

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: P331761

Luminaire Tested: **SA2XXRDIP-C1005D1080U835-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331761
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C1005D1080U835-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1080 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

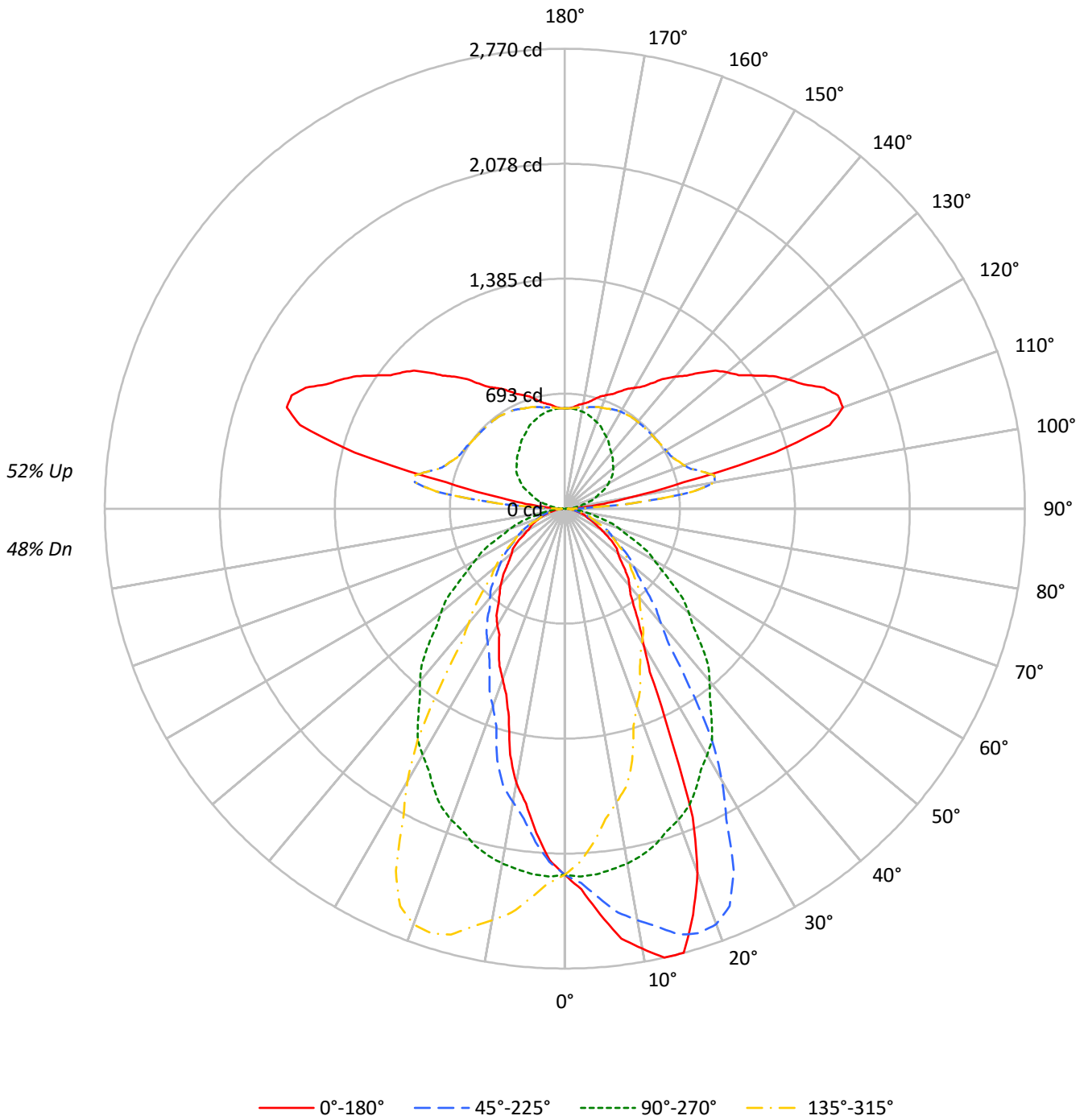
Lumens per Lamp: N/A
Luminaire Lumens: 8020.4 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48				
1	98	94	90	87	90	87	84	81	73	71	69	60	59	57	49	48	47	42				
2	90	83	77	72	82	77	72	68	65	61	58	54	51	49	44	42	41	36				
3	82	74	67	61	76	68	62	57	58	53	50	48	45	43	40	37	36	31				
4	76	66	58	53	70	61	54	49	52	47	43	44	40	37	36	33	31	28				
5	70	59	51	46	64	55	48	43	47	42	38	40	36	33	33	30	28	25				
6	65	53	46	40	60	50	43	38	43	37	34	36	32	29	30	27	25	22				
7	60	48	41	36	55	45	38	34	39	34	30	33	29	26	28	25	23	20				
8	56	44	37	32	52	41	35	30	36	31	27	31	27	24	26	23	21	18				
9	52	41	33	29	48	38	32	27	33	28	24	28	24	22	24	21	19	17				
10	49	37	30	26	45	35	29	25	31	26	22	26	22	20	22	19	17	15				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	35608	35608	35608	35608
5°	39768	35832	31770	35832
10°	44124	35580	27539	35580
15°	46292	35059	21698	35059
20°	40132	34287	18777	34287
25°	26320	33228	16764	33228
30°	17715	31946	15172	31946
35°	14349	30328	13685	30328
40°	12760	28572	12663	28572
45°	11549	26510	11303	26510
50°	10510	24465	10472	24465
55°	9880	22196	9751	22196
60°	8263	20118	8167	20118
65°	6968	18269	7904	18269
70°	6439	16315	7454	16315
75°	6026	14198	6881	14198
80°	5560	11688	6127	11688
85°	5113	9226	5391	9226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.1	2.6
10°-20°	582.5	7.3
20°-30°	750.7	9.4
30°-40°	713.4	8.9
40°-50°	611.1	7.6
50°-60°	465.4	5.8
60°-70°	294.2	3.7
70°-80°	146.9	1.8
80°-90°	43.7	0.5
90°-100°	241.5	3.0
100°-110°	819.6	10.2
110°-120°	870.7	10.9
120°-130°	716.8	8.9
130°-140°	575.6	7.2
140°-150°	435.0	5.4
150°-160°	305.7	3.8
160°-170°	180.0	2.2
170°-180°	58.6	0.7
0°-30°	1542.3	19.2
0°-40°	2255.7	28.1
0°-60°	3332.1	41.5
0°-90°	3816.9	47.6
90°-120°	1931.9	24.1
90°-150°	3659.3	45.6
90°-180°	4204.0	52.4
0°-180°	8020.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2205	2205	2205	2205	2205	
5°	2454	2211	1960	2211	2454	242
15°	2769	2097	1298	2097	2769	747
25°	1477	1865	941	1865	1477	701
35°	728	1539	694	1539	728	466
45°	506	1161	495	1161	506	391
55°	351	788	346	788	351	308
65°	182	478	207	478	182	186
75°	97	228	110	228	97	102
85°	28	50	29	50	28	31
90°	38	1	38	1	38	22
95°	132	41	132	41	132	172
105°	1309	142	1309	142	1309	1267
115°	1723	250	1723	250	1723	1687
125°	1398	348	1398	348	1398	1263
135°	1158	409	1158	409	1158	900
145°	925	467	925	467	925	587
155°	777	531	777	531	777	363
165°	682	578	682	578	682	195
175°	614	603	614	603	614	60
180°	604	604	604	604	604	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2294.9	2296.8	2298.6	2294.3	2294.3	2290.6	2282.7	2276.5	2259.4	2256.9	2256.9
5°	2453.7	2452.2	2455.2	2445.3	2431.5	2428.4	2413.9	2394.7	2374.8	2352.6	2348.0
7.5°	2611.6	2609.3	2603.1	2601.5	2590.9	2567.7	2544.3	2519.3	2486.2	2453.9	2437.6
10°	2691.3	2716.6	2701.2	2674.4	2679.8	2643.8	2624.6	2591.7	2564.1	2515.8	2505.1
12.5°	2769.7	2779.7	2774.8	2759.6	2752.7	2727.7	2701.8	2673.2	2622.3	2578.9	2541.2
15°	2769.4	2784.0	2787.8	2783.2	2787.1	2785.5	2771.7	2748.0	2703.5	2656.0	2614.6
17.5°	2565.0	2575.1	2600.2	2617.2	2638.7	2684.1	2706.4	2715.2	2708.6	2681.5	2652.3
20°	2335.7	2318.8	2389.3	2425.4	2456.0	2532.6	2598.5	2623.8	2664.4	2663.7	2656.0
22.5°	2010.8	2014.8	2081.6	2124.4	2213.9	2290.5	2365.6	2460.8	2539.4	2591.3	2621.7
25°	1477.4	1506.6	1573.2	1631.5	1731.1	1873.6	2003.1	2153.3	2295.1	2407.0	2513.5
27.5°	1109.6	1111.8	1164.6	1218.4	1277.6	1394.4	1557.4	1736.8	1938.9	2105.7	2297.5
30°	950.2	945.6	967.8	1000.8	1051.4	1141.8	1264.4	1440.7	1642.2	1893.5	2117.3
32.5°	837.4	837.7	854.4	878.8	920.8	981.8	1065.8	1208.9	1399.4	1646.5	1908.9
35°	728.0	727.2	739.5	757.1	774.7	813.8	871.3	946.4	1077.4	1308.1	1576.3
37.5°	649.5	652.9	658.9	669.9	689.4	711.1	745.6	796.0	889.4	1025.8	1251.2
40°	605.4	606.9	615.3	624.5	636.0	652.9	681.2	721.9	790.1	898.9	1063.6
42.5°	564.9	566.5	572.4	581.0	590.1	606.9	630.4	665.5	720.8	805.7	941.6
45°	505.8	505.8	511.1	515.0	524.9	540.2	559.4	588.5	626.8	689.7	780.1
47.5°	450.3	450.4	454.0	460.6	466.8	478.8	497.6	521.4	549.3	597.9	675.1
50°	418.4	419.2	421.5	426.8	430.7	441.4	456.0	476.6	505.8	543.3	607.7
52.5°	392.7	392.2	395.1	397.4	400.0	407.7	418.6	436.8	462.8	495.5	548.8
55°	351.0	347.9	352.5	356.3	358.6	361.7	367.8	379.3	401.5	429.1	469.0
57.5°	298.9	297.6	300.9	304.4	311.6	319.9	325.1	332.4	343.9	363.7	403.2
60°	255.9	255.9	262.8	265.1	273.6	284.3	295.0	301.2	312.7	325.7	354.8
62.5°	217.9	218.6	221.8	224.1	228.8	242.0	257.0	270.5	281.4	293.8	313.1
65°	182.4	183.9	183.9	185.4	188.5	191.6	197.7	208.4	227.6	245.2	259.8
67.5°	154.8	155.3	155.7	157.2	158.0	161.4	163.8	168.6	173.0	189.7	207.8
70°	136.4	138.7	137.9	139.5	140.2	141.8	144.8	147.1	154.0	157.9	168.6
72.5°	119.2	120.9	120.8	121.7	123.7	124.0	126.4	128.7	133.2	136.4	142.2
75°	96.6	95.8	96.6	98.1	98.9	99.6	99.6	102.7	105.0	108.0	111.9
77.5°	74.5	75.3	75.1	75.3	75.4	76.8	76.6	78.0	80.3	81.8	83.7
80°	59.8	60.5	59.8	60.5	61.3	62.1	61.3	62.1	64.4	65.9	65.9
82.5°	46.3	46.4	46.9	47.1	47.2	47.4	48.4	48.6	50.3	50.0	50.6
85°	27.6	26.8	26.8	26.8	27.6	28.4	27.6	27.6	28.4	28.4	28.4
87.5°	17.5	18.1	18.1	18.1	18.1	17.9	17.4	18.5	18.1	18.9	18.1
90°	38.3	38.3	38.3	38.3	38.3	37.2	34.9	37.2	38.3	39.5	38.3
92.5°	64.4	66.2	65.3	69.0	69.9	77.1	86.9	101.3	127.6	151.0	148.9
95°	132.4	131.3	134.8	144.0	159.1	184.7	233.5	304.4	398.5	455.4	403.1
97.5°	260.7	270.4	287.4	316.0	371.5	455.4	581.1	710.2	815.5	777.4	585.5
