

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: P332708-935

Luminaire Tested: **SA4XXDIP-C1195D1205U935-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332708-935
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: SA4XXDIP-C1195D1205U935-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1205 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8285.0 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

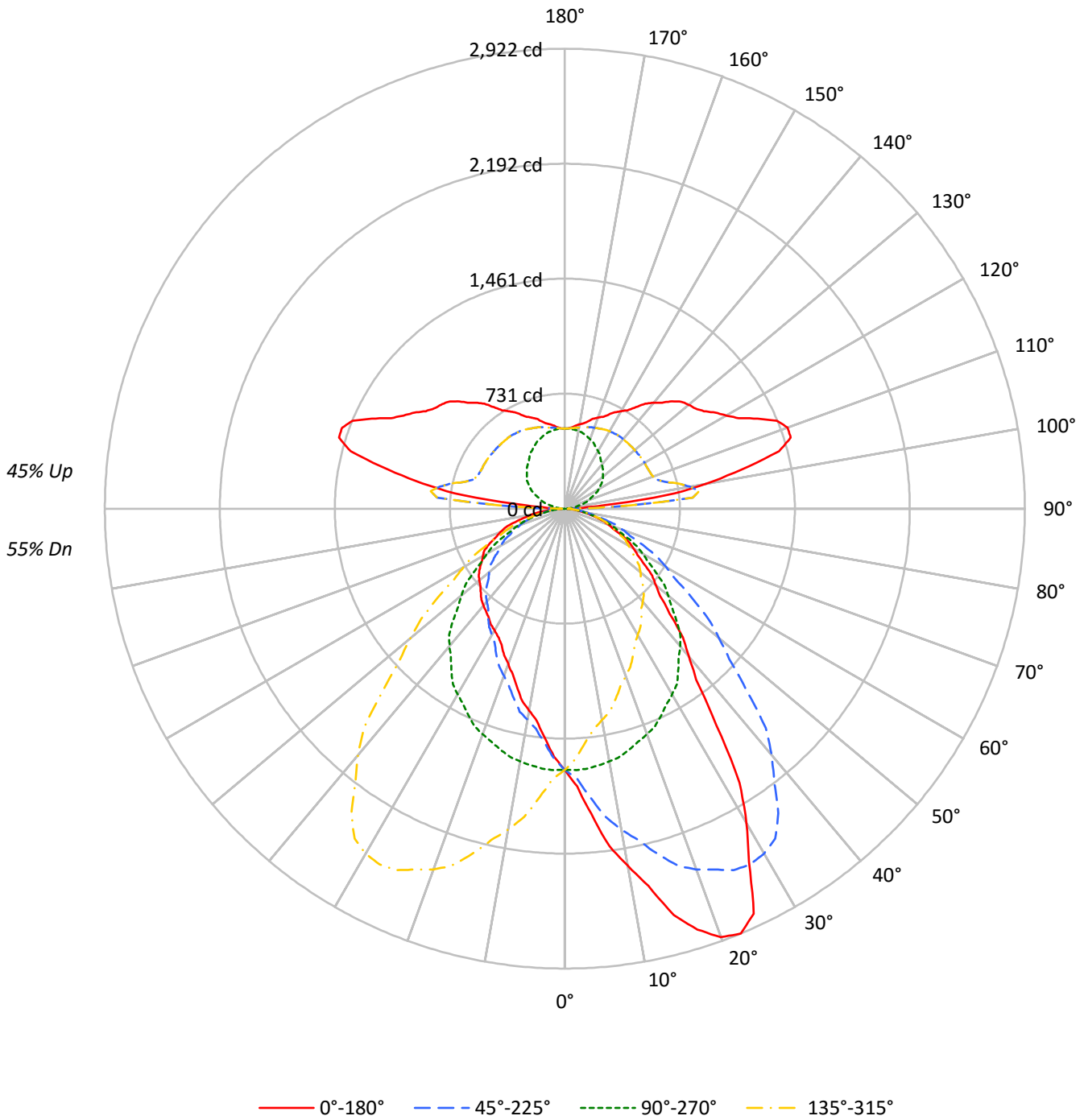
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	101	101	101	86	86	86	73	73	73	61	61	61	55				
1	99	95	91	88	92	88	85	82	76	74	71	65	63	61	54	53	52	47				
2	91	83	77	72	84	78	72	68	67	63	60	57	54	52	48	46	44	40				
3	83	73	66	60	77	68	62	57	59	54	50	51	47	44	43	40	38	34				
4	76	65	57	51	70	61	54	49	53	47	43	45	41	38	38	35	33	29				
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26				
6	64	52	44	38	60	49	42	36	43	37	33	37	33	29	32	28	25	23				
7	60	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	23	20				
8	55	43	35	30	51	40	33	29	36	30	26	31	26	23	27	23	20	18				
9	52	39	32	27	48	37	30	26	33	27	23	28	24	21	25	21	18	16				
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13397	13397	13397	13397
5°	15776	13431	11854	13431
10°	18889	13373	10673	13373
15°	22349	13237	9802	13237
20°	24887	13099	9024	13099
25°	25289	12896	8487	12896
30°	21519	12701	8318	12701
35°	16544	12384	8319	12384
40°	12896	12012	8476	12012
45°	10752	11451	8617	11451
50°	9463	10766	8911	10766
55°	8670	9947	9270	9947
60°	8125	9213	9700	9213
65°	7564	8392	10059	8392
70°	6911	7579	10286	7579
75°	6173	6669	10162	6669
80°	5174	5463	9842	5463
85°	3816	3946	9429	3946



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	2.0
10°-20°	498.3	6.0
20°-30°	790.2	9.5
30°-40°	879.4	10.6
40°-50°	800.5	9.7
50°-60°	654.1	7.9
60°-70°	467.0	5.6
70°-80°	257.1	3.1
80°-90°	73.0	0.9
90°-100°	367.8	4.4
100°-110°	765.5	9.2
110°-120°	685.7	8.3
120°-130°	576.8	7.0
130°-140°	480.9	5.8
140°-150°	367.4	4.4
150°-160°	258.2	3.1
160°-170°	151.9	1.8
170°-180°	49.4	0.6
0°-30°	1450.2	17.5
0°-40°	2329.6	28.1
0°-60°	3784.2	45.7
0°-90°	4581.3	55.3
90°-120°	1819.0	22.0
90°-150°	3244.1	39.2
90°-180°	3704.0	44.7
0°-180°	8285.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1660	1660	1660	1660	1660	
5°	1947	1657	1463	1657	1947	198
15°	2674	1584	1173	1584	2674	756
25°	2839	1448	953	1448	2839	1252
35°	1679	1257	844	1257	1679	1066
45°	942	1003	755	1003	942	742
55°	616	707	659	707	616	556
65°	396	439	527	439	396	392
75°	198	214	326	214	198	210
85°	41	43	102	43	41	51
90°	21	1	21	1	21	19
95°	244	33	244	33	244	379
105°	1408	117	1408	117	1408	1392
115°	1352	206	1352	206	1352	1342
125°	1078	287	1078	287	1078	980
135°	964	341	964	341	964	744
145°	787	393	787	393	787	499
155°	659	447	659	447	659	308
165°	575	487	575	487	575	165
175°	518	508	518	508	518	50
180°	509	509	509	509	509	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1766.2	1765.6	1760.1	1759.0	1755.1	1750.2	1749.1	1740.3	1722.7	1714.4	1712.3
5°	1946.8	1960.6	1942.7	1939.2	1937.2	1914.5	1902.8	1889.0	1857.4	1838.9	1824.5
7.5°	2162.4	2164.0	2156.2	2149.9	2132.4	2112.6	2082.9	2051.3	2013.6	1974.4	1944.9
10°	2304.3	2309.8	2300.9	2299.5	2264.4	2242.4	2198.4	2161.3	2118.7	2071.2	2027.9
12.5°	2453.8	2446.2	2441.6	2412.2	2405.7	2365.6	2314.5	2276.2	2210.5	2155.9	2098.3
15°	2674.1	2659.0	2649.4	2608.8	2588.9	2533.1	2478.9	2437.0	2351.0	2269.3	2207.3
17.5°	2803.3	2818.5	2796.2	2779.6	2728.0	2689.0	2633.5	2545.5	2478.2	2376.6	2298.5
20°	2896.8	2898.2	2885.8	2868.7	2828.1	2778.6	2718.1	2621.8	2541.4	2440.4	2333.1
22.5°	2922.1	2922.4	2917.2	2901.1	2870.4	2830.3	2769.2	2689.0	2591.5	2481.7	2374.4
25°	2839.1	2836.3	2842.5	2860.4	2848.7	2836.3	2801.3	2741.5	2650.8	2534.5	2419.1
27.5°	2530.6	2549.5	2584.5	2628.5	2670.8	2703.1	2712.2	2699.9	2643.7	2548.2	2427.2
30°	2308.4	2331.8	2357.9	2401.8	2487.2	2535.9	2589.5	2630.1	2607.5	2531.2	2418.4
32.5°	2064.2	2070.0	2108.8	2158.8	2236.9	2330.8	2415.8	2498.1	2525.5	2485.4	2391.4
35°	1678.7	1688.3	1730.3	1779.8	1875.3	1990.1	2118.0	2232.1	2326.2	2364.0	2315.9
37.5°	1369.9	1397.6	1427.1	1480.3	1564.4	1667.8	1800.7	1948.4	2088.7	2182.7	2198.6
40°	1223.7	1240.8	1262.1	1302.7	1374.2	1475.9	1590.0	1759.1	1908.3	2043.1	2087.1
42.5°	1108.1	1118.2	1131.3	1167.9	1222.4	1323.6	1427.8	1576.6	1726.3	1887.4	1961.1
45°	941.8	952.1	974.0	995.4	1036.6	1106.7	1203.7	1326.0	1476.6	1631.9	1768.1
47.5°	821.7	828.2	841.3	864.1	899.1	945.4	1024.2	1126.4	1266.0	1416.8	1561.9
50°	753.5	758.9	769.2	789.9	816.7	857.9	922.6	1018.0	1127.4	1279.3	1421.6
52.5°	699.6	701.7	709.3	723.3	744.6	779.3	832.3	911.4	1013.0	1148.4	1290.2
55°	616.0	618.7	625.6	635.8	654.4	676.4	717.0	776.1	864.8	982.3	1105.4
57.5°	547.2	549.1	554.9	558.9	574.1	592.0	623.2	665.5	732.6	832.3	942.2
60°	503.2	501.8	508.7	512.1	522.5	537.6	561.6	602.2	660.6	741.1	842.1
62.5°	460.3	458.4	464.2	468.7	474.6	487.5	507.2	539.0	586.3	659.1	746.4
