

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: P331749

Luminaire Tested: **SA2XXRDIP-C1005D725U835-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331749
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-C1005D725U835-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 725 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6643.7 lumens
Efficiency: N/A
Efficacy: 109.5 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: General Diffuse

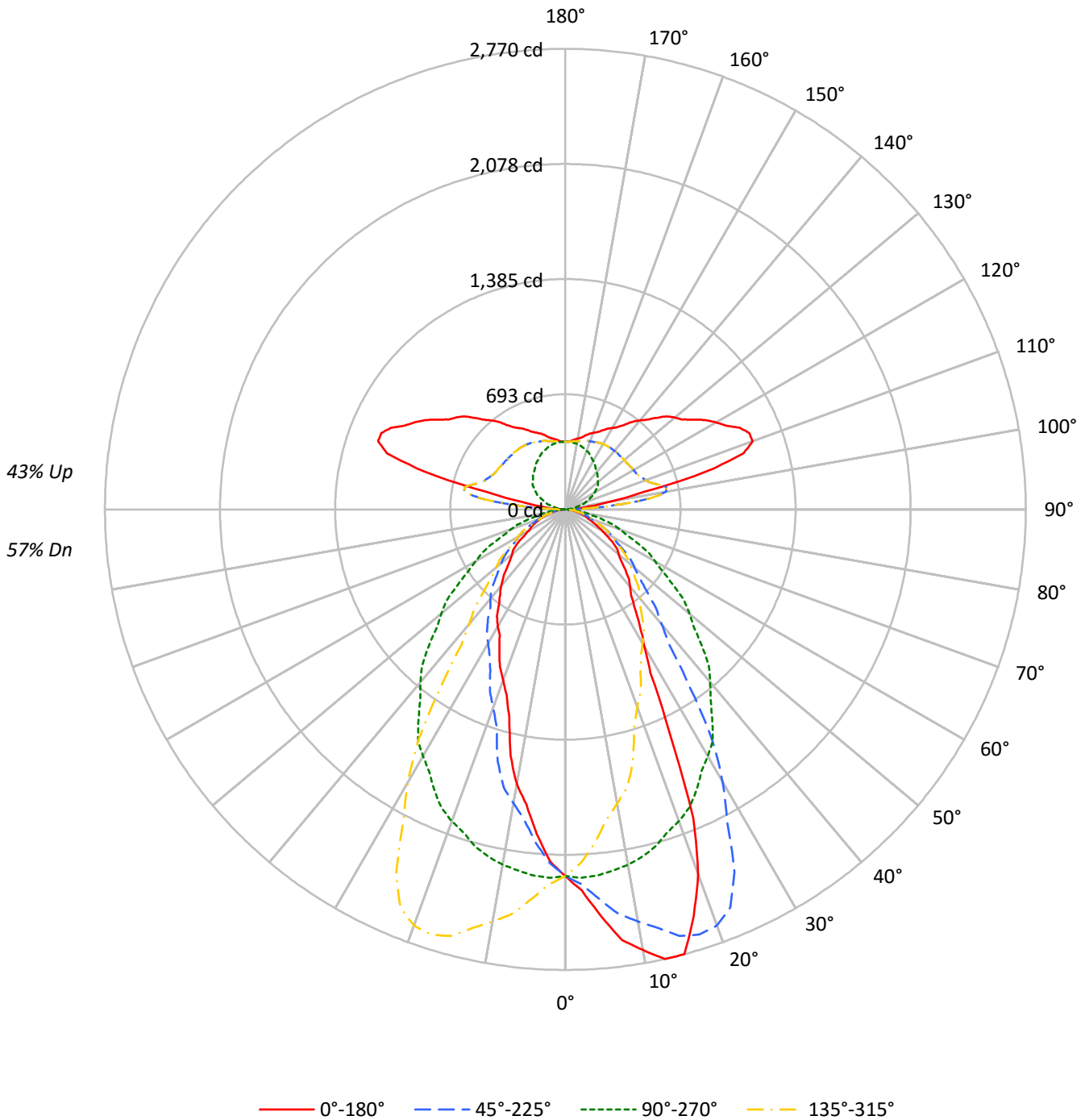
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	109	109	109	101	101	101	101	87	87	87	75	75	75	63	63	63	57	57	57	57	
1	100	96	93	89	93	90	87	84	78	76	74	67	65	64	57	56	55	50	50	50	50	
2	92	85	79	75	86	80	75	70	69	66	63	60	57	55	51	49	48	43	43	43	43	
3	85	76	69	63	79	71	65	60	62	58	54	54	51	48	46	44	42	38	38	38	38	
4	78	68	60	55	73	64	57	52	56	51	47	49	45	42	42	39	37	34	34	34	34	
5	72	61	53	48	67	57	51	45	51	45	41	44	40	37	39	35	33	30	30	30	30	
6	67	55	48	42	62	52	45	40	46	41	37	41	36	33	35	32	29	27	27	27	27	
7	62	50	43	37	58	48	41	36	42	37	33	37	33	30	33	29	27	24	24	24	24	
8	58	46	39	33	54	44	37	32	39	33	29	34	30	27	30	27	24	22	22	22	22	
9	54	42	35	30	51	40	34	29	36	31	27	32	28	25	28	25	22	20	20	20	20	
10	51	39	32	27	48	37	31	26	33	28	24	30	25	22	26	23	21	19	19	19	19	

