

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: P332998-940

Luminaire Tested: **SA4XXRDIP-C1195D810U940-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332998-940  
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-C1195D810U940-4F0-1E-UDD-A1  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 810 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6970.2 lumens  
Efficiency: N/A  
Efficacy: 114.8 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

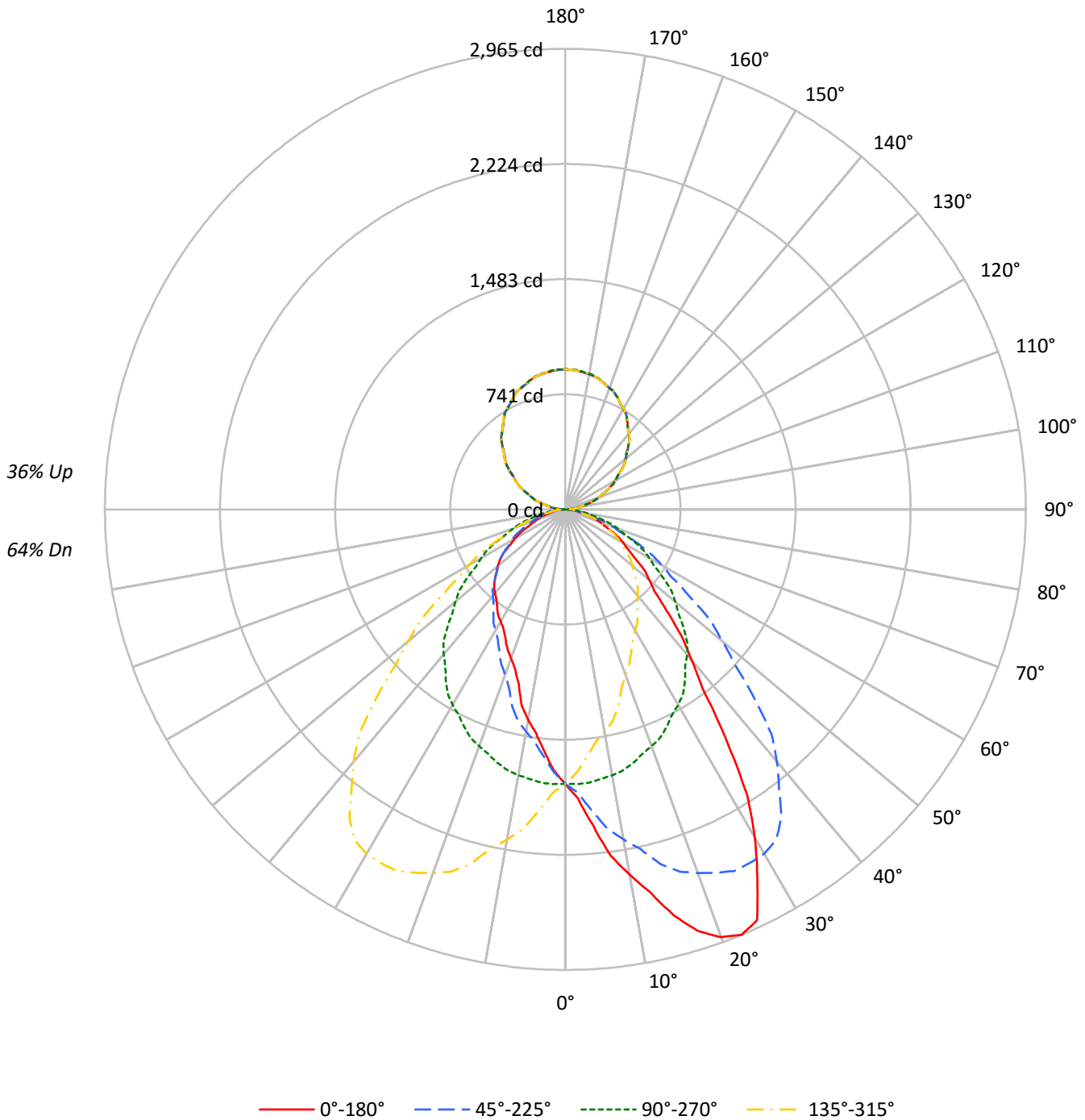
Input Watts (W): 60.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	64				
1	102	97	94	90	95	92	88	85	81	78	76	71	69	68	62	61	60	55				
2	93	86	80	75	87	81	76	71	72	68	64	63	60	57	55	53	51	47				
3	85	76	69	63	80	72	65	60	64	59	55	56	52	49	49	47	44	41				
4	78	68	60	54	73	64	57	51	57	51	47	51	46	43	45	41	38	35				
5	72	61	52	47	68	57	50	45	51	45	41	46	41	37	40	37	34	31				
6	67	55	46	41	62	52	44	39	46	40	36	41	37	33	37	33	30	27				
7	62	49	42	36	58	47	40	35	42	36	32	38	33	29	34	30	27	24				
8	57	45	37	32	54	43	36	31	39	33	29	35	30	26	31	27	24	22				
9	54	41	34	29	50	39	32	28	36	30	26	32	27	24	29	25	22	20				
10	50	38	31	26	47	36	30	25	33	27	23	30	25	22	27	23	20	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	2.5
10°-20°	516.5	7.4
20°-30°	807.8	11.6
30°-40°	898.0	12.9
40°-50°	796.7	11.4
50°-60°	620.8	8.9
60°-70°	406.5	5.8
70°-80°	199.9	2.9
80°-90°	52.0	0.7
90°-100°	59.5	0.9
100°-110°	176.1	2.5
110°-120°	298.9	4.3
120°-130°	394.2	5.7
130°-140°	442.7	6.4
140°-150°	435.0	6.2
150°-160°	365.9	5.2
160°-170°	243.4	3.5
170°-180°	85.2	1.2
0°-30°	1495.5	21.5
0°-40°	2393.5	34.3
0°-60°	3811.0	54.7
0°-90°	4469.4	64.1
90°-120°	534.5	7.7
90°-150°	1806.3	25.9
90°-180°	2501.0	35.9
0°-180°	6970.2	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	41
90°	21	2	21	2	21	12
95°	55	42	55	42	55	57
105°	170	162	170	162	170	179
115°	301	304	301	304	301	298
125°	439	443	439	443	439	392
135°	572	571	572	571	572	441
145°	694	694	694	694	694	435
155°	794	795	794	795	794	366
165°	863	865	863	865	863	243
175°	896	900	896	900	896	85
180°	901	901	901	901	901	