65°	396.0	393.2	396.7	402.2	407.7	414.5	429.0	457.1	495.0	547.2	613.9
67.5°	331.3	334.2	334.8	337.5	340.7	350.1	359.9	379.9	406.6	448.3	504.9
70°	292.8	293.5	296.3	296.3	298.3	306.6	314.9	326.5	352.7	391.2	437.2
72.5°	254.3	257.3	256.1	258.3	259.8	265.4	271.4	282.5	304.8	333.4	372.3
75°	197.9	200.0	200.0	200.7	202.8	204.8	209.7	217.9	233.8	255.0	281.8
77.5°	144.4	144.6	145.6	148.1	148.1	151.4	155.0	161.5	169.4	184.0	200.4
80°	111.3	112.7	112.0	113.4	113.4	116.1	117.5	125.8	129.2	138.9	151.9
82.5°	81.7	83.0	82.9	84.8	85.9	86.4	88.4	91.7	95.1	103.7	109.0
85°	41.2	42.6	41.2	42.6	44.7	45.4	47.4	48.1	50.9	53.0	57.8
87.5°	16.3	17.9	18.2	18.5	19.4	20.0	20.3	19.5	21.5	22.3	24.1
90°	21.0	21.0	22.0	21.0	20.0	20.0	19.0	18.0	17.0	18.0	16.0
92.5°	77.1	77.1	80.4	85.8	97.6	117.7	147.8	196.5	264.3	317.4	277.8
95°	244.1	257.1	275.2	306.2	355.2	452.2	586.3	741.3	838.4	815.4	615.3
97.5°	652.6	673.3	703.4	763.5	835.4	939.9	1037.7	1095.4	1053.3	858.8	575.8
100°	917.5	925.5	955.5	1016.5	1103.5	1177.6	1226.6	1206.6	1060.5	804.3	522.3
102.5°	1148.0	1154.3	1185.9	1230.2	1283.6	1314.4	1300.2	1201.0	1000.5	736.3	486.2
105°	1407.6	1413.7	1427.7	1435.7	1433.7	1392.7	1293.7	1120.5	891.4	656.3	455.2
107.5°	1504.2	1501.5	1491.5	1468.7	1419.3	1330.1	1190.6	1006.3	803.4	611.5	449.6
110°	1505.7	1496.8	1478.7	1436.7	1365.6	1255.6	1110.5	937.5	759.4	596.3	451.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1458.5	1443.9	1418.7	1367.9	1287.2	1177.2	1040.1	887.0	734.5	589.1	456.0
115°	1351.7	1343.7	1311.6	1251.6	1172.6	1076.5	959.5	836.4	711.4	585.3	465.2
117.5°	1243.4	1237.2	1204.8	1154.3	1086.9	1005.5	913.4	811.6	700.9	584.3	475.0
120°	1182.6	1171.6	1145.6	1101.6	1044.5	973.4	893.5	800.4	695.3	584.3	482.2
122.5°	1134.5	1123.5	1101.6	1063.9	1015.7	953.5	880.6	790.7	689.0	583.5	489.5
125°	1078.5	1072.5	1053.5	1024.5	984.5	929.4	860.4	774.4	678.3	582.3	500.2
127.5°	1045.7	1039.7	1023.7	997.9	957.7	905.4	836.6	754.3	664.1	580.1	508.9
130°	1026.5	1020.5	1004.4	979.5	938.5	885.5	817.4	738.4	655.3	579.3	515.2
132.5°	1004.9	998.8	983.7	955.5	915.2	862.2	795.8	721.5	647.3	578.5	520.8
135°	964.5	958.5	942.5	914.5	874.4	824.4	763.4	698.4	635.3	577.3	529.3
137.5°	914.5	907.2	894.1	866.4	829.0	783.8	732.4	677.3	624.9	577.0	534.3
140°	878.4	870.4	856.4	834.4	799.4	757.3	712.3	665.3	619.3	576.3	538.3
142.5°	840.0	834.4	822.0	801.6	770.6	734.2	695.5	654.1	614.5	576.3	541.5
145°	787.4	782.4	772.4	755.4	730.4	702.3	672.4	638.3	606.3	574.3	543.3
147.5°	740.7	739.0	731.3	716.8	698.4	676.3	652.3	625.3	598.9	570.7	544.2
150°	714.4	713.3	707.3	694.3	678.3	660.3	640.3	617.3	593.3	568.3	544.2
152.5°	690.3	689.3	685.7	675.1	661.5	646.7	628.3	608.5	586.9	564.3	542.7
155°	659.4	659.4	656.3	648.3	638.3	626.3	611.3	595.3	577.3	558.3	540.3
157.5°	632.1	632.1	630.3	624.3	616.7	607.1	594.5	581.1	567.5	552.1	537.7
160°	615.3	615.3	614.3	608.3	602.3	594.3	583.2	572.3	560.3	547.3	535.3
162.5°	599.3	600.1	599.1	593.1	588.7	581.5	572.9	563.4	553.9	542.4	532.9
165°	575.3	576.3	577.3	573.3	569.3	564.3	557.2	551.3	543.3	535.3	528.2
167.5°	556.3	557.1	557.2	554.7	552.7	549.7	544.1	539.5	533.6	528.1	523.5
170°	544.2	544.2	545.3	544.2	542.3	539.2	535.3	532.3	527.3	523.2	520.2
172.5°	532.3	533.8	534.9	533.8	532.6	530.5	528.1	525.8	521.7	518.4	517.0
175°	518.2	520.2	522.3	520.2	520.2	520.2	518.2	517.3	515.2	513.2	513.2
177.5°	510.1	511.6	513.2	512.5	513.2	512.5	512.5	511.6	510.8	510.1	510.1
180°	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1712.8	1705.1	1699.6	1695.2	1683.1	1675.9	1670.4	1662.8	1654.0	1644.6	1633.1
5°	1810.0	1786.7	1769.4	1743.4	1718.6	1698.0	1676.6	1657.4	1634.0	1608.6	1590.0
7.5°	1912.2	1877.4	1832.8	1794.2	1750.8	1713.0	1679.1	1644.5	1608.4	1573.6	1541.5
10°	1977.0	1932.3	1882.8	1824.5	1769.4	1720.6	1675.2	1631.3	1588.6	1546.0	1509.6
12.5°	2046.9	1991.2	1918.0	1849.8	1788.1	1722.9	1668.1	1614.2	1562.8	1518.0	1475.5
15°	2140.7	2060.2	1975.7	1884.2	1803.1	1726.8	1651.9	1583.8	1526.1	1467.0	1425.7
17.5°	2198.3	2098.8	2002.1	1906.5	1808.4	1712.1	1631.3	1552.8	1480.5	1421.8	1369.8
20°	2236.2	2137.3	2016.9	1921.4	1804.5	1705.6	1612.1	1524.7	1449.1	1386.6	1332.9
22.5°	2269.3	2154.8	2034.5	1908.8	1792.4	1687.4	1585.1	1497.2	1420.0	1354.1	1302.7
25°	2287.1	2155.8	2025.2	1900.1	1768.1	1643.6	1550.8	1447.8	1365.2	1295.8	1240.8
27.5°	2289.1	2148.6	2000.9	1861.8	1725.6	1609.7	1492.5	1400.4	1314.7	1241.4	1188.6
30°	2282.9	2136.6	1977.7	1827.2	1690.4	1564.6	1462.8	1362.5	1275.2	1202.3	1147.3
32.5°	2263.7	2111.3	1948.0	1788.7	1646.9	1523.9	1418.8	1323.4	1238.4	1166.6	1108.8
35°	2208.0	2057.4	1883.5	1717.9	1572.9	1448.5	1353.6	1256.6	1171.4	1103.4	1047.7
37.5°	2121.0	1984.9	1808.1	1636.7	1494.2	1369.2	1275.2	1187.6	1110.8	1041.6	984.6
40°	2045.1	1925.5	1748.2	1581.1	1427.1	1308.2	1220.2	1139.8	1063.4	998.2	943.8
42.5°	1957.7	1853.5	1689.9	1512.9	1364.4	1244.9	1159.2	1086.9	1015.0	954.7	900.4
