

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: P332991-940

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

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332991-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
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-A  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 590 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

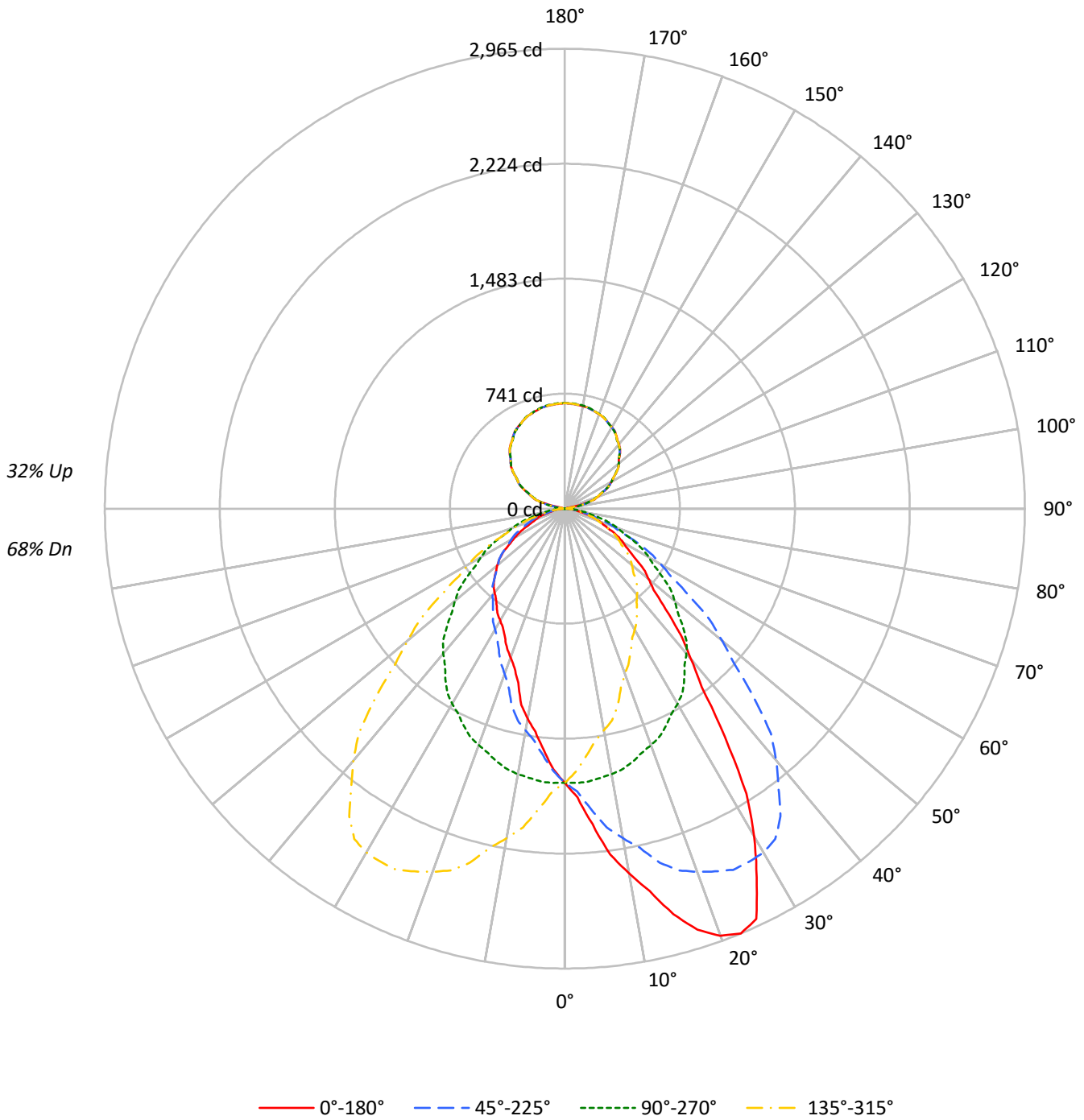
Lumens per Lamp: N/A  
Luminaire Lumens: 6572.3 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: Semi-Direct

