

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: P332969-840

Luminaire Tested: **SA4XXRDIP-C1020D810U840-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332969-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C1020D810U840-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7305.3 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

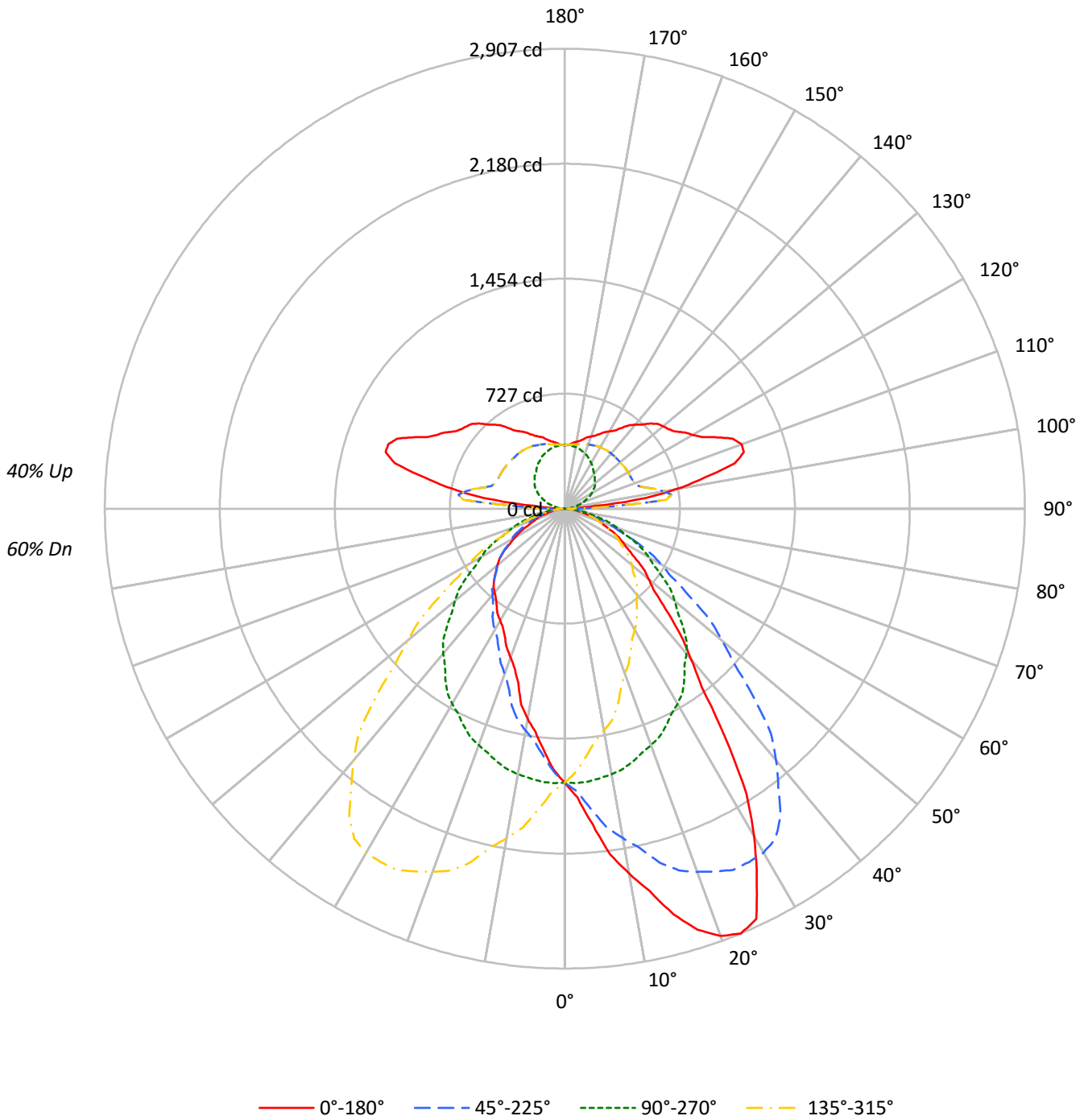
Input Watts (W): 54.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	110	110	110	110	102	102	102	102	89	89	89	77	77	77	65	65	65	60
1	101	96	93	89	94	90	87	84	79	76	74	68	67	65	59	57	56	52
2	92	85	79	74	86	80	74	70	70	66	62	61	58	55	52	50	48	44
3	84	75	68	62	79	71	64	59	62	57	53	54	50	47	47	44	42	38
4	77	67	59	53	72	63	56	51	55	50	46	49	44	41	42	39	36	33
5	71	60	52	46	66	56	49	44	50	44	40	44	39	36	38	35	32	29
6	66	54	46	40	61	51	44	38	45	39	35	40	35	32	35	31	28	26
7	61	49	41	35	57	46	39	34	41	35	31	36	32	28	32	28	25	23
8	57	44	37	31	53	42	35	30	38	32	28	33	29	25	29	26	23	21
9	53	41	33	28	49	39	32	27	35	29	25	31	26	23	27	23	21	19
10	49	37	30	25	46	36	29	24	32	26	23	28	24	21	25	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13988	13988	13988	13988
5°	16226	14030	12400	14030
10°	19194	13969	11068	13969
15°	22172	13840	9510	13840
20°	24686	13662	8600	13662
25°	25483	13488	7985	13488
30°	22309	13276	7614	13276
35°	17366	12962	7389	12962
40°	13022	12603	7268	12603
45°	10282	12028	7205	12028
50°	8681	11362	6997	11362
55°	7567	10632	6622	10632
60°	6807	9875	5861	9875
65°	6002	9054	5041	9054
70°	5403	8207	4548	8207
75°	4529	7274	3877	7274
80°	3831	6197	3636	6197
85°	3233	4844	3233	4844



