

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: P332680

Luminaire Tested: **SA4XXDIP-C1195D590U835-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332680
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
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-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

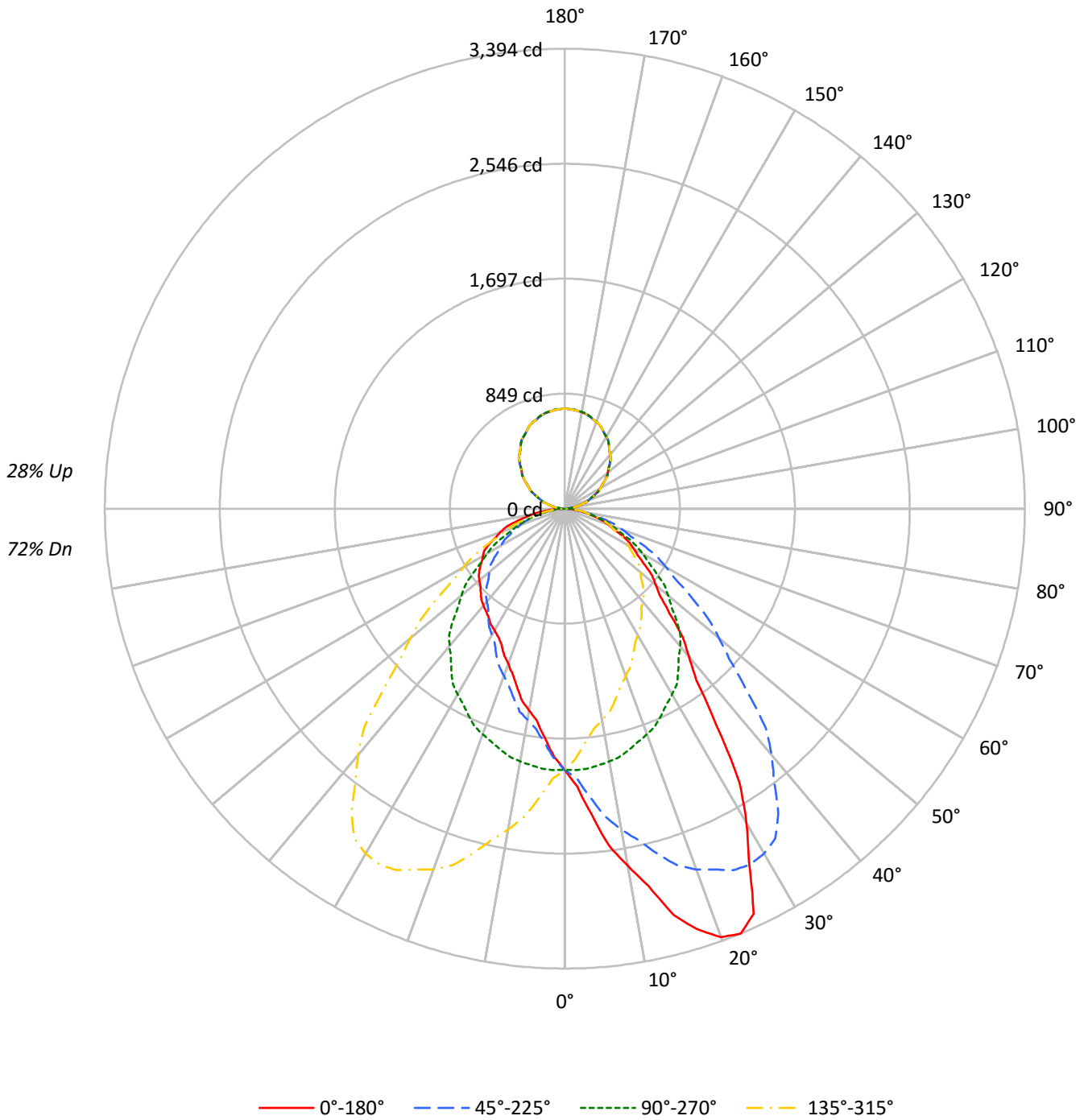
Lumens per Lamp: N/A
Luminaire Lumens: 7365.9 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

