

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: P331736-840

Luminaire Tested: **S122RDIP-S1005D330U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331736-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIP-S1005D330U840-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 330 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5033.0 lumens  
Efficiency: N/A  
Efficacy: 101.1 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

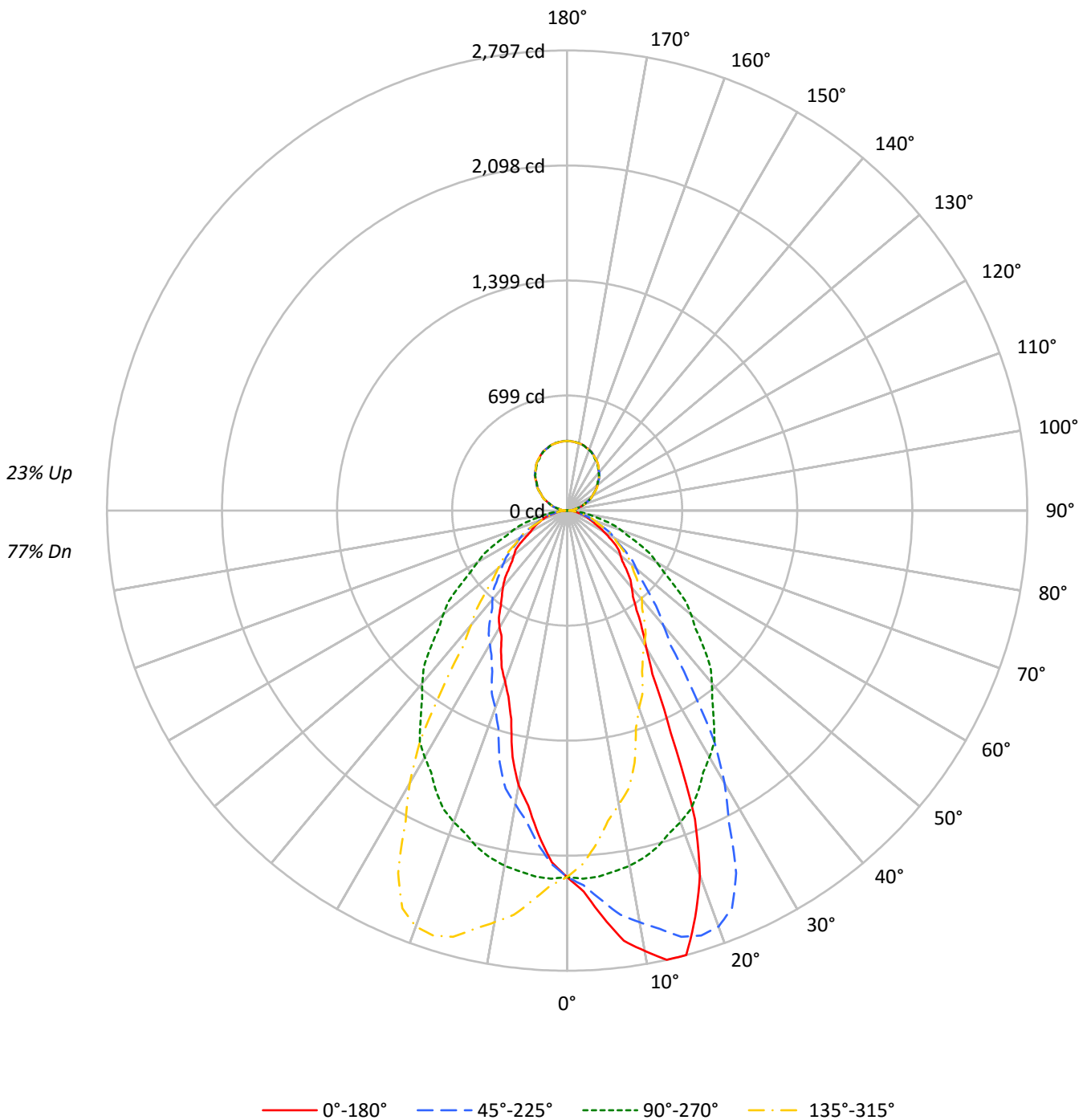
Input Watts (W): 49.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	108	108	108	98	98	98	89	89	89	80	80	80	80	80	80	77	
1	105	101	97	94	100	96	93	90	88	85	83	80	78	77	73	72	70	70	70	70	67	
2	97	90	84	79	92	86	81	76	79	74	71	72	69	66	66	63	61	61	61	61	58	
3	89	80	73	67	85	77	70	65	71	65	61	65	61	57	60	56	54	54	54	54	51	
4	82	72	64	58	78	69	62	57	64	58	54	59	54	50	54	50	47	47	47	47	45	
5	76	65	57	51	73	63	55	50	58	52	47	54	49	45	50	46	42	42	42	42	40	
6	71	59	51	46	67	57	50	44	53	47	42	49	44	40	46	41	38	38	38	38	36	
7	66	54	46	41	63	52	45	40	49	42	38	45	40	36	42	38	34	34	34	34	32	
8	62	50	42	37	59	48	41	36	45	39	35	42	37	33	39	35	31	31	31	31	29	
9	58	46	38	34	55	44	38	33	42	36	31	39	34	30	36	32	29	29	29	29	27	
10	54	43	35	31	52	41	35	30	39	33	29	36	31	28	34	30	27	27	27	27	25	

