

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: P333011-940

Luminaire Tested: **SA4XXRDIP-C1195D1205U940-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P333011-940  
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-C1195D1205U940-4F0-1E-UDD-A4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1205 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

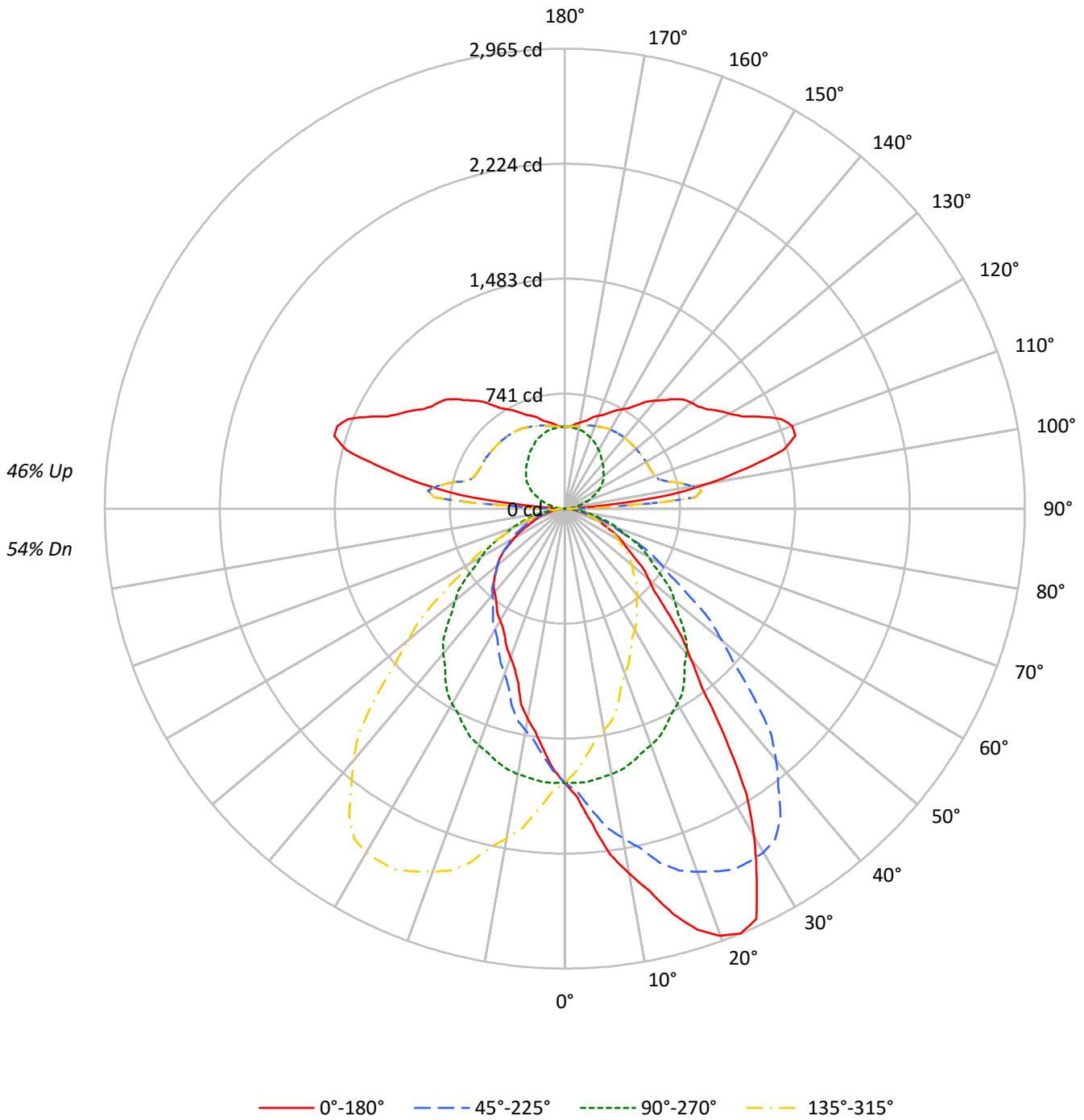
Lumens per Lamp: N/A  
Luminaire Lumens: 8305.4 lumens  
Efficiency: N/A  
Efficacy: 115.8 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 71.7  
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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60	54				54
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	53	52	51	46				46
2	91	84	78	73	84	78	73	68	67	63	60	57	54	52	48	46	44	40				40
3	83	74	67	61	77	69	63	58	59	55	51	51	47	44	43	40	38	34				34
4	76	66	58	52	70	61	54	49	53	48	44	45	42	38	38	35	33	30				30
5	70	59	51	45	65	55	48	43	48	42	38	41	37	33	35	32	29	26				26
6	65	53	45	39	60	49	42	37	43	38	33	37	33	30	32	28	26	23				23
7	60	48	40	34	56	45	38	33	39	34	30	34	30	26	29	26	23	21				21
8	56	44	36	31	52	41	34	29	36	30	26	31	27	24	27	23	21	18				18
9	52	40	32	27	48	37	31	26	33	27	24	29	24	21	25	21	19	17				17
10	49	37	29	25	45	34	28	24	30	25	21	27	22	19	23	20	17	15				15

