

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: P333005-940

Luminaire Tested: **SA4XXRDIP-C1195D1035U940-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P333005-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXRDIP-C1195D1035U940-4F0-1E-UDD-A4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1035 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

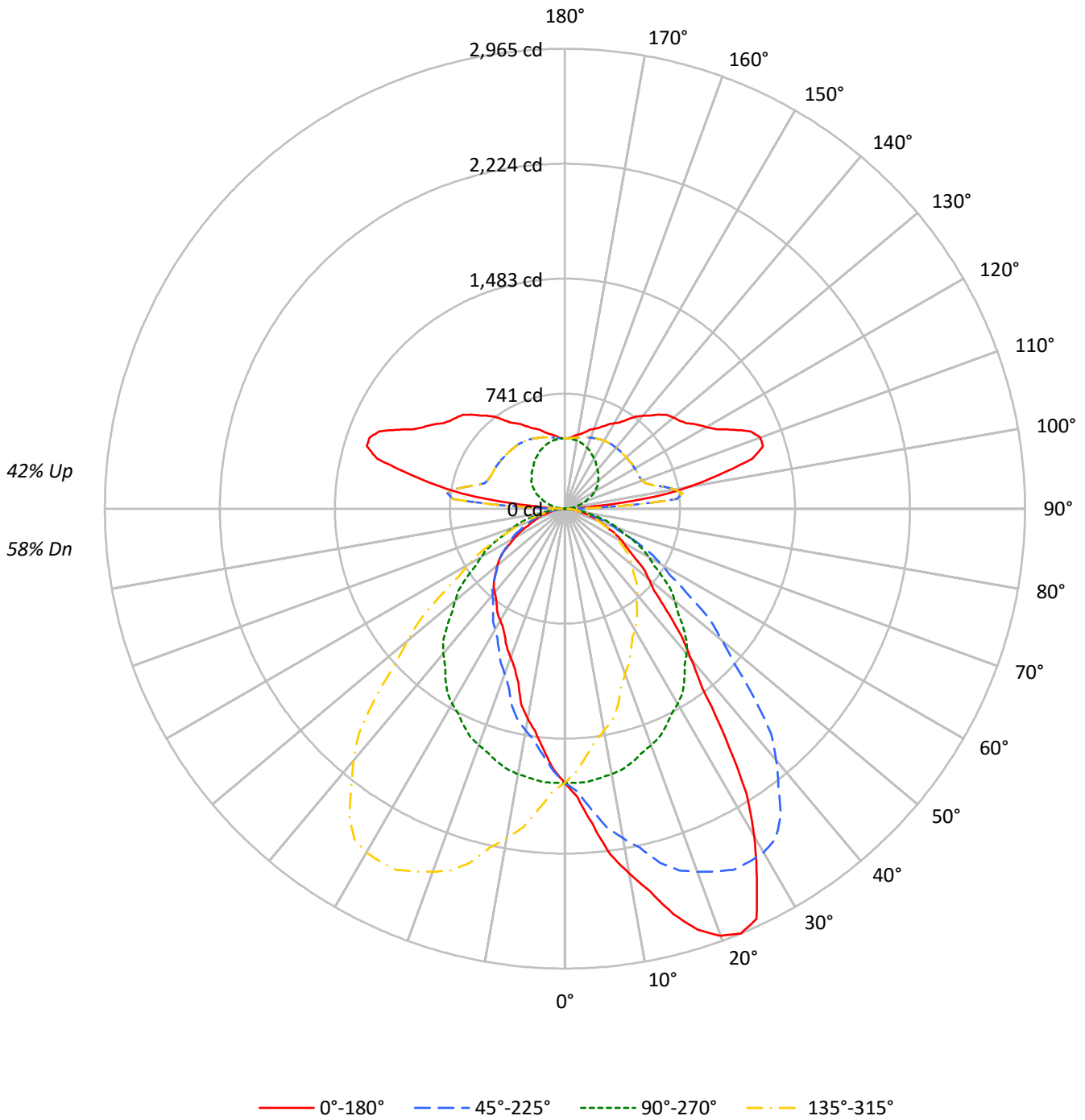
Lumens per Lamp: N/A  
Luminaire Lumens: 7764.7 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 66.8  
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			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	109	109	109	109	101	101	101	101	88	88	88	75	75	75	63	63	63	58
1	100	96	92	89	93	90	86	83	78	75	73	67	65	63	57	55	54	50
2	92	84	78	73	85	79	74	69	69	65	61	59	56	54	50	48	47	42
3	84	75	67	62	78	70	64	58	61	56	52	53	49	46	45	42	40	36
4	77	66	59	53	71	62	55	50	55	49	45	47	43	40	41	38	35	32
5	71	59	51	45	66	56	49	43	49	43	39	43	38	35	37	33	31	28
6	65	53	45	40	61	50	43	38	44	39	34	39	34	31	34	30	27	25
7	61	48	41	35	56	46	39	33	40	35	30	35	31	27	31	27	24	22
8	56	44	36	31	52	42	35	30	37	31	27	32	28	25	28	25	22	20
9	52	40	33	28	49	38	31	27	34	28	24	30	25	22	26	23	20	18
10	49	37	30	25	46	35	29	24	31	26	22	28	23	20	24	21	18	16

**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	2.2
10°-20°	516.5	6.7
20°-30°	807.8	10.4
30°-40°	898.0	11.6
40°-50°	796.7	10.3
50°-60°	620.8	8.0
60°-70°	406.5	5.2
70°-80°	199.9	2.6
80°-90°	51.8	0.7
90°-100°	327.3	4.2
100°-110°	681.1	8.8
110°-120°	610.1	7.9
120°-130°	513.2	6.6
130°-140°	427.9	5.5
140°-150°	326.9	4.2
150°-160°	229.8	3.0
160°-170°	135.2	1.7
170°-180°	44.0	0.6
0°-30°	1495.5	19.3
0°-40°	2393.5	30.8
0°-60°	3811.0	49.1
0°-90°	4469.2	57.6
90°-120°	1618.5	20.8
90°-150°	2886.5	37.2
90°-180°	3295.0	42.4
0°-180°	7764.7	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°	19	1	19	1	19	17
95°	217	29	217	29	217	337
105°	1252	104	1252	104	1252	1238
115°	1203	183	1203	183	1203	1194
125°	960	256	960	256	960	872
135°	858	304	858	304	858	662
145°	701	350	701	350	701	444
155°	587	398	587	398	587	274
165°	512	434	512	434	512	147
175°	461	452	461	452	461	45
180°	453	453	453	453	453	



