

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: P332992-940

Luminaire Tested: **SA4XXRDIP-C1195D590U940-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332992-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXRDIP-C1195D590U940-4F0-1E-UDD-A1  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 590 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6293.2 lumens  
Efficiency: N/A  
Efficacy: 114.2 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

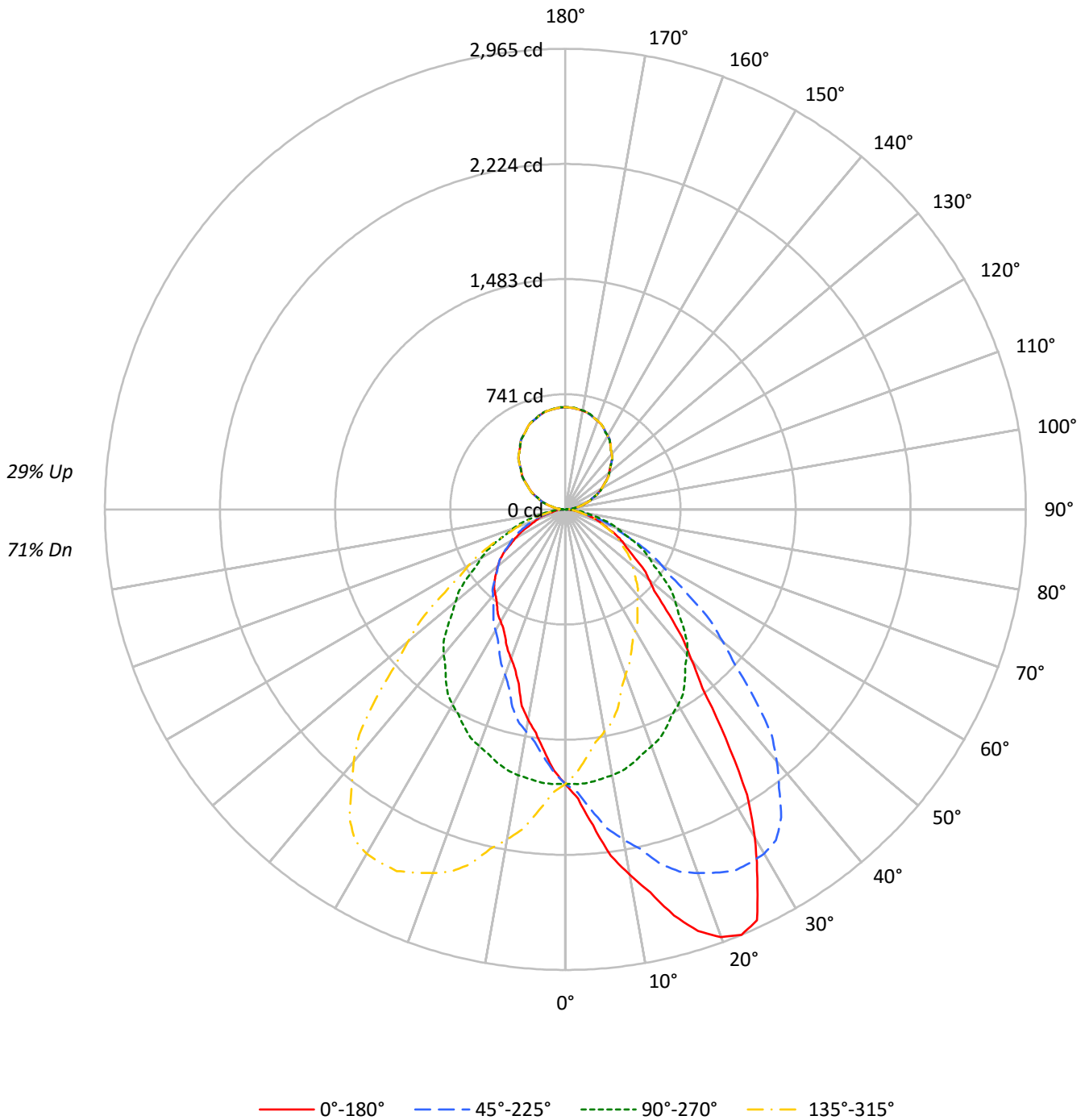
Input Watts (W): 55.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71				71
1	103	99	95	92	98	94	91	88	84	82	80	76	74	72	68	66	65	61				61
2	94	87	81	76	89	83	78	73	75	71	67	67	64	61	60	58	56	52				52
3	87	77	70	64	82	74	67	62	67	61	57	60	56	53	54	51	48	45				45
4	80	69	61	55	75	66	59	53	60	54	49	54	49	46	49	45	42	39				39
5	73	62	54	48	69	59	52	46	54	48	43	49	44	40	44	40	37	34				34
6	68	56	48	42	64	53	46	40	49	42	38	44	39	35	40	36	33	30				30
7	63	51	43	37	60	48	41	36	44	38	34	40	35	31	37	33	29	27				27
8	59	46	38	33	55	44	37	32	41	34	30	37	32	28	34	30	26	24				24
9	55	42	35	30	52	41	34	29	37	31	27	34	29	26	31	27	24	22				22
10	51	39	32	27	49	37	31	26	35	29	25	32	27	23	29	25	22	20				20