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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°	16.7	16.1	16.6	16.5	17.0	16.3	16.8	17.7	16.3	16.8	16.5
90°	21.0	20.6	20.3	20.0	19.7	19.1	18.1	17.2	16.2	15.3	14.1
92.5°	30.9	30.8	30.6	30.4	30.2	29.9	29.2	28.7	28.2	27.6	26.8
95°	55.1	55.1	55.1	55.1	55.1	54.8	54.4	53.9	53.4	53.0	51.9
97.5°	86.3	86.3	86.3	86.3	86.3	86.1	85.4	84.9	84.4	83.8	82.5
100°	108.1	108.1	108.1	108.1	108.1	107.9	107.6	107.3	107.0	106.6	105.2
102.5°	132.6	132.5	132.3	132.2	132.1	131.8	131.3	131.0	130.5	130.1	128.9
105°	170.1	169.6	169.2	168.7	168.3	167.7	167.3	166.8	166.4	165.9	165.3
107.5°	206.6	206.7	206.7	206.7	206.8	206.5	206.1	205.7	205.3	204.8	204.7
110°	232.8	232.4	231.9	231.5	231.0	230.9	231.2	231.5	231.8	232.1	232.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	259.6	259.5	259.4	259.3	259.2	259.2	259.3	259.3	259.4	259.5	259.8
115°	301.1	301.3	301.5	301.7	301.8	301.9	302.1	302.2	302.4	302.6	302.8
117.5°	340.7	341.1	341.3	341.7	342.0	342.4	343.0	343.5	344.0	344.6	344.7
120°	370.9	370.6	370.2	370.0	369.6	369.9	370.6	371.4	372.2	373.0	373.4
122.5°	396.0	396.5	397.1	397.6	398.2	398.8	399.3	399.8	400.3	400.8	401.1
125°	439.2	439.5	439.8	440.1	440.4	440.8	441.0	441.4	441.7	442.0	442.1
127.5°	479.2	479.5	479.7	479.9	480.2	480.5	480.8	481.1	481.4	481.7	482.0
130°	505.4	506.0	506.7	507.3	507.9	508.4	508.6	509.0	509.3	509.6	509.6
132.5°	533.3	533.5	533.8	534.0	534.3	534.6	534.8	535.2	535.5	535.8	535.9
135°	571.7	572.1	572.6	573.0	573.5	573.9	574.2	574.5	574.8	575.2	575.2
137.5°	612.0	611.8	611.7	611.6	611.5	611.7	612.2	612.5	613.0	613.3	613.1
140°	636.5	636.6	636.8	636.9	637.1	637.2	637.4	637.6	637.8	637.8	637.8
142.5°	661.0	661.0	661.1	661.1	661.1	661.2	661.2	661.2	661.3	661.3	661.4
145°	694.4	694.8	695.3	695.7	696.2	696.5	696.7	696.8	697.0	697.1	697.0
147.5°	728.1	728.3	728.3	728.5	728.7	728.8	729.0	729.1	729.2	729.3	729.4
150°	748.7	748.9	749.0	749.2	749.3	749.4	749.4	749.4	749.4	749.4	749.4
152.5°	767.7	768.1	768.5	768.9	769.3	769.3	768.9	768.6	768.2	767.9	767.7
155°	794.1	794.6	795.2	795.9	796.5	796.5	795.9	795.2	794.6	794.1	794.2
157.5°	817.6	818.1	818.7	819.2	819.7	819.7	819.3	818.8	818.3	817.9	817.9
160°	831.0	831.8	832.5	833.3	834.1	834.2	833.7	833.3	832.9	832.4	832.5
162.5°	844.9	845.7	846.5	847.2	848.0	848.0	847.1	846.3	845.5	844.6	844.8
165°	863.1	863.6	864.2	864.9	865.5	865.4	864.4	863.5	862.6	861.7	861.9
167.5°	876.0	877.0	877.9	878.9	879.9	879.9	879.0	878.0	877.1	876.1	876.1
170°	883.2	884.3	885.5	886.5	887.6	887.7	886.7	885.8	884.8	884.0	883.8
172.5°	889.4	890.5	891.5	892.7	893.8	893.8	892.7	891.6	890.6	889.6	889.5
175°	895.8	896.9	898.0	899.0	900.2	900.2	899.0	898.0	896.9	895.8	896.0
177.5°	899.1	900.2	901.2	902.1	903.1	903.2	902.3	901.4	900.5	899.7	899.7
180°	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3