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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°	16.2	15.7	16.4	16.2	16.7	16.1	16.5	17.5	16.1	16.9	16.5
90°	18.7	18.7	19.6	18.7	17.8	17.8	16.9	16.1	15.2	16.1	14.3
92.5°	68.6	68.6	71.6	76.4	86.9	104.7	131.6	174.9	235.2	282.4	247.1
95°	217.2	228.8	244.8	272.4	316.0	402.3	521.7	659.6	746.0	725.5	547.5
97.5°	580.6	599.1	625.8	679.4	743.3	836.2	923.3	974.6	937.2	764.1	512.4
100°	816.4	823.4	850.2	904.5	981.9	1047.8	1091.4	1073.6	943.6	715.7	464.7
102.5°	1021.5	1027.2	1055.3	1094.6	1142.1	1169.6	1156.9	1068.6	890.2	655.2	432.7
105°	1252.5	1257.8	1270.3	1277.5	1275.7	1239.1	1151.0	997.0	793.2	584.0	405.0
107.5°	1338.4	1336.1	1327.1	1306.8	1262.8	1183.5	1059.4	895.4	714.8	544.1	400.0
110°	1339.8	1331.8	1315.7	1278.4	1215.1	1117.2	988.1	834.1	675.6	530.6	401.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1297.7	1284.8	1262.3	1217.1	1145.3	1047.4	925.4	789.3	653.6	524.1	405.7
115°	1202.7	1195.5	1167.1	1113.7	1043.3	957.9	853.7	744.2	632.9	520.8	413.9
117.5°	1106.3	1100.8	1072.0	1027.2	967.1	894.7	812.8	722.1	623.7	519.9	422.7
120°	1052.2	1042.4	1019.3	980.1	929.3	866.2	795.0	712.1	618.7	519.9	429.1
122.5°	1009.5	999.7	980.1	946.6	903.7	848.4	783.5	703.6	613.0	519.2	435.5
125°	959.7	954.3	937.4	911.6	875.9	827.0	765.5	689.0	603.6	518.1	445.1
127.5°	930.4	925.1	910.9	887.9	852.1	805.7	744.4	671.2	590.9	516.1	452.7
130°	913.4	908.0	893.8	871.5	835.0	787.8	727.3	657.0	583.1	515.4	458.4
132.5°	894.1	888.8	875.2	850.2	814.4	767.1	708.1	642.0	576.0	514.7	463.4
135°	858.2	852.8	838.6	813.7	778.0	733.5	679.2	621.3	565.3	513.6	470.9
137.5°	813.7	807.3	795.5	770.9	737.6	697.4	651.7	602.7	556.0	513.4	475.4
140°	781.6	774.5	762.1	742.4	711.2	673.9	633.8	592.0	551.1	512.7	478.9
142.5°	747.4	742.4	731.4	713.2	685.6	653.3	618.8	582.0	546.8	512.7	481.8
145°	700.6	696.2	687.2	672.1	649.9	624.9	598.2	567.9	539.5	511.0	483.4
147.5°	659.1	657.5	650.8	637.8	621.3	601.8	580.4	556.3	532.9	507.7	484.3
150°	635.6	634.7	629.4	617.8	603.6	587.5	569.7	549.3	527.9	505.6	484.3
152.5°	614.2	613.3	610.1	600.7	588.6	575.4	559.0	541.4	522.2	502.0	482.9
155°	586.7	586.7	584.0	576.8	567.9	557.2	543.9	529.7	513.6	496.8	480.7
157.5°	562.4	562.4	560.8	555.4	548.8	540.2	529.0	517.0	504.9	491.2	478.4
160°	547.5	547.5	546.6	541.3	535.9	528.8	519.0	509.2	498.6	487.0	476.3
162.5°	533.2	534.0	533.1	527.7	523.8	517.4	509.7	501.3	492.8	482.7	474.1
165°	511.8	512.7	513.6	510.1	506.5	502.0	495.9	490.5	483.4	476.3	470.0
167.5°	495.0	495.7	495.9	493.6	491.8	489.1	484.1	480.0	474.8	469.8	465.7
170°	484.3	484.3	485.2	484.3	482.5	479.8	476.3	473.6	469.1	465.6	462.9
172.5°	473.6	475.0	475.9	475.0	473.9	472.0	469.8	467.9	464.1	461.3	460.0
175°	461.1	462.9	464.7	462.9	462.9	462.9	461.1	460.2	458.4	456.6	456.6
177.5°	453.8	455.2	456.6	455.9	456.6	455.9	455.9	455.2	454.5	453.8	453.8
180°	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1



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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°	16.1	15.6	15.7	15.7	16.1	18.2	19.4	19.5	18.2	17.0	15.5
90°	12.5	12.5	7.1	7.1	6.2	5.4	2.7	0.9	2.7	5.4	6.2
92.5°	179.9	110.8	65.5	47.0	34.0	23.2	14.8	10.2	14.8	23.2	34.0
95°	334.7	188.7	111.3	73.9	52.5	40.9	32.0	29.3	32.0	40.9	52.5
97.5°	300.9	180.4	120.7	89.3	71.1	60.4	52.7	52.7	52.7	60.4	71.1
100°	283.1	182.5	130.0	101.5	84.5	73.9	67.7	67.7	67.7	73.9	84.5
102.5°	278.1	189.6	142.0	115.0	98.8	88.8	83.3	81.9	83.3	88.8	98.8
105°	280.4	206.5	163.8	137.9	122.0	111.3	106.8	104.2	106.8	111.3	122.0
107.5°	293.6	226.3	187.1	161.7	146.3	134.9	130.5	128.8	130.5	134.9	146.3
110°	303.5	241.2	202.1	178.1	162.0	151.3	146.9	145.1	146.9	151.3	162.0





