

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: P331749-830

Luminaire Tested: **SA2XXRDIP-C1005D725U830-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331749-830
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-C1005D725U830-4F0-1E-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: 6262.0 lumens
Efficiency: N/A
Efficacy: 103.2 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: General Diffuse

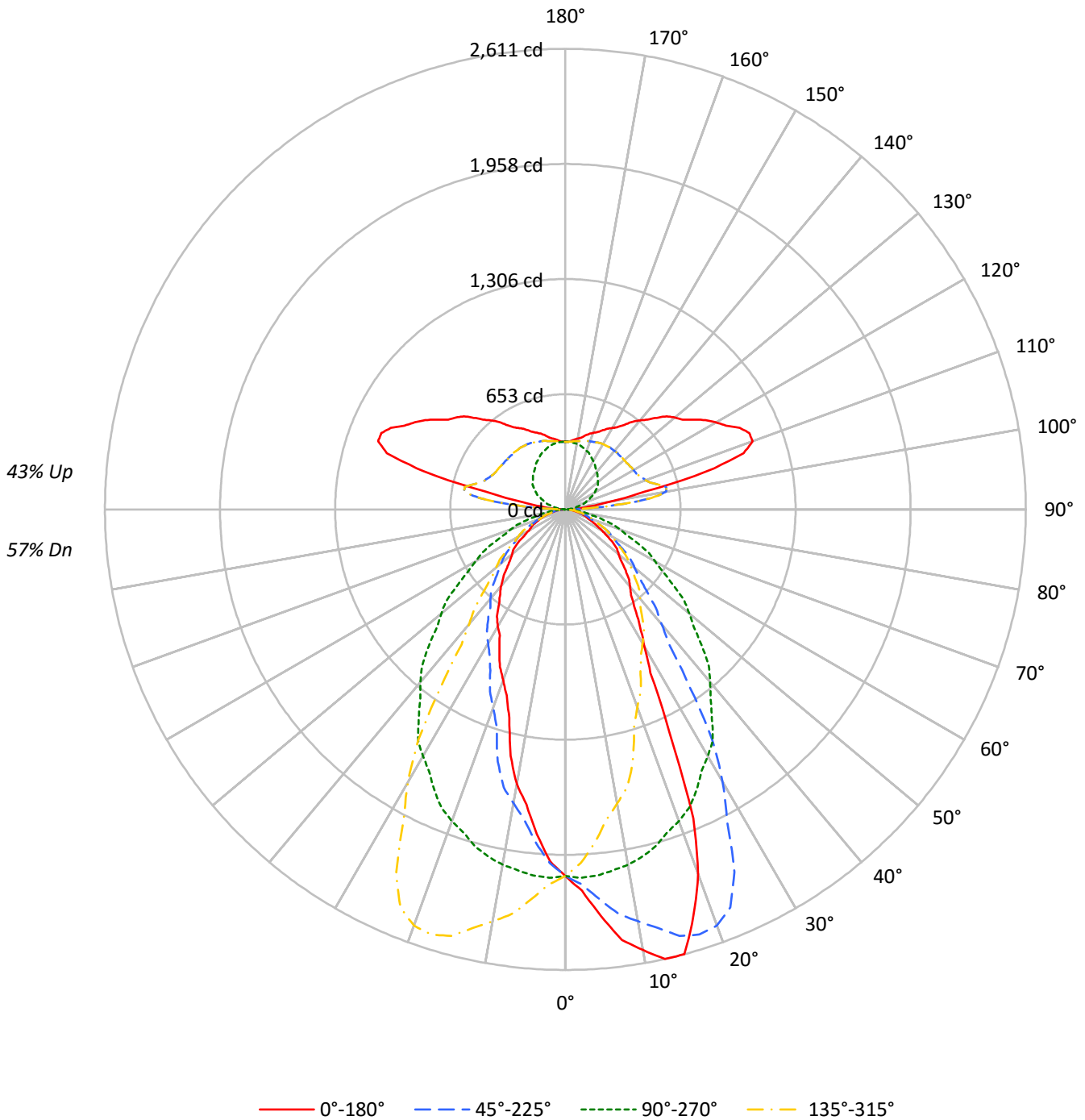
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	33562	33562	33562	33562
5°	37483	33773	29945	33773
10°	41589	33536	25956	33536
15°	43632	33045	20451	33045
20°	37826	32316	17698	32316
25°	24807	31319	15800	31319
30°	16697	30109	14300	30109
35°	13525	28586	12899	28586
40°	12026	26930	11936	26930
45°	10885	24987	10654	24987
50°	9907	23059	9869	23059
55°	9312	20921	9191	20921
60°	7789	18962	7698	18962
65°	6567	17219	7450	17219
70°	6071	15375	7024	15375
75°	5677	13381	6488	13381
80°	5244	11018	5774	11018
85°	4817	8688	5076	8688



