

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: P331737

Luminaire Tested: **SA2XXRDIP-C1005D330U835-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331737  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXRDIP-C1005D330U835-4F0-1E-UDD-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5091.7 lumens  
Efficiency: N/A  
Efficacy: 102.2 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

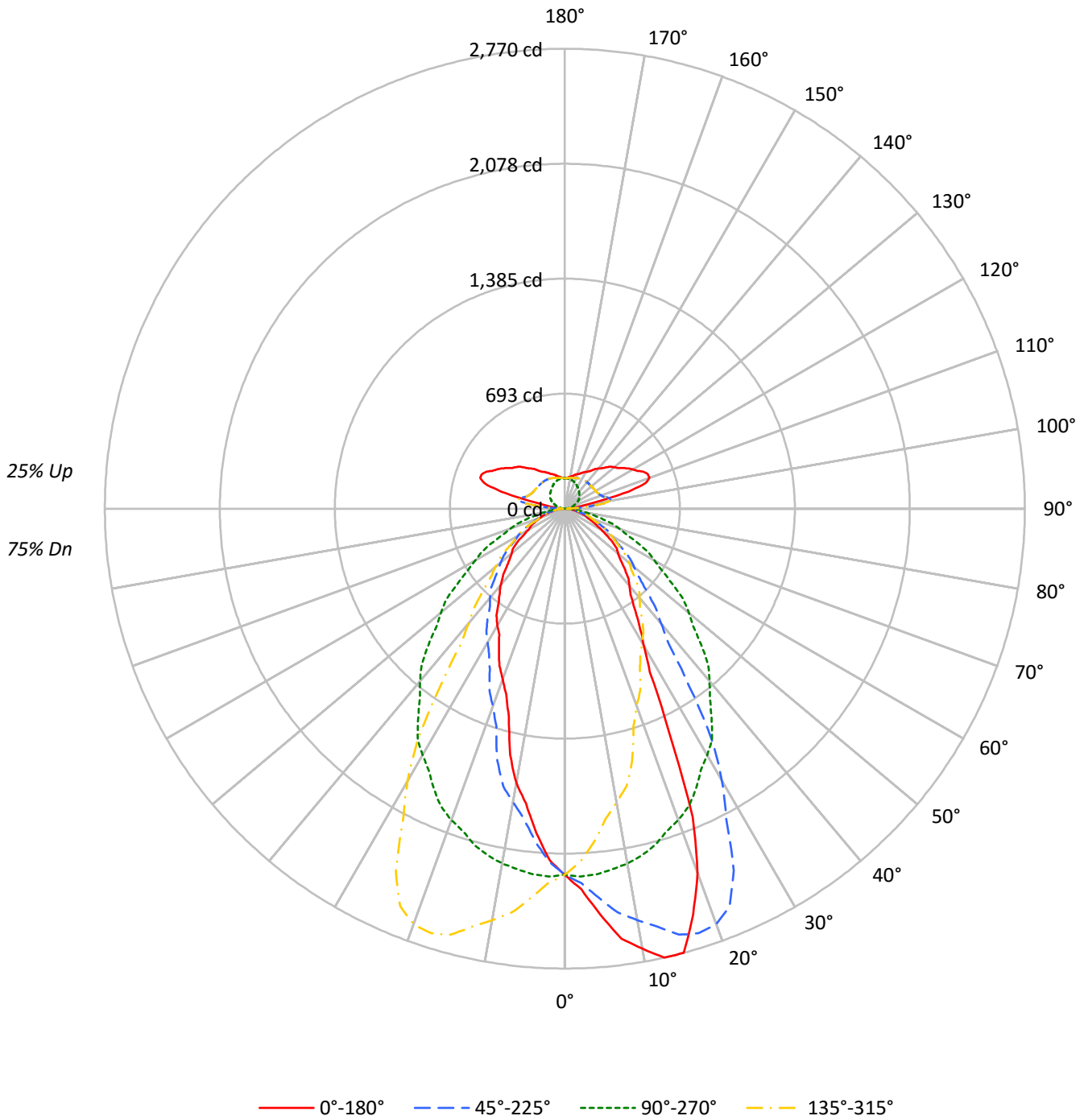
Input Watts (W): 49.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331737

CATALOG NUMBER: SA2XXRDIP-C1005D330U835-4F0-1E-UDD-A4

### Luminous Intensity Polar Plot





TEST NUMBER: P331737

CATALOG NUMBER: SA2XXRDIP-C1005D330U835-4F0-1E-UDD-A4

**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	97	97	97	88	88	88	79	79	79	75				
1	104	100	97	94	99	96	93	90	87	85	82	79	77	75	72	70	69	65				
2	96	89	83	79	91	85	80	76	78	74	70	71	68	65	65	62	60	57				
3	89	80	73	67	84	76	70	65	70	65	61	64	60	57	58	55	53	50				
4	82	72	64	58	78	69	62	56	63	57	53	58	53	50	53	50	47	44				
5	76	65	57	51	72	62	55	50	57	51	47	53	48	44	49	45	42	39				
6	70	59	51	45	67	57	49	44	52	46	42	48	43	40	45	41	37	35				
7	66	54	46	41	63	52	45	40	48	42	38	45	39	36	41	37	34	32				
8	61	49	42	37	59	48	41	36	44	38	34	41	36	32	38	34	31	29				
9	58	46	38	33	55	44	37	33	41	35	31	38	33	30	36	31	28	26				
10	54	42	35	30	52	41	34	30	38	32	29	36	31	27	33	29	26	24				

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

	0°	90°	180°	270°
0°	35608	35608	35608	35608
5°	39768	35832	31770	35832
10°	44124	35580	27539	35580
15°	46292	35059	21698	35059
20°	40132	34287	18777	34287
25°	26320	33228	16764	33228
30°	17715	31946	15172	31946
35°	14349	30328	13685	30328
40°	12760	28572	12663	28572
45°	11549	26510	11303	26510
50°	10510	24465	10472	24465
55°	9880	22196	9751	22196
60°	8263	20118	8167	20118
65°	6968	18269	7904	18269
70°	6439	16315	7454	16315
75°	6026	14198	6881	14198
80°	5560	11688	6127	11688
85°	5113	9226	5391	9226



TEST NUMBER: P331737

CATALOG NUMBER: SA2XXRDIP-C1005D330U835-4F0-1E-UDD-A4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.1	4.1
10°-20°	582.5	11.4
20°-30°	750.7	14.7
30°-40°	713.4	14.0
40°-50°	611.1	12.0
50°-60°	465.4	9.1
60°-70°	294.2	5.8
70°-80°	146.9	2.9
80°-90°	39.9	0.8
90°-100°	73.5	1.4
100°-110°	249.3	4.9
110°-120°	264.8	5.2
120°-130°	218.0	4.3
130°-140°	175.1	3.4
140°-150°	132.3	2.6
150°-160°	93.0	1.8
160°-170°	54.7	1.1
170°-180°	17.8	0.3
0°-30°	1542.3	30.3
0°-40°	2255.7	44.3
0°-60°	3332.1	65.4
0°-90°	3813.1	74.9
90°-120°	587.6	11.5
90°-150°	1113.0	21.9
90°-180°	1279.0	25.1
0°-180°	5091.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2205	2205	2205	2205	2205	
5°	2454	2211	1960	2211	2454	242
15°	2769	2097	1298	2097	2769	747
25°	1477	1865	941	1865	1477	701
35°	728	1539	694	1539	728	466
45°	506	1161	495	1161	506	391
55°	351	788	346	788	351	308
65°	182	478	207	478	182	186
75°	97	228	110	228	97	102
85°	28	50	29	50	28	30
90°	12	0	12	0	12	8
95°	40	12	40	12	40	52
105°	398	43	398	43	398	385
115°	524	76	524	76	524	513
125°	425	106	425	106	425	384
135°	352	124	352	124	352	274
145°	281	142	281	142	281	179
155°	236	162	236	162	236	110
165°	207	176	207	176	207	59
175°	187	183	187	183	187	18
180°	184	184	184	184	184	