TEST NUMBER: P333005-940

CATALOG NUMBER: SA4XXRDIP-C1195D1035U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	314.2	255.5	217.8	193.7	177.7	167.7	162.6	160.8	162.6	167.7	177.7
115°	331.2	277.8	242.1	218.1	201.2	192.3	186.0	183.4	186.0	192.3	201.2
117.5°	348.4	299.3	265.5	240.5	224.7	214.9	209.4	206.9	209.4	214.9	224.7
120°	360.5	314.2	280.4	255.5	240.3	230.6	224.4	222.6	224.4	230.6	240.3
122.5°	371.9	328.5	294.6	270.5	253.9	244.8	238.5	236.8	238.5	244.8	253.9
125°	389.1	348.0	316.0	291.1	274.2	264.4	259.0	255.5	259.0	264.4	274.2
127.5°	403.8	366.2	335.3	310.1	292.5	281.3	274.9	272.1	274.9	281.3	292.5
130°	413.0	378.4	348.0	322.3	305.3	291.9	284.9	281.3	284.9	291.9	305.3
132.5°	422.3	388.3	358.0	333.7	315.3	302.6	293.4	290.5	293.4	302.6	315.3
135°	434.4	402.3	373.0	349.8	331.2	316.0	307.1	303.5	307.1	316.0	331.2
137.5°	443.0	413.0	385.7	363.6	344.1	329.8	319.9	316.6	319.9	329.8	344.1
140°	448.6	420.2	393.5	372.1	353.4	338.3	328.5	325.8	328.5	338.3	353.4
142.5°	452.9	426.6	400.6	380.0	361.9	347.5	338.5	335.8	338.5	347.5	361.9
145°	457.5	433.5	410.4	390.8	373.9	361.4	352.5	349.8	352.5	361.4	373.9
147.5°	461.6	440.7	418.9	401.3	387.3	374.4	366.6	365.7	366.6	374.4	387.3
150°	463.8	444.3	424.6	407.7	394.4	383.7	376.6	375.7	376.6	383.7	394.4
152.5°	465.2	447.1	429.6	414.1	402.2	392.3	385.1	385.0	385.1	392.3	402.2
155°	466.5	451.3	436.2	422.8	413.0	404.1	398.8	397.9	398.8	404.1	413.0
157.5°	466.5	454.3	441.6	431.1	422.5	415.5	410.5	410.5	410.5	415.5	422.5
160°	466.5	455.8	445.1	435.3	428.2	422.0	418.4	418.4	418.4	422.0	428.2
162.5°	466.5	457.2	447.3	439.6	433.2	427.7	424.8	425.5	424.8	427.7	433.2
165°	464.7	457.5	449.5	444.3	439.8	435.3	433.5	433.5	433.5	435.3	439.8
167.5°	462.5	457.4	451.5	447.5	445.0	441.6	440.7	441.6	440.7	441.6	445.0
170°	461.1	456.6	452.2	449.5	447.8	445.1	444.3	445.1	444.3	445.1	447.8
172.5°	459.7	455.9	452.9	450.9	449.9	447.9	447.8	448.6	447.8	447.9	449.9
175°	457.5	454.9	453.1	453.1	452.2	451.3	451.3	452.2	451.3	451.3	452.2
177.5°	455.2	453.8	453.1	453.1	453.1	452.4	453.1	453.8	453.1	452.4	453.1
180°	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1



TEST NUMBER: P333005-940

CATALOG NUMBER: SA4XXRDIP-C1195D1035U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1
2.5°	1735.2	1729.5	1722.1	1713.5	1703.3	1694.2	1690.1	1693.6	1695.3	1690.8	1690.1
5°	1682.3	1664.6	1650.3	1629.0	1611.9	1597.6	1587.7	1583.4	1584.8	1573.4	1570.6
7.5°	1623.0	1601.9	1578.5	1553.2	1529.6	1508.6	1497.6	1491.7	1479.6	1474.4	1465.8
10°	1584.8	1556.3	1533.6	1503.6	1476.6	1451.7	1439.6	1429.6	1417.5	1411.8	1399.7
12.5°	1545.5	1512.4	1487.4	1456.3	1428.7	1398.7	1387.1	1368.7	1349.7	1337.7	1322.2
15°	1490.1	1450.3	1419.6	1382.6	1349.9	1315.7	1285.0	1250.9	1238.1	1211.0	1195.3
17.5°	1425.3	1384.9	1347.0	1297.4	1246.8	1204.3	1171.7	1139.0	1119.4	1102.1	1094.1
20°	1382.6	1345.6	1292.9	1235.2	1179.0	1132.0	1105.6	1084.3	1062.9	1050.9	1042.3
22.5°	1342.2	1294.9	1233.7	1171.4	1115.2	1078.4	1056.1	1034.2	1016.8	1005.3	993.9
25°	1274.4	1212.5	1147.6	1076.5	1038.0	1006.0	981.8	963.9	953.3	938.3	932.6
27.5°	1204.8	1129.7	1058.3	1010.4	970.4	941.0	920.0	906.6	893.0	883.5	876.1
30°	1151.2	1075.0	1010.9	965.4	924.8	900.6	883.5	867.9	857.2	849.4	843.6
32.5°	1098.2	1022.1	968.2	919.3	887.3	863.6	845.3	833.7	825.3	815.2	811.7
35°	1021.6	954.0	907.0	862.9	830.1	808.8	794.5	782.5	775.3	772.5	770.3
37.5°	948.1	892.6	842.1	805.9	776.8	759.9	743.2	737.2	732.3	727.2	729.5
40°	901.3	849.4	804.5	766.1	742.5	724.1	714.1	706.9	702.7	702.7	702.7
42.5°	860.9	810.0	766.3	731.9	708.4	692.8	681.6	675.6	674.2	673.7	677.1
45°	798.1	751.1	706.9	678.5	658.5	642.9	636.5	631.5	631.5	634.4	635.1
47.5°	735.8	691.9	656.4	624.6	606.3	596.5	590.9	588.4	588.6	591.5	594.8
50°	697.7	654.2	619.4	590.9	573.8	564.5	559.5	558.2	559.5	559.5	564.5
52.5°	656.1	617.2	582.9	559.0	539.7	531.0	528.2	526.3	527.1	529.4	531.5
55°	595.2	560.3	527.5	504.8	490.5	484.8	478.4	479.1	477.7	479.1	479.1
57.5°	534.1	502.7	472.3	454.2	441.7	433.5	426.4	428.5	426.3	426.1	424.9
60°	494.8	460.7	436.4	420.1	405.8	398.7	392.3	393.7	391.6	390.1	387.3
62.5°	452.1	423.7	400.6	384.8	373.4	365.1	358.6	357.2	352.3	347.4	341.2
65°	390.1	366.7	346.0	331.1	320.4	314.0	309.0	304.7	294.0	282.7	277.0
67.5°	329.9	313.0	293.7	281.1	272.4	264.0	254.5	247.2	237.2	231.0	227.4
70°	291.1	274.8	258.4	246.3	237.1	229.3	218.6	213.6	206.4	203.6	200.1
72.5°	254.1	238.9	223.7	212.8	202.9	196.8	188.4	183.4	180.3	179.1	175.6
75°	198.0	185.8	174.4	164.4	156.7	152.4	148.8	145.3	143.8	137.4	133.8
77.5°	144.4	136.4	129.3	122.2	116.6	113.8	106.9	102.8	100.4	97.4	96.7
80°	112.4	106.8	99.7	95.4	87.6	84.7	81.9	81.1	80.4	79.7	79.0
82.5°	84.6	78.9	71.8	69.2	67.1	65.4	63.7	63.0	62.2	62.7	62.5
85°	42.7	39.9	39.9	39.1	38.4	37.7	37.0	37.0	36.3	37.0	36.3
87.5°	15.7	15.1	16.1	15.0	16.0	16.3	15.5	15.7	16.5	15.5	15.5
90°	7.1	7.1	12.5	12.5	14.3	16.1	15.2	16.1	16.9	17.8	17.8
92.5°	47.0	65.5	110.8	179.9	247.1	282.4	235.2	174.9	131.6	104.7	86.9
95°	73.9	111.3	188.7	334.7	547.5	725.5	746.0	659.6	521.7	402.3	316.0
97.5°	89.3	120.7	180.4	300.9	512.4	764.1	937.2	974.6	923.3	836.2	743.3
100°	101.5	130.0	182.5	283.1	464.7	715.7	943.6	1073.6	1091.4	1047.8	981.9
102.5°	115.0	142.0	189.6	278.1	432.7	655.2	890.2	1068.6	1156.9	1169.6	1142.1
105°	137.9	163.8	206.5	280.4	405.0	584.0	793.2	997.0	1151.0	1239.1	1275.7
107.5°	161.7	187.1	226.3	293.6	400.0	544.1	714.8	895.4	1059.4	1183.5	1262.8
110°	178.1	202.1	241.2	303.5	401.4	530.6	675.6	834.1	988.1	1117.2	1215.1