**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	2.1
10°-20°	516.5	6.2
20°-30°	807.8	9.7
30°-40°	898.0	10.8
40°-50°	796.7	9.6
50°-60°	620.8	7.5
60°-70°	406.5	4.9
70°-80°	199.9	2.4
80°-90°	52.2	0.6
90°-100°	380.9	4.6
100°-110°	792.8	9.5
110°-120°	710.1	8.6
120°-130°	597.3	7.2
130°-140°	498.1	6.0
140°-150°	380.5	4.6
150°-160°	267.5	3.2
160°-170°	157.3	1.9
170°-180°	51.2	0.6
0°-30°	1495.5	18.0
0°-40°	2393.5	28.8
0°-60°	3811.0	45.9
0°-90°	4469.6	53.8
90°-120°	1883.9	22.7
90°-150°	3359.8	40.5
90°-180°	3836.0	46.2
0°-180°	8305.4	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°	22	1	22	1	22	19
95°	253	34	253	34	253	392
105°	1458	121	1458	121	1458	1441
115°	1400	214	1400	214	1400	1390
125°	1117	297	1117	297	1117	1015
135°	999	353	999	353	999	771
145°	816	407	816	407	816	517
155°	683	463	683	463	683	319
165°	596	505	596	505	596	171
175°	537	526	537	526	537	52
180°	527	527	527	527	527	



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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°	16.9	16.3	17.1	16.9	17.2	16.7	17.0	18.0	16.6	17.4	16.9
90°	21.8	21.8	22.8	21.8	20.7	20.7	19.7	18.6	17.7	18.6	16.6
92.5°	79.8	79.8	83.3	88.9	101.1	121.9	153.1	203.5	273.8	328.7	287.7
95°	252.8	266.3	285.0	317.1	367.8	468.3	607.2	767.8	868.3	844.5	637.2
97.5°	675.8	697.3	728.4	790.8	865.2	973.4	1074.7	1134.4	1090.9	889.5	596.4
100°	950.2	958.5	989.5	1052.8	1142.9	1219.6	1270.3	1249.6	1098.3	833.0	540.9
102.5°	1188.9	1195.5	1228.2	1274.1	1329.4	1361.3	1346.6	1243.8	1036.2	762.6	503.5
105°	1457.9	1464.1	1478.6	1486.9	1484.8	1442.3	1339.8	1160.5	923.2	679.8	471.4
107.5°	1557.8	1555.1	1544.7	1521.1	1469.9	1377.5	1233.1	1042.1	832.1	633.3	465.7
110°	1559.4	1550.2	1531.4	1487.9	1414.3	1300.4	1150.1	970.9	786.5	617.6	467.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1510.6	1495.4	1469.3	1416.7	1333.1	1219.1	1077.2	918.6	760.7	610.1	472.3
115°	1399.9	1391.6	1358.4	1296.3	1214.4	1114.9	993.7	866.2	736.7	606.2	481.8
117.5°	1287.7	1281.3	1247.8	1195.5	1125.7	1041.3	946.0	840.5	725.9	605.1	492.0
120°	1224.8	1213.4	1186.4	1140.9	1081.7	1008.2	925.3	828.9	720.1	605.1	499.4
122.5°	1175.0	1163.6	1140.9	1101.9	1052.0	987.5	912.0	818.9	713.5	604.3	506.9
125°	1117.0	1110.8	1091.1	1061.0	1019.6	962.6	891.1	802.0	702.5	603.1	518.1
127.5°	1083.0	1076.8	1060.2	1033.5	991.8	937.7	866.5	781.2	687.8	600.7	527.0
130°	1063.1	1056.9	1040.3	1014.4	972.0	917.0	846.6	764.7	678.7	599.9	533.6
132.5°	1040.7	1034.5	1018.8	989.5	947.9	893.0	824.2	747.3	670.4	599.1	539.4
135°	998.9	992.7	976.1	947.1	905.6	853.8	790.6	723.3	658.0	597.9	548.1
137.5°	947.1	939.6	926.0	897.3	858.5	811.7	758.5	701.5	647.2	597.6	553.3
140°	909.7	901.4	887.0	864.2	827.9	784.3	737.7	689.0	641.4	596.8	557.5
142.5°	870.0	864.2	851.3	830.2	798.1	760.4	720.3	677.4	636.4	596.8	560.8
145°	815.5	810.3	800.0	782.3	756.4	727.4	696.3	661.1	627.9	594.8	562.7
147.5°	767.1	765.4	757.4	742.3	723.3	700.4	675.6	647.6	620.3	591.0	563.7
150°	739.9	738.8	732.5	719.1	702.5	683.9	663.2	639.4	614.5	588.5	563.7
152.5°	715.0	713.9	710.2	699.2	685.1	669.8	650.7	630.2	607.8	584.4	562.0
155°	682.9	682.9	679.8	671.5	661.1	648.6	633.1	616.5	597.9	578.2	559.5
157.5°	654.7	654.7	652.8	646.6	638.7	628.7	615.7	601.8	587.7	571.8	556.9
160°	637.2	637.2	636.2	630.0	623.8	615.5	604.0	592.7	580.2	566.8	554.4
162.5°	620.6	621.5	620.5	614.2	609.7	602.3	593.3	583.5	573.6	561.8	551.9
165°	595.8	596.8	597.9	593.7	589.6	584.4	577.1	571.0	562.7	554.4	547.1
167.5°	576.1	576.9	577.1	574.4	572.4	569.3	563.5	558.7	552.7	546.9	542.2
170°	563.7	563.7	564.7	563.7	561.6	558.5	554.4	551.3	546.1	541.9	538.8
172.5°	551.3	552.9	553.9	552.9	551.6	549.4	546.9	544.6	540.3	536.9	535.5
175°	536.7	538.8	540.9	538.8	538.8	538.8	536.7	535.7	533.6	531.5	531.5
177.5°	528.2	529.9	531.5	530.7	531.5	530.7	530.7	529.9	529.1	528.2	528.2
180°	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4