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	111	111	111	111	105	105	105	105	93	93	93	83	83	83	73	73	73	68				
1	102	98	95	91	97	93	90	87	83	80	78	74	72	70	65	64	63	59				
2	94	87	81	75	88	82	77	72	73	69	66	65	62	60	58	56	54	50				
3	86	77	69	64	81	73	66	61	65	60	56	58	54	51	52	49	46	43				
4	79	68	60	54	74	65	58	52	58	53	48	52	48	44	47	43	40	37				
5	73	61	53	47	69	58	51	45	53	47	42	47	43	39	43	39	36	33				
6	67	55	47	41	63	53	45	40	48	42	37	43	38	34	39	35	32	29				
7	62	50	42	37	59	48	40	35	43	37	33	39	34	31	36	31	28	26				
8	58	46	38	33	55	44	36	32	40	34	29	36	31	27	33	29	25	23				
9	54	42	34	29	51	40	33	28	37	31	27	33	28	25	30	26	23	21				
10	51	39	31	26	48	37	30	26	34	28	24	31	26	23	28	24	21	19				

**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	2.6
10°-20°	516.5	7.9
20°-30°	807.8	12.3
30°-40°	898.0	13.7
40°-50°	796.7	12.1
50°-60°	620.8	9.4
60°-70°	406.5	6.2
70°-80°	199.9	3.0
80°-90°	51.3	0.8
90°-100°	23.3	0.4
100°-110°	148.3	2.3
110°-120°	283.7	4.3
120°-130°	360.1	5.5
130°-140°	385.3	5.9
140°-150°	360.3	5.5
150°-160°	290.6	4.4
160°-170°	187.4	2.9
170°-180°	64.6	1.0
0°-30°	1495.5	22.8
0°-40°	2393.5	36.4
0°-60°	3811.0	58.0
0°-90°	4468.7	68.0
90°-120°	455.3	6.9
90°-150°	1561.1	23.8
90°-180°	2104.0	32.0
0°-180°	6572.3	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	8
95°	15	28	15	28	15	12
105°	145	153	145	153	145	126
115°	288	286	288	286	288	285
125°	405	402	405	402	405	361
135°	502	498	502	498	502	386
145°	578	575	578	575	578	361
155°	630	630	630	630	630	290
165°	662	665	662	665	662	187
175°	676	680	676	680	676	64
180°	680	680	680	680	680	



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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°	14.0	14.0	13.9	13.9	13.8	13.5	12.8	12.1	11.5	10.8	9.9
95°	14.7	14.6	14.5	14.4	14.3	13.9	13.2	12.6	11.9	11.1	11.1
97.5°	14.3	14.1	14.0	13.9	13.8	13.7	13.6	13.6	13.5	13.5	26.0
100°	14.3	14.1	14.0	13.9	13.8	14.7	16.6	18.5	20.4	22.4	38.0
102.5°	14.6	14.6	14.6	14.6	14.5	24.9	45.7	66.3	87.1	107.8	109.9
105°	145.0	149.0	153.1	157.2	161.2	162.7	161.8	160.8	159.7	158.7	158.1
107.5°	202.1	201.6	201.2	200.7	200.3	199.8	199.4	198.9	198.4	197.9	197.1
110°	226.9	226.5	226.1	225.9	225.5	225.2	225.0	224.8	224.5	224.4	223.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	251.6	251.3	250.8	250.4	249.9	249.8	249.9	249.9	249.9	249.9	249.7
115°	287.9	287.9	287.9	287.9	287.9	287.8	287.6	287.3	287.1	286.9	287.0
117.5°	324.8	324.8	324.9	324.9	324.9	324.9	325.0	325.0	325.1	325.1	324.9
120°	347.9	348.1	348.4	348.6	348.8	348.8	348.6	348.4	348.1	347.9	348.0
122.5°	370.7	371.0	371.1	371.4	371.6	371.7	371.5	371.4	371.2	371.1	371.0
125°	404.9	404.7	404.7	404.6	404.5	404.2	403.9	403.5	403.2	402.9	403.1
127.5°	434.9	435.0	435.1	435.2	435.2	435.3	435.4	435.5	435.5	435.6	435.1
130°	455.2	455.2	455.2	455.2	455.2	455.2	455.0	455.0	454.9	454.8	454.4
132.5°	473.9	474.0	474.1	474.2	474.3	474.3	474.2	474.1	473.9	473.9	473.4
135°	502.0	501.9	501.6	501.3	501.1	500.9	500.7	500.4	500.2	500.0	499.5
137.5°	526.0	526.1	526.2	526.3	526.3	526.2	526.0	525.8	525.5	525.2	524.8
140°	542.7	542.6	542.5	542.4	542.2	542.1	541.7	541.4	541.0	540.7	540.5
142.5°	556.6	556.5	556.5	556.5	556.5	556.3	556.1	555.8	555.6	555.4	555.2
145°	577.8	577.7	577.4	577.1	576.9	576.8	576.7	576.5	576.4	576.3	576.3
147.5°	595.4	595.3	595.2	595.1	594.9	594.9	594.8	594.7	594.6	594.5	594.6
150°	606.8	606.7	606.6	606.5	606.4	606.3	606.3	606.3	606.3	606.3	606.5
152.5°	616.6	616.6	616.7	616.8	616.9	616.8	616.6	616.4	616.3	616.1	616.3
155°	629.7	630.1	630.4	630.7	631.1	631.0	630.5	630.1	629.6	629.2	629.5
157.5°	640.7	641.3	641.9	642.5	643.0	643.0	642.5	641.9	641.3	640.7	641.1
160°	648.0	648.7	649.3	650.1	650.8	650.8	650.1	649.3	648.7	648.0	648.1
162.5°	653.7	654.5	655.2	656.0	656.8	656.8	656.1	655.5	654.8	654.2	654.2
165°	661.7	662.8	663.8	664.8	665.8	665.9	664.9	664.1	663.2	662.3	662.3
167.5°	667.8	668.9	670.0	671.2	672.3	672.3	671.4	670.4	669.4	668.3	668.4
170°	671.5	672.5	673.7	674.8	675.9	676.1	675.1	674.2	673.3	672.4	672.3
172.5°	673.4	674.7	675.9	677.2	678.3	678.5	677.6	676.7	675.8	674.8	674.8
175°	676.0	677.3	678.7	680.1	681.4	681.6	680.6	679.6	678.5	677.5	677.4
177.5°	677.6	678.7	679.8	680.9	682.0	682.2	681.4	680.7	680.0	679.2	679.0
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1



