

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: P332708-840

Luminaire Tested: **SA4XXDIP-C1195D1205U840-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332708-840
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-C1195D1205U840-4F0-1E-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: 9717.4 lumens
Efficiency: N/A
Efficacy: 135.5 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

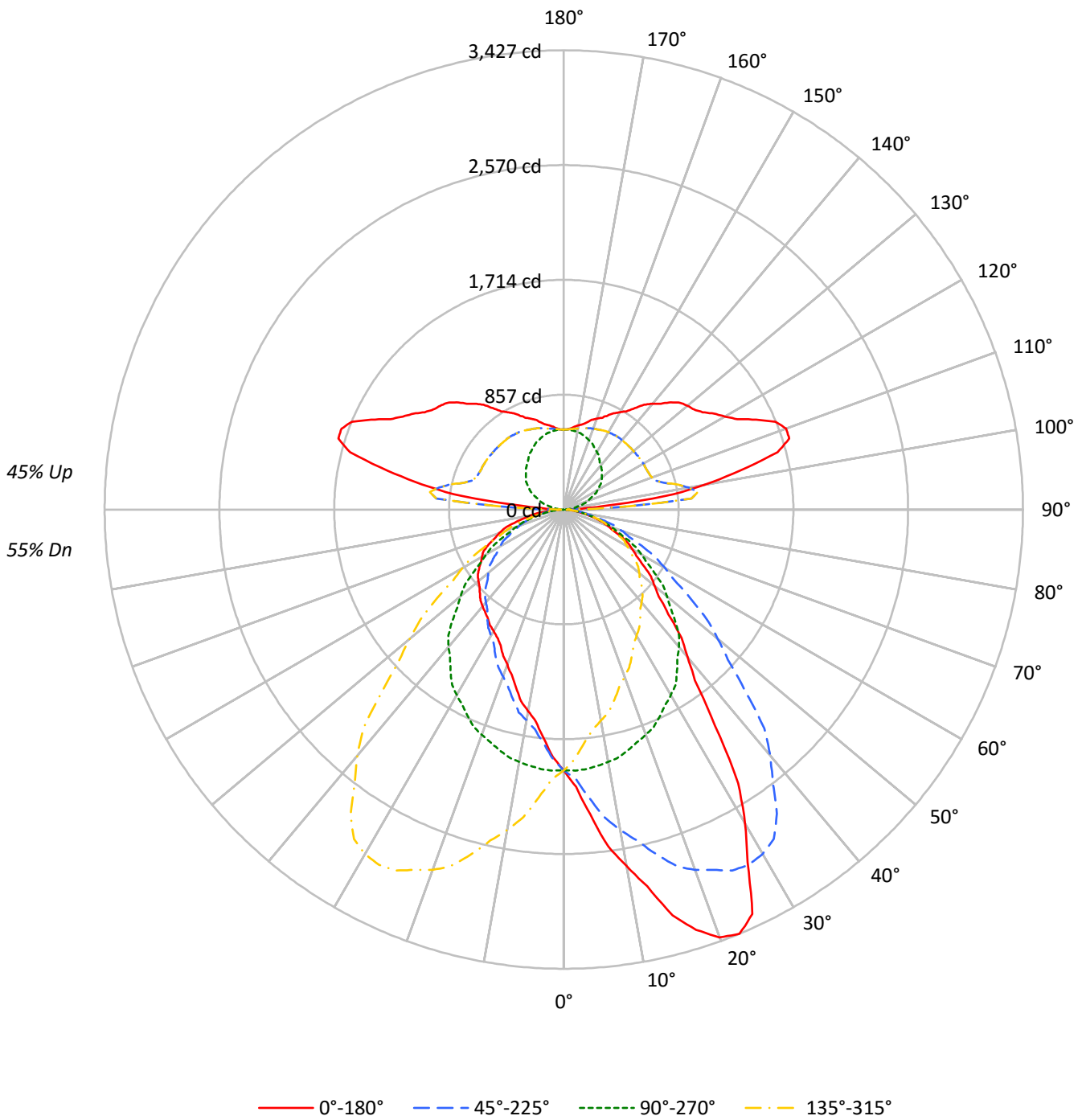
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	15713	15713	15713	15713
5°	18504	15754	13904	15754
10°	22155	15684	12518	15684
15°	26213	15525	11496	15525
20°	29190	15364	10584	15364
25°	29661	15126	9954	15126
30°	25239	14897	9755	14897
35°	19404	14526	9758	14526
40°	15125	14089	9941	14089
45°	12611	13431	10107	13431
50°	11099	12627	10451	12627
55°	10169	11667	10871	11667
60°	9529	10805	11378	10805
65°	8871	9841	11798	9841
70°	8108	8889	12066	8889
75°	7243	7820	11918	7820
80°	6072	6406	11544	6406
85°	4483	4631	11060	4631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	2.0
10°-20°	584.5	6.0
20°-30°	926.8	9.5
30°-40°	1031.4	10.6
40°-50°	938.9	9.7
50°-60°	767.2	7.9
60°-70°	547.7	5.6
70°-80°	301.6	3.1
80°-90°	85.6	0.9
90°-100°	431.4	4.4
100°-110°	897.9	9.2
110°-120°	804.2	8.3
120°-130°	676.5	7.0
130°-140°	564.1	5.8
140°-150°	430.9	4.4
150°-160°	302.9	3.1
160°-170°	178.2	1.8
170°-180°	58.0	0.6
0°-30°	1700.9	17.5
0°-40°	2732.3	28.1
0°-60°	4438.4	45.7
0°-90°	5373.4	55.3
90°-120°	2133.5	22.0
90°-150°	3805.0	39.2
90°-180°	4344.0	44.7
0°-180°	9717.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1946	1946	1946	1946	1946	
5°	2283	1944	1716	1944	2283	232
15°	3136	1858	1376	1858	3136	886
25°	3330	1698	1118	1698	3330	1468
35°	1969	1474	990	1474	1969	1250
45°	1105	1176	885	1176	1105	870
55°	722	829	772	829	722	653
65°	464	515	618	515	464	460
75°	232	251	382	251	232	247
85°	48	50	119	50	48	60
90°	25	1	25	1	25	22
95°	286	39	286	39	286	444
105°	1651	137	1651	137	1651	1632
115°	1585	242	1585	242	1585	1574
125°	1265	337	1265	337	1265	1149
135°	1131	400	1131	400	1131	873
145°	924	461	924	461	924	585
155°	773	524	773	524	773	361
165°	675	572	675	572	675	193
175°	608	596	608	596	608	59
180°	597	597	597	597	597	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	2071.5	2070.8	2064.5	2063.2	2058.6	2052.9	2051.5	2041.2	2020.5	2010.8	2008.3
5°	2283.4	2299.6	2278.6	2274.5	2272.1	2245.5	2231.8	2215.6	2178.6	2156.9	2139.9
7.5°	2536.3	2538.2	2529.0	2521.6	2501.1	2477.9	2443.1	2406.0	2361.8	2315.8	2281.2
10°	2702.7	2709.2	2698.7	2697.0	2655.9	2630.1	2578.5	2535.0	2485.0	2429.3	2378.5
12.5°	2878.1	2869.1	2863.8	2829.2	2821.7	2774.6	2714.6	2669.8	2592.7	2528.7	2461.1
15°	3136.4	3118.8	3107.5	3059.9	3036.5	2971.1	2907.5	2858.3	2757.5	2661.6	2589.0
17.5°	3288.0	3305.8	3279.6	3260.1	3199.7	3153.9	3088.8	2985.6	2906.7	2787.5	2695.9
20°	3397.7	3399.3	3384.8	3364.7	3317.1	3259.0	3188.0	3075.1	2980.8	2862.4	2736.5
22.5°	3427.4	3427.7	3421.5	3402.7	3366.7	3319.6	3248.0	3153.9	3039.6	2910.7	2784.9
25°	3329.9	3326.7	3334.0	3355.0	3341.2	3326.7	3285.6	3215.5	3109.1	2972.7	2837.3
27.5°	2968.1	2990.3	3031.3	3082.9	3132.6	3170.5	3181.2	3166.7	3100.8	2988.8	2846.8
30°	2707.5	2734.9	2765.6	2817.1	2917.2	2974.4	3037.3	3084.8	3058.3	2968.8	2836.5
32.5°	2421.2	2427.9	2473.4	2532.0	2623.6	2733.8	2833.5	2930.0	2962.1	2915.2	2804.9
35°	1968.9	1980.2	2029.4	2087.5	2199.6	2334.2	2484.2	2618.0	2728.5	2772.8	2716.3
37.5°	1606.8	1639.2	1673.9	1736.3	1834.9	1956.2	2112.0	2285.2	2449.8	2560.1	2578.8
40°	1435.2	1455.3	1480.4	1527.9	1611.7	1731.1	1864.9	2063.3	2238.3	2396.3	2447.9
42.5°	1299.7	1311.5	1326.9	1369.9	1433.7	1552.5	1674.7	1849.2	2024.8	2213.7	2300.2
45°	1104.6	1116.7	1142.5	1167.5	1215.9	1298.1	1411.8	1555.3	1731.9	1914.1	2073.8
47.5°	963.7	971.4	986.7	1013.5	1054.6	1108.8	1201.3	1321.2	1484.9	1661.7	1831.9
50°	883.7	890.1	902.2	926.5	957.9	1006.2	1082.1	1194.1	1322.3	1500.5	1667.4
52.5°	820.5	823.0	831.9	848.4	873.3	914.0	976.2	1068.9	1188.1	1347.0	1513.3
55°	722.5	725.7	733.8	745.8	767.6	793.3	840.9	910.3	1014.3	1152.2	1296.5
57.5°	641.8	644.1	650.9	655.5	673.4	694.4	730.9	780.5	859.3	976.2	1105.1
60°	590.2	588.5	596.6	600.7	612.8	630.6	658.7	706.3	774.9	869.2	987.7
62.5°	539.9	537.7	544.4	549.8	556.6	571.8	594.9	632.2	687.7	773.1	875.5
65°	464.4	461.2	465.2	471.7	478.2	486.1	503.1	536.1	580.6	641.8	720.0
67.5°	388.6	392.0	392.6	395.9	399.6	410.6	422.1	445.6	476.9	525.8	592.2
70°	343.5	344.3	347.5	347.5	349.9	359.6	369.3	382.9	413.6	458.8	512.8
72.5°	298.3	301.7	300.4	303.0	304.8	311.2	318.3	331.3	357.5	391.0	436.7
75°	232.2	234.6	234.6	235.4	237.8	240.2	245.9	255.6	274.2	299.1	330.5
77.5°	169.4	169.7	170.8	173.7	173.7	177.5	181.8	189.5	198.6	215.8	235.0
80°	130.6	132.2	131.4	133.0	133.0	136.2	137.8	147.5	151.6	162.9	178.1
82.5°	95.8	97.4	97.3	99.5	100.8	101.4	103.7	107.6	111.6	121.6	127.8
85°	48.4	50.0	48.4	50.0	52.4	53.2	55.6	56.5	59.7	62.1	67.8
87.5°	19.1	21.0	21.3	21.7	22.7	23.4	23.8	22.9	25.2	26.2	28.3
90°	24.6	24.6	25.9	24.6	23.4	23.4	22.3	21.1	20.0	21.1	18.8
92.5°	90.4	90.4	94.3	100.7	114.5	138.0	173.4	230.5	310.0	372.2	325.8
95°	286.3	301.5	322.8	359.1	416.6	530.4	687.6	869.5	983.4	956.3	721.6
97.5°	765.4	789.7	825.0	895.5	979.9	1102.4	1217.1	1284.8	1235.5	1007.3	675.4
100°	1076.1	1085.5	1120.6	1192.2	1294.3	1381.2	1438.7	1415.2	1243.9	943.4	612.6
102.5°	1346.5	1353.9	1391.0	1442.9	1505.5	1541.7	1525.0	1408.7	1173.5	863.6	570.3
105°	1651.0	1658.1	1674.6	1683.9	1681.5	1633.5	1517.3	1314.2	1045.5	769.8	533.9
107.5°	1764.2	1761.1	1749.4	1722.6	1664.7	1560.0	1396.4	1180.2	942.3	717.2	527.4