**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	2.7
10°-20°	516.5	8.2
20°-30°	807.8	12.8
30°-40°	898.0	14.3
40°-50°	796.7	12.7
50°-60°	620.8	9.9
60°-70°	406.5	6.5
70°-80°	199.9	3.2
80°-90°	51.3	0.8
90°-100°	43.4	0.7
100°-110°	128.5	2.0
110°-120°	218.1	3.5
120°-130°	287.6	4.6
130°-140°	322.9	5.1
140°-150°	317.3	5.0
150°-160°	266.9	4.2
160°-170°	177.6	2.8
170°-180°	62.2	1.0
0°-30°	1495.5	23.8
0°-40°	2393.5	38.0
0°-60°	3811.0	60.6
0°-90°	4468.7	71.0
90°-120°	389.9	6.2
90°-150°	1317.8	20.9
90°-180°	1824.0	29.0
0°-180°	6293.2	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	2	15	2	15	9
95°	40	30	40	30	40	42
105°	124	118	124	118	124	131
115°	220	222	220	222	220	217
125°	320	323	320	323	320	286
135°	417	416	417	416	417	322
145°	507	506	507	506	507	317
155°	579	580	579	580	579	267
165°	630	631	630	631	630	177
175°	654	657	654	657	654	62
180°	658	658	658	658	658	



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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°	15.6	15.0	15.5	15.4	16.0	15.3	15.8	16.8	15.5	15.9	15.7
90°	15.2	15.1	14.8	14.6	14.4	13.9	13.2	12.6	11.9	11.1	10.3
92.5°	22.6	22.5	22.3	22.2	22.0	21.8	21.4	21.0	20.5	20.2	19.5
95°	40.2	40.2	40.2	40.2	40.2	40.0	39.7	39.3	39.0	38.6	37.9
97.5°	63.0	63.0	63.0	63.0	63.0	62.8	62.3	62.0	61.5	61.2	60.2
100°	78.8	78.8	78.8	78.8	78.8	78.7	78.5	78.3	78.0	77.8	76.8
102.5°	96.8	96.7	96.6	96.5	96.4	96.1	95.9	95.5	95.2	94.9	94.0
105°	124.1	123.8	123.4	123.1	122.7	122.4	122.1	121.7	121.4	121.0	120.6
107.5°	150.8	150.8	150.8	150.8	150.9	150.7	150.3	150.1	149.7	149.5	149.4
110°	169.9	169.5	169.2	168.9	168.5	168.4	168.7	168.9	169.2	169.3	169.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	189.4	189.3	189.2	189.2	189.1	189.1	189.1	189.2	189.2	189.3	189.5
115°	219.7	219.8	219.9	220.1	220.2	220.3	220.4	220.5	220.6	220.7	221.0
117.5°	248.6	248.8	249.1	249.2	249.5	249.8	250.2	250.6	250.9	251.4	251.5
120°	270.5	270.4	270.1	269.9	269.7	269.8	270.4	271.0	271.5	272.1	272.4
122.5°	288.9	289.3	289.7	290.1	290.5	290.9	291.3	291.7	292.0	292.5	292.6
125°	320.4	320.7	320.8	321.1	321.3	321.6	321.7	322.0	322.2	322.4	322.5
127.5°	349.6	349.8	350.0	350.2	350.4	350.5	350.8	351.0	351.2	351.4	351.6
130°	368.7	369.2	369.6	370.1	370.5	370.9	371.1	371.3	371.6	371.8	371.8
132.5°	389.1	389.2	389.4	389.6	389.8	390.0	390.2	390.5	390.7	390.9	391.0
135°	417.1	417.4	417.7	418.0	418.4	418.7	418.9	419.1	419.4	419.5	419.5
137.5°	446.5	446.4	446.3	446.2	446.1	446.3	446.6	446.8	447.2	447.5	447.3
140°	464.3	464.5	464.6	464.7	464.8	464.9	465.0	465.1	465.2	465.4	465.4
142.5°	482.2	482.2	482.3	482.3	482.3	482.3	482.4	482.4	482.4	482.4	482.5
145°	506.6	506.8	507.2	507.6	507.9	508.1	508.3	508.4	508.5	508.5	508.5
147.5°	531.2	531.3	531.4	531.5	531.6	531.7	531.8	531.9	532.0	532.1	532.2
150°	546.3	546.4	546.4	546.5	546.7	546.7	546.7	546.7	546.7	546.7	546.7
152.5°	560.1	560.4	560.6	561.0	561.2	561.2	561.0	560.7	560.4	560.2	560.1
155°	579.3	579.7	580.1	580.6	581.1	581.1	580.6	580.1	579.7	579.3	579.4
157.5°	596.5	596.8	597.3	597.6	598.0	598.1	597.7	597.4	597.0	596.6	596.7
160°	606.3	606.8	607.3	608.0	608.5	608.6	608.2	608.0	607.6	607.3	607.3
162.5°	616.4	617.0	617.5	618.1	618.7	618.7	618.0	617.4	616.8	616.2	616.4
165°	629.6	630.1	630.5	631.0	631.4	631.3	630.6	630.0	629.3	628.7	628.8
167.5°	639.1	639.8	640.5	641.2	641.9	641.9	641.2	640.5	639.9	639.2	639.2
170°	644.4	645.2	646.0	646.8	647.6	647.6	646.9	646.2	645.6	644.9	644.8
172.5°	648.9	649.6	650.4	651.2	652.0	652.0	651.3	650.5	649.7	649.0	648.9
175°	653.5	654.3	655.1	655.9	656.7	656.7	655.9	655.1	654.3	653.5	653.6
177.5°	655.9	656.7	657.5	658.2	658.9	658.9	658.3	657.6	657.0	656.4	656.4
180°	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6