TEST NUMBER: P331737

CATALOG NUMBER: SA2XXRDIP-C1005D330U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2294.9	2296.8	2298.6	2294.3	2294.3	2290.6	2282.7	2276.5	2259.4	2256.9	2256.9
5°	2453.7	2452.2	2455.2	2445.3	2431.5	2428.4	2413.9	2394.7	2374.8	2352.6	2348.0
7.5°	2611.6	2609.3	2603.1	2601.5	2590.9	2567.7	2544.3	2519.3	2486.2	2453.9	2437.6
10°	2691.3	2716.6	2701.2	2674.4	2679.8	2643.8	2624.6	2591.7	2564.1	2515.8	2505.1
12.5°	2769.7	2779.7	2774.8	2759.6	2752.7	2727.7	2701.8	2673.2	2622.3	2578.9	2541.2
15°	2769.4	2784.0	2787.8	2783.2	2787.1	2785.5	2771.7	2748.0	2703.5	2656.0	2614.6
17.5°	2565.0	2575.1	2600.2	2617.2	2638.7	2684.1	2706.4	2715.2	2708.6	2681.5	2652.3
20°	2335.7	2318.8	2389.3	2425.4	2456.0	2532.6	2598.5	2623.8	2664.4	2663.7	2656.0
22.5°	2010.8	2014.8	2081.6	2124.4	2213.9	2290.5	2365.6	2460.8	2539.4	2591.3	2621.7
25°	1477.4	1506.6	1573.2	1631.5	1731.1	1873.6	2003.1	2153.3	2295.1	2407.0	2513.5
27.5°	1109.6	1111.8	1164.6	1218.4	1277.6	1394.4	1557.4	1736.8	1938.9	2105.7	2297.5
30°	950.2	945.6	967.8	1000.8	1051.4	1141.8	1264.4	1440.7	1642.2	1893.5	2117.3
32.5°	837.4	837.7	854.4	878.8	920.8	981.8	1065.8	1208.9	1399.4	1646.5	1908.9
35°	728.0	727.2	739.5	757.1	774.7	813.8	871.3	946.4	1077.4	1308.1	1576.3
37.5°	649.5	652.9	658.9	669.9	689.4	711.1	745.6	796.0	889.4	1025.8	1251.2
40°	605.4	606.9	615.3	624.5	636.0	652.9	681.2	721.9	790.1	898.9	1063.6
42.5°	564.9	566.5	572.4	581.0	590.1	606.9	630.4	665.5	720.8	805.7	941.6
45°	505.8	505.8	511.1	515.0	524.9	540.2	559.4	588.5	626.8	689.7	780.1
47.5°	450.3	450.4	454.0	460.6	466.8	478.8	497.6	521.4	549.3	597.9	675.1
50°	418.4	419.2	421.5	426.8	430.7	441.4	456.0	476.6	505.8	543.3	607.7
52.5°	392.7	392.2	395.1	397.4	400.0	407.7	418.6	436.8	462.8	495.5	548.8
55°	351.0	347.9	352.5	356.3	358.6	361.7	367.8	379.3	401.5	429.1	469.0
57.5°	298.9	297.6	300.9	304.4	311.6	319.9	325.1	332.4	343.9	363.7	403.2
60°	255.9	255.9	262.8	265.1	273.6	284.3	295.0	301.2	312.7	325.7	354.8
62.5°	217.9	218.6	221.8	224.1	228.8	242.0	257.0	270.5	281.4	293.8	313.1
65°	182.4	183.9	183.9	185.4	188.5	191.6	197.7	208.4	227.6	245.2	259.8
67.5°	154.8	155.3	155.7	157.2	158.0	161.4	163.8	168.6	173.0	189.7	207.8
70°	136.4	138.7	137.9	139.5	140.2	141.8	144.8	147.1	154.0	157.9	168.6
72.5°	119.2	120.9	120.8	121.7	123.7	124.0	126.4	128.7	133.2	136.4	142.2
75°	96.6	95.8	96.6	98.1	98.9	99.6	99.6	102.7	105.0	108.0	111.9
77.5°	74.5	75.3	75.1	75.3	75.4	76.8	76.6	78.0	80.3	81.8	83.7
80°	59.8	60.5	59.8	60.5	61.3	62.1	61.3	62.1	64.4	65.9	65.9
82.5°	46.3	46.4	46.9	47.1	47.2	47.4	48.4	48.6	50.3	50.0	50.6
85°	27.6	26.8	26.8	26.8	27.6	28.4	27.6	27.6	28.4	28.4	28.4
87.5°	12.1	12.8	12.8	12.8	12.8	12.7	12.5	13.3	12.8	13.4	12.8
90°	11.7	11.7	11.7	11.7	11.7	11.3	10.6	11.3	11.7	12.0	11.7
92.5°	19.6	20.1	19.9	21.0	21.3	23.5	26.4	30.8	38.8	45.9	45.3
95°	40.3	39.9	41.0	43.8	48.4	56.2	71.0	92.6	121.2	138.5	122.6
97.5°	79.3	82.3	87.4	96.1	113.0	138.5	176.7	216.0	248.0	236.4	178.1
100°	126.5	132.9	143.1	158.3	187.6	230.4	278.8	322.6	330.0	279.1	192.2
102.5°	222.6	231.2	244.0	269.9	301.8	347.1	382.5	392.4	360.5	280.5	186.8
105°	398.2	403.1	418.3	440.2	462.2	473.8	469.2	429.3	355.8	261.8	176.3
107.5°	508.7	515.2	518.3	519.5	516.7	499.6	462.9	402.7	324.8	241.7	171.1
110°	542.0	542.4	539.2	532.5	517.3	488.3	443.1	379.8	305.3	232.1	170.0



TEST NUMBER: P331737

CATALOG NUMBER: SA2XXRDIP-C1005D330U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	541.4	539.5	533.5	522.3	501.2	467.9	419.6	358.9	291.7	225.9	170.2
115°	524.0	520.8	511.6	495.4	470.3	433.9	387.6	333.2	274.9	219.1	171.7
117.5°	492.8	490.1	480.5	463.3	437.7	403.6	361.6	313.8	264.3	215.7	174.3
120°	472.8	469.2	459.0	442.4	417.6	385.5	348.0	304.2	258.6	213.8	176.0
122.5°	451.8	448.9	439.8	423.4	401.2	372.2	336.7	296.6	253.8	212.6	177.9
125°	425.1	422.2	413.4	400.0	379.5	353.0	321.9	285.5	247.0	210.6	180.9
127.5°	401.6	399.3	391.7	379.1	361.2	336.8	307.5	274.5	240.6	209.4	183.9
130°	388.3	385.5	378.4	366.4	349.1	325.8	297.9	267.5	236.4	208.8	186.2
132.5°	374.5	371.9	365.4	353.4	336.4	314.5	288.8	260.7	233.0	208.5	188.5
135°	352.3	350.9	344.5	332.8	317.6	297.9	274.5	251.2	228.2	208.1	191.2
137.5°	330.5	328.4	322.8	312.8	298.9	281.7	263.2	243.7	224.9	208.0	193.6
140°	315.5	313.4	308.1	298.9	287.6	272.1	255.8	238.8	222.9	207.8	194.7
142.5°	300.5	300.1	295.4	287.0	276.3	263.3	249.3	234.9	221.0	207.8	195.5
145°	281.2	280.2	276.7	270.6	262.2	251.9	241.0	229.3	218.4	207.0	196.4
147.5°	265.1	264.4	262.0	257.2	250.2	242.7	234.2	225.0	215.7	205.8	196.7
150°	255.5	255.1	253.0	248.7	243.4	237.1	229.7	221.9	213.4	204.9	196.4
152.5°	247.3	247.2	245.6	242.0	237.8	232.3	226.0	218.8	211.4	203.5	195.9
155°	236.4	237.1	235.7	233.2	229.3	225.4	220.1	214.5	207.8	201.0	195.0
157.5°	227.1	227.1	226.5	224.4	221.7	218.6	214.2	209.5	204.3	198.5	193.4
160°	221.2	221.2	220.8	219.1	216.6	214.1	210.2	206.3	201.7	196.8	192.6
162.5°	215.5	215.8	215.5	214.3	211.8	209.9	206.6	203.2	199.5	195.4	191.7
165°	207.4	207.8	207.8	206.3	204.9	203.5	201.0	198.6	195.7	192.6	190.1
167.5°	199.9	200.3	200.4	199.6	199.0	197.7	196.0	194.1	192.1	190.1	188.5
170°	195.4	196.1	196.4	195.4	195.0	194.3	192.9	191.9	190.1	188.7	187.6
172.5°	191.7	192.1	192.5	192.0	191.6	191.2	190.1	189.3	188.1	187.0	186.5
175°	186.9	187.6	188.0	187.6	187.6	187.3	186.9	186.6	185.5	185.1	184.8
177.5°	184.0	184.6	184.9	184.9	184.9	184.9	184.6	184.6	184.0	183.7	184.0
180°	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7