110°	1766.1	1755.5	1734.3	1685.1	1601.7	1472.7	1302.5	1099.5	890.7	699.4	529.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1710.7	1693.5	1664.0	1604.4	1509.7	1380.7	1219.9	1040.4	861.5	690.9	534.8
115°	1585.4	1576.0	1538.4	1468.0	1375.3	1262.6	1125.4	981.0	834.4	686.5	545.6
117.5°	1458.3	1451.1	1413.1	1353.9	1274.9	1179.3	1071.4	951.9	822.1	685.3	557.1
120°	1387.0	1374.1	1343.6	1292.0	1225.1	1141.8	1047.9	938.8	815.6	685.3	565.6
122.5°	1330.7	1317.8	1292.0	1247.9	1191.3	1118.3	1032.9	927.5	808.1	684.4	574.1
125°	1265.0	1258.0	1235.7	1201.6	1154.7	1090.1	1009.2	908.3	795.6	683.0	586.7
127.5°	1226.5	1219.5	1200.7	1170.4	1123.3	1062.0	981.3	884.7	778.9	680.3	596.8
130°	1204.0	1196.9	1178.1	1148.8	1100.8	1038.5	958.8	866.1	768.6	679.4	604.3
132.5°	1178.6	1171.5	1153.8	1120.6	1073.5	1011.3	933.4	846.3	759.2	678.5	610.9
135°	1131.3	1124.2	1105.4	1072.6	1025.6	966.9	895.3	819.1	745.2	677.1	620.8
137.5°	1072.6	1064.1	1048.6	1016.2	972.3	919.3	859.0	794.5	733.0	676.8	626.6
140°	1030.3	1020.9	1004.5	978.7	937.6	888.3	835.5	780.3	726.4	675.9	631.4
142.5°	985.2	978.7	964.1	940.2	903.8	861.1	815.8	767.2	720.7	675.9	635.1
145°	923.5	917.7	905.9	886.0	856.7	823.7	788.6	748.7	711.1	673.6	637.2
147.5°	868.8	866.8	857.8	840.7	819.1	793.2	765.1	733.5	702.5	669.3	638.3
150°	837.9	836.7	829.6	814.4	795.6	774.5	751.0	724.1	695.9	666.5	638.3
152.5°	809.7	808.5	804.3	791.8	775.9	758.5	736.9	713.7	688.3	661.9	636.5
155°	773.4	773.4	769.8	760.4	748.7	734.6	717.0	698.2	677.1	654.8	633.7
157.5°	741.4	741.4	739.3	732.3	723.4	712.1	697.3	681.6	665.6	647.5	630.7
160°	721.6	721.6	720.5	713.5	706.4	697.0	684.1	671.3	657.1	641.9	627.8
162.5°	702.9	703.9	702.7	695.6	690.4	682.1	672.0	660.9	649.6	636.2	625.0
165°	674.8	675.9	677.1	672.4	667.7	661.9	653.6	646.6	637.2	627.8	619.6
167.5°	652.5	653.4	653.6	650.6	648.2	644.7	638.1	632.8	625.9	619.4	614.0
170°	638.3	638.3	639.5	638.3	636.0	632.5	627.8	624.3	618.4	613.7	610.2
172.5°	624.3	626.1	627.3	626.1	624.7	622.2	619.4	616.7	611.9	608.0	606.4
175°	607.8	610.2	612.6	610.2	610.2	610.2	607.8	606.7	604.3	602.0	602.0
177.5°	598.2	600.1	602.0	601.1	602.0	601.1	601.1	600.1	599.2	598.2	598.2
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	2008.9	1999.9	1993.5	1988.3	1974.1	1965.7	1959.2	1950.3	1940.0	1928.9	1915.4
5°	2122.9	2095.6	2075.4	2044.8	2015.7	1991.6	1966.5	1944.0	1916.5	1886.7	1864.9
7.5°	2242.8	2202.0	2149.7	2104.5	2053.5	2009.1	1969.4	1928.8	1886.5	1845.6	1808.1
10°	2318.9	2266.4	2208.4	2139.9	2075.4	2018.1	1964.9	1913.3	1863.3	1813.3	1770.6
12.5°	2400.9	2335.5	2249.7	2169.6	2097.3	2020.7	1956.5	1893.3	1833.0	1780.5	1730.6
15°	2510.8	2416.4	2317.2	2210.0	2114.9	2025.4	1937.5	1857.6	1790.0	1720.6	1672.2
17.5°	2578.4	2461.6	2348.2	2236.1	2121.0	2008.1	1913.3	1821.3	1736.5	1667.6	1606.6
20°	2622.8	2506.8	2365.6	2253.6	2116.5	2000.4	1890.8	1788.4	1699.7	1626.3	1563.4
22.5°	2661.6	2527.4	2386.3	2238.8	2102.3	1979.1	1859.2	1756.1	1665.5	1588.2	1527.9
25°	2682.5	2528.5	2375.3	2228.6	2073.8	1927.8	1819.0	1698.1	1601.2	1519.8	1455.3
27.5°	2684.8	2520.1	2346.8	2183.7	2024.0	1888.0	1750.6	1642.5	1542.1	1456.0	1394.1
30°	2677.7	2506.0	2319.7	2143.1	1982.7	1835.1	1715.8	1598.1	1495.7	1410.2	1345.6
32.5°	2655.1	2476.3	2284.8	2098.0	1931.7	1787.4	1664.2	1552.3	1452.5	1368.3	1300.5
35°	2589.8	2413.2	2209.2	2014.9	1844.8	1698.9	1587.6	1473.9	1373.9	1294.1	1228.8
37.5°	2487.7	2328.0	2120.7	1919.7	1752.5	1606.0	1495.7	1392.9	1302.8	1221.7	1154.8
40°	2398.7	2258.5	2050.4	1854.4	1673.9	1534.4	1431.2	1336.9	1247.3	1170.7	1107.0
42.5°	2296.1	2173.9	1982.1	1774.4	1600.3	1460.2	1359.6	1274.9	1190.5	1119.7	1056.1
45°	2113.2	2032.7	1852.1	1660.1	1478.7	1346.5	1250.5	1176.4	1105.4	1036.1	982.9
47.5°	1903.0	1863.0	1710.9	1528.7	1356.5	1226.2	1143.0	1074.5	1012.2	953.5	906.6
50°	1761.7	1742.4	1610.9	1435.2	1270.7	1148.1	1064.3	1005.4	952.2	900.6	856.3
52.5°	1622.4	1621.7	1503.3	1342.3	1190.1	1072.1	988.9	933.8	887.8	845.8	806.0
55°	1409.4	1432.0	1339.3	1195.7	1059.4	953.0	878.1	828.9	796.6	761.9	732.2
57.5°	1213.8	1251.2	1174.8	1048.3	934.6	836.6	771.3	734.4	700.0	679.0	657.3
60°	1086.1	1121.6	1061.9	955.4	848.2	764.4	702.3	669.2	639.3	624.9	609.6
62.5°	972.5	1004.1	960.0	861.3	768.2	687.6	635.2	603.4	583.3	567.4	557.3
65°	810.3	837.0	799.0	727.3	647.4	583.0	540.2	515.2	495.8	489.4	478.2
67.5°	655.0	679.2	658.7	597.7	533.7	484.9	451.5	427.5	416.1	410.4	402.3
70°	562.8	586.9	565.2	512.0	462.8	421.7	390.2	376.6	364.5	362.0	350.7
72.5°	484.7	501.2	479.4	437.8	395.8	361.0	336.7	322.3	316.1	311.7	305.6
75°	363.7	378.2	363.7	331.3	301.5	277.4	256.4	250.7	243.5	241.1	237.0
77.5°	257.4	269.9	258.8	238.6	216.4	197.7	186.4	179.2	177.5	173.4	175.3
80°	196.7	204.8	194.3	180.6	162.9	150.0	141.9	137.8	133.0	131.4	134.6
82.5°	141.3	144.8	139.5	130.3	117.0	108.7	103.2	98.6	97.6	97.9	97.9
85°	73.4	72.6	71.8	63.7	59.7	54.0	50.8	50.0	49.2	50.8	52.4
87.5°	27.8	28.5	26.4	23.8	21.6	19.5	18.1	17.0	18.1	19.5	20.3
90°	16.5	16.5	9.4	9.4	8.2	7.1	3.5	1.2	3.5	7.1	8.2
92.5°	237.0	146.0	86.3	62.0	44.8	30.5	19.5	13.3	19.5	30.5	44.8
95°	441.2	248.7	146.7	97.4	69.3	54.0	42.2	38.7	42.2	54.0	69.3
97.5°	396.7	237.7	159.2	117.9	93.6	79.6	69.5	69.5	69.5	79.6	93.6
100°	373.1	240.5	171.4	133.8	111.5	97.4	89.2	89.2	89.2	97.4	111.5
102.5°	366.6	249.9	187.3	151.6	130.3	117.1	109.9	108.0	109.9	117.1	130.3
105°	369.6	272.3	215.9	181.9	160.8	146.7	140.8	137.3	140.8	146.7	160.8
107.5°	387.0	298.3	246.7	213.1	192.9	177.9	172.0	169.7	172.0	177.9	192.9
110°	400.1	318.0	266.4	234.7	213.6	199.4	193.6	191.3	193.6	199.4	213.6