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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°	15.5	14.8	15.8	15.5	15.9	17.9	19.4	19.7	18.2	16.8	15.2
90°	9.4	8.5	7.6	6.5	5.3	4.0	2.8	1.5	2.8	4.0	5.3
92.5°	18.9	18.3	17.6	16.6	15.2	13.7	12.3	10.9	12.3	13.7	15.2
95°	37.1	36.3	35.5	34.6	33.5	32.5	31.6	30.5	31.6	32.5	33.5
97.5°	59.3	58.3	57.4	56.5	55.7	54.9	54.1	53.3	54.1	54.9	55.7
100°	75.8	74.7	73.7	73.0	72.6	72.1	71.7	71.2	71.7	72.1	72.6
102.5°	93.0	92.1	91.2	90.6	90.4	90.2	90.1	89.9	90.1	90.2	90.4
105°	120.1	119.7	119.2	119.0	118.9	118.7	118.6	118.5	118.6	118.7	118.9
107.5°	149.3	149.2	149.2	149.1	148.9	148.7	148.6	148.5	148.6	148.7	148.9
110°	169.6	169.7	169.8	169.8	169.5	169.3	169.1	168.9	169.1	169.3	169.5





TEST NUMBER: P332992-940

CATALOG NUMBER: SA4XXRDIP-C1195D590U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	189.7	189.9	190.1	190.2	190.1	190.1	190.0	190.0	190.0	190.1	190.1
115°	221.1	221.4	221.6	221.8	221.8	221.8	221.8	221.8	221.8	221.8	221.8
117.5°	251.6	251.8	252.0	252.0	251.9	251.8	251.7	251.6	251.7	251.8	251.9
120°	272.8	273.1	273.5	273.4	273.0	272.5	272.1	271.6	272.1	272.5	273.0
122.5°	292.7	292.9	293.1	293.0	292.8	292.7	292.5	292.3	292.5	292.7	292.8
125°	322.7	322.8	322.9	323.0	323.0	323.0	323.0	323.0	323.0	323.0	323.0
127.5°	351.8	352.0	352.1	352.0	351.8	351.4	351.1	350.7	351.1	351.4	351.8
130°	371.8	371.8	371.8	371.6	371.3	371.0	370.6	370.2	370.6	371.0	371.3
132.5°	391.1	391.2	391.3	391.2	390.9	390.7	390.5	390.2	390.5	390.7	390.9
135°	419.5	419.5	419.5	419.3	418.6	417.9	417.2	416.5	417.2	417.9	418.6
137.5°	447.1	446.9	446.7	446.5	446.1	445.9	445.5	445.2	445.5	445.9	446.1
140°	465.4	465.4	465.4	465.2	465.0	464.8	464.6	464.3	464.6	464.8	465.0
142.5°	482.6	482.7	482.8	482.8	482.5	482.3	482.1	481.8	482.1	482.3	482.5
145°	508.4	508.3	508.1	507.8	507.4	506.9	506.5	506.0	506.5	506.9	507.4
147.5°	532.3	532.4	532.4	532.3	531.6	531.1	530.6	530.0	530.6	531.1	531.6
150°	546.7	546.7	546.7	546.5	546.1	545.6	545.2	544.7	545.2	545.6	546.1
152.5°	560.0	559.9	559.8	559.6	559.4	559.1	558.8	558.6	558.8	559.1	559.4
155°	579.5	579.6	579.7	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8
157.5°	596.7	596.7	596.7	596.9	597.1	597.3	597.4	597.7	597.4	597.3	597.1
160°	607.5	607.6	607.7	607.8	608.0	608.1	608.1	608.2	608.1	608.1	608.0
162.5°	616.4	616.5	616.6	616.9	617.2	617.4	617.8	618.0	617.8	617.4	617.2
165°	629.1	629.3	629.5	629.8	630.2	630.4	630.8	631.2	630.8	630.4	630.2
167.5°	639.2	639.1	639.1	639.4	639.8	640.2	640.8	641.2	640.8	640.2	639.8
170°	644.6	644.5	644.4	644.6	645.2	645.8	646.4	646.9	646.4	645.8	645.2
172.5°	648.9	648.9	648.9	649.1	649.6	650.1	650.5	650.9	650.5	650.1	649.6
175°	653.8	653.9	654.0	654.3	654.9	655.5	656.0	656.6	656.0	655.5	654.9
177.5°	656.4	656.4	656.4	656.6	657.1	657.5	658.0	658.4	658.0	657.5	657.1
180°	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6



TEST NUMBER: P332992-940

CATALOG NUMBER: SA4XXRDIP-C1195D590U940-4F0-1E-UDD-A1

**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°	15.5	15.2	15.3	14.4	15.2	15.3	14.9	15.1	15.8	14.7	14.8
90°	6.5	7.6	8.5	9.4	10.3	11.1	11.9	12.6	13.2	13.9	14.4
92.5°	16.6	17.6	18.3	18.9	19.5	20.2	20.5	21.0	21.4	21.8	22.0
95°	34.6	35.5	36.3	37.1	37.9	38.6	39.0	39.3	39.7	40.0	40.2
97.5°	56.5	57.4	58.3	59.3	60.2	61.2	61.5	62.0	62.3	62.8	63.0
100°	73.0	73.7	74.7	75.8	76.8	77.8	78.0	78.3	78.5	78.7	78.8
102.5°	90.6	91.2	92.1	93.0	94.0	94.9	95.2	95.5	95.9	96.1	96.4
105°	119.0	119.2	119.7	120.1	120.6	121.0	121.4	121.7	122.1	122.4	122.7
107.5°	149.1	149.2	149.2	149.3	149.4	149.5	149.7	150.1	150.3	150.7	150.9
110°	169.8	169.8	169.7	169.6	169.5	169.3	169.2	168.9	168.7	168.4	168.5