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.1	3.1
10°-20°	549.1	8.8
20°-30°	707.5	11.3
30°-40°	672.4	10.7
40°-50°	576.0	9.2
50°-60°	438.6	7.0
60°-70°	277.3	4.4
70°-80°	138.5	2.2
80°-90°	39.5	0.6
90°-100°	153.2	2.4
100°-110°	519.8	8.3
110°-120°	552.3	8.8
120°-130°	454.6	7.3
130°-140°	365.1	5.8
140°-150°	275.9	4.4
150°-160°	193.9	3.1
160°-170°	114.1	1.8
170°-180°	37.1	0.6
0°-30°	1453.7	23.2
0°-40°	2126.0	34.0
0°-60°	3140.7	50.2
0°-90°	3595.9	57.4
90°-120°	1225.3	19.6
90°-150°	2320.9	37.1
90°-180°	2666.0	42.6
0°-180°	6262.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2079	2079	2079	2079	2079	
5°	2313	2084	1848	2084	2313	228
15°	2610	1977	1224	1977	2610	704
25°	1392	1758	887	1758	1392	661
35°	686	1450	654	1450	686	439
45°	477	1094	467	1094	477	369
55°	331	743	326	743	331	290
65°	172	451	195	451	172	175
75°	91	214	104	214	91	97
85°	26	47	27	47	26	29
90°	24	1	24	1	24	14
95°	84	26	84	26	84	109
105°	830	90	830	90	830	803
115°	1093	158	1093	158	1093	1070
125°	886	221	886	221	886	801
135°	735	259	735	259	735	571
145°	586	296	586	296	586	372
155°	493	337	493	337	493	230
165°	432	367	432	367	432	124
175°	390	382	390	382	390	38
180°	383	383	383	383	383	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2163.0	2164.8	2166.5	2162.5	2162.5	2159.0	2151.5	2145.7	2129.6	2127.2	2127.2
5°	2312.7	2311.3	2314.1	2304.8	2291.8	2288.9	2275.2	2257.1	2238.4	2217.4	2213.1
7.5°	2461.5	2459.4	2453.5	2452.0	2442.0	2420.2	2398.1	2374.5	2343.3	2312.9	2297.5
10°	2536.7	2560.5	2546.0	2520.7	2525.8	2491.9	2473.8	2442.8	2416.8	2371.2	2361.2
12.5°	2610.6	2620.0	2615.4	2601.0	2594.5	2571.0	2546.6	2519.6	2471.6	2430.7	2395.2
15°	2610.3	2624.0	2627.6	2623.3	2627.0	2625.5	2612.4	2590.1	2548.2	2503.4	2464.4
17.5°	2417.6	2427.1	2450.8	2466.8	2487.1	2529.9	2550.9	2559.2	2553.0	2527.4	2499.9
20°	2201.5	2185.6	2252.0	2286.0	2314.9	2387.1	2449.2	2473.0	2511.3	2510.7	2503.4
22.5°	1895.3	1899.0	1962.0	2002.3	2086.7	2158.9	2229.7	2319.4	2393.5	2442.4	2471.1
25°	1392.5	1420.0	1482.8	1537.8	1631.6	1765.9	1888.0	2029.6	2163.2	2268.7	2369.1
27.5°	1045.8	1047.9	1097.7	1148.4	1204.2	1314.3	1467.9	1637.0	1827.5	1984.7	2165.5
30°	895.6	891.3	912.2	943.3	991.0	1076.2	1191.8	1357.9	1547.8	1784.7	1995.6
32.5°	789.3	789.6	805.3	828.3	867.9	925.4	1004.6	1139.4	1319.0	1551.9	1799.2
35°	686.2	685.4	697.0	713.6	730.2	767.0	821.2	892.0	1015.5	1232.9	1485.7
37.5°	612.2	615.4	621.0	631.4	649.8	670.2	702.8	750.3	838.3	966.9	1179.3
40°	570.6	572.0	579.9	588.6	599.5	615.4	642.1	680.4	744.7	847.3	1002.5
42.5°	532.4	534.0	539.5	547.6	556.2	572.0	594.2	627.3	679.4	759.4	887.5
45°	476.7	476.7	481.7	485.4	494.7	509.2	527.3	554.7	590.8	650.1	735.3
47.5°	424.4	424.5	427.9	434.1	440.0	451.3	469.0	491.4	517.7	563.5	636.3
50°	394.4	395.1	397.3	402.3	406.0	416.0	429.8	449.2	476.7	512.1	572.8
52.5°	370.1	369.7	372.4	374.6	377.0	384.3	394.5	411.7	436.2	467.0	517.3
55°	330.8	327.9	332.2	335.8	338.0	340.9	346.7	357.5	378.4	404.4	442.1
57.5°	281.7	280.5	283.6	286.9	293.7	301.5	306.4	313.3	324.1	342.8	380.0
60°	241.2	241.2	247.7	249.9	257.9	268.0	278.1	283.9	294.7	307.0	334.4
62.5°	205.4	206.0	209.1	211.2	215.7	228.1	242.2	255.0	265.2	276.9	295.1
65°	171.9	173.3	173.3	174.7	177.7	180.6	186.3	196.4	214.5	231.1	244.9
67.5°	145.9	146.4	146.8	148.2	148.9	152.1	154.4	158.9	163.1	178.8	195.9
70°	128.6	130.7	130.0	131.5	132.1	133.7	136.5	138.6	145.2	148.8	158.9
72.5°	112.4	114.0	113.9	114.7	116.6	116.9	119.1	121.3	125.5	128.6	134.0
75°	91.0	90.3	91.0	92.5	93.2	93.9	93.9	96.8	99.0	101.8	105.5
77.5°	70.2	71.0	70.8	71.0	71.1	72.4	72.2	73.5	75.7	77.1	78.9
80°	56.4	57.0	56.4	57.0	57.8	58.5	57.8	58.5	60.7	62.1	62.1
82.5°	43.6	43.7	44.2	44.4	44.5	44.7	45.6	45.8	47.4	47.1	47.7
85°	26.0	25.3	25.3	25.3	26.0	26.8	26.0	26.0	26.8	26.8	26.8
87.5°	14.1	14.7	14.7	14.7	14.7	14.5	14.2	15.1	14.7	15.5	14.7
90°	24.3	24.3	24.3	24.3	24.3	23.6	22.1	23.6	24.3	25.1	24.3
92.5°	40.8	42.0	41.4	43.7	44.4	48.9	55.1	64.3	80.9	95.8	94.4
95°	84.0	83.2	85.5	91.3	100.9	117.2	148.1	193.0	252.7	288.8	255.7
97.5°	165.3	171.5	182.3	200.4	235.6	288.8	368.5	450.4	517.3	493.0	371.4
100°	263.7	277.0	298.4	330.1	391.2	480.4	581.4	672.7	688.2	582.0	400.8
102.5°	464.2	482.1	508.8	562.9	629.3	723.8	797.7	818.3	751.8	585.0	389.6
105°	830.4	840.7	872.3	918.0	963.7	988.1	978.5	895.2	742.0	545.9	367.7
107.5°	1060.6	1074.4	1080.7	1083.3	1077.5	1041.8	965.2	839.8	677.2	504.1	356.8
110°	1130.2	1131.0	1124.4	1110.3	1078.6	1018.2	924.0	792.0	636.6	484.1	354.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1129.1	1125.1	1112.6	1089.1	1045.1	975.8	875.0	748.5	608.3	471.1	355.0
115°	1092.7	1086.0	1066.9	1032.9	980.6	904.7	808.2	694.7	573.3	456.9	358.1
117.5°	1027.7	1022.1	1001.9	966.1	912.8	841.6	754.0	654.4	551.1	449.9	363.4
120°	985.8	978.5	957.1	922.5	870.9	803.8	725.8	634.3	539.3	445.7	366.9
122.5°	942.2	936.0	917.0	883.0	836.7	776.1	702.2	618.5	529.3	443.4	371.1