TEST NUMBER: P332708-840

CATALOG NUMBER: SA4XXDIP-C1195D1205U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	414.2	336.8	287.0	255.4	234.2	221.1	214.3	212.0	214.3	221.1	234.2
115°	436.6	366.1	319.2	287.5	265.2	253.5	245.3	241.8	245.3	253.5	265.2
117.5°	459.3	394.6	349.9	317.1	296.2	283.3	276.0	272.7	276.0	283.3	296.2
120°	475.2	414.2	369.6	336.8	316.8	304.0	295.7	293.4	295.7	304.0	316.8
122.5°	490.3	433.0	388.4	356.5	334.7	322.8	314.5	312.1	314.5	322.8	334.7
125°	512.8	458.8	416.6	383.7	361.4	348.5	341.4	336.8	341.4	348.5	361.4
127.5°	532.3	482.7	441.9	408.8	385.6	370.8	362.3	358.6	362.3	370.8	385.6
130°	544.5	498.8	458.8	424.7	402.5	384.9	375.5	370.8	375.5	384.9	402.5
132.5°	556.7	511.9	472.0	439.8	415.7	399.0	386.8	383.0	386.8	399.0	415.7
135°	572.7	530.4	491.7	461.2	436.6	416.6	404.9	400.1	404.9	416.6	436.6
137.5°	583.9	544.5	508.4	479.3	453.6	434.6	421.7	417.3	421.7	434.6	453.6
140°	591.4	553.9	518.7	490.5	465.9	446.0	433.0	429.5	433.0	446.0	465.9
142.5°	597.0	562.3	528.1	500.8	477.2	458.1	446.2	442.6	446.2	458.1	477.2
145°	603.2	571.5	541.0	515.1	492.8	476.5	464.7	461.2	464.7	476.5	492.8
147.5°	608.5	580.9	552.2	529.0	510.5	493.5	483.2	482.0	483.2	493.5	510.5
150°	611.4	585.5	559.8	537.5	519.9	505.7	496.3	495.2	496.3	505.7	519.9
152.5°	613.3	589.4	566.3	545.9	530.2	517.1	507.7	507.4	507.7	517.1	530.2
155°	614.9	594.9	575.0	557.4	544.5	532.7	525.7	524.5	525.7	532.7	544.5
157.5°	614.9	599.0	582.1	568.2	556.9	547.8	541.2	541.2	541.2	547.8	556.9
160°	614.9	600.8	586.7	573.8	564.4	556.2	551.5	551.5	551.5	556.2	564.4
162.5°	614.9	602.7	589.6	579.5	571.0	563.7	560.0	560.9	560.0	563.7	571.0
165°	612.6	603.2	592.6	585.5	579.7	573.8	571.5	571.5	571.5	573.8	579.7
167.5°	609.8	602.9	595.2	589.8	586.5	582.1	580.9	582.1	580.9	582.1	586.5
170°	607.8	602.0	596.1	592.6	590.3	586.7	585.5	586.7	585.5	586.7	590.3
172.5°	606.0	601.1	597.0	594.5	593.1	590.5	590.3	591.4	590.3	590.5	593.1
175°	603.2	599.7	597.3	597.3	596.1	594.9	594.9	596.1	594.9	594.9	596.1
177.5°	600.1	598.2	597.3	597.3	597.3	596.3	597.3	598.2	597.3	596.3	597.3
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3