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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°	9.0	8.1	7.1	6.7	6.6	6.5	6.5	6.4	6.5	6.5	6.6
95°	11.0	10.9	10.7	12.6	16.4	20.3	24.2	28.0	24.2	20.3	16.4
97.5°	38.7	51.3	63.8	69.0	66.6	64.2	61.8	59.4	61.8	64.2	66.6
100°	53.6	69.2	84.8	91.6	89.5	87.5	85.4	83.4	85.4	87.5	89.5
102.5°	111.9	114.0	116.0	116.3	114.8	113.2	111.7	110.3	111.7	113.2	114.8
105°	157.6	157.0	156.4	155.8	155.2	154.4	153.8	153.1	153.8	154.4	155.2
107.5°	196.4	195.6	194.7	194.2	193.9	193.6	193.2	192.9	193.2	193.6	193.9
110°	222.9	222.3	221.6	221.1	220.8	220.4	220.1	219.7	220.1	220.4	220.8





TEST NUMBER: P332991-940

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	249.3	249.0	248.7	248.3	247.6	247.0	246.4	245.8	246.4	247.0	247.6
115°	287.1	287.2	287.3	287.2	286.9	286.5	286.2	285.9	286.2	286.5	286.9
117.5°	324.7	324.4	324.1	323.8	323.3	322.9	322.4	322.0	322.4	322.9	323.3
120°	348.1	348.3	348.4	348.2	347.8	347.3	346.9	346.4	346.9	347.3	347.8
122.5°	370.8	370.7	370.5	370.2	370.0	369.7	369.4	369.2	369.4	369.7	370.0
125°	403.3	403.5	403.8	403.7	403.2	402.8	402.3	401.8	402.3	402.8	403.2
127.5°	434.5	434.1	433.5	433.2	433.1	433.0	432.8	432.7	432.8	433.0	433.1
130°	454.1	453.7	453.3	453.2	453.1	452.9	452.8	452.7	452.8	452.9	453.1
132.5°	473.0	472.6	472.2	471.8	471.6	471.4	471.2	471.0	471.2	471.4	471.6
135°	499.1	498.6	498.2	498.0	498.1	498.3	498.4	498.5	498.4	498.3	498.1
137.5°	524.2	523.7	523.3	523.0	522.9	522.9	522.8	522.8	522.8	522.9	522.9
140°	540.3	540.0	539.8	539.6	539.3	539.1	538.9	538.7	538.9	539.1	539.3
142.5°	555.1	554.9	554.8	554.6	554.1	553.8	553.3	552.9	553.3	553.8	554.1
145°	576.3	576.3	576.3	576.1	575.8	575.4	575.2	574.8	575.2	575.4	575.8
147.5°	594.8	594.9	594.9	594.7	594.1	593.4	592.8	592.2	592.8	593.4	594.1
150°	606.5	606.6	606.8	606.6	606.2	605.7	605.2	604.8	605.2	605.7	606.2
152.5°	616.5	616.7	616.9	616.8	616.4	616.1	615.7	615.4	615.7	616.1	616.4
155°	629.9	630.3	630.5	630.7	630.5	630.4	630.4	630.3	630.4	630.4	630.5
157.5°	641.5	641.9	642.2	642.5	642.6	642.6	642.7	642.7	642.7	642.6	642.6
160°	648.3	648.4	648.5	648.7	649.1	649.3	649.7	650.1	649.7	649.3	649.1
162.5°	654.3	654.4	654.6	654.9	655.3	655.7	656.1	656.6	656.1	655.7	655.3
165°	662.3	662.3	662.3	662.5	663.1	663.7	664.2	664.8	664.2	663.7	663.1
167.5°	668.5	668.6	668.6	669.0	669.6	670.1	670.7	671.3	670.7	670.1	669.6
170°	672.2	672.1	672.0	672.3	673.0	673.6	674.3	675.0	674.3	673.6	673.0
172.5°	674.7	674.6	674.4	674.8	675.4	676.1	676.7	677.4	676.7	676.1	675.4
175°	677.3	677.2	677.1	677.3	678.1	678.7	679.4	680.1	679.4	678.7	678.1
177.5°	678.9	678.7	678.5	678.8	679.4	680.0	680.6	681.3	680.6	680.0	679.4
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1



TEST NUMBER: P332991-940

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

**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°	6.7	7.1	8.1	9.0	9.9	10.8	11.5	12.1	12.8	13.5	13.8
95°	12.6	10.7	10.9	11.0	11.1	11.1	11.9	12.6	13.2	13.9	14.3
97.5°	69.0	63.8	51.3	38.7	26.0	13.5	13.5	13.6	13.6	13.7	13.8
100°	91.6	84.8	69.2	53.6	38.0	22.4	20.4	18.5	16.6	14.7	13.8
102.5°	116.3	116.0	114.0	111.9	109.9	107.8	87.1	66.3	45.7	24.9	14.5
105°	155.8	156.4	157.0	157.6	158.1	158.7	159.7	160.8	161.8	162.7	161.2
107.5°	194.2	194.7	195.6	196.4	197.1	197.9	198.4	198.9	199.4	199.8	200.3
110°	221.1	221.6	222.3	222.9	223.6	224.4	224.5	224.8	225.0	225.2	225.5



