

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: P332699-840

Luminaire Tested: **SA4XXDIP-C1195D1035U840-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332699-840  
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-C1195D1035U840-4F0-1E-UDD-A4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1035 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9105.0 lumens  
Efficiency: N/A  
Efficacy: 136.3 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

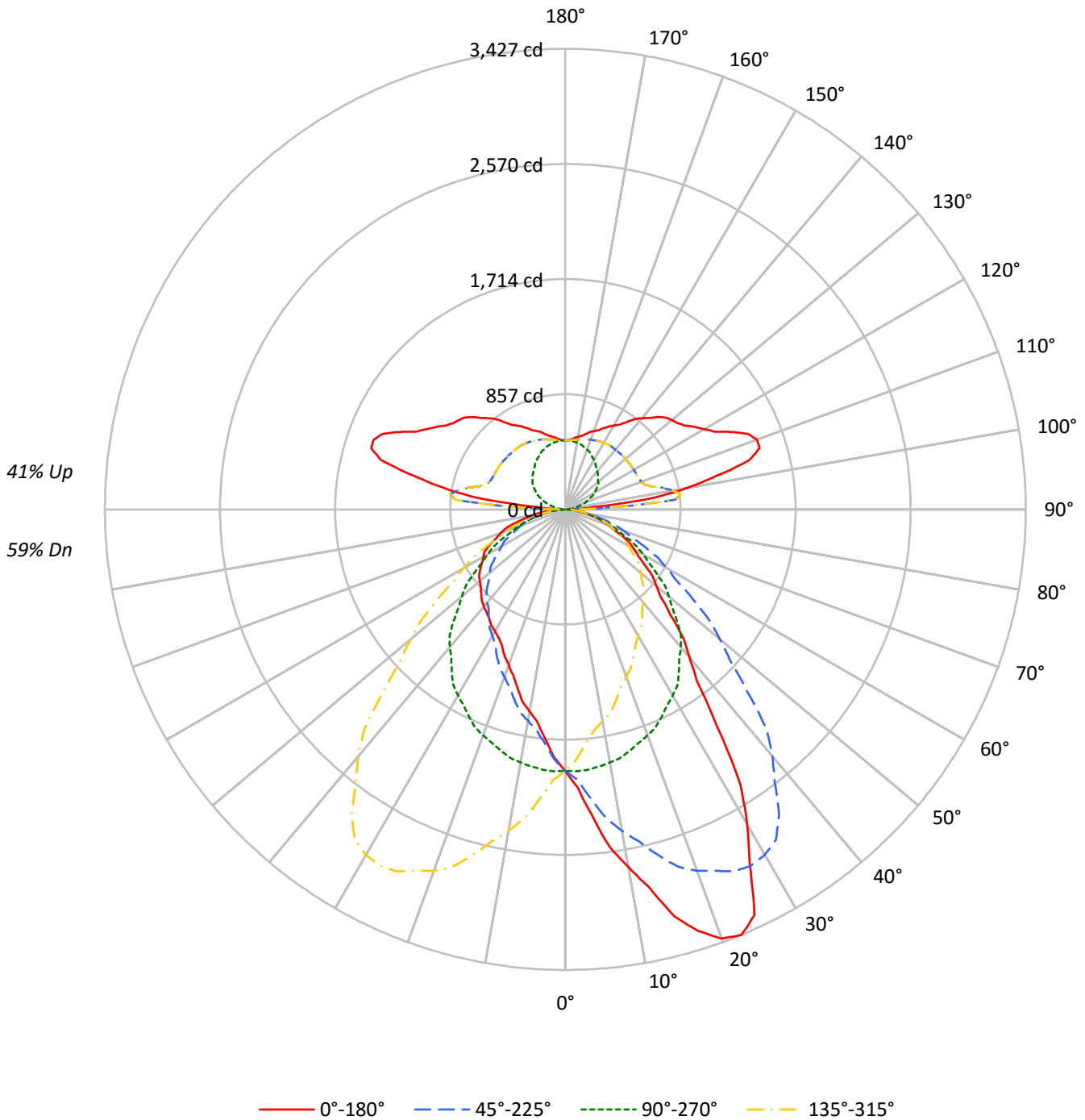
Input Watts (W): 66.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59				
1	100	96	92	88	93	90	86	83	78	75	73	67	65	64	57	56	55	50				
2	91	84	78	73	85	79	73	69	69	65	61	59	56	54	51	49	47	42				
3	84	74	67	61	78	69	63	58	61	56	52	53	49	46	45	42	40	36				
4	77	66	58	52	71	62	55	49	54	49	44	47	43	39	41	37	35	31				
5	70	59	51	45	66	55	48	43	49	43	38	42	38	34	37	33	30	27				
6	65	53	45	39	60	50	42	37	44	38	34	38	34	30	33	30	27	24				
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	31	27	24	22				
8	56	44	36	30	52	41	34	29	36	31	27	32	27	24	28	24	22	19				
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	17				
10	49	37	29	24	46	35	28	24	31	25	22	27	23	20	24	20	18	16				

