

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: P332999-940

Luminaire Tested: **SA4XXRDIP-C1195D810U940-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332999-940
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-C1195D810U940-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 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: 7049.8 lumens
Efficiency: N/A
Efficacy: 116.1 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: Semi-Direct

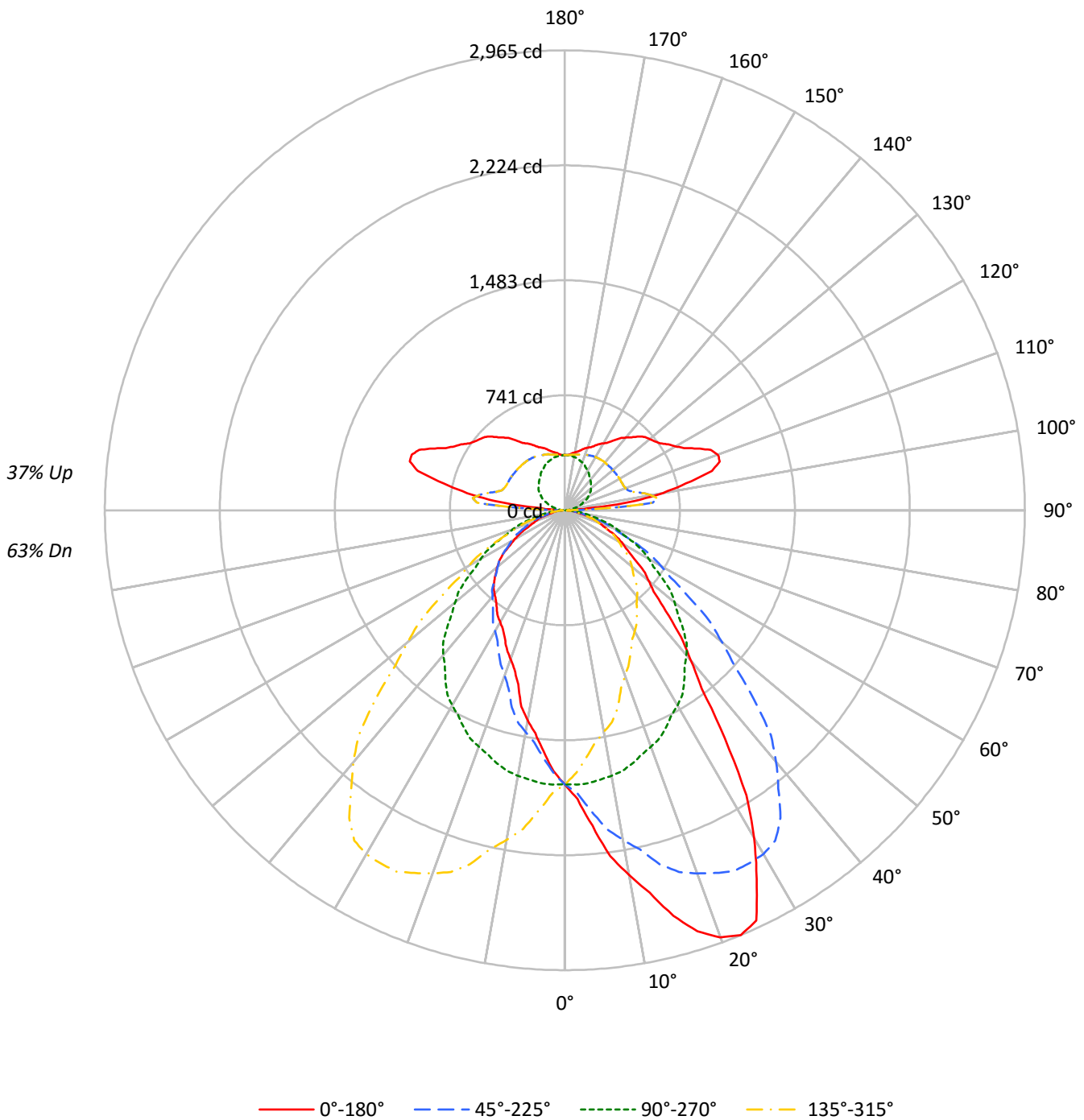
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	110	110	110	104	104	104	104	91	91	91	79	79	79	68	68	68	63				63
1	101	97	93	90	95	91	88	85	81	78	76	71	69	67	61	60	59	55				55
2	93	86	80	75	87	81	75	71	71	67	64	63	60	57	55	53	51	47				47
3	85	76	69	63	80	71	65	60	63	58	54	56	52	49	49	46	44	40				40
4	78	67	60	54	73	64	57	51	57	51	47	50	46	42	44	41	38	35				35
5	72	60	52	46	67	57	50	44	51	45	41	45	41	37	40	36	33	31				31
6	66	54	46	41	62	52	44	39	46	40	36	41	36	33	36	33	30	27				27
7	62	49	41	36	58	47	40	34	42	36	32	38	33	29	33	30	27	24				24
8	57	45	37	32	54	43	36	31	38	33	28	35	30	26	31	27	24	22				22
9	53	41	34	29	50	39	32	28	35	30	26	32	27	24	28	25	22	20				20
10	50	38	31	26	47	36	29	25	33	27	23	29	25	21	26	23	20	18				18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14266	14266	14266	14266
5°	16546	14309	12647	14309
10°	19575	14246	11287	14246
15°	22612	14114	9699	14114
20°	25175	13933	8771	13933
25°	25989	13755	8143	13755
30°	22750	13539	7764	13539
35°	17710	13219	7535	13219
40°	13281	12853	7413	12853
45°	10485	12265	7348	12265
50°	8852	11588	7135	11588
55°	7716	10842	6753	10842
60°	6943	10070	5977	10070
65°	6120	9234	5140	9234
70°	5511	8368	4638	8368
75°	4619	7417	3952	7417
80°	3905	6323	3705	6323
85°	3298	4946	3298	4946