45°	1801.7	1733.0	1579.1	1415.4	1260.8	1148.0	1066.2	1003.0	942.5	883.4	838.0
47.5°	1622.5	1588.4	1458.7	1303.4	1156.5	1045.4	974.5	916.1	863.0	813.0	772.9
50°	1502.0	1485.6	1373.5	1223.7	1083.4	978.9	907.4	857.2	811.8	767.8	730.0
52.5°	1383.3	1382.7	1281.7	1144.4	1014.7	914.0	843.1	796.2	756.9	721.1	687.2
55°	1201.6	1220.9	1141.9	1019.4	903.3	812.5	748.6	706.7	679.2	649.6	624.2
57.5°	1034.8	1066.8	1001.6	893.8	796.9	713.3	657.6	626.1	596.8	578.9	560.4
60°	926.0	956.2	905.3	814.6	723.2	651.7	598.7	570.6	545.1	532.8	519.7
62.5°	829.1	856.1	818.5	734.3	655.0	586.3	541.6	514.4	497.3	483.8	475.2
65°	690.9	713.6	681.2	620.1	552.0	497.1	460.5	439.3	422.8	417.2	407.7
67.5°	558.4	579.1	561.6	509.6	455.0	413.5	385.0	364.5	354.7	349.9	343.0
70°	479.8	500.4	481.9	436.5	394.6	359.6	332.7	321.1	310.7	308.7	299.0
72.5°	413.3	427.3	408.7	373.2	337.4	307.8	287.1	274.8	269.5	265.8	260.5
75°	310.0	322.4	310.0	282.5	257.1	236.5	218.6	213.8	207.6	205.5	202.1
77.5°	219.5	230.1	220.7	203.5	184.5	168.6	158.9	152.7	151.4	147.8	149.5
80°	167.7	174.6	165.7	153.9	138.9	127.9	121.0	117.5	113.4	112.0	114.8
82.5°	120.5	123.5	118.9	111.1	99.8	92.6	88.0	84.0	83.2	83.4	83.4
85°	62.6	61.9	61.2	54.3	50.9	46.1	43.3	42.6	41.9	43.3	44.7
87.5°	23.7	24.3	22.5	20.3	18.4	16.6	15.4	14.5	15.4	16.6	17.3
90°	14.0	14.0	8.0	8.0	7.0	6.0	3.0	1.0	3.0	6.0	7.0
92.5°	202.1	124.5	73.6	52.9	38.2	26.0	16.6	11.4	16.6	26.0	38.2
95°	376.2	212.1	125.1	83.0	59.1	46.1	36.0	33.0	36.0	46.1	59.1
97.5°	338.2	202.7	135.7	100.5	79.8	67.8	59.2	59.2	59.2	67.8	79.8
100°	318.1	205.1	146.1	114.1	95.1	83.0	76.0	76.0	76.0	83.0	95.1
102.5°	312.5	213.1	159.7	129.2	111.1	99.9	93.7	92.0	93.7	99.9	111.1
105°	315.1	232.1	184.1	155.1	137.1	125.1	120.0	117.1	120.0	125.1	137.1
107.5°	329.9	254.3	210.3	181.7	164.5	151.7	146.6	144.6	146.6	151.7	164.5
110°	341.1	271.1	227.1	200.1	182.1	170.0	165.1	163.1	165.1	170.0	182.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	353.2	287.1	244.7	217.7	199.7	188.5	182.7	180.7	182.7	188.5	199.7
115°	372.2	312.1	272.2	245.1	226.1	216.1	209.1	206.1	209.1	216.1	226.1
117.5°	391.6	336.4	298.3	270.4	252.5	241.5	235.3	232.5	235.3	241.5	252.5
120°	405.2	353.2	315.1	287.1	270.1	259.2	252.1	250.1	252.1	259.2	270.1
122.5°	418.0	369.2	331.1	303.9	285.3	275.2	268.1	266.1	268.1	275.2	285.3
125°	437.2	391.2	355.2	327.2	308.2	297.1	291.1	287.1	291.1	297.1	308.2
127.5°	453.8	411.6	376.8	348.5	328.7	316.2	308.9	305.7	308.9	316.2	328.7
130°	464.3	425.2	391.2	362.1	343.2	328.1	320.1	316.2	320.1	328.1	343.2
132.5°	474.7	436.4	402.4	375.0	354.4	340.2	329.8	326.6	329.8	340.2	354.4
135°	488.3	452.2	419.2	393.2	372.2	355.2	345.2	341.1	345.2	355.2	372.2
137.5°	497.8	464.3	433.4	408.6	386.8	370.6	359.6	355.8	359.6	370.6	386.8
140°	504.2	472.3	442.2	418.2	397.2	380.2	369.2	366.2	369.2	380.2	397.2
142.5°	509.0	479.4	450.2	427.0	406.8	390.5	380.4	377.4	380.4	390.5	406.8
145°	514.3	487.2	461.2	439.2	420.2	406.2	396.2	393.2	396.2	406.2	420.2
147.5°	518.8	495.2	470.8	451.0	435.2	420.8	412.0	411.0	412.0	420.8	435.2
150°	521.2	499.2	477.3	458.2	443.2	431.2	423.2	422.2	423.2	431.2	443.2
152.5°	522.9	502.5	482.8	465.5	452.0	440.8	432.8	432.6	432.8	440.8	452.0
155°	524.3	507.2	490.3	475.3	464.3	454.2	448.2	447.2	448.2	454.2	464.3
157.5°	524.3	510.7	496.3	484.4	474.8	467.0	461.4	461.4	461.4	467.0	474.8
160°	524.3	512.2	500.2	489.2	481.2	474.2	470.2	470.2	470.2	474.2	481.2
162.5°	524.3	513.8	502.7	494.0	486.8	480.6	477.4	478.2	477.4	480.6	486.8
165°	522.3	514.3	505.2	499.2	494.2	489.2	487.2	487.2	487.2	489.2	494.2
167.5°	519.9	514.0	507.5	502.8	500.1	496.3	495.2	496.3	495.2	496.3	500.1
170°	518.2	513.2	508.2	505.2	503.3	500.2	499.2	500.2	499.2	500.2	503.3
172.5°	516.7	512.5	509.0	506.9	505.7	503.4	503.3	504.2	503.3	503.4	505.7
175°	514.3	511.3	509.3	509.3	508.2	507.2	507.2	508.2	507.2	507.2	508.2
177.5°	511.6	510.1	509.3	509.3	509.3	508.4	509.3	510.1	509.3	508.4	509.3
180°	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3



TEST NUMBER: P332708-935

CATALOG NUMBER: SA4XXDIP-C1195D1205U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1627.5	1622.6	1615.5	1605.6	1597.3	1588.5	1586.3	1583.0	1589.6	1584.2	1582.4
5°	1574.3	1559.8	1541.2	1519.9	1507.5	1489.7	1486.3	1479.4	1472.5	1471.8	1464.9
7.5°	1517.7	1496.5	1472.2	1450.4	1430.4	1410.9	1398.1	1395.3	1385.2	1379.2	1372.3
10°	1481.4	1455.3	1427.1	1406.5	1383.1	1362.5	1348.1	1339.8	1332.9	1325.3	1318.5
12.5°	1438.6	1410.7	1387.5	1365.2	1337.5	1321.8	1298.0	1283.8	1282.4	1282.5	1264.6
15°	1388.6	1361.2	1325.3	1293.7	1278.6	1248.4	1235.3	1218.8	1208.5	1198.2	1190.0
17.5°	1331.5	1297.4	1269.4	1233.1	1204.3	1180.2	1163.0	1153.1	1137.6	1123.0	1112.4
20°	1295.8	1259.4	1229.9	1191.3	1159.7	1130.1	1115.7	1102.0	1090.3	1077.9	1066.2
22.5°	1259.5	1221.4	1185.3	1147.9	1118.4	1087.3	1073.3	1054.6	1043.5	1036.6	1024.9
25°	1202.3	1161.1	1119.8	1084.1	1053.9	1026.3	1007.8	993.3	980.9	975.4	967.9