100°	415.9	436.8	470.5	520.4	616.8	757.4	916.6	1060.6	1085.0	917.7	631.9
102.5°	731.9	760.2	802.3	887.5	992.3	1141.2	1257.6	1290.2	1185.4	922.4	614.3
105°	1309.2	1325.5	1375.4	1447.4	1519.5	1557.8	1542.7	1411.4	1169.8	860.8	579.7
107.5°	1672.3	1693.9	1703.9	1707.9	1698.8	1642.6	1521.8	1324.1	1067.8	794.8	562.5
110°	1782.0	1783.2	1772.7	1750.6	1700.7	1605.4	1456.7	1248.8	1003.7	763.2	558.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1780.1	1773.9	1754.1	1717.2	1647.7	1538.5	1379.6	1180.0	959.1	742.8	559.7
115°	1722.8	1712.3	1682.1	1628.7	1546.2	1426.5	1274.4	1095.5	903.8	720.2	564.6
117.5°	1620.3	1611.5	1579.6	1523.2	1439.1	1326.9	1188.9	1031.8	868.9	709.3	572.9
120°	1554.3	1542.7	1509.0	1454.4	1373.1	1267.4	1144.2	1000.2	850.3	702.8	578.5
122.5°	1485.5	1475.8	1445.8	1392.1	1319.2	1223.7	1107.1	975.1	834.5	699.1	585.0
125°	1397.5	1388.2	1359.2	1315.0	1247.6	1160.5	1058.3	938.6	812.0	692.4	594.8
127.5°	1320.4	1312.9	1287.8	1246.5	1187.7	1107.3	1010.9	902.6	791.1	688.4	604.8
130°	1276.7	1267.4	1244.2	1204.7	1147.7	1071.1	979.3	879.4	777.2	686.5	612.2
132.5°	1231.1	1222.8	1201.4	1161.9	1105.9	1033.9	949.6	857.1	766.0	685.6	619.6
135°	1158.2	1153.5	1132.6	1094.3	1044.3	979.3	902.6	825.9	750.4	684.2	628.5
137.5°	1086.6	1079.7	1061.3	1028.3	982.8	926.1	865.2	801.1	739.5	684.0	636.4
140°	1037.4	1030.4	1013.0	982.8	945.6	894.5	841.1	785.3	733.0	683.1	640.1
142.5°	988.1	986.7	971.2	943.7	908.4	865.7	819.7	772.3	726.5	683.1	642.9
145°	924.7	921.2	909.6	889.8	862.0	828.3	792.3	753.9	717.9	680.7	645.9
147.5°	871.5	869.4	861.5	845.7	822.7	798.1	770.0	739.8	709.1	676.6	646.8
150°	839.9	838.7	831.8	817.8	800.4	779.5	755.1	729.5	701.6	673.8	645.9
152.5°	812.9	812.7	807.6	795.5	781.8	763.7	743.0	719.3	695.1	669.1	644.0
155°	777.2	779.5	774.8	766.7	753.9	741.1	723.7	705.1	683.1	661.0	641.2
157.5°	746.7	746.7	744.6	737.9	728.8	718.8	704.2	688.6	671.7	652.6	635.9
160°	727.2	727.2	726.0	720.2	712.1	704.0	691.2	678.4	663.3	647.1	633.1
162.5°	708.6	709.5	708.4	704.4	696.3	690.0	679.1	668.2	655.9	642.4	630.3
165°	681.9	683.1	683.1	678.4	673.8	669.1	661.0	652.9	643.6	633.1	625.0
167.5°	657.3	658.7	658.9	656.3	654.3	650.1	644.5	638.2	631.5	625.0	619.6
170°	642.4	644.7	645.9	642.4	641.2	638.9	634.3	630.8	625.0	620.3	616.8
172.5°	630.3	631.7	632.9	631.3	630.1	628.7	625.0	622.4	618.5	614.8	613.1
175°	614.5	616.8	618.0	616.8	616.8	615.7	614.5	613.4	609.9	608.7	607.6
177.5°	605.0	606.9	607.8	607.8	607.8	607.8	606.9	606.9	605.0	604.1	605.0
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2258.2	2253.2	2249.0	2237.9	2232.4	2220.1	2218.3	2217.7	2201.8	2186.4	2182.1
5°	2335.7	2323.4	2305.1	2283.6	2261.4	2238.4	2223.1	2210.8	2180.1	2151.0	2134.2
7.5°	2413.9	2387.5	2355.8	2315.2	2281.3	2243.3	2215.1	2189.8	2146.3	2104.6	2076.5
10°	2472.1	2429.2	2387.0	2331.1	2287.4	2244.5	2204.7	2170.2	2121.1	2066.0	2026.9
12.5°	2508.3	2461.1	2403.0	2348.3	2291.7	2237.2	2183.8	2139.5	2081.9	2024.9	1978.5
15°	2557.2	2506.6	2436.1	2357.9	2285.1	2213.9	2152.6	2097.4	2022.3	1954.1	1897.4
17.5°	2597.2	2527.6	2451.9	2361.5	2277.2	2186.6	2107.7	2037.2	1953.6	1871.3	1804.5
20°	2610.0	2541.1	2453.7	2363.3	2263.7	2157.2	2072.1	1995.5	1905.8	1816.1	1739.5
22.5°	2602.1	2548.4	2451.3	2343.1	2241.0	2129.6	2033.5	1944.6	1845.1	1753.6	1664.7
25°	2548.0	2529.6	2437.6	2319.6	2203.1	2073.6	1962.5	1865.2	1751.8	1653.7	1557.1
27.5°	2421.8	2461.5	2404.5	2278.8	2149.3	2010.5	1885.6	1774.8	1657.1	1546.7	1450.5
30°	2300.5	2391.6	2367.1	2250.6	2105.8	1969.4	1829.2	1713.5	1587.8	1474.4	1379.4
32.5°	2134.3	2285.0	2308.9	2211.4	2061.7	1911.8	1764.8	1649.7	1518.5	1399.0	1306.4
35°	1869.8	2095.1	2198.5	2136.5	1986.3	1824.6	1672.8	1538.7	1406.9	1288.9	1197.0
37.5°	1554.2	1861.1	2033.5	2037.9	1900.0	1731.9	1566.6	1433.5	1298.6	1182.7	1083.3
40°	1349.5	1682.0	1906.6	1956.4	1839.9	1658.3	1491.2	1355.6	1223.8	1110.4	996.2
42.5°	1165.6	1496.9	1772.9	1859.5	1767.0	1586.6	1418.9	1277.1	1149.0	1041.7	925.1
45°	942.6	1232.2	1536.4	1691.2	1639.9	1472.8	1295.8	1161.0	1040.6	947.9	836.0
47.5°	795.1	999.3	1293.7	1503.0	1502.1	1349.6	1175.5	1046.3	934.7	847.8	757.3
50°	711.1	888.9	1138.0	1375.5	1395.4	1267.5	1101.9	974.0	869.8	778.6	705.8
52.5°	635.7	782.2	1006.2	1233.9	1290.6	1179.8	1019.2	901.0	799.9	716.0	653.7
55°	537.2	650.6	820.7	1033.7	1119.6	1041.4	898.9	788.5	706.5	636.0	582.4
57.5°	454.4	539.5	676.0	847.5	947.5	898.3	780.7	691.1	620.9	557.1	514.8
60°	402.3	472.0	587.8	731.1	841.4	806.9	706.5	623.0	563.2	508.1	468.2
62.5°	353.3	413.2	512.4	628.7	729.8	715.6	633.6	563.5	511.1	460.9	427.1
65°	284.3	328.0	405.4	496.6	577.8	584.7	525.7	478.2	431.4	391.6	361.7
67.5°	226.4	254.9	309.4	386.2	447.1	468.8	432.8	396.5	359.4	328.6	302.7
70°	190.8	213.8	253.6	315.7	371.7	394.6	374.0	345.6	313.4	288.1	265.9
72.5°	154.6	177.0	206.4	252.0	299.9	324.8	317.6	297.2	271.1	250.1	229.1
75°	116.5	123.4	143.3	174.0	211.5	233.0	238.3	227.6	206.9	190.8	178.5
77.5°	86.1	90.3	99.8	115.9	140.4	159.5	167.4	166.1	151.9	142.5	131.0
80°	69.0	71.3	75.9	82.8	101.2	120.3	125.7	125.7	115.7	111.9	100.4
82.5°	52.4	54.1	56.9	60.7	69.3	86.0	92.0	93.2	86.9	81.8	72.8
85°	29.9	29.1	30.7	33.0	34.5	39.1	48.3	49.8	48.3	42.1	39.8
87.5°	16.7	15.7	14.5	13.2	13.4	13.5	15.6	18.0	16.3	15.3	14.6
90°	31.4	23.2	17.4	13.9	11.6	9.3	4.6	1.2	4.6	9.3	11.6
92.5°	115.9	79.0	52.7	41.8	33.9	28.8	20.4	14.2	20.4	28.8	33.9
95°	268.3	167.3	113.8	86.0	67.4	56.9	45.3	40.7	45.3	56.9	67.4
97.5°	361.5	220.7	153.6	122.0	100.6	84.8	72.5	66.2	72.5	84.8	100.6
100°	381.0	239.3	177.7	145.2	122.0	103.4	92.9	89.4	92.9	103.4	122.0
102.5°	382.0	256.0	199.1	166.6	142.4	123.8	113.4	110.8	113.4	123.8	142.4
105°	388.0	284.6	230.0	197.5	171.9	154.5	146.4	141.7	146.4	154.5	171.9
107.5°	404.0	313.9	260.9	228.2	202.8	186.8	178.9	175.2	178.9	186.8	202.8
110°	417.0	333.4	282.3	248.6	224.2	209.1	202.1	197.5	202.1	209.1	224.2