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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°	16.2	15.4	16.3	16.1	16.2	18.2	19.5	19.8	18.5	17.0	15.7
90°	12.8	11.6	10.3	8.9	7.2	5.5	3.8	2.1	3.8	5.5	7.2
92.5°	25.9	25.0	24.2	22.7	20.8	18.8	16.9	14.9	16.9	18.8	20.8
95°	50.8	49.8	48.7	47.4	46.0	44.6	43.2	41.8	43.2	44.6	46.0
97.5°	81.2	80.0	78.7	77.5	76.4	75.3	74.2	73.0	74.2	75.3	76.4
100°	103.9	102.5	101.1	100.0	99.4	98.8	98.2	97.6	98.2	98.8	99.4
102.5°	127.5	126.3	125.0	124.2	124.0	123.8	123.5	123.2	123.5	123.8	124.0
105°	164.7	164.1	163.5	163.1	162.9	162.7	162.6	162.5	162.6	162.7	162.9
107.5°	204.6	204.6	204.5	204.3	204.1	203.9	203.8	203.6	203.8	203.9	204.1
110°	232.5	232.6	232.7	232.6	232.4	232.0	231.8	231.5	231.8	232.0	232.4





TEST NUMBER: P332998-940

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	260.0	260.3	260.6	260.7	260.6	260.6	260.5	260.5	260.5	260.6	260.6
115°	303.2	303.4	303.8	304.0	304.0	304.0	304.0	304.0	304.0	304.0	304.0
117.5°	344.9	345.2	345.4	345.4	345.3	345.2	345.1	344.9	345.1	345.2	345.3
120°	373.9	374.3	374.8	374.8	374.2	373.5	372.9	372.3	372.9	373.5	374.2
122.5°	401.3	401.5	401.7	401.7	401.4	401.2	400.9	400.7	400.9	401.2	401.4
125°	442.3	442.5	442.6	442.6	442.6	442.6	442.6	442.6	442.6	442.6	442.6
127.5°	482.2	482.4	482.7	482.6	482.1	481.7	481.2	480.7	481.2	481.7	482.1
130°	509.6	509.6	509.6	509.3	508.9	508.5	508.0	507.5	508.0	508.5	508.9
132.5°	536.1	536.2	536.3	536.2	535.8	535.6	535.2	534.8	535.2	535.6	535.8
135°	575.2	575.2	575.2	574.7	573.7	572.8	571.9	571.0	571.9	572.8	573.7
137.5°	612.9	612.6	612.3	612.0	611.5	611.1	610.7	610.3	610.7	611.1	611.5
140°	637.8	637.8	637.8	637.8	637.4	637.1	636.8	636.5	636.8	637.1	637.4
142.5°	661.6	661.6	661.8	661.7	661.4	661.1	660.8	660.5	660.8	661.1	661.4
145°	696.8	696.7	696.5	696.2	695.5	694.9	694.3	693.7	694.3	694.9	695.5
147.5°	729.6	729.7	729.9	729.5	728.8	728.0	727.3	726.6	727.3	728.0	728.8
150°	749.4	749.4	749.4	749.1	748.5	747.9	747.3	746.6	747.3	747.9	748.5
152.5°	767.6	767.4	767.3	767.0	766.7	766.3	766.0	765.6	766.0	766.3	766.7
155°	794.3	794.5	794.6	794.7	794.7	794.7	794.7	794.7	794.7	794.7	794.7
157.5°	818.0	818.0	818.0	818.1	818.4	818.7	818.9	819.3	818.9	818.7	818.4
160°	832.7	832.9	832.9	833.1	833.3	833.5	833.6	833.7	833.6	833.5	833.3
162.5°	845.0	845.1	845.3	845.5	846.0	846.3	846.8	847.1	846.8	846.3	846.0
165°	862.3	862.6	862.9	863.3	863.7	864.2	864.7	865.1	864.7	864.2	863.7
167.5°	876.1	876.0	876.0	876.4	877.0	877.6	878.2	879.0	878.2	877.6	877.0
170°	883.7	883.5	883.3	883.7	884.4	885.2	886.0	886.7	886.0	885.2	884.4
172.5°	889.5	889.5	889.4	889.7	890.4	891.0	891.7	892.3	891.7	891.0	890.4
175°	896.1	896.3	896.4	896.9	897.7	898.4	899.2	900.0	899.2	898.4	897.7
177.5°	899.7	899.7	899.7	900.0	900.6	901.3	901.9	902.5	901.9	901.3	900.6
180°	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3



TEST NUMBER: P332998-940

CATALOG NUMBER: SA4XXRDIP-C1195D810U940-4F0-1E-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°	16.1	15.8	16.0	15.1	16.0	16.1	15.8	16.0	16.8	15.8	15.9
90°	8.9	10.3	11.6	12.8	14.1	15.3	16.2	17.2	18.1	19.1	19.7
92.5°	22.7	24.2	25.0	25.9	26.8	27.6	28.2	28.7	29.2	29.9	30.2
95°	47.4	48.7	49.8	50.8	51.9	53.0	53.4	53.9	54.4	54.8	55.1
97.5°	77.5	78.7	80.0	81.2	82.5	83.8	84.4	84.9	85.4	86.1	86.3
100°	100.0	101.1	102.5	103.9	105.2	106.6	107.0	107.3	107.6	107.9	108.1
102.5°	124.2	125.0	126.3	127.5	128.9	130.1	130.5	131.0	131.3	131.8	132.1
105°	163.1	163.5	164.1	164.7	165.3	165.9	166.4	166.8	167.3	167.7	168.3
107.5°	204.3	204.5	204.6	204.6	204.7	204.8	205.3	205.7	206.1	206.5	206.8
110°	232.6	232.7	232.6	232.5	232.3	232.1	231.8	231.5	231.2	230.9	231.0