27.5°	1140.1	1099.2	1059.4	1018.7	984.4	964.5	949.6	938.7	931.6	924.3	920.9
30°	1100.6	1058.0	1015.4	977.5	945.9	926.0	912.2	904.7	899.1	895.7	892.3
32.5°	1060.4	1018.4	973.5	939.0	910.7	892.9	882.5	874.9	872.2	871.0	869.8
35°	996.1	953.5	912.2	881.3	854.5	847.6	838.7	834.6	833.2	838.0	840.1
37.5°	933.8	894.2	856.3	826.3	808.7	798.7	795.7	795.7	800.7	804.9	809.9
40°	893.6	855.1	819.4	793.3	776.8	770.6	769.2	772.7	778.2	783.0	788.5
42.5°	854.6	816.7	784.2	759.7	748.2	742.5	743.4	746.8	754.5	760.4	768.7
45°	794.0	762.3	730.7	710.8	701.2	702.6	702.6	708.8	716.3	725.2	734.2
47.5°	736.9	705.1	679.1	662.3	657.3	656.1	660.0	668.0	678.9	689.9	702.4
50°	698.4	668.2	645.5	630.3	624.9	627.0	632.4	640.0	653.1	666.8	679.8
52.5°	659.4	631.9	610.9	596.8	593.0	596.7	602.2	614.2	625.6	640.4	656.3
55°	598.7	575.4	558.9	548.5	547.2	549.2	555.4	568.5	585.0	603.6	618.7
57.5°	538.4	518.8	503.8	496.6	497.3	499.2	509.4	525.0	542.5	562.3	581.9
60°	497.7	479.8	467.4	461.9	462.6	466.7	479.1	493.6	515.6	534.9	555.4
62.5°	459.2	443.5	431.7	426.8	425.8	434.9	446.7	461.7	483.7	505.1	527.4
65°	397.4	385.0	375.3	372.6	374.6	381.5	396.7	416.6	435.1	457.8	481.2
67.5°	336.8	326.7	320.0	321.3	323.8	334.0	346.6	363.8	384.9	408.4	431.4
70°	298.3	288.7	283.2	283.9	288.0	300.4	311.4	328.6	351.3	375.3	394.6
72.5°	258.7	252.4	247.5	250.4	254.5	263.0	276.7	293.9	313.9	336.3	356.6
75°	198.6	198.6	195.9	197.9	204.1	212.4	222.7	240.6	260.5	278.4	294.9
77.5°	147.4	145.9	147.7	150.2	153.7	163.5	175.3	188.0	203.1	220.9	234.5
80°	112.7	113.4	116.8	121.0	122.3	129.9	142.3	153.9	165.7	180.8	193.9
82.5°	84.7	85.4	87.1	92.4	93.8	101.9	109.9	121.6	132.2	142.3	153.2
85°	46.1	46.1	49.5	51.6	55.0	60.5	65.3	72.2	81.8	88.7	99.0
87.5°	19.2	19.2	22.6	23.7	25.7	28.9	29.8	36.1	38.5	41.4	46.3
90°	8.0	8.0	14.0	14.0	16.0	18.0	17.0	18.0	19.0	20.0	20.0
92.5°	52.9	73.6	124.5	202.1	277.8	317.4	264.3	196.5	147.8	117.7	97.6
95°	83.0	125.1	212.1	376.2	615.3	815.4	838.4	741.3	586.3	452.2	355.2
97.5°	100.5	135.7	202.7	338.2	575.8	858.8	1053.3	1095.4	1037.7	939.9	835.4
100°	114.1	146.1	205.1	318.1	522.3	804.3	1060.5	1206.6	1226.6	1177.6	1103.5
102.5°	129.2	159.7	213.1	312.5	486.2	736.3	1000.5	1201.0	1300.2	1314.4	1283.6
105°	155.1	184.1	232.1	315.1	455.2	656.3	891.4	1120.5	1293.7	1392.7	1433.7
107.5°	181.7	210.3	254.3	329.9	449.6	611.5	803.4	1006.3	1190.6	1330.1	1419.3
110°	200.1	227.1	271.1	341.1	451.3	596.3	759.4	937.5	1110.5	1255.6	1365.6



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	217.7	244.7	287.1	353.2	456.0	589.1	734.5	887.0	1040.1	1177.2	1287.2
115°	245.1	272.2	312.1	372.2	465.2	585.3	711.4	836.4	959.5	1076.5	1172.6
117.5°	270.4	298.3	336.4	391.6	475.0	584.3	700.9	811.6	913.4	1005.5	1086.9
120°	287.1	315.1	353.2	405.2	482.2	584.3	695.3	800.4	893.5	973.4	1044.5
122.5°	303.9	331.1	369.2	418.0	489.5	583.5	689.0	790.7	880.6	953.5	1015.7
125°	327.2	355.2	391.2	437.2	500.2	582.3	678.3	774.4	860.4	929.4	984.5
127.5°	348.5	376.8	411.6	453.8	508.9	580.1	664.1	754.3	836.6	905.4	957.7
130°	362.1	391.2	425.2	464.3	515.2	579.3	655.3	738.4	817.4	885.5	938.5
132.5°	375.0	402.4	436.4	474.7	520.8	578.5	647.3	721.5	795.8	862.2	915.2
135°	393.2	419.2	452.2	488.3	529.3	577.3	635.3	698.4	763.4	824.4	874.4
137.5°	408.6	433.4	464.3	497.8	534.3	577.0	624.9	677.3	732.4	783.8	829.0
140°	418.2	442.2	472.3	504.2	538.3	576.3	619.3	665.3	712.3	757.3	799.4
142.5°	427.0	450.2	479.4	509.0	541.5	576.3	614.5	654.1	695.5	734.2	770.6
145°	439.2	461.2	487.2	514.3	543.3	574.3	606.3	638.3	672.4	702.3	730.4
147.5°	451.0	470.8	495.2	518.8	544.2	570.7	598.9	625.3	652.3	676.3	698.4
150°	458.2	477.3	499.2	521.2	544.2	568.3	593.3	617.3	640.3	660.3	678.3
152.5°	465.5	482.8	502.5	522.9	542.7	564.3	586.9	608.5	628.3	646.7	661.5
155°	475.3	490.3	507.2	524.3	540.3	558.3	577.3	595.3	611.3	626.3	638.3
157.5°	484.4	496.3	510.7	524.3	537.7	552.1	567.5	581.1	594.5	607.1	616.7
160°	489.2	500.2	512.2	524.3	535.3	547.3	560.3	572.3	583.2	594.3	602.3
162.5°	494.0	502.7	513.8	524.3	532.9	542.4	553.9	563.4	572.9	581.5	588.7
165°	499.2	505.2	514.3	522.3	528.2	535.3	543.3	551.3	557.2	564.3	569.3
167.5°	502.8	507.5	514.0	519.9	523.5	528.1	533.6	539.5	544.1	549.7	552.7
170°	505.2	508.2	513.2	518.2	520.2	523.2	527.3	532.3	535.3	539.2	542.3
172.5°	506.9	509.0	512.5	516.7	517.0	518.4	521.7	525.8	528.1	530.5	532.6
175°	509.3	509.3	511.3	514.3	513.2	513.2	515.2	517.3	518.2	520.2	520.2
177.5°	509.3	509.3	510.1	511.6	510.1	510.1	510.8	511.6	512.5	512.5	513.2
180°	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3



TEST NUMBER: P332708-935

CATALOG NUMBER: SA4XXDIP-C1195D1205U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1581.4	1580.3	1576.4	1575.9	1576.4	1580.3	1581.4	1582.4	1584.2	1589.6	1583.0
5°	1460.8	1457.3	1455.3	1462.8	1455.3	1457.3	1460.8	1464.9	1471.8	1472.5	1479.4
7.5°	1369.9	1367.2	1361.2	1359.2	1361.2	1367.2	1369.9	1372.3	1379.2	1385.2	1395.3
10°	1311.6	1308.9	1303.4	1302.0	1303.4	1308.9	1311.6	1318.5	1325.3	1332.9	1339.8