125°	886.4	880.4	862.0	834.1	791.3	736.0	671.2	595.3	515.0	439.1	377.2
127.5°	837.4	832.7	816.8	790.6	753.3	702.3	641.1	572.5	501.7	436.6	383.6
130°	809.7	803.8	789.1	764.0	727.9	679.3	621.1	557.7	492.9	435.5	388.3
132.5°	780.8	775.5	762.0	737.0	701.4	655.7	602.3	543.6	485.9	434.9	393.0
135°	734.6	731.6	718.4	694.1	662.3	621.1	572.5	523.9	476.0	433.9	398.6
137.5°	689.2	684.8	673.2	652.2	623.3	587.4	548.7	508.1	469.0	433.9	403.6
140°	658.0	653.6	642.4	623.3	599.7	567.3	533.5	498.0	465.0	433.2	406.0
142.5°	626.7	625.8	616.0	598.6	576.2	549.0	519.9	489.8	460.8	433.2	407.7
145°	586.4	584.3	576.9	564.4	546.7	525.4	502.5	478.2	455.3	431.8	409.6
147.5°	552.7	551.4	546.4	536.4	521.8	506.1	488.3	469.2	449.8	429.1	410.3
150°	532.7	532.0	527.5	518.7	507.7	494.4	478.9	462.7	445.0	427.3	409.6
152.5°	515.6	515.5	512.2	504.5	495.9	484.4	471.3	456.2	440.9	424.4	408.5
155°	492.9	494.4	491.4	486.3	478.2	470.0	459.0	447.2	433.2	419.2	406.7
157.5°	473.6	473.6	472.3	468.0	462.2	455.9	446.7	436.8	426.0	414.0	403.3
160°	461.2	461.2	460.5	456.9	451.7	446.5	438.4	430.3	420.8	410.4	401.5
162.5°	449.4	450.1	449.3	446.8	441.7	437.6	430.7	423.8	415.9	407.5	399.8
165°	432.5	433.2	433.2	430.3	427.3	424.4	419.2	414.1	408.2	401.5	396.4
167.5°	416.9	417.7	417.9	416.3	415.0	412.3	408.8	404.8	400.5	396.4	393.0
170°	407.5	408.9	409.6	407.5	406.7	405.2	402.3	400.1	396.4	393.4	391.2
172.5°	399.8	400.7	401.4	400.4	399.6	398.8	396.4	394.7	392.3	389.9	388.9
175°	389.7	391.2	392.0	391.2	391.2	390.5	389.7	389.0	386.8	386.1	385.3
177.5°	383.7	384.9	385.5	385.5	385.5	385.5	384.9	384.9	383.7	383.1	383.7
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2128.4	2123.7	2119.8	2109.3	2104.1	2092.5	2090.8	2090.3	2075.3	2060.8	2056.7
5°	2201.5	2189.9	2172.7	2152.4	2131.5	2109.8	2095.4	2083.8	2054.8	2027.4	2011.6
7.5°	2275.2	2250.3	2220.4	2182.2	2150.2	2114.4	2087.8	2064.0	2023.0	1983.7	1957.2
10°	2330.1	2289.6	2249.8	2197.2	2156.0	2115.5	2078.0	2045.5	1999.2	1947.3	1910.4
12.5°	2364.2	2319.7	2264.9	2213.4	2160.0	2108.7	2058.3	2016.6	1962.3	1908.6	1864.8
15°	2410.3	2362.6	2296.1	2222.4	2153.8	2086.7	2028.9	1976.9	1906.1	1841.8	1788.4
17.5°	2448.0	2382.4	2311.0	2225.8	2146.4	2061.0	1986.6	1920.1	1841.4	1763.8	1700.8
20°	2460.0	2395.1	2312.7	2227.5	2133.6	2033.3	1953.0	1880.8	1796.3	1711.8	1639.6
22.5°	2452.6	2402.0	2310.5	2208.5	2112.2	2007.2	1916.7	1832.9	1739.1	1652.8	1569.1
25°	2401.6	2384.3	2297.5	2186.3	2076.5	1954.5	1849.7	1758.0	1651.1	1558.7	1467.6
27.5°	2282.6	2320.1	2266.3	2147.9	2025.8	1895.0	1777.3	1672.8	1561.9	1457.8	1367.2
30°	2168.3	2254.2	2231.1	2121.3	1984.8	1856.2	1724.1	1615.0	1496.6	1389.7	1300.1
32.5°	2011.7	2153.7	2176.2	2084.3	1943.2	1802.0	1663.4	1554.9	1431.3	1318.6	1231.3
35°	1762.4	1974.7	2072.2	2013.7	1872.2	1719.8	1576.7	1450.3	1326.1	1214.8	1128.2
37.5°	1464.9	1754.2	1916.7	1920.8	1790.8	1632.4	1476.6	1351.1	1224.0	1114.7	1021.1
40°	1272.0	1585.4	1797.1	1844.0	1734.2	1563.0	1405.5	1277.7	1153.5	1046.6	939.0
42.5°	1098.6	1410.9	1671.0	1752.7	1665.5	1495.4	1337.4	1203.7	1083.0	981.8	871.9
45°	888.4	1161.4	1448.1	1594.0	1545.7	1388.2	1221.3	1094.3	980.8	893.4	788.0
47.5°	749.4	941.9	1219.4	1416.6	1415.8	1272.1	1108.0	986.2	881.0	799.1	713.8
50°	670.2	837.8	1072.6	1296.5	1315.2	1194.7	1038.6	918.0	819.8	733.9	665.2
52.5°	599.2	737.3	948.4	1163.0	1216.4	1112.0	960.6	849.2	753.9	674.9	616.1
55°	506.3	613.2	773.5	974.3	1055.3	981.6	847.3	743.2	665.9	599.5	548.9
57.5°	428.3	508.5	637.2	798.8	893.1	846.7	735.8	651.4	585.2	525.1	485.2
60°	379.2	444.9	554.0	689.1	793.1	760.5	665.9	587.2	530.8	478.9	441.3
62.5°	333.0	389.5	483.0	592.6	687.9	674.5	597.2	531.1	481.7	434.4	402.6
65°	268.0	309.2	382.1	468.1	544.6	551.1	495.5	450.7	406.6	369.1	340.9
67.5°	213.4	240.3	291.6	364.0	421.4	441.9	407.9	373.7	338.7	309.7	285.3
70°	179.8	201.5	239.0	297.6	350.3	371.9	352.5	325.7	295.4	271.5	250.6
72.5°	145.7	166.8	194.5	237.5	282.7	306.1	299.4	280.1	255.5	235.7	215.9
75°	109.8	116.3	135.1	164.0	199.3	219.6	224.6	214.5	195.0	179.8	168.2
77.5°	81.2	85.1	94.1	109.2	132.3	150.3	157.8	156.6	143.2	134.3	123.5
80°	65.0	67.2	71.5	78.0	95.4	113.4	118.5	118.5	109.1	105.5	94.6
82.5°	49.4	51.0	53.6	57.2	65.3	81.1	86.7	87.8	81.9	77.1	68.6
85°	28.2	27.4	28.9	31.1	32.5	36.9	45.5	46.9	45.5	39.7	37.5
87.5°	13.8	13.4	12.6	11.6	11.9	12.2	14.4	16.9	15.1	13.9	13.0
90°	19.9	14.7	11.0	8.9	7.4	5.9	2.9	0.8	2.9	5.9	7.4
92.5°	73.5	50.1	33.5	26.5	21.5	18.3	13.0	9.0	13.0	18.3	21.5
95°	170.2	106.1	72.2	54.5	42.7	36.1	28.7	25.8	28.7	36.1	42.7
97.5°	229.3	140.0	97.4	77.4	63.8	53.8	46.0	42.0	46.0	53.8	63.8
100°	241.7	151.7	112.7	92.1	77.4	65.6	58.9	56.7	58.9	65.6	77.4
102.5°	242.2	162.4	126.3	105.7	90.3	78.5	71.9	70.3	71.9	78.5	90.3
105°	246.1	180.5	145.9	125.3	109.1	98.0	92.8	89.9	92.8	98.0	109.1
107.5°	256.3	199.1	165.5	144.7	128.7	118.5	113.5	111.1	113.5	118.5	128.7
110°	264.5	211.4	179.1	157.7	142.2	132.6	128.2	125.3	128.2	132.6	142.2



