

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: P332681

Luminaire Tested: **SA4XXDIP-C1195D590U835-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332681
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-C1195D590U835-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

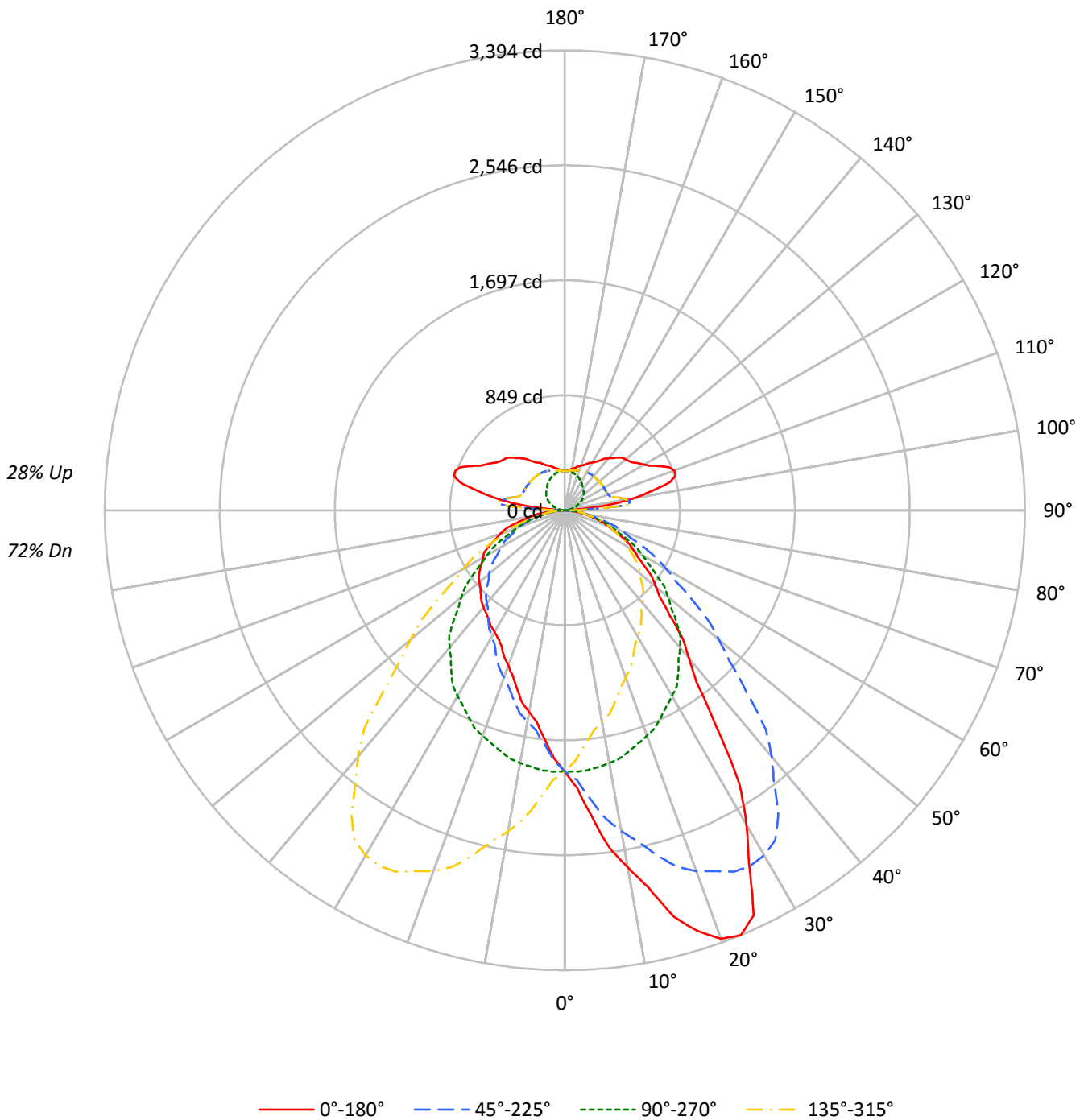
Lumens per Lamp: N/A
Luminaire Lumens: 7431.0 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 55.1
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



TEST NUMBER: P332681
CATALOG NUMBER: SA4XXDIP-C1195D590U835-4F0-1E-UDD-A4

Luminous Intensity Polar Plot





TEST NUMBER: P332681

CATALOG NUMBER: SA4XXDIP-C1195D590U835-4F0-1E-UDD-A4

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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	72	72	72	72	
1	103	99	95	91	97	94	90	87	84	82	79	76	74	72	68	66	65	61	61	61	61	
2	94	87	80	75	89	82	77	72	74	70	66	67	63	60	60	57	55	52	52	52	52	
3	86	76	69	63	81	73	66	61	66	60	56	59	55	52	53	50	47	44	44	44	44	
4	79	68	60	54	75	65	57	52	59	53	48	53	48	45	48	44	41	38	38	38	38	
5	73	61	53	46	69	58	50	45	53	47	42	48	43	39	43	39	36	33	33	33	33	
6	67	55	46	41	63	52	45	39	48	41	37	43	38	34	39	35	32	29	29	29	29	
7	62	50	42	36	59	48	40	35	43	37	33	40	34	30	36	32	28	26	26	26	26	
8	58	45	37	32	55	43	36	31	40	34	29	36	31	27	33	29	26	23	23	23	23	
9	54	41	34	29	51	40	33	28	37	31	26	34	28	25	31	26	23	21	21	21	21	
10	51	38	31	26	48	37	30	25	34	28	24	31	26	22	29	24	21	19	19	19	19	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15560	15560	15560	15560
5°	18323	15600	13768	15600
10°	21939	15531	12396	15531
15°	25957	15374	11384	15374
20°	28905	15214	10481	15214
25°	29372	14978	9857	14978
30°	24993	14752	9660	14752
35°	19215	14384	9662	14384
40°	14977	13951	9844	13951
45°	12488	13300	10009	13300
50°	10991	12504	10349	12504
55°	10069	11553	10766	11553
60°	9436	10700	11267	10700
65°	8785	9746	11683	9746
70°	8028	8802	11948	8802
75°	7171	7745	11803	7745
80°	6011	6346	11432	6346
85°	4437	4585	10948	4585



TEST NUMBER: P332681

CATALOG NUMBER: SA4XXDIP-C1195D590U835-4F0-1E-UDD-A4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.8	2.5
10°-20°	578.8	7.8
20°-30°	917.8	12.4
30°-40°	1021.3	13.7
40°-50°	929.7	12.5
50°-60°	759.7	10.2
60°-70°	542.4	7.3
70°-80°	298.7	4.0
80°-90°	83.1	1.1
90°-100°	209.7	2.8
100°-110°	436.5	5.9
110°-120°	391.0	5.3
120°-130°	328.9	4.4
130°-140°	274.2	3.7
140°-150°	209.5	2.8
150°-160°	147.2	2.0
160°-170°	86.6	1.2
170°-180°	28.2	0.4
0°-30°	1684.3	22.7
0°-40°	2705.6	36.4
0°-60°	4395.1	59.1
0°-90°	5319.3	71.6
90°-120°	1037.2	14.0
90°-150°	1849.7	24.9
90°-180°	2112.0	28.4
0°-180°	7431.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1927	1927	1927	1927	1927	
5°	2261	1925	1699	1925	2261	230
15°	3106	1840	1362	1840	3106	878
25°	3297	1682	1107	1682	3297	1454
35°	1950	1460	980	1460	1950	1238
45°	1094	1165	877	1165	1094	862
55°	715	821	765	821	715	646
65°	460	510	612	510	460	455
75°	230	248	378	248	230	244
85°	48	50	118	50	48	59
90°	12	1	12	1	12	12
95°	139	19	139	19	139	216
105°	803	67	803	67	803	794
115°	771	118	771	118	771	765
125°	615	164	615	164	615	559
135°	550	194	550	194	550	424
145°	449	224	449	224	449	285
155°	376	255	376	255	376	175
165°	328	278	328	278	328	94
175°	296	290	296	290	296	29
180°	290	290	290	290	290	