TEST NUMBER: P332991-940

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

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	248.3	248.7	249.0	249.3	249.7	249.9	249.9	249.9	249.9	249.8	249.9
115°	287.2	287.3	287.2	287.1	287.0	286.9	287.1	287.3	287.6	287.8	287.9
117.5°	323.8	324.1	324.4	324.7	324.9	325.1	325.1	325.0	325.0	324.9	324.9
120°	348.2	348.4	348.3	348.1	348.0	347.9	348.1	348.4	348.6	348.8	348.8
122.5°	370.2	370.5	370.7	370.8	371.0	371.1	371.2	371.4	371.5	371.7	371.6
125°	403.7	403.8	403.5	403.3	403.1	402.9	403.2	403.5	403.9	404.2	404.5
127.5°	433.2	433.5	434.1	434.5	435.1	435.6	435.5	435.5	435.4	435.3	435.2
130°	453.2	453.3	453.7	454.1	454.4	454.8	454.9	455.0	455.0	455.2	455.2
132.5°	471.8	472.2	472.6	473.0	473.4	473.9	473.9	474.1	474.2	474.3	474.3
135°	498.0	498.2	498.6	499.1	499.5	500.0	500.2	500.4	500.7	500.9	501.1
137.5°	523.0	523.3	523.7	524.2	524.8	525.2	525.5	525.8	526.0	526.2	526.3
140°	539.6	539.8	540.0	540.3	540.5	540.7	541.0	541.4	541.7	542.1	542.2
142.5°	554.6	554.8	554.9	555.1	555.2	555.4	555.6	555.8	556.1	556.3	556.5
145°	576.1	576.3	576.3	576.3	576.3	576.3	576.4	576.5	576.7	576.8	576.9
147.5°	594.7	594.9	594.9	594.8	594.6	594.5	594.6	594.7	594.8	594.9	594.9
150°	606.6	606.8	606.6	606.5	606.5	606.3	606.3	606.3	606.3	606.3	606.4
152.5°	616.8	616.9	616.7	616.5	616.3	616.1	616.3	616.4	616.6	616.8	616.9
155°	630.7	630.5	630.3	629.9	629.5	629.2	629.6	630.1	630.5	631.0	631.1
157.5°	642.5	642.2	641.9	641.5	641.1	640.7	641.3	641.9	642.5	643.0	643.0
160°	648.7	648.5	648.4	648.3	648.1	648.0	648.7	649.3	650.1	650.8	650.8
162.5°	654.9	654.6	654.4	654.3	654.2	654.2	654.8	655.5	656.1	656.8	656.8
165°	662.5	662.3	662.3	662.3	662.3	662.3	663.2	664.1	664.9	665.9	665.8
167.5°	669.0	668.6	668.6	668.5	668.4	668.3	669.4	670.4	671.4	672.3	672.3
170°	672.3	672.0	672.1	672.2	672.3	672.4	673.3	674.2	675.1	676.1	675.9
172.5°	674.8	674.4	674.6	674.7	674.8	674.8	675.8	676.7	677.6	678.5	678.3
175°	677.3	677.1	677.2	677.3	677.4	677.5	678.5	679.6	680.6	681.6	681.4
177.5°	678.8	678.5	678.7	678.9	679.0	679.2	680.0	680.7	681.4	682.2	682.0
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1



TEST NUMBER: P332991-940  
 CATALOG NUMBER: SA4XXRDIP-C1195D590U940-4F0-1E-UDD-A

**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°	13.9	13.9	14.0	14.0	14.0	13.9	13.9	13.8	13.5	12.8	12.1
95°	14.4	14.5	14.6	14.7	14.6	14.5	14.4	14.3	13.9	13.2	12.6
97.5°	13.9	14.0	14.1	14.3	14.1	14.0	13.9	13.8	13.7	13.6	13.6
100°	13.9	14.0	14.1	14.3	14.1	14.0	13.9	13.8	14.7	16.6	18.5
102.5°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.5	24.9	45.7	66.3
105°	157.2	153.1	149.0	145.0	149.0	153.1	157.2	161.2	162.7	161.8	160.8
107.5°	200.7	201.2	201.6	202.1	201.6	201.2	200.7	200.3	199.8	199.4	198.9
110°	225.9	226.1	226.5	226.9	226.5	226.1	225.9	225.5	225.2	225.0	224.8