**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	2.1
10°-20°	584.5	6.4
20°-30°	926.8	10.2
30°-40°	1031.4	11.3
40°-50°	938.9	10.3
50°-60°	767.2	8.4
60°-70°	547.7	6.0
70°-80°	301.6	3.3
80°-90°	85.2	0.9
90°-100°	370.6	4.1
100°-110°	771.4	8.5
110°-120°	690.9	7.6
120°-130°	581.2	6.4
130°-140°	484.6	5.3
140°-150°	370.2	4.1
150°-160°	260.2	2.9
160°-170°	153.1	1.7
170°-180°	49.8	0.5
0°-30°	1700.9	18.7
0°-40°	2732.3	30.0
0°-60°	4438.4	48.7
0°-90°	5372.9	59.0
90°-120°	1833.0	20.1
90°-150°	3269.0	35.9
90°-180°	3732.0	41.0
0°-180°	9105.0	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	59
90°	21	1	21	1	21	19
95°	246	33	246	33	246	382
105°	1418	118	1418	118	1418	1402
115°	1362	208	1362	208	1362	1352
125°	1087	289	1087	289	1087	988
135°	972	344	972	344	972	750
145°	794	396	794	396	794	503
155°	664	451	664	451	664	310
165°	580	491	580	491	580	166
175°	522	512	522	512	522	51
180°	513	513	513	513	513	



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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°	18.4	20.4	20.6	21.0	22.1	22.7	23.2	22.3	24.7	25.5	27.8
90°	21.2	21.2	22.2	21.2	20.2	20.2	19.2	18.2	17.2	18.2	16.2
92.5°	77.7	77.7	81.1	86.5	98.4	118.6	149.1	198.0	266.4	319.8	279.8
95°	246.0	259.1	277.2	308.5	357.9	455.7	590.8	747.0	844.9	821.6	620.1
97.5°	657.5	678.5	708.7	769.4	841.8	947.1	1045.6	1103.8	1061.4	865.4	580.3
100°	924.5	932.5	962.8	1024.3	1112.0	1186.6	1236.0	1215.9	1068.6	810.5	526.2
102.5°	1156.8	1163.3	1195.1	1239.6	1293.4	1324.5	1310.2	1210.2	1008.1	742.0	490.0
105°	1418.5	1424.5	1438.7	1446.7	1444.7	1403.3	1303.5	1129.1	898.3	661.4	458.7
107.5°	1515.7	1513.1	1503.0	1480.0	1430.2	1340.3	1199.7	1014.0	809.5	616.2	453.0
110°	1517.3	1508.2	1490.1	1447.7	1376.1	1265.3	1119.0	944.6	765.2	600.9	454.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1469.7	1455.0	1429.6	1378.4	1297.1	1186.2	1048.0	893.8	740.2	593.6	459.5
115°	1362.0	1353.9	1321.7	1261.2	1181.5	1084.8	966.8	842.8	716.8	589.8	468.8
117.5°	1252.9	1246.7	1214.1	1163.3	1095.3	1013.2	920.5	817.8	706.3	588.8	478.7
120°	1191.6	1180.5	1154.4	1109.9	1052.5	981.0	900.3	806.5	700.6	588.8	485.9
122.5°	1143.3	1132.2	1109.9	1072.1	1023.5	960.8	887.4	796.9	694.2	587.9	493.2
125°	1086.8	1080.8	1061.6	1032.4	992.0	936.5	867.0	780.3	683.6	586.7	504.1
127.5°	1053.7	1047.6	1031.6	1005.5	965.0	912.4	843.0	760.1	669.2	584.5	512.7
130°	1034.4	1028.3	1012.2	986.9	945.6	892.2	823.6	744.1	660.4	583.7	519.2
132.5°	1012.6	1006.5	991.2	962.8	922.3	868.8	801.9	727.1	652.3	582.9	524.8
135°	971.9	965.8	949.7	921.5	881.1	830.7	769.2	703.7	640.2	581.7	533.3
137.5°	921.5	914.2	900.9	873.0	835.4	789.8	738.0	682.6	629.7	581.5	538.4
140°	885.1	877.1	863.0	840.8	805.5	763.2	717.8	670.4	624.1	580.7	542.4
142.5°	846.5	840.8	828.3	807.7	776.5	739.8	700.8	659.1	619.2	580.7	545.6
145°	793.5	788.4	778.3	761.1	736.0	707.7	677.5	643.2	611.0	578.7	547.4
147.5°	746.4	744.7	737.0	722.3	703.7	681.6	657.3	630.1	603.5	575.0	548.5
150°	719.8	718.8	712.8	699.6	683.6	665.4	645.2	622.1	597.8	572.6	548.5
152.5°	695.6	694.6	690.9	680.3	666.6	651.7	633.1	613.2	591.4	568.6	546.8
155°	664.4	664.4	661.4	653.3	643.2	631.1	616.0	599.9	581.7	562.6	544.4
157.5°	636.9	636.9	635.1	629.0	621.5	611.8	599.1	585.5	571.8	556.3	541.8
160°	620.1	620.1	619.0	613.0	606.9	598.8	587.7	576.6	564.6	551.5	539.4
162.5°	603.9	604.7	603.7	597.6	593.2	585.9	577.2	567.7	558.2	546.6	536.9
165°	579.7	580.7	581.7	577.6	573.6	568.6	561.6	555.5	547.4	539.4	532.3
167.5°	560.6	561.4	561.6	559.0	556.9	553.9	548.3	543.6	537.8	532.1	527.5
170°	548.5	548.5	549.5	548.5	546.4	543.4	539.4	536.3	531.3	527.3	524.2
172.5°	536.3	538.0	539.0	538.0	536.7	534.5	532.1	529.9	525.6	522.4	521.0
175°	522.2	524.2	526.2	524.2	524.2	524.2	522.2	521.2	519.2	517.2	517.2
177.5°	513.9	515.5	517.2	516.3	517.2	516.3	516.3	515.5	514.7	513.9	513.9
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