TEST NUMBER: P332998-940

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	260.7	260.6	260.3	260.0	259.8	259.5	259.4	259.3	259.3	259.2	259.2
115°	304.0	303.8	303.4	303.2	302.8	302.6	302.4	302.2	302.1	301.9	301.8
117.5°	345.4	345.4	345.2	344.9	344.7	344.6	344.0	343.5	343.0	342.4	342.0
120°	374.8	374.8	374.3	373.9	373.4	373.0	372.2	371.4	370.6	369.9	369.6
122.5°	401.7	401.7	401.5	401.3	401.1	400.8	400.3	399.8	399.3	398.8	398.2
125°	442.6	442.6	442.5	442.3	442.1	442.0	441.7	441.4	441.0	440.8	440.4
127.5°	482.6	482.7	482.4	482.2	482.0	481.7	481.4	481.1	480.8	480.5	480.2
130°	509.3	509.6	509.6	509.6	509.6	509.6	509.3	509.0	508.6	508.4	507.9
132.5°	536.2	536.3	536.2	536.1	535.9	535.8	535.5	535.2	534.8	534.6	534.3
135°	574.7	575.2	575.2	575.2	575.2	575.2	574.8	574.5	574.2	573.9	573.5
137.5°	612.0	612.3	612.6	612.9	613.1	613.3	613.0	612.5	612.2	611.7	611.5
140°	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.6	637.4	637.2	637.1
142.5°	661.7	661.8	661.6	661.6	661.4	661.3	661.3	661.2	661.2	661.2	661.1
145°	696.2	696.5	696.7	696.8	697.0	697.1	697.0	696.8	696.7	696.5	696.2
147.5°	729.5	729.9	729.7	729.6	729.4	729.3	729.2	729.1	729.0	728.8	728.7
150°	749.1	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.3
152.5°	767.0	767.3	767.4	767.6	767.7	767.9	768.2	768.6	768.9	769.3	769.3
155°	794.7	794.6	794.5	794.3	794.2	794.1	794.6	795.2	795.9	796.5	796.5
157.5°	818.1	818.0	818.0	818.0	817.9	817.9	818.3	818.8	819.3	819.7	819.7
160°	833.1	832.9	832.9	832.7	832.5	832.4	832.9	833.3	833.7	834.2	834.1
162.5°	845.5	845.3	845.1	845.0	844.8	844.6	845.5	846.3	847.1	848.0	848.0
165°	863.3	862.9	862.6	862.3	861.9	861.7	862.6	863.5	864.4	865.4	865.5
167.5°	876.4	876.0	876.0	876.1	876.1	876.1	877.1	878.0	879.0	879.9	879.9
170°	883.7	883.3	883.5	883.7	883.8	884.0	884.8	885.8	886.7	887.7	887.6
172.5°	889.7	889.4	889.5	889.5	889.5	889.6	890.6	891.6	892.7	893.8	893.8
175°	896.9	896.4	896.3	896.1	896.0	895.8	896.9	898.0	899.0	900.2	900.2
177.5°	900.0	899.7	899.7	899.7	899.7	899.7	900.5	901.4	902.3	903.2	903.1
180°	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3



TEST NUMBER: P332998-940

CATALOG NUMBER: SA4XXRDIP-C1195D810U940-4F0-1E-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°	17.1	16.6	16.1	16.7	16.1	16.6	17.1	15.9	15.8	16.8	16.0
90°	20.0	20.3	20.6	21.0	20.6	20.3	20.0	19.7	19.1	18.1	17.2
92.5°	30.4	30.6	30.8	30.9	30.8	30.6	30.4	30.2	29.9	29.2	28.7
95°	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	54.8	54.4	53.9
97.5°	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.1	85.4	84.9