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



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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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	77	77	77	77	77	77	72	
1	103	99	95	91	98	94	90	87	85	82	79	76	74	72	68	67	65	65	65	65	61	
2	94	87	80	75	89	82	77	72	74	70	66	67	64	61	60	58	55	55	55	55	52	
3	86	76	69	63	81	73	66	61	66	61	56	60	55	52	54	50	48	48	48	48	44	
4	79	68	60	54	75	65	58	52	59	53	48	53	49	45	48	45	41	41	41	41	38	
5	73	61	53	46	69	58	51	45	53	47	42	48	43	39	44	40	36	36	36	36	34	
6	67	55	47	41	64	52	45	39	48	42	37	44	38	34	40	35	32	32	32	32	30	
7	62	50	42	36	59	48	40	35	44	37	33	40	35	31	36	32	29	29	29	29	26	
8	58	45	37	32	55	44	36	31	40	34	29	37	31	28	34	29	26	26	26	26	24	
9	54	42	34	29	51	40	33	28	37	31	26	34	29	25	31	27	23	23	23	23	21	
10	51	38	31	26	48	37	30	25	34	28	24	31	26	23	29	24	21	21	21	21	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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.8	2.5
10°-20°	578.8	7.9
20°-30°	917.8	12.5
30°-40°	1021.3	13.9
40°-50°	929.7	12.6
50°-60°	759.7	10.3
60°-70°	542.4	7.4
70°-80°	298.7	4.1
80°-90°	83.7	1.1
90°-100°	48.6	0.7
100°-110°	144.1	2.0
110°-120°	244.6	3.3
120°-130°	322.5	4.4
130°-140°	362.2	4.9
140°-150°	355.9	4.8
150°-160°	299.3	4.1
160°-170°	199.1	2.7
170°-180°	69.7	0.9
0°-30°	1684.3	22.9
0°-40°	2705.6	36.7
0°-60°	4395.1	59.7
0°-90°	5319.9	72.2
90°-120°	437.3	5.9
90°-150°	1477.8	20.1
90°-180°	2046.0	27.8
0°-180°	7365.9	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°	17	2	17	2	17	11
95°	45	34	45	34	45	47
105°	139	133	139	133	139	147
115°	246	249	246	249	246	244
125°	359	362	359	362	359	321
135°	468	467	468	467	468	361
145°	568	568	568	568	568	355
155°	650	650	650	650	650	299
165°	706	708	706	708	706	199
175°	733	736	733	736	733	70
180°	738	738	738	738	738	