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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°	27.4	28.0	26.2	23.5	21.4	19.3	18.0	17.0	18.0	19.3	20.1
90°	14.1	14.1	8.1	8.1	7.1	6.1	3.0	1.0	3.0	6.1	7.1
92.5°	203.7	125.4	74.2	53.2	38.5	26.3	16.8	11.5	16.8	26.3	38.5
95°	379.1	213.7	126.0	83.7	59.5	46.4	36.3	33.2	36.3	46.4	59.5
97.5°	340.7	204.3	136.7	101.2	80.5	68.4	59.7	59.7	59.7	68.4	80.5
100°	320.6	206.7	147.2	114.9	95.7	83.7	76.6	76.6	76.6	83.7	95.7
102.5°	315.0	214.7	160.9	130.3	111.9	100.6	94.3	92.7	94.3	100.6	111.9
105°	317.6	233.9	185.5	156.2	138.1	126.0	121.0	118.0	121.0	126.0	138.1
107.5°	332.4	256.3	211.9	183.1	165.7	152.8	147.8	145.8	147.8	152.8	165.7
110°	343.8	273.2	228.8	201.7	183.5	171.4	166.3	164.3	166.3	171.4	183.5





TEST NUMBER: P332699-840

CATALOG NUMBER: SA4XXDIP-C1195D1035U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	355.9	289.3	246.6	219.3	201.3	190.0	184.1	182.1	184.1	190.0	201.3
115°	375.1	314.6	274.2	247.0	227.8	217.7	210.7	207.7	210.7	217.7	227.8
117.5°	394.6	338.9	300.6	272.4	254.5	243.4	237.1	234.3	237.1	243.4	254.5
120°	408.3	355.9	317.6	289.3	272.2	261.2	254.1	252.1	254.1	261.2	272.2
122.5°	421.2	372.0	333.7	306.3	287.5	277.2	270.1	268.2	270.1	277.2	287.5
125°	440.6	394.2	357.9	329.6	310.5	299.4	293.4	289.3	293.4	299.4	310.5
127.5°	457.3	414.8	379.7	351.2	331.2	318.6	311.3	308.1	311.3	318.6	331.2
130°	467.8	428.5	394.2	365.0	345.8	330.6	322.7	318.6	322.7	330.6	345.8
132.5°	478.3	439.8	405.5	377.9	357.1	342.7	332.2	329.0	332.2	342.7	357.1
135°	492.0	455.7	422.4	396.2	375.1	357.9	347.8	343.8	347.8	357.9	375.1
137.5°	501.7	467.8	436.8	411.7	389.7	373.4	362.3	358.5	362.3	373.4	389.7
140°	508.1	475.8	445.7	421.4	400.2	383.1	372.0	369.0	372.0	383.1	400.2
142.5°	512.9	483.1	453.6	430.3	409.9	393.5	383.3	380.3	383.3	393.5	409.9
145°	518.2	491.0	464.7	442.6	423.4	409.3	399.2	396.2	399.2	409.3	423.4
147.5°	522.8	499.1	474.4	454.4	438.6	424.0	415.2	414.1	415.2	424.0	438.6
150°	525.2	503.1	480.9	461.7	446.7	434.5	426.5	425.5	426.5	434.5	446.7
152.5°	526.8	506.3	486.6	469.0	455.4	444.2	436.2	436.0	436.2	444.2	455.4
155°	528.3	511.1	494.0	478.9	467.8	457.7	451.6	450.6	451.6	457.7	467.8
157.5°	528.3	514.5	500.1	488.2	478.5	470.6	464.9	464.9	464.9	470.6	478.5
160°	528.3	516.1	504.1	493.0	484.9	477.9	473.8	473.8	473.8	477.9	484.9
162.5°	528.3	517.8	506.5	497.9	490.6	484.3	481.1	481.9	481.1	484.3	490.6
165°	526.2	518.2	509.1	503.1	498.1	493.0	491.0	491.0	491.0	493.0	498.1
167.5°	523.8	518.0	511.3	506.8	503.9	500.1	499.1	500.1	499.1	500.1	503.9
170°	522.2	517.2	512.1	509.1	507.2	504.1	503.1	504.1	503.1	504.1	507.2
172.5°	520.6	516.3	512.9	510.7	509.5	507.3	507.2	508.1	507.2	507.3	509.5
175°	518.2	515.1	513.1	513.1	512.1	511.1	511.1	512.1	511.1	511.1	512.1
177.5°	515.5	513.9	513.1	513.1	513.1	512.3	513.1	513.9	513.1	512.3	513.1
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