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	2.3
10°-20°	506.4	6.9
20°-30°	792.1	10.8
30°-40°	880.6	12.1
40°-50°	781.3	10.7
50°-60°	608.8	8.3
60°-70°	398.6	5.5
70°-80°	196.0	2.7
80°-90°	50.6	0.7
90°-100°	290.3	4.0
100°-110°	604.2	8.3
110°-120°	541.2	7.4
120°-130°	455.2	6.2
130°-140°	379.6	5.2
140°-150°	290.0	4.0
150°-160°	203.8	2.8
160°-170°	119.9	1.6
170°-180°	39.0	0.5
0°-30°	1466.4	20.1
0°-40°	2347.0	32.1
0°-60°	3737.0	51.2
0°-90°	4382.2	60.0
90°-120°	1435.7	19.7
90°-150°	2560.4	35.0
90°-180°	2923.0	40.0
0°-180°	7305.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1733	1733	1733	1733	1733	
5°	2002	1731	1530	1731	2002	203
15°	2653	1656	1138	1656	2653	754
25°	2861	1514	896	1514	2861	1269
35°	1762	1315	750	1315	1762	1105
45°	901	1054	631	1054	901	713
55°	538	755	470	755	538	489
65°	314	474	264	474	314	316
75°	145	233	124	233	145	160
85°	35	52	35	52	35	40
90°	17	1	17	1	17	15
95°	193	26	193	26	193	299
105°	1111	92	1111	92	1111	1098
115°	1067	163	1067	163	1067	1059
125°	851	227	851	227	851	774
135°	761	269	761	269	761	588
145°	622	310	622	310	622	394
155°	520	353	520	353	520	243
165°	454	385	454	385	454	130
175°	409	401	409	401	409	40
180°	402	402	402	402	402	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1827.7	1832.7	1827.7	1827.1	1821.6	1819.9	1817.7	1810.4	1797.0	1789.2	1790.8
5°	2002.3	2019.6	2009.9	2008.5	1993.2	1977.8	1968.0	1945.7	1922.0	1905.9	1892.6
7.5°	2204.1	2214.1	2208.1	2198.3	2173.4	2159.3	2136.7	2107.2	2064.7	2032.1	2002.4
10°	2341.5	2349.9	2347.1	2329.0	2310.8	2273.8	2252.8	2211.7	2157.9	2115.4	2075.5
12.5°	2476.7	2485.6	2461.0	2461.8	2427.5	2398.3	2365.1	2313.3	2251.2	2196.3	2146.5
15°	2652.9	2641.7	2641.7	2627.8	2589.3	2548.9	2514.7	2460.2	2382.0	2316.3	2247.3
17.5°	2790.9	2794.7	2789.0	2756.0	2725.9	2684.0	2621.3	2557.8	2485.2	2397.1	2326.4
20°	2873.5	2873.5	2867.2	2844.9	2805.8	2761.1	2693.4	2624.2	2532.1	2443.5	2363.9
22.5°	2907.0	2909.2	2901.8	2883.4	2848.2	2804.6	2746.9	2676.7	2581.8	2481.9	2383.4
25°	2860.9	2874.2	2875.6	2870.6	2860.2	2833.7	2784.1	2712.2	2627.1	2518.8	2412.7
27.5°	2626.7	2643.4	2658.1	2682.2	2714.3	2731.1	2733.3	2696.7	2622.4	2518.3	2411.5
30°	2393.2	2407.1	2452.6	2511.8	2557.9	2599.8	2636.2	2645.8	2604.0	2510.4	2398.0
32.5°	2134.0	2153.0	2198.4	2262.2	2338.9	2409.9	2491.4	2533.0	2531.9	2475.8	2371.8
35°	1762.1	1776.0	1818.0	1884.9	1977.1	2082.5	2211.7	2312.2	2380.6	2375.7	2312.2
37.5°	1421.1	1436.8	1479.1	1534.8	1624.2	1754.6	1879.7	2018.1	2144.7	2215.7	2194.4
40°	1235.7	1236.4	1277.6	1334.8	1418.6	1532.4	1668.5	1822.1	1963.1	2078.3	2100.6
42.5°	1089.3	1089.4	1116.7	1178.4	1238.8	1345.8	1475.8	1628.3	1793.3	1926.4	1985.6
45°	900.6	906.9	929.2	966.2	1013.7	1104.4	1208.4	1350.2	1535.2	1692.9	1791.4
47.5°	762.7	771.8	786.1	816.3	854.0	914.5	1000.6	1127.9	1278.4	1452.0	1592.1
50°	691.2	692.6	710.6	727.4	760.2	808.4	883.8	990.0	1128.1	1295.1	1450.7
52.5°	629.8	629.4	640.4	661.6	688.2	725.8	786.7	883.2	1005.8	1155.4	1316.1
55°	537.6	541.1	549.5	566.1	586.4	613.0	661.2	733.8	830.1	957.9	1103.8
57.5°	467.5	469.3	475.8	482.9	501.5	520.8	556.9	607.3	688.6	793.2	929.2
60°	421.6	422.3	424.4	434.9	449.6	467.8	492.2	534.7	603.2	698.8	806.4
62.5°	377.0	378.2	381.4	389.1	400.4	413.0	438.6	472.8	529.5	611.2	708.0
65°	314.2	314.9	319.7	322.6	331.6	342.7	361.6	384.7	423.7	492.2	565.5
67.5°	262.5	262.5	262.8	266.5	272.9	280.2	291.5	309.9	339.4	381.4	446.1
70°	228.9	228.9	230.4	232.5	236.0	242.3	248.5	262.5	284.2	318.3	367.9
72.5°	197.7	198.2	199.7	200.1	201.9	207.0	211.7	220.7	236.7	262.5	302.6
75°	145.2	147.3	150.8	153.6	157.0	156.4	161.3	166.8	171.8	187.1	210.2
77.5°	108.1	106.9	107.3	109.8	110.2	110.9	114.3	118.7	122.3	129.6	137.8
80°	82.4	82.4	84.4	85.1	84.4	85.1	88.7	90.8	92.2	94.9	102.6
82.5°	62.3	63.4	62.7	63.4	63.8	64.5	67.5	67.9	69.3	70.4	73.6
85°	34.9	35.6	36.3	34.9	34.9	34.9	36.3	37.0	38.4	37.7	39.1
87.5°	15.7	15.0	15.8	15.7	16.0	15.5	15.9	16.8	15.6	16.3	16.0
90°	16.6	16.6	17.4	16.6	15.8	15.8	15.0	14.2	13.4	14.2	12.6
92.5°	60.8	60.8	63.5	67.8	77.1	92.9	116.7	155.1	208.6	250.4	219.2
95°	192.7	203.0	217.1	241.7	280.3	356.9	462.7	585.1	661.8	643.6	485.6
97.5°	515.0	531.4	555.1	602.7	659.3	741.7	819.0	864.4	831.3	677.8	454.5
100°	724.1	730.4	754.1	802.2	871.0	929.4	968.1	952.3	837.0	634.9	412.2
102.5°	906.1	911.1	936.0	971.0	1013.1	1037.4	1026.2	947.9	789.6	581.2	383.7
105°	1111.1	1115.8	1126.8	1133.2	1131.6	1099.1	1021.0	884.4	703.6	518.0	359.3
107.5°	1187.1	1185.1	1177.2	1159.2	1120.1	1049.8	939.7	794.3	634.1	482.6	354.9
110°	1188.4	1181.3	1167.1	1133.9	1077.8	991.0	876.5	739.9	599.4	470.6	356.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1151.1	1139.6	1119.7	1079.5	1015.9	929.1	820.9	700.1	579.8	464.9	359.9
115°	1066.8	1060.5	1035.2	987.8	925.4	849.6	757.3	660.1	561.4	461.9	367.2
117.5°	981.4	976.4	950.9	911.1	857.9	793.6	720.9	640.6	553.2	461.1	375.0
120°	933.3	924.6	904.1	869.4	824.4	768.3	705.2	631.7	548.8	461.1	380.6
122.5°	895.4	886.8	869.4	839.7	801.6	752.6	695.0	624.1	543.7	460.5	386.3
125°	851.2	846.5	831.5	808.6	777.0	733.6	679.1	611.2	535.3	459.6	394.9
127.5°	825.4	820.6	808.0	787.6	755.9	714.6	660.2	595.4	524.1	457.9	401.6
130°	810.2	805.5	792.8	773.1	740.6	698.8	645.1	582.8	517.3	457.2	406.7
132.5°	793.1	788.4	776.4	754.1	722.4	680.5	628.0	569.5	510.9	456.6	411.1
135°	761.2	756.5	743.9	721.8	690.1	650.7	602.5	551.2	501.4	455.7	417.7
137.5°	721.8	716.0	705.6	683.8	654.3	618.6	578.0	534.6	493.2	455.4	421.6
140°	693.3	687.0	675.9	658.5	631.0	597.7	562.2	525.1	488.8	454.8	424.9
142.5°	663.0	658.5	648.7	632.7	608.1	579.5	549.0	516.2	485.0	454.8	427.4
145°	621.5	617.5	609.6	596.2	576.4	554.3	530.7	503.8	478.5	453.2	428.8
147.5°	584.6	583.2	577.2	565.7	551.2	533.8	514.8	493.5	472.7	450.4	429.6
150°	563.8	563.0	558.3	548.1	535.3	521.2	505.3	487.2	468.3	448.5	429.6
152.5°	544.8	544.0	541.2	532.8	522.1	510.4	495.8	480.3	463.2	445.4	428.3
155°	520.4	520.4	518.0	511.7	503.8	494.3	482.5	469.8	455.7	440.6	426.4
157.5°	498.9	498.9	497.5	492.7	486.8	479.2	469.2	458.6	447.9	435.8	424.3
160°	485.6	485.6	484.8	480.1	475.3	469.1	460.4	451.7	442.2	431.9	422.4
162.5°	473.0	473.6	472.8	468.1	464.6	459.0	452.1	444.7	437.2	428.2	420.6
165°	454.0	454.8	455.7	452.4	449.3	445.4	439.8	435.0	428.8	422.4	417.0
167.5°	439.0	439.7	439.8	437.8	436.2	433.8	429.4	425.8	421.2	416.8	413.1
170°	429.6	429.6	430.3	429.6	428.0	425.7	422.4	420.1	416.2	412.9	410.6
172.5°	420.1	421.3	422.1	421.3	420.4	418.7	416.8	415.1	411.7	409.2	408.1
175°	409.0	410.6	412.2	410.6	410.6	410.6	409.0	408.3	406.7	405.1	405.1
177.5°	402.5	403.8	405.1	404.5	405.1	404.5	404.5	403.8	403.1	402.5	402.5
180°	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1785.2	1777.5	1773.5	1764.5	1753.9	1748.4	1743.3	1736.1	1726.6	1716.6	1709.3
5°	1875.8	1859.1	1838.2	1813.0	1790.7	1769.1	1750.2	1731.3	1709.7	1687.4	1665.1
7.5°	1968.8	1935.9	1900.3	1859.1	1819.1	1782.6	1749.1	1717.0	1680.6	1648.1	1618.5
10°	2033.7	1988.9	1939.3	1887.0	1834.6	1789.3	1744.6	1704.1	1659.4	1619.6	1586.1
12.5°	2086.2	2033.7	1974.0	1908.8	1845.8	1791.0	1739.6	1686.8	1636.0	1592.9	1548.1
15°	2173.2	2101.3	2021.0	1942.9	1861.2	1786.5	1717.4	1656.0	1598.0	1537.3	1494.7
17.5°	2233.1	2147.9	2050.2	1956.3	1859.8	1771.7	1691.9	1618.8	1552.0	1490.0	1439.3
20°	2268.9	2174.6	2066.5	1959.6	1851.4	1757.2	1671.3	1590.3	1521.3	1454.2	1401.8
22.5°	2289.0	2184.7	2066.5	1954.6	1842.5	1740.4	1646.2	1561.9	1486.6	1419.6	1361.6
25°	2295.4	2183.7	2063.0	1934.5	1811.6	1703.4	1605.7	1514.2	1430.5	1363.4	1302.0
27.5°	2286.5	2155.0	2031.2	1899.5	1772.7	1658.6	1556.0	1460.0	1376.0	1304.1	1241.1
30°	2273.1	2132.0	1999.4	1862.6	1734.1	1624.6	1516.3	1424.2	1336.9	1262.2	1198.7
32.5°	2244.0	2104.2	1961.5	1821.3	1691.1	1578.2	1475.5	1382.8	1297.3	1220.9	1153.5
35°	2186.6	2044.8	1889.9	1746.1	1618.2	1501.0	1404.6	1315.2	1233.6	1152.0	1080.7
37.5°	2110.7	1965.9	1811.8	1654.3	1526.4	1415.6	1327.3	1243.3	1163.7	1089.0	1010.2
40°	2039.2	1907.2	1748.1	1591.7	1460.5	1353.6	1272.0	1195.9	1115.6	1041.6	962.7
42.5°	1952.7	1840.3	1679.4	1522.5	1392.9	1290.0	1213.9	1139.4	1066.4	994.7	912.4
45°	1808.2	1722.9	1572.2	1421.4	1290.8	1188.9	1119.1	1053.5	989.3	920.8	843.3
47.5°	1642.5	1584.9	1454.7	1300.3	1179.5	1087.8	1020.4	966.7	912.4	844.0	776.1
50°	1527.5	1490.5	1364.8	1223.9	1108.6	1024.1	955.0	904.7	859.4	793.8	733.1
52.5°	1404.6	1384.9	1278.8	1144.0	1032.7	949.9	890.8	845.6	799.6	745.2	688.3
55°	1217.5	1228.0	1137.9	1021.4	916.7	846.9	793.0	755.4	716.3	670.2	626.2
57.5°	1026.2	1064.5	1004.0	901.7	803.5	739.0	698.5	666.8	634.0	595.8	558.3
60°	911.7	943.8	909.7	819.6	733.8	673.7	636.0	611.6	578.8	543.8	515.2
62.5°	800.0	834.4	814.2	741.4	661.7	610.1	576.8	554.0	529.6	499.2	469.4
65°	659.7	682.1	672.3	622.1	565.5	521.5	490.8	474.0	451.7	429.4	402.8
67.5°	505.3	548.5	542.7	516.0	467.2	432.8	412.7	397.9	377.6	360.9	343.0
70°	415.4	455.1	454.4	432.8	406.3	374.2	360.2	347.7	329.5	313.5	298.8
72.5°	340.0	376.5	381.8	365.3	347.1	322.9	309.4	300.7	283.2	272.2	260.2
75°	238.0	264.6	271.6	271.6	263.2	250.6	238.7	233.2	220.7	210.9	203.9
77.5°	156.1	172.9	183.8	186.2	187.5	183.3	173.6	169.7	160.0	156.5	149.9
80°	110.3	121.5	134.0	138.3	141.7	140.4	136.1	133.3	124.3	120.8	118.0
82.5°	76.2	82.4	92.7	101.9	101.0	104.6	101.0	98.8	91.9	90.6	87.9
85°	39.8	40.5	41.9	48.2	51.7	53.0	53.7	52.3	50.3	50.3	45.3
87.5°	15.7	15.0	15.2	15.2	15.7	17.7	18.9	19.2	17.8	16.6	15.0
90°	11.0	11.0	6.4	6.4	5.6	4.7	2.3	0.8	2.3	4.7	5.6
92.5°	159.5	98.3	58.1	41.7	30.2	20.5	13.1	9.0	13.1	20.5	30.2
95°	296.9	167.4	98.7	65.5	46.6	36.4	28.4	26.1	28.4	36.4	46.6
97.5°	266.9	160.0	107.0	79.3	63.0	53.5	46.8	46.8	46.8	53.5	63.0
100°	251.2	161.9	115.3	90.0	75.0	65.5	60.0	60.0	60.0	65.5	75.0
102.5°	246.7	168.1	126.0	102.0	87.7	78.8	73.9	72.6	73.9	78.8	87.7
105°	248.7	183.2	145.3	122.4	108.2	98.7	94.7	92.4	94.7	98.7	108.2
107.5°	260.4	200.8	166.0	143.4	129.8	119.7	115.7	114.2	115.7	119.7	129.8
110°	269.2	214.0	179.3	157.9	143.7	134.2	130.3	128.8	130.3	134.2	143.7