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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°	16.6	16.0	15.9	15.9	16.2	18.4	19.4	19.5	18.3	17.2	15.7
90°	14.5	14.5	8.3	8.3	7.2	6.2	3.1	1.1	3.1	6.2	7.2
92.5°	209.3	128.9	76.2	54.8	39.6	26.9	17.2	11.8	17.2	26.9	39.6
95°	389.6	219.6	129.6	86.0	61.2	47.7	37.3	34.2	37.3	47.7	61.2
97.5°	350.3	209.9	140.5	104.1	82.7	70.3	61.3	61.3	61.3	70.3	82.7
100°	329.5	212.4	151.3	118.2	98.4	86.0	78.7	78.7	78.7	86.0	98.4
102.5°	323.7	220.7	165.4	133.8	115.0	103.4	97.0	95.3	97.0	103.4	115.0
105°	326.4	240.4	190.6	160.6	142.0	129.6	124.3	121.3	124.3	129.6	142.0
107.5°	341.7	263.4	217.8	188.2	170.3	157.1	151.9	149.8	151.9	157.1	170.3
110°	353.3	280.8	235.2	207.2	188.6	176.1	170.9	168.9	170.9	176.1	188.6





TEST NUMBER: P333011-940

CATALOG NUMBER: SA4XXRDIP-C1195D1205U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	365.8	297.4	253.4	225.5	206.8	195.2	189.2	187.2	189.2	195.2	206.8
115°	385.5	323.2	281.9	253.9	234.2	223.8	216.6	213.5	216.6	223.8	234.2
117.5°	405.6	348.4	309.0	280.0	261.5	250.1	243.7	240.8	243.7	250.1	261.5
120°	419.6	365.8	326.4	297.4	279.7	268.4	261.1	259.0	261.1	268.4	279.7
122.5°	432.9	382.4	343.0	314.8	295.5	285.0	277.7	275.6	277.7	285.0	295.5
125°	452.8	405.1	367.8	338.9	319.1	307.7	301.5	297.4	301.5	307.7	319.1
127.5°	470.0	426.2	390.2	361.0	340.5	327.4	319.9	316.6	319.9	327.4	340.5
130°	480.8	440.4	405.1	375.1	355.4	339.8	331.5	327.4	331.5	339.8	355.4
132.5°	491.6	452.0	416.8	388.3	367.0	352.3	341.5	338.2	341.5	352.3	367.0
135°	505.7	468.3	434.2	407.2	385.5	367.8	357.5	353.3	357.5	367.8	385.5
137.5°	515.6	480.8	448.9	423.2	400.6	383.8	372.4	368.5	372.4	383.8	400.6
140°	522.2	489.1	458.0	433.1	411.3	393.8	382.4	379.2	382.4	393.8	411.3
142.5°	527.2	496.5	466.3	442.2	421.3	404.5	394.0	390.8	394.0	404.5	421.3
145°	532.6	504.6	477.7	454.9	435.2	420.7	410.4	407.2	410.4	420.7	435.2
147.5°	537.3	512.9	487.6	467.1	450.8	435.8	426.7	425.6	426.7	435.8	450.8
150°	539.8	517.0	494.3	474.6	459.1	446.6	438.3	437.3	438.3	446.6	459.1
152.5°	541.5	520.4	500.1	482.1	468.1	456.6	448.3	448.0	448.3	456.6	468.1
155°	543.0	525.3	507.7	492.2	480.8	470.4	464.2	463.2	464.2	470.4	480.8
157.5°	543.0	528.9	514.0	501.7	491.8	483.7	477.9	477.9	477.9	483.7	491.8
160°	543.0	530.5	518.1	506.7	498.4	491.2	487.0	487.0	487.0	491.2	498.4
162.5°	543.0	532.2	520.6	511.7	504.2	497.8	494.5	495.3	494.5	497.8	504.2
165°	540.9	532.6	523.3	517.0	511.8	506.7	504.6	504.6	504.6	506.7	511.8
167.5°	538.4	532.4	525.6	520.8	517.9	514.0	512.9	514.0	512.9	514.0	517.9
170°	536.7	531.5	526.4	523.3	521.2	518.1	517.0	518.1	517.0	518.1	521.2
172.5°	535.1	530.7	527.2	525.0	523.7	521.4	521.2	522.2	521.2	521.4	523.7
175°	532.6	529.5	527.4	527.4	526.4	525.3	525.3	526.4	525.3	525.3	526.4
177.5°	529.9	528.2	527.4	527.4	527.4	526.6	527.4	528.2	527.4	526.6	527.4
180°	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4