TEST NUMBER: P332708-840

CATALOG NUMBER: SA4XXDIP-C1195D1205U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	1908.9	1903.2	1894.8	1883.2	1873.5	1863.2	1860.6	1856.7	1864.4	1858.1	1856.0
5°	1846.4	1829.5	1807.7	1782.7	1768.2	1747.3	1743.2	1735.2	1727.1	1726.3	1718.2
7.5°	1780.1	1755.2	1726.8	1701.2	1677.7	1654.9	1639.8	1636.6	1624.7	1617.7	1609.6
10°	1737.6	1706.9	1673.9	1649.7	1622.2	1598.1	1581.1	1571.5	1563.4	1554.5	1546.5
12.5°	1687.3	1654.7	1627.4	1601.2	1568.7	1550.3	1522.5	1505.7	1504.1	1504.2	1483.3
15°	1628.7	1596.5	1554.5	1517.4	1499.6	1464.2	1448.9	1429.6	1417.4	1405.3	1395.7
17.5°	1561.8	1521.7	1488.8	1446.3	1412.5	1384.2	1364.1	1352.5	1334.2	1317.2	1304.7
20°	1519.8	1477.1	1442.5	1397.2	1360.2	1325.5	1308.6	1292.5	1278.8	1264.3	1250.5
22.5°	1477.2	1432.6	1390.2	1346.4	1311.8	1275.3	1258.9	1237.0	1224.0	1215.9	1202.1
25°	1410.2	1361.8	1313.4	1271.5	1236.1	1203.8	1182.0	1165.1	1150.5	1144.1	1135.3
27.5°	1337.3	1289.3	1242.5	1194.9	1154.6	1131.3	1113.8	1101.1	1092.7	1084.1	1080.2
30°	1290.9	1240.9	1190.9	1146.5	1109.4	1086.1	1070.0	1061.1	1054.6	1050.6	1046.5
32.5°	1243.7	1194.5	1141.9	1101.4	1068.1	1047.3	1035.1	1026.2	1023.0	1021.6	1020.2
35°	1168.3	1118.3	1070.0	1033.7	1002.2	994.1	983.7	978.9	977.2	982.9	985.3
37.5°	1095.3	1048.8	1004.3	969.2	948.6	936.8	933.2	933.3	939.2	944.1	950.0
40°	1048.1	1003.0	961.1	930.5	911.1	903.8	902.2	906.3	912.7	918.4	924.8
42.5°	1002.4	957.9	919.8	891.1	877.6	870.9	871.9	876.0	884.9	891.9	901.6
45°	931.3	894.1	857.1	833.7	822.4	824.0	824.0	831.3	840.1	850.6	861.1
47.5°	864.3	827.0	796.5	776.8	770.9	769.5	774.1	783.6	796.3	809.2	823.8
50°	819.2	783.8	757.1	739.3	733.0	735.4	741.7	750.6	766.0	782.1	797.4
52.5°	773.4	741.1	716.5	700.0	695.5	699.8	706.3	720.3	733.8	751.1	769.7
55°	702.3	674.9	655.5	643.4	641.8	644.2	651.5	666.8	686.1	707.9	725.7
57.5°	631.5	608.5	590.9	582.5	583.3	585.5	597.4	615.7	636.3	659.5	682.5
60°	583.7	562.8	548.3	541.8	542.6	547.4	562.0	579.0	604.7	627.3	651.5
62.5°	538.6	520.2	506.3	500.6	499.4	510.1	523.9	541.5	567.3	592.5	618.5
65°	466.1	451.5	440.2	437.0	439.4	447.5	465.2	488.6	510.4	536.9	564.4
67.5°	395.1	383.1	375.4	376.9	379.8	391.7	406.6	426.7	451.4	479.0	506.0
70°	349.9	338.6	332.1	333.0	337.8	352.3	365.3	385.4	412.0	440.2	462.8
72.5°	303.5	296.1	290.2	293.7	298.5	308.5	324.6	344.8	368.2	394.5	418.3
75°	233.0	233.0	229.7	232.2	239.4	249.1	261.3	282.2	305.6	326.6	345.9
77.5°	172.9	171.1	173.2	176.1	180.3	191.8	205.6	220.6	238.2	259.1	275.1
80°	132.2	133.0	137.0	141.9	143.5	152.4	166.9	180.6	194.3	212.1	227.4
82.5°	99.4	100.2	102.2	108.4	110.0	119.5	128.9	142.6	155.0	166.9	179.7
85°	54.0	54.0	58.1	60.5	64.5	71.0	76.5	84.6	95.9	104.0	116.1
87.5°	22.5	22.5	26.5	27.8	30.2	33.9	34.9	42.3	45.1	48.6	54.3
90°	9.4	9.4	16.5	16.5	18.8	21.1	20.0	21.1	22.3	23.4	23.4
92.5°	62.0	86.3	146.0	237.0	325.8	372.2	310.0	230.5	173.4	138.0	114.5
95°	97.4	146.7	248.7	441.2	721.6	956.3	983.4	869.5	687.6	530.4	416.6
97.5°	117.9	159.2	237.7	396.7	675.4	1007.3	1235.5	1284.8	1217.1	1102.4	979.9
100°	133.8	171.4	240.5	373.1	612.6	943.4	1243.9	1415.2	1438.7	1381.2	1294.3
102.5°	151.6	187.3	249.9	366.6	570.3	863.6	1173.5	1408.7	1525.0	1541.7	1505.5
105°	181.9	215.9	272.3	369.6	533.9	769.8	1045.5	1314.2	1517.3	1633.5	1681.5
107.5°	213.1	246.7	298.3	387.0	527.4	717.2	942.3	1180.2	1396.4	1560.0	1664.7
110°	234.7	266.4	318.0	400.1	529.3	699.4	890.7	1099.5	1302.5	1472.7	1601.7



TEST NUMBER: P332708-840

CATALOG NUMBER: SA4XXDIP-C1195D1205U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	255.4	287.0	336.8	414.2	534.8	690.9	861.5	1040.4	1219.9	1380.7	1509.7
115°	287.5	319.2	366.1	436.6	545.6	686.5	834.4	981.0	1125.4	1262.6	1375.3
117.5°	317.1	349.9	394.6	459.3	557.1	685.3	822.1	951.9	1071.4	1179.3	1274.9
120°	336.8	369.6	414.2	475.2	565.6	685.3	815.6	938.8	1047.9	1141.8	1225.1
122.5°	356.5	388.4	433.0	490.3	574.1	684.4	808.1	927.5	1032.9	1118.3	1191.3
125°	383.7	416.6	458.8	512.8	586.7	683.0	795.6	908.3	1009.2	1090.1	1154.7
127.5°	408.8	441.9	482.7	532.3	596.8	680.3	778.9	884.7	981.3	1062.0	1123.3
130°	424.7	458.8	498.8	544.5	604.3	679.4	768.6	866.1	958.8	1038.5	1100.8
132.5°	439.8	472.0	511.9	556.7	610.9	678.5	759.2	846.3	933.4	1011.3	1073.5
135°	461.2	491.7	530.4	572.7	620.8	677.1	745.2	819.1	895.3	966.9	1025.6
137.5°	479.3	508.4	544.5	583.9	626.6	676.8	733.0	794.5	859.0	919.3	972.3
140°	490.5	518.7	553.9	591.4	631.4	675.9	726.4	780.3	835.5	888.3	937.6
142.5°	500.8	528.1	562.3	597.0	635.1	675.9	720.7	767.2	815.8	861.1	903.8
145°	515.1	541.0	571.5	603.2	637.2	673.6	711.1	748.7	788.6	823.7	856.7
147.5°	529.0	552.2	580.9	608.5	638.3	669.3	702.5	733.5	765.1	793.2	819.1
150°	537.5	559.8	585.5	611.4	638.3	666.5	695.9	724.1	751.0	774.5	795.6
152.5°	545.9	566.3	589.4	613.3	636.5	661.9	688.3	713.7	736.9	758.5	775.9
155°	557.4	575.0	594.9	614.9	633.7	654.8	677.1	698.2	717.0	734.6	748.7
157.5°	568.2	582.1	599.0	614.9	630.7	647.5	665.6	681.6	697.3	712.1	723.4
160°	573.8	586.7	600.8	614.9	627.8	641.9	657.1	671.3	684.1	697.0	706.4
162.5°	579.5	589.6	602.7	614.9	625.0	636.2	649.6	660.9	672.0	682.1	690.4
165°	585.5	592.6	603.2	612.6	619.6	627.8	637.2	646.6	653.6	661.9	667.7
167.5°	589.8	595.2	602.9	609.8	614.0	619.4	625.9	632.8	638.1	644.7	648.2
170°	592.6	596.1	602.0	607.8	610.2	613.7	618.4	624.3	627.8	632.5	636.0
172.5°	594.5	597.0	601.1	606.0	606.4	608.0	611.9	616.7	619.4	622.2	624.7
175°	597.3	597.3	599.7	603.2	602.0	602.0	604.3	606.7	607.8	610.2	610.2
177.5°	597.3	597.3	598.2	600.1	598.2	598.2	599.2	600.1	601.1	601.1	602.0
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3