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.1	3.1
10°-20°	582.5	8.8
20°-30°	750.7	11.3
30°-40°	713.4	10.7
40°-50°	611.1	9.2
50°-60°	465.4	7.0
60°-70°	294.2	4.4
70°-80°	146.9	2.2
80°-90°	41.9	0.6
90°-100°	162.5	2.4
100°-110°	551.5	8.3
110°-120°	585.9	8.8
120°-130°	482.3	7.3
130°-140°	387.3	5.8
140°-150°	292.7	4.4
150°-160°	205.7	3.1
160°-170°	121.1	1.8
170°-180°	39.4	0.6
0°-30°	1542.3	23.2
0°-40°	2255.7	34.0
0°-60°	3332.1	50.2
0°-90°	3815.1	57.4
90°-120°	1300.0	19.6
90°-150°	2462.4	37.1
90°-180°	2829.0	42.6
0°-180°	6643.7	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°	26	1	26	1	26	15
95°	89	27	89	27	89	116
105°	881	95	881	95	881	852
115°	1159	168	1159	168	1159	1135
125°	940	234	940	234	940	850
135°	779	275	779	275	779	605
145°	622	314	622	314	622	395
155°	523	357	523	357	523	244
165°	459	389	459	389	459	131
175°	414	406	414	406	414	40
180°	406	406	406	406	406	



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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°	15.0	15.6	15.6	15.6	15.6	15.4	15.1	16.0	15.6	16.4	15.6
90°	25.8	25.8	25.8	25.8	25.8	25.0	23.5	25.0	25.8	26.6	25.8
92.5°	43.3	44.6	43.9	46.4	47.1	51.9	58.5	68.2	85.8	101.6	100.2
95°	89.1	88.3	90.7	96.9	107.1	124.3	157.1	204.8	268.1	306.4	271.3
97.5°	175.4	182.0	193.4	212.6	250.0	306.4	391.0	477.9	548.8	523.1	394.0
100°	279.8	293.9	316.6	350.2	415.1	509.7	616.8	713.7	730.1	617.5	425.2
102.5°	492.5	511.5	539.8	597.2	667.7	767.9	846.3	868.2	797.6	620.7	413.4
105°	881.0	891.9	925.5	974.0	1022.5	1048.3	1038.1	949.8	787.2	579.2	390.1
107.5°	1125.3	1139.9	1146.6	1149.3	1143.2	1105.3	1024.0	891.0	718.5	534.8	378.5
110°	1199.1	1199.9	1192.9	1178.0	1144.4	1080.3	980.3	840.3	675.4	513.6	376.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1197.9	1193.7	1180.4	1155.5	1108.8	1035.3	928.3	794.1	645.4	499.8	376.6
115°	1159.3	1152.2	1131.9	1095.9	1040.4	959.9	857.5	737.1	608.2	484.7	379.9
117.5°	1090.3	1084.4	1063.0	1025.0	968.4	892.9	800.0	694.3	584.7	477.3	385.5
120°	1045.9	1038.1	1015.4	978.7	924.0	852.8	770.0	673.0	572.2	472.9	389.3
122.5°	999.6	993.1	972.9	936.8	887.7	823.4	745.0	656.2	561.6	470.4	393.7
125°	940.4	934.1	914.6	884.9	839.5	780.9	712.1	631.6	546.4	465.9	400.2
127.5°	888.5	883.5	866.6	838.8	799.2	745.1	680.2	607.4	532.3	463.2	407.0
130°	859.1	852.8	837.2	810.6	772.3	720.7	659.0	591.7	523.0	462.0	412.0
132.5°	828.4	822.8	808.4	781.9	744.2	695.7	639.0	576.7	515.5	461.4	417.0
135°	779.4	776.2	762.2	736.4	702.7	659.0	607.4	555.8	505.0	460.4	422.9
137.5°	731.2	726.5	714.2	692.0	661.3	623.2	582.2	539.1	497.6	460.3	428.2
140°	698.1	693.4	681.6	661.3	636.3	601.9	566.0	528.4	493.3	459.6	430.7
142.5°	664.9	664.0	653.5	635.1	611.3	582.5	551.6	519.7	488.9	459.6	432.6
145°	622.2	619.9	612.1	598.8	580.0	557.4	533.1	507.3	483.1	458.1	434.6
147.5°	586.4	585.0	579.7	569.1	553.6	537.0	518.1	497.8	477.2	455.3	435.3
150°	565.2	564.4	559.7	550.3	538.6	524.5	508.1	490.9	472.1	453.4	434.6
152.5°	547.0	546.9	543.4	535.3	526.1	513.9	500.0	484.0	467.8	450.3	433.4
155°	523.0	524.5	521.4	515.9	507.3	498.7	487.0	474.5	459.6	444.8	431.5
157.5°	502.5	502.5	501.1	496.5	490.4	483.7	473.9	463.4	452.0	439.2	427.9
160°	489.3	489.3	488.6	484.7	479.2	473.7	465.1	456.5	446.4	435.4	426.0
162.5°	476.8	477.5	476.7	474.0	468.6	464.3	457.0	449.6	441.3	432.3	424.2
165°	458.9	459.6	459.6	456.5	453.4	450.3	444.8	439.3	433.1	426.0	420.6
167.5°	442.3	443.2	443.4	441.7	440.3	437.4	433.7	429.5	424.9	420.6	417.0
170°	432.3	433.8	434.6	432.3	431.5	429.9	426.8	424.5	420.6	417.4	415.1
172.5°	424.2	425.1	425.9	424.8	424.0	423.1	420.6	418.8	416.2	413.7	412.6
175°	413.5	415.1	415.9	415.1	415.1	414.3	413.5	412.7	410.4	409.6	408.8
177.5°	407.1	408.4	409.0	409.0	409.0	409.0	408.4	408.4	407.1	406.5	407.1
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5