TEST NUMBER: P331737

CATALOG NUMBER: SA2XXRDIP-C1005D330U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2258.2	2253.2	2249.0	2237.9	2232.4	2220.1	2218.3	2217.7	2201.8	2186.4	2182.1
5°	2335.7	2323.4	2305.1	2283.6	2261.4	2238.4	2223.1	2210.8	2180.1	2151.0	2134.2
7.5°	2413.9	2387.5	2355.8	2315.2	2281.3	2243.3	2215.1	2189.8	2146.3	2104.6	2076.5
10°	2472.1	2429.2	2387.0	2331.1	2287.4	2244.5	2204.7	2170.2	2121.1	2066.0	2026.9
12.5°	2508.3	2461.1	2403.0	2348.3	2291.7	2237.2	2183.8	2139.5	2081.9	2024.9	1978.5
15°	2557.2	2506.6	2436.1	2357.9	2285.1	2213.9	2152.6	2097.4	2022.3	1954.1	1897.4
17.5°	2597.2	2527.6	2451.9	2361.5	2277.2	2186.6	2107.7	2037.2	1953.6	1871.3	1804.5
20°	2610.0	2541.1	2453.7	2363.3	2263.7	2157.2	2072.1	1995.5	1905.8	1816.1	1739.5
22.5°	2602.1	2548.4	2451.3	2343.1	2241.0	2129.6	2033.5	1944.6	1845.1	1753.6	1664.7
25°	2548.0	2529.6	2437.6	2319.6	2203.1	2073.6	1962.5	1865.2	1751.8	1653.7	1557.1
27.5°	2421.8	2461.5	2404.5	2278.8	2149.3	2010.5	1885.6	1774.8	1657.1	1546.7	1450.5
30°	2300.5	2391.6	2367.1	2250.6	2105.8	1969.4	1829.2	1713.5	1587.8	1474.4	1379.4
32.5°	2134.3	2285.0	2308.9	2211.4	2061.7	1911.8	1764.8	1649.7	1518.5	1399.0	1306.4
35°	1869.8	2095.1	2198.5	2136.5	1986.3	1824.6	1672.8	1538.7	1406.9	1288.9	1197.0
37.5°	1554.2	1861.1	2033.5	2037.9	1900.0	1731.9	1566.6	1433.5	1298.6	1182.7	1083.3
40°	1349.5	1682.0	1906.6	1956.4	1839.9	1658.3	1491.2	1355.6	1223.8	1110.4	996.2
42.5°	1165.6	1496.9	1772.9	1859.5	1767.0	1586.6	1418.9	1277.1	1149.0	1041.7	925.1
45°	942.6	1232.2	1536.4	1691.2	1639.9	1472.8	1295.8	1161.0	1040.6	947.9	836.0
47.5°	795.1	999.3	1293.7	1503.0	1502.1	1349.6	1175.5	1046.3	934.7	847.8	757.3
50°	711.1	888.9	1138.0	1375.5	1395.4	1267.5	1101.9	974.0	869.8	778.6	705.8
52.5°	635.7	782.2	1006.2	1233.9	1290.6	1179.8	1019.2	901.0	799.9	716.0	653.7
55°	537.2	650.6	820.7	1033.7	1119.6	1041.4	898.9	788.5	706.5	636.0	582.4
57.5°	454.4	539.5	676.0	847.5	947.5	898.3	780.7	691.1	620.9	557.1	514.8
60°	402.3	472.0	587.8	731.1	841.4	806.9	706.5	623.0	563.2	508.1	468.2
62.5°	353.3	413.2	512.4	628.7	729.8	715.6	633.6	563.5	511.1	460.9	427.1
65°	284.3	328.0	405.4	496.6	577.8	584.7	525.7	478.2	431.4	391.6	361.7
67.5°	226.4	254.9	309.4	386.2	447.1	468.8	432.8	396.5	359.4	328.6	302.7
70°	190.8	213.8	253.6	315.7	371.7	394.6	374.0	345.6	313.4	288.1	265.9
72.5°	154.6	177.0	206.4	252.0	299.9	324.8	317.6	297.2	271.1	250.1	229.1
75°	116.5	123.4	143.3	174.0	211.5	233.0	238.3	227.6	206.9	190.8	178.5
77.5°	86.1	90.3	99.8	115.9	140.4	159.5	167.4	166.1	151.9	142.5	131.0
80°	69.0	71.3	75.9	82.8	101.2	120.3	125.7	125.7	115.7	111.9	100.4
82.5°	52.4	54.1	56.9	60.7	69.3	86.0	92.0	93.2	86.9	81.8	72.8
85°	29.9	29.1	30.7	33.0	34.5	39.1	48.3	49.8	48.3	42.1	39.8
87.5°	12.3	12.4	12.1	11.3	11.7	12.2	15.0	17.8	15.6	14.1	13.0
90°	9.5	7.1	5.3	4.2	3.5	2.8	1.4	0.4	1.4	2.8	3.5
92.5°	35.3	24.0	16.0	12.7	10.3	8.8	6.2	4.3	6.2	8.8	10.3
95°	81.6	50.9	34.6	26.1	20.5	17.3	13.8	12.4	13.8	17.3	20.5
97.5°	110.0	67.1	46.7	37.1	30.6	25.8	22.0	20.1	22.0	25.8	30.6
100°	115.9	72.8	54.1	44.2	37.1	31.4	28.3	27.2	28.3	31.4	37.1
102.5°	116.2	77.9	60.6	50.7	43.3	37.7	34.5	33.7	34.5	37.7	43.3
105°	118.0	86.6	70.0	60.1	52.3	47.0	44.5	43.1	44.5	47.0	52.3
107.5°	122.9	95.5	79.4	69.4	61.7	56.8	54.4	53.3	54.4	56.8	61.7
110°	126.8	101.4	85.9	75.6	68.2	63.6	61.5	60.1	61.5	63.6	68.2





TEST NUMBER: P331737

CATALOG NUMBER: SA2XXRDIP-C1005D330U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	131.1	107.1	92.1	81.5	74.4	70.1	67.7	66.3	67.7	70.1	74.4
115°	137.4	115.9	100.7	91.2	84.1	79.9	77.7	76.0	77.7	79.9	84.1
117.5°	144.2	124.0	110.0	100.1	93.3	89.5	87.4	86.0	87.4	89.5	93.3
120°	148.8	129.7	115.9	106.0	98.9	95.8	93.6	92.2	93.6	95.8	98.9
122.5°	152.7	135.0	122.1	111.9	104.9	101.4	99.3	98.2	99.3	101.4	104.9
125°	159.0	143.1	130.4	120.5	113.4	109.2	107.1	106.0	107.1	109.2	113.4
127.5°	164.9	150.6	138.2	128.0	121.3	116.6	113.6	112.2	113.6	116.6	121.3
130°	168.5	155.1	142.7	132.9	125.8	120.8	117.3	115.9	117.3	120.8	125.8
132.5°	172.2	159.1	147.3	137.4	130.0	124.8	121.0	119.3	121.0	124.8	130.0
135°	177.0	164.7	153.3	143.5	135.3	130.0	125.8	124.4	125.8	130.0	135.3
137.5°	180.7	169.2	158.0	148.8	140.8	135.1	130.9	129.2	130.9	135.1	140.8
140°	182.7	171.7	161.1	151.9	144.2	138.5	134.3	132.9	134.3	138.5	144.2
142.5°	184.4	173.7	163.4	154.8	147.3	141.6	137.7	136.5	137.7	141.6	147.3
145°	186.6	176.7	167.1	159.4	152.3	147.0	143.5	142.0	143.5	147.0	152.3
147.5°	187.8	179.1	170.1	163.2	157.3	152.4	149.0	148.0	149.0	152.4	157.3
150°	188.3	180.2	172.1	165.7	160.4	155.8	153.0	151.9	153.0	155.8	160.4
152.5°	188.6	181.3	174.0	168.3	163.2	159.2	156.4	155.9	156.4	159.2	163.2
155°	189.0	183.0	177.0	171.7	167.8	163.9	161.8	161.5	161.8	163.9	167.8
157.5°	189.0	184.2	179.1	174.7	171.6	168.2	166.5	166.1	166.5	168.2	171.6
160°	189.0	184.8	180.6	176.7	173.8	171.0	169.6	169.2	169.6	171.0	173.8
162.5°	188.7	185.1	181.4	178.4	175.8	173.6	172.1	172.4	172.1	173.6	175.8
165°	188.0	185.5	182.3	180.2	178.4	176.3	175.6	176.0	175.6	176.3	178.4
167.5°	187.5	185.4	183.1	181.8	180.5	179.1	178.5	178.9	178.5	179.1	180.5
170°	186.9	185.1	183.4	182.3	181.6	180.6	180.2	180.9	180.2	180.6	181.6
172.5°	186.1	184.9	183.7	182.9	182.5	181.4	181.6	182.0	181.6	181.4	182.5
175°	185.1	184.4	183.7	183.4	183.4	182.7	183.0	183.4	183.0	182.7	183.4
177.5°	184.6	184.0	183.7	183.7	183.7	183.2	183.4	184.0	183.4	183.2	183.7
180°	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7