TEST NUMBER: P331761

CATALOG NUMBER: SA2XXRDIP-C1005D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	431.0	352.0	302.7	268.1	244.6	230.5	222.6	217.9	222.6	230.5	244.6
115°	451.9	381.0	331.1	299.7	276.5	262.5	255.6	249.8	255.6	262.5	276.5
117.5°	474.2	407.7	361.5	329.0	306.7	294.4	287.4	282.8	287.4	294.4	306.7
120°	489.1	426.3	381.0	348.5	325.3	314.8	307.8	303.2	307.8	314.8	325.3
122.5°	502.1	444.0	401.5	368.0	344.8	333.4	326.4	322.7	326.4	333.4	344.8
125°	522.8	470.5	428.7	396.1	372.9	359.0	352.0	348.5	352.0	359.0	372.9
127.5°	542.0	495.1	454.4	421.0	398.7	383.4	373.6	368.9	373.6	383.4	398.7
130°	554.1	510.0	469.3	436.8	413.6	397.3	385.7	381.0	385.7	397.3	413.6
132.5°	566.2	523.0	484.2	451.7	427.5	410.3	397.8	392.2	397.8	410.3	427.5
135°	582.0	541.3	504.2	471.6	444.9	427.5	413.6	408.9	413.6	427.5	444.9
137.5°	594.1	556.2	519.5	489.3	462.8	444.2	430.3	424.7	430.3	444.2	462.8
140°	600.6	564.6	529.7	499.5	474.0	455.4	441.4	436.8	441.4	455.4	474.0
142.5°	606.2	571.1	537.2	508.8	484.2	465.6	452.6	448.9	452.6	465.6	484.2
145°	613.4	580.8	549.5	523.9	500.7	483.3	471.6	467.0	471.6	483.3	500.7
147.5°	617.3	588.7	559.2	536.5	517.2	501.1	490.0	486.5	490.0	501.1	517.2
150°	619.2	592.5	565.7	544.8	527.4	512.3	503.0	499.5	503.0	512.3	527.4
152.5°	620.1	596.2	572.2	553.2	536.7	523.4	514.2	512.5	514.2	523.4	536.7
155°	621.5	601.7	582.0	564.6	551.8	539.0	532.0	530.9	532.0	539.0	551.8
157.5°	621.5	605.7	589.0	574.3	564.1	553.0	547.4	546.2	547.4	553.0	564.1
160°	621.5	607.6	593.6	580.8	571.5	562.2	557.6	556.4	557.6	562.2	571.5
162.5°	620.6	608.5	596.4	586.4	578.0	570.6	566.0	566.7	566.0	570.6	578.0
165°	618.0	609.9	599.4	592.5	586.6	579.7	577.4	578.5	577.4	579.7	586.6
167.5°	616.4	609.6	602.0	597.6	593.4	589.0	586.9	588.3	586.9	589.0	593.4
170°	614.5	608.7	602.9	599.4	597.1	593.6	592.5	594.8	592.5	593.6	597.1
172.5°	611.7	607.8	603.8	601.3	599.9	596.4	597.1	598.5	597.1	596.4	599.9
175°	608.7	606.4	604.1	602.9	602.9	600.6	601.7	602.9	601.7	600.6	602.9
177.5°	606.9	605.0	604.1	604.1	604.1	602.2	603.1	605.0	603.1	602.2	604.1
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