12.5°	1255.5	1250.0	1249.0	1250.3	1249.0	1250.0	1255.5	1264.6	1282.5	1282.4	1283.8
15°	1181.0	1178.3	1170.7	1172.8	1170.7	1178.3	1181.0	1190.0	1198.2	1208.5	1218.8
17.5°	1107.6	1104.3	1095.1	1103.2	1095.1	1104.3	1107.6	1112.4	1123.0	1137.6	1153.1
20°	1061.4	1055.9	1051.1	1050.4	1051.1	1055.9	1061.4	1066.2	1077.9	1090.3	1102.0
22.5°	1017.4	1012.4	1012.0	1007.5	1012.0	1012.4	1017.4	1024.9	1036.6	1043.5	1054.6
25°	962.4	957.6	956.2	952.8	956.2	957.6	962.4	967.9	975.4	980.9	993.3
27.5°	920.2	917.8	915.4	916.4	915.4	917.8	920.2	920.9	924.3	931.6	938.7
30°	894.3	893.6	892.3	892.3	892.3	893.6	894.3	892.3	895.7	899.1	904.7
32.5°	872.9	872.8	873.6	873.6	873.6	872.8	872.9	869.8	871.0	872.2	874.9
35°	842.8	844.8	846.2	844.1	846.2	844.8	842.8	840.1	838.0	833.2	834.6
37.5°	815.5	817.6	819.6	821.9	819.6	817.6	815.5	809.9	804.9	800.7	795.7
40°	794.7	799.5	800.8	804.3	800.8	799.5	794.7	788.5	783.0	778.2	772.7
42.5°	774.9	780.2	783.8	784.5	783.8	780.2	774.9	768.7	760.4	754.5	746.8
45°	744.5	750.0	754.8	754.8	754.8	750.0	744.5	734.2	725.2	716.3	708.8
47.5°	713.0	721.0	725.8	727.0	725.8	721.0	713.0	702.4	689.9	678.9	668.0
50°	691.6	701.2	706.0	709.5	706.0	701.2	691.6	679.8	666.8	653.1	640.0
52.5°	670.6	680.3	686.7	688.5	686.7	680.3	670.6	656.3	640.4	625.6	614.2
55°	634.5	648.2	655.8	658.6	655.8	648.2	634.5	618.7	603.6	585.0	568.5
57.5°	600.4	613.0	621.8	623.9	621.8	613.0	600.4	581.9	562.3	542.5	525.0
60°	574.0	587.7	598.7	600.8	598.7	587.7	574.0	555.4	534.9	515.6	493.6
62.5°	547.1	561.4	571.3	576.6	571.3	561.4	547.1	527.4	505.1	483.7	461.7
65°	500.4	514.9	524.5	526.6	524.5	514.9	500.4	481.2	457.8	435.1	416.6
67.5°	449.6	464.0	470.4	474.3	470.4	464.0	449.6	431.4	408.4	384.9	363.8
70°	413.8	425.5	432.4	435.8	432.4	425.5	413.8	394.6	375.3	351.3	328.6
72.5°	373.2	385.4	393.4	394.0	393.4	385.4	373.2	356.6	336.3	313.9	293.9
75°	310.7	321.8	325.8	325.8	325.8	321.8	310.7	294.9	278.4	260.5	240.6
77.5°	246.0	251.6	256.8	258.0	256.8	251.6	246.0	234.5	220.9	203.1	188.0
80°	204.1	207.6	211.7	211.7	211.7	207.6	204.1	193.9	180.8	165.7	153.9
82.5°	161.3	164.2	168.3	167.7	168.3	164.2	161.3	153.2	142.3	132.2	121.6
85°	97.6	103.8	103.1	101.8	103.1	103.8	97.6	99.0	88.7	81.8	72.2
87.5°	48.2	48.9	50.4	51.5	50.4	48.9	48.2	46.3	41.4	38.5	36.1
90°	21.0	22.0	21.0	21.0	21.0	22.0	21.0	20.0	20.0	19.0	18.0
92.5°	85.8	80.4	77.1	77.1	77.1	80.4	85.8	97.6	117.7	147.8	196.5
95°	306.2	275.2	257.1	244.1	257.1	275.2	306.2	355.2	452.2	586.3	741.3
97.5°	763.5	703.4	673.3	652.6	673.3	703.4	763.5	835.4	939.9	1037.7	1095.4
100°	1016.5	955.5	925.5	917.5	925.5	955.5	1016.5	1103.5	1177.6	1226.6	1206.6
102.5°	1230.2	1185.9	1154.3	1148.0	1154.3	1185.9	1230.2	1283.6	1314.4	1300.2	1201.0
105°	1435.7	1427.7	1413.7	1407.6	1413.7	1427.7	1435.7	1433.7	1392.7	1293.7	1120.5
107.5°	1468.7	1491.5	1501.5	1504.2	1501.5	1491.5	1468.7	1419.3	1330.1	1190.6	1006.3
110°	1436.7	1478.7	1496.8	1505.7	1496.8	1478.7	1436.7	1365.6	1255.6	1110.5	937.5



TEST NUMBER: P332708-935

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1367.9	1418.7	1443.9	1458.5	1443.9	1418.7	1367.9	1287.2	1177.2	1040.1	887.0
115°	1251.6	1311.6	1343.7	1351.7	1343.7	1311.6	1251.6	1172.6	1076.5	959.5	836.4
117.5°	1154.3	1204.8	1237.2	1243.4	1237.2	1204.8	1154.3	1086.9	1005.5	913.4	811.6
120°	1101.6	1145.6	1171.6	1182.6	1171.6	1145.6	1101.6	1044.5	973.4	893.5	800.4
122.5°	1063.9	1101.6	1123.5	1134.5	1123.5	1101.6	1063.9	1015.7	953.5	880.6	790.7
125°	1024.5	1053.5	1072.5	1078.5	1072.5	1053.5	1024.5	984.5	929.4	860.4	774.4
127.5°	997.9	1023.7	1039.7	1045.7	1039.7	1023.7	997.9	957.7	905.4	836.6	754.3
130°	979.5	1004.4	1020.5	1026.5	1020.5	1004.4	979.5	938.5	885.5	817.4	738.4
132.5°	955.5	983.7	998.8	1004.9	998.8	983.7	955.5	915.2	862.2	795.8	721.5
135°	914.5	942.5	958.5	964.5	958.5	942.5	914.5	874.4	824.4	763.4	698.4
137.5°	866.4	894.1	907.2	914.5	907.2	894.1	866.4	829.0	783.8	732.4	677.3
140°	834.4	856.4	870.4	878.4	870.4	856.4	834.4	799.4	757.3	712.3	665.3
142.5°	801.6	822.0	834.4	840.0	834.4	822.0	801.6	770.6	734.2	695.5	654.1
145°	755.4	772.4	782.4	787.4	782.4	772.4	755.4	730.4	702.3	672.4	638.3
147.5°	716.8	731.3	739.0	740.7	739.0	731.3	716.8	698.4	676.3	652.3	625.3
150°	694.3	707.3	713.3	714.4	713.3	707.3	694.3	678.3	660.3	640.3	617.3
152.5°	675.1	685.7	689.3	690.3	689.3	685.7	675.1	661.5	646.7	628.3	608.5
155°	648.3	656.3	659.4	659.4	659.4	656.3	648.3	638.3	626.3	611.3	595.3
157.5°	624.3	630.3	632.1	632.1	632.1	630.3	624.3	616.7	607.1	594.5	581.1
160°	608.3	614.3	615.3	615.3	615.3	614.3	608.3	602.3	594.3	583.2	572.3
162.5°	593.1	599.1	600.1	599.3	600.1	599.1	593.1	588.7	581.5	572.9	563.4
165°	573.3	577.3	576.3	575.3	576.3	577.3	573.3	569.3	564.3	557.2	551.3
167.5°	554.7	557.2	557.1	556.3	557.1	557.2	554.7	552.7	549.7	544.1	539.5
170°	544.2	545.3	544.2	544.2	544.2	545.3	544.2	542.3	539.2	535.3	532.3
172.5°	533.8	534.9	533.8	532.3	533.8	534.9	533.8	532.6	530.5	528.1	525.8