TEST NUMBER: P332699-840

CATALOG NUMBER: SA4XXDIP-C1195D1035U840-4F0-1E-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°	22.2	22.2	26.1	27.4	29.7	33.3	34.4	41.7	44.4	47.9	53.7
90°	8.1	8.1	14.1	14.1	16.2	18.2	17.2	18.2	19.2	20.2	20.2
92.5°	53.2	74.2	125.4	203.7	279.8	319.8	266.4	198.0	149.1	118.6	98.4
95°	83.7	126.0	213.7	379.1	620.1	821.6	844.9	747.0	590.8	455.7	357.9
97.5°	101.2	136.7	204.3	340.7	580.3	865.4	1061.4	1103.8	1045.6	947.1	841.8
100°	114.9	147.2	206.7	320.6	526.2	810.5	1068.6	1215.9	1236.0	1186.6	1112.0
102.5°	130.3	160.9	214.7	315.0	490.0	742.0	1008.1	1210.2	1310.2	1324.5	1293.4
105°	156.2	185.5	233.9	317.6	458.7	661.4	898.3	1129.1	1303.5	1403.3	1444.7
107.5°	183.1	211.9	256.3	332.4	453.0	616.2	809.5	1014.0	1199.7	1340.3	1430.2
110°	201.7	228.8	273.2	343.8	454.6	600.9	765.2	944.6	1119.0	1265.3	1376.1



TEST NUMBER: P332699-840

CATALOG NUMBER: SA4XXDIP-C1195D1035U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	219.3	246.6	289.3	355.9	459.5	593.6	740.2	893.8	1048.0	1186.2	1297.1
115°	247.0	274.2	314.6	375.1	468.8	589.8	716.8	842.8	966.8	1084.8	1181.5
117.5°	272.4	300.6	338.9	394.6	478.7	588.8	706.3	817.8	920.5	1013.2	1095.3
120°	289.3	317.6	355.9	408.3	485.9	588.8	700.6	806.5	900.3	981.0	1052.5
122.5°	306.3	333.7	372.0	421.2	493.2	587.9	694.2	796.9	887.4	960.8	1023.5
125°	329.6	357.9	394.2	440.6	504.1	586.7	683.6	780.3	867.0	936.5	992.0
127.5°	351.2	379.7	414.8	457.3	512.7	584.5	669.2	760.1	843.0	912.4	965.0
130°	365.0	394.2	428.5	467.8	519.2	583.7	660.4	744.1	823.6	892.2	945.6
132.5°	377.9	405.5	439.8	478.3	524.8	582.9	652.3	727.1	801.9	868.8	922.3
135°	396.2	422.4	455.7	492.0	533.3	581.7	640.2	703.7	769.2	830.7	881.1
137.5°	411.7	436.8	467.8	501.7	538.4	581.5	629.7	682.6	738.0	789.8	835.4
140°	421.4	445.7	475.8	508.1	542.4	580.7	624.1	670.4	717.8	763.2	805.5
142.5°	430.3	453.6	483.1	512.9	545.6	580.7	619.2	659.1	700.8	739.8	776.5
145°	442.6	464.7	491.0	518.2	547.4	578.7	611.0	643.2	677.5	707.7	736.0
147.5°	454.4	474.4	499.1	522.8	548.5	575.0	603.5	630.1	657.3	681.6	703.7
150°	461.7	480.9	503.1	525.2	548.5	572.6	597.8	622.1	645.2	665.4	683.6
152.5°	469.0	486.6	506.3	526.8	546.8	568.6	591.4	613.2	633.1	651.7	666.6
155°	478.9	494.0	511.1	528.3	544.4	562.6	581.7	599.9	616.0	631.1	643.2
157.5°	488.2	500.1	514.5	528.3	541.8	556.3	571.8	585.5	599.1	611.8	621.5
160°	493.0	504.1	516.1	528.3	539.4	551.5	564.6	576.6	587.7	598.8	606.9
162.5°	497.9	506.5	517.8	528.3	536.9	546.6	558.2	567.7	577.2	585.9	593.2
165°	503.1	509.1	518.2	526.2	532.3	539.4	547.4	555.5	561.6	568.6	573.6
167.5°	506.8	511.3	518.0	523.8	527.5	532.1	537.8	543.6	548.3	553.9	556.9
170°	509.1	512.1	517.2	522.2	524.2	527.3	531.3	536.3	539.4	543.4	546.4
172.5°	510.7	512.9	516.3	520.6	521.0	522.4	525.6	529.9	532.1	534.5	536.7
175°	513.1	513.1	515.1	518.2	517.2	517.2	519.2	521.2	522.2	524.2	524.2
177.5°	513.1	513.1	513.9	515.5	513.9	513.9	514.7	515.5	516.3	516.3	517.2
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