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	2.4
10°-20°	516.5	7.3
20°-30°	807.8	11.5
30°-40°	898.0	12.7
40°-50°	796.7	11.3
50°-60°	620.8	8.8
60°-70°	406.5	5.8
70°-80°	199.9	2.8
80°-90°	51.3	0.7
90°-100°	256.3	3.6
100°-110°	533.5	7.6
110°-120°	477.9	6.8
120°-130°	402.0	5.7
130°-140°	335.1	4.8
140°-150°	256.1	3.6
150°-160°	180.0	2.6
160°-170°	105.9	1.5
170°-180°	34.4	0.5
0°-30°	1495.5	21.2
0°-40°	2393.5	34.0
0°-60°	3811.0	54.1
0°-90°	4468.7	63.4
90°-120°	1267.7	18.0
90°-150°	2260.9	32.1
90°-180°	2581.0	36.6
0°-180°	7049.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1767	1767	1767	1767	1767	
5°	2042	1766	1561	1766	2042	207
15°	2706	1689	1160	1689	2706	769
25°	2918	1544	914	1544	2918	1294
35°	1797	1341	765	1341	1797	1126
45°	918	1074	644	1074	918	727
55°	548	770	480	770	548	499
65°	320	483	269	483	320	322
75°	148	238	127	238	148	163
85°	36	53	36	53	36	40
90°	15	1	15	1	15	13
95°	170	23	170	23	170	264
105°	981	82	981	82	981	970
115°	942	144	942	144	942	935
125°	752	200	752	200	752	683
135°	672	238	672	238	672	519
145°	549	274	549	274	549	348
155°	460	312	460	312	460	214
165°	401	340	401	340	401	115
175°	361	354	361	354	361	35
180°	355	355	355	355	355	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1
2.5°	1863.9	1869.0	1863.9	1863.3	1857.6	1855.9	1853.6	1846.2	1832.6	1824.6	1826.3
5°	2041.8	2059.7	2049.7	2048.3	2032.7	2017.0	2007.0	1984.2	1960.0	1943.7	1930.1
7.5°	2247.7	2258.0	2251.7	2241.8	2216.4	2202.1	2179.0	2148.9	2105.5	2072.3	2042.0
10°	2387.9	2396.4	2393.6	2375.1	2356.5	2318.8	2297.5	2255.5	2200.7	2157.2	2116.7
12.5°	2525.7	2534.9	2509.8	2510.6	2475.6	2445.9	2412.0	2359.1	2295.8	2239.8	2189.0
15°	2705.5	2694.0	2694.0	2679.8	2640.6	2599.3	2564.5	2508.9	2429.2	2362.2	2291.8
17.5°	2846.1	2850.1	2844.2	2810.7	2779.9	2737.2	2673.3	2608.4	2534.4	2444.5	2372.5
20°	2930.4	2930.4	2924.0	2901.2	2861.3	2815.8	2746.7	2676.2	2582.2	2491.8	2410.7
22.5°	2964.6	2966.8	2959.3	2940.5	2904.7	2860.2	2801.4	2729.8	2633.0	2531.1	2430.6
25°	2917.6	2931.1	2932.5	2927.6	2916.9	2889.8	2839.3	2765.9	2679.1	2568.8	2460.5
27.5°	2678.6	2695.7	2710.7	2735.3	2768.0	2785.2	2787.4	2750.1	2674.3	2568.1	2459.2
30°	2440.5	2454.8	2501.1	2561.6	2608.6	2651.3	2688.3	2698.3	2655.6	2560.2	2445.5
32.5°	2176.3	2195.7	2241.9	2307.0	2385.3	2457.6	2540.8	2583.2	2582.1	2524.9	2418.8
35°	1797.0	1811.2	1854.0	1922.3	2016.2	2123.8	2255.5	2358.0	2427.8	2422.8	2358.0
37.5°	1449.2	1465.3	1508.5	1565.1	1656.3	1789.4	1916.8	2058.1	2187.1	2259.6	2237.9
40°	1260.2	1260.9	1302.9	1361.3	1446.7	1562.7	1701.6	1858.1	2002.0	2119.5	2142.2
42.5°	1110.9	1111.1	1138.8	1201.8	1263.3	1372.5	1505.0	1660.5	1828.9	1964.5	2024.9
45°	918.4	924.8	947.6	985.3	1033.8	1126.3	1232.3	1376.9	1565.6	1726.4	1826.8
47.5°	777.8	787.1	801.6	832.4	871.0	932.6	1020.4	1150.2	1303.7	1480.7	1623.5
50°	704.8	706.2	724.8	741.8	775.3	824.5	901.3	1009.5	1150.5	1320.6	1479.4
52.5°	642.2	641.9	653.0	674.7	701.9	740.1	802.2	900.7	1025.7	1178.3	1342.2
55°	548.2	551.8	560.3	577.4	598.1	625.1	674.2	748.2	846.5	976.8	1125.6
57.5°	476.7	478.6	485.3	492.5	511.5	531.1	568.0	619.4	702.3	809.0	947.6
60°	430.0	430.7	432.8	443.5	458.5	477.0	501.9	545.4	615.1	712.7	822.3
62.5°	384.4	385.8	389.1	396.8	408.4	421.2	447.3	482.1	539.9	623.2	722.0
65°	320.4	321.1	326.1	329.0	338.1	349.6	368.8	392.3	432.1	501.9	576.7
67.5°	267.7	267.7	268.0	271.8	278.2	285.8	297.3	316.1	346.2	389.1	455.0
70°	233.5	233.5	235.0	237.1	240.7	247.0	253.4	267.7	289.8	324.7	375.2
72.5°	201.6	202.2	203.6	204.0	205.9	211.2	215.9	225.0	241.4	267.7	308.5
75°	148.1	150.3	153.8	156.7	160.2	159.4	164.4	170.1	175.1	190.8	214.3
77.5°	110.2	109.1	109.5	111.9	112.4	113.1	116.6	121.0	124.8	132.2	140.5
80°	84.0	84.0	86.1	86.9	86.1	86.9	90.4	92.6	94.0	96.8	104.7
82.5°	63.5	64.6	63.9	64.6	65.1	65.8	68.8	69.2	70.6	71.8	75.1
85°	35.6	36.3	37.0	35.6	35.6	35.6	37.0	37.7	39.1	38.4	39.9
87.5°	15.4	14.9	15.6	15.4	15.9	15.3	15.8	16.8	15.4	16.1	15.9
90°	14.6	14.6	15.3	14.6	13.9	13.9	13.3	12.6	11.9	12.6	11.1
92.5°	53.7	53.7	56.1	59.8	68.0	82.0	103.1	137.0	184.2	221.1	193.6
95°	170.1	179.2	191.7	213.4	247.5	315.1	408.6	516.7	584.3	568.3	428.8
97.5°	454.8	469.2	490.2	532.2	582.2	655.0	723.2	763.3	734.1	598.5	401.4
100°	639.4	645.0	665.8	708.4	769.1	820.6	854.8	840.9	739.0	560.6	364.0
102.5°	800.0	804.5	826.5	857.4	894.6	916.1	906.2	837.0	697.2	513.2	338.9
105°	981.1	985.3	995.0	1000.6	999.2	970.5	901.5	781.0	621.3	457.4	317.3
107.5°	1048.2	1046.4	1039.5	1023.6	989.1	926.9	829.7	701.3	559.9	426.1	313.3
110°	1049.4	1043.1	1030.6	1001.2	951.7	875.0	773.9	653.4	529.2	415.5	314.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1016.5	1006.3	988.7	953.2	897.1	820.4	724.9	618.2	511.9	410.5	317.8
115°	942.0	936.4	914.1	872.3	817.2	750.2	668.7	582.9	495.7	407.9	324.2
117.5°	866.6	862.2	839.6	804.5	757.5	700.7	636.6	565.6	488.5	407.2	331.1
120°	824.1	816.5	798.3	767.7	727.9	678.4	622.7	557.8	484.6	407.2	336.1
122.5°	790.7	783.0	767.7	741.5	707.8	664.5	613.7	551.1	480.1	406.6	341.1
125°	751.6	747.4	734.2	714.0	686.1	647.7	599.7	539.7	472.7	405.8	348.7
127.5°	728.8	724.6	713.5	695.4	667.4	631.0	583.0	525.8	462.8	404.3	354.6
130°	715.4	711.2	700.1	682.6	654.0	617.1	569.6	514.6	456.7	403.7	359.1
132.5°	700.3	696.2	685.5	665.8	637.8	600.9	554.6	502.8	451.1	403.1	363.0
135°	672.2	668.0	656.8	637.3	609.4	574.5	532.0	486.7	442.7	402.3	368.8
137.5°	637.3	632.2	623.0	603.8	577.7	546.3	510.4	472.1	435.5	402.2	372.3
140°	612.2	606.6	596.8	581.5	557.1	527.8	496.4	463.7	431.6	401.6	375.1
142.5°	585.4	581.5	572.8	558.7	537.0	511.7	484.7	455.8	428.3	401.6	377.4
145°	548.8	545.3	538.2	526.5	509.0	489.5	468.6	444.9	422.5	400.2	378.6
147.5°	516.2	515.0	509.7	499.5	486.7	471.4	454.6	435.8	417.4	397.7	379.3
150°	497.8	497.1	492.9	483.9	472.7	460.2	446.2	430.2	413.5	396.0	379.3
152.5°	481.1	480.4	477.9	470.5	461.0	450.7	437.8	424.1	409.0	393.2	378.2
155°	459.5	459.5	457.4	451.8	444.9	436.5	426.1	414.8	402.3	389.1	376.5
157.5°	440.5	440.5	439.3	435.1	429.8	423.1	414.3	404.9	395.5	384.8	374.7
160°	428.8	428.8	428.1	423.9	419.7	414.2	406.5	398.9	390.5	381.4	373.0
162.5°	417.7	418.2	417.5	413.3	410.3	405.3	399.2	392.7	386.0	378.1	371.4
165°	400.9	401.6	402.3	399.5	396.7	393.2	388.3	384.1	378.6	373.0	368.2
167.5°	387.6	388.3	388.3	386.6	385.1	383.1	379.2	375.9	371.9	368.0	364.8
170°	379.3	379.3	380.0	379.3	377.9	375.9	373.0	371.0	367.5	364.6	362.6
172.5°	371.0	372.0	372.7	372.0	371.2	369.7	368.0	366.5	363.6	361.3	360.3
175°	361.1	362.6	364.0	362.6	362.6	362.6	361.1	360.5	359.1	357.7	357.7
177.5°	355.4	356.6	357.7	357.1	357.7	357.1	357.1	356.6	356.0	355.4	355.4
180°	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1
2.5°	1820.6	1812.7	1808.7	1799.6	1788.7	1783.0	1777.9	1770.5	1760.8	1750.5	1743.1
5°	1913.0	1896.0	1874.6	1849.0	1826.1	1804.1	1784.8	1765.7	1743.6	1720.8	1698.0
7.5°	2007.9	1974.2	1938.0	1896.0	1855.0	1817.9	1783.7	1751.0	1714.0	1680.8	1650.6
10°	2073.9	2028.4	1977.8	1924.4	1871.0	1824.7	1779.1	1737.9	1692.3	1651.7	1617.6
12.5°	2127.4	2073.9	2013.1	1946.6	1882.4	1826.4	1774.1	1720.2	1668.4	1624.4	1578.9
15°	2216.3	2143.0	2061.1	1981.4	1898.1	1821.9	1751.4	1688.7	1629.7	1567.7	1524.3
17.5°	2277.4	2190.4	2090.9	1995.0	1896.7	1806.8	1725.5	1650.9	1582.7	1519.5	1467.8
20°	2313.8	2217.7	2107.4	1998.4	1888.1	1792.0	1704.4	1621.8	1551.3	1483.0	1429.6
22.5°	2334.3	2227.9	2107.4	1993.3	1879.0	1774.9	1678.7	1592.8	1516.0	1447.7	1388.6
25°	2340.9	2227.0	2103.8	1972.8	1847.5	1737.1	1637.4	1544.2	1458.7	1390.4	1327.8
27.5°	2331.8	2197.6	2071.5	1937.1	1807.8	1691.5	1586.8	1488.8	1403.3	1329.9	1265.7
30°	2318.1	2174.3	2039.0	1899.5	1768.4	1656.7	1546.3	1452.4	1363.4	1287.2	1222.4
32.5°	2288.5	2145.8	2000.3	1857.3	1724.7	1609.4	1504.8	1410.2	1322.9	1245.1	1176.3
35°	2229.8	2085.3	1927.3	1780.6	1650.3	1530.7	1432.4	1341.3	1258.0	1174.7	1102.1
37.5°	2152.5	2004.8	1847.6	1687.0	1556.6	1443.7	1353.5	1268.0	1186.7	1110.6	1030.2
40°	2079.6	1945.1	1782.7	1623.3	1489.4	1380.5	1297.2	1219.6	1137.7	1062.2	981.8
42.5°	1991.4	1876.7	1712.7	1552.6	1420.5	1315.5	1238.0	1162.1	1087.6	1014.4	930.5
45°	1844.0	1757.1	1603.3	1449.6	1316.4	1212.5	1141.3	1074.3	1008.8	939.1	860.1
47.5°	1675.1	1616.2	1483.5	1326.1	1202.9	1109.4	1040.6	985.9	930.5	860.8	791.4
50°	1557.7	1520.0	1391.9	1248.0	1130.6	1044.5	973.9	922.7	876.4	809.5	747.5
52.5°	1432.4	1412.4	1304.1	1166.6	1053.1	968.7	908.5	862.3	815.5	759.9	702.0
55°	1241.6	1252.3	1160.5	1041.6	934.8	863.6	808.8	770.3	730.5	683.5	638.6
57.5°	1046.6	1085.6	1024.0	919.5	819.5	753.7	712.4	680.0	646.6	607.6	569.3
60°	929.8	962.5	927.6	835.8	748.2	687.1	648.6	623.7	590.2	554.6	525.4
62.5°	815.9	851.0	830.3	756.1	674.8	622.1	588.2	565.0	540.1	509.1	478.8
65°	672.8	695.5	685.6	634.4	576.7	531.8	500.5	483.4	460.7	437.8	410.8
67.5°	515.3	559.3	553.5	526.3	476.4	441.4	420.9	405.8	385.0	368.1	349.7
70°	423.7	464.2	463.5	441.4	414.4	381.6	367.4	354.5	336.0	319.7	304.7
72.5°	346.7	383.9	389.4	372.5	354.0	329.2	315.6	306.7	288.7	277.5	265.4
75°	242.8	269.8	277.0	277.0	268.4	255.6	243.5	237.8	225.0	215.0	207.9
77.5°	159.2	176.3	187.3	189.9	191.3	187.0	177.0	173.0	163.2	159.6	152.8
80°	112.4	123.9	136.7	141.0	144.5	143.1	138.8	136.0	126.7	123.1	120.3
82.5°	77.8	84.0	94.5	104.0	102.9	106.6	102.9	100.7	93.7	92.4	89.5
85°	40.6	41.3	42.7	49.1	52.7	54.1	54.8	53.4	51.3	51.3	46.3
87.5°	15.6	15.1	15.3	15.3	15.8	17.9	19.2	19.5	18.1	16.8	15.2
90°	9.7	9.7	5.6	5.6	4.9	4.2	2.1	0.7	2.1	4.2	4.9
92.5°	140.8	86.8	51.3	36.8	26.7	18.1	11.6	7.9	11.6	18.1	26.7
95°	262.2	147.8	87.1	57.9	41.1	32.1	25.1	23.0	25.1	32.1	41.1
97.5°	235.7	141.2	94.5	70.0	55.6	47.3	41.3	41.3	41.3	47.3	55.6
100°	221.8	142.9	101.8	79.5	66.3	57.9	53.0	53.0	53.0	57.9	66.3
102.5°	217.8	148.5	111.3	90.1	77.4	69.6	65.3	64.1	65.3	69.6	77.4
105°	219.6	161.8	128.3	108.1	95.5	87.1	83.6	81.6	83.6	87.1	95.5
107.5°	230.0	177.3	146.6	126.6	114.6	105.7	102.2	100.9	102.2	105.7	114.6
110°	237.7	189.0	158.3	139.5	126.9	118.5	115.0	113.7	115.0	118.5	126.9