TEST NUMBER: P332969-840

CATALOG NUMBER: SA4XXRDIP-C1020D810U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	278.7	226.6	193.2	171.8	157.6	148.8	144.2	142.6	144.2	148.8	157.6
115°	293.8	246.4	214.8	193.5	178.4	170.6	165.0	162.7	165.0	170.6	178.4
117.5°	309.0	265.5	235.5	213.4	199.3	190.7	185.7	183.5	185.7	190.7	199.3
120°	319.8	278.7	248.7	226.6	213.2	204.5	198.9	197.4	198.9	204.5	213.2
122.5°	329.9	291.3	261.4	239.8	225.2	217.1	211.7	210.1	211.7	217.1	225.2
125°	345.1	308.7	280.3	258.2	243.2	234.5	229.7	226.6	229.7	234.5	243.2
127.5°	358.2	324.9	297.4	275.1	259.4	249.5	243.9	241.4	243.9	249.5	259.4
130°	366.4	335.6	308.7	285.9	270.8	259.0	252.7	249.5	252.7	259.0	270.8
132.5°	374.6	344.5	317.6	296.0	279.7	268.5	260.2	257.7	260.2	268.5	279.7
135°	385.4	356.9	330.8	310.3	293.8	280.3	272.5	269.2	272.5	280.3	293.8
137.5°	392.9	366.4	342.0	322.4	305.3	292.5	283.8	280.8	283.8	292.5	305.3
140°	398.0	372.7	349.0	330.0	313.5	300.0	291.3	289.0	291.3	300.0	313.5
142.5°	401.7	378.4	355.4	337.0	321.0	308.3	300.2	297.8	300.2	308.3	321.0
145°	405.9	384.6	364.1	346.7	331.6	320.6	312.7	310.3	312.7	320.6	331.6
147.5°	409.5	390.9	371.6	356.0	343.5	332.1	325.2	324.4	325.2	332.1	343.5
150°	411.4	394.0	376.7	361.6	349.8	340.3	334.1	333.3	334.1	340.3	349.8
152.5°	412.6	396.6	381.1	367.4	356.8	347.9	341.6	341.4	341.6	347.9	356.8
155°	413.7	400.3	386.9	375.1	366.4	358.5	353.8	352.9	353.8	358.5	366.4
157.5°	413.7	403.0	391.6	382.3	374.8	368.6	364.2	364.2	364.2	368.6	374.8
160°	413.7	404.2	394.9	386.2	379.8	374.3	371.1	371.1	371.1	374.3	379.8
162.5°	413.7	405.6	396.7	389.9	384.3	379.3	376.8	377.5	376.8	379.3	384.3
165°	412.2	405.9	398.8	394.0	390.1	386.2	384.6	384.6	384.6	386.2	390.1
167.5°	410.3	405.8	400.5	396.9	394.7	391.6	390.9	391.6	390.9	391.6	394.7
170°	409.0	405.1	401.1	398.8	397.2	394.9	394.0	394.9	394.0	394.9	397.2
172.5°	407.8	404.5	401.7	400.0	399.1	397.4	397.2	398.0	397.2	397.4	399.1
175°	405.9	403.5	401.9	401.9	401.1	400.3	400.3	401.1	400.3	400.3	401.1
177.5°	403.8	402.5	401.9	401.9	401.9	401.3	401.9	402.5	401.9	401.3	401.9
180°	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9



