16.2	14.9	13.6	18.1	28.0	37.9	47.9	57.8
102.5°	19.9	19.1	29.5	39.8	50.1	60.4	66.7	68.8	70.8	72.9	75.0
105°	20.7	19.9	39.7	59.6	79.4	99.2	108.0	105.8	103.6	101.4	99.3
107.5°	27.1	27.9	51.6	75.4	99.2	122.9	133.9	132.2	130.4	128.7	126.8
110°	49.9	57.2	78.1	99.1	120.1	141.0	150.8	149.3	147.7	146.1	144.6



TEST NUMBER: P331735-840

CATALOG NUMBER: SA2XXRDIP-C1005D330U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	117.6	144.1	149.3	154.5	159.7	164.8	166.7	165.4	164.1	162.7	161.4
115°	167.8	201.5	199.7	197.8	196.0	194.2	192.7	191.5	190.3	188.9	187.7
117.5°	215.0	223.2	221.9	220.7	219.4	218.1	216.8	215.5	214.1	212.7	211.4
120°	240.2	239.3	238.0	236.7	235.4	234.1	232.9	231.9	230.8	229.6	228.5
122.5°	255.3	254.8	253.4	251.9	250.4	249.0	247.8	246.6	245.5	244.4	243.2
125°	276.4	275.9	274.5	273.2	271.8	270.4	269.2	268.3	267.3	266.4	265.5
127.5°	295.7	295.0	294.0	293.0	291.9	290.8	289.8	288.8	287.7	286.7	285.6
130°	308.0	307.3	306.5	305.7	304.9	304.1	303.1	301.9	300.7	299.6	298.4
132.5°	320.2	319.5	318.7	317.9	317.1	316.3	315.5	314.5	313.5	312.5	311.5
135°	337.4	336.7	336.0	335.4	334.7	334.1	333.2	331.9	330.8	329.6	328.5
137.5°	353.4	352.6	351.9	351.1	350.4	349.7	348.9	348.1	347.3	346.5	345.7
140°	363.8	363.0	362.3	361.5	360.7	359.9	359.2	358.6	358.0	357.5	356.9
142.5°	373.3	372.7	371.8	370.9	370.0	369.1	368.4	367.9	367.3	366.8	366.3
145°	386.8	386.3	385.1	383.8	382.5	381.3	380.7	380.8	380.9	381.0	381.0
147.5°	398.5	398.2	397.0	395.8	394.5	393.2	392.8	393.0	393.3	393.6	393.9
150°	405.7	405.3	404.0	402.9	401.7	400.6	400.2	400.7	401.2	401.7	402.2
152.5°	412.1	411.7	410.6	409.5	408.4	407.3	407.1	407.6	408.2	408.8	409.3
155°	421.0	420.5	419.7	418.8	418.0	417.1	417.0	417.6	418.3	418.9	419.6
157.5°	428.4	427.9	427.3	426.7	426.1	425.5	425.4	426.0	426.5	427.1	427.6
160°	432.7	432.3	431.9	431.4	431.0	430.6	430.6	431.0	431.4	431.9	432.3
162.5°	436.8	436.3	435.9	435.5	435.0	434.7	434.7	435.2	435.7	436.1	436.5
165°	441.6	441.1	440.9	440.7	440.5	440.3	440.4	440.8	441.2	441.7	442.1
167.5°	445.8	445.2	445.0	444.8	444.6	444.4	444.5	444.9	445.5	445.9	446.3
170°	447.9	447.4	447.2	447.1	446.9	446.8	446.9	447.4	447.8	448.2	448.7
172.5°	449.4	448.9	448.8	448.6	448.5	448.3	448.5	448.9	449.3	449.8	450.2
175°	451.1	450.6	450.5	450.3	450.2	450.0	450.2	450.7	451.2	451.7	452.2
177.5°	451.4	451.0	450.9	450.9	450.8	450.8	450.9	451.3	451.7	452.1	452.5
180°	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2