TEST NUMBER: P333011-940

CATALOG NUMBER: SA4XXRDIP-C1195D1205U940-4F0-1E-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°	15.9	15.3	16.6	15.4	16.4	16.9	16.1	16.2	17.0	16.1	16.1
90°	8.3	8.3	14.5	14.5	16.6	18.6	17.7	18.6	19.7	20.7	20.7
92.5°	54.8	76.2	128.9	209.3	287.7	328.7	273.8	203.5	153.1	121.9	101.1
95°	86.0	129.6	219.6	389.6	637.2	844.5	868.3	767.8	607.2	468.3	367.8
97.5°	104.1	140.5	209.9	350.3	596.4	889.5	1090.9	1134.4	1074.7	973.4	865.2
100°	118.2	151.3	212.4	329.5	540.9	833.0	1098.3	1249.6	1270.3	1219.6	1142.9
102.5°	133.8	165.4	220.7	323.7	503.5	762.6	1036.2	1243.8	1346.6	1361.3	1329.4
105°	160.6	190.6	240.4	326.4	471.4	679.8	923.2	1160.5	1339.8	1442.3	1484.8
107.5°	188.2	217.8	263.4	341.7	465.7	633.3	832.1	1042.1	1233.1	1377.5	1469.9
110°	207.2	235.2	280.8	353.3	467.3	617.6	786.5	970.9	1150.1	1300.4	1414.3



TEST NUMBER: P333011-940

CATALOG NUMBER: SA4XXRDIP-C1195D1205U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	225.5	253.4	297.4	365.8	472.3	610.1	760.7	918.6	1077.2	1219.1	1333.1
115°	253.9	281.9	323.2	385.5	481.8	606.2	736.7	866.2	993.7	1114.9	1214.4
117.5°	280.0	309.0	348.4	405.6	492.0	605.1	725.9	840.5	946.0	1041.3	1125.7
120°	297.4	326.4	365.8	419.6	499.4	605.1	720.1	828.9	925.3	1008.2	1081.7
122.5°	314.8	343.0	382.4	432.9	506.9	604.3	713.5	818.9	912.0	987.5	1052.0
125°	338.9	367.8	405.1	452.8	518.1	603.1	702.5	802.0	891.1	962.6	1019.6
127.5°	361.0	390.2	426.2	470.0	527.0	600.7	687.8	781.2	866.5	937.7	991.8
130°	375.1	405.1	440.4	480.8	533.6	599.9	678.7	764.7	846.6	917.0	972.0
132.5°	388.3	416.8	452.0	491.6	539.4	599.1	670.4	747.3	824.2	893.0	947.9
135°	407.2	434.2	468.3	505.7	548.1	597.9	658.0	723.3	790.6	853.8	905.6
137.5°	423.2	448.9	480.8	515.6	553.3	597.6	647.2	701.5	758.5	811.7	858.5
140°	433.1	458.0	489.1	522.2	557.5	596.8	641.4	689.0	737.7	784.3	827.9
142.5°	442.2	466.3	496.5	527.2	560.8	596.8	636.4	677.4	720.3	760.4	798.1
145°	454.9	477.7	504.6	532.6	562.7	594.8	627.9	661.1	696.3	727.4	756.4
147.5°	467.1	487.6	512.9	537.3	563.7	591.0	620.3	647.6	675.6	700.4	723.3
150°	474.6	494.3	517.0	539.8	563.7	588.5	614.5	639.4	663.2	683.9	702.5
152.5°	482.1	500.1	520.4	541.5	562.0	584.4	607.8	630.2	650.7	669.8	685.1
155°	492.2	507.7	525.3	543.0	559.5	578.2	597.9	616.5	633.1	648.6	661.1
157.5°	501.7	514.0	528.9	543.0	556.9	571.8	587.7	601.8	615.7	628.7	638.7
160°	506.7	518.1	530.5	543.0	554.4	566.8	580.2	592.7	604.0	615.5	623.8
162.5°	511.7	520.6	532.2	543.0	551.9	561.8	573.6	583.5	593.3	602.3	609.7
165°	517.0	523.3	532.6	540.9	547.1	554.4	562.7	571.0	577.1	584.4	589.6
167.5°	520.8	525.6	532.4	538.4	542.2	546.9	552.7	558.7	563.5	569.3	572.4
170°	523.3	526.4	531.5	536.7	538.8	541.9	546.1	551.3	554.4	558.5	561.6
172.5°	525.0	527.2	530.7	535.1	535.5	536.9	540.3	544.6	546.9	549.4	551.6
175°	527.4	527.4	529.5	532.6	531.5	531.5	533.6	535.7	536.7	538.8	538.8
177.5°	527.4	527.4	528.2	529.9	528.2	528.2	529.1	529.9	530.7	530.7	531.5
180°	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4