100°	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	107.9	107.6	107.3
102.5°	132.2	132.3	132.5	132.6	132.5	132.3	132.2	132.1	131.8	131.3	131.0
105°	168.7	169.2	169.6	170.1	169.6	169.2	168.7	168.3	167.7	167.3	166.8
107.5°	206.7	206.7	206.7	206.6	206.7	206.7	206.7	206.8	206.5	206.1	205.7
110°	231.5	231.9	232.4	232.8	232.4	231.9	231.5	231.0	230.9	231.2	231.5



TEST NUMBER: P332998-940

CATALOG NUMBER: SA4XXRDIP-C1195D810U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	259.3	259.4	259.5	259.6	259.5	259.4	259.3	259.2	259.2	259.3	259.3
115°	301.7	301.5	301.3	301.1	301.3	301.5	301.7	301.8	301.9	302.1	302.2
117.5°	341.7	341.3	341.1	340.7	341.1	341.3	341.7	342.0	342.4	343.0	343.5
120°	370.0	370.2	370.6	370.9	370.6	370.2	370.0	369.6	369.9	370.6	371.4
122.5°	397.6	397.1	396.5	396.0	396.5	397.1	397.6	398.2	398.8	399.3	399.8
125°	440.1	439.8	439.5	439.2	439.5	439.8	440.1	440.4	440.8	441.0	441.4
127.5°	479.9	479.7	479.5	479.2	479.5	479.7	479.9	480.2	480.5	480.8	481.1
130°	507.3	506.7	506.0	505.4	506.0	506.7	507.3	507.9	508.4	508.6	509.0
132.5°	534.0	533.8	533.5	533.3	533.5	533.8	534.0	534.3	534.6	534.8	535.2
135°	573.0	572.6	572.1	571.7	572.1	572.6	573.0	573.5	573.9	574.2	574.5
137.5°	611.6	611.7	611.8	612.0	611.8	611.7	611.6	611.5	611.7	612.2	612.5
140°	636.9	636.8	636.6	636.5	636.6	636.8	636.9	637.1	637.2	637.4	637.6
142.5°	661.1	661.1	661.0	661.0	661.0	661.1	661.1	661.1	661.2	661.2	661.2
145°	695.7	695.3	694.8	694.4	694.8	695.3	695.7	696.2	696.5	696.7	696.8
147.5°	728.5	728.3	728.3	728.1	728.3	728.3	728.5	728.7	728.8	729.0	729.1
150°	749.2	749.0	748.9	748.7	748.9	749.0	749.2	749.3	749.4	749.4	749.4
152.5°	768.9	768.5	768.1	767.7	768.1	768.5	768.9	769.3	769.3	768.9	768.6
155°	795.9	795.2	794.6	794.1	794.6	795.2	795.9	796.5	796.5	795.9	795.2
157.5°	819.2	818.7	818.1	817.6	818.1	818.7	819.2	819.7	819.7	819.3	818.8
160°	833.3	832.5	831.8	831.0	831.8	832.5	833.3	834.1	834.2	833.7	833.3
162.5°	847.2	846.5	845.7	844.9	845.7	846.5	847.2	848.0	848.0	847.1	846.3
165°	864.9	864.2	863.6	863.1	863.6	864.2	864.9	865.5	865.4	864.4	863.5
167.5°	878.9	877.9	877.0	876.0	877.0	877.9	878.9	879.9	879.9	879.0	878.0
170°	886.5	885.5	884.3	883.2	884.3	885.5	886.5	887.6	887.7	886.7	885.8
172.5°	892.7	891.5	890.5	889.4	890.5	891.5	892.7	893.8	893.8	892.7	891.6
175°	899.0	898.0	896.9	895.8	896.9	898.0	899.0	900.2	900.2	899.0	898.0
177.5°	902.1	901.2	900.2	899.1	900.2	901.2	902.1	903.1	903.2	902.3	901.4
180°	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3