TEST NUMBER: P333005-940

CATALOG NUMBER: SA4XXRDIP-C1195D1035U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	193.7	217.8	255.5	314.2	405.7	524.1	653.6	789.3	925.4	1047.4	1145.3
115°	218.1	242.1	277.8	331.2	413.9	520.8	632.9	744.2	853.7	957.9	1043.3
117.5°	240.5	265.5	299.3	348.4	422.7	519.9	623.7	722.1	812.8	894.7	967.1
120°	255.5	280.4	314.2	360.5	429.1	519.9	618.7	712.1	795.0	866.2	929.3
122.5°	270.5	294.6	328.5	371.9	435.5	519.2	613.0	703.6	783.5	848.4	903.7
125°	291.1	316.0	348.0	389.1	445.1	518.1	603.6	689.0	765.5	827.0	875.9
127.5°	310.1	335.3	366.2	403.8	452.7	516.1	590.9	671.2	744.4	805.7	852.1
130°	322.3	348.0	378.4	413.0	458.4	515.4	583.1	657.0	727.3	787.8	835.0
132.5°	333.7	358.0	388.3	422.3	463.4	514.7	576.0	642.0	708.1	767.1	814.4
135°	349.8	373.0	402.3	434.4	470.9	513.6	565.3	621.3	679.2	733.5	778.0
137.5°	363.6	385.7	413.0	443.0	475.4	513.4	556.0	602.7	651.7	697.4	737.6
140°	372.1	393.5	420.2	448.6	478.9	512.7	551.1	592.0	633.8	673.9	711.2
142.5°	380.0	400.6	426.6	452.9	481.8	512.7	546.8	582.0	618.8	653.3	685.6
145°	390.8	410.4	433.5	457.5	483.4	511.0	539.5	567.9	598.2	624.9	649.9
147.5°	401.3	418.9	440.7	461.6	484.3	507.7	532.9	556.3	580.4	601.8	621.3
150°	407.7	424.6	444.3	463.8	484.3	505.6	527.9	549.3	569.7	587.5	603.6
152.5°	414.1	429.6	447.1	465.2	482.9	502.0	522.2	541.4	559.0	575.4	588.6
155°	422.8	436.2	451.3	466.5	480.7	496.8	513.6	529.7	543.9	557.2	567.9
157.5°	431.1	441.6	454.3	466.5	478.4	491.2	504.9	517.0	529.0	540.2	548.8
160°	435.3	445.1	455.8	466.5	476.3	487.0	498.6	509.2	519.0	528.8	535.9
162.5°	439.6	447.3	457.2	466.5	474.1	482.7	492.8	501.3	509.7	517.4	523.8
165°	444.3	449.5	457.5	464.7	470.0	476.3	483.4	490.5	495.9	502.0	506.5
167.5°	447.5	451.5	457.4	462.5	465.7	469.8	474.8	480.0	484.1	489.1	491.8
170°	449.5	452.2	456.6	461.1	462.9	465.6	469.1	473.6	476.3	479.8	482.5
172.5°	450.9	452.9	455.9	459.7	460.0	461.3	464.1	467.9	469.8	472.0	473.9
175°	453.1	453.1	454.9	457.5	456.6	456.6	458.4	460.2	461.1	462.9	462.9
177.5°	453.1	453.1	453.8	455.2	453.8	453.8	454.5	455.2	455.9	455.9	456.6
180°	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1