175°	520.2	522.3	520.2	518.2	520.2	522.3	520.2	520.2	520.2	518.2	517.3
177.5°	512.5	513.2	511.6	510.1	511.6	513.2	512.5	513.2	512.5	512.5	511.6
180°	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1586.3	1588.5	1597.3	1605.6	1615.5	1622.6	1627.5	1633.1	1644.6	1654.0	1662.8
5°	1486.3	1489.7	1507.5	1519.9	1541.2	1559.8	1574.3	1590.0	1608.6	1634.0	1657.4
7.5°	1398.1	1410.9	1430.4	1450.4	1472.2	1496.5	1517.7	1541.5	1573.6	1608.4	1644.5
10°	1348.1	1362.5	1383.1	1406.5	1427.1	1455.3	1481.4	1509.6	1546.0	1588.6	1631.3
12.5°	1298.0	1321.8	1337.5	1365.2	1387.5	1410.7	1438.6	1475.5	1518.0	1562.8	1614.2
15°	1235.3	1248.4	1278.6	1293.7	1325.3	1361.2	1388.6	1425.7	1467.0	1526.1	1583.8
17.5°	1163.0	1180.2	1204.3	1233.1	1269.4	1297.4	1331.5	1369.8	1421.8	1480.5	1552.8
20°	1115.7	1130.1	1159.7	1191.3	1229.9	1259.4	1295.8	1332.9	1386.6	1449.1	1524.7
22.5°	1073.3	1087.3	1118.4	1147.9	1185.3	1221.4	1259.5	1302.7	1354.1	1420.0	1497.2
25°	1007.8	1026.3	1053.9	1084.1	1119.8	1161.1	1202.3	1240.8	1295.8	1365.2	1447.8
27.5°	949.6	964.5	984.4	1018.7	1059.4	1099.2	1140.1	1188.6	1241.4	1314.7	1400.4
30°	912.2	926.0	945.9	977.5	1015.4	1058.0	1100.6	1147.3	1202.3	1275.2	1362.5
32.5°	882.5	892.9	910.7	939.0	973.5	1018.4	1060.4	1108.8	1166.6	1238.4	1323.4
35°	838.7	847.6	854.5	881.3	912.2	953.5	996.1	1047.7	1103.4	1171.4	1256.6
37.5°	795.7	798.7	808.7	826.3	856.3	894.2	933.8	984.6	1041.6	1110.8	1187.6
40°	769.2	770.6	776.8	793.3	819.4	855.1	893.6	943.8	998.2	1063.4	1139.8
42.5°	743.4	742.5	748.2	759.7	784.2	816.7	854.6	900.4	954.7	1015.0	1086.9
45°	702.6	702.6	701.2	710.8	730.7	762.3	794.0	838.0	883.4	942.5	1003.0
47.5°	660.0	656.1	657.3	662.3	679.1	705.1	736.9	772.9	813.0	863.0	916.1
50°	632.4	627.0	624.9	630.3	645.5	668.2	698.4	730.0	767.8	811.8	857.2
52.5°	602.2	596.7	593.0	596.8	610.9	631.9	659.4	687.2	721.1	756.9	796.2
55°	555.4	549.2	547.2	548.5	558.9	575.4	598.7	624.2	649.6	679.2	706.7
57.5°	509.4	499.2	497.3	496.6	503.8	518.8	538.4	560.4	578.9	596.8	626.1
60°	479.1	466.7	462.6	461.9	467.4	479.8	497.7	519.7	532.8	545.1	570.6
62.5°	446.7	434.9	425.8	426.8	431.7	443.5	459.2	475.2	483.8	497.3	514.4
65°	396.7	381.5	374.6	372.6	375.3	385.0	397.4	407.7	417.2	422.8	439.3
67.5°	346.6	334.0	323.8	321.3	320.0	326.7	336.8	343.0	349.9	354.7	364.5
70°	311.4	300.4	288.0	283.9	283.2	288.7	298.3	299.0	308.7	310.7	321.1
72.5°	276.7	263.0	254.5	250.4	247.5	252.4	258.7	260.5	265.8	269.5	274.8
75°	222.7	212.4	204.1	197.9	195.9	198.6	198.6	202.1	205.5	207.6	213.8
77.5°	175.3	163.5	153.7	150.2	147.7	145.9	147.4	149.5	147.8	151.4	152.7
80°	142.3	129.9	122.3	121.0	116.8	113.4	112.7	114.8	112.0	113.4	117.5
82.5°	109.9	101.9	93.8	92.4	87.1	85.4	84.7	83.4	83.4	83.2	84.0
85°	65.3	60.5	55.0	51.6	49.5	46.1	46.1	44.7	43.3	41.9	42.6
87.5°	29.8	28.9	25.7	23.7	22.6	19.2	19.2	17.3	16.6	15.4	14.5
90°	17.0	18.0	16.0	14.0	14.0	8.0	8.0	7.0	6.0	3.0	1.0
92.5°	264.3	317.4	277.8	202.1	124.5	73.6	52.9	38.2	26.0	16.6	11.4
95°	838.4	815.4	615.3	376.2	212.1	125.1	83.0	59.1	46.1	36.0	33.0
97.5°	1053.3	858.8	575.8	338.2	202.7	135.7	100.5	79.8	67.8	59.2	59.2
100°	1060.5	804.3	522.3	318.1	205.1	146.1	114.1	95.1	83.0	76.0	76.0
102.5°	1000.5	736.3	486.2	312.5	213.1	159.7	129.2	111.1	99.9	93.7	92.0
105°	891.4	656.3	455.2	315.1	232.1	184.1	155.1	137.1	125.1	120.0	117.1
107.5°	803.4	611.5	449.6	329.9	254.3	210.3	181.7	164.5	151.7	146.6	144.6
110°	759.4	596.3	451.3	341.1	271.1	227.1	200.1	182.1	170.0	165.1	163.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	734.5	589.1	456.0	353.2	287.1	244.7	217.7	199.7	188.5	182.7	180.7
115°	711.4	585.3	465.2	372.2	312.1	272.2	245.1	226.1	216.1	209.1	206.1
117.5°	700.9	584.3	475.0	391.6	336.4	298.3	270.4	252.5	241.5	235.3	232.5
120°	695.3	584.3	482.2	405.2	353.2	315.1	287.1	270.1	259.2	252.1	250.1
122.5°	689.0	583.5	489.5	418.0	369.2	331.1	303.9	285.3	275.2	268.1	266.1
125°	678.3	582.3	500.2	437.2	391.2	355.2	327.2	308.2	297.1	291.1	287.1
127.5°	664.1	580.1	508.9	453.8	411.6	376.8	348.5	328.7	316.2	308.9	305.7
130°	655.3	579.3	515.2	464.3	425.2	391.2	362.1	343.2	328.1	320.1	316.2
132.5°	647.3	578.5	520.8	474.7	436.4	402.4	375.0	354.4	340.2	329.8	326.6
135°	635.3	577.3	529.3	488.3	452.2	419.2	393.2	372.2	355.2	345.2	341.1
137.5°	624.9	577.0	534.3	497.8	464.3	433.4	408.6	386.8	370.6	359.6	355.8
140°	619.3	576.3	538.3	504.2	472.3	442.2	418.2	397.2	380.2	369.2	366.2
142.5°	614.5	576.3	541.5	509.0	479.4	450.2	427.0	406.8	390.5	380.4	377.4
145°	606.3	574.3	543.3	514.3	487.2	461.2	439.2	420.2	406.2	396.2	393.2
147.5°	598.9	570.7	544.2	518.8	495.2	470.8	451.0	435.2	420.8	412.0	411.0
150°	593.3	568.3	544.2	521.2	499.2	477.3	458.2	443.2	431.2	423.2	422.2
152.5°	586.9	564.3	542.7	522.9	502.5	482.8	465.5	452.0	440.8	432.8	432.6
155°	577.3	558.3	540.3	524.3	507.2	490.3	475.3	464.3	454.2	448.2	447.2
157.5°	567.5	552.1	537.7	524.3	510.7	496.3	484.4	474.8	467.0	461.4	461.4