TEST NUMBER: P331749-830

CATALOG NUMBER: SA2XXRDIP-C1005D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	273.3	223.3	192.0	170.0	155.1	146.2	141.2	138.2	141.2	146.2	155.1
115°	286.6	241.7	210.0	190.1	175.3	166.5	162.1	158.4	162.1	166.5	175.3
117.5°	300.8	258.6	229.3	208.7	194.5	186.7	182.3	179.4	182.3	186.7	194.5
120°	310.2	270.4	241.7	221.0	206.3	199.6	195.3	192.3	195.3	199.6	206.3
122.5°	318.5	281.6	254.7	233.4	218.7	211.4	207.1	204.7	207.1	211.4	218.7
125°	331.6	298.4	271.8	251.3	236.5	227.6	223.3	221.0	223.3	227.6	236.5
127.5°	343.7	314.1	288.2	267.0	252.9	243.2	237.0	234.0	237.0	243.2	252.9
130°	351.5	323.5	297.7	277.0	262.3	251.9	244.6	241.7	244.6	251.9	262.3
132.5°	359.1	331.7	307.1	286.4	271.2	260.2	252.3	248.7	252.3	260.2	271.2
135°	369.1	343.4	319.8	299.2	282.2	271.2	262.3	259.4	262.3	271.2	282.2
137.5°	376.8	352.8	329.5	310.4	293.5	281.7	272.9	269.4	272.9	281.7	293.5
140°	380.9	358.1	336.0	316.8	300.6	288.8	279.9	277.0	279.9	288.8	300.6
142.5°	384.5	362.2	340.7	322.7	307.1	295.3	287.1	284.6	287.1	295.3	307.1
145°	389.0	368.4	348.5	332.2	317.5	306.5	299.2	296.1	299.2	306.5	317.5
147.5°	391.5	373.4	354.7	340.3	328.0	317.8	310.8	308.6	310.8	317.8	328.0
150°	392.7	375.8	358.8	345.5	334.5	324.9	319.1	316.8	319.1	324.9	334.5
152.5°	393.3	378.1	363.0	350.8	340.4	332.0	326.1	325.1	326.1	332.0	340.4
155°	394.2	381.6	369.1	358.1	350.0	341.9	337.4	336.7	337.4	341.9	350.0
157.5°	394.2	384.2	373.5	364.3	357.8	350.7	347.1	346.5	347.1	350.7	357.8
160°	394.2	385.3	376.5	368.4	362.5	356.6	353.6	352.9	353.6	356.6	362.5
162.5°	393.6	386.0	378.2	371.9	366.6	361.9	358.9	359.4	358.9	361.9	366.6
165°	392.0	386.8	380.2	375.8	372.1	367.7	366.2	366.9	366.2	367.7	372.1
167.5°	391.0	386.6	381.8	379.0	376.4	373.5	372.2	373.2	372.2	373.5	376.4
170°	389.7	386.1	382.4	380.2	378.7	376.5	375.8	377.2	375.8	376.5	378.7
172.5°	388.0	385.5	383.0	381.4	380.5	378.2	378.7	379.6	378.7	378.2	380.5
175°	386.1	384.6	383.1	382.4	382.4	380.9	381.6	382.4	381.6	380.9	382.4
177.5°	384.9	383.7	383.1	383.1	383.1	381.9	382.6	383.7	382.6	381.9	383.1
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