TEST NUMBER: P332708-840

CATALOG NUMBER: SA4XXDIP-C1195D1205U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	1854.8	1853.5	1849.0	1848.4	1849.0	1853.5	1854.8	1856.0	1858.1	1864.4	1856.7
5°	1713.3	1709.3	1706.9	1715.8	1706.9	1709.3	1713.3	1718.2	1726.3	1727.1	1735.2
7.5°	1606.8	1603.6	1596.5	1594.2	1596.5	1603.6	1606.8	1609.6	1617.7	1624.7	1636.6
10°	1538.4	1535.2	1528.7	1527.1	1528.7	1535.2	1538.4	1546.5	1554.5	1563.4	1571.5
12.5°	1472.6	1466.1	1464.9	1466.5	1464.9	1466.1	1472.6	1483.3	1504.2	1504.1	1505.7
15°	1385.2	1382.0	1373.1	1375.5	1373.1	1382.0	1385.2	1395.7	1405.3	1417.4	1429.6
17.5°	1299.1	1295.3	1284.4	1293.9	1284.4	1295.3	1299.1	1304.7	1317.2	1334.2	1352.5
20°	1244.9	1238.5	1232.8	1232.0	1232.8	1238.5	1244.9	1250.5	1264.3	1278.8	1292.5
22.5°	1193.3	1187.5	1187.0	1181.7	1187.0	1187.5	1193.3	1202.1	1215.9	1224.0	1237.0
25°	1128.8	1123.2	1121.6	1117.5	1121.6	1123.2	1128.8	1135.3	1144.1	1150.5	1165.1
27.5°	1079.3	1076.5	1073.7	1074.9	1073.7	1076.5	1079.3	1080.2	1084.1	1092.7	1101.1
30°	1048.9	1048.1	1046.5	1046.5	1046.5	1048.1	1048.9	1046.5	1050.6	1054.6	1061.1
32.5°	1023.8	1023.7	1024.6	1024.6	1024.6	1023.7	1023.8	1020.2	1021.6	1023.0	1026.2
35°	988.6	990.9	992.5	990.1	992.5	990.9	988.6	985.3	982.9	977.2	978.9
37.5°	956.5	959.0	961.3	964.0	961.3	959.0	956.5	950.0	944.1	939.2	933.3
40°	932.1	937.8	939.3	943.3	939.3	937.8	932.1	924.8	918.4	912.7	906.3
42.5°	908.9	915.1	919.3	920.1	919.3	915.1	908.9	901.6	891.9	884.9	876.0
45°	873.2	879.7	885.3	885.3	885.3	879.7	873.2	861.1	850.6	840.1	831.3
47.5°	836.3	845.7	851.3	852.7	851.3	845.7	836.3	823.8	809.2	796.3	783.6
50°	811.1	822.4	828.1	832.1	828.1	822.4	811.1	797.4	782.1	766.0	750.6
52.5°	786.6	797.9	805.5	807.6	805.5	797.9	786.6	769.7	751.1	733.8	720.3
55°	744.2	760.3	769.2	772.4	769.2	760.3	744.2	725.7	707.9	686.1	666.8
57.5°	704.2	719.0	729.3	731.7	729.3	719.0	704.2	682.5	659.5	636.3	615.7
60°	673.3	689.3	702.3	704.7	702.3	689.3	673.3	651.5	627.3	604.7	579.0
62.5°	641.7	658.4	670.0	676.3	670.0	658.4	641.7	618.5	592.5	567.3	541.5
65°	586.9	603.9	615.2	617.6	615.2	603.9	586.9	564.4	536.9	510.4	488.6
67.5°	527.4	544.2	551.7	556.3	551.7	544.2	527.4	506.0	479.0	451.4	426.7
70°	485.3	499.1	507.2	511.2	507.2	499.1	485.3	462.8	440.2	412.0	385.4
72.5°	437.7	452.0	461.4	462.1	461.4	452.0	437.7	418.3	394.5	368.2	344.8
75°	364.5	377.4	382.1	382.1	382.1	377.4	364.5	345.9	326.6	305.6	282.2
77.5°	288.5	295.1	301.2	302.6	301.2	295.1	288.5	275.1	259.1	238.2	220.6
80°	239.4	243.5	248.3	248.3	248.3	243.5	239.4	227.4	212.1	194.3	180.6
82.5°	189.1	192.6	197.4	196.7	197.4	192.6	189.1	179.7	166.9	155.0	142.6
85°	114.5	121.8	121.0	119.4	121.0	121.8	114.5	116.1	104.0	95.9	84.6
87.5°	56.6	57.4	59.1	60.4	59.1	57.4	56.6	54.3	48.6	45.1	42.3
90°	24.6	25.9	24.6	24.6	24.6	25.9	24.6	23.4	23.4	22.3	21.1
92.5°	100.7	94.3	90.4	90.4	90.4	94.3	100.7	114.5	138.0	173.4	230.5
95°	359.1	322.8	301.5	286.3	301.5	322.8	359.1	416.6	530.4	687.6	869.5
97.5°	895.5	825.0	789.7	765.4	789.7	825.0	895.5	979.9	1102.4	1217.1	1284.8
100°	1192.2	1120.6	1085.5	1076.1	1085.5	1120.6	1192.2	1294.3	1381.2	1438.7	1415.2
102.5°	1442.9	1391.0	1353.9	1346.5	1353.9	1391.0	1442.9	1505.5	1541.7	1525.0	1408.7
105°	1683.9	1674.6	1658.1	1651.0	1658.1	1674.6	1683.9	1681.5	1633.5	1517.3	1314.2
107.5°	1722.6	1749.4	1761.1	1764.2	1761.1	1749.4	1722.6	1664.7	1560.0	1396.4	1180.2
110°	1685.1	1734.3	1755.5	1766.1	1755.5	1734.3	1685.1	1601.7	1472.7	1302.5	1099.5