160°	560.3	547.3	535.3	524.3	512.2	500.2	489.2	481.2	474.2	470.2	470.2
162.5°	553.9	542.4	532.9	524.3	513.8	502.7	494.0	486.8	480.6	477.4	478.2
165°	543.3	535.3	528.2	522.3	514.3	505.2	499.2	494.2	489.2	487.2	487.2
167.5°	533.6	528.1	523.5	519.9	514.0	507.5	502.8	500.1	496.3	495.2	496.3
170°	527.3	523.2	520.2	518.2	513.2	508.2	505.2	503.3	500.2	499.2	500.2
172.5°	521.7	518.4	517.0	516.7	512.5	509.0	506.9	505.7	503.4	503.3	504.2
175°	515.2	513.2	513.2	514.3	511.3	509.3	509.3	508.2	507.2	507.2	508.2
177.5°	510.8	510.1	510.1	511.6	510.1	509.3	509.3	509.3	508.4	509.3	510.1
180°	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3



TEST NUMBER: P332708-935

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1670.4	1675.9	1683.1	1695.2	1699.6	1705.1	1712.8	1712.3	1714.4	1722.7	1740.3
5°	1676.6	1698.0	1718.6	1743.4	1769.4	1786.7	1810.0	1824.5	1838.9	1857.4	1889.0
7.5°	1679.1	1713.0	1750.8	1794.2	1832.8	1877.4	1912.2	1944.9	1974.4	2013.6	2051.3
10°	1675.2	1720.6	1769.4	1824.5	1882.8	1932.3	1977.0	2027.9	2071.2	2118.7	2161.3
12.5°	1668.1	1722.9	1788.1	1849.8	1918.0	1991.2	2046.9	2098.3	2155.9	2210.5	2276.2
15°	1651.9	1726.8	1803.1	1884.2	1975.7	2060.2	2140.7	2207.3	2269.3	2351.0	2437.0
17.5°	1631.3	1712.1	1808.4	1906.5	2002.1	2098.8	2198.3	2298.5	2376.6	2478.2	2545.5
20°	1612.1	1705.6	1804.5	1921.4	2016.9	2137.3	2236.2	2333.1	2440.4	2541.4	2621.8
22.5°	1585.1	1687.4	1792.4	1908.8	2034.5	2154.8	2269.3	2374.4	2481.7	2591.5	2689.0
25°	1550.8	1643.6	1768.1	1900.1	2025.2	2155.8	2287.1	2419.1	2534.5	2650.8	2741.5
27.5°	1492.5	1609.7	1725.6	1861.8	2000.9	2148.6	2289.1	2427.2	2548.2	2643.7	2699.9
30°	1462.8	1564.6	1690.4	1827.2	1977.7	2136.6	2282.9	2418.4	2531.2	2607.5	2630.1
32.5°	1418.8	1523.9	1646.9	1788.7	1948.0	2111.3	2263.7	2391.4	2485.4	2525.5	2498.1
35°	1353.6	1448.5	1572.9	1717.9	1883.5	2057.4	2208.0	2315.9	2364.0	2326.2	2232.1
37.5°	1275.2	1369.2	1494.2	1636.7	1808.1	1984.9	2121.0	2198.6	2182.7	2088.7	1948.4
40°	1220.2	1308.2	1427.1	1581.1	1748.2	1925.5	2045.1	2087.1	2043.1	1908.3	1759.1
42.5°	1159.2	1244.9	1364.4	1512.9	1689.9	1853.5	1957.7	1961.1	1887.4	1726.3	1576.6
45°	1066.2	1148.0	1260.8	1415.4	1579.1	1733.0	1801.7	1768.1	1631.9	1476.6	1326.0
47.5°	974.5	1045.4	1156.5	1303.4	1458.7	1588.4	1622.5	1561.9	1416.8	1266.0	1126.4
50°	907.4	978.9	1083.4	1223.7	1373.5	1485.6	1502.0	1421.6	1279.3	1127.4	1018.0
52.5°	843.1	914.0	1014.7	1144.4	1281.7	1382.7	1383.3	1290.2	1148.4	1013.0	911.4
55°	748.6	812.5	903.3	1019.4	1141.9	1220.9	1201.6	1105.4	982.3	864.8	776.1
57.5°	657.6	713.3	796.9	893.8	1001.6	1066.8	1034.8	942.2	832.3	732.6	665.5
60°	598.7	651.7	723.2	814.6	905.3	956.2	926.0	842.1	741.1	660.6	602.2
62.5°	541.6	586.3	655.0	734.3	818.5	856.1	829.1	746.4	659.1	586.3	539.0
65°	460.5	497.1	552.0	620.1	681.2	713.6	690.9	613.9	547.2	495.0	457.1
67.5°	385.0	413.5	455.0	509.6	561.6	579.1	558.4	504.9	448.3	406.6	379.9
70°	332.7	359.6	394.6	436.5	481.9	500.4	479.8	437.2	391.2	352.7	326.5
72.5°	287.1	307.8	337.4	373.2	408.7	427.3	413.3	372.3	333.4	304.8	282.5
75°	218.6	236.5	257.1	282.5	310.0	322.4	310.0	281.8	255.0	233.8	217.9
77.5°	158.9	168.6	184.5	203.5	220.7	230.1	219.5	200.4	184.0	169.4	161.5
80°	121.0	127.9	138.9	153.9	165.7	174.6	167.7	151.9	138.9	129.2	125.8
82.5°	88.0	92.6	99.8	111.1	118.9	123.5	120.5	109.0	103.7	95.1	91.7
85°	43.3	46.1	50.9	54.3	61.2	61.9	62.6	57.8	53.0	50.9	48.1
87.5°	15.4	16.6	18.4	20.3	22.5	24.3	23.7	24.1	22.3	21.5	19.5
90°	3.0	6.0	7.0	8.0	8.0	14.0	14.0	16.0	18.0	17.0	18.0
92.5°	16.6	26.0	38.2	52.9	73.6	124.5	202.1	277.8	317.4	264.3	196.5
95°	36.0	46.1	59.1	83.0	125.1	212.1	376.2	615.3	815.4	838.4	741.3
97.5°	59.2	67.8	79.8	100.5	135.7	202.7	338.2	575.8	858.8	1053.3	1095.4
100°	76.0	83.0	95.1	114.1	146.1	205.1	318.1	522.3	804.3	1060.5	1206.6
102.5°	93.7	99.9	111.1	129.2	159.7	213.1	312.5	486.2	736.3	1000.5	1201.0
105°	120.0	125.1	137.1	155.1	184.1	232.1	315.1	455.2	656.3	891.4	1120.5
107.5°	146.6	151.7	164.5	181.7	210.3	254.3	329.9	449.6	611.5	803.4	1006.3
110°	165.1	170.0	182.1	200.1	227.1	271.1	341.1	451.3	596.3	759.4	937.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	182.7	188.5	199.7	217.7	244.7	287.1	353.2	456.0	589.1	734.5	887.0
115°	209.1	216.1	226.1	245.1	272.2	312.1	372.2	465.2	585.3	711.4	836.4
117.5°	235.3	241.5	252.5	270.4	298.3	336.4	391.6	475.0	584.3	700.9	811.6
120°	252.1	259.2	270.1	287.1	315.1	353.2	405.2	482.2	584.3	695.3	800.4
122.5°	268.1	275.2	285.3	303.9	331.1	369.2	418.0	489.5	583.5	689.0	790.7
125°	291.1	297.1	308.2	327.2	355.2	391.2	437.2	500.2	582.3	678.3	774.4
127.5°	308.9	316.2	328.7	348.5	376.8	411.6	453.8	508.9	580.1	664.1	754.3
130°	320.1	328.1	343.2	362.1	391.2	425.2	464.3	515.2	579.3	655.3	738.4
132.5°	329.8	340.2	354.4	375.0	402.4	436.4	474.7	520.8	578.5	647.3	721.5
135°	345.2	355.2	372.2	393.2	419.2	452.2	488.3	529.3	577.3	635.3	698.4
137.5°	359.6	370.6	386.8	408.6	433.4	464.3	497.8	534.3	577.0	624.9	677.3