TEST NUMBER: P332969-840

CATALOG NUMBER: SA4XXRDIP-C1020D810U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1701.4	1695.9	1688.6	1680.2	1670.2	1661.2	1657.4	1660.7	1662.3	1657.9	1657.4
5°	1649.7	1632.2	1618.2	1597.3	1580.5	1566.6	1556.8	1552.7	1554.0	1542.9	1540.0
7.5°	1591.4	1570.7	1547.9	1523.0	1499.9	1479.4	1468.5	1462.7	1450.9	1445.8	1437.3
10°	1554.0	1526.1	1503.8	1474.4	1447.9	1423.5	1411.6	1401.8	1390.0	1384.4	1372.5
12.5°	1515.5	1483.1	1458.5	1428.1	1401.0	1371.5	1360.2	1342.1	1323.5	1311.8	1296.6
15°	1461.2	1422.1	1392.1	1355.7	1323.6	1290.1	1260.1	1226.6	1214.1	1187.5	1172.2
17.5°	1397.7	1358.0	1320.8	1272.1	1222.5	1180.9	1148.9	1116.8	1097.6	1080.7	1072.9
20°	1355.7	1319.5	1267.8	1211.2	1156.1	1110.0	1084.2	1063.3	1042.3	1030.5	1022.1
22.5°	1316.1	1269.7	1209.7	1148.7	1093.6	1057.5	1035.6	1014.1	997.0	985.7	974.6
25°	1249.6	1188.9	1125.4	1055.6	1017.8	986.4	962.7	945.2	934.8	920.1	914.5
27.5°	1181.3	1107.8	1037.7	990.8	951.5	922.8	902.1	889.0	875.8	866.4	859.1
30°	1128.8	1054.2	991.4	946.6	906.9	883.1	866.4	851.0	840.5	832.8	827.3
32.5°	1076.9	1002.2	949.5	901.4	870.0	846.9	829.0	817.5	809.3	799.3	796.0
35°	1001.8	935.4	889.4	846.2	814.1	793.0	779.1	767.2	760.2	757.5	755.4
37.5°	929.6	875.4	825.8	790.3	761.6	745.2	728.7	722.9	718.1	713.1	715.3
40°	883.8	832.8	788.9	751.1	728.1	710.0	700.2	693.3	689.0	689.0	689.0
42.5°	844.1	794.4	751.4	717.7	694.6	679.2	668.4	662.5	661.2	660.6	663.9
45°	782.6	736.5	693.3	665.3	645.8	630.4	624.1	619.2	619.2	622.1	622.7
47.5°	721.5	678.4	643.7	612.4	594.5	584.9	579.5	576.9	577.2	580.0	583.2
50°	684.2	641.6	607.3	579.5	562.7	553.6	548.8	547.3	548.8	548.8	553.6
52.5°	643.4	605.3	571.6	548.2	529.2	520.7	518.0	516.0	516.8	519.2	521.2
55°	583.6	549.5	517.4	494.9	481.0	475.4	469.2	469.8	468.5	469.8	469.8
57.5°	523.7	493.0	463.1	445.5	433.1	425.1	418.2	420.1	418.1	417.8	416.7
60°	485.2	451.7	428.0	411.9	397.9	390.9	384.7	386.1	384.0	382.5	379.8
62.5°	443.3	415.4	392.7	377.3	366.1	358.0	351.7	350.3	345.5	340.7	334.6
65°	382.5	359.5	339.3	324.7	314.2	307.9	303.0	298.8	288.3	277.1	271.6
67.5°	323.6	306.9	288.0	275.6	267.1	258.8	249.5	242.4	232.6	226.5	223.0
70°	285.5	269.4	253.4	241.6	232.5	224.8	214.3	209.4	202.5	199.7	196.2
72.5°	249.2	234.3	219.3	208.6	198.9	193.0	184.7	179.9	176.7	175.6	172.2
75°	194.1	182.2	171.1	161.3	153.6	149.4	145.9	142.4	141.0	134.7	131.3
77.5°	141.6	133.8	126.7	119.8	114.3	111.6	104.8	100.8	98.5	95.5	94.8
80°	110.3	104.7	97.8	93.5	85.8	83.1	80.3	79.6	78.9	78.2	77.5
82.5°	82.9	77.4	70.4	67.9	65.7	64.1	62.4	61.7	61.0	61.4	61.3
85°	41.9	39.1	39.1	38.4	37.7	37.0	36.3	36.3	35.6	36.3	35.6
87.5°	15.2	14.6	15.7	14.5	15.3	15.7	14.9	15.1	15.9	14.8	14.8
90°	6.4	6.4	11.0	11.0	12.6	14.2	13.4	14.2	15.0	15.8	15.8
92.5°	41.7	58.1	98.3	159.5	219.2	250.4	208.6	155.1	116.7	92.9	77.1
95°	65.5	98.7	167.4	296.9	485.6	643.6	661.8	585.1	462.7	356.9	280.3
97.5°	79.3	107.0	160.0	266.9	454.5	677.8	831.3	864.4	819.0	741.7	659.3
100°	90.0	115.3	161.9	251.2	412.2	634.9	837.0	952.3	968.1	929.4	871.0
102.5°	102.0	126.0	168.1	246.7	383.7	581.2	789.6	947.9	1026.2	1037.4	1013.1
105°	122.4	145.3	183.2	248.7	359.3	518.0	703.6	884.4	1021.0	1099.1	1131.6
107.5°	143.4	166.0	200.8	260.4	354.9	482.6	634.1	794.3	939.7	1049.8	1120.1
110°	157.9	179.3	214.0	269.2	356.1	470.6	599.4	739.9	876.5	991.0	1077.8



TEST NUMBER: P332969-840

CATALOG NUMBER: SA4XXRDIP-C1020D810U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	171.8	193.2	226.6	278.7	359.9	464.9	579.8	700.1	820.9	929.1	1015.9
115°	193.5	214.8	246.4	293.8	367.2	461.9	561.4	660.1	757.3	849.6	925.4
117.5°	213.4	235.5	265.5	309.0	375.0	461.1	553.2	640.6	720.9	793.6	857.9
120°	226.6	248.7	278.7	319.8	380.6	461.1	548.8	631.7	705.2	768.3	824.4
122.5°	239.8	261.4	291.3	329.9	386.3	460.5	543.7	624.1	695.0	752.6	801.6
125°	258.2	280.3	308.7	345.1	394.9	459.6	535.3	611.2	679.1	733.6	777.0
127.5°	275.1	297.4	324.9	358.2	401.6	457.9	524.1	595.4	660.2	714.6	755.9
130°	285.9	308.7	335.6	366.4	406.7	457.2	517.3	582.8	645.1	698.8	740.6
132.5°	296.0	317.6	344.5	374.6	411.1	456.6	510.9	569.5	628.0	680.5	722.4
135°	310.3	330.8	356.9	385.4	417.7	455.7	501.4	551.2	602.5	650.7	690.1
137.5°	322.4	342.0	366.4	392.9	421.6	455.4	493.2	534.6	578.0	618.6	654.3
140°	330.0	349.0	372.7	398.0	424.9	454.8	488.8	525.1	562.2	597.7	631.0
142.5°	337.0	355.4	378.4	401.7	427.4	454.8	485.0	516.2	549.0	579.5	608.1
145°	346.7	364.1	384.6	405.9	428.8	453.2	478.5	503.8	530.7	554.3	576.4
147.5°	356.0	371.6	390.9	409.5	429.6	450.4	472.7	493.5	514.8	533.8	551.2
150°	361.6	376.7	394.0	411.4	429.6	448.5	468.3	487.2	505.3	521.2	535.3
152.5°	367.4	381.1	396.6	412.6	428.3	445.4	463.2	480.3	495.8	510.4	522.1
155°	375.1	386.9	400.3	413.7	426.4	440.6	455.7	469.8	482.5	494.3	503.8
157.5°	382.3	391.6	403.0	413.7	424.3	435.8	447.9	458.6	469.2	479.2	486.8
160°	386.2	394.9	404.2	413.7	422.4	431.9	442.2	451.7	460.4	469.1	475.3
162.5°	389.9	396.7	405.6	413.7	420.6	428.2	437.2	444.7	452.1	459.0	464.6
165°	394.0	398.8	405.9	412.2	417.0	422.4	428.8	435.0	439.8	445.4	449.3
167.5°	396.9	400.5	405.8	410.3	413.1	416.8	421.2	425.8	429.4	433.8	436.2
170°	398.8	401.1	405.1	409.0	410.6	412.9	416.2	420.1	422.4	425.7	428.0
172.5°	400.0	401.7	404.5	407.8	408.1	409.2	411.7	415.1	416.8	418.7	420.4
175°	401.9	401.9	403.5	405.9	405.1	405.1	406.7	408.3	409.0	410.6	410.6
177.5°	401.9	401.9	402.5	403.8	402.5	402.5	403.1	403.8	404.5	404.5	405.1
180°	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9