TEST NUMBER: P331761

CATALOG NUMBER: SA2XXRDIP-C1005D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2174.2	2169.9	2161.9	2149.6	2142.3	2129.4	2120.8	2125.7	2127.0	2125.7	2124.5
5°	2115.8	2099.7	2077.5	2056.0	2036.1	2014.6	2002.4	1997.0	1986.3	1980.1	1977.1
7.5°	2045.1	2017.4	1986.0	1948.6	1916.8	1883.6	1866.6	1858.1	1836.2	1824.3	1813.8
10°	1992.4	1948.7	1917.3	1868.3	1838.4	1794.7	1764.8	1765.6	1735.7	1718.8	1706.6
12.5°	1934.2	1886.2	1833.9	1789.8	1748.3	1713.2	1677.1	1662.6	1630.9	1614.6	1581.5
15°	1837.6	1781.7	1726.5	1666.7	1624.6	1570.2	1518.1	1454.5	1403.1	1358.7	1346.4
17.5°	1732.2	1662.9	1607.6	1537.4	1465.2	1373.7	1313.3	1276.4	1245.4	1222.0	1204.5
20°	1659.8	1589.3	1530.3	1424.6	1327.2	1265.2	1220.7	1192.4	1160.2	1134.9	1121.1
22.5°	1583.8	1510.2	1429.8	1311.8	1235.9	1186.1	1146.5	1113.9	1092.1	1072.4	1059.8
25°	1475.9	1395.4	1262.9	1181.6	1120.3	1068.2	1040.6	1020.7	997.7	970.9	958.7
27.5°	1361.9	1233.9	1138.7	1078.3	1019.8	985.9	961.1	931.4	910.8	898.7	886.0
30°	1276.7	1148.7	1074.4	1008.5	967.1	929.5	900.4	883.6	863.6	842.9	834.5
32.5°	1181.6	1079.4	1008.2	953.3	911.3	879.3	856.3	829.0	814.6	801.9	784.2
35°	1063.6	986.2	921.1	876.7	836.8	810.8	783.9	767.8	741.8	731.1	724.2
37.5°	963.7	896.6	848.0	801.1	769.5	740.7	724.3	698.7	687.4	672.5	658.0
40°	907.3	841.4	794.7	756.3	721.1	699.6	678.9	658.3	641.4	634.5	616.9
42.5°	849.7	796.0	749.3	707.3	683.7	661.0	634.8	619.6	602.2	591.0	580.1
45°	770.1	722.6	682.8	648.3	622.2	598.5	581.6	556.3	546.4	524.2	515.0
47.5°	700.3	656.1	618.1	585.3	559.9	544.4	519.7	499.9	484.0	470.4	458.6
50°	650.6	613.8	577.0	547.9	524.9	502.7	477.4	467.4	442.9	436.0	429.1
52.5°	605.2	570.3	536.6	508.1	485.1	463.5	441.2	428.2	411.7	404.8	399.7
55°	541.8	508.1	475.9	450.6	427.6	405.4	391.6	375.5	367.8	362.5	356.3
57.5°	478.0	447.7	423.0	397.4	374.3	356.6	340.7	331.0	323.1	316.0	308.7
60°	437.6	408.4	386.2	362.5	338.7	324.1	311.9	300.4	291.2	280.5	277.4
62.5°	394.6	369.2	348.8	325.7	305.0	291.7	280.0	269.1	258.1	242.5	238.2
65°	335.6	315.7	294.3	275.1	256.7	243.7	226.8	214.6	210.0	208.4	207.7
67.5°	282.3	263.5	245.1	225.4	208.7	196.6	188.1	186.2	183.0	182.1	179.9
70°	246.8	229.1	210.7	192.3	176.3	174.0	170.9	167.8	164.0	162.5	160.9
72.5°	214.9	196.6	178.2	163.5	156.6	153.7	150.7	147.6	145.0	143.5	142.5
75°	164.8	147.9	135.6	130.3	126.4	124.1	119.5	117.2	115.7	113.4	112.6
77.5°	118.6	109.1	103.5	100.1	96.1	93.6	91.0	88.7	87.1	86.6	85.4
80°	90.4	85.8	82.0	77.4	75.9	72.8	72.0	69.7	70.5	68.2	68.2
82.5°	70.2	64.4	61.2	59.0	57.5	55.0	54.3	53.2	53.3	51.6	51.6
85°	36.0	34.5	33.0	31.4	31.4	29.1	29.9	29.1	29.1	27.6	26.8
87.5°	14.4	14.5	14.5	16.1	17.5	17.1	16.9	16.0	15.6	16.0	15.6
90°	13.9	17.4	23.2	31.4	38.3	39.5	38.3	37.2	34.9	37.2	38.3
92.5°	41.8	52.7	79.0	115.9	148.9	151.0	127.6	101.3	86.9	77.1	69.9
95°	86.0	113.8	167.3	268.3	403.1	455.4	398.5	304.4	233.5	184.7	159.1
97.5°	122.0	153.6	220.7	361.5	585.5	777.4	815.5	710.2	581.1	455.4	371.5
100°	145.2	177.7	239.3	381.0	631.9	917.7	1085.0	1060.6	916.6	757.4	616.8
102.5°	166.6	199.1	256.0	382.0	614.3	922.4	1185.4	1290.2	1257.6	1141.2	992.3
105°	197.5	230.0	284.6	388.0	579.7	860.8	1169.8	1411.4	1542.7	1557.8	1519.5
107.5°	228.2	260.9	313.9	404.0	562.5	794.8	1067.8	1324.1	1521.8	1642.6	1698.8
110°	248.6	282.3	333.4	417.0	558.8	763.2	1003.7	1248.8	1456.7	1605.4	1700.7



TEST NUMBER: P331761

CATALOG NUMBER: SA2XXRDIP-C1005D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	268.1	302.7	352.0	431.0	559.7	742.8	959.1	1180.0	1379.6	1538.5	1647.7
115°	299.7	331.1	381.0	451.9	564.6	720.2	903.8	1095.5	1274.4	1426.5	1546.2
117.5°	329.0	361.5	407.7	474.2	572.9	709.3	868.9	1031.8	1188.9	1326.9	1439.1
120°	348.5	381.0	426.3	489.1	578.5	702.8	850.3	1000.2	1144.2	1267.4	1373.1
122.5°	368.0	401.5	444.0	502.1	585.0	699.1	834.5	975.1	1107.1	1223.7	1319.2
125°	396.1	428.7	470.5	522.8	594.8	692.4	812.0	938.6	1058.3	1160.5	1247.6
127.5°	421.0	454.4	495.1	542.0	604.8	688.4	791.1	902.6	1010.9	1107.3	1187.7
130°	436.8	469.3	510.0	554.1	612.2	686.5	777.2	879.4	979.3	1071.1	1147.7
132.5°	451.7	484.2	523.0	566.2	619.6	685.6	766.0	857.1	949.6	1033.9	1105.9
135°	471.6	504.2	541.3	582.0	628.5	684.2	750.4	825.9	902.6	979.3	1044.3
137.5°	489.3	519.5	556.2	594.1	636.4	684.0	739.5	801.1	865.2	926.1	982.8
140°	499.5	529.7	564.6	600.6	640.1	683.1	733.0	785.3	841.1	894.5	945.6
142.5°	508.8	537.2	571.1	606.2	642.9	683.1	726.5	772.3	819.7	865.7	908.4
145°	523.9	549.5	580.8	613.4	645.9	680.7	717.9	753.9	792.3	828.3	862.0
147.5°	536.5	559.2	588.7	617.3	646.8	676.6	709.1	739.8	770.0	798.1	822.7
150°	544.8	565.7	592.5	619.2	645.9	673.8	701.6	729.5	755.1	779.5	800.4
152.5°	553.2	572.2	596.2	620.1	644.0	669.1	695.1	719.3	743.0	763.7	781.8
155°	564.6	582.0	601.7	621.5	641.2	661.0	683.1	705.1	723.7	741.1	753.9
157.5°	574.3	589.0	605.7	621.5	635.9	652.6	671.7	688.6	704.2	718.8	728.8
160°	580.8	593.6	607.6	621.5	633.1	647.1	663.3	678.4	691.2	704.0	712.1
162.5°	586.4	596.4	608.5	620.6	630.3	642.4	655.9	668.2	679.1	690.0	696.3
165°	592.5	599.4	609.9	618.0	625.0	633.1	643.6	652.9	661.0	669.1	673.8
167.5°	597.6	602.0	609.6	616.4	619.6	625.0	631.5	638.2	644.5	650.1	654.3
170°	599.4	602.9	608.7	614.5	616.8	620.3	625.0	630.8	634.3	638.9	641.2
172.5°	601.3	603.8	607.8	611.7	613.1	614.8	618.5	622.4	625.0	628.7	630.1
175°	602.9	604.1	606.4	608.7	607.6	608.7	609.9	613.4	614.5	615.7	616.8
177.5°	604.1	604.1	605.0	606.9	605.0	604.1	605.0	606.9	606.9	607.8	607.8
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