TEST NUMBER: P332681

CATALOG NUMBER: SA4XXDIP-C1195D590U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	2051.3	2050.6	2044.3	2043.0	2038.5	2032.8	2031.5	2021.3	2000.8	1991.2	1988.7
5°	2261.1	2277.1	2256.3	2252.3	2249.9	2223.6	2210.0	2194.0	2157.3	2135.8	2119.0
7.5°	2511.5	2513.4	2504.3	2497.0	2476.7	2453.7	2419.2	2382.5	2338.7	2293.2	2258.9
10°	2676.3	2682.7	2672.3	2670.7	2630.0	2604.4	2553.3	2510.2	2460.7	2405.6	2355.3
12.5°	2850.0	2841.1	2835.8	2801.6	2794.1	2747.5	2688.1	2643.7	2567.4	2504.0	2437.1
15°	3105.8	3088.3	3077.1	3030.0	3006.8	2942.1	2879.1	2830.4	2730.6	2635.6	2563.7
17.5°	3255.9	3273.5	3247.6	3228.3	3168.4	3123.1	3058.6	2956.4	2878.3	2760.3	2669.6
20°	3364.5	3366.1	3351.7	3331.8	3284.7	3227.2	3156.9	3045.1	2951.7	2834.4	2709.8
22.5°	3393.9	3394.2	3388.1	3369.5	3333.8	3287.2	3216.3	3123.1	3009.9	2882.3	2757.7
25°	3297.4	3294.2	3301.4	3322.2	3308.6	3294.2	3253.5	3184.1	3078.7	2943.7	2809.6
27.5°	2939.1	2961.1	3001.7	3052.8	3102.0	3139.5	3150.1	3135.8	3070.5	2959.6	2819.0
30°	2681.1	2708.2	2738.6	2789.6	2888.7	2945.3	3007.6	3054.7	3028.4	2939.8	2808.8
32.5°	2397.5	2404.2	2449.2	2507.3	2598.0	2707.1	2805.8	2901.4	2933.2	2886.7	2777.5
35°	1949.7	1960.9	2009.6	2067.1	2178.1	2311.4	2459.9	2592.4	2701.8	2745.7	2689.8
37.5°	1591.1	1623.2	1657.5	1719.3	1817.0	1937.1	2091.4	2262.9	2425.9	2535.1	2553.6
40°	1421.2	1441.1	1465.9	1513.0	1596.0	1714.2	1846.7	2043.1	2216.4	2372.9	2424.0
42.5°	1287.0	1298.7	1313.9	1356.5	1419.7	1537.3	1658.3	1831.1	2005.0	2192.1	2277.7
45°	1093.8	1105.8	1131.3	1156.1	1204.0	1285.4	1398.0	1540.1	1715.0	1895.4	2053.5
47.5°	954.3	961.9	977.1	1003.6	1044.3	1098.0	1189.6	1308.3	1470.4	1645.5	1814.0
50°	875.1	881.4	893.4	917.4	948.5	996.4	1071.5	1182.4	1309.4	1485.8	1651.1
52.5°	812.5	815.0	823.8	840.1	864.8	905.1	966.7	1058.5	1176.5	1333.8	1498.5
55°	715.4	718.6	726.6	738.5	760.1	785.6	832.7	901.4	1004.4	1140.9	1283.8
57.5°	635.5	637.8	644.5	649.1	666.8	687.6	723.8	772.9	850.9	966.7	1094.3
60°	584.4	582.8	590.8	594.8	606.8	624.4	652.3	699.4	767.3	860.7	978.1
62.5°	534.6	532.4	539.1	544.4	551.2	566.2	589.1	626.0	681.0	765.5	866.9
65°	459.9	456.7	460.7	467.1	473.5	481.4	498.2	530.9	574.9	635.5	713.0
67.5°	384.8	388.2	388.8	392.0	395.7	406.6	418.0	441.2	472.2	520.7	586.4
70°	340.1	340.9	344.1	344.1	346.5	356.1	365.7	379.2	409.6	454.3	507.8
72.5°	295.4	298.8	297.5	300.0	301.8	308.2	315.2	328.1	354.0	387.2	432.4
75°	229.9	232.3	232.3	233.1	235.5	237.9	243.5	253.1	271.5	296.2	327.3
77.5°	167.7	168.0	169.1	172.0	172.0	175.8	180.0	187.6	196.7	213.7	232.7
80°	129.3	130.9	130.1	131.7	131.7	134.9	136.5	146.1	150.1	161.3	176.4
82.5°	94.9	96.4	96.3	98.5	99.8	100.4	102.7	106.5	110.5	120.4	126.6
85°	47.9	49.5	47.9	49.5	51.9	52.7	55.1	55.9	59.1	61.5	67.1
87.5°	16.4	18.4	18.5	19.0	20.2	20.8	21.3	20.6	23.0	23.8	26.1
90°	12.0	12.0	12.5	12.0	11.4	11.4	10.8	10.3	9.7	10.3	9.1
92.5°	43.9	43.9	45.9	48.9	55.7	67.1	84.3	112.0	150.7	180.9	158.4
95°	139.2	146.6	156.9	174.6	202.5	257.8	334.3	422.7	478.0	464.9	350.8
97.5°	372.0	383.9	401.0	435.4	476.3	535.9	591.7	624.5	600.6	489.7	328.4
100°	523.1	527.7	544.8	579.6	629.2	671.4	699.4	688.0	604.7	458.6	297.8
102.5°	654.5	658.2	676.2	701.4	731.9	749.5	741.4	684.8	570.4	419.9	277.2
105°	802.6	806.0	814.0	818.6	817.5	794.1	737.6	638.9	508.3	374.2	259.6
107.5°	857.6	856.1	850.4	837.4	809.2	758.4	678.8	573.8	458.1	348.7	256.4
110°	858.5	853.4	843.1	819.2	778.7	715.9	633.2	534.5	433.0	340.0	257.3



TEST NUMBER: P332681

CATALOG NUMBER: SA4XXDIP-C1195D590U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	831.6	823.3	808.9	779.9	733.9	671.2	593.0	505.8	418.8	335.9	260.0
115°	770.7	766.1	747.9	713.6	668.6	613.8	547.1	476.9	405.6	333.7	265.3
117.5°	709.0	705.4	686.9	658.2	619.7	573.3	520.8	462.7	399.7	333.1	270.8
120°	674.3	668.0	653.2	628.1	595.5	555.0	509.4	456.4	396.5	333.1	275.0
122.5°	646.9	640.6	628.1	606.6	579.1	543.6	502.1	450.9	392.8	332.7	279.1
125°	614.9	611.5	600.7	584.1	561.3	529.9	490.6	441.5	386.8	332.0	285.2
127.5°	596.2	592.8	583.7	569.0	546.0	516.3	477.0	430.1	378.7	330.7	290.1
130°	585.3	581.9	572.7	558.5	535.1	504.8	466.1	421.0	373.6	330.3	293.8
132.5°	573.0	569.5	560.9	544.8	521.8	491.6	453.7	411.4	369.1	329.8	297.0
135°	549.9	546.5	537.4	521.4	498.6	470.0	435.3	398.2	362.2	329.1	301.8
137.5°	521.4	517.3	509.8	494.0	472.7	446.9	417.6	386.2	356.3	329.0	304.6
140°	500.9	496.3	488.3	475.8	455.8	431.8	406.2	379.3	353.1	328.6	306.9
142.5°	478.9	475.8	468.7	457.0	439.4	418.6	396.6	373.0	350.4	328.6	308.7
145°	448.9	446.1	440.4	430.7	416.4	400.5	383.3	363.9	345.7	327.4	309.8
147.5°	422.4	421.3	417.0	408.7	398.2	385.6	371.9	356.5	341.5	325.4	310.3
150°	407.3	406.7	403.3	395.9	386.8	376.5	365.1	352.0	338.3	324.0	310.3
152.5°	393.6	393.0	391.0	384.9	377.2	368.7	358.2	346.9	334.6	321.7	309.4
155°	375.9	375.9	374.2	369.7	363.9	357.1	348.5	339.4	329.1	318.3	308.0
157.5°	360.4	360.4	359.4	356.0	351.6	346.1	339.0	331.3	323.6	314.8	306.6
160°	350.8	350.8	350.3	346.8	343.4	338.8	332.6	326.3	319.5	312.0	305.2
162.5°	341.7	342.2	341.6	338.2	335.7	331.5	326.6	321.3	315.8	309.3	303.8
165°	328.0	328.6	329.1	326.9	324.6	321.7	317.7	314.3	309.8	305.2	301.2
167.5°	317.2	317.6	317.7	316.3	315.1	313.4	310.2	307.6	304.3	301.1	298.5
170°	310.3	310.3	310.9	310.3	309.2	307.5	305.2	303.5	300.6	298.3	296.6
172.5°	303.5	304.4	305.0	304.4	303.7	302.5	301.1	299.8	297.4	295.6	294.8
175°	295.5	296.6	297.8	296.6	296.6	296.6	295.5	294.9	293.8	292.6	292.6
177.5°	290.8	291.7	292.6	292.2	292.6	292.2	292.2	291.7	291.3	290.8	290.8
180°	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4