TEST NUMBER: P332699-840

CATALOG NUMBER: SA4XXDIP-C1195D1035U840-4F0-1E-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°	55.8	56.7	58.4	59.7	58.4	56.7	55.8	53.7	47.9	44.4	41.7
90°	21.2	22.2	21.2	21.2	21.2	22.2	21.2	20.2	20.2	19.2	18.2
92.5°	86.5	81.1	77.7	77.7	77.7	81.1	86.5	98.4	118.6	149.1	198.0
95°	308.5	277.2	259.1	246.0	259.1	277.2	308.5	357.9	455.7	590.8	747.0
97.5°	769.4	708.7	678.5	657.5	678.5	708.7	769.4	841.8	947.1	1045.6	1103.8
100°	1024.3	962.8	932.5	924.5	932.5	962.8	1024.3	1112.0	1186.6	1236.0	1215.9
102.5°	1239.6	1195.1	1163.3	1156.8	1163.3	1195.1	1239.6	1293.4	1324.5	1310.2	1210.2
105°	1446.7	1438.7	1424.5	1418.5	1424.5	1438.7	1446.7	1444.7	1403.3	1303.5	1129.1
107.5°	1480.0	1503.0	1513.1	1515.7	1513.1	1503.0	1480.0	1430.2	1340.3	1199.7	1014.0
110°	1447.7	1490.1	1508.2	1517.3	1508.2	1490.1	1447.7	1376.1	1265.3	1119.0	944.6