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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°	14.6	14.2	13.4	12.3	12.6	12.9	15.3	17.9	16.0	14.7	13.8
90°	21.1	15.6	11.7	9.4	7.8	6.3	3.1	0.8	3.1	6.3	7.8
92.5°	78.0	53.2	35.5	28.1	22.8	19.4	13.8	9.5	13.8	19.4	22.8
95°	180.6	112.6	76.6	57.8	45.3	38.3	30.5	27.4	30.5	38.3	45.3
97.5°	243.3	148.5	103.3	82.1	67.7	57.1	48.8	44.6	48.8	57.1	67.7
100°	256.4	161.0	119.6	97.7	82.1	69.6	62.5	60.2	62.5	69.6	82.1
102.5°	257.0	172.3	134.0	112.1	95.8	83.3	76.3	74.6	76.3	83.3	95.8
105°	261.1	191.5	154.8	132.9	115.7	104.0	98.5	95.4	98.5	104.0	115.7
107.5°	271.9	211.2	175.6	153.5	136.5	125.7	120.4	117.9	120.4	125.7	136.5
110°	280.6	224.3	190.0	167.3	150.9	140.7	136.0	132.9	136.0	140.7	150.9



TEST NUMBER: P331749

CATALOG NUMBER: SA2XXRDIP-C1005D725U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	290.0	236.9	203.7	180.4	164.6	155.1	149.8	146.6	149.8	155.1	164.6
115°	304.1	256.4	222.8	201.7	186.0	176.7	172.0	168.1	172.0	176.7	186.0
117.5°	319.1	274.4	243.3	221.4	206.4	198.1	193.4	190.3	193.4	198.1	206.4
120°	329.1	286.9	256.4	234.5	218.9	211.8	207.2	204.0	207.2	211.8	218.9
122.5°	337.9	298.8	270.2	247.6	232.0	224.3	219.7	217.2	219.7	224.3	232.0
125°	351.8	316.6	288.4	266.6	250.9	241.5	236.9	234.5	236.9	241.5	250.9
127.5°	364.7	333.2	305.8	283.3	268.3	258.0	251.4	248.3	251.4	258.0	268.3
130°	372.9	343.2	315.8	293.9	278.3	267.3	259.5	256.4	259.5	267.3	278.3
132.5°	381.0	351.9	325.8	303.9	287.7	276.1	267.7	263.9	267.7	276.1	287.7
135°	391.6	364.3	339.3	317.4	299.4	287.7	278.3	275.2	278.3	287.7	299.4
137.5°	399.8	374.3	349.6	329.3	311.4	298.9	289.5	285.8	289.5	298.9	311.4
140°	404.1	379.9	356.5	336.1	318.9	306.4	297.0	293.9	297.0	306.4	318.9
142.5°	407.9	384.3	361.5	342.4	325.8	313.3	304.6	302.0	304.6	313.3	325.8
145°	412.7	390.9	369.7	352.5	336.9	325.2	317.4	314.2	317.4	325.2	336.9
147.5°	415.4	396.2	376.3	361.0	348.0	337.2	329.7	327.4	329.7	337.2	348.0
150°	416.6	398.7	380.7	366.6	354.9	344.7	338.5	336.1	338.5	344.7	354.9
152.5°	417.3	401.2	385.1	372.2	361.1	352.2	346.0	344.9	346.0	352.2	361.1
155°	418.2	404.9	391.6	379.9	371.3	362.7	358.0	357.2	358.0	362.7	371.3
157.5°	418.2	407.6	396.3	386.5	379.6	372.1	368.3	367.6	368.3	372.1	379.6
160°	418.2	408.8	399.4	390.9	384.6	378.3	375.2	374.4	375.2	378.3	384.6
162.5°	417.6	409.5	401.3	394.6	389.0	384.0	380.8	381.3	380.8	384.0	389.0
165°	415.9	410.4	403.4	398.7	394.8	390.1	388.5	389.3	388.5	390.1	394.8
167.5°	414.8	410.2	405.1	402.1	399.3	396.3	394.9	395.9	394.9	396.3	399.3
170°	413.5	409.6	405.7	403.4	401.8	399.4	398.7	400.2	398.7	399.4	401.8
172.5°	411.6	409.0	406.3	404.6	403.7	401.3	401.8	402.7	401.8	401.3	403.7
175°	409.6	408.0	406.5	405.7	405.7	404.1	404.9	405.7	404.9	404.1	405.7
177.5°	408.4	407.1	406.5	406.5	406.5	405.2	405.9	407.1	405.9	405.2	406.5
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5



TEST NUMBER: P331749

CATALOG NUMBER: SA2XXRDIP-C1005D725U835-4F0-1E-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°	13.5	13.4	12.9	14.0	15.0	14.5	14.4	13.6	13.3	13.6	13.1
90°	9.4	11.7	15.6	21.1	25.8	26.6	25.8	25.0	23.5	25.0	25.8
92.5°	28.1	35.5	53.2	78.0	100.2	101.6	85.8	68.2	58.5	51.9	47.1
95°	57.8	76.6	112.6	180.6	271.3	306.4	268.1	204.8	157.1	124.3	107.1
97.5°	82.1	103.3	148.5	243.3	394.0	523.1	548.8	477.9	391.0	306.4	250.0
100°	97.7	119.6	161.0	256.4	425.2	617.5	730.1	713.7	616.8	509.7	415.1
102.5°	112.1	134.0	172.3	257.0	413.4	620.7	797.6	868.2	846.3	767.9	667.7
105°	132.9	154.8	191.5	261.1	390.1	579.2	787.2	949.8	1038.1	1048.3	1022.5
107.5°	153.5	175.6	211.2	271.9	378.5	534.8	718.5	891.0	1024.0	1105.3	1143.2
110°	167.3	190.0	224.3	280.6	376.0	513.6	675.4	840.3	980.3	1080.3	1144.4