TEST NUMBER: P332681

CATALOG NUMBER: SA4XXDIP-C1195D590U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1989.3	1980.4	1974.0	1968.9	1954.8	1946.5	1940.1	1931.2	1921.0	1910.1	1896.7
5°	2102.2	2075.1	2055.1	2024.8	1996.0	1972.1	1947.3	1925.0	1897.8	1868.3	1846.7
7.5°	2220.9	2180.5	2128.7	2083.9	2033.4	1989.5	1950.2	1910.0	1868.1	1827.6	1790.4
10°	2296.2	2244.3	2186.8	2119.0	2055.1	1998.4	1945.7	1894.6	1845.1	1795.6	1753.3
12.5°	2377.4	2312.7	2227.7	2148.4	2076.8	2001.0	1937.4	1874.8	1815.1	1763.1	1713.7
15°	2486.3	2392.8	2294.6	2188.4	2094.2	2005.6	1918.6	1839.5	1772.5	1703.8	1655.9
17.5°	2553.2	2437.6	2325.3	2214.3	2100.3	1988.5	1894.6	1803.5	1719.5	1651.3	1590.9
20°	2597.2	2482.3	2342.5	2231.6	2095.8	1980.9	1872.3	1770.9	1683.1	1610.4	1548.1
22.5°	2635.6	2502.7	2363.0	2216.9	2081.8	1959.8	1841.0	1738.9	1649.2	1572.7	1513.0
25°	2656.3	2503.8	2352.1	2206.8	2053.5	1909.0	1801.2	1681.5	1585.6	1505.0	1441.1
27.5°	2658.6	2495.5	2323.9	2162.4	2004.2	1869.6	1733.5	1626.5	1527.0	1441.8	1380.5
30°	2651.5	2481.5	2297.0	2122.2	1963.3	1817.2	1699.0	1582.5	1481.1	1396.4	1332.5
32.5°	2629.2	2452.1	2262.5	2077.5	1912.8	1769.9	1647.9	1537.1	1438.3	1354.9	1287.8
35°	2564.5	2389.6	2187.6	1995.2	1826.8	1682.3	1572.1	1459.5	1360.5	1281.5	1216.8
37.5°	2463.4	2305.3	2100.0	1900.9	1735.4	1590.3	1481.1	1379.3	1290.1	1209.8	1143.5
40°	2375.3	2236.4	2030.4	1836.3	1657.5	1519.4	1417.2	1323.8	1235.1	1159.3	1096.2
42.5°	2273.7	2152.7	1962.7	1757.1	1584.7	1445.9	1346.3	1262.4	1178.9	1108.8	1045.8
45°	2092.6	2012.8	1834.0	1643.9	1464.3	1333.3	1238.3	1164.9	1094.6	1026.0	973.3
47.5°	1884.4	1844.8	1694.2	1513.8	1343.2	1214.2	1131.8	1064.0	1002.3	944.2	897.7
50°	1744.5	1725.4	1595.2	1421.2	1258.3	1136.9	1053.9	995.6	942.9	891.8	847.9
52.5°	1606.6	1605.9	1488.6	1329.2	1178.5	1061.6	979.2	924.7	879.1	837.5	798.1
55°	1395.6	1418.0	1326.2	1184.0	1049.1	943.7	869.5	820.8	788.8	754.5	725.0
57.5°	1201.9	1239.0	1163.3	1038.1	925.5	828.4	763.8	727.2	693.2	672.4	650.9
60°	1075.5	1110.6	1051.5	946.1	839.9	756.9	695.4	662.7	633.1	618.8	603.6
62.5°	963.0	994.3	950.6	852.9	760.7	680.9	629.0	597.5	577.6	561.9	551.9
65°	802.4	828.8	791.2	720.2	641.1	577.3	534.9	510.2	491.0	484.6	473.5
67.5°	648.6	672.6	652.3	591.9	528.5	480.2	447.1	423.3	412.0	406.4	398.4
70°	557.3	581.2	559.7	507.0	458.3	417.6	386.4	372.9	360.9	358.5	347.3
72.5°	480.0	496.3	474.7	433.5	391.9	357.5	333.4	319.2	313.0	308.7	302.6
75°	360.1	374.5	360.1	328.1	298.6	274.7	253.9	248.3	241.1	238.7	234.7
77.5°	254.9	267.3	256.3	236.3	214.3	195.8	184.6	177.4	175.8	171.7	173.6
80°	194.8	202.8	192.4	178.8	161.3	148.5	140.5	136.5	131.7	130.1	133.3
82.5°	139.9	143.4	138.1	129.0	115.9	107.6	102.2	97.6	96.6	96.9	96.9
85°	72.7	71.9	71.1	63.1	59.1	53.5	50.3	49.5	48.7	50.3	51.9
87.5°	25.9	26.5	25.2	22.6	20.6	18.6	17.6	16.7	17.6	18.6	19.3
90°	8.0	8.0	4.6	4.6	4.0	3.4	1.7	0.6	1.7	3.4	4.0
92.5°	115.2	71.0	42.0	30.1	21.8	14.8	9.5	6.5	9.5	14.8	21.8
95°	214.5	120.9	71.3	47.3	33.7	26.2	20.5	18.8	20.5	26.2	33.7
97.5°	192.8	115.6	77.4	57.3	45.5	38.7	33.8	33.8	33.8	38.7	45.5
100°	181.4	116.9	83.3	65.0	54.2	47.3	43.4	43.4	43.4	47.3	54.2
102.5°	178.2	121.5	91.0	73.7	63.3	56.9	53.4	52.5	53.4	56.9	63.3
105°	179.7	132.3	105.0	88.4	78.2	71.3	68.5	66.7	68.5	71.3	78.2
107.5°	188.1	145.0	119.9	103.6	93.8	86.5	83.6	82.5	83.6	86.5	93.8
110°	194.5	154.6	129.5	114.1	103.8	97.0	94.1	93.0	94.1	97.0	103.8



TEST NUMBER: P332681

CATALOG NUMBER: SA4XXDIP-C1195D590U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	201.4	163.7	139.5	124.1	113.9	107.5	104.2	103.0	104.2	107.5	113.9
115°	212.2	178.0	155.2	139.8	128.9	123.2	119.2	117.5	119.2	123.2	128.9
117.5°	223.3	191.8	170.1	154.1	144.0	137.7	134.2	132.6	134.2	137.7	144.0
120°	231.0	201.4	179.7	163.7	154.0	147.7	143.8	142.6	143.8	147.7	154.0
122.5°	238.3	210.5	188.8	173.3	162.7	156.9	152.9	151.7	152.9	156.9	162.7
125°	249.3	223.0	202.5	186.5	175.7	169.4	166.0	163.7	166.0	169.4	175.7
127.5°	258.8	234.7	214.8	198.7	187.4	180.3	176.2	174.3	176.2	180.3	187.4
130°	264.7	242.4	223.0	206.5	195.7	187.1	182.5	180.3	182.5	187.1	195.7
132.5°	270.6	248.8	229.4	213.8	202.1	194.0	188.0	186.2	188.0	194.0	202.1
135°	278.4	257.8	239.0	224.2	212.2	202.5	196.8	194.5	196.8	202.5	212.2
137.5°	283.9	264.7	247.1	233.0	220.5	211.3	205.0	202.9	205.0	211.3	220.5
140°	287.5	269.3	252.1	238.4	226.5	216.8	210.5	208.8	210.5	216.8	226.5
142.5°	290.2	273.4	256.7	243.5	231.9	222.7	216.9	215.2	216.9	222.7	231.9
145°	293.2	277.8	263.0	250.4	239.6	231.6	225.9	224.2	225.9	231.6	239.6
147.5°	295.8	282.4	268.5	257.2	248.1	239.9	234.9	234.3	234.9	239.9	248.1
150°	297.2	284.7	272.1	261.3	252.7	245.9	241.3	240.7	241.3	245.9	252.7
152.5°	298.1	286.5	275.3	265.4	257.7	251.3	246.8	246.7	246.8	251.3	257.7
155°	298.9	289.2	279.5	271.0	264.7	259.0	255.6	255.0	255.6	259.0	264.7
157.5°	298.9	291.2	282.9	276.2	270.7	266.3	263.1	263.1	263.1	266.3	270.7
160°	298.9	292.1	285.2	278.9	274.4	270.4	268.1	268.1	268.1	270.4	274.4
162.5°	298.9	293.0	286.6	281.7	277.6	274.0	272.2	272.7	272.2	274.0	277.6
165°	297.8	293.2	288.1	284.7	281.8	278.9	277.8	277.8	277.8	278.9	281.8
167.5°	296.4	293.1	289.3	286.7	285.1	282.9	282.4	282.9	282.4	282.9	285.1
170°	295.5	292.6	289.8	288.1	286.9	285.2	284.7	285.2	284.7	285.2	286.9
172.5°	294.6	292.2	290.2	289.0	288.3	287.0	286.9	287.5	286.9	287.0	288.3
175°	293.2	291.5	290.4	290.4	289.8	289.2	289.2	289.8	289.2	289.2	289.8
177.5°	291.7	290.8	290.4	290.4	290.4	289.9	290.4	290.8	290.4	289.9	290.4
180°	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4