TEST NUMBER: P333005-940

CATALOG NUMBER: SA4XXRDIP-C1195D1035U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1
2.5°	1686.8	1687.9	1683.9	1682.7	1683.9	1687.9	1686.8	1690.1	1690.8	1695.3	1693.6
5°	1564.9	1563.4	1559.9	1560.6	1559.9	1563.4	1564.9	1570.6	1573.4	1584.8	1583.4
7.5°	1460.6	1455.1	1456.6	1451.0	1456.6	1455.1	1460.6	1465.8	1474.4	1479.6	1491.7
10°	1396.9	1389.0	1382.6	1376.9	1382.6	1389.0	1396.9	1399.7	1411.8	1417.5	1429.6
12.5°	1309.7	1303.0	1294.3	1296.0	1294.3	1303.0	1309.7	1322.2	1337.7	1349.7	1368.7
15°	1186.1	1175.5	1158.3	1160.5	1158.3	1175.5	1186.1	1195.3	1211.0	1238.1	1250.9
17.5°	1081.5	1081.6	1073.8	1075.6	1073.8	1081.6	1081.5	1094.1	1102.1	1119.4	1139.0
20°	1027.3	1022.3	1023.1	1020.9	1023.1	1022.3	1027.3	1042.3	1050.9	1062.9	1084.3
22.5°	989.7	983.6	978.7	974.2	978.7	983.6	989.7	993.9	1005.3	1016.8	1034.2
25°	926.2	921.9	915.6	914.2	915.6	921.9	926.2	932.6	938.3	953.3	963.9
27.5°	870.4	869.6	867.0	863.7	867.0	869.6	870.4	876.1	883.5	893.0	906.6
30°	837.9	836.5	835.1	832.9	835.1	836.5	837.9	843.6	849.4	857.2	867.9
32.5°	809.0	808.1	806.6	806.8	806.6	808.1	809.0	811.7	815.2	825.3	833.7
35°	767.5	766.8	765.4	764.6	765.4	766.8	767.5	770.3	772.5	775.3	782.5
37.5°	728.8	730.6	729.8	729.6	729.8	730.6	728.8	729.5	727.2	732.3	737.2
40°	702.0	702.7	704.1	703.4	704.1	702.7	702.0	702.7	702.7	702.7	706.9
42.5°	679.8	679.9	681.9	679.5	681.9	679.9	679.8	677.1	673.7	674.2	675.6
45°	640.1	644.4	643.6	643.6	643.6	644.4	640.1	635.1	634.4	631.5	631.5
47.5°	596.6	600.3	601.3	601.2	601.3	600.3	596.6	594.8	591.5	588.6	588.4
50°	568.1	566.7	568.8	568.1	568.8	566.7	568.1	564.5	559.5	559.5	558.2
52.5°	533.4	533.7	533.5	532.8	533.5	533.7	533.4	531.5	529.4	527.1	526.3
55°	479.8	480.5	479.1	479.8	479.1	480.5	479.8	479.1	479.1	477.7	479.1
57.5°	421.8	418.3	419.7	418.0	419.7	418.3	421.8	424.9	426.1	426.3	428.5
60°	380.2	374.5	373.1	370.2	373.1	374.5	380.2	387.3	390.1	391.6	393.7
62.5°	333.5	329.5	324.7	326.9	324.7	329.5	333.5	341.2	347.4	352.3	357.2
65°	271.3	268.4	266.3	269.1	266.3	268.4	271.3	277.0	282.7	294.0	304.7
67.5°	224.5	223.0	223.0	221.6	223.0	223.0	224.5	227.4	231.0	237.2	247.2
70°	200.1	198.0	198.0	196.5	198.0	198.0	200.1	200.1	203.6	206.4	213.6
72.5°	175.0	172.9	173.4	172.5	173.4	172.9	175.0	175.6	179.1	180.3	183.4
75°	129.6	126.0	126.0	126.7	126.0	126.0	129.6	133.8	137.4	143.8	145.3
77.5°	96.7	95.9	96.9	95.7	96.9	95.9	96.7	96.7	97.4	100.4	102.8
80°	79.0	78.3	77.6	79.7	77.6	78.3	79.0	79.0	79.7	80.4	81.1
82.5°	61.3	61.3	61.1	63.8	61.1	61.3	61.3	62.5	62.7	62.2	63.0
85°	37.0	35.6	37.0	35.6	37.0	35.6	37.0	36.3	37.0	36.3	37.0
87.5°	16.9	16.4	15.7	16.2	15.7	16.4	16.9	15.5	15.5	16.5	15.7
90°	18.7	19.6	18.7	18.7	18.7	19.6	18.7	17.8	17.8	16.9	16.1
92.5°	76.4	71.6	68.6	68.6	68.6	71.6	76.4	86.9	104.7	131.6	174.9
95°	272.4	244.8	228.8	217.2	228.8	244.8	272.4	316.0	402.3	521.7	659.6
97.5°	679.4	625.8	599.1	580.6	599.1	625.8	679.4	743.3	836.2	923.3	974.6
100°	904.5	850.2	823.4	816.4	823.4	850.2	904.5	981.9	1047.8	1091.4	1073.6
102.5°	1094.6	1055.3	1027.2	1021.5	1027.2	1055.3	1094.6	1142.1	1169.6	1156.9	1068.6
105°	1277.5	1270.3	1257.8	1252.5	1257.8	1270.3	1277.5	1275.7	1239.1	1151.0	997.0
107.5°	1306.8	1327.1	1336.1	1338.4	1336.1	1327.1	1306.8	1262.8	1183.5	1059.4	895.4
110°	1278.4	1315.7	1331.8	1339.8	1331.8	1315.7	1278.4	1215.1	1117.2	988.1	834.1