TEST NUMBER: P331761

CATALOG NUMBER: SA2XXRDIP-C1005D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2117.8	2119.0	2117.2	2118.4	2117.2	2119.0	2117.8	2124.5	2125.7	2127.0	2125.7
5°	1973.2	1964.0	1962.5	1960.2	1962.5	1964.0	1973.2	1977.1	1980.1	1986.3	1997.0
7.5°	1800.7	1799.3	1795.5	1790.1	1795.5	1799.3	1800.7	1813.8	1824.3	1836.2	1858.1
10°	1689.7	1685.9	1685.1	1679.7	1685.1	1685.9	1689.7	1706.6	1718.8	1735.7	1765.6
12.5°	1559.7	1535.1	1532.5	1519.1	1532.5	1535.1	1559.7	1581.5	1614.6	1630.9	1662.6
15°	1328.0	1323.4	1308.1	1298.1	1308.1	1323.4	1328.0	1346.4	1358.7	1403.1	1454.5
17.5°	1195.6	1180.6	1175.8	1173.7	1175.8	1180.6	1195.6	1204.5	1222.0	1245.4	1276.4
20°	1110.4	1096.6	1094.3	1092.8	1094.3	1096.6	1110.4	1121.1	1134.9	1160.2	1192.4
22.5°	1051.5	1037.1	1031.1	1026.5	1031.1	1037.1	1051.5	1059.8	1072.4	1092.1	1113.9
25°	951.0	945.6	942.6	941.0	942.6	945.6	951.0	958.7	970.9	997.7	1020.7
27.5°	872.4	860.6	858.3	854.3	858.3	860.6	872.4	886.0	898.7	910.8	931.4
30°	827.6	823.8	818.4	813.8	818.4	823.8	827.6	834.5	842.9	863.6	883.6
32.5°	774.9	771.7	766.9	764.8	766.9	771.7	774.9	784.2	801.9	814.6	829.0
35°	716.5	705.8	701.2	694.3	701.2	705.8	716.5	724.2	731.1	741.8	767.8
37.5°	654.7	649.1	642.6	644.9	642.6	649.1	654.7	658.0	672.5	687.4	698.7
40°	606.9	603.1	601.6	600.8	601.6	603.1	606.9	616.9	634.5	641.4	658.3
42.5°	568.9	558.3	554.3	554.2	554.3	558.3	568.9	580.1	591.0	602.2	619.6
45°	511.1	501.2	494.3	495.0	494.3	501.2	511.1	515.0	524.2	546.4	556.3
47.5°	452.0	451.7	447.4	448.7	447.4	451.7	452.0	458.6	470.4	484.0	499.9
50°	423.8	419.2	416.1	416.9	416.1	419.2	423.8	429.1	436.0	442.9	467.4
52.5°	396.8	392.8	390.4	393.6	390.4	392.8	396.8	399.7	404.8	411.7	428.2
55°	352.5	347.9	347.1	346.4	347.1	347.9	352.5	356.3	362.5	367.8	375.5
57.5°	303.0	299.9	295.3	293.3	295.3	299.9	303.0	308.7	316.0	323.1	331.0
60°	267.4	261.3	253.6	252.9	253.6	261.3	267.4	277.4	280.5	291.2	300.4
62.5°	234.9	233.7	232.2	232.0	232.2	233.7	234.9	238.2	242.5	258.1	269.1
65°	206.1	205.4	206.1	206.9	206.1	205.4	206.1	207.7	208.4	210.0	214.6
67.5°	179.6	178.2	176.9	177.5	176.9	178.2	179.6	179.9	182.1	183.0	186.2
70°	159.4	158.6	157.9	157.9	157.9	158.6	159.4	160.9	162.5	164.0	167.8
72.5°	139.8	139.6	138.9	138.2	138.9	139.6	139.8	142.5	143.5	145.0	147.6
75°	111.9	110.3	110.3	110.3	110.3	110.3	111.9	112.6	113.4	115.7	117.2
77.5°	85.2	84.4	83.7	83.1	83.7	84.4	85.2	85.4	86.6	87.1	88.7
80°	67.4	66.7	65.9	65.9	65.9	66.7	67.4	68.2	68.2	70.5	69.7
82.5°	51.5	50.7	50.6	50.0	50.6	50.7	51.5	51.6	51.6	53.3	53.2
85°	27.6	28.4	27.6	29.1	27.6	28.4	27.6	26.8	27.6	29.1	29.1
87.5°	15.6	15.0	15.6	15.0	15.6	15.0	15.6	15.6	16.0	15.6	16.0
90°	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	37.2	34.9	37.2
92.5°	69.0	65.3	66.2	64.4	66.2	65.3	69.0	69.9	77.1	86.9	101.3
95°	144.0	134.8	131.3	132.4	131.3	134.8	144.0	159.1	184.7	233.5	304.4
97.5°	316.0	287.4	270.4	260.7	270.4	287.4	316.0	371.5	455.4	581.1	710.2
100°	520.4	470.5	436.8	415.9	436.8	470.5	520.4	616.8	757.4	916.6	1060.6
102.5°	887.5	802.3	760.2	731.9	760.2	802.3	887.5	992.3	1141.2	1257.6	1290.2
105°	1447.4	1375.4	1325.5	1309.2	1325.5	1375.4	1447.4	1519.5	1557.8	1542.7	1411.4
107.5°	1707.9	1703.9	1693.9	1672.3	1693.9	1703.9	1707.9	1698.8	1642.6	1521.8	1324.1
110°	1750.6	1772.7	1783.2	1782.0	1783.2	1772.7	1750.6	1700.7	1605.4	1456.7	1248.8



TEST NUMBER: P331761

CATALOG NUMBER: SA2XXRDIP-C1005D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1717.2	1754.1	1773.9	1780.1	1773.9	1754.1	1717.2	1647.7	1538.5	1379.6	1180.0
115°	1628.7	1682.1	1712.3	1722.8	1712.3	1682.1	1628.7	1546.2	1426.5	1274.4	1095.5
117.5°	1523.2	1579.6	1611.5	1620.3	1611.5	1579.6	1523.2	1439.1	1326.9	1188.9	1031.8
120°	1454.4	1509.0	1542.7	1554.3	1542.7	1509.0	1454.4	1373.1	1267.4	1144.2	1000.2
122.5°	1392.1	1445.8	1475.8	1485.5	1475.8	1445.8	1392.1	1319.2	1223.7	1107.1	975.1
125°	1315.0	1359.2	1388.2	1397.5	1388.2	1359.2	1315.0	1247.6	1160.5	1058.3	938.6
127.5°	1246.5	1287.8	1312.9	1320.4	1312.9	1287.8	1246.5	1187.7	1107.3	1010.9	902.6
130°	1204.7	1244.2	1267.4	1276.7	1267.4	1244.2	1204.7	1147.7	1071.1	979.3	879.4
132.5°	1161.9	1201.4	1222.8	1231.1	1222.8	1201.4	1161.9	1105.9	1033.9	949.6	857.1
135°	1094.3	1132.6	1153.5	1158.2	1153.5	1132.6	1094.3	1044.3	979.3	902.6	825.9
137.5°	1028.3	1061.3	1079.7	1086.6	1079.7	1061.3	1028.3	982.8	926.1	865.2	801.1
140°	982.8	1013.0	1030.4	1037.4	1030.4	1013.0	982.8	945.6	894.5	841.1	785.3
142.5°	943.7	971.2	986.7	988.1	986.7	971.2	943.7	908.4	865.7	819.7	772.3
145°	889.8	909.6	921.2	924.7	921.2	909.6	889.8	862.0	828.3	792.3	753.9
147.5°	845.7	861.5	869.4	871.5	869.4	861.5	845.7	822.7	798.1	770.0	739.8
150°	817.8	831.8	838.7	839.9	838.7	831.8	817.8	800.4	779.5	755.1	729.5
152.5°	795.5	807.6	812.7	812.9	812.7	807.6	795.5	781.8	763.7	743.0	719.3
155°	766.7	774.8	779.5	777.2	779.5	774.8	766.7	753.9	741.1	723.7	705.1
157.5°	737.9	744.6	746.7	746.7	746.7	744.6	737.9	728.8	718.8	704.2	688.6
160°	720.2	726.0	727.2	727.2	727.2	726.0	720.2	712.1	704.0	691.2	678.4
162.5°	704.4	708.4	709.5	708.6	709.5	708.4	704.4	696.3	690.0	679.1	668.2
165°	678.4	683.1	683.1	681.9	683.1	683.1	678.4	673.8	669.1	661.0	652.9
167.5°	656.3	658.9	658.7	657.3	658.7	658.9	656.3	654.3	650.1	644.5	638.2
170°	642.4	645.9	644.7	642.4	644.7	645.9	642.4	641.2	638.9	634.3	630.8
172.5°	631.3	632.9	631.7	630.3	631.7	632.9	631.3	630.1	628.7	625.0	622.4
175°	616.8	618.0	616.8	614.5	616.8	618.0	616.8	616.8	615.7	614.5	613.4
177.5°	607.8	607.8	606.9	605.0	606.9	607.8	607.8	607.8	607.8	606.9	606.9
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