TEST NUMBER: P332681

CATALOG NUMBER: SA4XXDIP-C1195D590U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1890.3	1884.6	1876.3	1864.8	1855.2	1845.0	1842.4	1838.6	1846.2	1839.9	1837.9
5°	1828.4	1811.6	1790.0	1765.3	1750.9	1730.2	1726.2	1718.2	1710.2	1709.4	1701.4
7.5°	1762.7	1738.1	1709.9	1684.6	1661.3	1638.7	1623.8	1620.6	1608.8	1601.9	1593.9
10°	1720.6	1690.2	1657.5	1633.6	1606.4	1582.5	1565.7	1556.1	1548.1	1539.3	1531.4
12.5°	1670.8	1638.5	1611.5	1585.6	1553.4	1535.2	1507.6	1491.0	1489.4	1489.5	1468.8
15°	1612.8	1580.9	1539.3	1502.6	1485.0	1449.9	1434.7	1415.6	1403.6	1391.6	1382.1
17.5°	1546.5	1506.8	1474.3	1432.2	1398.7	1370.7	1350.8	1339.3	1321.2	1304.3	1292.0
20°	1505.0	1462.7	1428.4	1383.6	1346.9	1312.6	1295.8	1279.9	1266.3	1251.9	1238.3
22.5°	1462.8	1418.6	1376.6	1333.2	1299.0	1262.8	1246.6	1224.9	1212.0	1204.0	1190.4
25°	1396.4	1348.5	1300.6	1259.1	1224.0	1192.0	1170.5	1153.7	1139.3	1132.9	1124.2
27.5°	1324.2	1276.7	1230.4	1183.2	1143.3	1120.2	1102.9	1090.3	1082.0	1073.5	1069.6
30°	1278.3	1228.8	1179.3	1135.3	1098.6	1075.5	1059.5	1050.7	1044.3	1040.3	1036.3
32.5°	1231.6	1182.8	1130.7	1090.6	1057.7	1037.1	1025.0	1016.2	1013.0	1011.6	1010.2
35°	1156.9	1107.4	1059.5	1023.6	992.4	984.4	974.1	969.3	967.7	973.3	975.7
37.5°	1084.6	1038.6	994.5	959.7	939.3	927.6	924.1	924.2	930.0	934.9	940.7
40°	1037.9	993.2	951.7	921.4	902.2	895.0	893.4	897.4	903.8	909.4	915.8
42.5°	992.6	948.5	910.8	882.4	869.0	862.4	863.4	867.4	876.3	883.2	892.8
45°	922.2	885.4	848.7	825.6	814.4	816.0	816.0	823.2	831.9	842.3	852.7
47.5°	855.9	818.9	788.7	769.2	763.4	762.0	766.5	775.9	788.5	801.3	815.8
50°	811.2	776.1	749.7	732.1	725.8	728.2	734.5	743.3	758.5	774.5	789.6
52.5°	765.8	733.9	709.5	693.2	688.7	693.0	699.4	713.3	726.6	743.8	762.2
55°	695.4	668.3	649.1	637.1	635.5	637.9	645.1	660.3	679.4	701.0	718.6
57.5°	625.3	602.6	585.1	576.8	577.6	579.8	591.6	609.7	630.1	653.1	675.8
60°	578.0	557.3	542.9	536.5	537.3	542.1	556.5	573.3	598.8	621.2	645.1
62.5°	533.3	515.1	501.4	495.7	494.5	505.1	518.8	536.2	561.8	586.7	612.5
65°	461.5	447.1	435.9	432.7	435.1	443.1	460.7	483.8	505.4	531.7	558.9
67.5°	391.2	379.4	371.7	373.2	376.1	387.9	402.6	422.5	447.0	474.3	501.1
70°	346.5	335.3	328.9	329.7	334.5	348.9	361.7	381.6	408.0	435.9	458.3
72.5°	300.5	293.2	287.4	290.8	295.6	305.5	321.4	341.4	364.6	390.6	414.2
75°	230.7	230.7	227.5	229.9	237.1	246.7	258.7	279.4	302.6	323.4	342.5
77.5°	171.2	169.4	171.5	174.4	178.5	189.9	203.6	218.4	235.9	256.6	272.4
80°	130.9	131.7	135.7	140.5	142.1	150.9	165.3	178.8	192.4	210.0	225.2
82.5°	98.4	99.2	101.2	107.3	108.9	118.3	127.6	141.2	153.5	165.3	177.9
85°	53.5	53.5	57.5	59.9	63.9	70.3	75.8	83.8	95.0	103.0	115.0
87.5°	21.4	21.4	24.6	25.9	28.0	31.4	32.6	39.7	42.4	45.7	51.5
90°	4.6	4.6	8.0	8.0	9.1	10.3	9.7	10.3	10.8	11.4	11.4
92.5°	30.1	42.0	71.0	115.2	158.4	180.9	150.7	112.0	84.3	67.1	55.7
95°	47.3	71.3	120.9	214.5	350.8	464.9	478.0	422.7	334.3	257.8	202.5
97.5°	57.3	77.4	115.6	192.8	328.4	489.7	600.6	624.5	591.7	535.9	476.3
100°	65.0	83.3	116.9	181.4	297.8	458.6	604.7	688.0	699.4	671.4	629.2
102.5°	73.7	91.0	121.5	178.2	277.2	419.9	570.4	684.8	741.4	749.5	731.9
105°	88.4	105.0	132.3	179.7	259.6	374.2	508.3	638.9	737.6	794.1	817.5
107.5°	103.6	119.9	145.0	188.1	256.4	348.7	458.1	573.8	678.8	758.4	809.2
110°	114.1	129.5	154.6	194.5	257.3	340.0	433.0	534.5	633.2	715.9	778.7



TEST NUMBER: P332681

CATALOG NUMBER: SA4XXDIP-C1195D590U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	124.1	139.5	163.7	201.4	260.0	335.9	418.8	505.8	593.0	671.2	733.9
115°	139.8	155.2	178.0	212.2	265.3	333.7	405.6	476.9	547.1	613.8	668.6
117.5°	154.1	170.1	191.8	223.3	270.8	333.1	399.7	462.7	520.8	573.3	619.7
120°	163.7	179.7	201.4	231.0	275.0	333.1	396.5	456.4	509.4	555.0	595.5
122.5°	173.3	188.8	210.5	238.3	279.1	332.7	392.8	450.9	502.1	543.6	579.1
125°	186.5	202.5	223.0	249.3	285.2	332.0	386.8	441.5	490.6	529.9	561.3
127.5°	198.7	214.8	234.7	258.8	290.1	330.7	378.7	430.1	477.0	516.3	546.0
130°	206.5	223.0	242.4	264.7	293.8	330.3	373.6	421.0	466.1	504.8	535.1
132.5°	213.8	229.4	248.8	270.6	297.0	329.8	369.1	411.4	453.7	491.6	521.8
135°	224.2	239.0	257.8	278.4	301.8	329.1	362.2	398.2	435.3	470.0	498.6
137.5°	233.0	247.1	264.7	283.9	304.6	329.0	356.3	386.2	417.6	446.9	472.7
140°	238.4	252.1	269.3	287.5	306.9	328.6	353.1	379.3	406.2	431.8	455.8
142.5°	243.5	256.7	273.4	290.2	308.7	328.6	350.4	373.0	396.6	418.6	439.4
145°	250.4	263.0	277.8	293.2	309.8	327.4	345.7	363.9	383.3	400.5	416.4
147.5°	257.2	268.5	282.4	295.8	310.3	325.4	341.5	356.5	371.9	385.6	398.2
150°	261.3	272.1	284.7	297.2	310.3	324.0	338.3	352.0	365.1	376.5	386.8
152.5°	265.4	275.3	286.5	298.1	309.4	321.7	334.6	346.9	358.2	368.7	377.2
155°	271.0	279.5	289.2	298.9	308.0	318.3	329.1	339.4	348.5	357.1	363.9
157.5°	276.2	282.9	291.2	298.9	306.6	314.8	323.6	331.3	339.0	346.1	351.6
160°	278.9	285.2	292.1	298.9	305.2	312.0	319.5	326.3	332.6	338.8	343.4
162.5°	281.7	286.6	293.0	298.9	303.8	309.3	315.8	321.3	326.6	331.5	335.7
165°	284.7	288.1	293.2	297.8	301.2	305.2	309.8	314.3	317.7	321.7	324.6
167.5°	286.7	289.3	293.1	296.4	298.5	301.1	304.3	307.6	310.2	313.4	315.1
170°	288.1	289.8	292.6	295.5	296.6	298.3	300.6	303.5	305.2	307.5	309.2
172.5°	289.0	290.2	292.2	294.6	294.8	295.6	297.4	299.8	301.1	302.5	303.7
175°	290.4	290.4	291.5	293.2	292.6	292.6	293.8	294.9	295.5	296.6	296.6
177.5°	290.4	290.4	290.8	291.7	290.8	290.8	291.3	291.7	292.2	292.2	292.6
180°	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4