TEST NUMBER: P332999-940

CATALOG NUMBER: SA4XXRDIP-C1195D810U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	246.1	200.1	170.6	151.7	139.2	131.3	127.3	125.9	127.3	131.3	139.2
115°	259.4	217.6	189.7	170.9	157.6	150.6	145.7	143.7	145.7	150.6	157.6
117.5°	272.9	234.4	207.9	188.4	176.0	168.4	164.0	162.0	164.0	168.4	176.0
120°	282.4	246.1	219.6	200.1	188.2	180.6	175.7	174.3	175.7	180.6	188.2
122.5°	291.3	257.3	230.8	211.8	198.9	191.7	186.9	185.5	186.9	191.7	198.9
125°	304.7	272.6	247.5	228.0	214.7	207.1	202.9	200.1	202.9	207.1	214.7
127.5°	316.3	286.9	262.6	242.9	229.1	220.3	215.3	213.1	215.3	220.3	229.1
130°	323.5	296.3	272.6	252.4	239.2	228.7	223.1	220.3	223.1	228.7	239.2
132.5°	330.7	304.2	280.4	261.4	247.0	237.1	229.8	227.6	229.8	237.1	247.0
135°	340.3	315.1	292.1	274.0	259.4	247.5	240.6	237.7	240.6	247.5	259.4
137.5°	347.0	323.5	302.0	284.7	269.6	258.2	250.6	248.0	250.6	258.2	269.6
140°	351.4	329.1	308.2	291.4	276.8	264.9	257.3	255.2	257.3	264.9	276.8
142.5°	354.7	334.1	313.8	297.6	283.5	272.2	265.1	263.0	265.1	272.2	283.5
145°	358.4	339.6	321.5	306.1	292.8	283.1	276.1	274.0	276.1	283.1	292.8
147.5°	361.6	345.2	328.1	314.3	303.3	293.3	287.1	286.4	287.1	293.3	303.3
150°	363.3	347.9	332.6	319.3	308.9	300.5	295.0	294.3	295.0	300.5	308.9
152.5°	364.4	350.2	336.5	324.4	315.0	307.2	301.7	301.5	301.7	307.2	315.0
155°	365.3	353.5	341.6	331.2	323.5	316.6	312.4	311.7	312.4	316.6	323.5
157.5°	365.3	355.9	345.8	337.6	330.9	325.5	321.6	321.6	321.6	325.5	330.9
160°	365.3	357.0	348.7	341.0	335.4	330.5	327.7	327.7	327.7	330.5	335.4
162.5°	365.3	358.1	350.3	344.3	339.3	334.9	332.7	333.3	332.7	334.9	339.3
165°	364.0	358.4	352.1	347.9	344.5	341.0	339.6	339.6	339.6	341.0	344.5
167.5°	362.3	358.3	353.7	350.4	348.5	345.8	345.2	345.8	345.2	345.8	348.5
170°	361.1	357.7	354.2	352.1	350.7	348.7	347.9	348.7	347.9	348.7	350.7
172.5°	360.1	357.1	354.7	353.2	352.4	350.9	350.7	351.4	350.7	350.9	352.4
175°	358.4	356.3	354.9	354.9	354.2	353.5	353.5	354.2	353.5	353.5	354.2
177.5°	356.6	355.4	354.9	354.9	354.9	354.4	354.9	355.4	354.9	354.4	354.9
180°	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9