TEST NUMBER: P331737

CATALOG NUMBER: SA2XXRDIP-C1005D330U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2174.2	2169.9	2161.9	2149.6	2142.3	2129.4	2120.8	2125.7	2127.0	2125.7	2124.5
5°	2115.8	2099.7	2077.5	2056.0	2036.1	2014.6	2002.4	1997.0	1986.3	1980.1	1977.1
7.5°	2045.1	2017.4	1986.0	1948.6	1916.8	1883.6	1866.6	1858.1	1836.2	1824.3	1813.8
10°	1992.4	1948.7	1917.3	1868.3	1838.4	1794.7	1764.8	1765.6	1735.7	1718.8	1706.6
12.5°	1934.2	1886.2	1833.9	1789.8	1748.3	1713.2	1677.1	1662.6	1630.9	1614.6	1581.5
15°	1837.6	1781.7	1726.5	1666.7	1624.6	1570.2	1518.1	1454.5	1403.1	1358.7	1346.4
17.5°	1732.2	1662.9	1607.6	1537.4	1465.2	1373.7	1313.3	1276.4	1245.4	1222.0	1204.5
20°	1659.8	1589.3	1530.3	1424.6	1327.2	1265.2	1220.7	1192.4	1160.2	1134.9	1121.1
22.5°	1583.8	1510.2	1429.8	1311.8	1235.9	1186.1	1146.5	1113.9	1092.1	1072.4	1059.8
25°	1475.9	1395.4	1262.9	1181.6	1120.3	1068.2	1040.6	1020.7	997.7	970.9	958.7
27.5°	1361.9	1233.9	1138.7	1078.3	1019.8	985.9	961.1	931.4	910.8	898.7	886.0
30°	1276.7	1148.7	1074.4	1008.5	967.1	929.5	900.4	883.6	863.6	842.9	834.5
32.5°	1181.6	1079.4	1008.2	953.3	911.3	879.3	856.3	829.0	814.6	801.9	784.2
35°	1063.6	986.2	921.1	876.7	836.8	810.8	783.9	767.8	741.8	731.1	724.2
37.5°	963.7	896.6	848.0	801.1	769.5	740.7	724.3	698.7	687.4	672.5	658.0
40°	907.3	841.4	794.7	756.3	721.1	699.6	678.9	658.3	641.4	634.5	616.9
42.5°	849.7	796.0	749.3	707.3	683.7	661.0	634.8	619.6	602.2	591.0	580.1
45°	770.1	722.6	682.8	648.3	622.2	598.5	581.6	556.3	546.4	524.2	515.0
47.5°	700.3	656.1	618.1	585.3	559.9	544.4	519.7	499.9	484.0	470.4	458.6
50°	650.6	613.8	577.0	547.9	524.9	502.7	477.4	467.4	442.9	436.0	429.1
52.5°	605.2	570.3	536.6	508.1	485.1	463.5	441.2	428.2	411.7	404.8	399.7
55°	541.8	508.1	475.9	450.6	427.6	405.4	391.6	375.5	367.8	362.5	356.3
57.5°	478.0	447.7	423.0	397.4	374.3	356.6	340.7	331.0	323.1	316.0	308.7
60°	437.6	408.4	386.2	362.5	338.7	324.1	311.9	300.4	291.2	280.5	277.4
62.5°	394.6	369.2	348.8	325.7	305.0	291.7	280.0	269.1	258.1	242.5	238.2
65°	335.6	315.7	294.3	275.1	256.7	243.7	226.8	214.6	210.0	208.4	207.7
67.5°	282.3	263.5	245.1	225.4	208.7	196.6	188.1	186.2	183.0	182.1	179.9
70°	246.8	229.1	210.7	192.3	176.3	174.0	170.9	167.8	164.0	162.5	160.9
72.5°	214.9	196.6	178.2	163.5	156.6	153.7	150.7	147.6	145.0	143.5	142.5
75°	164.8	147.9	135.6	130.3	126.4	124.1	119.5	117.2	115.7	113.4	112.6
77.5°	118.6	109.1	103.5	100.1	96.1	93.6	91.0	88.7	87.1	86.6	85.4
80°	90.4	85.8	82.0	77.4	75.9	72.8	72.0	69.7	70.5	68.2	68.2
82.5°	70.2	64.4	61.2	59.0	57.5	55.0	54.3	53.2	53.3	51.6	51.6
85°	36.0	34.5	33.0	31.4	31.4	29.1	29.9	29.1	29.1	27.6	26.8
87.5°	12.5	12.1	11.2	11.7	12.1	11.6	11.5	10.8	10.7	10.8	10.3
90°	4.2	5.3	7.1	9.5	11.7	12.0	11.7	11.3	10.6	11.3	11.7
92.5°	12.7	16.0	24.0	35.3	45.3	45.9	38.8	30.8	26.4	23.5	21.3
95°	26.1	34.6	50.9	81.6	122.6	138.5	121.2	92.6	71.0	56.2	48.4
97.5°	37.1	46.7	67.1	110.0	178.1	236.4	248.0	216.0	176.7	138.5	113.0
100°	44.2	54.1	72.8	115.9	192.2	279.1	330.0	322.6	278.8	230.4	187.6
102.5°	50.7	60.6	77.9	116.2	186.8	280.5	360.5	392.4	382.5	347.1	301.8
105°	60.1	70.0	86.6	118.0	176.3	261.8	355.8	429.3	469.2	473.8	462.2
107.5°	69.4	79.4	95.5	122.9	171.1	241.7	324.8	402.7	462.9	499.6	516.7
110°	75.6	85.9	101.4	126.8	170.0	232.1	305.3	379.8	443.1	488.3	517.3



TEST NUMBER: P331737

CATALOG NUMBER: SA2XXRDIP-C1005D330U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	81.5	92.1	107.1	131.1	170.2	225.9	291.7	358.9	419.6	467.9	501.2
115°	91.2	100.7	115.9	137.4	171.7	219.1	274.9	333.2	387.6	433.9	470.3
117.5°	100.1	110.0	124.0	144.2	174.3	215.7	264.3	313.8	361.6	403.6	437.7
120°	106.0	115.9	129.7	148.8	176.0	213.8	258.6	304.2	348.0	385.5	417.6
122.5°	111.9	122.1	135.0	152.7	177.9	212.6	253.8	296.6	336.7	372.2	401.2
125°	120.5	130.4	143.1	159.0	180.9	210.6	247.0	285.5	321.9	353.0	379.5
127.5°	128.0	138.2	150.6	164.9	183.9	209.4	240.6	274.5	307.5	336.8	361.2
130°	132.9	142.7	155.1	168.5	186.2	208.8	236.4	267.5	297.9	325.8	349.1
132.5°	137.4	147.3	159.1	172.2	188.5	208.5	233.0	260.7	288.8	314.5	336.4
135°	143.5	153.3	164.7	177.0	191.2	208.1	228.2	251.2	274.5	297.9	317.6
137.5°	148.8	158.0	169.2	180.7	193.6	208.0	224.9	243.7	263.2	281.7	298.9
140°	151.9	161.1	171.7	182.7	194.7	207.8	222.9	238.8	255.8	272.1	287.6
142.5°	154.8	163.4	173.7	184.4	195.5	207.8	221.0	234.9	249.3	263.3	276.3
145°	159.4	167.1	176.7	186.6	196.4	207.0	218.4	229.3	241.0	251.9	262.2
147.5°	163.2	170.1	179.1	187.8	196.7	205.8	215.7	225.0	234.2	242.7	250.2
150°	165.7	172.1	180.2	188.3	196.4	204.9	213.4	221.9	229.7	237.1	243.4
152.5°	168.3	174.0	181.3	188.6	195.9	203.5	211.4	218.8	226.0	232.3	237.8
155°	171.7	177.0	183.0	189.0	195.0	201.0	207.8	214.5	220.1	225.4	229.3
157.5°	174.7	179.1	184.2	189.0	193.4	198.5	204.3	209.5	214.2	218.6	221.7
160°	176.7	180.6	184.8	189.0	192.6	196.8	201.7	206.3	210.2	214.1	216.6
162.5°	178.4	181.4	185.1	188.7	191.7	195.4	199.5	203.2	206.6	209.9	211.8
165°	180.2	182.3	185.5	188.0	190.1	192.6	195.7	198.6	201.0	203.5	204.9
167.5°	181.8	183.1	185.4	187.5	188.5	190.1	192.1	194.1	196.0	197.7	199.0
170°	182.3	183.4	185.1	186.9	187.6	188.7	190.1	191.9	192.9	194.3	195.0
172.5°	182.9	183.7	184.9	186.1	186.5	187.0	188.1	189.3	190.1	191.2	191.6
175°	183.4	183.7	184.4	185.1	184.8	185.1	185.5	186.6	186.9	187.3	187.6
177.5°	183.7	183.7	184.0	184.6	184.0	183.7	184.0	184.6	184.6	184.9	184.9
180°	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7