TEST NUMBER: P331735-840  
 CATALOG NUMBER: SA2XXRDIP-C1005D330U840-4F0-1E-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°	15.0	12.1	11.7	11.2	12.0	12.1	11.6	11.7	12.4	11.9	12.6
90°	1.1	1.9	2.7	3.5	4.2	4.7	5.4	6.0	6.6	6.9	7.3
92.5°	6.6	6.5	6.4	6.3	6.5	6.7	7.0	7.3	7.6	7.8	8.0
95°	18.8	16.5	14.0	11.6	10.7	11.2	11.7	12.2	12.7	13.1	13.4
97.5°	35.3	28.6	21.9	15.1	12.3	13.5	14.6	15.9	17.1	17.4	17.7
100°	47.9	37.9	28.0	18.1	13.6	14.9	16.2	17.4	18.6	19.2	19.8
102.5°	72.9	70.8	68.8	66.7	60.4	50.1	39.8	29.5	19.1	19.9	20.6
105°	101.4	103.6	105.8	108.0	99.2	79.4	59.6	39.7	19.9	20.7	21.5
107.5°	128.7	130.4	132.2	133.9	122.9	99.2	75.4	51.6	27.9	27.1	26.3
110°	146.1	147.7	149.3	150.8	141.0	120.1	99.1	78.1	57.2	49.9	42.6





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	162.7	164.1	165.4	166.7	164.8	159.7	154.5	149.3	144.1	117.6	91.2
115°	188.9	190.3	191.5	192.7	194.2	196.0	197.8	199.7	201.5	167.8	134.3
117.5°	212.7	214.1	215.5	216.8	218.1	219.4	220.7	221.9	223.2	215.0	206.9
120°	229.6	230.8	231.9	232.9	234.1	235.4	236.7	238.0	239.3	240.2	241.1
122.5°	244.4	245.5	246.6	247.8	249.0	250.4	251.9	253.4	254.8	255.3	255.8
125°	266.4	267.3	268.3	269.2	270.4	271.8	273.2	274.5	275.9	276.4	276.9
127.5°	286.7	287.7	288.8	289.8	290.8	291.9	293.0	294.0	295.0	295.7	296.5
130°	299.6	300.7	301.9	303.1	304.1	304.9	305.7	306.5	307.3	308.0	308.8
132.5°	312.5	313.5	314.5	315.5	316.3	317.1	317.9	318.7	319.5	320.2	320.9
135°	329.6	330.8	331.9	333.2	334.1	334.7	335.4	336.0	336.7	337.4	338.1
137.5°	346.5	347.3	348.1	348.9	349.7	350.4	351.1	351.9	352.6	353.4	354.1
140°	357.5	358.0	358.6	359.2	359.9	360.7	361.5	362.3	363.0	363.8	364.4
142.5°	366.8	367.3	367.9	368.4	369.1	370.0	370.9	371.8	372.7	373.3	374.0
145°	381.0	380.9	380.8	380.7	381.3	382.5	383.8	385.1	386.3	386.8	387.3
147.5°	393.6	393.3	393.0	392.8	393.2	394.5	395.8	397.0	398.2	398.5	398.9
150°	401.7	401.2	400.7	400.2	400.6	401.7	402.9	404.0	405.3	405.7	406.1
152.5°	408.8	408.2	407.6	407.1	407.3	408.4	409.5	410.6	411.7	412.1	412.6
155°	418.9	418.3	417.6	417.0	417.1	418.0	418.8	419.7	420.5	421.0	421.4
157.5°	427.1	426.5	426.0	425.4	425.5	426.1	426.7	427.3	427.9	428.4	428.9
160°	431.9	431.4	431.0	430.6	430.6	431.0	431.4	431.9	432.3	432.7	433.2
162.5°	436.1	435.7	435.2	434.7	434.7	435.0	435.5	435.9	436.3	436.8	437.2
165°	441.7	441.2	440.8	440.4	440.3	440.5	440.7	440.9	441.1	441.6	442.1
167.5°	445.9	445.5	444.9	444.5	444.4	444.6	444.8	445.0	445.2	445.8	446.3
170°	448.2	447.8	447.4	446.9	446.8	446.9	447.1	447.2	447.4	447.9	448.4
172.5°	449.8	449.3	448.9	448.5	448.3	448.5	448.6	448.8	448.9	449.4	449.9
175°	451.7	451.2	450.7	450.2	450.0	450.2	450.3	450.5	450.6	451.1	451.6
177.5°	452.1	451.7	451.3	450.9	450.8	450.8	450.9	450.9	451.0	451.4	451.8
180°	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2