**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	4.2
10°-20°	588.3	11.7
20°-30°	758.1	15.1
30°-40°	720.4	14.3
40°-50°	617.1	12.3
50°-60°	470.0	9.3
60°-70°	297.1	5.9
70°-80°	148.4	2.9
80°-90°	40.3	0.8
90°-100°	26.8	0.5
100°-110°	83.2	1.7
110°-120°	142.2	2.8
120°-130°	187.0	3.7
130°-140°	209.9	4.2
140°-150°	205.8	4.1
150°-160°	172.7	3.4
160°-170°	114.5	2.3
170°-180°	40.0	0.8
0°-30°	1557.5	30.9
0°-40°	2277.9	45.3
0°-60°	3365.0	66.9
0°-90°	3850.8	76.5
90°-120°	252.2	5.0
90°-150°	855.0	17.0
90°-180°	1182.0	23.5
0°-180°	5033.0	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°	12	0	12	0	12	7
95°	22	19	22	19	22	25
105°	79	77	79	77	79	83
115°	143	143	143	143	143	141
125°	208	208	208	208	208	186
135°	272	269	272	269	272	209
145°	330	326	330	326	330	206
155°	376	373	376	373	376	173
165°	406	406	406	406	406	115
175°	421	422	421	422	421	40
180°	423	423	423	423	423	



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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°	12.3	12.9	12.9	12.9	12.9	12.9	12.9	13.5	13.0	13.6	12.6
90°	12.1	12.0	12.0	11.9	11.8	11.8	12.0	12.2	12.3	12.5	10.7
92.5°	11.5	11.5	11.5	11.5	11.5	11.5	11.4	11.4	11.4	11.3	10.9
95°	22.1	22.3	22.4	22.6	22.7	22.8	22.8	22.8	22.8	22.8	22.7
97.5°	38.3	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.1
100°	48.9	49.0	49.1	49.1	49.2	49.3	49.3	49.3	49.3	49.3	49.0
102.5°	60.9	61.0	61.0	61.1	61.2	61.2	61.1	61.1	61.0	60.9	60.6
105°	79.2	79.2	79.2	79.2	79.2	79.2	79.0	78.8	78.7	78.5	78.4
107.5°	96.4	96.8	97.3	97.6	98.0	98.1	98.1	98.0	97.9	97.9	97.9
110°	109.9	110.2	110.4	110.6	110.9	111.0	111.0	111.0	111.0	111.0	111.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	122.7	122.9	123.1	123.3	123.4	123.6	123.8	124.0	124.2	124.4	124.4
115°	142.7	143.0	143.2	143.4	143.7	143.8	143.9	144.0	144.1	144.1	144.3
117.5°	161.8	162.0	162.3	162.5	162.7	162.9	163.1	163.3	163.5	163.7	164.1
120°	175.2	175.4	175.6	175.9	176.1	176.2	176.2	176.2	176.2	176.2	176.9
122.5°	188.3	188.4	188.6	188.8	189.0	189.1	189.3	189.6	189.8	190.0	190.4
125°	208.3	208.4	208.5	208.6	208.6	208.8	209.0	209.3	209.5	209.7	210.1
127.5°	226.6	226.9	227.1	227.4	227.6	227.9	228.2	228.5	228.7	229.0	229.3
130°	239.7	240.0	240.3	240.8	241.1	241.3	241.5	241.6	241.8	241.9	242.1
132.5°	252.4	252.6	252.9	253.1	253.4	253.7	254.0	254.3	254.7	255.0	255.0
135°	271.9	272.2	272.4	272.6	272.9	273.0	273.1	273.2	273.2	273.3	273.2
137.5°	289.5	289.9	290.2	290.5	290.8	291.0	291.0	291.1	291.2	291.2	291.0
140°	301.8	302.2	302.5	302.8	303.1	303.3	303.3	303.3	303.3	303.3	302.9
142.5°	313.0	313.3	313.6	314.0	314.3	314.4	314.3	314.3	314.2	314.1	313.9
145°	329.6	330.0	330.3	330.6	330.9	331.0	330.9	330.9	330.8	330.7	330.2
147.5°	344.6	344.9	345.2	345.5	345.8	345.9	345.7	345.5	345.4	345.2	344.9
150°	354.3	354.6	354.8	355.0	355.3	355.3	355.0	354.8	354.6	354.3	354.0
152.5°	363.5	363.8	364.1	364.4	364.7	364.7	364.4	364.1	363.8	363.5	363.0
155°	375.7	376.0	376.2	376.4	376.7	376.6	376.2	375.8	375.4	375.0	374.8
157.5°	386.3	386.7	387.0	387.4	387.8	387.7	387.2	386.6	386.1	385.6	385.4
160°	392.8	393.1	393.4	393.7	394.0	394.0	393.5	393.0	392.5	392.1	392.0
162.5°	398.5	398.9	399.3	399.7	400.0	400.0	399.4	398.9	398.4	397.8	397.8
165°	406.1	406.4	406.8	407.2	407.6	407.5	407.0	406.4	405.9	405.3	405.3
167.5°	412.1	412.5	412.9	413.4	413.8	413.7	413.1	412.6	412.0	411.5	411.5
170°	415.3	415.8	416.3	416.8	417.2	417.2	416.6	416.1	415.5	415.0	415.1
172.5°	417.9	418.4	418.8	419.3	419.8	419.7	419.2	418.6	418.1	417.5	417.6
175°	420.6	421.1	421.6	422.1	422.5	422.5	421.9	421.4	420.8	420.3	420.4
177.5°	421.9	422.3	422.7	423.0	423.4	423.4	423.0	422.7	422.3	421.9	422.0
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8