TEST NUMBER: P331761
 CATALOG NUMBER: SA2XXRDIP-C1005D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2120.8	2129.4	2142.3	2149.6	2161.9	2169.9	2174.2	2182.1	2186.4	2201.8	2217.7
5°	2002.4	2014.6	2036.1	2056.0	2077.5	2099.7	2115.8	2134.2	2151.0	2180.1	2210.8
7.5°	1866.6	1883.6	1916.8	1948.6	1986.0	2017.4	2045.1	2076.5	2104.6	2146.3	2189.8
10°	1764.8	1794.7	1838.4	1868.3	1917.3	1948.7	1992.4	2026.9	2066.0	2121.1	2170.2
12.5°	1677.1	1713.2	1748.3	1789.8	1833.9	1886.2	1934.2	1978.5	2024.9	2081.9	2139.5
15°	1518.1	1570.2	1624.6	1666.7	1726.5	1781.7	1837.6	1897.4	1954.1	2022.3	2097.4
17.5°	1313.3	1373.7	1465.2	1537.4	1607.6	1662.9	1732.2	1804.5	1871.3	1953.6	2037.2
20°	1220.7	1265.2	1327.2	1424.6	1530.3	1589.3	1659.8	1739.5	1816.1	1905.8	1995.5
22.5°	1146.5	1186.1	1235.9	1311.8	1429.8	1510.2	1583.8	1664.7	1753.6	1845.1	1944.6
25°	1040.6	1068.2	1120.3	1181.6	1262.9	1395.4	1475.9	1557.1	1653.7	1751.8	1865.2
27.5°	961.1	985.9	1019.8	1078.3	1138.7	1233.9	1361.9	1450.5	1546.7	1657.1	1774.8
30°	900.4	929.5	967.1	1008.5	1074.4	1148.7	1276.7	1379.4	1474.4	1587.8	1713.5
32.5°	856.3	879.3	911.3	953.3	1008.2	1079.4	1181.6	1306.4	1399.0	1518.5	1649.7
35°	783.9	810.8	836.8	876.7	921.1	986.2	1063.6	1197.0	1288.9	1406.9	1538.7
37.5°	724.3	740.7	769.5	801.1	848.0	896.6	963.7	1083.3	1182.7	1298.6	1433.5
40°	678.9	699.6	721.1	756.3	794.7	841.4	907.3	996.2	1110.4	1223.8	1355.6
42.5°	634.8	661.0	683.7	707.3	749.3	796.0	849.7	925.1	1041.7	1149.0	1277.1
45°	581.6	598.5	622.2	648.3	682.8	722.6	770.1	836.0	947.9	1040.6	1161.0
47.5°	519.7	544.4	559.9	585.3	618.1	656.1	700.3	757.3	847.8	934.7	1046.3
50°	477.4	502.7	524.9	547.9	577.0	613.8	650.6	705.8	778.6	869.8	974.0
52.5°	441.2	463.5	485.1	508.1	536.6	570.3	605.2	653.7	716.0	799.9	901.0
55°	391.6	405.4	427.6	450.6	475.9	508.1	541.8	582.4	636.0	706.5	788.5
57.5°	340.7	356.6	374.3	397.4	423.0	447.7	478.0	514.8	557.1	620.9	691.1
60°	311.9	324.1	338.7	362.5	386.2	408.4	437.6	468.2	508.1	563.2	623.0
62.5°	280.0	291.7	305.0	325.7	348.8	369.2	394.6	427.1	460.9	511.1	563.5
65°	226.8	243.7	256.7	275.1	294.3	315.7	335.6	361.7	391.6	431.4	478.2
67.5°	188.1	196.6	208.7	225.4	245.1	263.5	282.3	302.7	328.6	359.4	396.5
70°	170.9	174.0	176.3	192.3	210.7	229.1	246.8	265.9	288.1	313.4	345.6
72.5°	150.7	153.7	156.6	163.5	178.2	196.6	214.9	229.1	250.1	271.1	297.2
75°	119.5	124.1	126.4	130.3	135.6	147.9	164.8	178.5	190.8	206.9	227.6
77.5°	91.0	93.6	96.1	100.1	103.5	109.1	118.6	131.0	142.5	151.9	166.1
80°	72.0	72.8	75.9	77.4	82.0	85.8	90.4	100.4	111.9	115.7	125.7
82.5°	54.3	55.0	57.5	59.0	61.2	64.4	70.2	72.8	81.8	86.9	93.2
85°	29.9	29.1	31.4	31.4	33.0	34.5	36.0	39.8	42.1	48.3	49.8
87.5°	16.9	17.1	17.5	16.1	14.5	14.5	14.4	14.6	15.3	16.3	18.0
90°	38.3	39.5	38.3	31.4	23.2	17.4	13.9	11.6	9.3	4.6	1.2
92.5°	127.6	151.0	148.9	115.9	79.0	52.7	41.8	33.9	28.8	20.4	14.2
95°	398.5	455.4	403.1	268.3	167.3	113.8	86.0	67.4	56.9	45.3	40.7
97.5°	815.5	777.4	585.5	361.5	220.7	153.6	122.0	100.6	84.8	72.5	66.2
100°	1085.0	917.7	631.9	381.0	239.3	177.7	145.2	122.0	103.4	92.9	89.4
102.5°	1185.4	922.4	614.3	382.0	256.0	199.1	166.6	142.4	123.8	113.4	110.8
105°	1169.8	860.8	579.7	388.0	284.6	230.0	197.5	171.9	154.5	146.4	141.7
107.5°	1067.8	794.8	562.5	404.0	313.9	260.9	228.2	202.8	186.8	178.9	175.2
110°	1003.7	763.2	558.8	417.0	333.4	282.3	248.6	224.2	209.1	202.1	197.5