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1378.4	1429.6	1455.0	1469.7	1455.0	1429.6	1378.4	1297.1	1186.2	1048.0	893.8
115°	1261.2	1321.7	1353.9	1362.0	1353.9	1321.7	1261.2	1181.5	1084.8	966.8	842.8
117.5°	1163.3	1214.1	1246.7	1252.9	1246.7	1214.1	1163.3	1095.3	1013.2	920.5	817.8
120°	1109.9	1154.4	1180.5	1191.6	1180.5	1154.4	1109.9	1052.5	981.0	900.3	806.5
122.5°	1072.1	1109.9	1132.2	1143.3	1132.2	1109.9	1072.1	1023.5	960.8	887.4	796.9
125°	1032.4	1061.6	1080.8	1086.8	1080.8	1061.6	1032.4	992.0	936.5	867.0	780.3
127.5°	1005.5	1031.6	1047.6	1053.7	1047.6	1031.6	1005.5	965.0	912.4	843.0	760.1
130°	986.9	1012.2	1028.3	1034.4	1028.3	1012.2	986.9	945.6	892.2	823.6	744.1
132.5°	962.8	991.2	1006.5	1012.6	1006.5	991.2	962.8	922.3	868.8	801.9	727.1
135°	921.5	949.7	965.8	971.9	965.8	949.7	921.5	881.1	830.7	769.2	703.7
137.5°	873.0	900.9	914.2	921.5	914.2	900.9	873.0	835.4	789.8	738.0	682.6
140°	840.8	863.0	877.1	885.1	877.1	863.0	840.8	805.5	763.2	717.8	670.4
142.5°	807.7	828.3	840.8	846.5	840.8	828.3	807.7	776.5	739.8	700.8	659.1
145°	761.1	778.3	788.4	793.5	788.4	778.3	761.1	736.0	707.7	677.5	643.2
147.5°	722.3	737.0	744.7	746.4	744.7	737.0	722.3	703.7	681.6	657.3	630.1
150°	699.6	712.8	718.8	719.8	718.8	712.8	699.6	683.6	665.4	645.2	622.1
152.5°	680.3	690.9	694.6	695.6	694.6	690.9	680.3	666.6	651.7	633.1	613.2
155°	653.3	661.4	664.4	664.4	664.4	661.4	653.3	643.2	631.1	616.0	599.9
157.5°	629.0	635.1	636.9	636.9	636.9	635.1	629.0	621.5	611.8	599.1	585.5
160°	613.0	619.0	620.1	620.1	620.1	619.0	613.0	606.9	598.8	587.7	576.6
162.5°	597.6	603.7	604.7	603.9	604.7	603.7	597.6	593.2	585.9	577.2	567.7
165°	577.6	581.7	580.7	579.7	580.7	581.7	577.6	573.6	568.6	561.6	555.5
167.5°	559.0	561.6	561.4	560.6	561.4	561.6	559.0	556.9	553.9	548.3	543.6
170°	548.5	549.5	548.5	548.5	548.5	549.5	548.5	546.4	543.4	539.4	536.3
172.5°	538.0	539.0	538.0	536.3	538.0	539.0	538.0	536.7	534.5	532.1	529.9
175°	524.2	526.2	524.2	522.2	524.2	526.2	524.2	524.2	524.2	522.2	521.2
177.5°	516.3	517.2	515.5	513.9	515.5	517.2	516.3	517.2	516.3	516.3	515.5
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



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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°	34.4	33.3	29.7	27.4	26.1	22.2	22.2	20.1	19.3	18.0	17.0
90°	17.2	18.2	16.2	14.1	14.1	8.1	8.1	7.1	6.1	3.0	1.0
92.5°	266.4	319.8	279.8	203.7	125.4	74.2	53.2	38.5	26.3	16.8	11.5
95°	844.9	821.6	620.1	379.1	213.7	126.0	83.7	59.5	46.4	36.3	33.2
97.5°	1061.4	865.4	580.3	340.7	204.3	136.7	101.2	80.5	68.4	59.7	59.7
100°	1068.6	810.5	526.2	320.6	206.7	147.2	114.9	95.7	83.7	76.6	76.6
102.5°	1008.1	742.0	490.0	315.0	214.7	160.9	130.3	111.9	100.6	94.3	92.7
105°	898.3	661.4	458.7	317.6	233.9	185.5	156.2	138.1	126.0	121.0	118.0
107.5°	809.5	616.2	453.0	332.4	256.3	211.9	183.1	165.7	152.8	147.8	145.8
110°	765.2	600.9	454.6	343.8	273.2	228.8	201.7	183.5	171.4	166.3	164.3



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	740.2	593.6	459.5	355.9	289.3	246.6	219.3	201.3	190.0	184.1	182.1
115°	716.8	589.8	468.8	375.1	314.6	274.2	247.0	227.8	217.7	210.7	207.7
117.5°	706.3	588.8	478.7	394.6	338.9	300.6	272.4	254.5	243.4	237.1	234.3
120°	700.6	588.8	485.9	408.3	355.9	317.6	289.3	272.2	261.2	254.1	252.1
122.5°	694.2	587.9	493.2	421.2	372.0	333.7	306.3	287.5	277.2	270.1	268.2
125°	683.6	586.7	504.1	440.6	394.2	357.9	329.6	310.5	299.4	293.4	289.3
127.5°	669.2	584.5	512.7	457.3	414.8	379.7	351.2	331.2	318.6	311.3	308.1
130°	660.4	583.7	519.2	467.8	428.5	394.2	365.0	345.8	330.6	322.7	318.6
132.5°	652.3	582.9	524.8	478.3	439.8	405.5	377.9	357.1	342.7	332.2	329.0
135°	640.2	581.7	533.3	492.0	455.7	422.4	396.2	375.1	357.9	347.8	343.8
137.5°	629.7	581.5	538.4	501.7	467.8	436.8	411.7	389.7	373.4	362.3	358.5
140°	624.1	580.7	542.4	508.1	475.8	445.7	421.4	400.2	383.1	372.0	369.0
142.5°	619.2	580.7	545.6	512.9	483.1	453.6	430.3	409.9	393.5	383.3	380.3
145°	611.0	578.7	547.4	518.2	491.0	464.7	442.6	423.4	409.3	399.2	396.2
147.5°	603.5	575.0	548.5	522.8	499.1	474.4	454.4	438.6	424.0	415.2	414.1
150°	597.8	572.6	548.5	525.2	503.1	480.9	461.7	446.7	434.5	426.5	425.5
152.5°	591.4	568.6	546.8	526.8	506.3	486.6	469.0	455.4	444.2	436.2	436.0
155°	581.7	562.6	544.4	528.3	511.1	494.0	478.9	467.8	457.7	451.6	450.6
157.5°	571.8	556.3	541.8	528.3	514.5	500.1	488.2	478.5	470.6	464.9	464.9
160°	564.6	551.5	539.4	528.3	516.1	504.1	493.0	484.9	477.9	473.8	473.8
162.5°	558.2	546.6	536.9	528.3	517.8	506.5	497.9	490.6	484.3	481.1	481.9
165°	547.4	539.4	532.3	526.2	518.2	509.1	503.1	498.1	493.0	491.0	491.0
167.5°	537.8	532.1	527.5	523.8	518.0	511.3	506.8	503.9	500.1	499.1	500.1
170°	531.3	527.3	524.2	522.2	517.2	512.1	509.1	507.2	504.1	503.1	504.1
172.5°	525.6	522.4	521.0	520.6	516.3	512.9	510.7	509.5	507.3	507.2	508.1
175°	519.2	517.2	517.2	518.2	515.1	513.1	513.1	512.1	511.1	511.1	512.1
177.5°	514.7	513.9	513.9	515.5	513.9	513.1	513.1	513.1	512.3	513.1	513.9
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1