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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°	17.5	19.3	19.3	19.9	21.1	21.6	22.1	21.3	23.7	24.2	26.6
90°	17.1	16.9	16.6	16.4	16.1	15.6	14.8	14.1	13.3	12.5	11.5
92.5°	25.3	25.2	25.0	24.9	24.7	24.4	24.0	23.5	23.0	22.6	21.9
95°	45.1	45.1	45.1	45.1	45.1	44.9	44.5	44.1	43.7	43.3	42.5
97.5°	70.6	70.6	70.6	70.6	70.6	70.4	69.9	69.5	69.0	68.6	67.5
100°	88.4	88.4	88.4	88.4	88.4	88.3	88.0	87.8	87.5	87.3	86.1
102.5°	108.5	108.4	108.3	108.2	108.1	107.8	107.5	107.1	106.8	106.4	105.4
105°	139.2	138.8	138.4	138.0	137.6	137.3	136.9	136.5	136.1	135.7	135.2
107.5°	169.1	169.1	169.1	169.1	169.2	169.0	168.6	168.3	167.9	167.6	167.5
110°	190.5	190.1	189.7	189.4	189.0	188.9	189.2	189.4	189.7	189.9	190.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	212.4	212.3	212.2	212.2	212.1	212.1	212.1	212.2	212.2	212.3	212.5
115°	246.4	246.5	246.6	246.8	246.9	247.0	247.2	247.3	247.4	247.5	247.8
117.5°	278.8	279.0	279.3	279.5	279.8	280.1	280.6	281.0	281.4	281.9	282.0
120°	303.4	303.2	302.9	302.7	302.4	302.6	303.2	303.9	304.5	305.1	305.5
122.5°	324.0	324.4	324.9	325.3	325.8	326.2	326.7	327.1	327.5	328.0	328.1
125°	359.3	359.6	359.8	360.1	360.3	360.6	360.8	361.1	361.3	361.6	361.7
127.5°	392.1	392.3	392.5	392.7	392.9	393.1	393.4	393.6	393.9	394.1	394.3
130°	413.5	414.0	414.5	415.0	415.5	415.9	416.2	416.4	416.7	416.9	416.9
132.5°	436.3	436.5	436.7	436.9	437.1	437.4	437.6	437.9	438.1	438.4	438.5
135°	467.7	468.1	468.4	468.8	469.2	469.5	469.8	470.0	470.3	470.5	470.5
137.5°	500.7	500.6	500.5	500.4	500.3	500.5	500.8	501.1	501.5	501.8	501.6
140°	520.7	520.9	521.0	521.1	521.2	521.4	521.5	521.6	521.7	521.9	521.9
142.5°	540.8	540.8	540.9	540.9	540.9	540.9	541.0	541.0	541.0	541.0	541.1
145°	568.1	568.4	568.8	569.2	569.6	569.8	570.0	570.1	570.2	570.3	570.2
147.5°	595.7	595.8	595.9	596.1	596.2	596.3	596.4	596.5	596.6	596.7	596.8
150°	612.6	612.7	612.8	612.9	613.1	613.1	613.1	613.1	613.1	613.1	613.1
152.5°	628.1	628.4	628.7	629.1	629.4	629.4	629.1	628.8	628.5	628.2	628.1
155°	649.6	650.1	650.6	651.1	651.7	651.7	651.1	650.6	650.1	649.6	649.8
157.5°	668.9	669.3	669.8	670.2	670.6	670.7	670.3	669.9	669.5	669.1	669.2
160°	679.9	680.5	681.1	681.8	682.4	682.5	682.1	681.8	681.4	681.0	681.1
162.5°	691.3	691.9	692.5	693.2	693.8	693.8	693.1	692.4	691.7	691.0	691.2
165°	706.1	706.6	707.1	707.6	708.1	708.0	707.2	706.5	705.7	705.0	705.2
167.5°	716.7	717.5	718.3	719.1	719.8	719.9	719.1	718.3	717.6	716.8	716.8
170°	722.6	723.5	724.4	725.3	726.2	726.2	725.5	724.7	724.0	723.2	723.1
172.5°	727.7	728.5	729.4	730.3	731.2	731.2	730.4	729.5	728.6	727.8	727.7
175°	732.9	733.8	734.7	735.6	736.4	736.4	735.6	734.7	733.8	732.9	733.0
177.5°	735.6	736.4	737.3	738.1	738.9	738.9	738.2	737.5	736.8	736.1	736.1
180°	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5



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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°	26.4	26.8	26.0	23.2	21.0	18.8	17.9	16.9	17.9	18.8	19.7
90°	10.5	9.5	8.5	7.3	5.9	4.5	3.1	1.7	3.1	4.5	5.9
92.5°	21.2	20.5	19.7	18.6	17.0	15.4	13.8	12.2	13.8	15.4	17.0
95°	41.6	40.7	39.8	38.8	37.6	36.5	35.4	34.2	35.4	36.5	37.6
97.5°	66.5	65.4	64.4	63.4	62.5	61.6	60.7	59.8	60.7	61.6	62.5
100°	85.0	83.8	82.7	81.9	81.4	80.9	80.4	79.8	80.4	80.9	81.4
102.5°	104.3	103.3	102.3	101.6	101.4	101.2	101.0	100.8	101.0	101.2	101.4
105°	134.7	134.2	133.7	133.4	133.3	133.1	133.0	132.9	133.0	133.1	133.3
107.5°	167.4	167.3	167.3	167.2	167.0	166.8	166.7	166.5	166.7	166.8	167.0
110°	190.2	190.3	190.4	190.4	190.1	189.9	189.6	189.4	189.6	189.9	190.1