TEST NUMBER: P332969-840

CATALOG NUMBER: SA4XXRDIP-C1020D810U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1654.0	1655.1	1651.2	1650.1	1651.2	1655.1	1654.0	1657.4	1657.9	1662.3	1660.7
5°	1534.5	1533.1	1529.5	1530.2	1529.5	1533.1	1534.5	1540.0	1542.9	1554.0	1552.7
7.5°	1432.3	1426.8	1428.4	1422.8	1428.4	1426.8	1432.3	1437.3	1445.8	1450.9	1462.7
10°	1369.7	1362.0	1355.7	1350.2	1355.7	1362.0	1369.7	1372.5	1384.4	1390.0	1401.8
12.5°	1284.2	1277.7	1269.2	1270.9	1269.2	1277.7	1284.2	1296.6	1311.8	1323.5	1342.1
15°	1163.1	1152.6	1135.9	1137.9	1135.9	1152.6	1163.1	1172.2	1187.5	1214.1	1226.6
17.5°	1060.5	1060.6	1052.9	1054.7	1052.9	1060.6	1060.5	1072.9	1080.7	1097.6	1116.8
20°	1007.4	1002.5	1003.2	1001.1	1003.2	1002.5	1007.4	1022.1	1030.5	1042.3	1063.3
22.5°	970.6	964.5	959.7	955.3	959.7	964.5	970.6	974.6	985.7	997.0	1014.1
25°	908.3	904.0	897.8	896.4	897.8	904.0	908.3	914.5	920.1	934.8	945.2
27.5°	853.5	852.7	850.2	847.0	850.2	852.7	853.5	859.1	866.4	875.8	889.0
30°	821.7	820.3	818.9	816.8	818.9	820.3	821.7	827.3	832.8	840.5	851.0
32.5°	793.2	792.3	790.9	791.1	790.9	792.3	793.2	796.0	799.3	809.3	817.5
35°	752.6	751.8	750.5	749.8	750.5	751.8	752.6	755.4	757.5	760.2	767.2
37.5°	714.6	716.4	715.6	715.4	715.6	716.4	714.6	715.3	713.1	718.1	722.9
40°	688.3	689.0	690.4	689.7	690.4	689.0	688.3	689.0	689.0	689.0	693.3
42.5°	666.6	666.7	668.6	666.3	668.6	666.7	666.6	663.9	660.6	661.2	662.5
45°	627.6	631.8	631.1	631.1	631.1	631.8	627.6	622.7	622.1	619.2	619.2
47.5°	585.0	588.7	589.7	589.5	589.7	588.7	585.0	583.2	580.0	577.2	576.9
50°	557.1	555.7	557.8	557.1	557.8	555.7	557.1	553.6	548.8	548.8	547.3
52.5°	523.0	523.3	523.2	522.5	523.2	523.3	523.0	521.2	519.2	516.8	516.0
55°	470.5	471.2	469.8	470.5	469.8	471.2	470.5	469.8	469.8	468.5	469.8
57.5°	413.5	410.2	411.6	409.9	411.6	410.2	413.5	416.7	417.8	418.1	420.1
60°	372.8	367.2	365.8	363.0	365.8	367.2	372.8	379.8	382.5	384.0	386.1
62.5°	327.0	323.1	318.3	320.5	318.3	323.1	327.0	334.6	340.7	345.5	350.3
65°	266.0	263.2	261.1	263.9	261.1	263.2	266.0	271.6	277.1	288.3	298.8
67.5°	220.2	218.6	218.6	217.2	218.6	218.6	220.2	223.0	226.5	232.6	242.4
70°	196.2	194.1	194.1	192.7	194.1	194.1	196.2	196.2	199.7	202.5	209.4
72.5°	171.6	169.5	170.1	169.3	170.1	169.5	171.6	172.2	175.6	176.7	179.9
75°	127.0	123.6	123.6	124.3	123.6	123.6	127.0	131.3	134.7	141.0	142.4
77.5°	94.8	94.1	95.1	93.8	95.1	94.1	94.8	94.8	95.5	98.5	100.8
80°	77.5	76.7	76.1	78.2	76.1	76.7	77.5	77.5	78.2	78.9	79.6
82.5°	60.2	60.1	59.9	62.5	59.9	60.1	60.2	61.3	61.4	61.0	61.7
85°	36.3	34.9	36.3	34.9	36.3	34.9	36.3	35.6	36.3	35.6	36.3
87.5°	16.2	15.8	15.0	15.7	15.0	15.8	16.2	14.8	14.8	15.9	15.1
90°	16.6	17.4	16.6	16.6	16.6	17.4	16.6	15.8	15.8	15.0	14.2
92.5°	67.8	63.5	60.8	60.8	60.8	63.5	67.8	77.1	92.9	116.7	155.1
95°	241.7	217.1	203.0	192.7	203.0	217.1	241.7	280.3	356.9	462.7	585.1
97.5°	602.7	555.1	531.4	515.0	531.4	555.1	602.7	659.3	741.7	819.0	864.4
100°	802.2	754.1	730.4	724.1	730.4	754.1	802.2	871.0	929.4	968.1	952.3
102.5°	971.0	936.0	911.1	906.1	911.1	936.0	971.0	1013.1	1037.4	1026.2	947.9
105°	1133.2	1126.8	1115.8	1111.1	1115.8	1126.8	1133.2	1131.6	1099.1	1021.0	884.4
107.5°	1159.2	1177.2	1185.1	1187.1	1185.1	1177.2	1159.2	1120.1	1049.8	939.7	794.3
110°	1133.9	1167.1	1181.3	1188.4	1181.3	1167.1	1133.9	1077.8	991.0	876.5	739.9



TEST NUMBER: P332969-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1079.5	1119.7	1139.6	1151.1	1139.6	1119.7	1079.5	1015.9	929.1	820.9	700.1
115°	987.8	1035.2	1060.5	1066.8	1060.5	1035.2	987.8	925.4	849.6	757.3	660.1
117.5°	911.1	950.9	976.4	981.4	976.4	950.9	911.1	857.9	793.6	720.9	640.6
120°	869.4	904.1	924.6	933.3	924.6	904.1	869.4	824.4	768.3	705.2	631.7
122.5°	839.7	869.4	886.8	895.4	886.8	869.4	839.7	801.6	752.6	695.0	624.1
125°	808.6	831.5	846.5	851.2	846.5	831.5	808.6	777.0	733.6	679.1	611.2
127.5°	787.6	808.0	820.6	825.4	820.6	808.0	787.6	755.9	714.6	660.2	595.4
130°	773.1	792.8	805.5	810.2	805.5	792.8	773.1	740.6	698.8	645.1	582.8
132.5°	754.1	776.4	788.4	793.1	788.4	776.4	754.1	722.4	680.5	628.0	569.5
135°	721.8	743.9	756.5	761.2	756.5	743.9	721.8	690.1	650.7	602.5	551.2
137.5°	683.8	705.6	716.0	721.8	716.0	705.6	683.8	654.3	618.6	578.0	534.6
140°	658.5	675.9	687.0	693.3	687.0	675.9	658.5	631.0	597.7	562.2	525.1
142.5°	632.7	648.7	658.5	663.0	658.5	648.7	632.7	608.1	579.5	549.0	516.2
145°	596.2	609.6	617.5	621.5	617.5	609.6	596.2	576.4	554.3	530.7	503.8
147.5°	565.7	577.2	583.2	584.6	583.2	577.2	565.7	551.2	533.8	514.8	493.5
150°	548.1	558.3	563.0	563.8	563.0	558.3	548.1	535.3	521.2	505.3	487.2
152.5°	532.8	541.2	544.0	544.8	544.0	541.2	532.8	522.1	510.4	495.8	480.3
155°	511.7	518.0	520.4	520.4	520.4	518.0	511.7	503.8	494.3	482.5	469.8
157.5°	492.7	497.5	498.9	498.9	498.9	497.5	492.7	486.8	479.2	469.2	458.6
160°	480.1	484.8	485.6	485.6	485.6	484.8	480.1	475.3	469.1	460.4	451.7
162.5°	468.1	472.8	473.6	473.0	473.6	472.8	468.1	464.6	459.0	452.1	444.7
165°	452.4	455.7	454.8	454.0	454.8	455.7	452.4	449.3	445.4	439.8	435.0
167.5°	437.8	439.8	439.7	439.0	439.7	439.8	437.8	436.2	433.8	429.4	425.8
170°	429.6	430.3	429.6	429.6	429.6	430.3	429.6	428.0	425.7	422.4	420.1
172.5°	421.3	422.1	421.3	420.1	421.3	422.1	421.3	420.4	418.7	416.8	415.1
175°	410.6	412.2	410.6	409.0	410.6	412.2	410.6	410.6	410.6	409.0	408.3
177.5°	404.5	405.1	403.8	402.5	403.8	405.1	404.5	405.1	404.5	404.5	403.8
180°	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9