TEST NUMBER: P331761

CATALOG NUMBER: SA2XXRDIP-C1005D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	959.1	742.8	559.7	431.0	352.0	302.7	268.1	244.6	230.5	222.6	217.9
115°	903.8	720.2	564.6	451.9	381.0	331.1	299.7	276.5	262.5	255.6	249.8
117.5°	868.9	709.3	572.9	474.2	407.7	361.5	329.0	306.7	294.4	287.4	282.8
120°	850.3	702.8	578.5	489.1	426.3	381.0	348.5	325.3	314.8	307.8	303.2
122.5°	834.5	699.1	585.0	502.1	444.0	401.5	368.0	344.8	333.4	326.4	322.7
125°	812.0	692.4	594.8	522.8	470.5	428.7	396.1	372.9	359.0	352.0	348.5
127.5°	791.1	688.4	604.8	542.0	495.1	454.4	421.0	398.7	383.4	373.6	368.9
130°	777.2	686.5	612.2	554.1	510.0	469.3	436.8	413.6	397.3	385.7	381.0
132.5°	766.0	685.6	619.6	566.2	523.0	484.2	451.7	427.5	410.3	397.8	392.2
135°	750.4	684.2	628.5	582.0	541.3	504.2	471.6	444.9	427.5	413.6	408.9
137.5°	739.5	684.0	636.4	594.1	556.2	519.5	489.3	462.8	444.2	430.3	424.7
140°	733.0	683.1	640.1	600.6	564.6	529.7	499.5	474.0	455.4	441.4	436.8
142.5°	726.5	683.1	642.9	606.2	571.1	537.2	508.8	484.2	465.6	452.6	448.9
145°	717.9	680.7	645.9	613.4	580.8	549.5	523.9	500.7	483.3	471.6	467.0
147.5°	709.1	676.6	646.8	617.3	588.7	559.2	536.5	517.2	501.1	490.0	486.5
150°	701.6	673.8	645.9	619.2	592.5	565.7	544.8	527.4	512.3	503.0	499.5
152.5°	695.1	669.1	644.0	620.1	596.2	572.2	553.2	536.7	523.4	514.2	512.5
155°	683.1	661.0	641.2	621.5	601.7	582.0	564.6	551.8	539.0	532.0	530.9
157.5°	671.7	652.6	635.9	621.5	605.7	589.0	574.3	564.1	553.0	547.4	546.2
160°	663.3	647.1	633.1	621.5	607.6	593.6	580.8	571.5	562.2	557.6	556.4
162.5°	655.9	642.4	630.3	620.6	608.5	596.4	586.4	578.0	570.6	566.0	566.7
165°	643.6	633.1	625.0	618.0	609.9	599.4	592.5	586.6	579.7	577.4	578.5
167.5°	631.5	625.0	619.6	616.4	609.6	602.0	597.6	593.4	589.0	586.9	588.3
170°	625.0	620.3	616.8	614.5	608.7	602.9	599.4	597.1	593.6	592.5	594.8
172.5°	618.5	614.8	613.1	611.7	607.8	603.8	601.3	599.9	596.4	597.1	598.5
175°	609.9	608.7	607.6	608.7	606.4	604.1	602.9	602.9	600.6	601.7	602.9
177.5°	605.0	604.1	605.0	606.9	605.0	604.1	604.1	604.1	602.2	603.1	605.0
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