TEST NUMBER: P332680

CATALOG NUMBER: SA4XXDIP-C1195D590U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	212.7	213.0	213.2	213.3	213.2	213.2	213.1	213.1	213.1	213.2	213.2
115°	248.0	248.3	248.5	248.7	248.7	248.7	248.7	248.7	248.7	248.7	248.7
117.5°	282.2	282.4	282.6	282.6	282.5	282.4	282.3	282.2	282.3	282.4	282.5
120°	305.9	306.3	306.7	306.6	306.1	305.6	305.1	304.6	305.1	305.6	306.1
122.5°	328.3	328.5	328.7	328.6	328.4	328.2	328.0	327.8	328.0	328.2	328.4
125°	361.9	362.0	362.1	362.2	362.2	362.2	362.2	362.2	362.2	362.2	362.2
127.5°	394.5	394.7	394.9	394.8	394.5	394.1	393.7	393.3	393.7	394.1	394.5
130°	416.9	416.9	416.9	416.7	416.4	416.0	415.6	415.2	415.6	416.0	416.4
132.5°	438.6	438.7	438.8	438.7	438.4	438.1	437.9	437.6	437.9	438.1	438.4
135°	470.5	470.5	470.5	470.2	469.4	468.6	467.9	467.1	467.9	468.6	469.4
137.5°	501.4	501.2	501.0	500.7	500.3	500.0	499.6	499.3	499.6	500.0	500.3
140°	521.9	521.9	521.9	521.7	521.5	521.2	521.0	520.7	521.0	521.2	521.5
142.5°	541.2	541.3	541.4	541.4	541.1	540.9	540.6	540.3	540.6	540.9	541.1
145°	570.1	570.0	569.8	569.5	569.0	568.5	568.0	567.5	568.0	568.5	569.0
147.5°	596.9	597.0	597.1	596.9	596.2	595.6	595.0	594.4	595.0	595.6	596.2
150°	613.1	613.1	613.1	612.9	612.4	611.9	611.4	610.8	611.4	611.9	612.4
152.5°	628.0	627.9	627.8	627.6	627.3	627.0	626.7	626.4	626.7	627.0	627.3
155°	649.9	650.0	650.1	650.2	650.2	650.2	650.2	650.2	650.2	650.2	650.2
157.5°	669.2	669.2	669.2	669.4	669.6	669.8	670.0	670.3	670.0	669.8	669.6
160°	681.3	681.4	681.5	681.6	681.8	681.9	682.0	682.1	682.0	681.9	681.8
162.5°	691.3	691.4	691.5	691.8	692.1	692.4	692.8	693.1	692.8	692.4	692.1
165°	705.5	705.7	706.0	706.3	706.7	707.0	707.4	707.8	707.4	707.0	706.7
167.5°	716.8	716.7	716.7	717.0	717.5	718.0	718.6	719.1	718.6	718.0	717.5
170°	722.9	722.8	722.7	722.9	723.6	724.2	724.9	725.5	724.9	724.2	723.6
172.5°	727.7	727.7	727.7	727.9	728.5	729.0	729.5	730.0	729.5	729.0	728.5
175°	733.2	733.3	733.4	733.8	734.4	735.1	735.7	736.3	735.7	735.1	734.4
177.5°	736.1	736.1	736.1	736.3	736.9	737.4	737.9	738.4	737.9	737.4	736.9
180°	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5