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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°	12.3	12.6	12.2	11.3	11.8	12.2	15.1	18.0	15.8	14.0	13.0
90°	9.0	7.3	5.6	4.1	3.2	2.2	1.3	0.4	1.3	2.2	3.2
92.5°	10.5	10.1	9.7	9.2	8.5	7.8	7.1	6.4	7.1	7.8	8.5
95°	22.5	22.3	22.2	21.7	20.9	20.1	19.4	18.6	19.4	20.1	20.9
97.5°	37.8	37.5	37.2	36.7	36.0	35.2	34.6	33.9	34.6	35.2	36.0
100°	48.8	48.5	48.3	47.9	47.3	46.6	45.9	45.3	45.9	46.6	47.3
102.5°	60.3	60.0	59.8	59.3	58.8	58.3	57.8	57.3	57.8	58.3	58.8
105°	78.2	78.1	77.9	77.7	77.5	77.2	77.0	76.7	77.0	77.2	77.5
107.5°	97.9	97.9	97.9	97.7	97.4	96.9	96.6	96.2	96.6	96.9	97.4
110°	111.0	111.0	111.0	110.7	110.3	109.8	109.3	108.9	109.3	109.8	110.3





TEST NUMBER: P331736-840

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	124.5	124.5	124.6	124.4	123.9	123.5	123.0	122.5	123.0	123.5	123.9
115°	144.4	144.6	144.8	144.6	144.1	143.7	143.2	142.7	143.2	143.7	144.1
117.5°	164.6	165.0	165.5	165.4	164.7	164.1	163.5	162.8	163.5	164.1	164.7
120°	177.5	178.1	178.7	178.7	178.1	177.5	176.9	176.2	176.9	177.5	178.1
122.5°	190.9	191.3	191.8	191.6	190.8	190.1	189.2	188.5	189.2	190.1	190.8
125°	210.3	210.5	210.8	210.5	209.7	209.0	208.3	207.6	208.3	209.0	209.7
127.5°	229.6	229.9	230.1	229.8	228.9	228.1	227.2	226.3	227.2	228.1	228.9
130°	242.3	242.4	242.6	242.1	241.1	240.0	239.0	238.0	239.0	240.0	241.1
132.5°	255.0	254.9	254.9	254.5	253.6	252.8	252.0	251.2	252.0	252.8	253.6
135°	273.0	272.9	272.7	272.2	271.2	270.4	269.5	268.6	269.5	270.4	271.2
137.5°	290.8	290.6	290.4	290.0	289.3	288.5	287.8	287.1	287.8	288.5	289.3
140°	302.5	302.1	301.6	301.1	300.4	299.7	299.0	298.3	299.0	299.7	300.4
142.5°	313.6	313.3	313.1	312.6	311.8	311.1	310.4	309.7	310.4	311.1	311.8
145°	329.8	329.3	328.8	328.3	327.8	327.2	326.7	326.1	326.7	327.2	327.8
147.5°	344.6	344.2	343.9	343.4	342.7	342.0	341.4	340.7	341.4	342.0	342.7
150°	353.7	353.4	353.0	352.6	352.1	351.6	351.2	350.7	351.2	351.6	352.1
152.5°	362.6	362.2	361.9	361.4	361.0	360.5	360.0	359.6	360.0	360.5	361.0
155°	374.5	374.3	374.1	373.8	373.5	373.3	373.0	372.8	373.0	373.3	373.5
157.5°	385.3	385.2	385.0	384.9	384.7	384.5	384.4	384.2	384.4	384.5	384.7
160°	391.9	391.8	391.8	391.6	391.5	391.3	391.2	391.0	391.2	391.3	391.5
162.5°	397.7	397.6	397.5	397.5	397.4	397.4	397.4	397.3	397.4	397.4	397.4
165°	405.3	405.3	405.3	405.4	405.5	405.5	405.6	405.7	405.6	405.5	405.5
167.5°	411.5	411.5	411.6	411.7	411.9	412.2	412.4	412.6	412.4	412.2	411.9
170°	415.1	415.2	415.3	415.5	415.7	415.9	416.2	416.4	416.2	415.9	415.7
172.5°	417.7	417.8	417.8	418.0	418.2	418.5	418.7	418.9	418.7	418.5	418.2
175°	420.6	420.8	420.9	421.1	421.3	421.6	421.8	422.1	421.8	421.6	421.3
177.5°	422.2	422.3	422.4	422.6	422.8	422.9	423.1	423.3	423.1	422.9	422.8
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8



TEST NUMBER: P331736-840

CATALOG NUMBER: S122RDIP-S1005D330U840-4F0-1E-UDD-A1

**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°	12.6	12.2	11.3	11.7	12.0	11.8	11.7	11.1	11.1	11.0	10.4
90°	4.1	5.6	7.3	9.0	10.7	12.5	12.3	12.2	12.0	11.8	11.8
92.5°	9.2	9.7	10.1	10.5	10.9	11.3	11.4	11.4	11.4	11.5	11.5
95°	21.7	22.2	22.3	22.5	22.7	22.8	22.8	22.8	22.8	22.8	22.7
97.5°	36.7	37.2	37.5	37.8	38.1	38.4	38.4	38.4	38.4	38.4	38.4
100°	47.9	48.3	48.5	48.8	49.0	49.3	49.3	49.3	49.3	49.3	49.2
102.5°	59.3	59.8	60.0	60.3	60.6	60.9	61.0	61.1	61.1	61.2	61.2
105°	77.7	77.9	78.1	78.2	78.4	78.5	78.7	78.8	79.0	79.2	79.2
107.5°	97.7	97.9	97.9	97.9	97.9	97.9	97.9	98.0	98.1	98.1	98.0
110°	110.7	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0	110.9