TEST NUMBER: P332999-940

CATALOG NUMBER: SA4XXRDIP-C1195D810U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1
2.5°	1735.2	1729.5	1722.1	1713.5	1703.3	1694.2	1690.1	1693.6	1695.3	1690.8	1690.1
5°	1682.3	1664.6	1650.3	1629.0	1611.9	1597.6	1587.7	1583.4	1584.8	1573.4	1570.6
7.5°	1623.0	1601.9	1578.5	1553.2	1529.6	1508.6	1497.6	1491.7	1479.6	1474.4	1465.8
10°	1584.8	1556.3	1533.6	1503.6	1476.6	1451.7	1439.6	1429.6	1417.5	1411.8	1399.7
12.5°	1545.5	1512.4	1487.4	1456.3	1428.7	1398.7	1387.1	1368.7	1349.7	1337.7	1322.2
15°	1490.1	1450.3	1419.6	1382.6	1349.9	1315.7	1285.0	1250.9	1238.1	1211.0	1195.3
17.5°	1425.3	1384.9	1347.0	1297.4	1246.8	1204.3	1171.7	1139.0	1119.4	1102.1	1094.1
20°	1382.6	1345.6	1292.9	1235.2	1179.0	1132.0	1105.6	1084.3	1062.9	1050.9	1042.3
22.5°	1342.2	1294.9	1233.7	1171.4	1115.2	1078.4	1056.1	1034.2	1016.8	1005.3	993.9
25°	1274.4	1212.5	1147.6	1076.5	1038.0	1006.0	981.8	963.9	953.3	938.3	932.6
27.5°	1204.8	1129.7	1058.3	1010.4	970.4	941.0	920.0	906.6	893.0	883.5	876.1
30°	1151.2	1075.0	1010.9	965.4	924.8	900.6	883.5	867.9	857.2	849.4	843.6
32.5°	1098.2	1022.1	968.2	919.3	887.3	863.6	845.3	833.7	825.3	815.2	811.7
35°	1021.6	954.0	907.0	862.9	830.1	808.8	794.5	782.5	775.3	772.5	770.3
37.5°	948.1	892.6	842.1	805.9	776.8	759.9	743.2	737.2	732.3	727.2	729.5
40°	901.3	849.4	804.5	766.1	742.5	724.1	714.1	706.9	702.7	702.7	702.7
42.5°	860.9	810.0	766.3	731.9	708.4	692.8	681.6	675.6	674.2	673.7	677.1
45°	798.1	751.1	706.9	678.5	658.5	642.9	636.5	631.5	631.5	634.4	635.1
47.5°	735.8	691.9	656.4	624.6	606.3	596.5	590.9	588.4	588.6	591.5	594.8
50°	697.7	654.2	619.4	590.9	573.8	564.5	559.5	558.2	559.5	559.5	564.5
52.5°	656.1	617.2	582.9	559.0	539.7	531.0	528.2	526.3	527.1	529.4	531.5
55°	595.2	560.3	527.5	504.8	490.5	484.8	478.4	479.1	477.7	479.1	479.1
57.5°	534.1	502.7	472.3	454.2	441.7	433.5	426.4	428.5	426.3	426.1	424.9
60°	494.8	460.7	436.4	420.1	405.8	398.7	392.3	393.7	391.6	390.1	387.3
62.5°	452.1	423.7	400.6	384.8	373.4	365.1	358.6	357.2	352.3	347.4	341.2
65°	390.1	366.7	346.0	331.1	320.4	314.0	309.0	304.7	294.0	282.7	277.0
67.5°	329.9	313.0	293.7	281.1	272.4	264.0	254.5	247.2	237.2	231.0	227.4
70°	291.1	274.8	258.4	246.3	237.1	229.3	218.6	213.6	206.4	203.6	200.1
72.5°	254.1	238.9	223.7	212.8	202.9	196.8	188.4	183.4	180.3	179.1	175.6
75°	198.0	185.8	174.4	164.4	156.7	152.4	148.8	145.3	143.8	137.4	133.8
77.5°	144.4	136.4	129.3	122.2	116.6	113.8	106.9	102.8	100.4	97.4	96.7
80°	112.4	106.8	99.7	95.4	87.6	84.7	81.9	81.1	80.4	79.7	79.0
82.5°	84.6	78.9	71.8	69.2	67.1	65.4	63.7	63.0	62.2	62.7	62.5
85°	42.7	39.9	39.9	39.1	38.4	37.7	37.0	37.0	36.3	37.0	36.3
87.5°	15.3	14.8	15.6	14.4	15.3	15.6	14.9	15.1	15.8	14.7	14.7
90°	5.6	5.6	9.7	9.7	11.1	12.6	11.9	12.6	13.3	13.9	13.9
92.5°	36.8	51.3	86.8	140.8	193.6	221.1	184.2	137.0	103.1	82.0	68.0
95°	57.9	87.1	147.8	262.2	428.8	568.3	584.3	516.7	408.6	315.1	247.5
97.5°	70.0	94.5	141.2	235.7	401.4	598.5	734.1	763.3	723.2	655.0	582.2
100°	79.5	101.8	142.9	221.8	364.0	560.6	739.0	840.9	854.8	820.6	769.1
102.5°	90.1	111.3	148.5	217.8	338.9	513.2	697.2	837.0	906.2	916.1	894.6
105°	108.1	128.3	161.8	219.6	317.3	457.4	621.3	781.0	901.5	970.5	999.2
107.5°	126.6	146.6	177.3	230.0	313.3	426.1	559.9	701.3	829.7	926.9	989.1
110°	139.5	158.3	189.0	237.7	314.4	415.5	529.2	653.4	773.9	875.0	951.7



TEST NUMBER: P332999-940

CATALOG NUMBER: SA4XXRDIP-C1195D810U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	151.7	170.6	200.1	246.1	317.8	410.5	511.9	618.2	724.9	820.4	897.1
115°	170.9	189.7	217.6	259.4	324.2	407.9	495.7	582.9	668.7	750.2	817.2
117.5°	188.4	207.9	234.4	272.9	331.1	407.2	488.5	565.6	636.6	700.7	757.5
120°	200.1	219.6	246.1	282.4	336.1	407.2	484.6	557.8	622.7	678.4	727.9
122.5°	211.8	230.8	257.3	291.3	341.1	406.6	480.1	551.1	613.7	664.5	707.8
125°	228.0	247.5	272.6	304.7	348.7	405.8	472.7	539.7	599.7	647.7	686.1
127.5°	242.9	262.6	286.9	316.3	354.6	404.3	462.8	525.8	583.0	631.0	667.4
130°	252.4	272.6	296.3	323.5	359.1	403.7	456.7	514.6	569.6	617.1	654.0
132.5°	261.4	280.4	304.2	330.7	363.0	403.1	451.1	502.8	554.6	600.9	637.8
135°	274.0	292.1	315.1	340.3	368.8	402.3	442.7	486.7	532.0	574.5	609.4
137.5°	284.7	302.0	323.5	347.0	372.3	402.2	435.5	472.1	510.4	546.3	577.7
140°	291.4	308.2	329.1	351.4	375.1	401.6	431.6	463.7	496.4	527.8	557.1
142.5°	297.6	313.8	334.1	354.7	377.4	401.6	428.3	455.8	484.7	511.7	537.0
145°	306.1	321.5	339.6	358.4	378.6	400.2	422.5	444.9	468.6	489.5	509.0
147.5°	314.3	328.1	345.2	361.6	379.3	397.7	417.4	435.8	454.6	471.4	486.7
150°	319.3	332.6	347.9	363.3	379.3	396.0	413.5	430.2	446.2	460.2	472.7
152.5°	324.4	336.5	350.2	364.4	378.2	393.2	409.0	424.1	437.8	450.7	461.0
155°	331.2	341.6	353.5	365.3	376.5	389.1	402.3	414.8	426.1	436.5	444.9
157.5°	337.6	345.8	355.9	365.3	374.7	384.8	395.5	404.9	414.3	423.1	429.8
160°	341.0	348.7	357.0	365.3	373.0	381.4	390.5	398.9	406.5	414.2	419.7
162.5°	344.3	350.3	358.1	365.3	371.4	378.1	386.0	392.7	399.2	405.3	410.3
165°	347.9	352.1	358.4	364.0	368.2	373.0	378.6	384.1	388.3	393.2	396.7
167.5°	350.4	353.7	358.3	362.3	364.8	368.0	371.9	375.9	379.2	383.1	385.1
170°	352.1	354.2	357.7	361.1	362.6	364.6	367.5	371.0	373.0	375.9	377.9
172.5°	353.2	354.7	357.1	360.1	360.3	361.3	363.6	366.5	368.0	369.7	371.2
175°	354.9	354.9	356.3	358.4	357.7	357.7	359.1	360.5	361.1	362.6	362.6
177.5°	354.9	354.9	355.4	356.6	355.4	355.4	356.0	356.6	357.1	357.1	357.7
180°	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9