TEST NUMBER: P331749

CATALOG NUMBER: SA2XXRDIP-C1005D725U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	180.4	203.7	236.9	290.0	376.6	499.8	645.4	794.1	928.3	1035.3	1108.8
115°	201.7	222.8	256.4	304.1	379.9	484.7	608.2	737.1	857.5	959.9	1040.4
117.5°	221.4	243.3	274.4	319.1	385.5	477.3	584.7	694.3	800.0	892.9	968.4
120°	234.5	256.4	286.9	329.1	389.3	472.9	572.2	673.0	770.0	852.8	924.0
122.5°	247.6	270.2	298.8	337.9	393.7	470.4	561.6	656.2	745.0	823.4	887.7
125°	266.6	288.4	316.6	351.8	400.2	465.9	546.4	631.6	712.1	780.9	839.5
127.5°	283.3	305.8	333.2	364.7	407.0	463.2	532.3	607.4	680.2	745.1	799.2
130°	293.9	315.8	343.2	372.9	412.0	462.0	523.0	591.7	659.0	720.7	772.3
132.5°	303.9	325.8	351.9	381.0	417.0	461.4	515.5	576.7	639.0	695.7	744.2
135°	317.4	339.3	364.3	391.6	422.9	460.4	505.0	555.8	607.4	659.0	702.7
137.5°	329.3	349.6	374.3	399.8	428.2	460.3	497.6	539.1	582.2	623.2	661.3
140°	336.1	356.5	379.9	404.1	430.7	459.6	493.3	528.4	566.0	601.9	636.3
142.5°	342.4	361.5	384.3	407.9	432.6	459.6	488.9	519.7	551.6	582.5	611.3
145°	352.5	369.7	390.9	412.7	434.6	458.1	483.1	507.3	533.1	557.4	580.0
147.5°	361.0	376.3	396.2	415.4	435.3	455.3	477.2	497.8	518.1	537.0	553.6
150°	366.6	380.7	398.7	416.6	434.6	453.4	472.1	490.9	508.1	524.5	538.6
152.5°	372.2	385.1	401.2	417.3	433.4	450.3	467.8	484.0	500.0	513.9	526.1
155°	379.9	391.6	404.9	418.2	431.5	444.8	459.6	474.5	487.0	498.7	507.3
157.5°	386.5	396.3	407.6	418.2	427.9	439.2	452.0	463.4	473.9	483.7	490.4
160°	390.9	399.4	408.8	418.2	426.0	435.4	446.4	456.5	465.1	473.7	479.2
162.5°	394.6	401.3	409.5	417.6	424.2	432.3	441.3	449.6	457.0	464.3	468.6
165°	398.7	403.4	410.4	415.9	420.6	426.0	433.1	439.3	444.8	450.3	453.4
167.5°	402.1	405.1	410.2	414.8	417.0	420.6	424.9	429.5	433.7	437.4	440.3
170°	403.4	405.7	409.6	413.5	415.1	417.4	420.6	424.5	426.8	429.9	431.5
172.5°	404.6	406.3	409.0	411.6	412.6	413.7	416.2	418.8	420.6	423.1	424.0
175°	405.7	406.5	408.0	409.6	408.8	409.6	410.4	412.7	413.5	414.3	415.1
177.5°	406.5	406.5	407.1	408.4	407.1	406.5	407.1	408.4	408.4	409.0	409.0
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5



TEST NUMBER: P331749

CATALOG NUMBER: SA2XXRDIP-C1005D725U835-4F0-1E-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°	13.1	12.5	13.1	12.5	13.1	12.5	13.1	13.1	13.6	13.3	13.6
90°	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.0	23.5	25.0
92.5°	46.4	43.9	44.6	43.3	44.6	43.9	46.4	47.1	51.9	58.5	68.2
95°	96.9	90.7	88.3	89.1	88.3	90.7	96.9	107.1	124.3	157.1	204.8
97.5°	212.6	193.4	182.0	175.4	182.0	193.4	212.6	250.0	306.4	391.0	477.9
100°	350.2	316.6	293.9	279.8	293.9	316.6	350.2	415.1	509.7	616.8	713.7
102.5°	597.2	539.8	511.5	492.5	511.5	539.8	597.2	667.7	767.9	846.3	868.2
105°	974.0	925.5	891.9	881.0	891.9	925.5	974.0	1022.5	1048.3	1038.1	949.8
107.5°	1149.3	1146.6	1139.9	1125.3	1139.9	1146.6	1149.3	1143.2	1105.3	1024.0	891.0
110°	1178.0	1192.9	1199.9	1199.1	1199.9	1192.9	1178.0	1144.4	1080.3	980.3	840.3