TEST NUMBER: P332969-840

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1657.4	1661.2	1670.2	1680.2	1688.6	1695.9	1701.4	1709.3	1716.6	1726.6	1736.1
5°	1556.8	1566.6	1580.5	1597.3	1618.2	1632.2	1649.7	1665.1	1687.4	1709.7	1731.3
7.5°	1468.5	1479.4	1499.9	1523.0	1547.9	1570.7	1591.4	1618.5	1648.1	1680.6	1717.0
10°	1411.6	1423.5	1447.9	1474.4	1503.8	1526.1	1554.0	1586.1	1619.6	1659.4	1704.1
12.5°	1360.2	1371.5	1401.0	1428.1	1458.5	1483.1	1515.5	1548.1	1592.9	1636.0	1686.8
15°	1260.1	1290.1	1323.6	1355.7	1392.1	1422.1	1461.2	1494.7	1537.3	1598.0	1656.0
17.5°	1148.9	1180.9	1222.5	1272.1	1320.8	1358.0	1397.7	1439.3	1490.0	1552.0	1618.8
20°	1084.2	1110.0	1156.1	1211.2	1267.8	1319.5	1355.7	1401.8	1454.2	1521.3	1590.3
22.5°	1035.6	1057.5	1093.6	1148.7	1209.7	1269.7	1316.1	1361.6	1419.6	1486.6	1561.9
25°	962.7	986.4	1017.8	1055.6	1125.4	1188.9	1249.6	1302.0	1363.4	1430.5	1514.2
27.5°	902.1	922.8	951.5	990.8	1037.7	1107.8	1181.3	1241.1	1304.1	1376.0	1460.0
30°	866.4	883.1	906.9	946.6	991.4	1054.2	1128.8	1198.7	1262.2	1336.9	1424.2
32.5°	829.0	846.9	870.0	901.4	949.5	1002.2	1076.9	1153.5	1220.9	1297.3	1382.8
35°	779.1	793.0	814.1	846.2	889.4	935.4	1001.8	1080.7	1152.0	1233.6	1315.2
37.5°	728.7	745.2	761.6	790.3	825.8	875.4	929.6	1010.2	1089.0	1163.7	1243.3
40°	700.2	710.0	728.1	751.1	788.9	832.8	883.8	962.7	1041.6	1115.6	1195.9
42.5°	668.4	679.2	694.6	717.7	751.4	794.4	844.1	912.4	994.7	1066.4	1139.4
45°	624.1	630.4	645.8	665.3	693.3	736.5	782.6	843.3	920.8	989.3	1053.5
47.5°	579.5	584.9	594.5	612.4	643.7	678.4	721.5	776.1	844.0	912.4	966.7
50°	548.8	553.6	562.7	579.5	607.3	641.6	684.2	733.1	793.8	859.4	904.7
52.5°	518.0	520.7	529.2	548.2	571.6	605.3	643.4	688.3	745.2	799.6	845.6
55°	469.2	475.4	481.0	494.9	517.4	549.5	583.6	626.2	670.2	716.3	755.4
57.5°	418.2	425.1	433.1	445.5	463.1	493.0	523.7	558.3	595.8	634.0	666.8
60°	384.7	390.9	397.9	411.9	428.0	451.7	485.2	515.2	543.8	578.8	611.6
62.5°	351.7	358.0	366.1	377.3	392.7	415.4	443.3	469.4	499.2	529.6	554.0
65°	303.0	307.9	314.2	324.7	339.3	359.5	382.5	402.8	429.4	451.7	474.0
67.5°	249.5	258.8	267.1	275.6	288.0	306.9	323.6	343.0	360.9	377.6	397.9
70°	214.3	224.8	232.5	241.6	253.4	269.4	285.5	298.8	313.5	329.5	347.7
72.5°	184.7	193.0	198.9	208.6	219.3	234.3	249.2	260.2	272.2	283.2	300.7
75°	145.9	149.4	153.6	161.3	171.1	182.2	194.1	203.9	210.9	220.7	233.2
77.5°	104.8	111.6	114.3	119.8	126.7	133.8	141.6	149.9	156.5	160.0	169.7
80°	80.3	83.1	85.8	93.5	97.8	104.7	110.3	118.0	120.8	124.3	133.3
82.5°	62.4	64.1	65.7	67.9	70.4	77.4	82.9	87.9	90.6	91.9	98.8
85°	36.3	37.0	37.7	38.4	39.1	39.1	41.9	45.3	50.3	50.3	52.3
87.5°	14.9	15.7	15.3	14.5	15.7	14.6	15.2	15.0	16.6	17.8	19.2
90°	13.4	14.2	12.6	11.0	11.0	6.4	6.4	5.6	4.7	2.3	0.8
92.5°	208.6	250.4	219.2	159.5	98.3	58.1	41.7	30.2	20.5	13.1	9.0
95°	661.8	643.6	485.6	296.9	167.4	98.7	65.5	46.6	36.4	28.4	26.1
97.5°	831.3	677.8	454.5	266.9	160.0	107.0	79.3	63.0	53.5	46.8	46.8
100°	837.0	634.9	412.2	251.2	161.9	115.3	90.0	75.0	65.5	60.0	60.0
102.5°	789.6	581.2	383.7	246.7	168.1	126.0	102.0	87.7	78.8	73.9	72.6
105°	703.6	518.0	359.3	248.7	183.2	145.3	122.4	108.2	98.7	94.7	92.4
107.5°	634.1	482.6	354.9	260.4	200.8	166.0	143.4	129.8	119.7	115.7	114.2
110°	599.4	470.6	356.1	269.2	214.0	179.3	157.9	143.7	134.2	130.3	128.8