TEST NUMBER: P332999-940

CATALOG NUMBER: SA4XXRDIP-C1195D810U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1
2.5°	1686.8	1687.9	1683.9	1682.7	1683.9	1687.9	1686.8	1690.1	1690.8	1695.3	1693.6
5°	1564.9	1563.4	1559.9	1560.6	1559.9	1563.4	1564.9	1570.6	1573.4	1584.8	1583.4
7.5°	1460.6	1455.1	1456.6	1451.0	1456.6	1455.1	1460.6	1465.8	1474.4	1479.6	1491.7
10°	1396.9	1389.0	1382.6	1376.9	1382.6	1389.0	1396.9	1399.7	1411.8	1417.5	1429.6
12.5°	1309.7	1303.0	1294.3	1296.0	1294.3	1303.0	1309.7	1322.2	1337.7	1349.7	1368.7
15°	1186.1	1175.5	1158.3	1160.5	1158.3	1175.5	1186.1	1195.3	1211.0	1238.1	1250.9
17.5°	1081.5	1081.6	1073.8	1075.6	1073.8	1081.6	1081.5	1094.1	1102.1	1119.4	1139.0
20°	1027.3	1022.3	1023.1	1020.9	1023.1	1022.3	1027.3	1042.3	1050.9	1062.9	1084.3
22.5°	989.7	983.6	978.7	974.2	978.7	983.6	989.7	993.9	1005.3	1016.8	1034.2
25°	926.2	921.9	915.6	914.2	915.6	921.9	926.2	932.6	938.3	953.3	963.9
27.5°	870.4	869.6	867.0	863.7	867.0	869.6	870.4	876.1	883.5	893.0	906.6
30°	837.9	836.5	835.1	832.9	835.1	836.5	837.9	843.6	849.4	857.2	867.9
32.5°	809.0	808.1	806.6	806.8	806.6	808.1	809.0	811.7	815.2	825.3	833.7
35°	767.5	766.8	765.4	764.6	765.4	766.8	767.5	770.3	772.5	775.3	782.5
37.5°	728.8	730.6	729.8	729.6	729.8	730.6	728.8	729.5	727.2	732.3	737.2
40°	702.0	702.7	704.1	703.4	704.1	702.7	702.0	702.7	702.7	702.7	706.9
42.5°	679.8	679.9	681.9	679.5	681.9	679.9	679.8	677.1	673.7	674.2	675.6
45°	640.1	644.4	643.6	643.6	643.6	644.4	640.1	635.1	634.4	631.5	631.5
47.5°	596.6	600.3	601.3	601.2	601.3	600.3	596.6	594.8	591.5	588.6	588.4
50°	568.1	566.7	568.8	568.1	568.8	566.7	568.1	564.5	559.5	559.5	558.2
52.5°	533.4	533.7	533.5	532.8	533.5	533.7	533.4	531.5	529.4	527.1	526.3
55°	479.8	480.5	479.1	479.8	479.1	480.5	479.8	479.1	479.1	477.7	479.1
57.5°	421.8	418.3	419.7	418.0	419.7	418.3	421.8	424.9	426.1	426.3	428.5
60°	380.2	374.5	373.1	370.2	373.1	374.5	380.2	387.3	390.1	391.6	393.7
62.5°	333.5	329.5	324.7	326.9	324.7	329.5	333.5	341.2	347.4	352.3	357.2
65°	271.3	268.4	266.3	269.1	266.3	268.4	271.3	277.0	282.7	294.0	304.7
67.5°	224.5	223.0	223.0	221.6	223.0	223.0	224.5	227.4	231.0	237.2	247.2
70°	200.1	198.0	198.0	196.5	198.0	198.0	200.1	200.1	203.6	206.4	213.6
72.5°	175.0	172.9	173.4	172.5	173.4	172.9	175.0	175.6	179.1	180.3	183.4
75°	129.6	126.0	126.0	126.7	126.0	126.0	129.6	133.8	137.4	143.8	145.3
77.5°	96.7	95.9	96.9	95.7	96.9	95.9	96.7	96.7	97.4	100.4	102.8
80°	79.0	78.3	77.6	79.7	77.6	78.3	79.0	79.0	79.7	80.4	81.1
82.5°	61.3	61.3	61.1	63.8	61.1	61.3	61.3	62.5	62.7	62.2	63.0
85°	37.0	35.6	37.0	35.6	37.0	35.6	37.0	36.3	37.0	36.3	37.0
87.5°	16.1	15.6	14.9	15.4	14.9	15.6	16.1	14.7	14.7	15.8	15.1
90°	14.6	15.3	14.6	14.6	14.6	15.3	14.6	13.9	13.9	13.3	12.6
92.5°	59.8	56.1	53.7	53.7	53.7	56.1	59.8	68.0	82.0	103.1	137.0
95°	213.4	191.7	179.2	170.1	179.2	191.7	213.4	247.5	315.1	408.6	516.7
97.5°	532.2	490.2	469.2	454.8	469.2	490.2	532.2	582.2	655.0	723.2	763.3
100°	708.4	665.8	645.0	639.4	645.0	665.8	708.4	769.1	820.6	854.8	840.9
102.5°	857.4	826.5	804.5	800.0	804.5	826.5	857.4	894.6	916.1	906.2	837.0
105°	1000.6	995.0	985.3	981.1	985.3	995.0	1000.6	999.2	970.5	901.5	781.0
107.5°	1023.6	1039.5	1046.4	1048.2	1046.4	1039.5	1023.6	989.1	926.9	829.7	701.3
110°	1001.2	1030.6	1043.1	1049.4	1043.1	1030.6	1001.2	951.7	875.0	773.9	653.4



TEST NUMBER: P332999-940

CATALOG NUMBER: SA4XXRDIP-C1195D810U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	953.2	988.7	1006.3	1016.5	1006.3	988.7	953.2	897.1	820.4	724.9	618.2
115°	872.3	914.1	936.4	942.0	936.4	914.1	872.3	817.2	750.2	668.7	582.9
117.5°	804.5	839.6	862.2	866.6	862.2	839.6	804.5	757.5	700.7	636.6	565.6
120°	767.7	798.3	816.5	824.1	816.5	798.3	767.7	727.9	678.4	622.7	557.8
122.5°	741.5	767.7	783.0	790.7	783.0	767.7	741.5	707.8	664.5	613.7	551.1
125°	714.0	734.2	747.4	751.6	747.4	734.2	714.0	686.1	647.7	599.7	539.7
127.5°	695.4	713.5	724.6	728.8	724.6	713.5	695.4	667.4	631.0	583.0	525.8
130°	682.6	700.1	711.2	715.4	711.2	700.1	682.6	654.0	617.1	569.6	514.6
132.5°	665.8	685.5	696.2	700.3	696.2	685.5	665.8	637.8	600.9	554.6	502.8
135°	637.3	656.8	668.0	672.2	668.0	656.8	637.3	609.4	574.5	532.0	486.7
137.5°	603.8	623.0	632.2	637.3	632.2	623.0	603.8	577.7	546.3	510.4	472.1
140°	581.5	596.8	606.6	612.2	606.6	596.8	581.5	557.1	527.8	496.4	463.7
142.5°	558.7	572.8	581.5	585.4	581.5	572.8	558.7	537.0	511.7	484.7	455.8
145°	526.5	538.2	545.3	548.8	545.3	538.2	526.5	509.0	489.5	468.6	444.9
147.5°	499.5	509.7	515.0	516.2	515.0	509.7	499.5	486.7	471.4	454.6	435.8
150°	483.9	492.9	497.1	497.8	497.1	492.9	483.9	472.7	460.2	446.2	430.2
152.5°	470.5	477.9	480.4	481.1	480.4	477.9	470.5	461.0	450.7	437.8	424.1
155°	451.8	457.4	459.5	459.5	459.5	457.4	451.8	444.9	436.5	426.1	414.8
157.5°	435.1	439.3	440.5	440.5	440.5	439.3	435.1	429.8	423.1	414.3	404.9
160°	423.9	428.1	428.8	428.8	428.8	428.1	423.9	419.7	414.2	406.5	398.9
162.5°	413.3	417.5	418.2	417.7	418.2	417.5	413.3	410.3	405.3	399.2	392.7
165°	399.5	402.3	401.6	400.9	401.6	402.3	399.5	396.7	393.2	388.3	384.1
167.5°	386.6	388.3	388.3	387.6	388.3	388.3	386.6	385.1	383.1	379.2	375.9
170°	379.3	380.0	379.3	379.3	379.3	380.0	379.3	377.9	375.9	373.0	371.0
172.5°	372.0	372.7	372.0	371.0	372.0	372.7	372.0	371.2	369.7	368.0	366.5
175°	362.6	364.0	362.6	361.1	362.6	364.0	362.6	362.6	362.6	361.1	360.5
177.5°	357.1	357.7	356.6	355.4	356.6	357.7	357.1	357.7	357.1	357.1	356.6
180°	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9