TEST NUMBER: P331749-830

CATALOG NUMBER: SA2XXRDIP-C1005D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2049.3	2045.2	2037.7	2026.1	2019.2	2007.1	1998.9	2003.6	2004.8	2003.6	2002.4
5°	1994.2	1979.1	1958.1	1937.9	1919.1	1898.8	1887.3	1882.3	1872.2	1866.3	1863.5
7.5°	1927.6	1901.5	1871.9	1836.6	1806.7	1775.4	1759.3	1751.3	1730.7	1719.5	1709.6
10°	1877.9	1836.7	1807.1	1761.0	1732.8	1691.6	1663.4	1664.2	1636.0	1620.0	1608.5
12.5°	1823.1	1777.8	1728.5	1687.0	1647.8	1614.8	1580.7	1567.1	1537.2	1521.8	1490.6
15°	1732.0	1679.3	1627.3	1570.9	1531.3	1480.0	1430.9	1370.9	1322.5	1280.6	1269.0
17.5°	1632.7	1567.4	1515.2	1449.1	1381.0	1294.8	1237.8	1203.1	1173.8	1151.8	1135.3
20°	1564.4	1498.0	1442.4	1342.7	1250.9	1192.5	1150.6	1123.9	1093.5	1069.7	1056.7
22.5°	1492.8	1423.4	1347.6	1236.4	1164.9	1117.9	1080.6	1049.9	1029.4	1010.8	998.9
25°	1391.1	1315.2	1190.3	1113.7	1055.9	1006.8	980.8	962.1	940.4	915.1	903.6
27.5°	1283.6	1163.0	1073.3	1016.3	961.2	929.3	905.9	877.9	858.5	847.1	835.1
30°	1203.3	1082.7	1012.7	950.6	911.5	876.1	848.7	832.8	814.0	794.5	786.6
32.5°	1113.7	1017.4	950.3	898.5	858.9	828.8	807.1	781.4	767.8	755.8	739.1
35°	1002.5	929.5	868.2	826.3	788.7	764.2	738.9	723.7	699.2	689.1	682.6
37.5°	908.3	845.1	799.3	755.1	725.3	698.1	682.7	658.6	647.9	633.9	620.2
40°	855.2	793.1	749.0	712.8	679.7	659.4	639.9	620.5	604.5	598.0	581.5
42.5°	800.9	750.3	706.2	666.7	644.4	623.0	598.3	584.0	567.6	557.0	546.8
45°	725.9	681.1	643.6	611.1	586.4	564.1	548.2	524.3	515.0	494.1	485.4
47.5°	660.1	618.4	582.6	551.7	527.7	513.1	489.8	471.2	456.2	443.4	432.3
50°	613.2	578.5	543.8	516.4	494.7	473.8	450.0	440.5	417.5	410.9	404.4
52.5°	570.4	537.5	505.8	478.9	457.2	436.9	415.8	403.6	388.0	381.5	376.7
55°	510.7	478.9	448.6	424.7	403.0	382.1	369.1	353.9	346.7	341.7	335.8
57.5°	450.5	422.0	398.7	374.6	352.8	336.1	321.1	312.0	304.5	297.8	291.0
60°	412.5	384.9	364.0	341.7	319.2	305.5	294.0	283.1	274.5	264.4	261.5
62.5°	371.9	348.0	328.8	307.0	287.5	274.9	263.9	253.6	243.3	228.6	224.5
65°	316.3	297.6	277.4	259.3	242.0	229.7	213.8	202.3	197.9	196.4	195.8
67.5°	266.1	248.4	231.0	212.4	196.7	185.3	177.3	175.5	172.5	171.6	169.6
70°	232.6	215.9	198.6	181.3	166.2	164.0	161.1	158.2	154.6	153.2	151.7
72.5°	202.6	185.3	168.0	154.1	147.6	144.9	142.0	139.1	136.7	135.3	134.3
75°	155.3	139.4	127.8	122.8	119.1	117.0	112.6	110.5	109.1	106.9	106.1
77.5°	111.8	102.8	97.6	94.3	90.6	88.2	85.8	83.6	82.1	81.6	80.5
80°	85.2	80.9	77.3	73.0	71.5	68.6	67.9	65.7	66.4	64.3	64.3
82.5°	66.2	60.7	57.7	55.6	54.2	51.8	51.2	50.1	50.2	48.6	48.6
85°	33.9	32.5	31.1	29.6	29.6	27.4	28.2	27.4	27.4	26.0	25.3
87.5°	12.7	12.6	12.2	13.2	14.1	13.7	13.6	12.8	12.5	12.8	12.3
90°	8.9	11.0	14.7	19.9	24.3	25.1	24.3	23.6	22.1	23.6	24.3
92.5°	26.5	33.5	50.1	73.5	94.4	95.8	80.9	64.3	55.1	48.9	44.4
95°	54.5	72.2	106.1	170.2	255.7	288.8	252.7	193.0	148.1	117.2	100.9
97.5°	77.4	97.4	140.0	229.3	371.4	493.0	517.3	450.4	368.5	288.8	235.6
100°	92.1	112.7	151.7	241.7	400.8	582.0	688.2	672.7	581.4	480.4	391.2
102.5°	105.7	126.3	162.4	242.2	389.6	585.0	751.8	818.3	797.7	723.8	629.3
105°	125.3	145.9	180.5	246.1	367.7	545.9	742.0	895.2	978.5	988.1	963.7
107.5°	144.7	165.5	199.1	256.3	356.8	504.1	677.2	839.8	965.2	1041.8	1077.5
110°	157.7	179.1	211.4	264.5	354.4	484.1	636.6	792.0	924.0	1018.2	1078.6



TEST NUMBER: P331749-830

CATALOG NUMBER: SA2XXRDIP-C1005D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	170.0	192.0	223.3	273.3	355.0	471.1	608.3	748.5	875.0	975.8	1045.1
115°	190.1	210.0	241.7	286.6	358.1	456.9	573.3	694.7	808.2	904.7	980.6
117.5°	208.7	229.3	258.6	300.8	363.4	449.9	551.1	654.4	754.0	841.6	912.8
120°	221.0	241.7	270.4	310.2	366.9	445.7	539.3	634.3	725.8	803.8	870.9
122.5°	233.4	254.7	281.6	318.5	371.1	443.4	529.3	618.5	702.2	776.1	836.7
125°	251.3	271.8	298.4	331.6	377.2	439.1	515.0	595.3	671.2	736.0	791.3
127.5°	267.0	288.2	314.1	343.7	383.6	436.6	501.7	572.5	641.1	702.3	753.3
130°	277.0	297.7	323.5	351.5	388.3	435.5	492.9	557.7	621.1	679.3	727.9
132.5°	286.4	307.1	331.7	359.1	393.0	434.9	485.9	543.6	602.3	655.7	701.4
135°	299.2	319.8	343.4	369.1	398.6	433.9	476.0	523.9	572.5	621.1	662.3
137.5°	310.4	329.5	352.8	376.8	403.6	433.9	469.0	508.1	548.7	587.4	623.3
140°	316.8	336.0	358.1	380.9	406.0	433.2	465.0	498.0	533.5	567.3	599.7
142.5°	322.7	340.7	362.2	384.5	407.7	433.2	460.8	489.8	519.9	549.0	576.2
145°	332.2	348.5	368.4	389.0	409.6	431.8	455.3	478.2	502.5	525.4	546.7
147.5°	340.3	354.7	373.4	391.5	410.3	429.1	449.8	469.2	488.3	506.1	521.8
150°	345.5	358.8	375.8	392.7	409.6	427.3	445.0	462.7	478.9	494.4	507.7
152.5°	350.8	363.0	378.1	393.3	408.5	424.4	440.9	456.2	471.3	484.4	495.9
155°	358.1	369.1	381.6	394.2	406.7	419.2	433.2	447.2	459.0	470.0	478.2
157.5°	364.3	373.5	384.2	394.2	403.3	414.0	426.0	436.8	446.7	455.9	462.2
160°	368.4	376.5	385.3	394.2	401.5	410.4	420.8	430.3	438.4	446.5	451.7
162.5°	371.9	378.2	386.0	393.6	399.8	407.5	415.9	423.8	430.7	437.6	441.7
165°	375.8	380.2	386.8	392.0	396.4	401.5	408.2	414.1	419.2	424.4	427.3
167.5°	379.0	381.8	386.6	391.0	393.0	396.4	400.5	404.8	408.8	412.3	415.0
170°	380.2	382.4	386.1	389.7	391.2	393.4	396.4	400.1	402.3	405.2	406.7
172.5°	381.4	383.0	385.5	388.0	388.9	389.9	392.3	394.7	396.4	398.8	399.6
175°	382.4	383.1	384.6	386.1	385.3	386.1	386.8	389.0	389.7	390.5	391.2
177.5°	383.1	383.1	383.7	384.9	383.7	383.1	383.7	384.9	384.9	385.5	385.5
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