TEST NUMBER: P332992-940

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	190.2	190.1	189.9	189.7	189.5	189.3	189.2	189.2	189.1	189.1	189.1
115°	221.8	221.6	221.4	221.1	221.0	220.7	220.6	220.5	220.4	220.3	220.2
117.5°	252.0	252.0	251.8	251.6	251.5	251.4	250.9	250.6	250.2	249.8	249.5
120°	273.4	273.5	273.1	272.8	272.4	272.1	271.5	271.0	270.4	269.8	269.7
122.5°	293.0	293.1	292.9	292.7	292.6	292.5	292.0	291.7	291.3	290.9	290.5
125°	323.0	322.9	322.8	322.7	322.5	322.4	322.2	322.0	321.7	321.6	321.3
127.5°	352.0	352.1	352.0	351.8	351.6	351.4	351.2	351.0	350.8	350.5	350.4
130°	371.6	371.8	371.8	371.8	371.8	371.8	371.6	371.3	371.1	370.9	370.5
132.5°	391.2	391.3	391.2	391.1	391.0	390.9	390.7	390.5	390.2	390.0	389.8
135°	419.3	419.5	419.5	419.5	419.5	419.5	419.4	419.1	418.9	418.7	418.4
137.5°	446.5	446.7	446.9	447.1	447.3	447.5	447.2	446.8	446.6	446.3	446.1
140°	465.2	465.4	465.4	465.4	465.4	465.4	465.2	465.1	465.0	464.9	464.8
142.5°	482.8	482.8	482.7	482.6	482.5	482.4	482.4	482.4	482.4	482.3	482.3
145°	507.8	508.1	508.3	508.4	508.5	508.5	508.5	508.4	508.3	508.1	507.9
147.5°	532.3	532.4	532.4	532.3	532.2	532.1	532.0	531.9	531.8	531.7	531.6
150°	546.5	546.7	546.7	546.7	546.7	546.7	546.7	546.7	546.7	546.7	546.7
152.5°	559.6	559.8	559.9	560.0	560.1	560.2	560.4	560.7	561.0	561.2	561.2
155°	579.8	579.7	579.6	579.5	579.4	579.3	579.7	580.1	580.6	581.1	581.1
157.5°	596.9	596.7	596.7	596.7	596.7	596.6	597.0	597.4	597.7	598.1	598.0
160°	607.8	607.7	607.6	607.5	607.3	607.3	607.6	608.0	608.2	608.6	608.5
162.5°	616.9	616.6	616.5	616.4	616.4	616.2	616.8	617.4	618.0	618.7	618.7
165°	629.8	629.5	629.3	629.1	628.8	628.7	629.3	630.0	630.6	631.3	631.4
167.5°	639.4	639.1	639.1	639.2	639.2	639.2	639.9	640.5	641.2	641.9	641.9
170°	644.6	644.4	644.5	644.6	644.8	644.9	645.6	646.2	646.9	647.6	647.6
172.5°	649.1	648.9	648.9	648.9	648.9	649.0	649.7	650.5	651.3	652.0	652.0
175°	654.3	654.0	653.9	653.8	653.6	653.5	654.3	655.1	655.9	656.7	656.7
177.5°	656.6	656.4	656.4	656.4	656.4	656.4	657.0	657.6	658.3	658.9	658.9
180°	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6



TEST NUMBER: P332992-940

CATALOG NUMBER: SA4XXRDIP-C1195D590U940-4F0-1E-UDD-A1

**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	15.5	15.0	15.6	15.0	15.5	16.1	14.8	14.7	15.8	15.1
90°	14.6	14.8	15.1	15.2	15.1	14.8	14.6	14.4	13.9	13.2	12.6
92.5°	22.2	22.3	22.5	22.6	22.5	22.3	22.2	22.0	21.8	21.4	21.0
95°	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.0	39.7	39.3
97.5°	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	62.8	62.3	62.0