TEST NUMBER: P331749

CATALOG NUMBER: SA2XXRDIP-C1005D725U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1155.5	1180.4	1193.7	1197.9	1193.7	1180.4	1155.5	1108.8	1035.3	928.3	794.1
115°	1095.9	1131.9	1152.2	1159.3	1152.2	1131.9	1095.9	1040.4	959.9	857.5	737.1
117.5°	1025.0	1063.0	1084.4	1090.3	1084.4	1063.0	1025.0	968.4	892.9	800.0	694.3
120°	978.7	1015.4	1038.1	1045.9	1038.1	1015.4	978.7	924.0	852.8	770.0	673.0
122.5°	936.8	972.9	993.1	999.6	993.1	972.9	936.8	887.7	823.4	745.0	656.2
125°	884.9	914.6	934.1	940.4	934.1	914.6	884.9	839.5	780.9	712.1	631.6
127.5°	838.8	866.6	883.5	888.5	883.5	866.6	838.8	799.2	745.1	680.2	607.4
130°	810.6	837.2	852.8	859.1	852.8	837.2	810.6	772.3	720.7	659.0	591.7
132.5°	781.9	808.4	822.8	828.4	822.8	808.4	781.9	744.2	695.7	639.0	576.7
135°	736.4	762.2	776.2	779.4	776.2	762.2	736.4	702.7	659.0	607.4	555.8
137.5°	692.0	714.2	726.5	731.2	726.5	714.2	692.0	661.3	623.2	582.2	539.1
140°	661.3	681.6	693.4	698.1	693.4	681.6	661.3	636.3	601.9	566.0	528.4
142.5°	635.1	653.5	664.0	664.9	664.0	653.5	635.1	611.3	582.5	551.6	519.7
145°	598.8	612.1	619.9	622.2	619.9	612.1	598.8	580.0	557.4	533.1	507.3
147.5°	569.1	579.7	585.0	586.4	585.0	579.7	569.1	553.6	537.0	518.1	497.8
150°	550.3	559.7	564.4	565.2	564.4	559.7	550.3	538.6	524.5	508.1	490.9
152.5°	535.3	543.4	546.9	547.0	546.9	543.4	535.3	526.1	513.9	500.0	484.0
155°	515.9	521.4	524.5	523.0	524.5	521.4	515.9	507.3	498.7	487.0	474.5
157.5°	496.5	501.1	502.5	502.5	502.5	501.1	496.5	490.4	483.7	473.9	463.4
160°	484.7	488.6	489.3	489.3	489.3	488.6	484.7	479.2	473.7	465.1	456.5
162.5°	474.0	476.7	477.5	476.8	477.5	476.7	474.0	468.6	464.3	457.0	449.6
165°	456.5	459.6	459.6	458.9	459.6	459.6	456.5	453.4	450.3	444.8	439.3
167.5°	441.7	443.4	443.2	442.3	443.2	443.4	441.7	440.3	437.4	433.7	429.5
170°	432.3	434.6	433.8	432.3	433.8	434.6	432.3	431.5	429.9	426.8	424.5
172.5°	424.8	425.9	425.1	424.2	425.1	425.9	424.8	424.0	423.1	420.6	418.8
175°	415.1	415.9	415.1	413.5	415.1	415.9	415.1	415.1	414.3	413.5	412.7
177.5°	409.0	409.0	408.4	407.1	408.4	409.0	409.0	409.0	409.0	408.4	408.4
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5



TEST NUMBER: P331749

CATALOG NUMBER: SA2XXRDIP-C1005D725U835-4F0-1E-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°	14.4	14.5	15.0	14.0	12.9	13.4	13.5	13.8	14.7	16.0	17.9
90°	25.8	26.6	25.8	21.1	15.6	11.7	9.4	7.8	6.3	3.1	0.8
92.5°	85.8	101.6	100.2	78.0	53.2	35.5	28.1	22.8	19.4	13.8	9.5
95°	268.1	306.4	271.3	180.6	112.6	76.6	57.8	45.3	38.3	30.5	27.4
97.5°	548.8	523.1	394.0	243.3	148.5	103.3	82.1	67.7	57.1	48.8	44.6
100°	730.1	617.5	425.2	256.4	161.0	119.6	97.7	82.1	69.6	62.5	60.2
102.5°	797.6	620.7	413.4	257.0	172.3	134.0	112.1	95.8	83.3	76.3	74.6
105°	787.2	579.2	390.1	261.1	191.5	154.8	132.9	115.7	104.0	98.5	95.4
107.5°	718.5	534.8	378.5	271.9	211.2	175.6	153.5	136.5	125.7	120.4	117.9
110°	675.4	513.6	376.0	280.6	224.3	190.0	167.3	150.9	140.7	136.0	132.9