TEST NUMBER: P331749-830

CATALOG NUMBER: SA2XXRDIP-C1005D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	1996.1	1997.2	1995.6	1996.7	1995.6	1997.2	1996.1	2002.4	2003.6	2004.8	2003.6
5°	1859.8	1851.2	1849.7	1847.6	1849.7	1851.2	1859.8	1863.5	1866.3	1872.2	1882.3
7.5°	1697.2	1695.9	1692.3	1687.2	1692.3	1695.9	1697.2	1709.6	1719.5	1730.7	1751.3
10°	1592.6	1589.0	1588.3	1583.2	1588.3	1589.0	1592.6	1608.5	1620.0	1636.0	1664.2
12.5°	1470.1	1446.9	1444.4	1431.8	1444.4	1446.9	1470.1	1490.6	1521.8	1537.2	1567.1
15°	1251.7	1247.4	1232.9	1223.5	1232.9	1247.4	1251.7	1269.0	1280.6	1322.5	1370.9
17.5°	1126.9	1112.8	1108.2	1106.3	1108.2	1112.8	1126.9	1135.3	1151.8	1173.8	1203.1
20°	1046.6	1033.6	1031.4	1030.0	1031.4	1033.6	1046.6	1056.7	1069.7	1093.5	1123.9
22.5°	991.1	977.5	971.9	967.5	971.9	977.5	991.1	998.9	1010.8	1029.4	1049.9
25°	896.4	891.3	888.4	886.9	888.4	891.3	896.4	903.6	915.1	940.4	962.1
27.5°	822.3	811.2	809.0	805.2	809.0	811.2	822.3	835.1	847.1	858.5	877.9
30°	780.0	776.5	771.4	767.0	771.4	776.5	780.0	786.6	794.5	814.0	832.8
32.5°	730.4	727.4	722.8	720.9	722.8	727.4	730.4	739.1	755.8	767.8	781.4
35°	675.3	665.2	660.9	654.4	660.9	665.2	675.3	682.6	689.1	699.2	723.7
37.5°	617.1	611.8	605.7	607.8	605.7	611.8	617.1	620.2	633.9	647.9	658.6
40°	572.0	568.4	567.0	566.3	567.0	568.4	572.0	581.5	598.0	604.5	620.5
42.5°	536.2	526.2	522.5	522.4	522.5	526.2	536.2	546.8	557.0	567.6	584.0
45°	481.7	472.4	465.9	466.6	465.9	472.4	481.7	485.4	494.1	515.0	524.3
47.5°	426.0	425.7	421.7	422.9	421.7	425.7	426.0	432.3	443.4	456.2	471.2
50°	399.4	395.1	392.2	392.9	392.2	395.1	399.4	404.4	410.9	417.5	440.5
52.5°	374.0	370.2	368.0	371.0	368.0	370.2	374.0	376.7	381.5	388.0	403.6
55°	332.2	327.9	327.2	326.5	327.2	327.9	332.2	335.8	341.7	346.7	353.9
57.5°	285.6	282.7	278.3	276.4	278.3	282.7	285.6	291.0	297.8	304.5	312.0
60°	252.0	246.3	239.0	238.4	239.0	246.3	252.0	261.5	264.4	274.5	283.1
62.5°	221.4	220.3	218.9	218.7	218.9	220.3	221.4	224.5	228.6	243.3	253.6
65°	194.3	193.6	194.3	195.0	194.3	193.6	194.3	195.8	196.4	197.9	202.3
67.5°	169.3	168.0	166.7	167.3	166.7	168.0	169.3	169.6	171.6	172.5	175.5
70°	150.2	149.5	148.8	148.8	148.8	149.5	150.2	151.7	153.2	154.6	158.2
72.5°	131.8	131.6	130.9	130.3	130.9	131.6	131.8	134.3	135.3	136.7	139.1
75°	105.5	104.0	104.0	104.0	104.0	104.0	105.5	106.1	106.9	109.1	110.5
77.5°	80.3	79.6	78.9	78.3	78.9	79.6	80.3	80.5	81.6	82.1	83.6
80°	63.5	62.9	62.1	62.1	62.1	62.9	63.5	64.3	64.3	66.4	65.7
82.5°	48.5	47.8	47.7	47.1	47.7	47.8	48.5	48.6	48.6	50.2	50.1
85°	26.0	26.8	26.0	27.4	26.0	26.8	26.0	25.3	26.0	27.4	27.4
87.5°	12.3	11.8	12.3	11.8	12.3	11.8	12.3	12.3	12.8	12.5	12.8
90°	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	23.6	22.1	23.6
92.5°	43.7	41.4	42.0	40.8	42.0	41.4	43.7	44.4	48.9	55.1	64.3
95°	91.3	85.5	83.2	84.0	83.2	85.5	91.3	100.9	117.2	148.1	193.0
97.5°	200.4	182.3	171.5	165.3	171.5	182.3	200.4	235.6	288.8	368.5	450.4
100°	330.1	298.4	277.0	263.7	277.0	298.4	330.1	391.2	480.4	581.4	672.7
102.5°	562.9	508.8	482.1	464.2	482.1	508.8	562.9	629.3	723.8	797.7	818.3
105°	918.0	872.3	840.7	830.4	840.7	872.3	918.0	963.7	988.1	978.5	895.2
107.5°	1083.3	1080.7	1074.4	1060.6	1074.4	1080.7	1083.3	1077.5	1041.8	965.2	839.8
110°	1110.3	1124.4	1131.0	1130.2	1131.0	1124.4	1110.3	1078.6	1018.2	924.0	792.0



TEST NUMBER: P331749-830

CATALOG NUMBER: SA2XXRDIP-C1005D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1089.1	1112.6	1125.1	1129.1	1125.1	1112.6	1089.1	1045.1	975.8	875.0	748.5
115°	1032.9	1066.9	1086.0	1092.7	1086.0	1066.9	1032.9	980.6	904.7	808.2	694.7
117.5°	966.1	1001.9	1022.1	1027.7	1022.1	1001.9	966.1	912.8	841.6	754.0	654.4
120°	922.5	957.1	978.5	985.8	978.5	957.1	922.5	870.9	803.8	725.8	634.3
122.5°	883.0	917.0	936.0	942.2	936.0	917.0	883.0	836.7	776.1	702.2	618.5
125°	834.1	862.0	880.4	886.4	880.4	862.0	834.1	791.3	736.0	671.2	595.3
127.5°	790.6	816.8	832.7	837.4	832.7	816.8	790.6	753.3	702.3	641.1	572.5
130°	764.0	789.1	803.8	809.7	803.8	789.1	764.0	727.9	679.3	621.1	557.7
132.5°	737.0	762.0	775.5	780.8	775.5	762.0	737.0	701.4	655.7	602.3	543.6
135°	694.1	718.4	731.6	734.6	731.6	718.4	694.1	662.3	621.1	572.5	523.9
137.5°	652.2	673.2	684.8	689.2	684.8	673.2	652.2	623.3	587.4	548.7	508.1
140°	623.3	642.4	653.6	658.0	653.6	642.4	623.3	599.7	567.3	533.5	498.0
142.5°	598.6	616.0	625.8	626.7	625.8	616.0	598.6	576.2	549.0	519.9	489.8
145°	564.4	576.9	584.3	586.4	584.3	576.9	564.4	546.7	525.4	502.5	478.2
147.5°	536.4	546.4	551.4	552.7	551.4	546.4	536.4	521.8	506.1	488.3	469.2
150°	518.7	527.5	532.0	532.7	532.0	527.5	518.7	507.7	494.4	478.9	462.7
152.5°	504.5	512.2	515.5	515.6	515.5	512.2	504.5	495.9	484.4	471.3	456.2
155°	486.3	491.4	494.4	492.9	494.4	491.4	486.3	478.2	470.0	459.0	447.2
157.5°	468.0	472.3	473.6	473.6	473.6	472.3	468.0	462.2	455.9	446.7	436.8
160°	456.9	460.5	461.2	461.2	461.2	460.5	456.9	451.7	446.5	438.4	430.3
162.5°	446.8	449.3	450.1	449.4	450.1	449.3	446.8	441.7	437.6	430.7	423.8
165°	430.3	433.2	433.2	432.5	433.2	433.2	430.3	427.3	424.4	419.2	414.1
167.5°	416.3	417.9	417.7	416.9	417.7	417.9	416.3	415.0	412.3	408.8	404.8
170°	407.5	409.6	408.9	407.5	408.9	409.6	407.5	406.7	405.2	402.3	400.1
172.5°	400.4	401.4	400.7	399.8	400.7	401.4	400.4	399.6	398.8	396.4	394.7
175°	391.2	392.0	391.2	389.7	391.2	392.0	391.2	391.2	390.5	389.7	389.0
177.5°	385.5	385.5	384.9	383.7	384.9	385.5	385.5	385.5	385.5	384.9	384.9
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