100°	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.7	78.5	78.3
102.5°	96.5	96.6	96.7	96.8	96.7	96.6	96.5	96.4	96.1	95.9	95.5
105°	123.1	123.4	123.8	124.1	123.8	123.4	123.1	122.7	122.4	122.1	121.7
107.5°	150.8	150.8	150.8	150.8	150.8	150.8	150.8	150.9	150.7	150.3	150.1
110°	168.9	169.2	169.5	169.9	169.5	169.2	168.9	168.5	168.4	168.7	168.9



TEST NUMBER: P332992-940

CATALOG NUMBER: SA4XXRDIP-C1195D590U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	189.2	189.2	189.3	189.4	189.3	189.2	189.2	189.1	189.1	189.1	189.2
115°	220.1	219.9	219.8	219.7	219.8	219.9	220.1	220.2	220.3	220.4	220.5
117.5°	249.2	249.1	248.8	248.6	248.8	249.1	249.2	249.5	249.8	250.2	250.6
120°	269.9	270.1	270.4	270.5	270.4	270.1	269.9	269.7	269.8	270.4	271.0
122.5°	290.1	289.7	289.3	288.9	289.3	289.7	290.1	290.5	290.9	291.3	291.7
125°	321.1	320.8	320.7	320.4	320.7	320.8	321.1	321.3	321.6	321.7	322.0
127.5°	350.2	350.0	349.8	349.6	349.8	350.0	350.2	350.4	350.5	350.8	351.0
130°	370.1	369.6	369.2	368.7	369.2	369.6	370.1	370.5	370.9	371.1	371.3
132.5°	389.6	389.4	389.2	389.1	389.2	389.4	389.6	389.8	390.0	390.2	390.5
135°	418.0	417.7	417.4	417.1	417.4	417.7	418.0	418.4	418.7	418.9	419.1
137.5°	446.2	446.3	446.4	446.5	446.4	446.3	446.2	446.1	446.3	446.6	446.8
140°	464.7	464.6	464.5	464.3	464.5	464.6	464.7	464.8	464.9	465.0	465.1
142.5°	482.3	482.3	482.2	482.2	482.2	482.3	482.3	482.3	482.3	482.4	482.4
145°	507.6	507.2	506.8	506.6	506.8	507.2	507.6	507.9	508.1	508.3	508.4
147.5°	531.5	531.4	531.3	531.2	531.3	531.4	531.5	531.6	531.7	531.8	531.9
150°	546.5	546.4	546.4	546.3	546.4	546.4	546.5	546.7	546.7	546.7	546.7
152.5°	561.0	560.6	560.4	560.1	560.4	560.6	561.0	561.2	561.2	561.0	560.7
155°	580.6	580.1	579.7	579.3	579.7	580.1	580.6	581.1	581.1	580.6	580.1
157.5°	597.6	597.3	596.8	596.5	596.8	597.3	597.6	598.0	598.1	597.7	597.4
160°	608.0	607.3	606.8	606.3	606.8	607.3	608.0	608.5	608.6	608.2	608.0
162.5°	618.1	617.5	617.0	616.4	617.0	617.5	618.1	618.7	618.7	618.0	617.4
165°	631.0	630.5	630.1	629.6	630.1	630.5	631.0	631.4	631.3	630.6	630.0
167.5°	641.2	640.5	639.8	639.1	639.8	640.5	641.2	641.9	641.9	641.2	640.5
170°	646.8	646.0	645.2	644.4	645.2	646.0	646.8	647.6	647.6	646.9	646.2
172.5°	651.2	650.4	649.6	648.9	649.6	650.4	651.2	652.0	652.0	651.3	650.5
175°	655.9	655.1	654.3	653.5	654.3	655.1	655.9	656.7	656.7	655.9	655.1
177.5°	658.2	657.5	656.7	655.9	656.7	657.5	658.2	658.9	658.9	658.3	657.6
180°	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6