TEST NUMBER: P332991-940

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

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	250.4	250.8	251.3	251.6	251.3	250.8	250.4	249.9	249.8	249.9	249.9
115°	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.8	287.6	287.3
117.5°	324.9	324.9	324.8	324.8	324.8	324.9	324.9	324.9	324.9	325.0	325.0
120°	348.6	348.4	348.1	347.9	348.1	348.4	348.6	348.8	348.8	348.6	348.4
122.5°	371.4	371.1	371.0	370.7	371.0	371.1	371.4	371.6	371.7	371.5	371.4
125°	404.6	404.7	404.7	404.9	404.7	404.7	404.6	404.5	404.2	403.9	403.5
127.5°	435.2	435.1	435.0	434.9	435.0	435.1	435.2	435.2	435.3	435.4	435.5
130°	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.0	455.0
132.5°	474.2	474.1	474.0	473.9	474.0	474.1	474.2	474.3	474.3	474.2	474.1
135°	501.3	501.6	501.9	502.0	501.9	501.6	501.3	501.1	500.9	500.7	500.4
137.5°	526.3	526.2	526.1	526.0	526.1	526.2	526.3	526.3	526.2	526.0	525.8
140°	542.4	542.5	542.6	542.7	542.6	542.5	542.4	542.2	542.1	541.7	541.4
142.5°	556.5	556.5	556.5	556.6	556.5	556.5	556.5	556.5	556.3	556.1	555.8
145°	577.1	577.4	577.7	577.8	577.7	577.4	577.1	576.9	576.8	576.7	576.5
147.5°	595.1	595.2	595.3	595.4	595.3	595.2	595.1	594.9	594.9	594.8	594.7
150°	606.5	606.6	606.7	606.8	606.7	606.6	606.5	606.4	606.3	606.3	606.3
152.5°	616.8	616.7	616.6	616.6	616.6	616.7	616.8	616.9	616.8	616.6	616.4
155°	630.7	630.4	630.1	629.7	630.1	630.4	630.7	631.1	631.0	630.5	630.1
157.5°	642.5	641.9	641.3	640.7	641.3	641.9	642.5	643.0	643.0	642.5	641.9
160°	650.1	649.3	648.7	648.0	648.7	649.3	650.1	650.8	650.8	650.1	649.3
162.5°	656.0	655.2	654.5	653.7	654.5	655.2	656.0	656.8	656.8	656.1	655.5
165°	664.8	663.8	662.8	661.7	662.8	663.8	664.8	665.8	665.9	664.9	664.1
167.5°	671.2	670.0	668.9	667.8	668.9	670.0	671.2	672.3	672.3	671.4	670.4
170°	674.8	673.7	672.5	671.5	672.5	673.7	674.8	675.9	676.1	675.1	674.2
172.5°	677.2	675.9	674.7	673.4	674.7	675.9	677.2	678.3	678.5	677.6	676.7
175°	680.1	678.7	677.3	676.0	677.3	678.7	680.1	681.4	681.6	680.6	679.6
177.5°	680.9	679.8	678.7	677.6	678.7	679.8	680.9	682.0	682.2	681.4	680.7
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1



TEST NUMBER: P332991-940

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

**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°	11.5	10.8	9.9	9.0	8.1	7.1	6.7	6.6	6.5	6.5	6.4
95°	11.9	11.1	11.1	11.0	10.9	10.7	12.6	16.4	20.3	24.2	28.0
97.5°	13.5	13.5	26.0	38.7	51.3	63.8	69.0	66.6	64.2	61.8	59.4