TEST NUMBER: P332699-840

CATALOG NUMBER: SA4XXDIP-C1195D1035U840-4F0-1E-UDD-A4

**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°	18.0	19.3	21.4	23.5	26.2	28.0	27.4	27.8	25.5	24.7	22.3
90°	3.0	6.1	7.1	8.1	8.1	14.1	14.1	16.2	18.2	17.2	18.2
92.5°	16.8	26.3	38.5	53.2	74.2	125.4	203.7	279.8	319.8	266.4	198.0
95°	36.3	46.4	59.5	83.7	126.0	213.7	379.1	620.1	821.6	844.9	747.0
97.5°	59.7	68.4	80.5	101.2	136.7	204.3	340.7	580.3	865.4	1061.4	1103.8
100°	76.6	83.7	95.7	114.9	147.2	206.7	320.6	526.2	810.5	1068.6	1215.9
102.5°	94.3	100.6	111.9	130.3	160.9	214.7	315.0	490.0	742.0	1008.1	1210.2
105°	121.0	126.0	138.1	156.2	185.5	233.9	317.6	458.7	661.4	898.3	1129.1
107.5°	147.8	152.8	165.7	183.1	211.9	256.3	332.4	453.0	616.2	809.5	1014.0
110°	166.3	171.4	183.5	201.7	228.8	273.2	343.8	454.6	600.9	765.2	944.6





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	184.1	190.0	201.3	219.3	246.6	289.3	355.9	459.5	593.6	740.2	893.8
115°	210.7	217.7	227.8	247.0	274.2	314.6	375.1	468.8	589.8	716.8	842.8
117.5°	237.1	243.4	254.5	272.4	300.6	338.9	394.6	478.7	588.8	706.3	817.8
120°	254.1	261.2	272.2	289.3	317.6	355.9	408.3	485.9	588.8	700.6	806.5
122.5°	270.1	277.2	287.5	306.3	333.7	372.0	421.2	493.2	587.9	694.2	796.9
125°	293.4	299.4	310.5	329.6	357.9	394.2	440.6	504.1	586.7	683.6	780.3
127.5°	311.3	318.6	331.2	351.2	379.7	414.8	457.3	512.7	584.5	669.2	760.1
130°	322.7	330.6	345.8	365.0	394.2	428.5	467.8	519.2	583.7	660.4	744.1
132.5°	332.2	342.7	357.1	377.9	405.5	439.8	478.3	524.8	582.9	652.3	727.1
135°	347.8	357.9	375.1	396.2	422.4	455.7	492.0	533.3	581.7	640.2	703.7
137.5°	362.3	373.4	389.7	411.7	436.8	467.8	501.7	538.4	581.5	629.7	682.6
140°	372.0	383.1	400.2	421.4	445.7	475.8	508.1	542.4	580.7	624.1	670.4
142.5°	383.3	393.5	409.9	430.3	453.6	483.1	512.9	545.6	580.7	619.2	659.1
145°	399.2	409.3	423.4	442.6	464.7	491.0	518.2	547.4	578.7	611.0	643.2
147.5°	415.2	424.0	438.6	454.4	474.4	499.1	522.8	548.5	575.0	603.5	630.1
150°	426.5	434.5	446.7	461.7	480.9	503.1	525.2	548.5	572.6	597.8	622.1
152.5°	436.2	444.2	455.4	469.0	486.6	506.3	526.8	546.8	568.6	591.4	613.2
155°	451.6	457.7	467.8	478.9	494.0	511.1	528.3	544.4	562.6	581.7	599.9
157.5°	464.9	470.6	478.5	488.2	500.1	514.5	528.3	541.8	556.3	571.8	585.5
160°	473.8	477.9	484.9	493.0	504.1	516.1	528.3	539.4	551.5	564.6	576.6
162.5°	481.1	484.3	490.6	497.9	506.5	517.8	528.3	536.9	546.6	558.2	567.7
165°	491.0	493.0	498.1	503.1	509.1	518.2	526.2	532.3	539.4	547.4	555.5
167.5°	499.1	500.1	503.9	506.8	511.3	518.0	523.8	527.5	532.1	537.8	543.6
170°	503.1	504.1	507.2	509.1	512.1	517.2	522.2	524.2	527.3	531.3	536.3
172.5°	507.2	507.3	509.5	510.7	512.9	516.3	520.6	521.0	522.4	525.6	529.9
175°	511.1	511.1	512.1	513.1	513.1	515.1	518.2	517.2	517.2	519.2	521.2
177.5°	513.1	512.3	513.1	513.1	513.1	513.9	515.5	513.9	513.9	514.7	515.5
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