TEST NUMBER: P333011-940

CATALOG NUMBER: SA4XXRDIP-C1195D1205U940-4F0-1E-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°	17.5	17.1	16.3	16.9	16.3	17.1	17.5	16.1	16.1	17.0	16.2
90°	21.8	22.8	21.8	21.8	21.8	22.8	21.8	20.7	20.7	19.7	18.6
92.5°	88.9	83.3	79.8	79.8	79.8	83.3	88.9	101.1	121.9	153.1	203.5
95°	317.1	285.0	266.3	252.8	266.3	285.0	317.1	367.8	468.3	607.2	767.8
97.5°	790.8	728.4	697.3	675.8	697.3	728.4	790.8	865.2	973.4	1074.7	1134.4
100°	1052.8	989.5	958.5	950.2	958.5	989.5	1052.8	1142.9	1219.6	1270.3	1249.6
102.5°	1274.1	1228.2	1195.5	1188.9	1195.5	1228.2	1274.1	1329.4	1361.3	1346.6	1243.8
105°	1486.9	1478.6	1464.1	1457.9	1464.1	1478.6	1486.9	1484.8	1442.3	1339.8	1160.5
107.5°	1521.1	1544.7	1555.1	1557.8	1555.1	1544.7	1521.1	1469.9	1377.5	1233.1	1042.1
110°	1487.9	1531.4	1550.2	1559.4	1550.2	1531.4	1487.9	1414.3	1300.4	1150.1	970.9



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1416.7	1469.3	1495.4	1510.6	1495.4	1469.3	1416.7	1333.1	1219.1	1077.2	918.6
115°	1296.3	1358.4	1391.6	1399.9	1391.6	1358.4	1296.3	1214.4	1114.9	993.7	866.2
117.5°	1195.5	1247.8	1281.3	1287.7	1281.3	1247.8	1195.5	1125.7	1041.3	946.0	840.5
120°	1140.9	1186.4	1213.4	1224.8	1213.4	1186.4	1140.9	1081.7	1008.2	925.3	828.9
122.5°	1101.9	1140.9	1163.6	1175.0	1163.6	1140.9	1101.9	1052.0	987.5	912.0	818.9
125°	1061.0	1091.1	1110.8	1117.0	1110.8	1091.1	1061.0	1019.6	962.6	891.1	802.0
127.5°	1033.5	1060.2	1076.8	1083.0	1076.8	1060.2	1033.5	991.8	937.7	866.5	781.2
130°	1014.4	1040.3	1056.9	1063.1	1056.9	1040.3	1014.4	972.0	917.0	846.6	764.7
132.5°	989.5	1018.8	1034.5	1040.7	1034.5	1018.8	989.5	947.9	893.0	824.2	747.3
135°	947.1	976.1	992.7	998.9	992.7	976.1	947.1	905.6	853.8	790.6	723.3
137.5°	897.3	926.0	939.6	947.1	939.6	926.0	897.3	858.5	811.7	758.5	701.5
140°	864.2	887.0	901.4	909.7	901.4	887.0	864.2	827.9	784.3	737.7	689.0
142.5°	830.2	851.3	864.2	870.0	864.2	851.3	830.2	798.1	760.4	720.3	677.4
145°	782.3	800.0	810.3	815.5	810.3	800.0	782.3	756.4	727.4	696.3	661.1
147.5°	742.3	757.4	765.4	767.1	765.4	757.4	742.3	723.3	700.4	675.6	647.6
150°	719.1	732.5	738.8	739.9	738.8	732.5	719.1	702.5	683.9	663.2	639.4
152.5°	699.2	710.2	713.9	715.0	713.9	710.2	699.2	685.1	669.8	650.7	630.2
155°	671.5	679.8	682.9	682.9	682.9	679.8	671.5	661.1	648.6	633.1	616.5
157.5°	646.6	652.8	654.7	654.7	654.7	652.8	646.6	638.7	628.7	615.7	601.8
160°	630.0	636.2	637.2	637.2	637.2	636.2	630.0	623.8	615.5	604.0	592.7
162.5°	614.2	620.5	621.5	620.6	621.5	620.5	614.2	609.7	602.3	593.3	583.5
165°	593.7	597.9	596.8	595.8	596.8	597.9	593.7	589.6	584.4	577.1	571.0
167.5°	574.4	577.1	576.9	576.1	576.9	577.1	574.4	572.4	569.3	563.5	558.7
170°	563.7	564.7	563.7	563.7	563.7	564.7	563.7	561.6	558.5	554.4	551.3
172.5°	552.9	553.9	552.9	551.3	552.9	553.9	552.9	551.6	549.4	546.9	544.6
175°	538.8	540.9	538.8	536.7	538.8	540.9	538.8	538.8	538.8	536.7	535.7
177.5°	530.7	531.5	529.9	528.2	529.9	531.5	530.7	531.5	530.7	530.7	529.9
180°	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4