100°	20.4	22.4	38.0	53.6	69.2	84.8	91.6	89.5	87.5	85.4	83.4
102.5°	87.1	107.8	109.9	111.9	114.0	116.0	116.3	114.8	113.2	111.7	110.3
105°	159.7	158.7	158.1	157.6	157.0	156.4	155.8	155.2	154.4	153.8	153.1
107.5°	198.4	197.9	197.1	196.4	195.6	194.7	194.2	193.9	193.6	193.2	192.9
110°	224.5	224.4	223.6	222.9	222.3	221.6	221.1	220.8	220.4	220.1	219.7



TEST NUMBER: P332991-940

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

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	249.9	249.9	249.7	249.3	249.0	248.7	248.3	247.6	247.0	246.4	245.8
115°	287.1	286.9	287.0	287.1	287.2	287.3	287.2	286.9	286.5	286.2	285.9
117.5°	325.1	325.1	324.9	324.7	324.4	324.1	323.8	323.3	322.9	322.4	322.0
120°	348.1	347.9	348.0	348.1	348.3	348.4	348.2	347.8	347.3	346.9	346.4
122.5°	371.2	371.1	371.0	370.8	370.7	370.5	370.2	370.0	369.7	369.4	369.2
125°	403.2	402.9	403.1	403.3	403.5	403.8	403.7	403.2	402.8	402.3	401.8
127.5°	435.5	435.6	435.1	434.5	434.1	433.5	433.2	433.1	433.0	432.8	432.7
130°	454.9	454.8	454.4	454.1	453.7	453.3	453.2	453.1	452.9	452.8	452.7
132.5°	473.9	473.9	473.4	473.0	472.6	472.2	471.8	471.6	471.4	471.2	471.0
135°	500.2	500.0	499.5	499.1	498.6	498.2	498.0	498.1	498.3	498.4	498.5
137.5°	525.5	525.2	524.8	524.2	523.7	523.3	523.0	522.9	522.9	522.8	522.8
140°	541.0	540.7	540.5	540.3	540.0	539.8	539.6	539.3	539.1	538.9	538.7
142.5°	555.6	555.4	555.2	555.1	554.9	554.8	554.6	554.1	553.8	553.3	552.9
145°	576.4	576.3	576.3	576.3	576.3	576.3	576.1	575.8	575.4	575.2	574.8
147.5°	594.6	594.5	594.6	594.8	594.9	594.9	594.7	594.1	593.4	592.8	592.2
150°	606.3	606.3	606.5	606.5	606.6	606.8	606.6	606.2	605.7	605.2	604.8
152.5°	616.3	616.1	616.3	616.5	616.7	616.9	616.8	616.4	616.1	615.7	615.4
155°	629.6	629.2	629.5	629.9	630.3	630.5	630.7	630.5	630.4	630.4	630.3
157.5°	641.3	640.7	641.1	641.5	641.9	642.2	642.5	642.6	642.6	642.7	642.7
160°	648.7	648.0	648.1	648.3	648.4	648.5	648.7	649.1	649.3	649.7	650.1
162.5°	654.8	654.2	654.2	654.3	654.4	654.6	654.9	655.3	655.7	656.1	656.6
165°	663.2	662.3	662.3	662.3	662.3	662.3	662.5	663.1	663.7	664.2	664.8
167.5°	669.4	668.3	668.4	668.5	668.6	668.6	669.0	669.6	670.1	670.7	671.3
170°	673.3	672.4	672.3	672.2	672.1	672.0	672.3	673.0	673.6	674.3	675.0
172.5°	675.8	674.8	674.8	674.7	674.6	674.4	674.8	675.4	676.1	676.7	677.4
175°	678.5	677.5	677.4	677.3	677.2	677.1	677.3	678.1	678.7	679.4	680.1
177.5°	680.0	679.2	679.0	678.9	678.7	678.5	678.8	679.4	680.0	680.6	681.3
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1