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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°	12.0	12.1	12.2	12.2	12.2	12.2	11.7
90°	7.6	8.0	8.3	8.4	8.5	8.7	8.8
92.5°	8.2	8.3	8.5	8.6	8.7	8.7	8.8
95°	13.8	14.1	14.3	14.2	14.1	14.1	14.0
97.5°	17.9	18.2	18.4	18.5	18.6	18.7	18.8
100°	20.4	20.9	21.3	21.4	21.6	21.7	21.9
102.5°	21.4	22.1	22.6	22.8	23.0	23.2	23.4
105°	22.3	23.1	23.6	23.9	24.2	24.5	24.8
107.5°	25.4	24.6	24.3	24.6	24.9	25.2	25.5
110°	35.3	28.1	24.6	24.9	25.2	25.5	25.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	64.7	38.3	25.1	25.3	25.5	25.9	26.1
115°	100.7	67.1	47.7	42.4	37.3	32.0	26.8
117.5°	198.7	190.7	178.0	160.9	143.7	126.5	109.4
120°	242.0	242.8	238.3	228.5	218.7	208.9	199.1
122.5°	256.3	256.8	256.1	254.3	252.4	250.4	248.5
125°	277.4	277.9	278.3	278.5	278.7	278.9	279.1
127.5°	297.2	297.9	298.3	298.4	298.4	298.4	298.5
130°	309.6	310.4	310.8	310.7	310.6	310.6	310.5
132.5°	321.5	322.2	322.6	322.4	322.4	322.3	322.2
135°	338.8	339.5	339.8	339.7	339.5	339.4	339.2
137.5°	354.8	355.5	355.7	355.5	355.3	355.0	354.8
140°	365.1	365.7	365.9	365.5	365.2	364.8	364.4
142.5°	374.6	375.2	375.3	374.9	374.6	374.2	373.8
145°	387.8	388.3	388.4	388.0	387.7	387.3	386.9
147.5°	399.3	399.7	399.7	399.4	399.1	398.8	398.5
150°	406.5	407.0	407.0	406.7	406.3	405.9	405.6
152.5°	413.0	413.4	413.4	412.9	412.5	412.0	411.5
155°	421.8	422.3	422.2	421.6	421.1	420.5	419.9
157.5°	429.4	429.8	429.8	429.2	428.7	428.1	427.6
160°	433.6	434.0	434.0	433.5	433.0	432.5	432.0
162.5°	437.7	438.2	438.2	437.5	436.9	436.3	435.7
165°	442.6	443.1	443.1	442.6	442.1	441.6	441.1
167.5°	446.8	447.3	447.2	446.6	445.9	445.2	444.5
170°	448.9	449.4	449.3	448.7	448.0	447.4	446.7
172.5°	450.4	450.9	450.9	450.2	449.6	448.9	448.3
175°	452.1	452.6	452.5	451.8	451.1	450.3	449.6
177.5°	452.2	452.6	452.5	452.0	451.5	451.0	450.5
180°	451.2	451.2	451.2	451.2	451.2	451.2	451.2

(END OF REPORT)