TEST NUMBER: P331749-830

CATALOG NUMBER: SA2XXRDIP-C1005D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	1998.9	2007.1	2019.2	2026.1	2037.7	2045.2	2049.3	2056.7	2060.8	2075.3	2090.3
5°	1887.3	1898.8	1919.1	1937.9	1958.1	1979.1	1994.2	2011.6	2027.4	2054.8	2083.8
7.5°	1759.3	1775.4	1806.7	1836.6	1871.9	1901.5	1927.6	1957.2	1983.7	2023.0	2064.0
10°	1663.4	1691.6	1732.8	1761.0	1807.1	1836.7	1877.9	1910.4	1947.3	1999.2	2045.5
12.5°	1580.7	1614.8	1647.8	1687.0	1728.5	1777.8	1823.1	1864.8	1908.6	1962.3	2016.6
15°	1430.9	1480.0	1531.3	1570.9	1627.3	1679.3	1732.0	1788.4	1841.8	1906.1	1976.9
17.5°	1237.8	1294.8	1381.0	1449.1	1515.2	1567.4	1632.7	1700.8	1763.8	1841.4	1920.1
20°	1150.6	1192.5	1250.9	1342.7	1442.4	1498.0	1564.4	1639.6	1711.8	1796.3	1880.8
22.5°	1080.6	1117.9	1164.9	1236.4	1347.6	1423.4	1492.8	1569.1	1652.8	1739.1	1832.9
25°	980.8	1006.8	1055.9	1113.7	1190.3	1315.2	1391.1	1467.6	1558.7	1651.1	1758.0
27.5°	905.9	929.3	961.2	1016.3	1073.3	1163.0	1283.6	1367.2	1457.8	1561.9	1672.8
30°	848.7	876.1	911.5	950.6	1012.7	1082.7	1203.3	1300.1	1389.7	1496.6	1615.0
32.5°	807.1	828.8	858.9	898.5	950.3	1017.4	1113.7	1231.3	1318.6	1431.3	1554.9
35°	738.9	764.2	788.7	826.3	868.2	929.5	1002.5	1128.2	1214.8	1326.1	1450.3
37.5°	682.7	698.1	725.3	755.1	799.3	845.1	908.3	1021.1	1114.7	1224.0	1351.1
40°	639.9	659.4	679.7	712.8	749.0	793.1	855.2	939.0	1046.6	1153.5	1277.7
42.5°	598.3	623.0	644.4	666.7	706.2	750.3	800.9	871.9	981.8	1083.0	1203.7
45°	548.2	564.1	586.4	611.1	643.6	681.1	725.9	788.0	893.4	980.8	1094.3
47.5°	489.8	513.1	527.7	551.7	582.6	618.4	660.1	713.8	799.1	881.0	986.2
50°	450.0	473.8	494.7	516.4	543.8	578.5	613.2	665.2	733.9	819.8	918.0
52.5°	415.8	436.9	457.2	478.9	505.8	537.5	570.4	616.1	674.9	753.9	849.2
55°	369.1	382.1	403.0	424.7	448.6	478.9	510.7	548.9	599.5	665.9	743.2
57.5°	321.1	336.1	352.8	374.6	398.7	422.0	450.5	485.2	525.1	585.2	651.4
60°	294.0	305.5	319.2	341.7	364.0	384.9	412.5	441.3	478.9	530.8	587.2
62.5°	263.9	274.9	287.5	307.0	328.8	348.0	371.9	402.6	434.4	481.7	531.1
65°	213.8	229.7	242.0	259.3	277.4	297.6	316.3	340.9	369.1	406.6	450.7
67.5°	177.3	185.3	196.7	212.4	231.0	248.4	266.1	285.3	309.7	338.7	373.7
70°	161.1	164.0	166.2	181.3	198.6	215.9	232.6	250.6	271.5	295.4	325.7
72.5°	142.0	144.9	147.6	154.1	168.0	185.3	202.6	215.9	235.7	255.5	280.1
75°	112.6	117.0	119.1	122.8	127.8	139.4	155.3	168.2	179.8	195.0	214.5
77.5°	85.8	88.2	90.6	94.3	97.6	102.8	111.8	123.5	134.3	143.2	156.6
80°	67.9	68.6	71.5	73.0	77.3	80.9	85.2	94.6	105.5	109.1	118.5
82.5°	51.2	51.8	54.2	55.6	57.7	60.7	66.2	68.6	77.1	81.9	87.8
85°	28.2	27.4	29.6	29.6	31.1	32.5	33.9	37.5	39.7	45.5	46.9
87.5°	13.6	13.7	14.1	13.2	12.2	12.6	12.7	13.0	13.9	15.1	16.9
90°	24.3	25.1	24.3	19.9	14.7	11.0	8.9	7.4	5.9	2.9	0.8
92.5°	80.9	95.8	94.4	73.5	50.1	33.5	26.5	21.5	18.3	13.0	9.0
95°	252.7	288.8	255.7	170.2	106.1	72.2	54.5	42.7	36.1	28.7	25.8
97.5°	517.3	493.0	371.4	229.3	140.0	97.4	77.4	63.8	53.8	46.0	42.0
100°	688.2	582.0	400.8	241.7	151.7	112.7	92.1	77.4	65.6	58.9	56.7
102.5°	751.8	585.0	389.6	242.2	162.4	126.3	105.7	90.3	78.5	71.9	70.3
105°	742.0	545.9	367.7	246.1	180.5	145.9	125.3	109.1	98.0	92.8	89.9
107.5°	677.2	504.1	356.8	256.3	199.1	165.5	144.7	128.7	118.5	113.5	111.1
110°	636.6	484.1	354.4	264.5	211.4	179.1	157.7	142.2	132.6	128.2	125.3



TEST NUMBER: P331749-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	608.3	471.1	355.0	273.3	223.3	192.0	170.0	155.1	146.2	141.2	138.2
115°	573.3	456.9	358.1	286.6	241.7	210.0	190.1	175.3	166.5	162.1	158.4
117.5°	551.1	449.9	363.4	300.8	258.6	229.3	208.7	194.5	186.7	182.3	179.4
120°	539.3	445.7	366.9	310.2	270.4	241.7	221.0	206.3	199.6	195.3	192.3
122.5°	529.3	443.4	371.1	318.5	281.6	254.7	233.4	218.7	211.4	207.1	204.7
125°	515.0	439.1	377.2	331.6	298.4	271.8	251.3	236.5	227.6	223.3	221.0
127.5°	501.7	436.6	383.6	343.7	314.1	288.2	267.0	252.9	243.2	237.0	234.0
130°	492.9	435.5	388.3	351.5	323.5	297.7	277.0	262.3	251.9	244.6	241.7
132.5°	485.9	434.9	393.0	359.1	331.7	307.1	286.4	271.2	260.2	252.3	248.7
135°	476.0	433.9	398.6	369.1	343.4	319.8	299.2	282.2	271.2	262.3	259.4
137.5°	469.0	433.9	403.6	376.8	352.8	329.5	310.4	293.5	281.7	272.9	269.4
140°	465.0	433.2	406.0	380.9	358.1	336.0	316.8	300.6	288.8	279.9	277.0
142.5°	460.8	433.2	407.7	384.5	362.2	340.7	322.7	307.1	295.3	287.1	284.6
145°	455.3	431.8	409.6	389.0	368.4	348.5	332.2	317.5	306.5	299.2	296.1
147.5°	449.8	429.1	410.3	391.5	373.4	354.7	340.3	328.0	317.8	310.8	308.6
150°	445.0	427.3	409.6	392.7	375.8	358.8	345.5	334.5	324.9	319.1	316.8
152.5°	440.9	424.4	408.5	393.3	378.1	363.0	350.8	340.4	332.0	326.1	325.1
155°	433.2	419.2	406.7	394.2	381.6	369.1	358.1	350.0	341.9	337.4	336.7
157.5°	426.0	414.0	403.3	394.2	384.2	373.5	364.3	357.8	350.7	347.1	346.5
160°	420.8	410.4	401.5	394.2	385.3	376.5	368.4	362.5	356.6	353.6	352.9
162.5°	415.9	407.5	399.8	393.6	386.0	378.2	371.9	366.6	361.9	358.9	359.4
165°	408.2	401.5	396.4	392.0	386.8	380.2	375.8	372.1	367.7	366.2	366.9
167.5°	400.5	396.4	393.0	391.0	386.6	381.8	379.0	376.4	373.5	372.2	373.2
170°	396.4	393.4	391.2	389.7	386.1	382.4	380.2	378.7	376.5	375.8	377.2
172.5°	392.3	389.9	388.9	388.0	385.5	383.0	381.4	380.5	378.2	378.7	379.6
175°	386.8	386.1	385.3	386.1	384.6	383.1	382.4	382.4	380.9	381.6	382.4
177.5°	383.7	383.1	383.7	384.9	383.7	383.1	383.1	383.1	381.9	382.6	383.7
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