TEST NUMBER: P332991-940

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

**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°	6.5	6.5	6.6	6.7	7.1	8.1	9.0	9.9	10.8	11.5	12.1
95°	24.2	20.3	16.4	12.6	10.7	10.9	11.0	11.1	11.1	11.9	12.6
97.5°	61.8	64.2	66.6	69.0	63.8	51.3	38.7	26.0	13.5	13.5	13.6
100°	85.4	87.5	89.5	91.6	84.8	69.2	53.6	38.0	22.4	20.4	18.5
102.5°	111.7	113.2	114.8	116.3	116.0	114.0	111.9	109.9	107.8	87.1	66.3
105°	153.8	154.4	155.2	155.8	156.4	157.0	157.6	158.1	158.7	159.7	160.8
107.5°	193.2	193.6	193.9	194.2	194.7	195.6	196.4	197.1	197.9	198.4	198.9
110°	220.1	220.4	220.8	221.1	221.6	222.3	222.9	223.6	224.4	224.5	224.8





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	246.4	247.0	247.6	248.3	248.7	249.0	249.3	249.7	249.9	249.9	249.9
115°	286.2	286.5	286.9	287.2	287.3	287.2	287.1	287.0	286.9	287.1	287.3
117.5°	322.4	322.9	323.3	323.8	324.1	324.4	324.7	324.9	325.1	325.1	325.0
120°	346.9	347.3	347.8	348.2	348.4	348.3	348.1	348.0	347.9	348.1	348.4
122.5°	369.4	369.7	370.0	370.2	370.5	370.7	370.8	371.0	371.1	371.2	371.4
125°	402.3	402.8	403.2	403.7	403.8	403.5	403.3	403.1	402.9	403.2	403.5
127.5°	432.8	433.0	433.1	433.2	433.5	434.1	434.5	435.1	435.6	435.5	435.5
130°	452.8	452.9	453.1	453.2	453.3	453.7	454.1	454.4	454.8	454.9	455.0
132.5°	471.2	471.4	471.6	471.8	472.2	472.6	473.0	473.4	473.9	473.9	474.1
135°	498.4	498.3	498.1	498.0	498.2	498.6	499.1	499.5	500.0	500.2	500.4
137.5°	522.8	522.9	522.9	523.0	523.3	523.7	524.2	524.8	525.2	525.5	525.8
140°	538.9	539.1	539.3	539.6	539.8	540.0	540.3	540.5	540.7	541.0	541.4
142.5°	553.3	553.8	554.1	554.6	554.8	554.9	555.1	555.2	555.4	555.6	555.8
145°	575.2	575.4	575.8	576.1	576.3	576.3	576.3	576.3	576.3	576.4	576.5
147.5°	592.8	593.4	594.1	594.7	594.9	594.9	594.8	594.6	594.5	594.6	594.7
150°	605.2	605.7	606.2	606.6	606.8	606.6	606.5	606.5	606.3	606.3	606.3
152.5°	615.7	616.1	616.4	616.8	616.9	616.7	616.5	616.3	616.1	616.3	616.4
155°	630.4	630.4	630.5	630.7	630.5	630.3	629.9	629.5	629.2	629.6	630.1
157.5°	642.7	642.6	642.6	642.5	642.2	641.9	641.5	641.1	640.7	641.3	641.9
160°	649.7	649.3	649.1	648.7	648.5	648.4	648.3	648.1	648.0	648.7	649.3
162.5°	656.1	655.7	655.3	654.9	654.6	654.4	654.3	654.2	654.2	654.8	655.5
165°	664.2	663.7	663.1	662.5	662.3	662.3	662.3	662.3	662.3	663.2	664.1
167.5°	670.7	670.1	669.6	669.0	668.6	668.6	668.5	668.4	668.3	669.4	670.4
170°	674.3	673.6	673.0	672.3	672.0	672.1	672.2	672.3	672.4	673.3	674.2
172.5°	676.7	676.1	675.4	674.8	674.4	674.6	674.7	674.8	674.8	675.8	676.7
175°	679.4	678.7	678.1	677.3	677.1	677.2	677.3	677.4	677.5	678.5	679.6
177.5°	680.6	680.0	679.4	678.8	678.5	678.7	678.9	679.0	679.2	680.0	680.7
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1