TEST NUMBER: P333011-940

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1	1767.1
2.5°	1690.1	1694.2	1703.3	1713.5	1722.1	1729.5	1735.2	1743.1	1750.5	1760.8	1770.5
5°	1587.7	1597.6	1611.9	1629.0	1650.3	1664.6	1682.3	1698.0	1720.8	1743.6	1765.7
7.5°	1497.6	1508.6	1529.6	1553.2	1578.5	1601.9	1623.0	1650.6	1680.8	1714.0	1751.0
10°	1439.6	1451.7	1476.6	1503.6	1533.6	1556.3	1584.8	1617.6	1651.7	1692.3	1737.9
12.5°	1387.1	1398.7	1428.7	1456.3	1487.4	1512.4	1545.5	1578.9	1624.4	1668.4	1720.2
15°	1285.0	1315.7	1349.9	1382.6	1419.6	1450.3	1490.1	1524.3	1567.7	1629.7	1688.7
17.5°	1171.7	1204.3	1246.8	1297.4	1347.0	1384.9	1425.3	1467.8	1519.5	1582.7	1650.9
20°	1105.6	1132.0	1179.0	1235.2	1292.9	1345.6	1382.6	1429.6	1483.0	1551.3	1621.8
22.5°	1056.1	1078.4	1115.2	1171.4	1233.7	1294.9	1342.2	1388.6	1447.7	1516.0	1592.8
25°	981.8	1006.0	1038.0	1076.5	1147.6	1212.5	1274.4	1327.8	1390.4	1458.7	1544.2
27.5°	920.0	941.0	970.4	1010.4	1058.3	1129.7	1204.8	1265.7	1329.9	1403.3	1488.8
30°	883.5	900.6	924.8	965.4	1010.9	1075.0	1151.2	1222.4	1287.2	1363.4	1452.4
32.5°	845.3	863.6	887.3	919.3	968.2	1022.1	1098.2	1176.3	1245.1	1322.9	1410.2
35°	794.5	808.8	830.1	862.9	907.0	954.0	1021.6	1102.1	1174.7	1258.0	1341.3
37.5°	743.2	759.9	776.8	805.9	842.1	892.6	948.1	1030.2	1110.6	1186.7	1268.0
40°	714.1	724.1	742.5	766.1	804.5	849.4	901.3	981.8	1062.2	1137.7	1219.6
42.5°	681.6	692.8	708.4	731.9	766.3	810.0	860.9	930.5	1014.4	1087.6	1162.1
45°	636.5	642.9	658.5	678.5	706.9	751.1	798.1	860.1	939.1	1008.8	1074.3
47.5°	590.9	596.5	606.3	624.6	656.4	691.9	735.8	791.4	860.8	930.5	985.9
50°	559.5	564.5	573.8	590.9	619.4	654.2	697.7	747.5	809.5	876.4	922.7
52.5°	528.2	531.0	539.7	559.0	582.9	617.2	656.1	702.0	759.9	815.5	862.3
55°	478.4	484.8	490.5	504.8	527.5	560.3	595.2	638.6	683.5	730.5	770.3
57.5°	426.4	433.5	441.7	454.2	472.3	502.7	534.1	569.3	607.6	646.6	680.0
60°	392.3	398.7	405.8	420.1	436.4	460.7	494.8	525.4	554.6	590.2	623.7
62.5°	358.6	365.1	373.4	384.8	400.6	423.7	452.1	478.8	509.1	540.1	565.0
65°	309.0	314.0	320.4	331.1	346.0	366.7	390.1	410.8	437.8	460.7	483.4
67.5°	254.5	264.0	272.4	281.1	293.7	313.0	329.9	349.7	368.1	385.0	405.8
70°	218.6	229.3	237.1	246.3	258.4	274.8	291.1	304.7	319.7	336.0	354.5
72.5°	188.4	196.8	202.9	212.8	223.7	238.9	254.1	265.4	277.5	288.7	306.7
75°	148.8	152.4	156.7	164.4	174.4	185.8	198.0	207.9	215.0	225.0	237.8
77.5°	106.9	113.8	116.6	122.2	129.3	136.4	144.4	152.8	159.6	163.2	173.0
80°	81.9	84.7	87.6	95.4	99.7	106.8	112.4	120.3	123.1	126.7	136.0
82.5°	63.7	65.4	67.1	69.2	71.8	78.9	84.6	89.5	92.4	93.7	100.7
85°	37.0	37.7	38.4	39.1	39.9	39.9	42.7	46.3	51.3	51.3	53.4
87.5°	16.1	16.9	16.4	15.4	16.6	15.3	15.9	15.7	17.2	18.3	19.5
90°	17.7	18.6	16.6	14.5	14.5	8.3	8.3	7.2	6.2	3.1	1.1
92.5°	273.8	328.7	287.7	209.3	128.9	76.2	54.8	39.6	26.9	17.2	11.8
95°	868.3	844.5	637.2	389.6	219.6	129.6	86.0	61.2	47.7	37.3	34.2
97.5°	1090.9	889.5	596.4	350.3	209.9	140.5	104.1	82.7	70.3	61.3	61.3
100°	1098.3	833.0	540.9	329.5	212.4	151.3	118.2	98.4	86.0	78.7	78.7
102.5°	1036.2	762.6	503.5	323.7	220.7	165.4	133.8	115.0	103.4	97.0	95.3
105°	923.2	679.8	471.4	326.4	240.4	190.6	160.6	142.0	129.6	124.3	121.3
107.5°	832.1	633.3	465.7	341.7	263.4	217.8	188.2	170.3	157.1	151.9	149.8
110°	786.5	617.6	467.3	353.3	280.8	235.2	207.2	188.6	176.1	170.9	168.9