TEST NUMBER: P331749

CATALOG NUMBER: SA2XXRDIP-C1005D725U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	645.4	499.8	376.6	290.0	236.9	203.7	180.4	164.6	155.1	149.8	146.6
115°	608.2	484.7	379.9	304.1	256.4	222.8	201.7	186.0	176.7	172.0	168.1
117.5°	584.7	477.3	385.5	319.1	274.4	243.3	221.4	206.4	198.1	193.4	190.3
120°	572.2	472.9	389.3	329.1	286.9	256.4	234.5	218.9	211.8	207.2	204.0
122.5°	561.6	470.4	393.7	337.9	298.8	270.2	247.6	232.0	224.3	219.7	217.2
125°	546.4	465.9	400.2	351.8	316.6	288.4	266.6	250.9	241.5	236.9	234.5
127.5°	532.3	463.2	407.0	364.7	333.2	305.8	283.3	268.3	258.0	251.4	248.3
130°	523.0	462.0	412.0	372.9	343.2	315.8	293.9	278.3	267.3	259.5	256.4
132.5°	515.5	461.4	417.0	381.0	351.9	325.8	303.9	287.7	276.1	267.7	263.9
135°	505.0	460.4	422.9	391.6	364.3	339.3	317.4	299.4	287.7	278.3	275.2
137.5°	497.6	460.3	428.2	399.8	374.3	349.6	329.3	311.4	298.9	289.5	285.8
140°	493.3	459.6	430.7	404.1	379.9	356.5	336.1	318.9	306.4	297.0	293.9
142.5°	488.9	459.6	432.6	407.9	384.3	361.5	342.4	325.8	313.3	304.6	302.0
145°	483.1	458.1	434.6	412.7	390.9	369.7	352.5	336.9	325.2	317.4	314.2
147.5°	477.2	455.3	435.3	415.4	396.2	376.3	361.0	348.0	337.2	329.7	327.4
150°	472.1	453.4	434.6	416.6	398.7	380.7	366.6	354.9	344.7	338.5	336.1
152.5°	467.8	450.3	433.4	417.3	401.2	385.1	372.2	361.1	352.2	346.0	344.9
155°	459.6	444.8	431.5	418.2	404.9	391.6	379.9	371.3	362.7	358.0	357.2
157.5°	452.0	439.2	427.9	418.2	407.6	396.3	386.5	379.6	372.1	368.3	367.6
160°	446.4	435.4	426.0	418.2	408.8	399.4	390.9	384.6	378.3	375.2	374.4
162.5°	441.3	432.3	424.2	417.6	409.5	401.3	394.6	389.0	384.0	380.8	381.3
165°	433.1	426.0	420.6	415.9	410.4	403.4	398.7	394.8	390.1	388.5	389.3
167.5°	424.9	420.6	417.0	414.8	410.2	405.1	402.1	399.3	396.3	394.9	395.9
170°	420.6	417.4	415.1	413.5	409.6	405.7	403.4	401.8	399.4	398.7	400.2
172.5°	416.2	413.7	412.6	411.6	409.0	406.3	404.6	403.7	401.3	401.8	402.7
175°	410.4	409.6	408.8	409.6	408.0	406.5	405.7	405.7	404.1	404.9	405.7
177.5°	407.1	406.5	407.1	408.4	407.1	406.5	406.5	406.5	405.2	405.9	407.1
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5



TEST NUMBER: P331749

CATALOG NUMBER: SA2XXRDIP-C1005D725U835-4F0-1E-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°	15.3	12.9	12.6	12.3	13.4	14.2	14.6	15.6	16.4	15.6	16.0
90°	3.1	6.3	7.8	9.4	11.7	15.6	21.1	25.8	26.6	25.8	25.0
92.5°	13.8	19.4	22.8	28.1	35.5	53.2	78.0	100.2	101.6	85.8	68.2
95°	30.5	38.3	45.3	57.8	76.6	112.6	180.6	271.3	306.4	268.1	204.8