TEST NUMBER: P331737

CATALOG NUMBER: SA2XXRDIP-C1005D330U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2117.8	2119.0	2117.2	2118.4	2117.2	2119.0	2117.8	2124.5	2125.7	2127.0	2125.7
5°	1973.2	1964.0	1962.5	1960.2	1962.5	1964.0	1973.2	1977.1	1980.1	1986.3	1997.0
7.5°	1800.7	1799.3	1795.5	1790.1	1795.5	1799.3	1800.7	1813.8	1824.3	1836.2	1858.1
10°	1689.7	1685.9	1685.1	1679.7	1685.1	1685.9	1689.7	1706.6	1718.8	1735.7	1765.6
12.5°	1559.7	1535.1	1532.5	1519.1	1532.5	1535.1	1559.7	1581.5	1614.6	1630.9	1662.6
15°	1328.0	1323.4	1308.1	1298.1	1308.1	1323.4	1328.0	1346.4	1358.7	1403.1	1454.5
17.5°	1195.6	1180.6	1175.8	1173.7	1175.8	1180.6	1195.6	1204.5	1222.0	1245.4	1276.4
20°	1110.4	1096.6	1094.3	1092.8	1094.3	1096.6	1110.4	1121.1	1134.9	1160.2	1192.4
22.5°	1051.5	1037.1	1031.1	1026.5	1031.1	1037.1	1051.5	1059.8	1072.4	1092.1	1113.9
25°	951.0	945.6	942.6	941.0	942.6	945.6	951.0	958.7	970.9	997.7	1020.7
27.5°	872.4	860.6	858.3	854.3	858.3	860.6	872.4	886.0	898.7	910.8	931.4
30°	827.6	823.8	818.4	813.8	818.4	823.8	827.6	834.5	842.9	863.6	883.6
32.5°	774.9	771.7	766.9	764.8	766.9	771.7	774.9	784.2	801.9	814.6	829.0
35°	716.5	705.8	701.2	694.3	701.2	705.8	716.5	724.2	731.1	741.8	767.8
37.5°	654.7	649.1	642.6	644.9	642.6	649.1	654.7	658.0	672.5	687.4	698.7
40°	606.9	603.1	601.6	600.8	601.6	603.1	606.9	616.9	634.5	641.4	658.3
42.5°	568.9	558.3	554.3	554.2	554.3	558.3	568.9	580.1	591.0	602.2	619.6
45°	511.1	501.2	494.3	495.0	494.3	501.2	511.1	515.0	524.2	546.4	556.3
47.5°	452.0	451.7	447.4	448.7	447.4	451.7	452.0	458.6	470.4	484.0	499.9
50°	423.8	419.2	416.1	416.9	416.1	419.2	423.8	429.1	436.0	442.9	467.4
52.5°	396.8	392.8	390.4	393.6	390.4	392.8	396.8	399.7	404.8	411.7	428.2
55°	352.5	347.9	347.1	346.4	347.1	347.9	352.5	356.3	362.5	367.8	375.5
57.5°	303.0	299.9	295.3	293.3	295.3	299.9	303.0	308.7	316.0	323.1	331.0
60°	267.4	261.3	253.6	252.9	253.6	261.3	267.4	277.4	280.5	291.2	300.4
62.5°	234.9	233.7	232.2	232.0	232.2	233.7	234.9	238.2	242.5	258.1	269.1
65°	206.1	205.4	206.1	206.9	206.1	205.4	206.1	207.7	208.4	210.0	214.6
67.5°	179.6	178.2	176.9	177.5	176.9	178.2	179.6	179.9	182.1	183.0	186.2
70°	159.4	158.6	157.9	157.9	157.9	158.6	159.4	160.9	162.5	164.0	167.8
72.5°	139.8	139.6	138.9	138.2	138.9	139.6	139.8	142.5	143.5	145.0	147.6
75°	111.9	110.3	110.3	110.3	110.3	110.3	111.9	112.6	113.4	115.7	117.2
77.5°	85.2	84.4	83.7	83.1	83.7	84.4	85.2	85.4	86.6	87.1	88.7
80°	67.4	66.7	65.9	65.9	65.9	66.7	67.4	68.2	68.2	70.5	69.7
82.5°	51.5	50.7	50.6	50.0	50.6	50.7	51.5	51.6	51.6	53.3	53.2
85°	27.6	28.4	27.6	29.1	27.6	28.4	27.6	26.8	27.6	29.1	29.1
87.5°	10.3	9.7	10.3	9.7	10.3	9.7	10.3	10.3	10.8	10.7	10.8
90°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.3	10.6	11.3
92.5°	21.0	19.9	20.1	19.6	20.1	19.9	21.0	21.3	23.5	26.4	30.8
95°	43.8	41.0	39.9	40.3	39.9	41.0	43.8	48.4	56.2	71.0	92.6
97.5°	96.1	87.4	82.3	79.3	82.3	87.4	96.1	113.0	138.5	176.7	216.0
100°	158.3	143.1	132.9	126.5	132.9	143.1	158.3	187.6	230.4	278.8	322.6
102.5°	269.9	244.0	231.2	222.6	231.2	244.0	269.9	301.8	347.1	382.5	392.4
105°	440.2	418.3	403.1	398.2	403.1	418.3	440.2	462.2	473.8	469.2	429.3
107.5°	519.5	518.3	515.2	508.7	515.2	518.3	519.5	516.7	499.6	462.9	402.7
110°	532.5	539.2	542.4	542.0	542.4	539.2	532.5	517.3	488.3	443.1	379.8



TEST NUMBER: P331737

CATALOG NUMBER: SA2XXRDIP-C1005D330U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	522.3	533.5	539.5	541.4	539.5	533.5	522.3	501.2	467.9	419.6	358.9
115°	495.4	511.6	520.8	524.0	520.8	511.6	495.4	470.3	433.9	387.6	333.2
117.5°	463.3	480.5	490.1	492.8	490.1	480.5	463.3	437.7	403.6	361.6	313.8
120°	442.4	459.0	469.2	472.8	469.2	459.0	442.4	417.6	385.5	348.0	304.2
122.5°	423.4	439.8	448.9	451.8	448.9	439.8	423.4	401.2	372.2	336.7	296.6
125°	400.0	413.4	422.2	425.1	422.2	413.4	400.0	379.5	353.0	321.9	285.5
127.5°	379.1	391.7	399.3	401.6	399.3	391.7	379.1	361.2	336.8	307.5	274.5
130°	366.4	378.4	385.5	388.3	385.5	378.4	366.4	349.1	325.8	297.9	267.5
132.5°	353.4	365.4	371.9	374.5	371.9	365.4	353.4	336.4	314.5	288.8	260.7
135°	332.8	344.5	350.9	352.3	350.9	344.5	332.8	317.6	297.9	274.5	251.2
137.5°	312.8	322.8	328.4	330.5	328.4	322.8	312.8	298.9	281.7	263.2	243.7
140°	298.9	308.1	313.4	315.5	313.4	308.1	298.9	287.6	272.1	255.8	238.8
142.5°	287.0	295.4	300.1	300.5	300.1	295.4	287.0	276.3	263.3	249.3	234.9
145°	270.6	276.7	280.2	281.2	280.2	276.7	270.6	262.2	251.9	241.0	229.3
147.5°	257.2	262.0	264.4	265.1	264.4	262.0	257.2	250.2	242.7	234.2	225.0
150°	248.7	253.0	255.1	255.5	255.1	253.0	248.7	243.4	237.1	229.7	221.9
152.5°	242.0	245.6	247.2	247.3	247.2	245.6	242.0	237.8	232.3	226.0	218.8
155°	233.2	235.7	237.1	236.4	237.1	235.7	233.2	229.3	225.4	220.1	214.5
157.5°	224.4	226.5	227.1	227.1	227.1	226.5	224.4	221.7	218.6	214.2	209.5
160°	219.1	220.8	221.2	221.2	221.2	220.8	219.1	216.6	214.1	210.2	206.3
162.5°	214.3	215.5	215.8	215.5	215.8	215.5	214.3	211.8	209.9	206.6	203.2
165°	206.3	207.8	207.8	207.4	207.8	207.8	206.3	204.9	203.5	201.0	198.6
167.5°	199.6	200.4	200.3	199.9	200.3	200.4	199.6	199.0	197.7	196.0	194.1
170°	195.4	196.4	196.1	195.4	196.1	196.4	195.4	195.0	194.3	192.9	191.9
172.5°	192.0	192.5	192.1	191.7	192.1	192.5	192.0	191.6	191.2	190.1	189.3
175°	187.6	188.0	187.6	186.9	187.6	188.0	187.6	187.6	187.3	186.9	186.6
177.5°	184.9	184.9	184.6	184.0	184.6	184.9	184.9	184.9	184.9	184.6	184.6
180°	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7