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	760.7	610.1	472.3	365.8	297.4	253.4	225.5	206.8	195.2	189.2	187.2
115°	736.7	606.2	481.8	385.5	323.2	281.9	253.9	234.2	223.8	216.6	213.5
117.5°	725.9	605.1	492.0	405.6	348.4	309.0	280.0	261.5	250.1	243.7	240.8
120°	720.1	605.1	499.4	419.6	365.8	326.4	297.4	279.7	268.4	261.1	259.0
122.5°	713.5	604.3	506.9	432.9	382.4	343.0	314.8	295.5	285.0	277.7	275.6
125°	702.5	603.1	518.1	452.8	405.1	367.8	338.9	319.1	307.7	301.5	297.4
127.5°	687.8	600.7	527.0	470.0	426.2	390.2	361.0	340.5	327.4	319.9	316.6
130°	678.7	599.9	533.6	480.8	440.4	405.1	375.1	355.4	339.8	331.5	327.4
132.5°	670.4	599.1	539.4	491.6	452.0	416.8	388.3	367.0	352.3	341.5	338.2
135°	658.0	597.9	548.1	505.7	468.3	434.2	407.2	385.5	367.8	357.5	353.3
137.5°	647.2	597.6	553.3	515.6	480.8	448.9	423.2	400.6	383.8	372.4	368.5
140°	641.4	596.8	557.5	522.2	489.1	458.0	433.1	411.3	393.8	382.4	379.2
142.5°	636.4	596.8	560.8	527.2	496.5	466.3	442.2	421.3	404.5	394.0	390.8
145°	627.9	594.8	562.7	532.6	504.6	477.7	454.9	435.2	420.7	410.4	407.2
147.5°	620.3	591.0	563.7	537.3	512.9	487.6	467.1	450.8	435.8	426.7	425.6
150°	614.5	588.5	563.7	539.8	517.0	494.3	474.6	459.1	446.6	438.3	437.3
152.5°	607.8	584.4	562.0	541.5	520.4	500.1	482.1	468.1	456.6	448.3	448.0
155°	597.9	578.2	559.5	543.0	525.3	507.7	492.2	480.8	470.4	464.2	463.2
157.5°	587.7	571.8	556.9	543.0	528.9	514.0	501.7	491.8	483.7	477.9	477.9
160°	580.2	566.8	554.4	543.0	530.5	518.1	506.7	498.4	491.2	487.0	487.0
162.5°	573.6	561.8	551.9	543.0	532.2	520.6	511.7	504.2	497.8	494.5	495.3
165°	562.7	554.4	547.1	540.9	532.6	523.3	517.0	511.8	506.7	504.6	504.6
167.5°	552.7	546.9	542.2	538.4	532.4	525.6	520.8	517.9	514.0	512.9	514.0
170°	546.1	541.9	538.8	536.7	531.5	526.4	523.3	521.2	518.1	517.0	518.1
172.5°	540.3	536.9	535.5	535.1	530.7	527.2	525.0	523.7	521.4	521.2	522.2
175°	533.6	531.5	531.5	532.6	529.5	527.4	527.4	526.4	525.3	525.3	526.4
177.5°	529.1	528.2	528.2	529.9	528.2	527.4	527.4	527.4	526.6	527.4	528.2
180°	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4



TEST NUMBER: P333011-940

CATALOG NUMBER: SA4XXRDIP-C1195D1205U940-4F0-1E-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	18.4	16.2	15.9	15.9	16.0	16.6	16.9	17.4	16.6	18.0
90°	3.1	6.2	7.2	8.3	8.3	14.5	14.5	16.6	18.6	17.7	18.6
92.5°	17.2	26.9	39.6	54.8	76.2	128.9	209.3	287.7	328.7	273.8	203.5
95°	37.3	47.7	61.2	86.0	129.6	219.6	389.6	637.2	844.5	868.3	767.8
97.5°	61.3	70.3	82.7	104.1	140.5	209.9	350.3	596.4	889.5	1090.9	1134.4
100°	78.7	86.0	98.4	118.2	151.3	212.4	329.5	540.9	833.0	1098.3	1249.6
102.5°	97.0	103.4	115.0	133.8	165.4	220.7	323.7	503.5	762.6	1036.2	1243.8
105°	124.3	129.6	142.0	160.6	190.6	240.4	326.4	471.4	679.8	923.2	1160.5
107.5°	151.9	157.1	170.3	188.2	217.8	263.4	341.7	465.7	633.3	832.1	1042.1
110°	170.9	176.1	188.6	207.2	235.2	280.8	353.3	467.3	617.6	786.5	970.9