TEST NUMBER: P332681

CATALOG NUMBER: SA4XXDIP-C1195D590U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1836.7	1835.4	1830.9	1830.3	1830.9	1835.4	1836.7	1837.9	1839.9	1846.2	1838.6
5°	1696.6	1692.6	1690.2	1699.0	1690.2	1692.6	1696.6	1701.4	1709.4	1710.2	1718.2
7.5°	1591.1	1587.9	1580.9	1578.6	1580.9	1587.9	1591.1	1593.9	1601.9	1608.8	1620.6
10°	1523.4	1520.2	1513.8	1512.2	1513.8	1520.2	1523.4	1531.4	1539.3	1548.1	1556.1
12.5°	1458.2	1451.8	1450.6	1452.2	1450.6	1451.8	1458.2	1468.8	1489.5	1489.4	1491.0
15°	1371.7	1368.5	1359.7	1362.1	1359.7	1368.5	1371.7	1382.1	1391.6	1403.6	1415.6
17.5°	1286.4	1282.6	1271.9	1281.3	1271.9	1282.6	1286.4	1292.0	1304.3	1321.2	1339.3
20°	1232.7	1226.4	1220.8	1220.0	1220.8	1226.4	1232.7	1238.3	1251.9	1266.3	1279.9
22.5°	1181.6	1175.9	1175.4	1170.2	1175.4	1175.9	1181.6	1190.4	1204.0	1212.0	1224.9
25°	1117.8	1112.2	1110.6	1106.6	1110.6	1112.2	1117.8	1124.2	1132.9	1139.3	1153.7
27.5°	1068.8	1066.0	1063.2	1064.4	1063.2	1066.0	1068.8	1069.6	1073.5	1082.0	1090.3
30°	1038.7	1037.9	1036.3	1036.3	1036.3	1037.9	1038.7	1036.3	1040.3	1044.3	1050.7
32.5°	1013.8	1013.7	1014.6	1014.6	1014.6	1013.7	1013.8	1010.2	1011.6	1013.0	1016.2
35°	978.9	981.2	982.8	980.4	982.8	981.2	978.9	975.7	973.3	967.7	969.3
37.5°	947.2	949.6	951.9	954.6	951.9	949.6	947.2	940.7	934.9	930.0	924.2
40°	923.0	928.6	930.1	934.1	930.1	928.6	923.0	915.8	909.4	903.8	897.4
42.5°	900.0	906.2	910.3	911.1	910.3	906.2	900.0	892.8	883.2	876.3	867.4
45°	864.7	871.1	876.7	876.7	876.7	871.1	864.7	852.7	842.3	831.9	823.2
47.5°	828.1	837.4	843.0	844.4	843.0	837.4	828.1	815.8	801.3	788.5	775.9
50°	803.2	814.4	820.0	824.0	820.0	814.4	803.2	789.6	774.5	758.5	743.3
52.5°	778.9	790.1	797.6	799.7	797.6	790.1	778.9	762.2	743.8	726.6	713.3
55°	736.9	752.9	761.7	764.9	761.7	752.9	736.9	718.6	701.0	679.4	660.3
57.5°	697.3	712.0	722.2	724.6	722.2	712.0	697.3	675.8	653.1	630.1	609.7
60°	666.7	682.6	695.4	697.8	695.4	682.6	666.7	645.1	621.2	598.8	573.3
62.5°	635.4	652.0	663.5	669.7	663.5	652.0	635.4	612.5	586.7	561.8	536.2
65°	581.2	598.0	609.2	611.6	609.2	598.0	581.2	558.9	531.7	505.4	483.8
67.5°	522.2	538.9	546.3	550.9	546.3	538.9	522.2	501.1	474.3	447.0	422.5
70°	480.6	494.2	502.2	506.2	502.2	494.2	480.6	458.3	435.9	408.0	381.6
72.5°	433.4	447.6	456.9	457.6	456.9	447.6	433.4	414.2	390.6	364.6	341.4
75°	360.9	373.7	378.4	378.4	378.4	373.7	360.9	342.5	323.4	302.6	279.4
77.5°	285.7	292.2	298.3	299.6	298.3	292.2	285.7	272.4	256.6	235.9	218.4
80°	237.1	241.1	245.9	245.9	245.9	241.1	237.1	225.2	210.0	192.4	178.8
82.5°	187.3	190.7	195.5	194.8	195.5	190.7	187.3	177.9	165.3	153.5	141.2
85°	113.4	120.6	119.8	118.2	119.8	120.6	113.4	115.0	103.0	95.0	83.8
87.5°	53.5	54.2	56.0	57.3	56.0	54.2	53.5	51.5	45.7	42.4	39.7
90°	12.0	12.5	12.0	12.0	12.0	12.5	12.0	11.4	11.4	10.8	10.3
92.5°	48.9	45.9	43.9	43.9	43.9	45.9	48.9	55.7	67.1	84.3	112.0
95°	174.6	156.9	146.6	139.2	146.6	156.9	174.6	202.5	257.8	334.3	422.7
97.5°	435.4	401.0	383.9	372.0	383.9	401.0	435.4	476.3	535.9	591.7	624.5
100°	579.6	544.8	527.7	523.1	527.7	544.8	579.6	629.2	671.4	699.4	688.0
102.5°	701.4	676.2	658.2	654.5	658.2	676.2	701.4	731.9	749.5	741.4	684.8
105°	818.6	814.0	806.0	802.6	806.0	814.0	818.6	817.5	794.1	737.6	638.9
107.5°	837.4	850.4	856.1	857.6	856.1	850.4	837.4	809.2	758.4	678.8	573.8
110°	819.2	843.1	853.4	858.5	853.4	843.1	819.2	778.7	715.9	633.2	534.5



TEST NUMBER: P332681

CATALOG NUMBER: SA4XXDIP-C1195D590U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	779.9	808.9	823.3	831.6	823.3	808.9	779.9	733.9	671.2	593.0	505.8
115°	713.6	747.9	766.1	770.7	766.1	747.9	713.6	668.6	613.8	547.1	476.9
117.5°	658.2	686.9	705.4	709.0	705.4	686.9	658.2	619.7	573.3	520.8	462.7
120°	628.1	653.2	668.0	674.3	668.0	653.2	628.1	595.5	555.0	509.4	456.4
122.5°	606.6	628.1	640.6	646.9	640.6	628.1	606.6	579.1	543.6	502.1	450.9
125°	584.1	600.7	611.5	614.9	611.5	600.7	584.1	561.3	529.9	490.6	441.5
127.5°	569.0	583.7	592.8	596.2	592.8	583.7	569.0	546.0	516.3	477.0	430.1
130°	558.5	572.7	581.9	585.3	581.9	572.7	558.5	535.1	504.8	466.1	421.0
132.5°	544.8	560.9	569.5	573.0	569.5	560.9	544.8	521.8	491.6	453.7	411.4
135°	521.4	537.4	546.5	549.9	546.5	537.4	521.4	498.6	470.0	435.3	398.2
137.5°	494.0	509.8	517.3	521.4	517.3	509.8	494.0	472.7	446.9	417.6	386.2
140°	475.8	488.3	496.3	500.9	496.3	488.3	475.8	455.8	431.8	406.2	379.3
142.5°	457.0	468.7	475.8	478.9	475.8	468.7	457.0	439.4	418.6	396.6	373.0
145°	430.7	440.4	446.1	448.9	446.1	440.4	430.7	416.4	400.5	383.3	363.9
147.5°	408.7	417.0	421.3	422.4	421.3	417.0	408.7	398.2	385.6	371.9	356.5
150°	395.9	403.3	406.7	407.3	406.7	403.3	395.9	386.8	376.5	365.1	352.0
152.5°	384.9	391.0	393.0	393.6	393.0	391.0	384.9	377.2	368.7	358.2	346.9
155°	369.7	374.2	375.9	375.9	375.9	374.2	369.7	363.9	357.1	348.5	339.4
157.5°	356.0	359.4	360.4	360.4	360.4	359.4	356.0	351.6	346.1	339.0	331.3
160°	346.8	350.3	350.8	350.8	350.8	350.3	346.8	343.4	338.8	332.6	326.3
162.5°	338.2	341.6	342.2	341.7	342.2	341.6	338.2	335.7	331.5	326.6	321.3
165°	326.9	329.1	328.6	328.0	328.6	329.1	326.9	324.6	321.7	317.7	314.3
167.5°	316.3	317.7	317.6	317.2	317.6	317.7	316.3	315.1	313.4	310.2	307.6
170°	310.3	310.9	310.3	310.3	310.3	310.9	310.3	309.2	307.5	305.2	303.5
172.5°	304.4	305.0	304.4	303.5	304.4	305.0	304.4	303.7	302.5	301.1	299.8
175°	296.6	297.8	296.6	295.5	296.6	297.8	296.6	296.6	296.6	295.5	294.9
177.5°	292.2	292.6	291.7	290.8	291.7	292.6	292.2	292.6	292.2	292.2	291.7
180°	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4