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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°	12.8	13.5	13.8	13.9	13.9	14.0	14.0
95°	13.2	13.9	14.3	14.4	14.5	14.6	14.7
97.5°	13.6	13.7	13.8	13.9	14.0	14.1	14.3
100°	16.6	14.7	13.8	13.9	14.0	14.1	14.3
102.5°	45.7	24.9	14.5	14.6	14.6	14.6	14.6
105°	161.8	162.7	161.2	157.2	153.1	149.0	145.0
107.5°	199.4	199.8	200.3	200.7	201.2	201.6	202.1
110°	225.0	225.2	225.5	225.9	226.1	226.5	226.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	249.9	249.8	249.9	250.4	250.8	251.3	251.6
115°	287.6	287.8	287.9	287.9	287.9	287.9	287.9
117.5°	325.0	324.9	324.9	324.9	324.9	324.8	324.8
120°	348.6	348.8	348.8	348.6	348.4	348.1	347.9
122.5°	371.5	371.7	371.6	371.4	371.1	371.0	370.7
125°	403.9	404.2	404.5	404.6	404.7	404.7	404.9
127.5°	435.4	435.3	435.2	435.2	435.1	435.0	434.9
130°	455.0	455.2	455.2	455.2	455.2	455.2	455.2
132.5°	474.2	474.3	474.3	474.2	474.1	474.0	473.9
135°	500.7	500.9	501.1	501.3	501.6	501.9	502.0
137.5°	526.0	526.2	526.3	526.3	526.2	526.1	526.0
140°	541.7	542.1	542.2	542.4	542.5	542.6	542.7
142.5°	556.1	556.3	556.5	556.5	556.5	556.5	556.6
145°	576.7	576.8	576.9	577.1	577.4	577.7	577.8
147.5°	594.8	594.9	594.9	595.1	595.2	595.3	595.4
150°	606.3	606.3	606.4	606.5	606.6	606.7	606.8
152.5°	616.6	616.8	616.9	616.8	616.7	616.6	616.6
155°	630.5	631.0	631.1	630.7	630.4	630.1	629.7
157.5°	642.5	643.0	643.0	642.5	641.9	641.3	640.7
160°	650.1	650.8	650.8	650.1	649.3	648.7	648.0
162.5°	656.1	656.8	656.8	656.0	655.2	654.5	653.7
165°	664.9	665.9	665.8	664.8	663.8	662.8	661.7
167.5°	671.4	672.3	672.3	671.2	670.0	668.9	667.8
170°	675.1	676.1	675.9	674.8	673.7	672.5	671.5
172.5°	677.6	678.5	678.3	677.2	675.9	674.7	673.4
175°	680.6	681.6	681.4	680.1	678.7	677.3	676.0
177.5°	681.4	682.2	682.0	680.9	679.8	678.7	677.6
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1

(END OF REPORT)