TEST NUMBER: P331761

CATALOG NUMBER: SA2XXRDIP-C1005D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2218.3	2220.1	2232.4	2237.9	2249.0	2253.2	2258.2	2256.9	2256.9	2259.4	2276.5
5°	2223.1	2238.4	2261.4	2283.6	2305.1	2323.4	2335.7	2348.0	2352.6	2374.8	2394.7
7.5°	2215.1	2243.3	2281.3	2315.2	2355.8	2387.5	2413.9	2437.6	2453.9	2486.2	2519.3
10°	2204.7	2244.5	2287.4	2331.1	2387.0	2429.2	2472.1	2505.1	2515.8	2564.1	2591.7
12.5°	2183.8	2237.2	2291.7	2348.3	2403.0	2461.1	2508.3	2541.2	2578.9	2622.3	2673.2
15°	2152.6	2213.9	2285.1	2357.9	2436.1	2506.6	2557.2	2614.6	2656.0	2703.5	2748.0
17.5°	2107.7	2186.6	2277.2	2361.5	2451.9	2527.6	2597.2	2652.3	2681.5	2708.6	2715.2
20°	2072.1	2157.2	2263.7	2363.3	2453.7	2541.1	2610.0	2656.0	2663.7	2664.4	2623.8
22.5°	2033.5	2129.6	2241.0	2343.1	2451.3	2548.4	2602.1	2621.7	2591.3	2539.4	2460.8
25°	1962.5	2073.6	2203.1	2319.6	2437.6	2529.6	2548.0	2513.5	2407.0	2295.1	2153.3
27.5°	1885.6	2010.5	2149.3	2278.8	2404.5	2461.5	2421.8	2297.5	2105.7	1938.9	1736.8
30°	1829.2	1969.4	2105.8	2250.6	2367.1	2391.6	2300.5	2117.3	1893.5	1642.2	1440.7
32.5°	1764.8	1911.8	2061.7	2211.4	2308.9	2285.0	2134.3	1908.9	1646.5	1399.4	1208.9
35°	1672.8	1824.6	1986.3	2136.5	2198.5	2095.1	1869.8	1576.3	1308.1	1077.4	946.4
37.5°	1566.6	1731.9	1900.0	2037.9	2033.5	1861.1	1554.2	1251.2	1025.8	889.4	796.0
40°	1491.2	1658.3	1839.9	1956.4	1906.6	1682.0	1349.5	1063.6	898.9	790.1	721.9
42.5°	1418.9	1586.6	1767.0	1859.5	1772.9	1496.9	1165.6	941.6	805.7	720.8	665.5
45°	1295.8	1472.8	1639.9	1691.2	1536.4	1232.2	942.6	780.1	689.7	626.8	588.5
47.5°	1175.5	1349.6	1502.1	1503.0	1293.7	999.3	795.1	675.1	597.9	549.3	521.4
50°	1101.9	1267.5	1395.4	1375.5	1138.0	888.9	711.1	607.7	543.3	505.8	476.6
52.5°	1019.2	1179.8	1290.6	1233.9	1006.2	782.2	635.7	548.8	495.5	462.8	436.8
55°	898.9	1041.4	1119.6	1033.7	820.7	650.6	537.2	469.0	429.1	401.5	379.3
57.5°	780.7	898.3	947.5	847.5	676.0	539.5	454.4	403.2	363.7	343.9	332.4
60°	706.5	806.9	841.4	731.1	587.8	472.0	402.3	354.8	325.7	312.7	301.2
62.5°	633.6	715.6	729.8	628.7	512.4	413.2	353.3	313.1	293.8	281.4	270.5
65°	525.7	584.7	577.8	496.6	405.4	328.0	284.3	259.8	245.2	227.6	208.4
67.5°	432.8	468.8	447.1	386.2	309.4	254.9	226.4	207.8	189.7	173.0	168.6
70°	374.0	394.6	371.7	315.7	253.6	213.8	190.8	168.6	157.9	154.0	147.1
72.5°	317.6	324.8	299.9	252.0	206.4	177.0	154.6	142.2	136.4	133.2	128.7
75°	238.3	233.0	211.5	174.0	143.3	123.4	116.5	111.9	108.0	105.0	102.7
77.5°	167.4	159.5	140.4	115.9	99.8	90.3	86.1	83.7	81.8	80.3	78.0
80°	125.7	120.3	101.2	82.8	75.9	71.3	69.0	65.9	65.9	64.4	62.1
82.5°	92.0	86.0	69.3	60.7	56.9	54.1	52.4	50.6	50.0	50.3	48.6
85°	48.3	39.1	34.5	33.0	30.7	29.1	29.9	28.4	28.4	28.4	27.6
87.5°	15.6	13.5	13.4	13.2	14.5	15.7	16.7	18.1	18.9	18.1	18.5
90°	4.6	9.3	11.6	13.9	17.4	23.2	31.4	38.3	39.5	38.3	37.2
92.5°	20.4	28.8	33.9	41.8	52.7	79.0	115.9	148.9	151.0	127.6	101.3
95°	45.3	56.9	67.4	86.0	113.8	167.3	268.3	403.1	455.4	398.5	304.4
97.5°	72.5	84.8	100.6	122.0	153.6	220.7	361.5	585.5	777.4	815.5	710.2
100°	92.9	103.4	122.0	145.2	177.7	239.3	381.0	631.9	917.7	1085.0	1060.6
102.5°	113.4	123.8	142.4	166.6	199.1	256.0	382.0	614.3	922.4	1185.4	1290.2
105°	146.4	154.5	171.9	197.5	230.0	284.6	388.0	579.7	860.8	1169.8	1411.4
107.5°	178.9	186.8	202.8	228.2	260.9	313.9	404.0	562.5	794.8	1067.8	1324.1
110°	202.1	209.1	224.2	248.6	282.3	333.4	417.0	558.8	763.2	1003.7	1248.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	222.6	230.5	244.6	268.1	302.7	352.0	431.0	559.7	742.8	959.1	1180.0
115°	255.6	262.5	276.5	299.7	331.1	381.0	451.9	564.6	720.2	903.8	1095.5
117.5°	287.4	294.4	306.7	329.0	361.5	407.7	474.2	572.9	709.3	868.9	1031.8
120°	307.8	314.8	325.3	348.5	381.0	426.3	489.1	578.5	702.8	850.3	1000.2
122.5°	326.4	333.4	344.8	368.0	401.5	444.0	502.1	585.0	699.1	834.5	975.1
125°	352.0	359.0	372.9	396.1	428.7	470.5	522.8	594.8	692.4	812.0	938.6
127.5°	373.6	383.4	398.7	421.0	454.4	495.1	542.0	604.8	688.4	791.1	902.6
130°	385.7	397.3	413.6	436.8	469.3	510.0	554.1	612.2	686.5	777.2	879.4
132.5°	397.8	410.3	427.5	451.7	484.2	523.0	566.2	619.6	685.6	766.0	857.1
135°	413.6	427.5	444.9	471.6	504.2	541.3	582.0	628.5	684.2	750.4	825.9
137.5°	430.3	444.2	462.8	489.3	519.5	556.2	594.1	636.4	684.0	739.5	801.1
140°	441.4	455.4	474.0	499.5	529.7	564.6	600.6	640.1	683.1	733.0	785.3
142.5°	452.6	465.6	484.2	508.8	537.2	571.1	606.2	642.9	683.1	726.5	772.3
145°	471.6	483.3	500.7	523.9	549.5	580.8	613.4	645.9	680.7	717.9	753.9
147.5°	490.0	501.1	517.2	536.5	559.2	588.7	617.3	646.8	676.6	709.1	739.8
150°	503.0	512.3	527.4	544.8	565.7	592.5	619.2	645.9	673.8	701.6	729.5
152.5°	514.2	523.4	536.7	553.2	572.2	596.2	620.1	644.0	669.1	695.1	719.3
155°	532.0	539.0	551.8	564.6	582.0	601.7	621.5	641.2	661.0	683.1	705.1
157.5°	547.4	553.0	564.1	574.3	589.0	605.7	621.5	635.9	652.6	671.7	688.6
160°	557.6	562.2	571.5	580.8	593.6	607.6	621.5	633.1	647.1	663.3	678.4
162.5°	566.0	570.6	578.0	586.4	596.4	608.5	620.6	630.3	642.4	655.9	668.2
165°	577.4	579.7	586.6	592.5	599.4	609.9	618.0	625.0	633.1	643.6	652.9
167.5°	586.9	589.0	593.4	597.6	602.0	609.6	616.4	619.6	625.0	631.5	638.2
170°	592.5	593.6	597.1	599.4	602.9	608.7	614.5	616.8	620.3	625.0	630.8
172.5°	597.1	596.4	599.9	601.3	603.8	607.8	611.7	613.1	614.8	618.5	622.4
175°	601.7	600.6	602.9	602.9	604.1	606.4	608.7	607.6	608.7	609.9	613.4
177.5°	603.1	602.2	604.1	604.1	604.1	605.0	606.9	605.0	604.1	605.0	606.9
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2282.7	2290.6	2294.3	2294.3	2298.6	2296.8	2294.9
5°	2413.9	2428.4	2431.5	2445.3	2455.2	2452.2	2453.7
7.5°	2544.3	2567.7	2590.9	2601.5	2603.1	2609.3	2611.6
10°	2624.6	2643.8	2679.8	2674.4	2701.2	2716.6	2691.3
12.5°	2701.8	2727.7	2752.7	2759.6	2774.8	2779.7	2769.7
15°	2771.7	2785.5	2787.1	2783.2	2787.8	2784.0	2769.4
17.5°	2706.4	2684.1	2638.7	2617.2	2600.2	2575.1	2565.0
20°	2598.5	2532.6	2456.0	2425.4	2389.3	2318.8	2335.7
22.5°	2365.6	2290.5	2213.9	2124.4	2081.6	2014.8	2010.8
25°	2003.1	1873.6	1731.1	1631.5	1573.2	1506.6	1477.4
27.5°	1557.4	1394.4	1277.6	1218.4	1164.6	1111.8	1109.6
30°	1264.4	1141.8	1051.4	1000.8	967.8	945.6	950.2
32.5°	1065.8	981.8	920.8	878.8	854.4	837.7	837.4
35°	871.3	813.8	774.7	757.1	739.5	727.2	728.0
37.5°	745.6	711.1	689.4	669.9	658.9	652.9	649.5
40°	681.2	652.9	636.0	624.5	615.3	606.9	605.4
42.5°	630.4	606.9	590.1	581.0	572.4	566.5	564.9
45°	559.4	540.2	524.9	515.0	511.1	505.8	505.8
47.5°	497.6	478.8	466.8	460.6	454.0	450.4	450.3
50°	456.0	441.4	430.7	426.8	421.5	419.2	418.4
52.5°	418.6	407.7	400.0	397.4	395.1	392.2	392.7
55°	367.8	361.7	358.6	356.3	352.5	347.9	351.0
57.5°	325.1	319.9	311.6	304.4	300.9	297.6	298.9
60°	295.0	284.3	273.6	265.1	262.8	255.9	255.9
62.5°	257.0	242.0	228.8	224.1	221.8	218.6	217.9
65°	197.7	191.6	188.5	185.4	183.9	183.9	182.4
67.5°	163.8	161.4	158.0	157.2	155.7	155.3	154.8
70°	144.8	141.8	140.2	139.5	137.9	138.7	136.4
72.5°	126.4	124.0	123.7	121.7	120.8	120.9	119.2
75°	99.6	99.6	98.9	98.1	96.6	95.8	96.6
77.5°	76.6	76.8	75.4	75.3	75.1	75.3	74.5
80°	61.3	62.1	61.3	60.5	59.8	60.5	59.8
82.5°	48.4	47.4	47.2	47.1	46.9	46.4	46.3
85°	27.6	28.4	27.6	26.8	26.8	26.8	27.6
87.5°	17.4	17.9	18.1	18.1	18.1	18.1	17.5
90°	34.9	37.2	38.3	38.3	38.3	38.3	38.3
92.5°	86.9	77.1	69.9	69.0	65.3	66.2	64.4
95°	233.5	184.7	159.1	144.0	134.8	131.3	132.4
97.5°	581.1	455.4	371.5	316.0	287.4	270.4	260.7
100°	916.6	757.4	616.8	520.4	470.5	436.8	415.9
102.5°	1257.6	1141.2	992.3	887.5	802.3	760.2	731.9
105°	1542.7	1557.8	1519.5	1447.4	1375.4	1325.5	1309.2
107.5°	1521.8	1642.6	1698.8	1707.9	1703.9	1693.9	1672.3
110°	1456.7	1605.4	1700.7	1750.6	1772.7	1783.2	1782.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1379.6	1538.5	1647.7	1717.2	1754.1	1773.9	1780.1
115°	1274.4	1426.5	1546.2	1628.7	1682.1	1712.3	1722.8
117.5°	1188.9	1326.9	1439.1	1523.2	1579.6	1611.5	1620.3
120°	1144.2	1267.4	1373.1	1454.4	1509.0	1542.7	1554.3
122.5°	1107.1	1223.7	1319.2	1392.1	1445.8	1475.8	1485.5
125°	1058.3	1160.5	1247.6	1315.0	1359.2	1388.2	1397.5
127.5°	1010.9	1107.3	1187.7	1246.5	1287.8	1312.9	1320.4
130°	979.3	1071.1	1147.7	1204.7	1244.2	1267.4	1276.7
132.5°	949.6	1033.9	1105.9	1161.9	1201.4	1222.8	1231.1
135°	902.6	979.3	1044.3	1094.3	1132.6	1153.5	1158.2
137.5°	865.2	926.1	982.8	1028.3	1061.3	1079.7	1086.6
140°	841.1	894.5	945.6	982.8	1013.0	1030.4	1037.4
142.5°	819.7	865.7	908.4	943.7	971.2	986.7	988.1
145°	792.3	828.3	862.0	889.8	909.6	921.2	924.7
147.5°	770.0	798.1	822.7	845.7	861.5	869.4	871.5
150°	755.1	779.5	800.4	817.8	831.8	838.7	839.9
152.5°	743.0	763.7	781.8	795.5	807.6	812.7	812.9
155°	723.7	741.1	753.9	766.7	774.8	779.5	777.2
157.5°	704.2	718.8	728.8	737.9	744.6	746.7	746.7
160°	691.2	704.0	712.1	720.2	726.0	727.2	727.2
162.5°	679.1	690.0	696.3	704.4	708.4	709.5	708.6
165°	661.0	669.1	673.8	678.4	683.1	683.1	681.9
167.5°	644.5	650.1	654.3	656.3	658.9	658.7	657.3
170°	634.3	638.9	641.2	642.4	645.9	644.7	642.4
172.5°	625.0	628.7	630.1	631.3	632.9	631.7	630.3
175°	614.5	615.7	616.8	616.8	618.0	616.8	614.5
177.5°	606.9	607.8	607.8	607.8	607.8	606.9	605.0
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1

(END OF REPORT)