97.5°	48.8	57.1	67.7	82.1	103.3	148.5	243.3	394.0	523.1	548.8	477.9
100°	62.5	69.6	82.1	97.7	119.6	161.0	256.4	425.2	617.5	730.1	713.7
102.5°	76.3	83.3	95.8	112.1	134.0	172.3	257.0	413.4	620.7	797.6	868.2
105°	98.5	104.0	115.7	132.9	154.8	191.5	261.1	390.1	579.2	787.2	949.8
107.5°	120.4	125.7	136.5	153.5	175.6	211.2	271.9	378.5	534.8	718.5	891.0
110°	136.0	140.7	150.9	167.3	190.0	224.3	280.6	376.0	513.6	675.4	840.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	149.8	155.1	164.6	180.4	203.7	236.9	290.0	376.6	499.8	645.4	794.1
115°	172.0	176.7	186.0	201.7	222.8	256.4	304.1	379.9	484.7	608.2	737.1
117.5°	193.4	198.1	206.4	221.4	243.3	274.4	319.1	385.5	477.3	584.7	694.3
120°	207.2	211.8	218.9	234.5	256.4	286.9	329.1	389.3	472.9	572.2	673.0
122.5°	219.7	224.3	232.0	247.6	270.2	298.8	337.9	393.7	470.4	561.6	656.2
125°	236.9	241.5	250.9	266.6	288.4	316.6	351.8	400.2	465.9	546.4	631.6
127.5°	251.4	258.0	268.3	283.3	305.8	333.2	364.7	407.0	463.2	532.3	607.4
130°	259.5	267.3	278.3	293.9	315.8	343.2	372.9	412.0	462.0	523.0	591.7
132.5°	267.7	276.1	287.7	303.9	325.8	351.9	381.0	417.0	461.4	515.5	576.7
135°	278.3	287.7	299.4	317.4	339.3	364.3	391.6	422.9	460.4	505.0	555.8
137.5°	289.5	298.9	311.4	329.3	349.6	374.3	399.8	428.2	460.3	497.6	539.1
140°	297.0	306.4	318.9	336.1	356.5	379.9	404.1	430.7	459.6	493.3	528.4
142.5°	304.6	313.3	325.8	342.4	361.5	384.3	407.9	432.6	459.6	488.9	519.7
145°	317.4	325.2	336.9	352.5	369.7	390.9	412.7	434.6	458.1	483.1	507.3
147.5°	329.7	337.2	348.0	361.0	376.3	396.2	415.4	435.3	455.3	477.2	497.8
150°	338.5	344.7	354.9	366.6	380.7	398.7	416.6	434.6	453.4	472.1	490.9
152.5°	346.0	352.2	361.1	372.2	385.1	401.2	417.3	433.4	450.3	467.8	484.0
155°	358.0	362.7	371.3	379.9	391.6	404.9	418.2	431.5	444.8	459.6	474.5
157.5°	368.3	372.1	379.6	386.5	396.3	407.6	418.2	427.9	439.2	452.0	463.4
160°	375.2	378.3	384.6	390.9	399.4	408.8	418.2	426.0	435.4	446.4	456.5
162.5°	380.8	384.0	389.0	394.6	401.3	409.5	417.6	424.2	432.3	441.3	449.6
165°	388.5	390.1	394.8	398.7	403.4	410.4	415.9	420.6	426.0	433.1	439.3
167.5°	394.9	396.3	399.3	402.1	405.1	410.2	414.8	417.0	420.6	424.9	429.5
170°	398.7	399.4	401.8	403.4	405.7	409.6	413.5	415.1	417.4	420.6	424.5
172.5°	401.8	401.3	403.7	404.6	406.3	409.0	411.6	412.6	413.7	416.2	418.8
175°	404.9	404.1	405.7	405.7	406.5	408.0	409.6	408.8	409.6	410.4	412.7
177.5°	405.9	405.2	406.5	406.5	406.5	407.1	408.4	407.1	406.5	407.1	408.4
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5