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	189.2	195.2	206.8	225.5	253.4	297.4	365.8	472.3	610.1	760.7	918.6
115°	216.6	223.8	234.2	253.9	281.9	323.2	385.5	481.8	606.2	736.7	866.2
117.5°	243.7	250.1	261.5	280.0	309.0	348.4	405.6	492.0	605.1	725.9	840.5
120°	261.1	268.4	279.7	297.4	326.4	365.8	419.6	499.4	605.1	720.1	828.9
122.5°	277.7	285.0	295.5	314.8	343.0	382.4	432.9	506.9	604.3	713.5	818.9
125°	301.5	307.7	319.1	338.9	367.8	405.1	452.8	518.1	603.1	702.5	802.0
127.5°	319.9	327.4	340.5	361.0	390.2	426.2	470.0	527.0	600.7	687.8	781.2
130°	331.5	339.8	355.4	375.1	405.1	440.4	480.8	533.6	599.9	678.7	764.7
132.5°	341.5	352.3	367.0	388.3	416.8	452.0	491.6	539.4	599.1	670.4	747.3
135°	357.5	367.8	385.5	407.2	434.2	468.3	505.7	548.1	597.9	658.0	723.3
137.5°	372.4	383.8	400.6	423.2	448.9	480.8	515.6	553.3	597.6	647.2	701.5
140°	382.4	393.8	411.3	433.1	458.0	489.1	522.2	557.5	596.8	641.4	689.0
142.5°	394.0	404.5	421.3	442.2	466.3	496.5	527.2	560.8	596.8	636.4	677.4
145°	410.4	420.7	435.2	454.9	477.7	504.6	532.6	562.7	594.8	627.9	661.1
147.5°	426.7	435.8	450.8	467.1	487.6	512.9	537.3	563.7	591.0	620.3	647.6
150°	438.3	446.6	459.1	474.6	494.3	517.0	539.8	563.7	588.5	614.5	639.4
152.5°	448.3	456.6	468.1	482.1	500.1	520.4	541.5	562.0	584.4	607.8	630.2
155°	464.2	470.4	480.8	492.2	507.7	525.3	543.0	559.5	578.2	597.9	616.5
157.5°	477.9	483.7	491.8	501.7	514.0	528.9	543.0	556.9	571.8	587.7	601.8
160°	487.0	491.2	498.4	506.7	518.1	530.5	543.0	554.4	566.8	580.2	592.7
162.5°	494.5	497.8	504.2	511.7	520.6	532.2	543.0	551.9	561.8	573.6	583.5
165°	504.6	506.7	511.8	517.0	523.3	532.6	540.9	547.1	554.4	562.7	571.0
167.5°	512.9	514.0	517.9	520.8	525.6	532.4	538.4	542.2	546.9	552.7	558.7
170°	517.0	518.1	521.2	523.3	526.4	531.5	536.7	538.8	541.9	546.1	551.3
172.5°	521.2	521.4	523.7	525.0	527.2	530.7	535.1	535.5	536.9	540.3	544.6
175°	525.3	525.3	526.4	527.4	527.4	529.5	532.6	531.5	531.5	533.6	535.7
177.5°	527.4	526.6	527.4	527.4	527.4	528.2	529.9	528.2	528.2	529.1	529.9
180°	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4



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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°	17.0	16.7	17.2	16.9	17.1	16.3	16.9
90°	19.7	20.7	20.7	21.8	22.8	21.8	21.8
92.5°	153.1	121.9	101.1	88.9	83.3	79.8	79.8
95°	607.2	468.3	367.8	317.1	285.0	266.3	252.8
97.5°	1074.7	973.4	865.2	790.8	728.4	697.3	675.8
100°	1270.3	1219.6	1142.9	1052.8	989.5	958.5	950.2
102.5°	1346.6	1361.3	1329.4	1274.1	1228.2	1195.5	1188.9
105°	1339.8	1442.3	1484.8	1486.9	1478.6	1464.1	1457.9
107.5°	1233.1	1377.5	1469.9	1521.1	1544.7	1555.1	1557.8
110°	1150.1	1300.4	1414.3	1487.9	1531.4	1550.2	1559.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1077.2	1219.1	1333.1	1416.7	1469.3	1495.4	1510.6
115°	993.7	1114.9	1214.4	1296.3	1358.4	1391.6	1399.9
117.5°	946.0	1041.3	1125.7	1195.5	1247.8	1281.3	1287.7
120°	925.3	1008.2	1081.7	1140.9	1186.4	1213.4	1224.8
122.5°	912.0	987.5	1052.0	1101.9	1140.9	1163.6	1175.0
125°	891.1	962.6	1019.6	1061.0	1091.1	1110.8	1117.0
127.5°	866.5	937.7	991.8	1033.5	1060.2	1076.8	1083.0
130°	846.6	917.0	972.0	1014.4	1040.3	1056.9	1063.1
132.5°	824.2	893.0	947.9	989.5	1018.8	1034.5	1040.7
135°	790.6	853.8	905.6	947.1	976.1	992.7	998.9
137.5°	758.5	811.7	858.5	897.3	926.0	939.6	947.1
140°	737.7	784.3	827.9	864.2	887.0	901.4	909.7
142.5°	720.3	760.4	798.1	830.2	851.3	864.2	870.0
145°	696.3	727.4	756.4	782.3	800.0	810.3	815.5
147.5°	675.6	700.4	723.3	742.3	757.4	765.4	767.1
150°	663.2	683.9	702.5	719.1	732.5	738.8	739.9
152.5°	650.7	669.8	685.1	699.2	710.2	713.9	715.0
155°	633.1	648.6	661.1	671.5	679.8	682.9	682.9
157.5°	615.7	628.7	638.7	646.6	652.8	654.7	654.7
160°	604.0	615.5	623.8	630.0	636.2	637.2	637.2
162.5°	593.3	602.3	609.7	614.2	620.5	621.5	620.6
165°	577.1	584.4	589.6	593.7	597.9	596.8	595.8
167.5°	563.5	569.3	572.4	574.4	577.1	576.9	576.1
170°	554.4	558.5	561.6	563.7	564.7	563.7	563.7
172.5°	546.9	549.4	551.6	552.9	553.9	552.9	551.3
175°	536.7	538.8	538.8	538.8	540.9	538.8	536.7
177.5°	530.7	530.7	531.5	530.7	531.5	529.9	528.2
180°	527.4	527.4	527.4	527.4	527.4	527.4	527.4

(END OF REPORT)