TEST NUMBER: P332992-940

CATALOG NUMBER: SA4XXRDIP-C1195D590U940-4F0-1E-UDD-A1

**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	15.3	15.2	14.4	15.3	15.2	15.5	15.2	16.8	18.2	19.7
90°	11.9	11.1	10.3	9.4	8.5	7.6	6.5	5.3	4.0	2.8	1.5
92.5°	20.5	20.2	19.5	18.9	18.3	17.6	16.6	15.2	13.7	12.3	10.9
95°	39.0	38.6	37.9	37.1	36.3	35.5	34.6	33.5	32.5	31.6	30.5
97.5°	61.5	61.2	60.2	59.3	58.3	57.4	56.5	55.7	54.9	54.1	53.3
100°	78.0	77.8	76.8	75.8	74.7	73.7	73.0	72.6	72.1	71.7	71.2
102.5°	95.2	94.9	94.0	93.0	92.1	91.2	90.6	90.4	90.2	90.1	89.9
105°	121.4	121.0	120.6	120.1	119.7	119.2	119.0	118.9	118.7	118.6	118.5
107.5°	149.7	149.5	149.4	149.3	149.2	149.2	149.1	148.9	148.7	148.6	148.5
110°	169.2	169.3	169.5	169.6	169.7	169.8	169.8	169.5	169.3	169.1	168.9



TEST NUMBER: P332992-940

CATALOG NUMBER: SA4XXRDIP-C1195D590U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	189.2	189.3	189.5	189.7	189.9	190.1	190.2	190.1	190.1	190.0	190.0
115°	220.6	220.7	221.0	221.1	221.4	221.6	221.8	221.8	221.8	221.8	221.8
117.5°	250.9	251.4	251.5	251.6	251.8	252.0	252.0	251.9	251.8	251.7	251.6
120°	271.5	272.1	272.4	272.8	273.1	273.5	273.4	273.0	272.5	272.1	271.6
122.5°	292.0	292.5	292.6	292.7	292.9	293.1	293.0	292.8	292.7	292.5	292.3
125°	322.2	322.4	322.5	322.7	322.8	322.9	323.0	323.0	323.0	323.0	323.0
127.5°	351.2	351.4	351.6	351.8	352.0	352.1	352.0	351.8	351.4	351.1	350.7
130°	371.6	371.8	371.8	371.8	371.8	371.8	371.6	371.3	371.0	370.6	370.2
132.5°	390.7	390.9	391.0	391.1	391.2	391.3	391.2	390.9	390.7	390.5	390.2
135°	419.4	419.5	419.5	419.5	419.5	419.5	419.3	418.6	417.9	417.2	416.5
137.5°	447.2	447.5	447.3	447.1	446.9	446.7	446.5	446.1	445.9	445.5	445.2
140°	465.2	465.4	465.4	465.4	465.4	465.4	465.2	465.0	464.8	464.6	464.3
142.5°	482.4	482.4	482.5	482.6	482.7	482.8	482.8	482.5	482.3	482.1	481.8
145°	508.5	508.5	508.5	508.4	508.3	508.1	507.8	507.4	506.9	506.5	506.0
147.5°	532.0	532.1	532.2	532.3	532.4	532.4	532.3	531.6	531.1	530.6	530.0
150°	546.7	546.7	546.7	546.7	546.7	546.7	546.5	546.1	545.6	545.2	544.7
152.5°	560.4	560.2	560.1	560.0	559.9	559.8	559.6	559.4	559.1	558.8	558.6
155°	579.7	579.3	579.4	579.5	579.6	579.7	579.8	579.8	579.8	579.8	579.8
157.5°	597.0	596.6	596.7	596.7	596.7	596.7	596.9	597.1	597.3	597.4	597.7
160°	607.6	607.3	607.3	607.5	607.6	607.7	607.8	608.0	608.1	608.1	608.2
162.5°	616.8	616.2	616.4	616.4	616.5	616.6	616.9	617.2	617.4	617.8	618.0
165°	629.3	628.7	628.8	629.1	629.3	629.5	629.8	630.2	630.4	630.8	631.2
167.5°	639.9	639.2	639.2	639.2	639.1	639.1	639.4	639.8	640.2	640.8	641.2
170°	645.6	644.9	644.8	644.6	644.5	644.4	644.6	645.2	645.8	646.4	646.9
172.5°	649.7	649.0	648.9	648.9	648.9	648.9	649.1	649.6	650.1	650.5	650.9
175°	654.3	653.5	653.6	653.8	653.9	654.0	654.3	654.9	655.5	656.0	656.6
177.5°	657.0	656.4	656.4	656.4	656.4	656.4	656.6	657.1	657.5	658.0	658.4
180°	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6