TEST NUMBER: P333005-940

CATALOG NUMBER: SA4XXRDIP-C1195D1035U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1217.1	1262.3	1284.8	1297.7	1284.8	1262.3	1217.1	1145.3	1047.4	925.4	789.3
115°	1113.7	1167.1	1195.5	1202.7	1195.5	1167.1	1113.7	1043.3	957.9	853.7	744.2
117.5°	1027.2	1072.0	1100.8	1106.3	1100.8	1072.0	1027.2	967.1	894.7	812.8	722.1
120°	980.1	1019.3	1042.4	1052.2	1042.4	1019.3	980.1	929.3	866.2	795.0	712.1
122.5°	946.6	980.1	999.7	1009.5	999.7	980.1	946.6	903.7	848.4	783.5	703.6
125°	911.6	937.4	954.3	959.7	954.3	937.4	911.6	875.9	827.0	765.5	689.0
127.5°	887.9	910.9	925.1	930.4	925.1	910.9	887.9	852.1	805.7	744.4	671.2
130°	871.5	893.8	908.0	913.4	908.0	893.8	871.5	835.0	787.8	727.3	657.0
132.5°	850.2	875.2	888.8	894.1	888.8	875.2	850.2	814.4	767.1	708.1	642.0
135°	813.7	838.6	852.8	858.2	852.8	838.6	813.7	778.0	733.5	679.2	621.3
137.5°	770.9	795.5	807.3	813.7	807.3	795.5	770.9	737.6	697.4	651.7	602.7
140°	742.4	762.1	774.5	781.6	774.5	762.1	742.4	711.2	673.9	633.8	592.0
142.5°	713.2	731.4	742.4	747.4	742.4	731.4	713.2	685.6	653.3	618.8	582.0
145°	672.1	687.2	696.2	700.6	696.2	687.2	672.1	649.9	624.9	598.2	567.9
147.5°	637.8	650.8	657.5	659.1	657.5	650.8	637.8	621.3	601.8	580.4	556.3
150°	617.8	629.4	634.7	635.6	634.7	629.4	617.8	603.6	587.5	569.7	549.3
152.5°	600.7	610.1	613.3	614.2	613.3	610.1	600.7	588.6	575.4	559.0	541.4
155°	576.8	584.0	586.7	586.7	586.7	584.0	576.8	567.9	557.2	543.9	529.7
157.5°	555.4	560.8	562.4	562.4	562.4	560.8	555.4	548.8	540.2	529.0	517.0
160°	541.3	546.6	547.5	547.5	547.5	546.6	541.3	535.9	528.8	519.0	509.2
162.5°	527.7	533.1	534.0	533.2	534.0	533.1	527.7	523.8	517.4	509.7	501.3
165°	510.1	513.6	512.7	511.8	512.7	513.6	510.1	506.5	502.0	495.9	490.5
167.5°	493.6	495.9	495.7	495.0	495.7	495.9	493.6	491.8	489.1	484.1	480.0
170°	484.3	485.2	484.3	484.3	484.3	485.2	484.3	482.5	479.8	476.3	473.6
172.5°	475.0	475.9	475.0	473.6	475.0	475.9	475.0	473.9	472.0	469.8	467.9
175°	462.9	464.7	462.9	461.1	462.9	464.7	462.9	462.9	462.9	461.1	460.2
177.5°	455.9	456.6	455.2	453.8	455.2	456.6	455.9	456.6	455.9	455.9	455.2
180°	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1



TEST NUMBER: P333005-940

CATALOG NUMBER: SA4XXRDIP-C1195D1035U940-4F0-1E-UDD-A4

**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°	15.5	16.3	16.0	15.0	16.1	15.1	15.7	15.5	17.0	18.2	19.5
90°	15.2	16.1	14.3	12.5	12.5	7.1	7.1	6.2	5.4	2.7	0.9
92.5°	235.2	282.4	247.1	179.9	110.8	65.5	47.0	34.0	23.2	14.8	10.2
95°	746.0	725.5	547.5	334.7	188.7	111.3	73.9	52.5	40.9	32.0	29.3
97.5°	937.2	764.1	512.4	300.9	180.4	120.7	89.3	71.1	60.4	52.7	52.7
100°	943.6	715.7	464.7	283.1	182.5	130.0	101.5	84.5	73.9	67.7	67.7
102.5°	890.2	655.2	432.7	278.1	189.6	142.0	115.0	98.8	88.8	83.3	81.9
105°	793.2	584.0	405.0	280.4	206.5	163.8	137.9	122.0	111.3	106.8	104.2
107.5°	714.8	544.1	400.0	293.6	226.3	187.1	161.7	146.3	134.9	130.5	128.8
110°	675.6	530.6	401.4	303.5	241.2	202.1	178.1	162.0	151.3	146.9	145.1



TEST NUMBER: P333005-940

CATALOG NUMBER: SA4XXRDIP-C1195D1035U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	653.6	524.1	405.7	314.2	255.5	217.8	193.7	177.7	167.7	162.6	160.8
115°	632.9	520.8	413.9	331.2	277.8	242.1	218.1	201.2	192.3	186.0	183.4
117.5°	623.7	519.9	422.7	348.4	299.3	265.5	240.5	224.7	214.9	209.4	206.9
120°	618.7	519.9	429.1	360.5	314.2	280.4	255.5	240.3	230.6	224.4	222.6
122.5°	613.0	519.2	435.5	371.9	328.5	294.6	270.5	253.9	244.8	238.5	236.8
125°	603.6	518.1	445.1	389.1	348.0	316.0	291.1	274.2	264.4	259.0	255.5
127.5°	590.9	516.1	452.7	403.8	366.2	335.3	310.1	292.5	281.3	274.9	272.1
130°	583.1	515.4	458.4	413.0	378.4	348.0	322.3	305.3	291.9	284.9	281.3
132.5°	576.0	514.7	463.4	422.3	388.3	358.0	333.7	315.3	302.6	293.4	290.5
135°	565.3	513.6	470.9	434.4	402.3	373.0	349.8	331.2	316.0	307.1	303.5
137.5°	556.0	513.4	475.4	443.0	413.0	385.7	363.6	344.1	329.8	319.9	316.6
140°	551.1	512.7	478.9	448.6	420.2	393.5	372.1	353.4	338.3	328.5	325.8
142.5°	546.8	512.7	481.8	452.9	426.6	400.6	380.0	361.9	347.5	338.5	335.8
145°	539.5	511.0	483.4	457.5	433.5	410.4	390.8	373.9	361.4	352.5	349.8
147.5°	532.9	507.7	484.3	461.6	440.7	418.9	401.3	387.3	374.4	366.6	365.7
150°	527.9	505.6	484.3	463.8	444.3	424.6	407.7	394.4	383.7	376.6	375.7
152.5°	522.2	502.0	482.9	465.2	447.1	429.6	414.1	402.2	392.3	385.1	385.0
155°	513.6	496.8	480.7	466.5	451.3	436.2	422.8	413.0	404.1	398.8	397.9
157.5°	504.9	491.2	478.4	466.5	454.3	441.6	431.1	422.5	415.5	410.5	410.5
160°	498.6	487.0	476.3	466.5	455.8	445.1	435.3	428.2	422.0	418.4	418.4
162.5°	492.8	482.7	474.1	466.5	457.2	447.3	439.6	433.2	427.7	424.8	425.5
165°	483.4	476.3	470.0	464.7	457.5	449.5	444.3	439.8	435.3	433.5	433.5
167.5°	474.8	469.8	465.7	462.5	457.4	451.5	447.5	445.0	441.6	440.7	441.6
170°	469.1	465.6	462.9	461.1	456.6	452.2	449.5	447.8	445.1	444.3	445.1
172.5°	464.1	461.3	460.0	459.7	455.9	452.9	450.9	449.9	447.9	447.8	448.6
175°	458.4	456.6	456.6	457.5	454.9	453.1	453.1	452.2	451.3	451.3	452.2
177.5°	454.5	453.8	453.8	455.2	453.8	453.1	453.1	453.1	452.4	453.1	453.8
180°	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1