TEST NUMBER: P331736-840

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	124.4	124.6	124.5	124.5	124.4	124.4	124.2	124.0	123.8	123.6	123.4
115°	144.6	144.8	144.6	144.4	144.3	144.1	144.1	144.0	143.9	143.8	143.7
117.5°	165.4	165.5	165.0	164.6	164.1	163.7	163.5	163.3	163.1	162.9	162.7
120°	178.7	178.7	178.1	177.5	176.9	176.2	176.2	176.2	176.2	176.2	176.1
122.5°	191.6	191.8	191.3	190.9	190.4	190.0	189.8	189.6	189.3	189.1	189.0
125°	210.5	210.8	210.5	210.3	210.1	209.7	209.5	209.3	209.0	208.8	208.6
127.5°	229.8	230.1	229.9	229.6	229.3	229.0	228.7	228.5	228.2	227.9	227.6
130°	242.1	242.6	242.4	242.3	242.1	241.9	241.8	241.6	241.5	241.3	241.1
132.5°	254.5	254.9	254.9	255.0	255.0	255.0	254.7	254.3	254.0	253.7	253.4
135°	272.2	272.7	272.9	273.0	273.2	273.3	273.2	273.2	273.1	273.0	272.9
137.5°	290.0	290.4	290.6	290.8	291.0	291.2	291.2	291.1	291.0	291.0	290.8
140°	301.1	301.6	302.1	302.5	302.9	303.3	303.3	303.3	303.3	303.3	303.1
142.5°	312.6	313.1	313.3	313.6	313.9	314.1	314.2	314.3	314.3	314.4	314.3
145°	328.3	328.8	329.3	329.8	330.2	330.7	330.8	330.9	330.9	331.0	330.9
147.5°	343.4	343.9	344.2	344.6	344.9	345.2	345.4	345.5	345.7	345.9	345.8
150°	352.6	353.0	353.4	353.7	354.0	354.3	354.6	354.8	355.0	355.3	355.3
152.5°	361.4	361.9	362.2	362.6	363.0	363.5	363.8	364.1	364.4	364.7	364.7
155°	373.8	374.1	374.3	374.5	374.8	375.0	375.4	375.8	376.2	376.6	376.7
157.5°	384.9	385.0	385.2	385.3	385.4	385.6	386.1	386.6	387.2	387.7	387.8
160°	391.6	391.8	391.8	391.9	392.0	392.1	392.5	393.0	393.5	394.0	394.0
162.5°	397.5	397.5	397.6	397.7	397.8	397.8	398.4	398.9	399.4	400.0	400.0
165°	405.4	405.3	405.3	405.3	405.3	405.3	405.9	406.4	407.0	407.5	407.6
167.5°	411.7	411.6	411.5	411.5	411.5	411.5	412.0	412.6	413.1	413.7	413.8
170°	415.5	415.3	415.2	415.1	415.1	415.0	415.5	416.1	416.6	417.2	417.2
172.5°	418.0	417.8	417.8	417.7	417.6	417.5	418.1	418.6	419.2	419.7	419.8
175°	421.1	420.9	420.8	420.6	420.4	420.3	420.8	421.4	421.9	422.5	422.5
177.5°	422.6	422.4	422.3	422.2	422.0	421.9	422.3	422.7	423.0	423.4	423.4
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8



TEST NUMBER: P331736-840

CATALOG NUMBER: S122RDIP-S1005D330U840-4F0-1E-UDD-A1

**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°	10.4	9.8	10.5	9.9	10.5	9.8	10.4	10.4	11.0	11.1	11.1
90°	11.9	12.0	12.0	12.1	12.0	12.0	11.9	11.8	11.8	12.0	12.2
92.5°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.4	11.4
95°	22.6	22.4	22.3	22.1	22.3	22.4	22.6	22.7	22.8	22.8	22.8
97.5°	38.4	38.4	38.4	38.3	38.4	38.4	38.4	38.4	38.4	38.4	38.4
100°	49.1	49.1	49.0	48.9	49.0	49.1	49.1	49.2	49.3	49.3	49.3
102.5°	61.1	61.0	61.0	60.9	61.0	61.0	61.1	61.2	61.2	61.1	61.1
105°	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.0	78.8
107.5°	97.6	97.3	96.8	96.4	96.8	97.3	97.6	98.0	98.1	98.1	98.0
110°	110.6	110.4	110.2	109.9	110.2	110.4	110.6	110.9	111.0	111.0	111.0