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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°	15.1	15.4	15.6	15.6	15.6	15.6	15.0
90°	23.5	25.0	25.8	25.8	25.8	25.8	25.8
92.5°	58.5	51.9	47.1	46.4	43.9	44.6	43.3
95°	157.1	124.3	107.1	96.9	90.7	88.3	89.1
97.5°	391.0	306.4	250.0	212.6	193.4	182.0	175.4
100°	616.8	509.7	415.1	350.2	316.6	293.9	279.8
102.5°	846.3	767.9	667.7	597.2	539.8	511.5	492.5
105°	1038.1	1048.3	1022.5	974.0	925.5	891.9	881.0
107.5°	1024.0	1105.3	1143.2	1149.3	1146.6	1139.9	1125.3
110°	980.3	1080.3	1144.4	1178.0	1192.9	1199.9	1199.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	928.3	1035.3	1108.8	1155.5	1180.4	1193.7	1197.9
115°	857.5	959.9	1040.4	1095.9	1131.9	1152.2	1159.3
117.5°	800.0	892.9	968.4	1025.0	1063.0	1084.4	1090.3
120°	770.0	852.8	924.0	978.7	1015.4	1038.1	1045.9
122.5°	745.0	823.4	887.7	936.8	972.9	993.1	999.6
125°	712.1	780.9	839.5	884.9	914.6	934.1	940.4
127.5°	680.2	745.1	799.2	838.8	866.6	883.5	888.5
130°	659.0	720.7	772.3	810.6	837.2	852.8	859.1
132.5°	639.0	695.7	744.2	781.9	808.4	822.8	828.4
135°	607.4	659.0	702.7	736.4	762.2	776.2	779.4
137.5°	582.2	623.2	661.3	692.0	714.2	726.5	731.2
140°	566.0	601.9	636.3	661.3	681.6	693.4	698.1
142.5°	551.6	582.5	611.3	635.1	653.5	664.0	664.9
145°	533.1	557.4	580.0	598.8	612.1	619.9	622.2
147.5°	518.1	537.0	553.6	569.1	579.7	585.0	586.4
150°	508.1	524.5	538.6	550.3	559.7	564.4	565.2
152.5°	500.0	513.9	526.1	535.3	543.4	546.9	547.0
155°	487.0	498.7	507.3	515.9	521.4	524.5	523.0
157.5°	473.9	483.7	490.4	496.5	501.1	502.5	502.5
160°	465.1	473.7	479.2	484.7	488.6	489.3	489.3
162.5°	457.0	464.3	468.6	474.0	476.7	477.5	476.8
165°	444.8	450.3	453.4	456.5	459.6	459.6	458.9
167.5°	433.7	437.4	440.3	441.7	443.4	443.2	442.3
170°	426.8	429.9	431.5	432.3	434.6	433.8	432.3
172.5°	420.6	423.1	424.0	424.8	425.9	425.1	424.2
175°	413.5	414.3	415.1	415.1	415.9	415.1	413.5
177.5°	408.4	409.0	409.0	409.0	409.0	408.4	407.1
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5

(END OF REPORT)