TEST NUMBER: P332999-940

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1
2.5°	1690.1	1694.2	1703.3	1713.5	1722.1	1729.5	1735.2	1743.1	1750.5	1760.8	1770.5
5°	1587.7	1597.6	1611.9	1629.0	1650.3	1664.6	1682.3	1698.0	1720.8	1743.6	1765.7
7.5°	1497.6	1508.6	1529.6	1553.2	1578.5	1601.9	1623.0	1650.6	1680.8	1714.0	1751.0
10°	1439.6	1451.7	1476.6	1503.6	1533.6	1556.3	1584.8	1617.6	1651.7	1692.3	1737.9
12.5°	1387.1	1398.7	1428.7	1456.3	1487.4	1512.4	1545.5	1578.9	1624.4	1668.4	1720.2
15°	1285.0	1315.7	1349.9	1382.6	1419.6	1450.3	1490.1	1524.3	1567.7	1629.7	1688.7
17.5°	1171.7	1204.3	1246.8	1297.4	1347.0	1384.9	1425.3	1467.8	1519.5	1582.7	1650.9
20°	1105.6	1132.0	1179.0	1235.2	1292.9	1345.6	1382.6	1429.6	1483.0	1551.3	1621.8
22.5°	1056.1	1078.4	1115.2	1171.4	1233.7	1294.9	1342.2	1388.6	1447.7	1516.0	1592.8
25°	981.8	1006.0	1038.0	1076.5	1147.6	1212.5	1274.4	1327.8	1390.4	1458.7	1544.2
27.5°	920.0	941.0	970.4	1010.4	1058.3	1129.7	1204.8	1265.7	1329.9	1403.3	1488.8
30°	883.5	900.6	924.8	965.4	1010.9	1075.0	1151.2	1222.4	1287.2	1363.4	1452.4
32.5°	845.3	863.6	887.3	919.3	968.2	1022.1	1098.2	1176.3	1245.1	1322.9	1410.2
35°	794.5	808.8	830.1	862.9	907.0	954.0	1021.6	1102.1	1174.7	1258.0	1341.3
37.5°	743.2	759.9	776.8	805.9	842.1	892.6	948.1	1030.2	1110.6	1186.7	1268.0
40°	714.1	724.1	742.5	766.1	804.5	849.4	901.3	981.8	1062.2	1137.7	1219.6
42.5°	681.6	692.8	708.4	731.9	766.3	810.0	860.9	930.5	1014.4	1087.6	1162.1
45°	636.5	642.9	658.5	678.5	706.9	751.1	798.1	860.1	939.1	1008.8	1074.3
47.5°	590.9	596.5	606.3	624.6	656.4	691.9	735.8	791.4	860.8	930.5	985.9
50°	559.5	564.5	573.8	590.9	619.4	654.2	697.7	747.5	809.5	876.4	922.7
52.5°	528.2	531.0	539.7	559.0	582.9	617.2	656.1	702.0	759.9	815.5	862.3
55°	478.4	484.8	490.5	504.8	527.5	560.3	595.2	638.6	683.5	730.5	770.3
57.5°	426.4	433.5	441.7	454.2	472.3	502.7	534.1	569.3	607.6	646.6	680.0
60°	392.3	398.7	405.8	420.1	436.4	460.7	494.8	525.4	554.6	590.2	623.7
62.5°	358.6	365.1	373.4	384.8	400.6	423.7	452.1	478.8	509.1	540.1	565.0
65°	309.0	314.0	320.4	331.1	346.0	366.7	390.1	410.8	437.8	460.7	483.4
67.5°	254.5	264.0	272.4	281.1	293.7	313.0	329.9	349.7	368.1	385.0	405.8
70°	218.6	229.3	237.1	246.3	258.4	274.8	291.1	304.7	319.7	336.0	354.5
72.5°	188.4	196.8	202.9	212.8	223.7	238.9	254.1	265.4	277.5	288.7	306.7
75°	148.8	152.4	156.7	164.4	174.4	185.8	198.0	207.9	215.0	225.0	237.8
77.5°	106.9	113.8	116.6	122.2	129.3	136.4	144.4	152.8	159.6	163.2	173.0
80°	81.9	84.7	87.6	95.4	99.7	106.8	112.4	120.3	123.1	126.7	136.0
82.5°	63.7	65.4	67.1	69.2	71.8	78.9	84.6	89.5	92.4	93.7	100.7
85°	37.0	37.7	38.4	39.1	39.9	39.9	42.7	46.3	51.3	51.3	53.4
87.5°	14.9	15.6	15.3	14.4	15.6	14.8	15.3	15.2	16.8	18.1	19.5
90°	11.9	12.6	11.1	9.7	9.7	5.6	5.6	4.9	4.2	2.1	0.7
92.5°	184.2	221.1	193.6	140.8	86.8	51.3	36.8	26.7	18.1	11.6	7.9
95°	584.3	568.3	428.8	262.2	147.8	87.1	57.9	41.1	32.1	25.1	23.0
97.5°	734.1	598.5	401.4	235.7	141.2	94.5	70.0	55.6	47.3	41.3	41.3
100°	739.0	560.6	364.0	221.8	142.9	101.8	79.5	66.3	57.9	53.0	53.0
102.5°	697.2	513.2	338.9	217.8	148.5	111.3	90.1	77.4	69.6	65.3	64.1
105°	621.3	457.4	317.3	219.6	161.8	128.3	108.1	95.5	87.1	83.6	81.6
107.5°	559.9	426.1	313.3	230.0	177.3	146.6	126.6	114.6	105.7	102.2	100.9
110°	529.2	415.5	314.4	237.7	189.0	158.3	139.5	126.9	118.5	115.0	113.7