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	123.3	123.1	122.9	122.7	122.9	123.1	123.3	123.4	123.6	123.8	124.0
115°	143.4	143.2	143.0	142.7	143.0	143.2	143.4	143.7	143.8	143.9	144.0
117.5°	162.5	162.3	162.0	161.8	162.0	162.3	162.5	162.7	162.9	163.1	163.3
120°	175.9	175.6	175.4	175.2	175.4	175.6	175.9	176.1	176.2	176.2	176.2
122.5°	188.8	188.6	188.4	188.3	188.4	188.6	188.8	189.0	189.1	189.3	189.6
125°	208.6	208.5	208.4	208.3	208.4	208.5	208.6	208.6	208.8	209.0	209.3
127.5°	227.4	227.1	226.9	226.6	226.9	227.1	227.4	227.6	227.9	228.2	228.5
130°	240.8	240.3	240.0	239.7	240.0	240.3	240.8	241.1	241.3	241.5	241.6
132.5°	253.1	252.9	252.6	252.4	252.6	252.9	253.1	253.4	253.7	254.0	254.3
135°	272.6	272.4	272.2	271.9	272.2	272.4	272.6	272.9	273.0	273.1	273.2
137.5°	290.5	290.2	289.9	289.5	289.9	290.2	290.5	290.8	291.0	291.0	291.1
140°	302.8	302.5	302.2	301.8	302.2	302.5	302.8	303.1	303.3	303.3	303.3
142.5°	314.0	313.6	313.3	313.0	313.3	313.6	314.0	314.3	314.4	314.3	314.3
145°	330.6	330.3	330.0	329.6	330.0	330.3	330.6	330.9	331.0	330.9	330.9
147.5°	345.5	345.2	344.9	344.6	344.9	345.2	345.5	345.8	345.9	345.7	345.5
150°	355.0	354.8	354.6	354.3	354.6	354.8	355.0	355.3	355.3	355.0	354.8
152.5°	364.4	364.1	363.8	363.5	363.8	364.1	364.4	364.7	364.7	364.4	364.1
155°	376.4	376.2	376.0	375.7	376.0	376.2	376.4	376.7	376.6	376.2	375.8
157.5°	387.4	387.0	386.7	386.3	386.7	387.0	387.4	387.8	387.7	387.2	386.6
160°	393.7	393.4	393.1	392.8	393.1	393.4	393.7	394.0	394.0	393.5	393.0
162.5°	399.7	399.3	398.9	398.5	398.9	399.3	399.7	400.0	400.0	399.4	398.9
165°	407.2	406.8	406.4	406.1	406.4	406.8	407.2	407.6	407.5	407.0	406.4
167.5°	413.4	412.9	412.5	412.1	412.5	412.9	413.4	413.8	413.7	413.1	412.6
170°	416.8	416.3	415.8	415.3	415.8	416.3	416.8	417.2	417.2	416.6	416.1
172.5°	419.3	418.8	418.4	417.9	418.4	418.8	419.3	419.8	419.7	419.2	418.6
175°	422.1	421.6	421.1	420.6	421.1	421.6	422.1	422.5	422.5	421.9	421.4
177.5°	423.0	422.7	422.3	421.9	422.3	422.7	423.0	423.4	423.4	423.0	422.7
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8



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**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°	11.7	11.8	12.0	11.7	11.3	12.2	12.6	13.0	14.0	15.8	18.0
90°	12.3	12.5	10.7	9.0	7.3	5.6	4.1	3.2	2.2	1.3	0.4
92.5°	11.4	11.3	10.9	10.5	10.1	9.7	9.2	8.5	7.8	7.1	6.4
95°	22.8	22.8	22.7	22.5	22.3	22.2	21.7	20.9	20.1	19.4	18.6