140°	369.2	380.2	397.2	418.2	442.2	472.3	504.2	538.3	576.3	619.3	665.3
142.5°	380.4	390.5	406.8	427.0	450.2	479.4	509.0	541.5	576.3	614.5	654.1
145°	396.2	406.2	420.2	439.2	461.2	487.2	514.3	543.3	574.3	606.3	638.3
147.5°	412.0	420.8	435.2	451.0	470.8	495.2	518.8	544.2	570.7	598.9	625.3
150°	423.2	431.2	443.2	458.2	477.3	499.2	521.2	544.2	568.3	593.3	617.3
152.5°	432.8	440.8	452.0	465.5	482.8	502.5	522.9	542.7	564.3	586.9	608.5
155°	448.2	454.2	464.3	475.3	490.3	507.2	524.3	540.3	558.3	577.3	595.3
157.5°	461.4	467.0	474.8	484.4	496.3	510.7	524.3	537.7	552.1	567.5	581.1
160°	470.2	474.2	481.2	489.2	500.2	512.2	524.3	535.3	547.3	560.3	572.3
162.5°	477.4	480.6	486.8	494.0	502.7	513.8	524.3	532.9	542.4	553.9	563.4
165°	487.2	489.2	494.2	499.2	505.2	514.3	522.3	528.2	535.3	543.3	551.3
167.5°	495.2	496.3	500.1	502.8	507.5	514.0	519.9	523.5	528.1	533.6	539.5
170°	499.2	500.2	503.3	505.2	508.2	513.2	518.2	520.2	523.2	527.3	532.3
172.5°	503.3	503.4	505.7	506.9	509.0	512.5	516.7	517.0	518.4	521.7	525.8
175°	507.2	507.2	508.2	509.3	509.3	511.3	514.3	513.2	513.2	515.2	517.3
177.5°	509.3	508.4	509.3	509.3	509.3	510.1	511.6	510.1	510.1	510.8	511.6
180°	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1749.1	1750.2	1755.1	1759.0	1760.1	1765.6	1766.2
5°	1902.8	1914.5	1937.2	1939.2	1942.7	1960.6	1946.8
7.5°	2082.9	2112.6	2132.4	2149.9	2156.2	2164.0	2162.4
10°	2198.4	2242.4	2264.4	2299.5	2300.9	2309.8	2304.3
12.5°	2314.5	2365.6	2405.7	2412.2	2441.6	2446.2	2453.8
15°	2478.9	2533.1	2588.9	2608.8	2649.4	2659.0	2674.1
17.5°	2633.5	2689.0	2728.0	2779.6	2796.2	2818.5	2803.3
20°	2718.1	2778.6	2828.1	2868.7	2885.8	2898.2	2896.8
22.5°	2769.2	2830.3	2870.4	2901.1	2917.2	2922.4	2922.1
25°	2801.3	2836.3	2848.7	2860.4	2842.5	2836.3	2839.1
27.5°	2712.2	2703.1	2670.8	2628.5	2584.5	2549.5	2530.6
30°	2589.5	2535.9	2487.2	2401.8	2357.9	2331.8	2308.4
32.5°	2415.8	2330.8	2236.9	2158.8	2108.8	2070.0	2064.2
35°	2118.0	1990.1	1875.3	1779.8	1730.3	1688.3	1678.7
37.5°	1800.7	1667.8	1564.4	1480.3	1427.1	1397.6	1369.9
40°	1590.0	1475.9	1374.2	1302.7	1262.1	1240.8	1223.7
42.5°	1427.8	1323.6	1222.4	1167.9	1131.3	1118.2	1108.1
45°	1203.7	1106.7	1036.6	995.4	974.0	952.1	941.8
47.5°	1024.2	945.4	899.1	864.1	841.3	828.2	821.7
50°	922.6	857.9	816.7	789.9	769.2	758.9	753.5
52.5°	832.3	779.3	744.6	723.3	709.3	701.7	699.6
55°	717.0	676.4	654.4	635.8	625.6	618.7	616.0
57.5°	623.2	592.0	574.1	558.9	554.9	549.1	547.2
60°	561.6	537.6	522.5	512.1	508.7	501.8	503.2
62.5°	507.2	487.5	474.6	468.7	464.2	458.4	460.3
65°	429.0	414.5	407.7	402.2	396.7	393.2	396.0
67.5°	359.9	350.1	340.7	337.5	334.8	334.2	331.3
70°	314.9	306.6	298.3	296.3	296.3	293.5	292.8
72.5°	271.4	265.4	259.8	258.3	256.1	257.3	254.3
75°	209.7	204.8	202.8	200.7	200.0	200.0	197.9
77.5°	155.0	151.4	148.1	148.1	145.6	144.6	144.4
80°	117.5	116.1	113.4	113.4	112.0	112.7	111.3
82.5°	88.4	86.4	85.9	84.8	82.9	83.0	81.7
85°	47.4	45.4	44.7	42.6	41.2	42.6	41.2
87.5°	20.3	20.0	19.4	18.5	18.2	17.9	16.3
90°	19.0	20.0	20.0	21.0	22.0	21.0	21.0
92.5°	147.8	117.7	97.6	85.8	80.4	77.1	77.1
95°	586.3	452.2	355.2	306.2	275.2	257.1	244.1
97.5°	1037.7	939.9	835.4	763.5	703.4	673.3	652.6
100°	1226.6	1177.6	1103.5	1016.5	955.5	925.5	917.5
102.5°	1300.2	1314.4	1283.6	1230.2	1185.9	1154.3	1148.0
105°	1293.7	1392.7	1433.7	1435.7	1427.7	1413.7	1407.6
107.5°	1190.6	1330.1	1419.3	1468.7	1491.5	1501.5	1504.2
110°	1110.5	1255.6	1365.6	1436.7	1478.7	1496.8	1505.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1040.1	1177.2	1287.2	1367.9	1418.7	1443.9	1458.5
115°	959.5	1076.5	1172.6	1251.6	1311.6	1343.7	1351.7
117.5°	913.4	1005.5	1086.9	1154.3	1204.8	1237.2	1243.4
120°	893.5	973.4	1044.5	1101.6	1145.6	1171.6	1182.6
122.5°	880.6	953.5	1015.7	1063.9	1101.6	1123.5	1134.5
125°	860.4	929.4	984.5	1024.5	1053.5	1072.5	1078.5
127.5°	836.6	905.4	957.7	997.9	1023.7	1039.7	1045.7
130°	817.4	885.5	938.5	979.5	1004.4	1020.5	1026.5
132.5°	795.8	862.2	915.2	955.5	983.7	998.8	1004.9
135°	763.4	824.4	874.4	914.5	942.5	958.5	964.5
137.5°	732.4	783.8	829.0	866.4	894.1	907.2	914.5
140°	712.3	757.3	799.4	834.4	856.4	870.4	878.4
142.5°	695.5	734.2	770.6	801.6	822.0	834.4	840.0
145°	672.4	702.3	730.4	755.4	772.4	782.4	787.4
147.5°	652.3	676.3	698.4	716.8	731.3	739.0	740.7
150°	640.3	660.3	678.3	694.3	707.3	713.3	714.4
152.5°	628.3	646.7	661.5	675.1	685.7	689.3	690.3
155°	611.3	626.3	638.3	648.3	656.3	659.4	659.4
157.5°	594.5	607.1	616.7	624.3	630.3	632.1	632.1
160°	583.2	594.3	602.3	608.3	614.3	615.3	615.3
162.5°	572.9	581.5	588.7	593.1	599.1	600.1	599.3
165°	557.2	564.3	569.3	573.3	577.3	576.3	575.3
167.5°	544.1	549.7	552.7	554.7	557.2	557.1	556.3
170°	535.3	539.2	542.3	544.2	545.3	544.2	544.2
172.5°	528.1	530.5	532.6	533.8	534.9	533.8	532.3
175°	518.2	520.2	520.2	520.2	522.3	520.2	518.2
177.5°	512.5	512.5	513.2	512.5	513.2	511.6	510.1
180°	509.3	509.3	509.3	509.3	509.3	509.3	509.3

(END OF REPORT)