TEST NUMBER: P332998-940

CATALOG NUMBER: SA4XXRDIP-C1195D810U940-4F0-1E-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°	15.8	16.1	16.0	15.1	16.0	15.8	16.1	15.7	17.0	18.5	19.8
90°	16.2	15.3	14.1	12.8	11.6	10.3	8.9	7.2	5.5	3.8	2.1
92.5°	28.2	27.6	26.8	25.9	25.0	24.2	22.7	20.8	18.8	16.9	14.9
95°	53.4	53.0	51.9	50.8	49.8	48.7	47.4	46.0	44.6	43.2	41.8
97.5°	84.4	83.8	82.5	81.2	80.0	78.7	77.5	76.4	75.3	74.2	73.0
100°	107.0	106.6	105.2	103.9	102.5	101.1	100.0	99.4	98.8	98.2	97.6
102.5°	130.5	130.1	128.9	127.5	126.3	125.0	124.2	124.0	123.8	123.5	123.2
105°	166.4	165.9	165.3	164.7	164.1	163.5	163.1	162.9	162.7	162.6	162.5
107.5°	205.3	204.8	204.7	204.6	204.6	204.5	204.3	204.1	203.9	203.8	203.6
110°	231.8	232.1	232.3	232.5	232.6	232.7	232.6	232.4	232.0	231.8	231.5



TEST NUMBER: P332998-940

CATALOG NUMBER: SA4XXRDIP-C1195D810U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	259.4	259.5	259.8	260.0	260.3	260.6	260.7	260.6	260.6	260.5	260.5
115°	302.4	302.6	302.8	303.2	303.4	303.8	304.0	304.0	304.0	304.0	304.0
117.5°	344.0	344.6	344.7	344.9	345.2	345.4	345.4	345.3	345.2	345.1	344.9
120°	372.2	373.0	373.4	373.9	374.3	374.8	374.8	374.2	373.5	372.9	372.3
122.5°	400.3	400.8	401.1	401.3	401.5	401.7	401.7	401.4	401.2	400.9	400.7
125°	441.7	442.0	442.1	442.3	442.5	442.6	442.6	442.6	442.6	442.6	442.6
127.5°	481.4	481.7	482.0	482.2	482.4	482.7	482.6	482.1	481.7	481.2	480.7
130°	509.3	509.6	509.6	509.6	509.6	509.6	509.3	508.9	508.5	508.0	507.5
132.5°	535.5	535.8	535.9	536.1	536.2	536.3	536.2	535.8	535.6	535.2	534.8
135°	574.8	575.2	575.2	575.2	575.2	575.2	574.7	573.7	572.8	571.9	571.0
137.5°	613.0	613.3	613.1	612.9	612.6	612.3	612.0	611.5	611.1	610.7	610.3
140°	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.4	637.1	636.8	636.5
142.5°	661.3	661.3	661.4	661.6	661.6	661.8	661.7	661.4	661.1	660.8	660.5
145°	697.0	697.1	697.0	696.8	696.7	696.5	696.2	695.5	694.9	694.3	693.7
147.5°	729.2	729.3	729.4	729.6	729.7	729.9	729.5	728.8	728.0	727.3	726.6
150°	749.4	749.4	749.4	749.4	749.4	749.4	749.1	748.5	747.9	747.3	746.6
152.5°	768.2	767.9	767.7	767.6	767.4	767.3	767.0	766.7	766.3	766.0	765.6
155°	794.6	794.1	794.2	794.3	794.5	794.6	794.7	794.7	794.7	794.7	794.7
157.5°	818.3	817.9	817.9	818.0	818.0	818.0	818.1	818.4	818.7	818.9	819.3
160°	832.9	832.4	832.5	832.7	832.9	832.9	833.1	833.3	833.5	833.6	833.7
162.5°	845.5	844.6	844.8	845.0	845.1	845.3	845.5	846.0	846.3	846.8	847.1
165°	862.6	861.7	861.9	862.3	862.6	862.9	863.3	863.7	864.2	864.7	865.1
167.5°	877.1	876.1	876.1	876.1	876.0	876.0	876.4	877.0	877.6	878.2	879.0
170°	884.8	884.0	883.8	883.7	883.5	883.3	883.7	884.4	885.2	886.0	886.7
172.5°	890.6	889.6	889.5	889.5	889.5	889.4	889.7	890.4	891.0	891.7	892.3
175°	896.9	895.8	896.0	896.1	896.3	896.4	896.9	897.7	898.4	899.2	900.0
177.5°	900.5	899.7	899.7	899.7	899.7	899.7	900.0	900.6	901.3	901.9	902.5
180°	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3