TEST NUMBER: P332680

CATALOG NUMBER: SA4XXDIP-C1195D590U835-4F0-1E-UDD-A1

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°	21.9	22.1	24.9	26.4	28.5	31.9	33.3	40.5	43.2	46.6	52.4
90°	7.3	8.5	9.5	10.5	11.5	12.5	13.3	14.1	14.8	15.6	16.1
92.5°	18.6	19.7	20.5	21.2	21.9	22.6	23.0	23.5	24.0	24.4	24.7
95°	38.8	39.8	40.7	41.6	42.5	43.3	43.7	44.1	44.5	44.9	45.1
97.5°	63.4	64.4	65.4	66.5	67.5	68.6	69.0	69.5	69.9	70.4	70.6
100°	81.9	82.7	83.8	85.0	86.1	87.3	87.5	87.8	88.0	88.3	88.4
102.5°	101.6	102.3	103.3	104.3	105.4	106.4	106.8	107.1	107.5	107.8	108.1
105°	133.4	133.7	134.2	134.7	135.2	135.7	136.1	136.5	136.9	137.3	137.6
107.5°	167.2	167.3	167.3	167.4	167.5	167.6	167.9	168.3	168.6	169.0	169.2
110°	190.4	190.4	190.3	190.2	190.1	189.9	189.7	189.4	189.2	188.9	189.0



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CATALOG NUMBER: SA4XXDIP-C1195D590U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	213.3	213.2	213.0	212.7	212.5	212.3	212.2	212.2	212.1	212.1	212.1
115°	248.7	248.5	248.3	248.0	247.8	247.5	247.4	247.3	247.2	247.0	246.9
117.5°	282.6	282.6	282.4	282.2	282.0	281.9	281.4	281.0	280.6	280.1	279.8
120°	306.6	306.7	306.3	305.9	305.5	305.1	304.5	303.9	303.2	302.6	302.4
122.5°	328.6	328.7	328.5	328.3	328.1	328.0	327.5	327.1	326.7	326.2	325.8
125°	362.2	362.1	362.0	361.9	361.7	361.6	361.3	361.1	360.8	360.6	360.3
127.5°	394.8	394.9	394.7	394.5	394.3	394.1	393.9	393.6	393.4	393.1	392.9
130°	416.7	416.9	416.9	416.9	416.9	416.9	416.7	416.4	416.2	415.9	415.5
132.5°	438.7	438.8	438.7	438.6	438.5	438.4	438.1	437.9	437.6	437.4	437.1
135°	470.2	470.5	470.5	470.5	470.5	470.5	470.3	470.0	469.8	469.5	469.2
137.5°	500.7	501.0	501.2	501.4	501.6	501.8	501.5	501.1	500.8	500.5	500.3
140°	521.7	521.9	521.9	521.9	521.9	521.9	521.7	521.6	521.5	521.4	521.2
142.5°	541.4	541.4	541.3	541.2	541.1	541.0	541.0	541.0	541.0	540.9	540.9
145°	569.5	569.8	570.0	570.1	570.2	570.3	570.2	570.1	570.0	569.8	569.6
147.5°	596.9	597.1	597.0	596.9	596.8	596.7	596.6	596.5	596.4	596.3	596.2
150°	612.9	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1
152.5°	627.6	627.8	627.9	628.0	628.1	628.2	628.5	628.8	629.1	629.4	629.4
155°	650.2	650.1	650.0	649.9	649.8	649.6	650.1	650.6	651.1	651.7	651.7
157.5°	669.4	669.2	669.2	669.2	669.2	669.1	669.5	669.9	670.3	670.7	670.6
160°	681.6	681.5	681.4	681.3	681.1	681.0	681.4	681.8	682.1	682.5	682.4
162.5°	691.8	691.5	691.4	691.3	691.2	691.0	691.7	692.4	693.1	693.8	693.8
165°	706.3	706.0	705.7	705.5	705.2	705.0	705.7	706.5	707.2	708.0	708.1
167.5°	717.0	716.7	716.7	716.8	716.8	716.8	717.6	718.3	719.1	719.9	719.8
170°	722.9	722.7	722.8	722.9	723.1	723.2	724.0	724.7	725.5	726.2	726.2
172.5°	727.9	727.7	727.7	727.7	727.7	727.8	728.6	729.5	730.4	731.2	731.2
175°	733.8	733.4	733.3	733.2	733.0	732.9	733.8	734.7	735.6	736.4	736.4
177.5°	736.3	736.1	736.1	736.1	736.1	736.1	736.8	737.5	738.2	738.9	738.9
180°	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5