TEST NUMBER: P331737

CATALOG NUMBER: SA2XXRDIP-C1005D330U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2120.8	2129.4	2142.3	2149.6	2161.9	2169.9	2174.2	2182.1	2186.4	2201.8	2217.7
5°	2002.4	2014.6	2036.1	2056.0	2077.5	2099.7	2115.8	2134.2	2151.0	2180.1	2210.8
7.5°	1866.6	1883.6	1916.8	1948.6	1986.0	2017.4	2045.1	2076.5	2104.6	2146.3	2189.8
10°	1764.8	1794.7	1838.4	1868.3	1917.3	1948.7	1992.4	2026.9	2066.0	2121.1	2170.2
12.5°	1677.1	1713.2	1748.3	1789.8	1833.9	1886.2	1934.2	1978.5	2024.9	2081.9	2139.5
15°	1518.1	1570.2	1624.6	1666.7	1726.5	1781.7	1837.6	1897.4	1954.1	2022.3	2097.4
17.5°	1313.3	1373.7	1465.2	1537.4	1607.6	1662.9	1732.2	1804.5	1871.3	1953.6	2037.2
20°	1220.7	1265.2	1327.2	1424.6	1530.3	1589.3	1659.8	1739.5	1816.1	1905.8	1995.5
22.5°	1146.5	1186.1	1235.9	1311.8	1429.8	1510.2	1583.8	1664.7	1753.6	1845.1	1944.6
25°	1040.6	1068.2	1120.3	1181.6	1262.9	1395.4	1475.9	1557.1	1653.7	1751.8	1865.2
27.5°	961.1	985.9	1019.8	1078.3	1138.7	1233.9	1361.9	1450.5	1546.7	1657.1	1774.8
30°	900.4	929.5	967.1	1008.5	1074.4	1148.7	1276.7	1379.4	1474.4	1587.8	1713.5
32.5°	856.3	879.3	911.3	953.3	1008.2	1079.4	1181.6	1306.4	1399.0	1518.5	1649.7
35°	783.9	810.8	836.8	876.7	921.1	986.2	1063.6	1197.0	1288.9	1406.9	1538.7
37.5°	724.3	740.7	769.5	801.1	848.0	896.6	963.7	1083.3	1182.7	1298.6	1433.5
40°	678.9	699.6	721.1	756.3	794.7	841.4	907.3	996.2	1110.4	1223.8	1355.6
42.5°	634.8	661.0	683.7	707.3	749.3	796.0	849.7	925.1	1041.7	1149.0	1277.1
45°	581.6	598.5	622.2	648.3	682.8	722.6	770.1	836.0	947.9	1040.6	1161.0
47.5°	519.7	544.4	559.9	585.3	618.1	656.1	700.3	757.3	847.8	934.7	1046.3
50°	477.4	502.7	524.9	547.9	577.0	613.8	650.6	705.8	778.6	869.8	974.0
52.5°	441.2	463.5	485.1	508.1	536.6	570.3	605.2	653.7	716.0	799.9	901.0
55°	391.6	405.4	427.6	450.6	475.9	508.1	541.8	582.4	636.0	706.5	788.5
57.5°	340.7	356.6	374.3	397.4	423.0	447.7	478.0	514.8	557.1	620.9	691.1
60°	311.9	324.1	338.7	362.5	386.2	408.4	437.6	468.2	508.1	563.2	623.0
62.5°	280.0	291.7	305.0	325.7	348.8	369.2	394.6	427.1	460.9	511.1	563.5
65°	226.8	243.7	256.7	275.1	294.3	315.7	335.6	361.7	391.6	431.4	478.2
67.5°	188.1	196.6	208.7	225.4	245.1	263.5	282.3	302.7	328.6	359.4	396.5
70°	170.9	174.0	176.3	192.3	210.7	229.1	246.8	265.9	288.1	313.4	345.6
72.5°	150.7	153.7	156.6	163.5	178.2	196.6	214.9	229.1	250.1	271.1	297.2
75°	119.5	124.1	126.4	130.3	135.6	147.9	164.8	178.5	190.8	206.9	227.6
77.5°	91.0	93.6	96.1	100.1	103.5	109.1	118.6	131.0	142.5	151.9	166.1
80°	72.0	72.8	75.9	77.4	82.0	85.8	90.4	100.4	111.9	115.7	125.7
82.5°	54.3	55.0	57.5	59.0	61.2	64.4	70.2	72.8	81.8	86.9	93.2
85°	29.9	29.1	31.4	31.4	33.0	34.5	36.0	39.8	42.1	48.3	49.8
87.5°	11.5	11.6	12.1	11.7	11.2	12.1	12.5	13.0	14.1	15.6	17.8
90°	11.7	12.0	11.7	9.5	7.1	5.3	4.2	3.5	2.8	1.4	0.4
92.5°	38.8	45.9	45.3	35.3	24.0	16.0	12.7	10.3	8.8	6.2	4.3
95°	121.2	138.5	122.6	81.6	50.9	34.6	26.1	20.5	17.3	13.8	12.4
97.5°	248.0	236.4	178.1	110.0	67.1	46.7	37.1	30.6	25.8	22.0	20.1
100°	330.0	279.1	192.2	115.9	72.8	54.1	44.2	37.1	31.4	28.3	27.2
102.5°	360.5	280.5	186.8	116.2	77.9	60.6	50.7	43.3	37.7	34.5	33.7
105°	355.8	261.8	176.3	118.0	86.6	70.0	60.1	52.3	47.0	44.5	43.1
107.5°	324.8	241.7	171.1	122.9	95.5	79.4	69.4	61.7	56.8	54.4	53.3
110°	305.3	232.1	170.0	126.8	101.4	85.9	75.6	68.2	63.6	61.5	60.1