TEST NUMBER: P333005-940

CATALOG NUMBER: SA4XXRDIP-C1195D1035U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1
2.5°	1777.9	1783.0	1788.7	1799.6	1808.7	1812.7	1820.6	1826.3	1824.6	1832.6	1846.2
5°	1784.8	1804.1	1826.1	1849.0	1874.6	1896.0	1913.0	1930.1	1943.7	1960.0	1984.2
7.5°	1783.7	1817.9	1855.0	1896.0	1938.0	1974.2	2007.9	2042.0	2072.3	2105.5	2148.9
10°	1779.1	1824.7	1871.0	1924.4	1977.8	2028.4	2073.9	2116.7	2157.2	2200.7	2255.5
12.5°	1774.1	1826.4	1882.4	1946.6	2013.1	2073.9	2127.4	2189.0	2239.8	2295.8	2359.1
15°	1751.4	1821.9	1898.1	1981.4	2061.1	2143.0	2216.3	2291.8	2362.2	2429.2	2508.9
17.5°	1725.5	1806.8	1896.7	1995.0	2090.9	2190.4	2277.4	2372.5	2444.5	2534.4	2608.4
20°	1704.4	1792.0	1888.1	1998.4	2107.4	2217.7	2313.8	2410.7	2491.8	2582.2	2676.2
22.5°	1678.7	1774.9	1879.0	1993.3	2107.4	2227.9	2334.3	2430.6	2531.1	2633.0	2729.8
25°	1637.4	1737.1	1847.5	1972.8	2103.8	2227.0	2340.9	2460.5	2568.8	2679.1	2765.9
27.5°	1586.8	1691.5	1807.8	1937.1	2071.5	2197.6	2331.8	2459.2	2568.1	2674.3	2750.1
30°	1546.3	1656.7	1768.4	1899.5	2039.0	2174.3	2318.1	2445.5	2560.2	2655.6	2698.3
32.5°	1504.8	1609.4	1724.7	1857.3	2000.3	2145.8	2288.5	2418.8	2524.9	2582.1	2583.2
35°	1432.4	1530.7	1650.3	1780.6	1927.3	2085.3	2229.8	2358.0	2422.8	2427.8	2358.0
37.5°	1353.5	1443.7	1556.6	1687.0	1847.6	2004.8	2152.5	2237.9	2259.6	2187.1	2058.1
40°	1297.2	1380.5	1489.4	1623.3	1782.7	1945.1	2079.6	2142.2	2119.5	2002.0	1858.1
42.5°	1238.0	1315.5	1420.5	1552.6	1712.7	1876.7	1991.4	2024.9	1964.5	1828.9	1660.5
45°	1141.3	1212.5	1316.4	1449.6	1603.3	1757.1	1844.0	1826.8	1726.4	1565.6	1376.9
47.5°	1040.6	1109.4	1202.9	1326.1	1483.5	1616.2	1675.1	1623.5	1480.7	1303.7	1150.2
50°	973.9	1044.5	1130.6	1248.0	1391.9	1520.0	1557.7	1479.4	1320.6	1150.5	1009.5
52.5°	908.5	968.7	1053.1	1166.6	1304.1	1412.4	1432.4	1342.2	1178.3	1025.7	900.7
55°	808.8	863.6	934.8	1041.6	1160.5	1252.3	1241.6	1125.6	976.8	846.5	748.2
57.5°	712.4	753.7	819.5	919.5	1024.0	1085.6	1046.6	947.6	809.0	702.3	619.4
60°	648.6	687.1	748.2	835.8	927.6	962.5	929.8	822.3	712.7	615.1	545.4
62.5°	588.2	622.1	674.8	756.1	830.3	851.0	815.9	722.0	623.2	539.9	482.1
65°	500.5	531.8	576.7	634.4	685.6	695.5	672.8	576.7	501.9	432.1	392.3
67.5°	420.9	441.4	476.4	526.3	553.5	559.3	515.3	455.0	389.1	346.2	316.1
70°	367.4	381.6	414.4	441.4	463.5	464.2	423.7	375.2	324.7	289.8	267.7
72.5°	315.6	329.2	354.0	372.5	389.4	383.9	346.7	308.5	267.7	241.4	225.0
75°	243.5	255.6	268.4	277.0	277.0	269.8	242.8	214.3	190.8	175.1	170.1
77.5°	177.0	187.0	191.3	189.9	187.3	176.3	159.2	140.5	132.2	124.8	121.0
80°	138.8	143.1	144.5	141.0	136.7	123.9	112.4	104.7	96.8	94.0	92.6
82.5°	102.9	106.6	102.9	104.0	94.5	84.0	77.8	75.1	71.8	70.6	69.2
85°	54.8	54.1	52.7	49.1	42.7	41.3	40.6	39.9	38.4	39.1	37.7
87.5°	19.4	18.2	16.1	15.7	15.7	15.6	16.1	16.5	16.9	16.1	17.5
90°	2.7	5.4	6.2	7.1	7.1	12.5	12.5	14.3	16.1	15.2	16.1
92.5°	14.8	23.2	34.0	47.0	65.5	110.8	179.9	247.1	282.4	235.2	174.9
95°	32.0	40.9	52.5	73.9	111.3	188.7	334.7	547.5	725.5	746.0	659.6
97.5°	52.7	60.4	71.1	89.3	120.7	180.4	300.9	512.4	764.1	937.2	974.6
100°	67.7	73.9	84.5	101.5	130.0	182.5	283.1	464.7	715.7	943.6	1073.6
102.5°	83.3	88.8	98.8	115.0	142.0	189.6	278.1	432.7	655.2	890.2	1068.6
105°	106.8	111.3	122.0	137.9	163.8	206.5	280.4	405.0	584.0	793.2	997.0
107.5°	130.5	134.9	146.3	161.7	187.1	226.3	293.6	400.0	544.1	714.8	895.4
110°	146.9	151.3	162.0	178.1	202.1	241.2	303.5	401.4	530.6	675.6	834.1