TEST NUMBER: P332681

CATALOG NUMBER: SA4XXDIP-C1195D590U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1842.4	1845.0	1855.2	1864.8	1876.3	1884.6	1890.3	1896.7	1910.1	1921.0	1931.2
5°	1726.2	1730.2	1750.9	1765.3	1790.0	1811.6	1828.4	1846.7	1868.3	1897.8	1925.0
7.5°	1623.8	1638.7	1661.3	1684.6	1709.9	1738.1	1762.7	1790.4	1827.6	1868.1	1910.0
10°	1565.7	1582.5	1606.4	1633.6	1657.5	1690.2	1720.6	1753.3	1795.6	1845.1	1894.6
12.5°	1507.6	1535.2	1553.4	1585.6	1611.5	1638.5	1670.8	1713.7	1763.1	1815.1	1874.8
15°	1434.7	1449.9	1485.0	1502.6	1539.3	1580.9	1612.8	1655.9	1703.8	1772.5	1839.5
17.5°	1350.8	1370.7	1398.7	1432.2	1474.3	1506.8	1546.5	1590.9	1651.3	1719.5	1803.5
20°	1295.8	1312.6	1346.9	1383.6	1428.4	1462.7	1505.0	1548.1	1610.4	1683.1	1770.9
22.5°	1246.6	1262.8	1299.0	1333.2	1376.6	1418.6	1462.8	1513.0	1572.7	1649.2	1738.9
25°	1170.5	1192.0	1224.0	1259.1	1300.6	1348.5	1396.4	1441.1	1505.0	1585.6	1681.5
27.5°	1102.9	1120.2	1143.3	1183.2	1230.4	1276.7	1324.2	1380.5	1441.8	1527.0	1626.5
30°	1059.5	1075.5	1098.6	1135.3	1179.3	1228.8	1278.3	1332.5	1396.4	1481.1	1582.5
32.5°	1025.0	1037.1	1057.7	1090.6	1130.7	1182.8	1231.6	1287.8	1354.9	1438.3	1537.1
35°	974.1	984.4	992.4	1023.6	1059.5	1107.4	1156.9	1216.8	1281.5	1360.5	1459.5
37.5°	924.1	927.6	939.3	959.7	994.5	1038.6	1084.6	1143.5	1209.8	1290.1	1379.3
40°	893.4	895.0	902.2	921.4	951.7	993.2	1037.9	1096.2	1159.3	1235.1	1323.8
42.5°	863.4	862.4	869.0	882.4	910.8	948.5	992.6	1045.8	1108.8	1178.9	1262.4
45°	816.0	816.0	814.4	825.6	848.7	885.4	922.2	973.3	1026.0	1094.6	1164.9
47.5°	766.5	762.0	763.4	769.2	788.7	818.9	855.9	897.7	944.2	1002.3	1064.0
50°	734.5	728.2	725.8	732.1	749.7	776.1	811.2	847.9	891.8	942.9	995.6
52.5°	699.4	693.0	688.7	693.2	709.5	733.9	765.8	798.1	837.5	879.1	924.7
55°	645.1	637.9	635.5	637.1	649.1	668.3	695.4	725.0	754.5	788.8	820.8
57.5°	591.6	579.8	577.6	576.8	585.1	602.6	625.3	650.9	672.4	693.2	727.2
60°	556.5	542.1	537.3	536.5	542.9	557.3	578.0	603.6	618.8	633.1	662.7
62.5°	518.8	505.1	494.5	495.7	501.4	515.1	533.3	551.9	561.9	577.6	597.5
65°	460.7	443.1	435.1	432.7	435.9	447.1	461.5	473.5	484.6	491.0	510.2
67.5°	402.6	387.9	376.1	373.2	371.7	379.4	391.2	398.4	406.4	412.0	423.3
70°	361.7	348.9	334.5	329.7	328.9	335.3	346.5	347.3	358.5	360.9	372.9
72.5°	321.4	305.5	295.6	290.8	287.4	293.2	300.5	302.6	308.7	313.0	319.2
75°	258.7	246.7	237.1	229.9	227.5	230.7	230.7	234.7	238.7	241.1	248.3
77.5°	203.6	189.9	178.5	174.4	171.5	169.4	171.2	173.6	171.7	175.8	177.4
80°	165.3	150.9	142.1	140.5	135.7	131.7	130.9	133.3	130.1	131.7	136.5
82.5°	127.6	118.3	108.9	107.3	101.2	99.2	98.4	96.9	96.9	96.6	97.6
85°	75.8	70.3	63.9	59.9	57.5	53.5	53.5	51.9	50.3	48.7	49.5
87.5°	32.6	31.4	28.0	25.9	24.6	21.4	21.4	19.3	18.6	17.6	16.7
90°	9.7	10.3	9.1	8.0	8.0	4.6	4.6	4.0	3.4	1.7	0.6
92.5°	150.7	180.9	158.4	115.2	71.0	42.0	30.1	21.8	14.8	9.5	6.5
95°	478.0	464.9	350.8	214.5	120.9	71.3	47.3	33.7	26.2	20.5	18.8
97.5°	600.6	489.7	328.4	192.8	115.6	77.4	57.3	45.5	38.7	33.8	33.8
100°	604.7	458.6	297.8	181.4	116.9	83.3	65.0	54.2	47.3	43.4	43.4
102.5°	570.4	419.9	277.2	178.2	121.5	91.0	73.7	63.3	56.9	53.4	52.5
105°	508.3	374.2	259.6	179.7	132.3	105.0	88.4	78.2	71.3	68.5	66.7
107.5°	458.1	348.7	256.4	188.1	145.0	119.9	103.6	93.8	86.5	83.6	82.5
110°	433.0	340.0	257.3	194.5	154.6	129.5	114.1	103.8	97.0	94.1	93.0