TEST NUMBER: P331737

CATALOG NUMBER: SA2XXRDIP-C1005D330U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	291.7	225.9	170.2	131.1	107.1	92.1	81.5	74.4	70.1	67.7	66.3
115°	274.9	219.1	171.7	137.4	115.9	100.7	91.2	84.1	79.9	77.7	76.0
117.5°	264.3	215.7	174.3	144.2	124.0	110.0	100.1	93.3	89.5	87.4	86.0
120°	258.6	213.8	176.0	148.8	129.7	115.9	106.0	98.9	95.8	93.6	92.2
122.5°	253.8	212.6	177.9	152.7	135.0	122.1	111.9	104.9	101.4	99.3	98.2
125°	247.0	210.6	180.9	159.0	143.1	130.4	120.5	113.4	109.2	107.1	106.0
127.5°	240.6	209.4	183.9	164.9	150.6	138.2	128.0	121.3	116.6	113.6	112.2
130°	236.4	208.8	186.2	168.5	155.1	142.7	132.9	125.8	120.8	117.3	115.9
132.5°	233.0	208.5	188.5	172.2	159.1	147.3	137.4	130.0	124.8	121.0	119.3
135°	228.2	208.1	191.2	177.0	164.7	153.3	143.5	135.3	130.0	125.8	124.4
137.5°	224.9	208.0	193.6	180.7	169.2	158.0	148.8	140.8	135.1	130.9	129.2
140°	222.9	207.8	194.7	182.7	171.7	161.1	151.9	144.2	138.5	134.3	132.9
142.5°	221.0	207.8	195.5	184.4	173.7	163.4	154.8	147.3	141.6	137.7	136.5
145°	218.4	207.0	196.4	186.6	176.7	167.1	159.4	152.3	147.0	143.5	142.0
147.5°	215.7	205.8	196.7	187.8	179.1	170.1	163.2	157.3	152.4	149.0	148.0
150°	213.4	204.9	196.4	188.3	180.2	172.1	165.7	160.4	155.8	153.0	151.9
152.5°	211.4	203.5	195.9	188.6	181.3	174.0	168.3	163.2	159.2	156.4	155.9
155°	207.8	201.0	195.0	189.0	183.0	177.0	171.7	167.8	163.9	161.8	161.5
157.5°	204.3	198.5	193.4	189.0	184.2	179.1	174.7	171.6	168.2	166.5	166.1
160°	201.7	196.8	192.6	189.0	184.8	180.6	176.7	173.8	171.0	169.6	169.2
162.5°	199.5	195.4	191.7	188.7	185.1	181.4	178.4	175.8	173.6	172.1	172.4
165°	195.7	192.6	190.1	188.0	185.5	182.3	180.2	178.4	176.3	175.6	176.0
167.5°	192.1	190.1	188.5	187.5	185.4	183.1	181.8	180.5	179.1	178.5	178.9
170°	190.1	188.7	187.6	186.9	185.1	183.4	182.3	181.6	180.6	180.2	180.9
172.5°	188.1	187.0	186.5	186.1	184.9	183.7	182.9	182.5	181.4	181.6	182.0
175°	185.5	185.1	184.8	185.1	184.4	183.7	183.4	183.4	182.7	183.0	183.4
177.5°	184.0	183.7	184.0	184.6	184.0	183.7	183.7	183.7	183.2	183.4	184.0
180°	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7





TEST NUMBER: P331737

CATALOG NUMBER: SA2XXRDIP-C1005D330U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2218.3	2220.1	2232.4	2237.9	2249.0	2253.2	2258.2	2256.9	2256.9	2259.4	2276.5
5°	2223.1	2238.4	2261.4	2283.6	2305.1	2323.4	2335.7	2348.0	2352.6	2374.8	2394.7
7.5°	2215.1	2243.3	2281.3	2315.2	2355.8	2387.5	2413.9	2437.6	2453.9	2486.2	2519.3
10°	2204.7	2244.5	2287.4	2331.1	2387.0	2429.2	2472.1	2505.1	2515.8	2564.1	2591.7
12.5°	2183.8	2237.2	2291.7	2348.3	2403.0	2461.1	2508.3	2541.2	2578.9	2622.3	2673.2
15°	2152.6	2213.9	2285.1	2357.9	2436.1	2506.6	2557.2	2614.6	2656.0	2703.5	2748.0
17.5°	2107.7	2186.6	2277.2	2361.5	2451.9	2527.6	2597.2	2652.3	2681.5	2708.6	2715.2
20°	2072.1	2157.2	2263.7	2363.3	2453.7	2541.1	2610.0	2656.0	2663.7	2664.4	2623.8
22.5°	2033.5	2129.6	2241.0	2343.1	2451.3	2548.4	2602.1	2621.7	2591.3	2539.4	2460.8
25°	1962.5	2073.6	2203.1	2319.6	2437.6	2529.6	2548.0	2513.5	2407.0	2295.1	2153.3
27.5°	1885.6	2010.5	2149.3	2278.8	2404.5	2461.5	2421.8	2297.5	2105.7	1938.9	1736.8
30°	1829.2	1969.4	2105.8	2250.6	2367.1	2391.6	2300.5	2117.3	1893.5	1642.2	1440.7
32.5°	1764.8	1911.8	2061.7	2211.4	2308.9	2285.0	2134.3	1908.9	1646.5	1399.4	1208.9
35°	1672.8	1824.6	1986.3	2136.5	2198.5	2095.1	1869.8	1576.3	1308.1	1077.4	946.4
37.5°	1566.6	1731.9	1900.0	2037.9	2033.5	1861.1	1554.2	1251.2	1025.8	889.4	796.0
40°	1491.2	1658.3	1839.9	1956.4	1906.6	1682.0	1349.5	1063.6	898.9	790.1	721.9
42.5°	1418.9	1586.6	1767.0	1859.5	1772.9	1496.9	1165.6	941.6	805.7	720.8	665.5
45°	1295.8	1472.8	1639.9	1691.2	1536.4	1232.2	942.6	780.1	689.7	626.8	588.5
47.5°	1175.5	1349.6	1502.1	1503.0	1293.7	999.3	795.1	675.1	597.9	549.3	521.4
50°	1101.9	1267.5	1395.4	1375.5	1138.0	888.9	711.1	607.7	543.3	505.8	476.6
52.5°	1019.2	1179.8	1290.6	1233.9	1006.2	782.2	635.7	548.8	495.5	462.8	436.8
55°	898.9	1041.4	1119.6	1033.7	820.7	650.6	537.2	469.0	429.1	401.5	379.3
57.5°	780.7	898.3	947.5	847.5	676.0	539.5	454.4	403.2	363.7	343.9	332.4
60°	706.5	806.9	841.4	731.1	587.8	472.0	402.3	354.8	325.7	312.7	301.2
62.5°	633.6	715.6	729.8	628.7	512.4	413.2	353.3	313.1	293.8	281.4	270.5
65°	525.7	584.7	577.8	496.6	405.4	328.0	284.3	259.8	245.2	227.6	208.4
67.5°	432.8	468.8	447.1	386.2	309.4	254.9	226.4	207.8	189.7	173.0	168.6
70°	374.0	394.6	371.7	315.7	253.6	213.8	190.8	168.6	157.9	154.0	147.1
72.5°	317.6	324.8	299.9	252.0	206.4	177.0	154.6	142.2	136.4	133.2	128.7
75°	238.3	233.0	211.5	174.0	143.3	123.4	116.5	111.9	108.0	105.0	102.7
77.5°	167.4	159.5	140.4	115.9	99.8	90.3	86.1	83.7	81.8	80.3	78.0
80°	125.7	120.3	101.2	82.8	75.9	71.3	69.0	65.9	65.9	64.4	62.1
82.5°	92.0	86.0	69.3	60.7	56.9	54.1	52.4	50.6	50.0	50.3	48.6
85°	48.3	39.1	34.5	33.0	30.7	29.1	29.9	28.4	28.4	28.4	27.6
87.5°	15.0	12.2	11.7	11.3	12.1	12.4	12.3	12.8	13.4	12.8	13.3
90°	1.4	2.8	3.5	4.2	5.3	7.1	9.5	11.7	12.0	11.7	11.3
92.5°	6.2	8.8	10.3	12.7	16.0	24.0	35.3	45.3	45.9	38.8	30.8
95°	13.8	17.3	20.5	26.1	34.6	50.9	81.6	122.6	138.5	121.2	92.6
97.5°	22.0	25.8	30.6	37.1	46.7	67.1	110.0	178.1	236.4	248.0	216.0
100°	28.3	31.4	37.1	44.2	54.1	72.8	115.9	192.2	279.1	330.0	322.6
102.5°	34.5	37.7	43.3	50.7	60.6	77.9	116.2	186.8	280.5	360.5	392.4
105°	44.5	47.0	52.3	60.1	70.0	86.6	118.0	176.3	261.8	355.8	429.3
107.5°	54.4	56.8	61.7	69.4	79.4	95.5	122.9	171.1	241.7	324.8	402.7
110°	61.5	63.6	68.2	75.6	85.9	101.4	126.8	170.0	232.1	305.3	379.8