TEST NUMBER: P332998-940

CATALOG NUMBER: SA4XXRDIP-C1195D810U940-4F0-1E-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°	19.5	18.2	16.2	16.1	16.3	15.4	16.2	16.5	16.8	16.3	17.7
90°	3.8	5.5	7.2	8.9	10.3	11.6	12.8	14.1	15.3	16.2	17.2
92.5°	16.9	18.8	20.8	22.7	24.2	25.0	25.9	26.8	27.6	28.2	28.7
95°	43.2	44.6	46.0	47.4	48.7	49.8	50.8	51.9	53.0	53.4	53.9
97.5°	74.2	75.3	76.4	77.5	78.7	80.0	81.2	82.5	83.8	84.4	84.9
100°	98.2	98.8	99.4	100.0	101.1	102.5	103.9	105.2	106.6	107.0	107.3
102.5°	123.5	123.8	124.0	124.2	125.0	126.3	127.5	128.9	130.1	130.5	131.0
105°	162.6	162.7	162.9	163.1	163.5	164.1	164.7	165.3	165.9	166.4	166.8
107.5°	203.8	203.9	204.1	204.3	204.5	204.6	204.6	204.7	204.8	205.3	205.7
110°	231.8	232.0	232.4	232.6	232.7	232.6	232.5	232.3	232.1	231.8	231.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	260.5	260.6	260.6	260.7	260.6	260.3	260.0	259.8	259.5	259.4	259.3
115°	304.0	304.0	304.0	304.0	303.8	303.4	303.2	302.8	302.6	302.4	302.2
117.5°	345.1	345.2	345.3	345.4	345.4	345.2	344.9	344.7	344.6	344.0	343.5
120°	372.9	373.5	374.2	374.8	374.8	374.3	373.9	373.4	373.0	372.2	371.4
122.5°	400.9	401.2	401.4	401.7	401.7	401.5	401.3	401.1	400.8	400.3	399.8
125°	442.6	442.6	442.6	442.6	442.6	442.5	442.3	442.1	442.0	441.7	441.4
127.5°	481.2	481.7	482.1	482.6	482.7	482.4	482.2	482.0	481.7	481.4	481.1
130°	508.0	508.5	508.9	509.3	509.6	509.6	509.6	509.6	509.6	509.3	509.0
132.5°	535.2	535.6	535.8	536.2	536.3	536.2	536.1	535.9	535.8	535.5	535.2
135°	571.9	572.8	573.7	574.7	575.2	575.2	575.2	575.2	575.2	574.8	574.5
137.5°	610.7	611.1	611.5	612.0	612.3	612.6	612.9	613.1	613.3	613.0	612.5
140°	636.8	637.1	637.4	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.6
142.5°	660.8	661.1	661.4	661.7	661.8	661.6	661.6	661.4	661.3	661.3	661.2
145°	694.3	694.9	695.5	696.2	696.5	696.7	696.8	697.0	697.1	697.0	696.8
147.5°	727.3	728.0	728.8	729.5	729.9	729.7	729.6	729.4	729.3	729.2	729.1
150°	747.3	747.9	748.5	749.1	749.4	749.4	749.4	749.4	749.4	749.4	749.4
152.5°	766.0	766.3	766.7	767.0	767.3	767.4	767.6	767.7	767.9	768.2	768.6
155°	794.7	794.7	794.7	794.7	794.6	794.5	794.3	794.2	794.1	794.6	795.2
157.5°	818.9	818.7	818.4	818.1	818.0	818.0	818.0	817.9	817.9	818.3	818.8
160°	833.6	833.5	833.3	833.1	832.9	832.9	832.7	832.5	832.4	832.9	833.3
162.5°	846.8	846.3	846.0	845.5	845.3	845.1	845.0	844.8	844.6	845.5	846.3
165°	864.7	864.2	863.7	863.3	862.9	862.6	862.3	861.9	861.7	862.6	863.5
167.5°	878.2	877.6	877.0	876.4	876.0	876.0	876.1	876.1	876.1	877.1	878.0
170°	886.0	885.2	884.4	883.7	883.3	883.5	883.7	883.8	884.0	884.8	885.8
172.5°	891.7	891.0	890.4	889.7	889.4	889.5	889.5	889.5	889.6	890.6	891.6
175°	899.2	898.4	897.7	896.9	896.4	896.3	896.1	896.0	895.8	896.9	898.0
177.5°	901.9	901.3	900.6	900.0	899.7	899.7	899.7	899.7	899.7	900.5	901.4
180°	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3