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	162.6	167.7	177.7	193.7	217.8	255.5	314.2	405.7	524.1	653.6	789.3
115°	186.0	192.3	201.2	218.1	242.1	277.8	331.2	413.9	520.8	632.9	744.2
117.5°	209.4	214.9	224.7	240.5	265.5	299.3	348.4	422.7	519.9	623.7	722.1
120°	224.4	230.6	240.3	255.5	280.4	314.2	360.5	429.1	519.9	618.7	712.1
122.5°	238.5	244.8	253.9	270.5	294.6	328.5	371.9	435.5	519.2	613.0	703.6
125°	259.0	264.4	274.2	291.1	316.0	348.0	389.1	445.1	518.1	603.6	689.0
127.5°	274.9	281.3	292.5	310.1	335.3	366.2	403.8	452.7	516.1	590.9	671.2
130°	284.9	291.9	305.3	322.3	348.0	378.4	413.0	458.4	515.4	583.1	657.0
132.5°	293.4	302.6	315.3	333.7	358.0	388.3	422.3	463.4	514.7	576.0	642.0
135°	307.1	316.0	331.2	349.8	373.0	402.3	434.4	470.9	513.6	565.3	621.3
137.5°	319.9	329.8	344.1	363.6	385.7	413.0	443.0	475.4	513.4	556.0	602.7
140°	328.5	338.3	353.4	372.1	393.5	420.2	448.6	478.9	512.7	551.1	592.0
142.5°	338.5	347.5	361.9	380.0	400.6	426.6	452.9	481.8	512.7	546.8	582.0
145°	352.5	361.4	373.9	390.8	410.4	433.5	457.5	483.4	511.0	539.5	567.9
147.5°	366.6	374.4	387.3	401.3	418.9	440.7	461.6	484.3	507.7	532.9	556.3
150°	376.6	383.7	394.4	407.7	424.6	444.3	463.8	484.3	505.6	527.9	549.3
152.5°	385.1	392.3	402.2	414.1	429.6	447.1	465.2	482.9	502.0	522.2	541.4
155°	398.8	404.1	413.0	422.8	436.2	451.3	466.5	480.7	496.8	513.6	529.7
157.5°	410.5	415.5	422.5	431.1	441.6	454.3	466.5	478.4	491.2	504.9	517.0
160°	418.4	422.0	428.2	435.3	445.1	455.8	466.5	476.3	487.0	498.6	509.2
162.5°	424.8	427.7	433.2	439.6	447.3	457.2	466.5	474.1	482.7	492.8	501.3
165°	433.5	435.3	439.8	444.3	449.5	457.5	464.7	470.0	476.3	483.4	490.5
167.5°	440.7	441.6	445.0	447.5	451.5	457.4	462.5	465.7	469.8	474.8	480.0
170°	444.3	445.1	447.8	449.5	452.2	456.6	461.1	462.9	465.6	469.1	473.6
172.5°	447.8	447.9	449.9	450.9	452.9	455.9	459.7	460.0	461.3	464.1	467.9
175°	451.3	451.3	452.2	453.1	453.1	454.9	457.5	456.6	456.6	458.4	460.2
177.5°	453.1	452.4	453.1	453.1	453.1	453.8	455.2	453.8	453.8	454.5	455.2
180°	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1



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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°	16.5	16.1	16.7	16.2	16.4	15.7	16.2
90°	16.9	17.8	17.8	18.7	19.6	18.7	18.7
92.5°	131.6	104.7	86.9	76.4	71.6	68.6	68.6
95°	521.7	402.3	316.0	272.4	244.8	228.8	217.2
97.5°	923.3	836.2	743.3	679.4	625.8	599.1	580.6
100°	1091.4	1047.8	981.9	904.5	850.2	823.4	816.4
102.5°	1156.9	1169.6	1142.1	1094.6	1055.3	1027.2	1021.5
105°	1151.0	1239.1	1275.7	1277.5	1270.3	1257.8	1252.5
107.5°	1059.4	1183.5	1262.8	1306.8	1327.1	1336.1	1338.4
110°	988.1	1117.2	1215.1	1278.4	1315.7	1331.8	1339.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	925.4	1047.4	1145.3	1217.1	1262.3	1284.8	1297.7
115°	853.7	957.9	1043.3	1113.7	1167.1	1195.5	1202.7
117.5°	812.8	894.7	967.1	1027.2	1072.0	1100.8	1106.3
120°	795.0	866.2	929.3	980.1	1019.3	1042.4	1052.2
122.5°	783.5	848.4	903.7	946.6	980.1	999.7	1009.5
125°	765.5	827.0	875.9	911.6	937.4	954.3	959.7
127.5°	744.4	805.7	852.1	887.9	910.9	925.1	930.4
130°	727.3	787.8	835.0	871.5	893.8	908.0	913.4
132.5°	708.1	767.1	814.4	850.2	875.2	888.8	894.1
135°	679.2	733.5	778.0	813.7	838.6	852.8	858.2
137.5°	651.7	697.4	737.6	770.9	795.5	807.3	813.7
140°	633.8	673.9	711.2	742.4	762.1	774.5	781.6
142.5°	618.8	653.3	685.6	713.2	731.4	742.4	747.4
145°	598.2	624.9	649.9	672.1	687.2	696.2	700.6
147.5°	580.4	601.8	621.3	637.8	650.8	657.5	659.1
150°	569.7	587.5	603.6	617.8	629.4	634.7	635.6
152.5°	559.0	575.4	588.6	600.7	610.1	613.3	614.2
155°	543.9	557.2	567.9	576.8	584.0	586.7	586.7
157.5°	529.0	540.2	548.8	555.4	560.8	562.4	562.4
160°	519.0	528.8	535.9	541.3	546.6	547.5	547.5
162.5°	509.7	517.4	523.8	527.7	533.1	534.0	533.2
165°	495.9	502.0	506.5	510.1	513.6	512.7	511.8
167.5°	484.1	489.1	491.8	493.6	495.9	495.7	495.0
170°	476.3	479.8	482.5	484.3	485.2	484.3	484.3
172.5°	469.8	472.0	473.9	475.0	475.9	475.0	473.6
175°	461.1	462.9	462.9	462.9	464.7	462.9	461.1
177.5°	455.9	455.9	456.6	455.9	456.6	455.2	453.8
180°	453.1	453.1	453.1	453.1	453.1	453.1	453.1

(END OF REPORT)