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1604.4	1664.0	1693.5	1710.7	1693.5	1664.0	1604.4	1509.7	1380.7	1219.9	1040.4
115°	1468.0	1538.4	1576.0	1585.4	1576.0	1538.4	1468.0	1375.3	1262.6	1125.4	981.0
117.5°	1353.9	1413.1	1451.1	1458.3	1451.1	1413.1	1353.9	1274.9	1179.3	1071.4	951.9
120°	1292.0	1343.6	1374.1	1387.0	1374.1	1343.6	1292.0	1225.1	1141.8	1047.9	938.8
122.5°	1247.9	1292.0	1317.8	1330.7	1317.8	1292.0	1247.9	1191.3	1118.3	1032.9	927.5
125°	1201.6	1235.7	1258.0	1265.0	1258.0	1235.7	1201.6	1154.7	1090.1	1009.2	908.3
127.5°	1170.4	1200.7	1219.5	1226.5	1219.5	1200.7	1170.4	1123.3	1062.0	981.3	884.7
130°	1148.8	1178.1	1196.9	1204.0	1196.9	1178.1	1148.8	1100.8	1038.5	958.8	866.1
132.5°	1120.6	1153.8	1171.5	1178.6	1171.5	1153.8	1120.6	1073.5	1011.3	933.4	846.3
135°	1072.6	1105.4	1124.2	1131.3	1124.2	1105.4	1072.6	1025.6	966.9	895.3	819.1
137.5°	1016.2	1048.6	1064.1	1072.6	1064.1	1048.6	1016.2	972.3	919.3	859.0	794.5
140°	978.7	1004.5	1020.9	1030.3	1020.9	1004.5	978.7	937.6	888.3	835.5	780.3
142.5°	940.2	964.1	978.7	985.2	978.7	964.1	940.2	903.8	861.1	815.8	767.2
145°	886.0	905.9	917.7	923.5	917.7	905.9	886.0	856.7	823.7	788.6	748.7
147.5°	840.7	857.8	866.8	868.8	866.8	857.8	840.7	819.1	793.2	765.1	733.5
150°	814.4	829.6	836.7	837.9	836.7	829.6	814.4	795.6	774.5	751.0	724.1
152.5°	791.8	804.3	808.5	809.7	808.5	804.3	791.8	775.9	758.5	736.9	713.7
155°	760.4	769.8	773.4	773.4	773.4	769.8	760.4	748.7	734.6	717.0	698.2
157.5°	732.3	739.3	741.4	741.4	741.4	739.3	732.3	723.4	712.1	697.3	681.6
160°	713.5	720.5	721.6	721.6	721.6	720.5	713.5	706.4	697.0	684.1	671.3
162.5°	695.6	702.7	703.9	702.9	703.9	702.7	695.6	690.4	682.1	672.0	660.9
165°	672.4	677.1	675.9	674.8	675.9	677.1	672.4	667.7	661.9	653.6	646.6
167.5°	650.6	653.6	653.4	652.5	653.4	653.6	650.6	648.2	644.7	638.1	632.8
170°	638.3	639.5	638.3	638.3	638.3	639.5	638.3	636.0	632.5	627.8	624.3
172.5°	626.1	627.3	626.1	624.3	626.1	627.3	626.1	624.7	622.2	619.4	616.7
175°	610.2	612.6	610.2	607.8	610.2	612.6	610.2	610.2	610.2	607.8	606.7
177.5°	601.1	602.0	600.1	598.2	600.1	602.0	601.1	602.0	601.1	601.1	600.1
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	1860.6	1863.2	1873.5	1883.2	1894.8	1903.2	1908.9	1915.4	1928.9	1940.0	1950.3
5°	1743.2	1747.3	1768.2	1782.7	1807.7	1829.5	1846.4	1864.9	1886.7	1916.5	1944.0
7.5°	1639.8	1654.9	1677.7	1701.2	1726.8	1755.2	1780.1	1808.1	1845.6	1886.5	1928.8
10°	1581.1	1598.1	1622.2	1649.7	1673.9	1706.9	1737.6	1770.6	1813.3	1863.3	1913.3
12.5°	1522.5	1550.3	1568.7	1601.2	1627.4	1654.7	1687.3	1730.6	1780.5	1833.0	1893.3
15°	1448.9	1464.2	1499.6	1517.4	1554.5	1596.5	1628.7	1672.2	1720.6	1790.0	1857.6
17.5°	1364.1	1384.2	1412.5	1446.3	1488.8	1521.7	1561.8	1606.6	1667.6	1736.5	1821.3
20°	1308.6	1325.5	1360.2	1397.2	1442.5	1477.1	1519.8	1563.4	1626.3	1699.7	1788.4
22.5°	1258.9	1275.3	1311.8	1346.4	1390.2	1432.6	1477.2	1527.9	1588.2	1665.5	1756.1
25°	1182.0	1203.8	1236.1	1271.5	1313.4	1361.8	1410.2	1455.3	1519.8	1601.2	1698.1
27.5°	1113.8	1131.3	1154.6	1194.9	1242.5	1289.3	1337.3	1394.1	1456.0	1542.1	1642.5
30°	1070.0	1086.1	1109.4	1146.5	1190.9	1240.9	1290.9	1345.6	1410.2	1495.7	1598.1
32.5°	1035.1	1047.3	1068.1	1101.4	1141.9	1194.5	1243.7	1300.5	1368.3	1452.5	1552.3
35°	983.7	994.1	1002.2	1033.7	1070.0	1118.3	1168.3	1228.8	1294.1	1373.9	1473.9
37.5°	933.2	936.8	948.6	969.2	1004.3	1048.8	1095.3	1154.8	1221.7	1302.8	1392.9
40°	902.2	903.8	911.1	930.5	961.1	1003.0	1048.1	1107.0	1170.7	1247.3	1336.9
42.5°	871.9	870.9	877.6	891.1	919.8	957.9	1002.4	1056.1	1119.7	1190.5	1274.9
45°	824.0	824.0	822.4	833.7	857.1	894.1	931.3	982.9	1036.1	1105.4	1176.4
47.5°	774.1	769.5	770.9	776.8	796.5	827.0	864.3	906.6	953.5	1012.2	1074.5
50°	741.7	735.4	733.0	739.3	757.1	783.8	819.2	856.3	900.6	952.2	1005.4
52.5°	706.3	699.8	695.5	700.0	716.5	741.1	773.4	806.0	845.8	887.8	933.8
55°	651.5	644.2	641.8	643.4	655.5	674.9	702.3	732.2	761.9	796.6	828.9
57.5°	597.4	585.5	583.3	582.5	590.9	608.5	631.5	657.3	679.0	700.0	734.4
60°	562.0	547.4	542.6	541.8	548.3	562.8	583.7	609.6	624.9	639.3	669.2
62.5°	523.9	510.1	499.4	500.6	506.3	520.2	538.6	557.3	567.4	583.3	603.4
65°	465.2	447.5	439.4	437.0	440.2	451.5	466.1	478.2	489.4	495.8	515.2
67.5°	406.6	391.7	379.8	376.9	375.4	383.1	395.1	402.3	410.4	416.1	427.5
70°	365.3	352.3	337.8	333.0	332.1	338.6	349.9	350.7	362.0	364.5	376.6
72.5°	324.6	308.5	298.5	293.7	290.2	296.1	303.5	305.6	311.7	316.1	322.3
75°	261.3	249.1	239.4	232.2	229.7	233.0	233.0	237.0	241.1	243.5	250.7
77.5°	205.6	191.8	180.3	176.1	173.2	171.1	172.9	175.3	173.4	177.5	179.2
80°	166.9	152.4	143.5	141.9	137.0	133.0	132.2	134.6	131.4	133.0	137.8
82.5°	128.9	119.5	110.0	108.4	102.2	100.2	99.4	97.9	97.9	97.6	98.6
85°	76.5	71.0	64.5	60.5	58.1	54.0	54.0	52.4	50.8	49.2	50.0
87.5°	34.9	33.9	30.2	27.8	26.5	22.5	22.5	20.3	19.5	18.1	17.0
90°	20.0	21.1	18.8	16.5	16.5	9.4	9.4	8.2	7.1	3.5	1.2
92.5°	310.0	372.2	325.8	237.0	146.0	86.3	62.0	44.8	30.5	19.5	13.3
95°	983.4	956.3	721.6	441.2	248.7	146.7	97.4	69.3	54.0	42.2	38.7
97.5°	1235.5	1007.3	675.4	396.7	237.7	159.2	117.9	93.6	79.6	69.5	69.5
100°	1243.9	943.4	612.6	373.1	240.5	171.4	133.8	111.5	97.4	89.2	89.2
102.5°	1173.5	863.6	570.3	366.6	249.9	187.3	151.6	130.3	117.1	109.9	108.0
105°	1045.5	769.8	533.9	369.6	272.3	215.9	181.9	160.8	146.7	140.8	137.3
107.5°	942.3	717.2	527.4	387.0	298.3	246.7	213.1	192.9	177.9	172.0	169.7
110°	890.7	699.4	529.3	400.1	318.0	266.4	234.7	213.6	199.4	193.6	191.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	861.5	690.9	534.8	414.2	336.8	287.0	255.4	234.2	221.1	214.3	212.0
115°	834.4	686.5	545.6	436.6	366.1	319.2	287.5	265.2	253.5	245.3	241.8
117.5°	822.1	685.3	557.1	459.3	394.6	349.9	317.1	296.2	283.3	276.0	272.7
120°	815.6	685.3	565.6	475.2	414.2	369.6	336.8	316.8	304.0	295.7	293.4
122.5°	808.1	684.4	574.1	490.3	433.0	388.4	356.5	334.7	322.8	314.5	312.1
125°	795.6	683.0	586.7	512.8	458.8	416.6	383.7	361.4	348.5	341.4	336.8
127.5°	778.9	680.3	596.8	532.3	482.7	441.9	408.8	385.6	370.8	362.3	358.6
130°	768.6	679.4	604.3	544.5	498.8	458.8	424.7	402.5	384.9	375.5	370.8
132.5°	759.2	678.5	610.9	556.7	511.9	472.0	439.8	415.7	399.0	386.8	383.0
135°	745.2	677.1	620.8	572.7	530.4	491.7	461.2	436.6	416.6	404.9	400.1
137.5°	733.0	676.8	626.6	583.9	544.5	508.4	479.3	453.6	434.6	421.7	417.3
140°	726.4	675.9	631.4	591.4	553.9	518.7	490.5	465.9	446.0	433.0	429.5
142.5°	720.7	675.9	635.1	597.0	562.3	528.1	500.8	477.2	458.1	446.2	442.6
145°	711.1	673.6	637.2	603.2	571.5	541.0	515.1	492.8	476.5	464.7	461.2
147.5°	702.5	669.3	638.3	608.5	580.9	552.2	529.0	510.5	493.5	483.2	482.0
150°	695.9	666.5	638.3	611.4	585.5	559.8	537.5	519.9	505.7	496.3	495.2
152.5°	688.3	661.9	636.5	613.3	589.4	566.3	545.9	530.2	517.1	507.7	507.4
155°	677.1	654.8	633.7	614.9	594.9	575.0	557.4	544.5	532.7	525.7	524.5
157.5°	665.6	647.5	630.7	614.9	599.0	582.1	568.2	556.9	547.8	541.2	541.2
160°	657.1	641.9	627.8	614.9	600.8	586.7	573.8	564.4	556.2	551.5	551.5
162.5°	649.6	636.2	625.0	614.9	602.7	589.6	579.5	571.0	563.7	560.0	560.9
165°	637.2	627.8	619.6	612.6	603.2	592.6	585.5	579.7	573.8	571.5	571.5
167.5°	625.9	619.4	614.0	609.8	602.9	595.2	589.8	586.5	582.1	580.9	582.1
170°	618.4	613.7	610.2	607.8	602.0	596.1	592.6	590.3	586.7	585.5	586.7
172.5°	611.9	608.0	606.4	606.0	601.1	597.0	594.5	593.1	590.5	590.3	591.4
175°	604.3	602.0	602.0	603.2	599.7	597.3	597.3	596.1	594.9	594.9	596.1
177.5°	599.2	598.2	598.2	600.1	598.2	597.3	597.3	597.3	596.3	597.3	598.2
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3