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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°	16.8	16.3	17.0	16.5	16.6	16.1	16.7
90°	18.1	19.1	19.7	20.0	20.3	20.6	21.0
92.5°	29.2	29.9	30.2	30.4	30.6	30.8	30.9
95°	54.4	54.8	55.1	55.1	55.1	55.1	55.1
97.5°	85.4	86.1	86.3	86.3	86.3	86.3	86.3
100°	107.6	107.9	108.1	108.1	108.1	108.1	108.1
102.5°	131.3	131.8	132.1	132.2	132.3	132.5	132.6
105°	167.3	167.7	168.3	168.7	169.2	169.6	170.1
107.5°	206.1	206.5	206.8	206.7	206.7	206.7	206.6
110°	231.2	230.9	231.0	231.5	231.9	232.4	232.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	259.3	259.2	259.2	259.3	259.4	259.5	259.6
115°	302.1	301.9	301.8	301.7	301.5	301.3	301.1
117.5°	343.0	342.4	342.0	341.7	341.3	341.1	340.7
120°	370.6	369.9	369.6	370.0	370.2	370.6	370.9
122.5°	399.3	398.8	398.2	397.6	397.1	396.5	396.0
125°	441.0	440.8	440.4	440.1	439.8	439.5	439.2
127.5°	480.8	480.5	480.2	479.9	479.7	479.5	479.2
130°	508.6	508.4	507.9	507.3	506.7	506.0	505.4
132.5°	534.8	534.6	534.3	534.0	533.8	533.5	533.3
135°	574.2	573.9	573.5	573.0	572.6	572.1	571.7
137.5°	612.2	611.7	611.5	611.6	611.7	611.8	612.0
140°	637.4	637.2	637.1	636.9	636.8	636.6	636.5
142.5°	661.2	661.2	661.1	661.1	661.1	661.0	661.0
145°	696.7	696.5	696.2	695.7	695.3	694.8	694.4
147.5°	729.0	728.8	728.7	728.5	728.3	728.3	728.1
150°	749.4	749.4	749.3	749.2	749.0	748.9	748.7
152.5°	768.9	769.3	769.3	768.9	768.5	768.1	767.7
155°	795.9	796.5	796.5	795.9	795.2	794.6	794.1
157.5°	819.3	819.7	819.7	819.2	818.7	818.1	817.6
160°	833.7	834.2	834.1	833.3	832.5	831.8	831.0
162.5°	847.1	848.0	848.0	847.2	846.5	845.7	844.9
165°	864.4	865.4	865.5	864.9	864.2	863.6	863.1
167.5°	879.0	879.9	879.9	878.9	877.9	877.0	876.0
170°	886.7	887.7	887.6	886.5	885.5	884.3	883.2
172.5°	892.7	893.8	893.8	892.7	891.5	890.5	889.4
175°	899.0	900.2	900.2	899.0	898.0	896.9	895.8
177.5°	902.3	903.2	903.1	902.1	901.2	900.2	899.1
180°	901.3	901.3	901.3	901.3	901.3	901.3	901.3

(END OF REPORT)