97.5°	38.4	38.4	38.1	37.8	37.5	37.2	36.7	36.0	35.2	34.6	33.9
100°	49.3	49.3	49.0	48.8	48.5	48.3	47.9	47.3	46.6	45.9	45.3
102.5°	61.0	60.9	60.6	60.3	60.0	59.8	59.3	58.8	58.3	57.8	57.3
105°	78.7	78.5	78.4	78.2	78.1	77.9	77.7	77.5	77.2	77.0	76.7
107.5°	97.9	97.9	97.9	97.9	97.9	97.9	97.7	97.4	96.9	96.6	96.2
110°	111.0	111.0	111.0	111.0	111.0	111.0	110.7	110.3	109.8	109.3	108.9



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	124.2	124.4	124.4	124.5	124.5	124.6	124.4	123.9	123.5	123.0	122.5
115°	144.1	144.1	144.3	144.4	144.6	144.8	144.6	144.1	143.7	143.2	142.7
117.5°	163.5	163.7	164.1	164.6	165.0	165.5	165.4	164.7	164.1	163.5	162.8
120°	176.2	176.2	176.9	177.5	178.1	178.7	178.7	178.1	177.5	176.9	176.2
122.5°	189.8	190.0	190.4	190.9	191.3	191.8	191.6	190.8	190.1	189.2	188.5
125°	209.5	209.7	210.1	210.3	210.5	210.8	210.5	209.7	209.0	208.3	207.6
127.5°	228.7	229.0	229.3	229.6	229.9	230.1	229.8	228.9	228.1	227.2	226.3
130°	241.8	241.9	242.1	242.3	242.4	242.6	242.1	241.1	240.0	239.0	238.0
132.5°	254.7	255.0	255.0	255.0	254.9	254.9	254.5	253.6	252.8	252.0	251.2
135°	273.2	273.3	273.2	273.0	272.9	272.7	272.2	271.2	270.4	269.5	268.6
137.5°	291.2	291.2	291.0	290.8	290.6	290.4	290.0	289.3	288.5	287.8	287.1
140°	303.3	303.3	302.9	302.5	302.1	301.6	301.1	300.4	299.7	299.0	298.3
142.5°	314.2	314.1	313.9	313.6	313.3	313.1	312.6	311.8	311.1	310.4	309.7
145°	330.8	330.7	330.2	329.8	329.3	328.8	328.3	327.8	327.2	326.7	326.1
147.5°	345.4	345.2	344.9	344.6	344.2	343.9	343.4	342.7	342.0	341.4	340.7
150°	354.6	354.3	354.0	353.7	353.4	353.0	352.6	352.1	351.6	351.2	350.7
152.5°	363.8	363.5	363.0	362.6	362.2	361.9	361.4	361.0	360.5	360.0	359.6
155°	375.4	375.0	374.8	374.5	374.3	374.1	373.8	373.5	373.3	373.0	372.8
157.5°	386.1	385.6	385.4	385.3	385.2	385.0	384.9	384.7	384.5	384.4	384.2
160°	392.5	392.1	392.0	391.9	391.8	391.8	391.6	391.5	391.3	391.2	391.0
162.5°	398.4	397.8	397.8	397.7	397.6	397.5	397.5	397.4	397.4	397.4	397.3
165°	405.9	405.3	405.3	405.3	405.3	405.3	405.4	405.5	405.5	405.6	405.7
167.5°	412.0	411.5	411.5	411.5	411.5	411.6	411.7	411.9	412.2	412.4	412.6
170°	415.5	415.0	415.1	415.1	415.2	415.3	415.5	415.7	415.9	416.2	416.4
172.5°	418.1	417.5	417.6	417.7	417.8	417.8	418.0	418.2	418.5	418.7	418.9
175°	420.8	420.3	420.4	420.6	420.8	420.9	421.1	421.3	421.6	421.8	422.1
177.5°	422.3	421.9	422.0	422.2	422.3	422.4	422.6	422.8	422.9	423.1	423.3
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8