TEST NUMBER: P332708-840

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	1959.2	1965.7	1974.1	1988.3	1993.5	1999.9	2008.9	2008.3	2010.8	2020.5	2041.2
5°	1966.5	1991.6	2015.7	2044.8	2075.4	2095.6	2122.9	2139.9	2156.9	2178.6	2215.6
7.5°	1969.4	2009.1	2053.5	2104.5	2149.7	2202.0	2242.8	2281.2	2315.8	2361.8	2406.0
10°	1964.9	2018.1	2075.4	2139.9	2208.4	2266.4	2318.9	2378.5	2429.3	2485.0	2535.0
12.5°	1956.5	2020.7	2097.3	2169.6	2249.7	2335.5	2400.9	2461.1	2528.7	2592.7	2669.8
15°	1937.5	2025.4	2114.9	2210.0	2317.2	2416.4	2510.8	2589.0	2661.6	2757.5	2858.3
17.5°	1913.3	2008.1	2121.0	2236.1	2348.2	2461.6	2578.4	2695.9	2787.5	2906.7	2985.6
20°	1890.8	2000.4	2116.5	2253.6	2365.6	2506.8	2622.8	2736.5	2862.4	2980.8	3075.1
22.5°	1859.2	1979.1	2102.3	2238.8	2386.3	2527.4	2661.6	2784.9	2910.7	3039.6	3153.9
25°	1819.0	1927.8	2073.8	2228.6	2375.3	2528.5	2682.5	2837.3	2972.7	3109.1	3215.5
27.5°	1750.6	1888.0	2024.0	2183.7	2346.8	2520.1	2684.8	2846.8	2988.8	3100.8	3166.7
30°	1715.8	1835.1	1982.7	2143.1	2319.7	2506.0	2677.7	2836.5	2968.8	3058.3	3084.8
32.5°	1664.2	1787.4	1931.7	2098.0	2284.8	2476.3	2655.1	2804.9	2915.2	2962.1	2930.0
35°	1587.6	1698.9	1844.8	2014.9	2209.2	2413.2	2589.8	2716.3	2772.8	2728.5	2618.0
37.5°	1495.7	1606.0	1752.5	1919.7	2120.7	2328.0	2487.7	2578.8	2560.1	2449.8	2285.2
40°	1431.2	1534.4	1673.9	1854.4	2050.4	2258.5	2398.7	2447.9	2396.3	2238.3	2063.3
42.5°	1359.6	1460.2	1600.3	1774.4	1982.1	2173.9	2296.1	2300.2	2213.7	2024.8	1849.2
45°	1250.5	1346.5	1478.7	1660.1	1852.1	2032.7	2113.2	2073.8	1914.1	1731.9	1555.3
47.5°	1143.0	1226.2	1356.5	1528.7	1710.9	1863.0	1903.0	1831.9	1661.7	1484.9	1321.2
50°	1064.3	1148.1	1270.7	1435.2	1610.9	1742.4	1761.7	1667.4	1500.5	1322.3	1194.1
52.5°	988.9	1072.1	1190.1	1342.3	1503.3	1621.7	1622.4	1513.3	1347.0	1188.1	1068.9
55°	878.1	953.0	1059.4	1195.7	1339.3	1432.0	1409.4	1296.5	1152.2	1014.3	910.3
57.5°	771.3	836.6	934.6	1048.3	1174.8	1251.2	1213.8	1105.1	976.2	859.3	780.5
60°	702.3	764.4	848.2	955.4	1061.9	1121.6	1086.1	987.7	869.2	774.9	706.3
62.5°	635.2	687.6	768.2	861.3	960.0	1004.1	972.5	875.5	773.1	687.7	632.2
65°	540.2	583.0	647.4	727.3	799.0	837.0	810.3	720.0	641.8	580.6	536.1
67.5°	451.5	484.9	533.7	597.7	658.7	679.2	655.0	592.2	525.8	476.9	445.6
70°	390.2	421.7	462.8	512.0	565.2	586.9	562.8	512.8	458.8	413.6	382.9
72.5°	336.7	361.0	395.8	437.8	479.4	501.2	484.7	436.7	391.0	357.5	331.3
75°	256.4	277.4	301.5	331.3	363.7	378.2	363.7	330.5	299.1	274.2	255.6
77.5°	186.4	197.7	216.4	238.6	258.8	269.9	257.4	235.0	215.8	198.6	189.5
80°	141.9	150.0	162.9	180.6	194.3	204.8	196.7	178.1	162.9	151.6	147.5
82.5°	103.2	108.7	117.0	130.3	139.5	144.8	141.3	127.8	121.6	111.6	107.6
85°	50.8	54.0	59.7	63.7	71.8	72.6	73.4	67.8	62.1	59.7	56.5
87.5°	18.1	19.5	21.6	23.8	26.4	28.5	27.8	28.3	26.2	25.2	22.9
90°	3.5	7.1	8.2	9.4	9.4	16.5	16.5	18.8	21.1	20.0	21.1
92.5°	19.5	30.5	44.8	62.0	86.3	146.0	237.0	325.8	372.2	310.0	230.5
95°	42.2	54.0	69.3	97.4	146.7	248.7	441.2	721.6	956.3	983.4	869.5
97.5°	69.5	79.6	93.6	117.9	159.2	237.7	396.7	675.4	1007.3	1235.5	1284.8
100°	89.2	97.4	111.5	133.8	171.4	240.5	373.1	612.6	943.4	1243.9	1415.2
102.5°	109.9	117.1	130.3	151.6	187.3	249.9	366.6	570.3	863.6	1173.5	1408.7
105°	140.8	146.7	160.8	181.9	215.9	272.3	369.6	533.9	769.8	1045.5	1314.2
107.5°	172.0	177.9	192.9	213.1	246.7	298.3	387.0	527.4	717.2	942.3	1180.2
110°	193.6	199.4	213.6	234.7	266.4	318.0	400.1	529.3	699.4	890.7	1099.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	214.3	221.1	234.2	255.4	287.0	336.8	414.2	534.8	690.9	861.5	1040.4
115°	245.3	253.5	265.2	287.5	319.2	366.1	436.6	545.6	686.5	834.4	981.0
117.5°	276.0	283.3	296.2	317.1	349.9	394.6	459.3	557.1	685.3	822.1	951.9
120°	295.7	304.0	316.8	336.8	369.6	414.2	475.2	565.6	685.3	815.6	938.8
122.5°	314.5	322.8	334.7	356.5	388.4	433.0	490.3	574.1	684.4	808.1	927.5
125°	341.4	348.5	361.4	383.7	416.6	458.8	512.8	586.7	683.0	795.6	908.3
127.5°	362.3	370.8	385.6	408.8	441.9	482.7	532.3	596.8	680.3	778.9	884.7
130°	375.5	384.9	402.5	424.7	458.8	498.8	544.5	604.3	679.4	768.6	866.1
132.5°	386.8	399.0	415.7	439.8	472.0	511.9	556.7	610.9	678.5	759.2	846.3
135°	404.9	416.6	436.6	461.2	491.7	530.4	572.7	620.8	677.1	745.2	819.1
137.5°	421.7	434.6	453.6	479.3	508.4	544.5	583.9	626.6	676.8	733.0	794.5
140°	433.0	446.0	465.9	490.5	518.7	553.9	591.4	631.4	675.9	726.4	780.3
142.5°	446.2	458.1	477.2	500.8	528.1	562.3	597.0	635.1	675.9	720.7	767.2
145°	464.7	476.5	492.8	515.1	541.0	571.5	603.2	637.2	673.6	711.1	748.7
147.5°	483.2	493.5	510.5	529.0	552.2	580.9	608.5	638.3	669.3	702.5	733.5
150°	496.3	505.7	519.9	537.5	559.8	585.5	611.4	638.3	666.5	695.9	724.1