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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°	23.2	22.7	22.1	21.0	20.6	20.4	18.4
90°	19.2	20.2	20.2	21.2	22.2	21.2	21.2
92.5°	149.1	118.6	98.4	86.5	81.1	77.7	77.7
95°	590.8	455.7	357.9	308.5	277.2	259.1	246.0
97.5°	1045.6	947.1	841.8	769.4	708.7	678.5	657.5
100°	1236.0	1186.6	1112.0	1024.3	962.8	932.5	924.5
102.5°	1310.2	1324.5	1293.4	1239.6	1195.1	1163.3	1156.8
105°	1303.5	1403.3	1444.7	1446.7	1438.7	1424.5	1418.5
107.5°	1199.7	1340.3	1430.2	1480.0	1503.0	1513.1	1515.7
110°	1119.0	1265.3	1376.1	1447.7	1490.1	1508.2	1517.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1048.0	1186.2	1297.1	1378.4	1429.6	1455.0	1469.7
115°	966.8	1084.8	1181.5	1261.2	1321.7	1353.9	1362.0
117.5°	920.5	1013.2	1095.3	1163.3	1214.1	1246.7	1252.9
120°	900.3	981.0	1052.5	1109.9	1154.4	1180.5	1191.6
122.5°	887.4	960.8	1023.5	1072.1	1109.9	1132.2	1143.3
125°	867.0	936.5	992.0	1032.4	1061.6	1080.8	1086.8
127.5°	843.0	912.4	965.0	1005.5	1031.6	1047.6	1053.7
130°	823.6	892.2	945.6	986.9	1012.2	1028.3	1034.4
132.5°	801.9	868.8	922.3	962.8	991.2	1006.5	1012.6
135°	769.2	830.7	881.1	921.5	949.7	965.8	971.9
137.5°	738.0	789.8	835.4	873.0	900.9	914.2	921.5
140°	717.8	763.2	805.5	840.8	863.0	877.1	885.1
142.5°	700.8	739.8	776.5	807.7	828.3	840.8	846.5
145°	677.5	707.7	736.0	761.1	778.3	788.4	793.5
147.5°	657.3	681.6	703.7	722.3	737.0	744.7	746.4
150°	645.2	665.4	683.6	699.6	712.8	718.8	719.8
152.5°	633.1	651.7	666.6	680.3	690.9	694.6	695.6
155°	616.0	631.1	643.2	653.3	661.4	664.4	664.4
157.5°	599.1	611.8	621.5	629.0	635.1	636.9	636.9
160°	587.7	598.8	606.9	613.0	619.0	620.1	620.1
162.5°	577.2	585.9	593.2	597.6	603.7	604.7	603.9
165°	561.6	568.6	573.6	577.6	581.7	580.7	579.7
167.5°	548.3	553.9	556.9	559.0	561.6	561.4	560.6
170°	539.4	543.4	546.4	548.5	549.5	548.5	548.5
172.5°	532.1	534.5	536.7	538.0	539.0	538.0	536.3
175°	522.2	524.2	524.2	524.2	526.2	524.2	522.2
177.5°	516.3	516.3	517.2	516.3	517.2	515.5	513.9
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1

(END OF REPORT)