TEST NUMBER: P332969-840

CATALOG NUMBER: SA4XXRDIP-C1020D810U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	579.8	464.9	359.9	278.7	226.6	193.2	171.8	157.6	148.8	144.2	142.6
115°	561.4	461.9	367.2	293.8	246.4	214.8	193.5	178.4	170.6	165.0	162.7
117.5°	553.2	461.1	375.0	309.0	265.5	235.5	213.4	199.3	190.7	185.7	183.5
120°	548.8	461.1	380.6	319.8	278.7	248.7	226.6	213.2	204.5	198.9	197.4
122.5°	543.7	460.5	386.3	329.9	291.3	261.4	239.8	225.2	217.1	211.7	210.1
125°	535.3	459.6	394.9	345.1	308.7	280.3	258.2	243.2	234.5	229.7	226.6
127.5°	524.1	457.9	401.6	358.2	324.9	297.4	275.1	259.4	249.5	243.9	241.4
130°	517.3	457.2	406.7	366.4	335.6	308.7	285.9	270.8	259.0	252.7	249.5
132.5°	510.9	456.6	411.1	374.6	344.5	317.6	296.0	279.7	268.5	260.2	257.7
135°	501.4	455.7	417.7	385.4	356.9	330.8	310.3	293.8	280.3	272.5	269.2
137.5°	493.2	455.4	421.6	392.9	366.4	342.0	322.4	305.3	292.5	283.8	280.8
140°	488.8	454.8	424.9	398.0	372.7	349.0	330.0	313.5	300.0	291.3	289.0
142.5°	485.0	454.8	427.4	401.7	378.4	355.4	337.0	321.0	308.3	300.2	297.8
145°	478.5	453.2	428.8	405.9	384.6	364.1	346.7	331.6	320.6	312.7	310.3
147.5°	472.7	450.4	429.6	409.5	390.9	371.6	356.0	343.5	332.1	325.2	324.4
150°	468.3	448.5	429.6	411.4	394.0	376.7	361.6	349.8	340.3	334.1	333.3
152.5°	463.2	445.4	428.3	412.6	396.6	381.1	367.4	356.8	347.9	341.6	341.4
155°	455.7	440.6	426.4	413.7	400.3	386.9	375.1	366.4	358.5	353.8	352.9
157.5°	447.9	435.8	424.3	413.7	403.0	391.6	382.3	374.8	368.6	364.2	364.2
160°	442.2	431.9	422.4	413.7	404.2	394.9	386.2	379.8	374.3	371.1	371.1
162.5°	437.2	428.2	420.6	413.7	405.6	396.7	389.9	384.3	379.3	376.8	377.5
165°	428.8	422.4	417.0	412.2	405.9	398.8	394.0	390.1	386.2	384.6	384.6
167.5°	421.2	416.8	413.1	410.3	405.8	400.5	396.9	394.7	391.6	390.9	391.6
170°	416.2	412.9	410.6	409.0	405.1	401.1	398.8	397.2	394.9	394.0	394.9
172.5°	411.7	409.2	408.1	407.8	404.5	401.7	400.0	399.1	397.4	397.2	398.0
175°	406.7	405.1	405.1	405.9	403.5	401.9	401.9	401.1	400.3	400.3	401.1
177.5°	403.1	402.5	402.5	403.8	402.5	401.9	401.9	401.9	401.3	401.9	402.5
180°	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9