TEST NUMBER: P332681

CATALOG NUMBER: SA4XXDIP-C1195D590U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	418.8	335.9	260.0	201.4	163.7	139.5	124.1	113.9	107.5	104.2	103.0
115°	405.6	333.7	265.3	212.2	178.0	155.2	139.8	128.9	123.2	119.2	117.5
117.5°	399.7	333.1	270.8	223.3	191.8	170.1	154.1	144.0	137.7	134.2	132.6
120°	396.5	333.1	275.0	231.0	201.4	179.7	163.7	154.0	147.7	143.8	142.6
122.5°	392.8	332.7	279.1	238.3	210.5	188.8	173.3	162.7	156.9	152.9	151.7
125°	386.8	332.0	285.2	249.3	223.0	202.5	186.5	175.7	169.4	166.0	163.7
127.5°	378.7	330.7	290.1	258.8	234.7	214.8	198.7	187.4	180.3	176.2	174.3
130°	373.6	330.3	293.8	264.7	242.4	223.0	206.5	195.7	187.1	182.5	180.3
132.5°	369.1	329.8	297.0	270.6	248.8	229.4	213.8	202.1	194.0	188.0	186.2
135°	362.2	329.1	301.8	278.4	257.8	239.0	224.2	212.2	202.5	196.8	194.5
137.5°	356.3	329.0	304.6	283.9	264.7	247.1	233.0	220.5	211.3	205.0	202.9
140°	353.1	328.6	306.9	287.5	269.3	252.1	238.4	226.5	216.8	210.5	208.8
142.5°	350.4	328.6	308.7	290.2	273.4	256.7	243.5	231.9	222.7	216.9	215.2
145°	345.7	327.4	309.8	293.2	277.8	263.0	250.4	239.6	231.6	225.9	224.2
147.5°	341.5	325.4	310.3	295.8	282.4	268.5	257.2	248.1	239.9	234.9	234.3
150°	338.3	324.0	310.3	297.2	284.7	272.1	261.3	252.7	245.9	241.3	240.7
152.5°	334.6	321.7	309.4	298.1	286.5	275.3	265.4	257.7	251.3	246.8	246.7
155°	329.1	318.3	308.0	298.9	289.2	279.5	271.0	264.7	259.0	255.6	255.0
157.5°	323.6	314.8	306.6	298.9	291.2	282.9	276.2	270.7	266.3	263.1	263.1
160°	319.5	312.0	305.2	298.9	292.1	285.2	278.9	274.4	270.4	268.1	268.1
162.5°	315.8	309.3	303.8	298.9	293.0	286.6	281.7	277.6	274.0	272.2	272.7
165°	309.8	305.2	301.2	297.8	293.2	288.1	284.7	281.8	278.9	277.8	277.8
167.5°	304.3	301.1	298.5	296.4	293.1	289.3	286.7	285.1	282.9	282.4	282.9
170°	300.6	298.3	296.6	295.5	292.6	289.8	288.1	286.9	285.2	284.7	285.2
172.5°	297.4	295.6	294.8	294.6	292.2	290.2	289.0	288.3	287.0	286.9	287.5
175°	293.8	292.6	292.6	293.2	291.5	290.4	290.4	289.8	289.2	289.2	289.8
177.5°	291.3	290.8	290.8	291.7	290.8	290.4	290.4	290.4	289.9	290.4	290.8
180°	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4



TEST NUMBER: P332681

CATALOG NUMBER: SA4XXDIP-C1195D590U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1940.1	1946.5	1954.8	1968.9	1974.0	1980.4	1989.3	1988.7	1991.2	2000.8	2021.3
5°	1947.3	1972.1	1996.0	2024.8	2055.1	2075.1	2102.2	2119.0	2135.8	2157.3	2194.0
7.5°	1950.2	1989.5	2033.4	2083.9	2128.7	2180.5	2220.9	2258.9	2293.2	2338.7	2382.5
10°	1945.7	1998.4	2055.1	2119.0	2186.8	2244.3	2296.2	2355.3	2405.6	2460.7	2510.2
12.5°	1937.4	2001.0	2076.8	2148.4	2227.7	2312.7	2377.4	2437.1	2504.0	2567.4	2643.7
15°	1918.6	2005.6	2094.2	2188.4	2294.6	2392.8	2486.3	2563.7	2635.6	2730.6	2830.4
17.5°	1894.6	1988.5	2100.3	2214.3	2325.3	2437.6	2553.2	2669.6	2760.3	2878.3	2956.4
20°	1872.3	1980.9	2095.8	2231.6	2342.5	2482.3	2597.2	2709.8	2834.4	2951.7	3045.1
22.5°	1841.0	1959.8	2081.8	2216.9	2363.0	2502.7	2635.6	2757.7	2882.3	3009.9	3123.1
25°	1801.2	1909.0	2053.5	2206.8	2352.1	2503.8	2656.3	2809.6	2943.7	3078.7	3184.1
27.5°	1733.5	1869.6	2004.2	2162.4	2323.9	2495.5	2658.6	2819.0	2959.6	3070.5	3135.8
30°	1699.0	1817.2	1963.3	2122.2	2297.0	2481.5	2651.5	2808.8	2939.8	3028.4	3054.7
32.5°	1647.9	1769.9	1912.8	2077.5	2262.5	2452.1	2629.2	2777.5	2886.7	2933.2	2901.4
35°	1572.1	1682.3	1826.8	1995.2	2187.6	2389.6	2564.5	2689.8	2745.7	2701.8	2592.4
37.5°	1481.1	1590.3	1735.4	1900.9	2100.0	2305.3	2463.4	2553.6	2535.1	2425.9	2262.9
40°	1417.2	1519.4	1657.5	1836.3	2030.4	2236.4	2375.3	2424.0	2372.9	2216.4	2043.1
42.5°	1346.3	1445.9	1584.7	1757.1	1962.7	2152.7	2273.7	2277.7	2192.1	2005.0	1831.1
45°	1238.3	1333.3	1464.3	1643.9	1834.0	2012.8	2092.6	2053.5	1895.4	1715.0	1540.1
47.5°	1131.8	1214.2	1343.2	1513.8	1694.2	1844.8	1884.4	1814.0	1645.5	1470.4	1308.3
50°	1053.9	1136.9	1258.3	1421.2	1595.2	1725.4	1744.5	1651.1	1485.8	1309.4	1182.4
52.5°	979.2	1061.6	1178.5	1329.2	1488.6	1605.9	1606.6	1498.5	1333.8	1176.5	1058.5
55°	869.5	943.7	1049.1	1184.0	1326.2	1418.0	1395.6	1283.8	1140.9	1004.4	901.4
57.5°	763.8	828.4	925.5	1038.1	1163.3	1239.0	1201.9	1094.3	966.7	850.9	772.9
60°	695.4	756.9	839.9	946.1	1051.5	1110.6	1075.5	978.1	860.7	767.3	699.4
62.5°	629.0	680.9	760.7	852.9	950.6	994.3	963.0	866.9	765.5	681.0	626.0
65°	534.9	577.3	641.1	720.2	791.2	828.8	802.4	713.0	635.5	574.9	530.9
67.5°	447.1	480.2	528.5	591.9	652.3	672.6	648.6	586.4	520.7	472.2	441.2
70°	386.4	417.6	458.3	507.0	559.7	581.2	557.3	507.8	454.3	409.6	379.2
72.5°	333.4	357.5	391.9	433.5	474.7	496.3	480.0	432.4	387.2	354.0	328.1
75°	253.9	274.7	298.6	328.1	360.1	374.5	360.1	327.3	296.2	271.5	253.1
77.5°	184.6	195.8	214.3	236.3	256.3	267.3	254.9	232.7	213.7	196.7	187.6
80°	140.5	148.5	161.3	178.8	192.4	202.8	194.8	176.4	161.3	150.1	146.1
82.5°	102.2	107.6	115.9	129.0	138.1	143.4	139.9	126.6	120.4	110.5	106.5
85°	50.3	53.5	59.1	63.1	71.1	71.9	72.7	67.1	61.5	59.1	55.9
87.5°	17.6	18.6	20.6	22.6	25.2	26.5	25.9	26.1	23.8	23.0	20.6
90°	1.7	3.4	4.0	4.6	4.6	8.0	8.0	9.1	10.3	9.7	10.3
92.5°	9.5	14.8	21.8	30.1	42.0	71.0	115.2	158.4	180.9	150.7	112.0
95°	20.5	26.2	33.7	47.3	71.3	120.9	214.5	350.8	464.9	478.0	422.7
97.5°	33.8	38.7	45.5	57.3	77.4	115.6	192.8	328.4	489.7	600.6	624.5
100°	43.4	47.3	54.2	65.0	83.3	116.9	181.4	297.8	458.6	604.7	688.0
102.5°	53.4	56.9	63.3	73.7	91.0	121.5	178.2	277.2	419.9	570.4	684.8
105°	68.5	71.3	78.2	88.4	105.0	132.3	179.7	259.6	374.2	508.3	638.9
107.5°	83.6	86.5	93.8	103.6	119.9	145.0	188.1	256.4	348.7	458.1	573.8
110°	94.1	97.0	103.8	114.1	129.5	154.6	194.5	257.3	340.0	433.0	534.5