TEST NUMBER: P332999-940

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	511.9	410.5	317.8	246.1	200.1	170.6	151.7	139.2	131.3	127.3	125.9
115°	495.7	407.9	324.2	259.4	217.6	189.7	170.9	157.6	150.6	145.7	143.7
117.5°	488.5	407.2	331.1	272.9	234.4	207.9	188.4	176.0	168.4	164.0	162.0
120°	484.6	407.2	336.1	282.4	246.1	219.6	200.1	188.2	180.6	175.7	174.3
122.5°	480.1	406.6	341.1	291.3	257.3	230.8	211.8	198.9	191.7	186.9	185.5
125°	472.7	405.8	348.7	304.7	272.6	247.5	228.0	214.7	207.1	202.9	200.1
127.5°	462.8	404.3	354.6	316.3	286.9	262.6	242.9	229.1	220.3	215.3	213.1
130°	456.7	403.7	359.1	323.5	296.3	272.6	252.4	239.2	228.7	223.1	220.3
132.5°	451.1	403.1	363.0	330.7	304.2	280.4	261.4	247.0	237.1	229.8	227.6
135°	442.7	402.3	368.8	340.3	315.1	292.1	274.0	259.4	247.5	240.6	237.7
137.5°	435.5	402.2	372.3	347.0	323.5	302.0	284.7	269.6	258.2	250.6	248.0
140°	431.6	401.6	375.1	351.4	329.1	308.2	291.4	276.8	264.9	257.3	255.2
142.5°	428.3	401.6	377.4	354.7	334.1	313.8	297.6	283.5	272.2	265.1	263.0
145°	422.5	400.2	378.6	358.4	339.6	321.5	306.1	292.8	283.1	276.1	274.0
147.5°	417.4	397.7	379.3	361.6	345.2	328.1	314.3	303.3	293.3	287.1	286.4
150°	413.5	396.0	379.3	363.3	347.9	332.6	319.3	308.9	300.5	295.0	294.3
152.5°	409.0	393.2	378.2	364.4	350.2	336.5	324.4	315.0	307.2	301.7	301.5
155°	402.3	389.1	376.5	365.3	353.5	341.6	331.2	323.5	316.6	312.4	311.7
157.5°	395.5	384.8	374.7	365.3	355.9	345.8	337.6	330.9	325.5	321.6	321.6
160°	390.5	381.4	373.0	365.3	357.0	348.7	341.0	335.4	330.5	327.7	327.7
162.5°	386.0	378.1	371.4	365.3	358.1	350.3	344.3	339.3	334.9	332.7	333.3
165°	378.6	373.0	368.2	364.0	358.4	352.1	347.9	344.5	341.0	339.6	339.6
167.5°	371.9	368.0	364.8	362.3	358.3	353.7	350.4	348.5	345.8	345.2	345.8
170°	367.5	364.6	362.6	361.1	357.7	354.2	352.1	350.7	348.7	347.9	348.7
172.5°	363.6	361.3	360.3	360.1	357.1	354.7	353.2	352.4	350.9	350.7	351.4
175°	359.1	357.7	357.7	358.4	356.3	354.9	354.9	354.2	353.5	353.5	354.2
177.5°	356.0	355.4	355.4	356.6	355.4	354.9	354.9	354.9	354.4	354.9	355.4
180°	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9