TEST NUMBER: P332969-840

CATALOG NUMBER: SA4XXRDIP-C1020D810U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1743.3	1748.4	1753.9	1764.5	1773.5	1777.5	1785.2	1790.8	1789.2	1797.0	1810.4
5°	1750.2	1769.1	1790.7	1813.0	1838.2	1859.1	1875.8	1892.6	1905.9	1922.0	1945.7
7.5°	1749.1	1782.6	1819.1	1859.1	1900.3	1935.9	1968.8	2002.4	2032.1	2064.7	2107.2
10°	1744.6	1789.3	1834.6	1887.0	1939.3	1988.9	2033.7	2075.5	2115.4	2157.9	2211.7
12.5°	1739.6	1791.0	1845.8	1908.8	1974.0	2033.7	2086.2	2146.5	2196.3	2251.2	2313.3
15°	1717.4	1786.5	1861.2	1942.9	2021.0	2101.3	2173.2	2247.3	2316.3	2382.0	2460.2
17.5°	1691.9	1771.7	1859.8	1956.3	2050.2	2147.9	2233.1	2326.4	2397.1	2485.2	2557.8
20°	1671.3	1757.2	1851.4	1959.6	2066.5	2174.6	2268.9	2363.9	2443.5	2532.1	2624.2
22.5°	1646.2	1740.4	1842.5	1954.6	2066.5	2184.7	2289.0	2383.4	2481.9	2581.8	2676.7
25°	1605.7	1703.4	1811.6	1934.5	2063.0	2183.7	2295.4	2412.7	2518.8	2627.1	2712.2
27.5°	1556.0	1658.6	1772.7	1899.5	2031.2	2155.0	2286.5	2411.5	2518.3	2622.4	2696.7
30°	1516.3	1624.6	1734.1	1862.6	1999.4	2132.0	2273.1	2398.0	2510.4	2604.0	2645.8
32.5°	1475.5	1578.2	1691.1	1821.3	1961.5	2104.2	2244.0	2371.8	2475.8	2531.9	2533.0
35°	1404.6	1501.0	1618.2	1746.1	1889.9	2044.8	2186.6	2312.2	2375.7	2380.6	2312.2
37.5°	1327.3	1415.6	1526.4	1654.3	1811.8	1965.9	2110.7	2194.4	2215.7	2144.7	2018.1
40°	1272.0	1353.6	1460.5	1591.7	1748.1	1907.2	2039.2	2100.6	2078.3	1963.1	1822.1
42.5°	1213.9	1290.0	1392.9	1522.5	1679.4	1840.3	1952.7	1985.6	1926.4	1793.3	1628.3
45°	1119.1	1188.9	1290.8	1421.4	1572.2	1722.9	1808.2	1791.4	1692.9	1535.2	1350.2
47.5°	1020.4	1087.8	1179.5	1300.3	1454.7	1584.9	1642.5	1592.1	1452.0	1278.4	1127.9
50°	955.0	1024.1	1108.6	1223.9	1364.8	1490.5	1527.5	1450.7	1295.1	1128.1	990.0
52.5°	890.8	949.9	1032.7	1144.0	1278.8	1384.9	1404.6	1316.1	1155.4	1005.8	883.2
55°	793.0	846.9	916.7	1021.4	1137.9	1228.0	1217.5	1103.8	957.9	830.1	733.8
57.5°	698.5	739.0	803.5	901.7	1004.0	1064.5	1026.2	929.2	793.2	688.6	607.3
60°	636.0	673.7	733.8	819.6	909.7	943.8	911.7	806.4	698.8	603.2	534.7
62.5°	576.8	610.1	661.7	741.4	814.2	834.4	800.0	708.0	611.2	529.5	472.8
65°	490.8	521.5	565.5	622.1	672.3	682.1	659.7	565.5	492.2	423.7	384.7
67.5°	412.7	432.8	467.2	516.0	542.7	548.5	505.3	446.1	381.4	339.4	309.9
70°	360.2	374.2	406.3	432.8	454.4	455.1	415.4	367.9	318.3	284.2	262.5
72.5°	309.4	322.9	347.1	365.3	381.8	376.5	340.0	302.6	262.5	236.7	220.7
75°	238.7	250.6	263.2	271.6	271.6	264.6	238.0	210.2	187.1	171.8	166.8
77.5°	173.6	183.3	187.5	186.2	183.8	172.9	156.1	137.8	129.6	122.3	118.7
80°	136.1	140.4	141.7	138.3	134.0	121.5	110.3	102.6	94.9	92.2	90.8
82.5°	101.0	104.6	101.0	101.9	92.7	82.4	76.2	73.6	70.4	69.3	67.9
85°	53.7	53.0	51.7	48.2	41.9	40.5	39.8	39.1	37.7	38.4	37.0
87.5°	18.9	17.7	15.7	15.2	15.2	15.0	15.7	16.0	16.3	15.6	16.8
90°	2.3	4.7	5.6	6.4	6.4	11.0	11.0	12.6	14.2	13.4	14.2
92.5°	13.1	20.5	30.2	41.7	58.1	98.3	159.5	219.2	250.4	208.6	155.1
95°	28.4	36.4	46.6	65.5	98.7	167.4	296.9	485.6	643.6	661.8	585.1
97.5°	46.8	53.5	63.0	79.3	107.0	160.0	266.9	454.5	677.8	831.3	864.4
100°	60.0	65.5	75.0	90.0	115.3	161.9	251.2	412.2	634.9	837.0	952.3
102.5°	73.9	78.8	87.7	102.0	126.0	168.1	246.7	383.7	581.2	789.6	947.9
105°	94.7	98.7	108.2	122.4	145.3	183.2	248.7	359.3	518.0	703.6	884.4
107.5°	115.7	119.7	129.8	143.4	166.0	200.8	260.4	354.9	482.6	634.1	794.3
110°	130.3	134.2	143.7	157.9	179.3	214.0	269.2	356.1	470.6	599.4	739.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	144.2	148.8	157.6	171.8	193.2	226.6	278.7	359.9	464.9	579.8	700.1
115°	165.0	170.6	178.4	193.5	214.8	246.4	293.8	367.2	461.9	561.4	660.1
117.5°	185.7	190.7	199.3	213.4	235.5	265.5	309.0	375.0	461.1	553.2	640.6
120°	198.9	204.5	213.2	226.6	248.7	278.7	319.8	380.6	461.1	548.8	631.7
122.5°	211.7	217.1	225.2	239.8	261.4	291.3	329.9	386.3	460.5	543.7	624.1
125°	229.7	234.5	243.2	258.2	280.3	308.7	345.1	394.9	459.6	535.3	611.2
127.5°	243.9	249.5	259.4	275.1	297.4	324.9	358.2	401.6	457.9	524.1	595.4
130°	252.7	259.0	270.8	285.9	308.7	335.6	366.4	406.7	457.2	517.3	582.8
132.5°	260.2	268.5	279.7	296.0	317.6	344.5	374.6	411.1	456.6	510.9	569.5
135°	272.5	280.3	293.8	310.3	330.8	356.9	385.4	417.7	455.7	501.4	551.2
137.5°	283.8	292.5	305.3	322.4	342.0	366.4	392.9	421.6	455.4	493.2	534.6
140°	291.3	300.0	313.5	330.0	349.0	372.7	398.0	424.9	454.8	488.8	525.1
142.5°	300.2	308.3	321.0	337.0	355.4	378.4	401.7	427.4	454.8	485.0	516.2
145°	312.7	320.6	331.6	346.7	364.1	384.6	405.9	428.8	453.2	478.5	503.8
147.5°	325.2	332.1	343.5	356.0	371.6	390.9	409.5	429.6	450.4	472.7	493.5
150°	334.1	340.3	349.8	361.6	376.7	394.0	411.4	429.6	448.5	468.3	487.2
152.5°	341.6	347.9	356.8	367.4	381.1	396.6	412.6	428.3	445.4	463.2	480.3
155°	353.8	358.5	366.4	375.1	386.9	400.3	413.7	426.4	440.6	455.7	469.8
157.5°	364.2	368.6	374.8	382.3	391.6	403.0	413.7	424.3	435.8	447.9	458.6
160°	371.1	374.3	379.8	386.2	394.9	404.2	413.7	422.4	431.9	442.2	451.7
162.5°	376.8	379.3	384.3	389.9	396.7	405.6	413.7	420.6	428.2	437.2	444.7
165°	384.6	386.2	390.1	394.0	398.8	405.9	412.2	417.0	422.4	428.8	435.0
167.5°	390.9	391.6	394.7	396.9	400.5	405.8	410.3	413.1	416.8	421.2	425.8
170°	394.0	394.9	397.2	398.8	401.1	405.1	409.0	410.6	412.9	416.2	420.1
172.5°	397.2	397.4	399.1	400.0	401.7	404.5	407.8	408.1	409.2	411.7	415.1
175°	400.3	400.3	401.1	401.9	401.9	403.5	405.9	405.1	405.1	406.7	408.3
177.5°	401.9	401.3	401.9	401.9	401.9	402.5	403.8	402.5	402.5	403.1	403.8
180°	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1817.7	1819.9	1821.6	1827.1	1827.7	1832.7	1827.7
5°	1968.0	1977.8	1993.2	2008.5	2009.9	2019.6	2002.3
7.5°	2136.7	2159.3	2173.4	2198.3	2208.1	2214.1	2204.1
10°	2252.8	2273.8	2310.8	2329.0	2347.1	2349.9	2341.5
12.5°	2365.1	2398.3	2427.5	2461.8	2461.0	2485.6	2476.7
15°	2514.7	2548.9	2589.3	2627.8	2641.7	2641.7	2652.9
17.5°	2621.3	2684.0	2725.9	2756.0	2789.0	2794.7	2790.9
20°	2693.4	2761.1	2805.8	2844.9	2867.2	2873.5	2873.5
22.5°	2746.9	2804.6	2848.2	2883.4	2901.8	2909.2	2907.0
25°	2784.1	2833.7	2860.2	2870.6	2875.6	2874.2	2860.9
27.5°	2733.3	2731.1	2714.3	2682.2	2658.1	2643.4	2626.7
30°	2636.2	2599.8	2557.9	2511.8	2452.6	2407.1	2393.2
32.5°	2491.4	2409.9	2338.9	2262.2	2198.4	2153.0	2134.0
35°	2211.7	2082.5	1977.1	1884.9	1818.0	1776.0	1762.1
37.5°	1879.7	1754.6	1624.2	1534.8	1479.1	1436.8	1421.1
40°	1668.5	1532.4	1418.6	1334.8	1277.6	1236.4	1235.7
42.5°	1475.8	1345.8	1238.8	1178.4	1116.7	1089.4	1089.3
45°	1208.4	1104.4	1013.7	966.2	929.2	906.9	900.6
47.5°	1000.6	914.5	854.0	816.3	786.1	771.8	762.7
50°	883.8	808.4	760.2	727.4	710.6	692.6	691.2
52.5°	786.7	725.8	688.2	661.6	640.4	629.4	629.8
55°	661.2	613.0	586.4	566.1	549.5	541.1	537.6
57.5°	556.9	520.8	501.5	482.9	475.8	469.3	467.5
60°	492.2	467.8	449.6	434.9	424.4	422.3	421.6
62.5°	438.6	413.0	400.4	389.1	381.4	378.2	377.0
65°	361.6	342.7	331.6	322.6	319.7	314.9	314.2
67.5°	291.5	280.2	272.9	266.5	262.8	262.5	262.5
70°	248.5	242.3	236.0	232.5	230.4	228.9	228.9
72.5°	211.7	207.0	201.9	200.1	199.7	198.2	197.7
75°	161.3	156.4	157.0	153.6	150.8	147.3	145.2
77.5°	114.3	110.9	110.2	109.8	107.3	106.9	108.1
80°	88.7	85.1	84.4	85.1	84.4	82.4	82.4
82.5°	67.5	64.5	63.8	63.4	62.7	63.4	62.3
85°	36.3	34.9	34.9	34.9	36.3	35.6	34.9
87.5°	15.9	15.5	16.0	15.7	15.8	15.0	15.7
90°	15.0	15.8	15.8	16.6	17.4	16.6	16.6
92.5°	116.7	92.9	77.1	67.8	63.5	60.8	60.8
95°	462.7	356.9	280.3	241.7	217.1	203.0	192.7
97.5°	819.0	741.7	659.3	602.7	555.1	531.4	515.0
100°	968.1	929.4	871.0	802.2	754.1	730.4	724.1
102.5°	1026.2	1037.4	1013.1	971.0	936.0	911.1	906.1
105°	1021.0	1099.1	1131.6	1133.2	1126.8	1115.8	1111.1
107.5°	939.7	1049.8	1120.1	1159.2	1177.2	1185.1	1187.1
110°	876.5	991.0	1077.8	1133.9	1167.1	1181.3	1188.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	820.9	929.1	1015.9	1079.5	1119.7	1139.6	1151.1
115°	757.3	849.6	925.4	987.8	1035.2	1060.5	1066.8
117.5°	720.9	793.6	857.9	911.1	950.9	976.4	981.4
120°	705.2	768.3	824.4	869.4	904.1	924.6	933.3
122.5°	695.0	752.6	801.6	839.7	869.4	886.8	895.4
125°	679.1	733.6	777.0	808.6	831.5	846.5	851.2
127.5°	660.2	714.6	755.9	787.6	808.0	820.6	825.4
130°	645.1	698.8	740.6	773.1	792.8	805.5	810.2
132.5°	628.0	680.5	722.4	754.1	776.4	788.4	793.1
135°	602.5	650.7	690.1	721.8	743.9	756.5	761.2
137.5°	578.0	618.6	654.3	683.8	705.6	716.0	721.8
140°	562.2	597.7	631.0	658.5	675.9	687.0	693.3
142.5°	549.0	579.5	608.1	632.7	648.7	658.5	663.0
145°	530.7	554.3	576.4	596.2	609.6	617.5	621.5
147.5°	514.8	533.8	551.2	565.7	577.2	583.2	584.6
150°	505.3	521.2	535.3	548.1	558.3	563.0	563.8
152.5°	495.8	510.4	522.1	532.8	541.2	544.0	544.8
155°	482.5	494.3	503.8	511.7	518.0	520.4	520.4
157.5°	469.2	479.2	486.8	492.7	497.5	498.9	498.9
160°	460.4	469.1	475.3	480.1	484.8	485.6	485.6
162.5°	452.1	459.0	464.6	468.1	472.8	473.6	473.0
165°	439.8	445.4	449.3	452.4	455.7	454.8	454.0
167.5°	429.4	433.8	436.2	437.8	439.8	439.7	439.0
170°	422.4	425.7	428.0	429.6	430.3	429.6	429.6
172.5°	416.8	418.7	420.4	421.3	422.1	421.3	420.1
175°	409.0	410.6	410.6	410.6	412.2	410.6	409.0
177.5°	404.5	404.5	405.1	404.5	405.1	403.8	402.5
180°	401.9	401.9	401.9	401.9	401.9	401.9	401.9

(END OF REPORT)