TEST NUMBER: P331736-840

CATALOG NUMBER: S122RDIP-S1005D330U840-4F0-1E-UDD-A1

**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°	15.1	12.2	11.8	11.3	12.2	12.6	12.3	12.6	13.6	13.0	13.5
90°	1.3	2.2	3.2	4.1	5.6	7.3	9.0	10.7	12.5	12.3	12.2
92.5°	7.1	7.8	8.5	9.2	9.7	10.1	10.5	10.9	11.3	11.4	11.4
95°	19.4	20.1	20.9	21.7	22.2	22.3	22.5	22.7	22.8	22.8	22.8
97.5°	34.6	35.2	36.0	36.7	37.2	37.5	37.8	38.1	38.4	38.4	38.4
100°	45.9	46.6	47.3	47.9	48.3	48.5	48.8	49.0	49.3	49.3	49.3
102.5°	57.8	58.3	58.8	59.3	59.8	60.0	60.3	60.6	60.9	61.0	61.1
105°	77.0	77.2	77.5	77.7	77.9	78.1	78.2	78.4	78.5	78.7	78.8
107.5°	96.6	96.9	97.4	97.7	97.9	97.9	97.9	97.9	97.9	97.9	98.0
110°	109.3	109.8	110.3	110.7	111.0	111.0	111.0	111.0	111.0	111.0	111.0





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	123.0	123.5	123.9	124.4	124.6	124.5	124.5	124.4	124.4	124.2	124.0
115°	143.2	143.7	144.1	144.6	144.8	144.6	144.4	144.3	144.1	144.1	144.0
117.5°	163.5	164.1	164.7	165.4	165.5	165.0	164.6	164.1	163.7	163.5	163.3
120°	176.9	177.5	178.1	178.7	178.7	178.1	177.5	176.9	176.2	176.2	176.2
122.5°	189.2	190.1	190.8	191.6	191.8	191.3	190.9	190.4	190.0	189.8	189.6
125°	208.3	209.0	209.7	210.5	210.8	210.5	210.3	210.1	209.7	209.5	209.3
127.5°	227.2	228.1	228.9	229.8	230.1	229.9	229.6	229.3	229.0	228.7	228.5
130°	239.0	240.0	241.1	242.1	242.6	242.4	242.3	242.1	241.9	241.8	241.6
132.5°	252.0	252.8	253.6	254.5	254.9	254.9	255.0	255.0	255.0	254.7	254.3
135°	269.5	270.4	271.2	272.2	272.7	272.9	273.0	273.2	273.3	273.2	273.2
137.5°	287.8	288.5	289.3	290.0	290.4	290.6	290.8	291.0	291.2	291.2	291.1
140°	299.0	299.7	300.4	301.1	301.6	302.1	302.5	302.9	303.3	303.3	303.3
142.5°	310.4	311.1	311.8	312.6	313.1	313.3	313.6	313.9	314.1	314.2	314.3
145°	326.7	327.2	327.8	328.3	328.8	329.3	329.8	330.2	330.7	330.8	330.9
147.5°	341.4	342.0	342.7	343.4	343.9	344.2	344.6	344.9	345.2	345.4	345.5
150°	351.2	351.6	352.1	352.6	353.0	353.4	353.7	354.0	354.3	354.6	354.8
152.5°	360.0	360.5	361.0	361.4	361.9	362.2	362.6	363.0	363.5	363.8	364.1
155°	373.0	373.3	373.5	373.8	374.1	374.3	374.5	374.8	375.0	375.4	375.8
157.5°	384.4	384.5	384.7	384.9	385.0	385.2	385.3	385.4	385.6	386.1	386.6
160°	391.2	391.3	391.5	391.6	391.8	391.8	391.9	392.0	392.1	392.5	393.0
162.5°	397.4	397.4	397.4	397.5	397.5	397.6	397.7	397.8	397.8	398.4	398.9
165°	405.6	405.5	405.5	405.4	405.3	405.3	405.3	405.3	405.3	405.9	406.4
167.5°	412.4	412.2	411.9	411.7	411.6	411.5	411.5	411.5	411.5	412.0	412.6
170°	416.2	415.9	415.7	415.5	415.3	415.2	415.1	415.1	415.0	415.5	416.1
172.5°	418.7	418.5	418.2	418.0	417.8	417.8	417.7	417.6	417.5	418.1	418.6
175°	421.8	421.6	421.3	421.1	420.9	420.8	420.6	420.4	420.3	420.8	421.4
177.5°	423.1	422.9	422.8	422.6	422.4	422.3	422.2	422.0	421.9	422.3	422.7
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8