TEST NUMBER: P331749-830

CATALOG NUMBER: SA2XXRDIP-C1005D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2090.8	2092.5	2104.1	2109.3	2119.8	2123.7	2128.4	2127.2	2127.2	2129.6	2145.7
5°	2095.4	2109.8	2131.5	2152.4	2172.7	2189.9	2201.5	2213.1	2217.4	2238.4	2257.1
7.5°	2087.8	2114.4	2150.2	2182.2	2220.4	2250.3	2275.2	2297.5	2312.9	2343.3	2374.5
10°	2078.0	2115.5	2156.0	2197.2	2249.8	2289.6	2330.1	2361.2	2371.2	2416.8	2442.8
12.5°	2058.3	2108.7	2160.0	2213.4	2264.9	2319.7	2364.2	2395.2	2430.7	2471.6	2519.6
15°	2028.9	2086.7	2153.8	2222.4	2296.1	2362.6	2410.3	2464.4	2503.4	2548.2	2590.1
17.5°	1986.6	2061.0	2146.4	2225.8	2311.0	2382.4	2448.0	2499.9	2527.4	2553.0	2559.2
20°	1953.0	2033.3	2133.6	2227.5	2312.7	2395.1	2460.0	2503.4	2510.7	2511.3	2473.0
22.5°	1916.7	2007.2	2112.2	2208.5	2310.5	2402.0	2452.6	2471.1	2442.4	2393.5	2319.4
25°	1849.7	1954.5	2076.5	2186.3	2297.5	2384.3	2401.6	2369.1	2268.7	2163.2	2029.6
27.5°	1777.3	1895.0	2025.8	2147.9	2266.3	2320.1	2282.6	2165.5	1984.7	1827.5	1637.0
30°	1724.1	1856.2	1984.8	2121.3	2231.1	2254.2	2168.3	1995.6	1784.7	1547.8	1357.9
32.5°	1663.4	1802.0	1943.2	2084.3	2176.2	2153.7	2011.7	1799.2	1551.9	1319.0	1139.4
35°	1576.7	1719.8	1872.2	2013.7	2072.2	1974.7	1762.4	1485.7	1232.9	1015.5	892.0
37.5°	1476.6	1632.4	1790.8	1920.8	1916.7	1754.2	1464.9	1179.3	966.9	838.3	750.3
40°	1405.5	1563.0	1734.2	1844.0	1797.1	1585.4	1272.0	1002.5	847.3	744.7	680.4
42.5°	1337.4	1495.4	1665.5	1752.7	1671.0	1410.9	1098.6	887.5	759.4	679.4	627.3
45°	1221.3	1388.2	1545.7	1594.0	1448.1	1161.4	888.4	735.3	650.1	590.8	554.7
47.5°	1108.0	1272.1	1415.8	1416.6	1219.4	941.9	749.4	636.3	563.5	517.7	491.4
50°	1038.6	1194.7	1315.2	1296.5	1072.6	837.8	670.2	572.8	512.1	476.7	449.2
52.5°	960.6	1112.0	1216.4	1163.0	948.4	737.3	599.2	517.3	467.0	436.2	411.7
55°	847.3	981.6	1055.3	974.3	773.5	613.2	506.3	442.1	404.4	378.4	357.5
57.5°	735.8	846.7	893.1	798.8	637.2	508.5	428.3	380.0	342.8	324.1	313.3
60°	665.9	760.5	793.1	689.1	554.0	444.9	379.2	334.4	307.0	294.7	283.9
62.5°	597.2	674.5	687.9	592.6	483.0	389.5	333.0	295.1	276.9	265.2	255.0
65°	495.5	551.1	544.6	468.1	382.1	309.2	268.0	244.9	231.1	214.5	196.4
67.5°	407.9	441.9	421.4	364.0	291.6	240.3	213.4	195.9	178.8	163.1	158.9
70°	352.5	371.9	350.3	297.6	239.0	201.5	179.8	158.9	148.8	145.2	138.6
72.5°	299.4	306.1	282.7	237.5	194.5	166.8	145.7	134.0	128.6	125.5	121.3
75°	224.6	219.6	199.3	164.0	135.1	116.3	109.8	105.5	101.8	99.0	96.8
77.5°	157.8	150.3	132.3	109.2	94.1	85.1	81.2	78.9	77.1	75.7	73.5
80°	118.5	113.4	95.4	78.0	71.5	67.2	65.0	62.1	62.1	60.7	58.5
82.5°	86.7	81.1	65.3	57.2	53.6	51.0	49.4	47.7	47.1	47.4	45.8
85°	45.5	36.9	32.5	31.1	28.9	27.4	28.2	26.8	26.8	26.8	26.0
87.5°	14.4	12.2	11.9	11.6	12.6	13.4	13.8	14.7	15.5	14.7	15.1
90°	2.9	5.9	7.4	8.9	11.0	14.7	19.9	24.3	25.1	24.3	23.6
92.5°	13.0	18.3	21.5	26.5	33.5	50.1	73.5	94.4	95.8	80.9	64.3
95°	28.7	36.1	42.7	54.5	72.2	106.1	170.2	255.7	288.8	252.7	193.0
97.5°	46.0	53.8	63.8	77.4	97.4	140.0	229.3	371.4	493.0	517.3	450.4
100°	58.9	65.6	77.4	92.1	112.7	151.7	241.7	400.8	582.0	688.2	672.7
102.5°	71.9	78.5	90.3	105.7	126.3	162.4	242.2	389.6	585.0	751.8	818.3
105°	92.8	98.0	109.1	125.3	145.9	180.5	246.1	367.7	545.9	742.0	895.2
107.5°	113.5	118.5	128.7	144.7	165.5	199.1	256.3	356.8	504.1	677.2	839.8
110°	128.2	132.6	142.2	157.7	179.1	211.4	264.5	354.4	484.1	636.6	792.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	141.2	146.2	155.1	170.0	192.0	223.3	273.3	355.0	471.1	608.3	748.5
115°	162.1	166.5	175.3	190.1	210.0	241.7	286.6	358.1	456.9	573.3	694.7
117.5°	182.3	186.7	194.5	208.7	229.3	258.6	300.8	363.4	449.9	551.1	654.4
120°	195.3	199.6	206.3	221.0	241.7	270.4	310.2	366.9	445.7	539.3	634.3
122.5°	207.1	211.4	218.7	233.4	254.7	281.6	318.5	371.1	443.4	529.3	618.5
125°	223.3	227.6	236.5	251.3	271.8	298.4	331.6	377.2	439.1	515.0	595.3
127.5°	237.0	243.2	252.9	267.0	288.2	314.1	343.7	383.6	436.6	501.7	572.5
130°	244.6	251.9	262.3	277.0	297.7	323.5	351.5	388.3	435.5	492.9	557.7
132.5°	252.3	260.2	271.2	286.4	307.1	331.7	359.1	393.0	434.9	485.9	543.6
135°	262.3	271.2	282.2	299.2	319.8	343.4	369.1	398.6	433.9	476.0	523.9
137.5°	272.9	281.7	293.5	310.4	329.5	352.8	376.8	403.6	433.9	469.0	508.1
140°	279.9	288.8	300.6	316.8	336.0	358.1	380.9	406.0	433.2	465.0	498.0
142.5°	287.1	295.3	307.1	322.7	340.7	362.2	384.5	407.7	433.2	460.8	489.8
145°	299.2	306.5	317.5	332.2	348.5	368.4	389.0	409.6	431.8	455.3	478.2
147.5°	310.8	317.8	328.0	340.3	354.7	373.4	391.5	410.3	429.1	449.8	469.2
150°	319.1	324.9	334.5	345.5	358.8	375.8	392.7	409.6	427.3	445.0	462.7
152.5°	326.1	332.0	340.4	350.8	363.0	378.1	393.3	408.5	424.4	440.9	456.2
155°	337.4	341.9	350.0	358.1	369.1	381.6	394.2	406.7	419.2	433.2	447.2
157.5°	347.1	350.7	357.8	364.3	373.5	384.2	394.2	403.3	414.0	426.0	436.8
160°	353.6	356.6	362.5	368.4	376.5	385.3	394.2	401.5	410.4	420.8	430.3
162.5°	358.9	361.9	366.6	371.9	378.2	386.0	393.6	399.8	407.5	415.9	423.8
165°	366.2	367.7	372.1	375.8	380.2	386.8	392.0	396.4	401.5	408.2	414.1
167.5°	372.2	373.5	376.4	379.0	381.8	386.6	391.0	393.0	396.4	400.5	404.8
170°	375.8	376.5	378.7	380.2	382.4	386.1	389.7	391.2	393.4	396.4	400.1
172.5°	378.7	378.2	380.5	381.4	383.0	385.5	388.0	388.9	389.9	392.3	394.7
175°	381.6	380.9	382.4	382.4	383.1	384.6	386.1	385.3	386.1	386.8	389.0
177.5°	382.6	381.9	383.1	383.1	383.1	383.7	384.9	383.7	383.1	383.7	384.9
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2151.5	2159.0	2162.5	2162.5	2166.5	2164.8	2163.0
5°	2275.2	2288.9	2291.8	2304.8	2314.1	2311.3	2312.7
7.5°	2398.1	2420.2	2442.0	2452.0	2453.5	2459.4	2461.5
10°	2473.8	2491.9	2525.8	2520.7	2546.0	2560.5	2536.7
12.5°	2546.6	2571.0	2594.5	2601.0	2615.4	2620.0	2610.6
15°	2612.4	2625.5	2627.0	2623.3	2627.6	2624.0	2610.3
17.5°	2550.9	2529.9	2487.1	2466.8	2450.8	2427.1	2417.6
20°	2449.2	2387.1	2314.9	2286.0	2252.0	2185.6	2201.5
22.5°	2229.7	2158.9	2086.7	2002.3	1962.0	1899.0	1895.3
25°	1888.0	1765.9	1631.6	1537.8	1482.8	1420.0	1392.5
27.5°	1467.9	1314.3	1204.2	1148.4	1097.7	1047.9	1045.8
30°	1191.8	1076.2	991.0	943.3	912.2	891.3	895.6
32.5°	1004.6	925.4	867.9	828.3	805.3	789.6	789.3
35°	821.2	767.0	730.2	713.6	697.0	685.4	686.2
37.5°	702.8	670.2	649.8	631.4	621.0	615.4	612.2
40°	642.1	615.4	599.5	588.6	579.9	572.0	570.6
42.5°	594.2	572.0	556.2	547.6	539.5	534.0	532.4
45°	527.3	509.2	494.7	485.4	481.7	476.7	476.7
47.5°	469.0	451.3	440.0	434.1	427.9	424.5	424.4
50°	429.8	416.0	406.0	402.3	397.3	395.1	394.4
52.5°	394.5	384.3	377.0	374.6	372.4	369.7	370.1
55°	346.7	340.9	338.0	335.8	332.2	327.9	330.8
57.5°	306.4	301.5	293.7	286.9	283.6	280.5	281.7
60°	278.1	268.0	257.9	249.9	247.7	241.2	241.2
62.5°	242.2	228.1	215.7	211.2	209.1	206.0	205.4
65°	186.3	180.6	177.7	174.7	173.3	173.3	171.9
67.5°	154.4	152.1	148.9	148.2	146.8	146.4	145.9
70°	136.5	133.7	132.1	131.5	130.0	130.7	128.6
72.5°	119.1	116.9	116.6	114.7	113.9	114.0	112.4
75°	93.9	93.9	93.2	92.5	91.0	90.3	91.0
77.5°	72.2	72.4	71.1	71.0	70.8	71.0	70.2
80°	57.8	58.5	57.8	57.0	56.4	57.0	56.4
82.5°	45.6	44.7	44.5	44.4	44.2	43.7	43.6
85°	26.0	26.8	26.0	25.3	25.3	25.3	26.0
87.5°	14.2	14.5	14.7	14.7	14.7	14.7	14.1
90°	22.1	23.6	24.3	24.3	24.3	24.3	24.3
92.5°	55.1	48.9	44.4	43.7	41.4	42.0	40.8
95°	148.1	117.2	100.9	91.3	85.5	83.2	84.0
97.5°	368.5	288.8	235.6	200.4	182.3	171.5	165.3
100°	581.4	480.4	391.2	330.1	298.4	277.0	263.7
102.5°	797.7	723.8	629.3	562.9	508.8	482.1	464.2
105°	978.5	988.1	963.7	918.0	872.3	840.7	830.4
107.5°	965.2	1041.8	1077.5	1083.3	1080.7	1074.4	1060.6
110°	924.0	1018.2	1078.6	1110.3	1124.4	1131.0	1130.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	875.0	975.8	1045.1	1089.1	1112.6	1125.1	1129.1
115°	808.2	904.7	980.6	1032.9	1066.9	1086.0	1092.7
117.5°	754.0	841.6	912.8	966.1	1001.9	1022.1	1027.7
120°	725.8	803.8	870.9	922.5	957.1	978.5	985.8
122.5°	702.2	776.1	836.7	883.0	917.0	936.0	942.2
125°	671.2	736.0	791.3	834.1	862.0	880.4	886.4
127.5°	641.1	702.3	753.3	790.6	816.8	832.7	837.4
130°	621.1	679.3	727.9	764.0	789.1	803.8	809.7
132.5°	602.3	655.7	701.4	737.0	762.0	775.5	780.8
135°	572.5	621.1	662.3	694.1	718.4	731.6	734.6
137.5°	548.7	587.4	623.3	652.2	673.2	684.8	689.2
140°	533.5	567.3	599.7	623.3	642.4	653.6	658.0
142.5°	519.9	549.0	576.2	598.6	616.0	625.8	626.7
145°	502.5	525.4	546.7	564.4	576.9	584.3	586.4
147.5°	488.3	506.1	521.8	536.4	546.4	551.4	552.7
150°	478.9	494.4	507.7	518.7	527.5	532.0	532.7
152.5°	471.3	484.4	495.9	504.5	512.2	515.5	515.6
155°	459.0	470.0	478.2	486.3	491.4	494.4	492.9
157.5°	446.7	455.9	462.2	468.0	472.3	473.6	473.6
160°	438.4	446.5	451.7	456.9	460.5	461.2	461.2
162.5°	430.7	437.6	441.7	446.8	449.3	450.1	449.4
165°	419.2	424.4	427.3	430.3	433.2	433.2	432.5
167.5°	408.8	412.3	415.0	416.3	417.9	417.7	416.9
170°	402.3	405.2	406.7	407.5	409.6	408.9	407.5
172.5°	396.4	398.8	399.6	400.4	401.4	400.7	399.8
175°	389.7	390.5	391.2	391.2	392.0	391.2	389.7
177.5°	384.9	385.5	385.5	385.5	385.5	384.9	383.7
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1

(END OF REPORT)