TEST NUMBER: P332681

CATALOG NUMBER: SA4XXDIP-C1195D590U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	104.2	107.5	113.9	124.1	139.5	163.7	201.4	260.0	335.9	418.8	505.8
115°	119.2	123.2	128.9	139.8	155.2	178.0	212.2	265.3	333.7	405.6	476.9
117.5°	134.2	137.7	144.0	154.1	170.1	191.8	223.3	270.8	333.1	399.7	462.7
120°	143.8	147.7	154.0	163.7	179.7	201.4	231.0	275.0	333.1	396.5	456.4
122.5°	152.9	156.9	162.7	173.3	188.8	210.5	238.3	279.1	332.7	392.8	450.9
125°	166.0	169.4	175.7	186.5	202.5	223.0	249.3	285.2	332.0	386.8	441.5
127.5°	176.2	180.3	187.4	198.7	214.8	234.7	258.8	290.1	330.7	378.7	430.1
130°	182.5	187.1	195.7	206.5	223.0	242.4	264.7	293.8	330.3	373.6	421.0
132.5°	188.0	194.0	202.1	213.8	229.4	248.8	270.6	297.0	329.8	369.1	411.4
135°	196.8	202.5	212.2	224.2	239.0	257.8	278.4	301.8	329.1	362.2	398.2
137.5°	205.0	211.3	220.5	233.0	247.1	264.7	283.9	304.6	329.0	356.3	386.2
140°	210.5	216.8	226.5	238.4	252.1	269.3	287.5	306.9	328.6	353.1	379.3
142.5°	216.9	222.7	231.9	243.5	256.7	273.4	290.2	308.7	328.6	350.4	373.0
145°	225.9	231.6	239.6	250.4	263.0	277.8	293.2	309.8	327.4	345.7	363.9
147.5°	234.9	239.9	248.1	257.2	268.5	282.4	295.8	310.3	325.4	341.5	356.5
150°	241.3	245.9	252.7	261.3	272.1	284.7	297.2	310.3	324.0	338.3	352.0
152.5°	246.8	251.3	257.7	265.4	275.3	286.5	298.1	309.4	321.7	334.6	346.9
155°	255.6	259.0	264.7	271.0	279.5	289.2	298.9	308.0	318.3	329.1	339.4
157.5°	263.1	266.3	270.7	276.2	282.9	291.2	298.9	306.6	314.8	323.6	331.3
160°	268.1	270.4	274.4	278.9	285.2	292.1	298.9	305.2	312.0	319.5	326.3
162.5°	272.2	274.0	277.6	281.7	286.6	293.0	298.9	303.8	309.3	315.8	321.3
165°	277.8	278.9	281.8	284.7	288.1	293.2	297.8	301.2	305.2	309.8	314.3
167.5°	282.4	282.9	285.1	286.7	289.3	293.1	296.4	298.5	301.1	304.3	307.6
170°	284.7	285.2	286.9	288.1	289.8	292.6	295.5	296.6	298.3	300.6	303.5
172.5°	286.9	287.0	288.3	289.0	290.2	292.2	294.6	294.8	295.6	297.4	299.8
175°	289.2	289.2	289.8	290.4	290.4	291.5	293.2	292.6	292.6	293.8	294.9
177.5°	290.4	289.9	290.4	290.4	290.4	290.8	291.7	290.8	290.8	291.3	291.7
180°	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4



TEST NUMBER: P332681

CATALOG NUMBER: SA4XXDIP-C1195D590U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	2031.5	2032.8	2038.5	2043.0	2044.3	2050.6	2051.3
5°	2210.0	2223.6	2249.9	2252.3	2256.3	2277.1	2261.1
7.5°	2419.2	2453.7	2476.7	2497.0	2504.3	2513.4	2511.5
10°	2553.3	2604.4	2630.0	2670.7	2672.3	2682.7	2676.3
12.5°	2688.1	2747.5	2794.1	2801.6	2835.8	2841.1	2850.0
15°	2879.1	2942.1	3006.8	3030.0	3077.1	3088.3	3105.8
17.5°	3058.6	3123.1	3168.4	3228.3	3247.6	3273.5	3255.9
20°	3156.9	3227.2	3284.7	3331.8	3351.7	3366.1	3364.5
22.5°	3216.3	3287.2	3333.8	3369.5	3388.1	3394.2	3393.9
25°	3253.5	3294.2	3308.6	3322.2	3301.4	3294.2	3297.4
27.5°	3150.1	3139.5	3102.0	3052.8	3001.7	2961.1	2939.1
30°	3007.6	2945.3	2888.7	2789.6	2738.6	2708.2	2681.1
32.5°	2805.8	2707.1	2598.0	2507.3	2449.2	2404.2	2397.5
35°	2459.9	2311.4	2178.1	2067.1	2009.6	1960.9	1949.7
37.5°	2091.4	1937.1	1817.0	1719.3	1657.5	1623.2	1591.1
40°	1846.7	1714.2	1596.0	1513.0	1465.9	1441.1	1421.2
42.5°	1658.3	1537.3	1419.7	1356.5	1313.9	1298.7	1287.0
45°	1398.0	1285.4	1204.0	1156.1	1131.3	1105.8	1093.8
47.5°	1189.6	1098.0	1044.3	1003.6	977.1	961.9	954.3
50°	1071.5	996.4	948.5	917.4	893.4	881.4	875.1
52.5°	966.7	905.1	864.8	840.1	823.8	815.0	812.5
55°	832.7	785.6	760.1	738.5	726.6	718.6	715.4
57.5°	723.8	687.6	666.8	649.1	644.5	637.8	635.5
60°	652.3	624.4	606.8	594.8	590.8	582.8	584.4
62.5°	589.1	566.2	551.2	544.4	539.1	532.4	534.6
65°	498.2	481.4	473.5	467.1	460.7	456.7	459.9
67.5°	418.0	406.6	395.7	392.0	388.8	388.2	384.8
70°	365.7	356.1	346.5	344.1	344.1	340.9	340.1
72.5°	315.2	308.2	301.8	300.0	297.5	298.8	295.4
75°	243.5	237.9	235.5	233.1	232.3	232.3	229.9
77.5°	180.0	175.8	172.0	172.0	169.1	168.0	167.7
80°	136.5	134.9	131.7	131.7	130.1	130.9	129.3
82.5°	102.7	100.4	99.8	98.5	96.3	96.4	94.9
85°	55.1	52.7	51.9	49.5	47.9	49.5	47.9
87.5°	21.3	20.8	20.2	19.0	18.5	18.4	16.4
90°	10.8	11.4	11.4	12.0	12.5	12.0	12.0
92.5°	84.3	67.1	55.7	48.9	45.9	43.9	43.9
95°	334.3	257.8	202.5	174.6	156.9	146.6	139.2
97.5°	591.7	535.9	476.3	435.4	401.0	383.9	372.0
100°	699.4	671.4	629.2	579.6	544.8	527.7	523.1
102.5°	741.4	749.5	731.9	701.4	676.2	658.2	654.5
105°	737.6	794.1	817.5	818.6	814.0	806.0	802.6
107.5°	678.8	758.4	809.2	837.4	850.4	856.1	857.6
110°	633.2	715.9	778.7	819.2	843.1	853.4	858.5



TEST NUMBER: P332681

CATALOG NUMBER: SA4XXDIP-C1195D590U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	593.0	671.2	733.9	779.9	808.9	823.3	831.6
115°	547.1	613.8	668.6	713.6	747.9	766.1	770.7
117.5°	520.8	573.3	619.7	658.2	686.9	705.4	709.0
120°	509.4	555.0	595.5	628.1	653.2	668.0	674.3
122.5°	502.1	543.6	579.1	606.6	628.1	640.6	646.9
125°	490.6	529.9	561.3	584.1	600.7	611.5	614.9
127.5°	477.0	516.3	546.0	569.0	583.7	592.8	596.2
130°	466.1	504.8	535.1	558.5	572.7	581.9	585.3
132.5°	453.7	491.6	521.8	544.8	560.9	569.5	573.0
135°	435.3	470.0	498.6	521.4	537.4	546.5	549.9
137.5°	417.6	446.9	472.7	494.0	509.8	517.3	521.4
140°	406.2	431.8	455.8	475.8	488.3	496.3	500.9
142.5°	396.6	418.6	439.4	457.0	468.7	475.8	478.9
145°	383.3	400.5	416.4	430.7	440.4	446.1	448.9
147.5°	371.9	385.6	398.2	408.7	417.0	421.3	422.4
150°	365.1	376.5	386.8	395.9	403.3	406.7	407.3
152.5°	358.2	368.7	377.2	384.9	391.0	393.0	393.6
155°	348.5	357.1	363.9	369.7	374.2	375.9	375.9
157.5°	339.0	346.1	351.6	356.0	359.4	360.4	360.4
160°	332.6	338.8	343.4	346.8	350.3	350.8	350.8
162.5°	326.6	331.5	335.7	338.2	341.6	342.2	341.7
165°	317.7	321.7	324.6	326.9	329.1	328.6	328.0
167.5°	310.2	313.4	315.1	316.3	317.7	317.6	317.2
170°	305.2	307.5	309.2	310.3	310.9	310.3	310.3
172.5°	301.1	302.5	303.7	304.4	305.0	304.4	303.5
175°	295.5	296.6	296.6	296.6	297.8	296.6	295.5
177.5°	292.2	292.2	292.6	292.2	292.6	291.7	290.8
180°	290.4	290.4	290.4	290.4	290.4	290.4	290.4

(END OF REPORT)