152.5°	507.7	517.1	530.2	545.9	566.3	589.4	613.3	636.5	661.9	688.3	713.7
155°	525.7	532.7	544.5	557.4	575.0	594.9	614.9	633.7	654.8	677.1	698.2
157.5°	541.2	547.8	556.9	568.2	582.1	599.0	614.9	630.7	647.5	665.6	681.6
160°	551.5	556.2	564.4	573.8	586.7	600.8	614.9	627.8	641.9	657.1	671.3
162.5°	560.0	563.7	571.0	579.5	589.6	602.7	614.9	625.0	636.2	649.6	660.9
165°	571.5	573.8	579.7	585.5	592.6	603.2	612.6	619.6	627.8	637.2	646.6
167.5°	580.9	582.1	586.5	589.8	595.2	602.9	609.8	614.0	619.4	625.9	632.8
170°	585.5	586.7	590.3	592.6	596.1	602.0	607.8	610.2	613.7	618.4	624.3
172.5°	590.3	590.5	593.1	594.5	597.0	601.1	606.0	606.4	608.0	611.9	616.7
175°	594.9	594.9	596.1	597.3	597.3	599.7	603.2	602.0	602.0	604.3	606.7
177.5°	597.3	596.3	597.3	597.3	597.3	598.2	600.1	598.2	598.2	599.2	600.1
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	2051.5	2052.9	2058.6	2063.2	2064.5	2070.8	2071.5
5°	2231.8	2245.5	2272.1	2274.5	2278.6	2299.6	2283.4
7.5°	2443.1	2477.9	2501.1	2521.6	2529.0	2538.2	2536.3
10°	2578.5	2630.1	2655.9	2697.0	2698.7	2709.2	2702.7
12.5°	2714.6	2774.6	2821.7	2829.2	2863.8	2869.1	2878.1
15°	2907.5	2971.1	3036.5	3059.9	3107.5	3118.8	3136.4
17.5°	3088.8	3153.9	3199.7	3260.1	3279.6	3305.8	3288.0
20°	3188.0	3259.0	3317.1	3364.7	3384.8	3399.3	3397.7
22.5°	3248.0	3319.6	3366.7	3402.7	3421.5	3427.7	3427.4
25°	3285.6	3326.7	3341.2	3355.0	3334.0	3326.7	3329.9
27.5°	3181.2	3170.5	3132.6	3082.9	3031.3	2990.3	2968.1
30°	3037.3	2974.4	2917.2	2817.1	2765.6	2734.9	2707.5
32.5°	2833.5	2733.8	2623.6	2532.0	2473.4	2427.9	2421.2
35°	2484.2	2334.2	2199.6	2087.5	2029.4	1980.2	1968.9
37.5°	2112.0	1956.2	1834.9	1736.3	1673.9	1639.2	1606.8
40°	1864.9	1731.1	1611.7	1527.9	1480.4	1455.3	1435.2
42.5°	1674.7	1552.5	1433.7	1369.9	1326.9	1311.5	1299.7
45°	1411.8	1298.1	1215.9	1167.5	1142.5	1116.7	1104.6
47.5°	1201.3	1108.8	1054.6	1013.5	986.7	971.4	963.7
50°	1082.1	1006.2	957.9	926.5	902.2	890.1	883.7
52.5°	976.2	914.0	873.3	848.4	831.9	823.0	820.5
55°	840.9	793.3	767.6	745.8	733.8	725.7	722.5
57.5°	730.9	694.4	673.4	655.5	650.9	644.1	641.8
60°	658.7	630.6	612.8	600.7	596.6	588.5	590.2
62.5°	594.9	571.8	556.6	549.8	544.4	537.7	539.9
65°	503.1	486.1	478.2	471.7	465.2	461.2	464.4
67.5°	422.1	410.6	399.6	395.9	392.6	392.0	388.6
70°	369.3	359.6	349.9	347.5	347.5	344.3	343.5
72.5°	318.3	311.2	304.8	303.0	300.4	301.7	298.3
75°	245.9	240.2	237.8	235.4	234.6	234.6	232.2
77.5°	181.8	177.5	173.7	173.7	170.8	169.7	169.4
80°	137.8	136.2	133.0	133.0	131.4	132.2	130.6
82.5°	103.7	101.4	100.8	99.5	97.3	97.4	95.8
85°	55.6	53.2	52.4	50.0	48.4	50.0	48.4
87.5°	23.8	23.4	22.7	21.7	21.3	21.0	19.1
90°	22.3	23.4	23.4	24.6	25.9	24.6	24.6
92.5°	173.4	138.0	114.5	100.7	94.3	90.4	90.4
95°	687.6	530.4	416.6	359.1	322.8	301.5	286.3
97.5°	1217.1	1102.4	979.9	895.5	825.0	789.7	765.4
100°	1438.7	1381.2	1294.3	1192.2	1120.6	1085.5	1076.1
102.5°	1525.0	1541.7	1505.5	1442.9	1391.0	1353.9	1346.5
105°	1517.3	1633.5	1681.5	1683.9	1674.6	1658.1	1651.0
107.5°	1396.4	1560.0	1664.7	1722.6	1749.4	1761.1	1764.2
110°	1302.5	1472.7	1601.7	1685.1	1734.3	1755.5	1766.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1219.9	1380.7	1509.7	1604.4	1664.0	1693.5	1710.7
115°	1125.4	1262.6	1375.3	1468.0	1538.4	1576.0	1585.4
117.5°	1071.4	1179.3	1274.9	1353.9	1413.1	1451.1	1458.3
120°	1047.9	1141.8	1225.1	1292.0	1343.6	1374.1	1387.0
122.5°	1032.9	1118.3	1191.3	1247.9	1292.0	1317.8	1330.7
125°	1009.2	1090.1	1154.7	1201.6	1235.7	1258.0	1265.0
127.5°	981.3	1062.0	1123.3	1170.4	1200.7	1219.5	1226.5
130°	958.8	1038.5	1100.8	1148.8	1178.1	1196.9	1204.0
132.5°	933.4	1011.3	1073.5	1120.6	1153.8	1171.5	1178.6
135°	895.3	966.9	1025.6	1072.6	1105.4	1124.2	1131.3
137.5°	859.0	919.3	972.3	1016.2	1048.6	1064.1	1072.6
140°	835.5	888.3	937.6	978.7	1004.5	1020.9	1030.3
142.5°	815.8	861.1	903.8	940.2	964.1	978.7	985.2
145°	788.6	823.7	856.7	886.0	905.9	917.7	923.5
147.5°	765.1	793.2	819.1	840.7	857.8	866.8	868.8
150°	751.0	774.5	795.6	814.4	829.6	836.7	837.9
152.5°	736.9	758.5	775.9	791.8	804.3	808.5	809.7
155°	717.0	734.6	748.7	760.4	769.8	773.4	773.4
157.5°	697.3	712.1	723.4	732.3	739.3	741.4	741.4
160°	684.1	697.0	706.4	713.5	720.5	721.6	721.6
162.5°	672.0	682.1	690.4	695.6	702.7	703.9	702.9
165°	653.6	661.9	667.7	672.4	677.1	675.9	674.8
167.5°	638.1	644.7	648.2	650.6	653.6	653.4	652.5
170°	627.8	632.5	636.0	638.3	639.5	638.3	638.3
172.5°	619.4	622.2	624.7	626.1	627.3	626.1	624.3
175°	607.8	610.2	610.2	610.2	612.6	610.2	607.8
177.5°	601.1	601.1	602.0	601.1	602.0	600.1	598.2
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3

(END OF REPORT)