TEST NUMBER: P331737

CATALOG NUMBER: SA2XXRDIP-C1005D330U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	67.7	70.1	74.4	81.5	92.1	107.1	131.1	170.2	225.9	291.7	358.9
115°	77.7	79.9	84.1	91.2	100.7	115.9	137.4	171.7	219.1	274.9	333.2
117.5°	87.4	89.5	93.3	100.1	110.0	124.0	144.2	174.3	215.7	264.3	313.8
120°	93.6	95.8	98.9	106.0	115.9	129.7	148.8	176.0	213.8	258.6	304.2
122.5°	99.3	101.4	104.9	111.9	122.1	135.0	152.7	177.9	212.6	253.8	296.6
125°	107.1	109.2	113.4	120.5	130.4	143.1	159.0	180.9	210.6	247.0	285.5
127.5°	113.6	116.6	121.3	128.0	138.2	150.6	164.9	183.9	209.4	240.6	274.5
130°	117.3	120.8	125.8	132.9	142.7	155.1	168.5	186.2	208.8	236.4	267.5
132.5°	121.0	124.8	130.0	137.4	147.3	159.1	172.2	188.5	208.5	233.0	260.7
135°	125.8	130.0	135.3	143.5	153.3	164.7	177.0	191.2	208.1	228.2	251.2
137.5°	130.9	135.1	140.8	148.8	158.0	169.2	180.7	193.6	208.0	224.9	243.7
140°	134.3	138.5	144.2	151.9	161.1	171.7	182.7	194.7	207.8	222.9	238.8
142.5°	137.7	141.6	147.3	154.8	163.4	173.7	184.4	195.5	207.8	221.0	234.9
145°	143.5	147.0	152.3	159.4	167.1	176.7	186.6	196.4	207.0	218.4	229.3
147.5°	149.0	152.4	157.3	163.2	170.1	179.1	187.8	196.7	205.8	215.7	225.0
150°	153.0	155.8	160.4	165.7	172.1	180.2	188.3	196.4	204.9	213.4	221.9
152.5°	156.4	159.2	163.2	168.3	174.0	181.3	188.6	195.9	203.5	211.4	218.8
155°	161.8	163.9	167.8	171.7	177.0	183.0	189.0	195.0	201.0	207.8	214.5
157.5°	166.5	168.2	171.6	174.7	179.1	184.2	189.0	193.4	198.5	204.3	209.5
160°	169.6	171.0	173.8	176.7	180.6	184.8	189.0	192.6	196.8	201.7	206.3
162.5°	172.1	173.6	175.8	178.4	181.4	185.1	188.7	191.7	195.4	199.5	203.2
165°	175.6	176.3	178.4	180.2	182.3	185.5	188.0	190.1	192.6	195.7	198.6
167.5°	178.5	179.1	180.5	181.8	183.1	185.4	187.5	188.5	190.1	192.1	194.1
170°	180.2	180.6	181.6	182.3	183.4	185.1	186.9	187.6	188.7	190.1	191.9
172.5°	181.6	181.4	182.5	182.9	183.7	184.9	186.1	186.5	187.0	188.1	189.3
175°	183.0	182.7	183.4	183.4	183.7	184.4	185.1	184.8	185.1	185.5	186.6
177.5°	183.4	183.2	183.7	183.7	183.7	184.0	184.6	184.0	183.7	184.0	184.6
180°	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7



TEST NUMBER: P331737

CATALOG NUMBER: SA2XXRDIP-C1005D330U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2282.7	2290.6	2294.3	2294.3	2298.6	2296.8	2294.9
5°	2413.9	2428.4	2431.5	2445.3	2455.2	2452.2	2453.7
7.5°	2544.3	2567.7	2590.9	2601.5	2603.1	2609.3	2611.6
10°	2624.6	2643.8	2679.8	2674.4	2701.2	2716.6	2691.3
12.5°	2701.8	2727.7	2752.7	2759.6	2774.8	2779.7	2769.7
15°	2771.7	2785.5	2787.1	2783.2	2787.8	2784.0	2769.4
17.5°	2706.4	2684.1	2638.7	2617.2	2600.2	2575.1	2565.0
20°	2598.5	2532.6	2456.0	2425.4	2389.3	2318.8	2335.7
22.5°	2365.6	2290.5	2213.9	2124.4	2081.6	2014.8	2010.8
25°	2003.1	1873.6	1731.1	1631.5	1573.2	1506.6	1477.4
27.5°	1557.4	1394.4	1277.6	1218.4	1164.6	1111.8	1109.6
30°	1264.4	1141.8	1051.4	1000.8	967.8	945.6	950.2
32.5°	1065.8	981.8	920.8	878.8	854.4	837.7	837.4
35°	871.3	813.8	774.7	757.1	739.5	727.2	728.0
37.5°	745.6	711.1	689.4	669.9	658.9	652.9	649.5
40°	681.2	652.9	636.0	624.5	615.3	606.9	605.4
42.5°	630.4	606.9	590.1	581.0	572.4	566.5	564.9
45°	559.4	540.2	524.9	515.0	511.1	505.8	505.8
47.5°	497.6	478.8	466.8	460.6	454.0	450.4	450.3
50°	456.0	441.4	430.7	426.8	421.5	419.2	418.4
52.5°	418.6	407.7	400.0	397.4	395.1	392.2	392.7
55°	367.8	361.7	358.6	356.3	352.5	347.9	351.0
57.5°	325.1	319.9	311.6	304.4	300.9	297.6	298.9
60°	295.0	284.3	273.6	265.1	262.8	255.9	255.9
62.5°	257.0	242.0	228.8	224.1	221.8	218.6	217.9
65°	197.7	191.6	188.5	185.4	183.9	183.9	182.4
67.5°	163.8	161.4	158.0	157.2	155.7	155.3	154.8
70°	144.8	141.8	140.2	139.5	137.9	138.7	136.4
72.5°	126.4	124.0	123.7	121.7	120.8	120.9	119.2
75°	99.6	99.6	98.9	98.1	96.6	95.8	96.6
77.5°	76.6	76.8	75.4	75.3	75.1	75.3	74.5
80°	61.3	62.1	61.3	60.5	59.8	60.5	59.8
82.5°	48.4	47.4	47.2	47.1	46.9	46.4	46.3
85°	27.6	28.4	27.6	26.8	26.8	26.8	27.6
87.5°	12.5	12.7	12.8	12.8	12.8	12.8	12.1
90°	10.6	11.3	11.7	11.7	11.7	11.7	11.7
92.5°	26.4	23.5	21.3	21.0	19.9	20.1	19.6
95°	71.0	56.2	48.4	43.8	41.0	39.9	40.3
97.5°	176.7	138.5	113.0	96.1	87.4	82.3	79.3
100°	278.8	230.4	187.6	158.3	143.1	132.9	126.5
102.5°	382.5	347.1	301.8	269.9	244.0	231.2	222.6
105°	469.2	473.8	462.2	440.2	418.3	403.1	398.2
107.5°	462.9	499.6	516.7	519.5	518.3	515.2	508.7
110°	443.1	488.3	517.3	532.5	539.2	542.4	542.0



TEST NUMBER: P331737

CATALOG NUMBER: SA2XXRDIP-C1005D330U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	419.6	467.9	501.2	522.3	533.5	539.5	541.4
115°	387.6	433.9	470.3	495.4	511.6	520.8	524.0
117.5°	361.6	403.6	437.7	463.3	480.5	490.1	492.8
120°	348.0	385.5	417.6	442.4	459.0	469.2	472.8
122.5°	336.7	372.2	401.2	423.4	439.8	448.9	451.8
125°	321.9	353.0	379.5	400.0	413.4	422.2	425.1
127.5°	307.5	336.8	361.2	379.1	391.7	399.3	401.6
130°	297.9	325.8	349.1	366.4	378.4	385.5	388.3
132.5°	288.8	314.5	336.4	353.4	365.4	371.9	374.5
135°	274.5	297.9	317.6	332.8	344.5	350.9	352.3
137.5°	263.2	281.7	298.9	312.8	322.8	328.4	330.5
140°	255.8	272.1	287.6	298.9	308.1	313.4	315.5
142.5°	249.3	263.3	276.3	287.0	295.4	300.1	300.5
145°	241.0	251.9	262.2	270.6	276.7	280.2	281.2
147.5°	234.2	242.7	250.2	257.2	262.0	264.4	265.1
150°	229.7	237.1	243.4	248.7	253.0	255.1	255.5
152.5°	226.0	232.3	237.8	242.0	245.6	247.2	247.3
155°	220.1	225.4	229.3	233.2	235.7	237.1	236.4
157.5°	214.2	218.6	221.7	224.4	226.5	227.1	227.1
160°	210.2	214.1	216.6	219.1	220.8	221.2	221.2
162.5°	206.6	209.9	211.8	214.3	215.5	215.8	215.5
165°	201.0	203.5	204.9	206.3	207.8	207.8	207.4
167.5°	196.0	197.7	199.0	199.6	200.4	200.3	199.9
170°	192.9	194.3	195.0	195.4	196.4	196.1	195.4
172.5°	190.1	191.2	191.6	192.0	192.5	192.1	191.7
175°	186.9	187.3	187.6	187.6	188.0	187.6	186.9
177.5°	184.6	184.9	184.9	184.9	184.9	184.6	184.0
180°	183.7	183.7	183.7	183.7	183.7	183.7	183.7

(END OF REPORT)