TEST NUMBER: P332999-940

CATALOG NUMBER: SA4XXRDIP-C1195D810U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1
2.5°	1777.9	1783.0	1788.7	1799.6	1808.7	1812.7	1820.6	1826.3	1824.6	1832.6	1846.2
5°	1784.8	1804.1	1826.1	1849.0	1874.6	1896.0	1913.0	1930.1	1943.7	1960.0	1984.2
7.5°	1783.7	1817.9	1855.0	1896.0	1938.0	1974.2	2007.9	2042.0	2072.3	2105.5	2148.9
10°	1779.1	1824.7	1871.0	1924.4	1977.8	2028.4	2073.9	2116.7	2157.2	2200.7	2255.5
12.5°	1774.1	1826.4	1882.4	1946.6	2013.1	2073.9	2127.4	2189.0	2239.8	2295.8	2359.1
15°	1751.4	1821.9	1898.1	1981.4	2061.1	2143.0	2216.3	2291.8	2362.2	2429.2	2508.9
17.5°	1725.5	1806.8	1896.7	1995.0	2090.9	2190.4	2277.4	2372.5	2444.5	2534.4	2608.4
20°	1704.4	1792.0	1888.1	1998.4	2107.4	2217.7	2313.8	2410.7	2491.8	2582.2	2676.2
22.5°	1678.7	1774.9	1879.0	1993.3	2107.4	2227.9	2334.3	2430.6	2531.1	2633.0	2729.8
25°	1637.4	1737.1	1847.5	1972.8	2103.8	2227.0	2340.9	2460.5	2568.8	2679.1	2765.9
27.5°	1586.8	1691.5	1807.8	1937.1	2071.5	2197.6	2331.8	2459.2	2568.1	2674.3	2750.1
30°	1546.3	1656.7	1768.4	1899.5	2039.0	2174.3	2318.1	2445.5	2560.2	2655.6	2698.3
32.5°	1504.8	1609.4	1724.7	1857.3	2000.3	2145.8	2288.5	2418.8	2524.9	2582.1	2583.2
35°	1432.4	1530.7	1650.3	1780.6	1927.3	2085.3	2229.8	2358.0	2422.8	2427.8	2358.0
37.5°	1353.5	1443.7	1556.6	1687.0	1847.6	2004.8	2152.5	2237.9	2259.6	2187.1	2058.1
40°	1297.2	1380.5	1489.4	1623.3	1782.7	1945.1	2079.6	2142.2	2119.5	2002.0	1858.1
42.5°	1238.0	1315.5	1420.5	1552.6	1712.7	1876.7	1991.4	2024.9	1964.5	1828.9	1660.5
45°	1141.3	1212.5	1316.4	1449.6	1603.3	1757.1	1844.0	1826.8	1726.4	1565.6	1376.9
47.5°	1040.6	1109.4	1202.9	1326.1	1483.5	1616.2	1675.1	1623.5	1480.7	1303.7	1150.2
50°	973.9	1044.5	1130.6	1248.0	1391.9	1520.0	1557.7	1479.4	1320.6	1150.5	1009.5
52.5°	908.5	968.7	1053.1	1166.6	1304.1	1412.4	1432.4	1342.2	1178.3	1025.7	900.7
55°	808.8	863.6	934.8	1041.6	1160.5	1252.3	1241.6	1125.6	976.8	846.5	748.2
57.5°	712.4	753.7	819.5	919.5	1024.0	1085.6	1046.6	947.6	809.0	702.3	619.4
60°	648.6	687.1	748.2	835.8	927.6	962.5	929.8	822.3	712.7	615.1	545.4
62.5°	588.2	622.1	674.8	756.1	830.3	851.0	815.9	722.0	623.2	539.9	482.1
65°	500.5	531.8	576.7	634.4	685.6	695.5	672.8	576.7	501.9	432.1	392.3
67.5°	420.9	441.4	476.4	526.3	553.5	559.3	515.3	455.0	389.1	346.2	316.1
70°	367.4	381.6	414.4	441.4	463.5	464.2	423.7	375.2	324.7	289.8	267.7
72.5°	315.6	329.2	354.0	372.5	389.4	383.9	346.7	308.5	267.7	241.4	225.0
75°	243.5	255.6	268.4	277.0	277.0	269.8	242.8	214.3	190.8	175.1	170.1
77.5°	177.0	187.0	191.3	189.9	187.3	176.3	159.2	140.5	132.2	124.8	121.0
80°	138.8	143.1	144.5	141.0	136.7	123.9	112.4	104.7	96.8	94.0	92.6
82.5°	102.9	106.6	102.9	104.0	94.5	84.0	77.8	75.1	71.8	70.6	69.2
85°	54.8	54.1	52.7	49.1	42.7	41.3	40.6	39.9	38.4	39.1	37.7
87.5°	19.2	17.9	15.8	15.3	15.3	15.1	15.6	15.9	16.1	15.4	16.8
90°	2.1	4.2	4.9	5.6	5.6	9.7	9.7	11.1	12.6	11.9	12.6
92.5°	11.6	18.1	26.7	36.8	51.3	86.8	140.8	193.6	221.1	184.2	137.0
95°	25.1	32.1	41.1	57.9	87.1	147.8	262.2	428.8	568.3	584.3	516.7
97.5°	41.3	47.3	55.6	70.0	94.5	141.2	235.7	401.4	598.5	734.1	763.3
100°	53.0	57.9	66.3	79.5	101.8	142.9	221.8	364.0	560.6	739.0	840.9
102.5°	65.3	69.6	77.4	90.1	111.3	148.5	217.8	338.9	513.2	697.2	837.0
105°	83.6	87.1	95.5	108.1	128.3	161.8	219.6	317.3	457.4	621.3	781.0
107.5°	102.2	105.7	114.6	126.6	146.6	177.3	230.0	313.3	426.1	559.9	701.3
110°	115.0	118.5	126.9	139.5	158.3	189.0	237.7	314.4	415.5	529.2	653.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	127.3	131.3	139.2	151.7	170.6	200.1	246.1	317.8	410.5	511.9	618.2
115°	145.7	150.6	157.6	170.9	189.7	217.6	259.4	324.2	407.9	495.7	582.9
117.5°	164.0	168.4	176.0	188.4	207.9	234.4	272.9	331.1	407.2	488.5	565.6
120°	175.7	180.6	188.2	200.1	219.6	246.1	282.4	336.1	407.2	484.6	557.8
122.5°	186.9	191.7	198.9	211.8	230.8	257.3	291.3	341.1	406.6	480.1	551.1
125°	202.9	207.1	214.7	228.0	247.5	272.6	304.7	348.7	405.8	472.7	539.7
127.5°	215.3	220.3	229.1	242.9	262.6	286.9	316.3	354.6	404.3	462.8	525.8
130°	223.1	228.7	239.2	252.4	272.6	296.3	323.5	359.1	403.7	456.7	514.6
132.5°	229.8	237.1	247.0	261.4	280.4	304.2	330.7	363.0	403.1	451.1	502.8
135°	240.6	247.5	259.4	274.0	292.1	315.1	340.3	368.8	402.3	442.7	486.7
137.5°	250.6	258.2	269.6	284.7	302.0	323.5	347.0	372.3	402.2	435.5	472.1
140°	257.3	264.9	276.8	291.4	308.2	329.1	351.4	375.1	401.6	431.6	463.7
142.5°	265.1	272.2	283.5	297.6	313.8	334.1	354.7	377.4	401.6	428.3	455.8
145°	276.1	283.1	292.8	306.1	321.5	339.6	358.4	378.6	400.2	422.5	444.9
147.5°	287.1	293.3	303.3	314.3	328.1	345.2	361.6	379.3	397.7	417.4	435.8
150°	295.0	300.5	308.9	319.3	332.6	347.9	363.3	379.3	396.0	413.5	430.2
152.5°	301.7	307.2	315.0	324.4	336.5	350.2	364.4	378.2	393.2	409.0	424.1
155°	312.4	316.6	323.5	331.2	341.6	353.5	365.3	376.5	389.1	402.3	414.8
157.5°	321.6	325.5	330.9	337.6	345.8	355.9	365.3	374.7	384.8	395.5	404.9
160°	327.7	330.5	335.4	341.0	348.7	357.0	365.3	373.0	381.4	390.5	398.9
162.5°	332.7	334.9	339.3	344.3	350.3	358.1	365.3	371.4	378.1	386.0	392.7
165°	339.6	341.0	344.5	347.9	352.1	358.4	364.0	368.2	373.0	378.6	384.1
167.5°	345.2	345.8	348.5	350.4	353.7	358.3	362.3	364.8	368.0	371.9	375.9
170°	347.9	348.7	350.7	352.1	354.2	357.7	361.1	362.6	364.6	367.5	371.0
172.5°	350.7	350.9	352.4	353.2	354.7	357.1	360.1	360.3	361.3	363.6	366.5
175°	353.5	353.5	354.2	354.9	354.9	356.3	358.4	357.7	357.7	359.1	360.5
177.5°	354.9	354.4	354.9	354.9	354.9	355.4	356.6	355.4	355.4	356.0	356.6
180°	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1
2.5°	1853.6	1855.9	1857.6	1863.3	1863.9	1869.0	1863.9
5°	2007.0	2017.0	2032.7	2048.3	2049.7	2059.7	2041.8
7.5°	2179.0	2202.1	2216.4	2241.8	2251.7	2258.0	2247.7
10°	2297.5	2318.8	2356.5	2375.1	2393.6	2396.4	2387.9
12.5°	2412.0	2445.9	2475.6	2510.6	2509.8	2534.9	2525.7
15°	2564.5	2599.3	2640.6	2679.8	2694.0	2694.0	2705.5
17.5°	2673.3	2737.2	2779.9	2810.7	2844.2	2850.1	2846.1
20°	2746.7	2815.8	2861.3	2901.2	2924.0	2930.4	2930.4
22.5°	2801.4	2860.2	2904.7	2940.5	2959.3	2966.8	2964.6
25°	2839.3	2889.8	2916.9	2927.6	2932.5	2931.1	2917.6
27.5°	2787.4	2785.2	2768.0	2735.3	2710.7	2695.7	2678.6
30°	2688.3	2651.3	2608.6	2561.6	2501.1	2454.8	2440.5
32.5°	2540.8	2457.6	2385.3	2307.0	2241.9	2195.7	2176.3
35°	2255.5	2123.8	2016.2	1922.3	1854.0	1811.2	1797.0
37.5°	1916.8	1789.4	1656.3	1565.1	1508.5	1465.3	1449.2
40°	1701.6	1562.7	1446.7	1361.3	1302.9	1260.9	1260.2
42.5°	1505.0	1372.5	1263.3	1201.8	1138.8	1111.1	1110.9
45°	1232.3	1126.3	1033.8	985.3	947.6	924.8	918.4
47.5°	1020.4	932.6	871.0	832.4	801.6	787.1	777.8
50°	901.3	824.5	775.3	741.8	724.8	706.2	704.8
52.5°	802.2	740.1	701.9	674.7	653.0	641.9	642.2
55°	674.2	625.1	598.1	577.4	560.3	551.8	548.2
57.5°	568.0	531.1	511.5	492.5	485.3	478.6	476.7
60°	501.9	477.0	458.5	443.5	432.8	430.7	430.0
62.5°	447.3	421.2	408.4	396.8	389.1	385.8	384.4
65°	368.8	349.6	338.1	329.0	326.1	321.1	320.4
67.5°	297.3	285.8	278.2	271.8	268.0	267.7	267.7
70°	253.4	247.0	240.7	237.1	235.0	233.5	233.5
72.5°	215.9	211.2	205.9	204.0	203.6	202.2	201.6
75°	164.4	159.4	160.2	156.7	153.8	150.3	148.1
77.5°	116.6	113.1	112.4	111.9	109.5	109.1	110.2
80°	90.4	86.9	86.1	86.9	86.1	84.0	84.0
82.5°	68.8	65.8	65.1	64.6	63.9	64.6	63.5
85°	37.0	35.6	35.6	35.6	37.0	36.3	35.6
87.5°	15.8	15.3	15.9	15.4	15.6	14.9	15.4
90°	13.3	13.9	13.9	14.6	15.3	14.6	14.6
92.5°	103.1	82.0	68.0	59.8	56.1	53.7	53.7
95°	408.6	315.1	247.5	213.4	191.7	179.2	170.1
97.5°	723.2	655.0	582.2	532.2	490.2	469.2	454.8
100°	854.8	820.6	769.1	708.4	665.8	645.0	639.4
102.5°	906.2	916.1	894.6	857.4	826.5	804.5	800.0
105°	901.5	970.5	999.2	1000.6	995.0	985.3	981.1
107.5°	829.7	926.9	989.1	1023.6	1039.5	1046.4	1048.2
110°	773.9	875.0	951.7	1001.2	1030.6	1043.1	1049.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	724.9	820.4	897.1	953.2	988.7	1006.3	1016.5
115°	668.7	750.2	817.2	872.3	914.1	936.4	942.0
117.5°	636.6	700.7	757.5	804.5	839.6	862.2	866.6
120°	622.7	678.4	727.9	767.7	798.3	816.5	824.1
122.5°	613.7	664.5	707.8	741.5	767.7	783.0	790.7
125°	599.7	647.7	686.1	714.0	734.2	747.4	751.6
127.5°	583.0	631.0	667.4	695.4	713.5	724.6	728.8
130°	569.6	617.1	654.0	682.6	700.1	711.2	715.4
132.5°	554.6	600.9	637.8	665.8	685.5	696.2	700.3
135°	532.0	574.5	609.4	637.3	656.8	668.0	672.2
137.5°	510.4	546.3	577.7	603.8	623.0	632.2	637.3
140°	496.4	527.8	557.1	581.5	596.8	606.6	612.2
142.5°	484.7	511.7	537.0	558.7	572.8	581.5	585.4
145°	468.6	489.5	509.0	526.5	538.2	545.3	548.8
147.5°	454.6	471.4	486.7	499.5	509.7	515.0	516.2
150°	446.2	460.2	472.7	483.9	492.9	497.1	497.8
152.5°	437.8	450.7	461.0	470.5	477.9	480.4	481.1
155°	426.1	436.5	444.9	451.8	457.4	459.5	459.5
157.5°	414.3	423.1	429.8	435.1	439.3	440.5	440.5
160°	406.5	414.2	419.7	423.9	428.1	428.8	428.8
162.5°	399.2	405.3	410.3	413.3	417.5	418.2	417.7
165°	388.3	393.2	396.7	399.5	402.3	401.6	400.9
167.5°	379.2	383.1	385.1	386.6	388.3	388.3	387.6
170°	373.0	375.9	377.9	379.3	380.0	379.3	379.3
172.5°	368.0	369.7	371.2	372.0	372.7	372.0	371.0
175°	361.1	362.6	362.6	362.6	364.0	362.6	361.1
177.5°	357.1	357.1	357.7	357.1	357.7	356.6	355.4
180°	354.9	354.9	354.9	354.9	354.9	354.9	354.9

(END OF REPORT)