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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°	12.9	12.9	12.9	12.9	12.9	12.9	12.3
90°	12.0	11.8	11.8	11.9	12.0	12.0	12.1
92.5°	11.4	11.5	11.5	11.5	11.5	11.5	11.5
95°	22.8	22.8	22.7	22.6	22.4	22.3	22.1
97.5°	38.4	38.4	38.4	38.4	38.4	38.4	38.3
100°	49.3	49.3	49.2	49.1	49.1	49.0	48.9
102.5°	61.1	61.2	61.2	61.1	61.0	61.0	60.9
105°	79.0	79.2	79.2	79.2	79.2	79.2	79.2
107.5°	98.1	98.1	98.0	97.6	97.3	96.8	96.4
110°	111.0	111.0	110.9	110.6	110.4	110.2	109.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	123.8	123.6	123.4	123.3	123.1	122.9	122.7
115°	143.9	143.8	143.7	143.4	143.2	143.0	142.7
117.5°	163.1	162.9	162.7	162.5	162.3	162.0	161.8
120°	176.2	176.2	176.1	175.9	175.6	175.4	175.2
122.5°	189.3	189.1	189.0	188.8	188.6	188.4	188.3
125°	209.0	208.8	208.6	208.6	208.5	208.4	208.3
127.5°	228.2	227.9	227.6	227.4	227.1	226.9	226.6
130°	241.5	241.3	241.1	240.8	240.3	240.0	239.7
132.5°	254.0	253.7	253.4	253.1	252.9	252.6	252.4
135°	273.1	273.0	272.9	272.6	272.4	272.2	271.9
137.5°	291.0	291.0	290.8	290.5	290.2	289.9	289.5
140°	303.3	303.3	303.1	302.8	302.5	302.2	301.8
142.5°	314.3	314.4	314.3	314.0	313.6	313.3	313.0
145°	330.9	331.0	330.9	330.6	330.3	330.0	329.6
147.5°	345.7	345.9	345.8	345.5	345.2	344.9	344.6
150°	355.0	355.3	355.3	355.0	354.8	354.6	354.3
152.5°	364.4	364.7	364.7	364.4	364.1	363.8	363.5
155°	376.2	376.6	376.7	376.4	376.2	376.0	375.7
157.5°	387.2	387.7	387.8	387.4	387.0	386.7	386.3
160°	393.5	394.0	394.0	393.7	393.4	393.1	392.8
162.5°	399.4	400.0	400.0	399.7	399.3	398.9	398.5
165°	407.0	407.5	407.6	407.2	406.8	406.4	406.1
167.5°	413.1	413.7	413.8	413.4	412.9	412.5	412.1
170°	416.6	417.2	417.2	416.8	416.3	415.8	415.3
172.5°	419.2	419.7	419.8	419.3	418.8	418.4	417.9
175°	421.9	422.5	422.5	422.1	421.6	421.1	420.6
177.5°	423.0	423.4	423.4	423.0	422.7	422.3	421.9
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8

(END OF REPORT)