TEST NUMBER: P332992-940

CATALOG NUMBER: SA4XXRDIP-C1195D590U940-4F0-1E-UDD-A1

**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°	19.4	17.9	15.9	15.5	15.8	14.8	15.5	15.7	15.9	15.5	16.8
90°	2.8	4.0	5.3	6.5	7.6	8.5	9.4	10.3	11.1	11.9	12.6
92.5°	12.3	13.7	15.2	16.6	17.6	18.3	18.9	19.5	20.2	20.5	21.0
95°	31.6	32.5	33.5	34.6	35.5	36.3	37.1	37.9	38.6	39.0	39.3
97.5°	54.1	54.9	55.7	56.5	57.4	58.3	59.3	60.2	61.2	61.5	62.0
100°	71.7	72.1	72.6	73.0	73.7	74.7	75.8	76.8	77.8	78.0	78.3
102.5°	90.1	90.2	90.4	90.6	91.2	92.1	93.0	94.0	94.9	95.2	95.5
105°	118.6	118.7	118.9	119.0	119.2	119.7	120.1	120.6	121.0	121.4	121.7
107.5°	148.6	148.7	148.9	149.1	149.2	149.2	149.3	149.4	149.5	149.7	150.1
110°	169.1	169.3	169.5	169.8	169.8	169.7	169.6	169.5	169.3	169.2	168.9





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	190.0	190.1	190.1	190.2	190.1	189.9	189.7	189.5	189.3	189.2	189.2
115°	221.8	221.8	221.8	221.8	221.6	221.4	221.1	221.0	220.7	220.6	220.5
117.5°	251.7	251.8	251.9	252.0	252.0	251.8	251.6	251.5	251.4	250.9	250.6
120°	272.1	272.5	273.0	273.4	273.5	273.1	272.8	272.4	272.1	271.5	271.0
122.5°	292.5	292.7	292.8	293.0	293.1	292.9	292.7	292.6	292.5	292.0	291.7
125°	323.0	323.0	323.0	323.0	322.9	322.8	322.7	322.5	322.4	322.2	322.0
127.5°	351.1	351.4	351.8	352.0	352.1	352.0	351.8	351.6	351.4	351.2	351.0
130°	370.6	371.0	371.3	371.6	371.8	371.8	371.8	371.8	371.8	371.6	371.3
132.5°	390.5	390.7	390.9	391.2	391.3	391.2	391.1	391.0	390.9	390.7	390.5
135°	417.2	417.9	418.6	419.3	419.5	419.5	419.5	419.5	419.5	419.4	419.1
137.5°	445.5	445.9	446.1	446.5	446.7	446.9	447.1	447.3	447.5	447.2	446.8
140°	464.6	464.8	465.0	465.2	465.4	465.4	465.4	465.4	465.4	465.2	465.1
142.5°	482.1	482.3	482.5	482.8	482.8	482.7	482.6	482.5	482.4	482.4	482.4
145°	506.5	506.9	507.4	507.8	508.1	508.3	508.4	508.5	508.5	508.5	508.4
147.5°	530.6	531.1	531.6	532.3	532.4	532.4	532.3	532.2	532.1	532.0	531.9
150°	545.2	545.6	546.1	546.5	546.7	546.7	546.7	546.7	546.7	546.7	546.7
152.5°	558.8	559.1	559.4	559.6	559.8	559.9	560.0	560.1	560.2	560.4	560.7
155°	579.8	579.8	579.8	579.8	579.7	579.6	579.5	579.4	579.3	579.7	580.1
157.5°	597.4	597.3	597.1	596.9	596.7	596.7	596.7	596.7	596.6	597.0	597.4
160°	608.1	608.1	608.0	607.8	607.7	607.6	607.5	607.3	607.3	607.6	608.0
162.5°	617.8	617.4	617.2	616.9	616.6	616.5	616.4	616.4	616.2	616.8	617.4
165°	630.8	630.4	630.2	629.8	629.5	629.3	629.1	628.8	628.7	629.3	630.0
167.5°	640.8	640.2	639.8	639.4	639.1	639.1	639.2	639.2	639.2	639.9	640.5
170°	646.4	645.8	645.2	644.6	644.4	644.5	644.6	644.8	644.9	645.6	646.2
172.5°	650.5	650.1	649.6	649.1	648.9	648.9	648.9	648.9	649.0	649.7	650.5
175°	656.0	655.5	654.9	654.3	654.0	653.9	653.8	653.6	653.5	654.3	655.1
177.5°	658.0	657.5	657.1	656.6	656.4	656.4	656.4	656.4	656.4	657.0	657.6
180°	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6



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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	16.0	15.4	15.5	15.0	15.6
90°	13.2	13.9	14.4	14.6	14.8	15.1	15.2
92.5°	21.4	21.8	22.0	22.2	22.3	22.5	22.6
95°	39.7	40.0	40.2	40.2	40.2	40.2	40.2
97.5°	62.3	62.8	63.0	63.0	63.0	63.0	63.0
100°	78.5	78.7	78.8	78.8	78.8	78.8	78.8
102.5°	95.9	96.1	96.4	96.5	96.6	96.7	96.8
105°	122.1	122.4	122.7	123.1	123.4	123.8	124.1
107.5°	150.3	150.7	150.9	150.8	150.8	150.8	150.8
110°	168.7	168.4	168.5	168.9	169.2	169.5	169.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	189.1	189.1	189.1	189.2	189.2	189.3	189.4
115°	220.4	220.3	220.2	220.1	219.9	219.8	219.7
117.5°	250.2	249.8	249.5	249.2	249.1	248.8	248.6
120°	270.4	269.8	269.7	269.9	270.1	270.4	270.5
122.5°	291.3	290.9	290.5	290.1	289.7	289.3	288.9
125°	321.7	321.6	321.3	321.1	320.8	320.7	320.4
127.5°	350.8	350.5	350.4	350.2	350.0	349.8	349.6
130°	371.1	370.9	370.5	370.1	369.6	369.2	368.7
132.5°	390.2	390.0	389.8	389.6	389.4	389.2	389.1
135°	418.9	418.7	418.4	418.0	417.7	417.4	417.1
137.5°	446.6	446.3	446.1	446.2	446.3	446.4	446.5
140°	465.0	464.9	464.8	464.7	464.6	464.5	464.3
142.5°	482.4	482.3	482.3	482.3	482.3	482.2	482.2
145°	508.3	508.1	507.9	507.6	507.2	506.8	506.6
147.5°	531.8	531.7	531.6	531.5	531.4	531.3	531.2
150°	546.7	546.7	546.7	546.5	546.4	546.4	546.3
152.5°	561.0	561.2	561.2	561.0	560.6	560.4	560.1
155°	580.6	581.1	581.1	580.6	580.1	579.7	579.3
157.5°	597.7	598.1	598.0	597.6	597.3	596.8	596.5
160°	608.2	608.6	608.5	608.0	607.3	606.8	606.3
162.5°	618.0	618.7	618.7	618.1	617.5	617.0	616.4
165°	630.6	631.3	631.4	631.0	630.5	630.1	629.6
167.5°	641.2	641.9	641.9	641.2	640.5	639.8	639.1
170°	646.9	647.6	647.6	646.8	646.0	645.2	644.4
172.5°	651.3	652.0	652.0	651.2	650.4	649.6	648.9
175°	655.9	656.7	656.7	655.9	655.1	654.3	653.5
177.5°	658.3	658.9	658.9	658.2	657.5	656.7	655.9
180°	657.6	657.6	657.6	657.6	657.6	657.6	657.6

(END OF REPORT)