TEST NUMBER: P332680

CATALOG NUMBER: SA4XXDIP-C1195D590U835-4F0-1E-UDD-A1

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°	54.4	55.1	57.0	58.4	57.0	55.1	54.4	52.4	46.6	43.2	40.5
90°	16.4	16.6	16.9	17.1	16.9	16.6	16.4	16.1	15.6	14.8	14.1
92.5°	24.9	25.0	25.2	25.3	25.2	25.0	24.9	24.7	24.4	24.0	23.5
95°	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	44.9	44.5	44.1
97.5°	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.4	69.9	69.5
100°	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.3	88.0	87.8
102.5°	108.2	108.3	108.4	108.5	108.4	108.3	108.2	108.1	107.8	107.5	107.1
105°	138.0	138.4	138.8	139.2	138.8	138.4	138.0	137.6	137.3	136.9	136.5
107.5°	169.1	169.1	169.1	169.1	169.1	169.1	169.1	169.2	169.0	168.6	168.3
110°	189.4	189.7	190.1	190.5	190.1	189.7	189.4	189.0	188.9	189.2	189.4



TEST NUMBER: P332680

CATALOG NUMBER: SA4XXDIP-C1195D590U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	212.2	212.2	212.3	212.4	212.3	212.2	212.2	212.1	212.1	212.1	212.2
115°	246.8	246.6	246.5	246.4	246.5	246.6	246.8	246.9	247.0	247.2	247.3
117.5°	279.5	279.3	279.0	278.8	279.0	279.3	279.5	279.8	280.1	280.6	281.0
120°	302.7	302.9	303.2	303.4	303.2	302.9	302.7	302.4	302.6	303.2	303.9
122.5°	325.3	324.9	324.4	324.0	324.4	324.9	325.3	325.8	326.2	326.7	327.1
125°	360.1	359.8	359.6	359.3	359.6	359.8	360.1	360.3	360.6	360.8	361.1
127.5°	392.7	392.5	392.3	392.1	392.3	392.5	392.7	392.9	393.1	393.4	393.6
130°	415.0	414.5	414.0	413.5	414.0	414.5	415.0	415.5	415.9	416.2	416.4
132.5°	436.9	436.7	436.5	436.3	436.5	436.7	436.9	437.1	437.4	437.6	437.9
135°	468.8	468.4	468.1	467.7	468.1	468.4	468.8	469.2	469.5	469.8	470.0
137.5°	500.4	500.5	500.6	500.7	500.6	500.5	500.4	500.3	500.5	500.8	501.1
140°	521.1	521.0	520.9	520.7	520.9	521.0	521.1	521.2	521.4	521.5	521.6
142.5°	540.9	540.9	540.8	540.8	540.8	540.9	540.9	540.9	540.9	541.0	541.0
145°	569.2	568.8	568.4	568.1	568.4	568.8	569.2	569.6	569.8	570.0	570.1
147.5°	596.1	595.9	595.8	595.7	595.8	595.9	596.1	596.2	596.3	596.4	596.5
150°	612.9	612.8	612.7	612.6	612.7	612.8	612.9	613.1	613.1	613.1	613.1
152.5°	629.1	628.7	628.4	628.1	628.4	628.7	629.1	629.4	629.4	629.1	628.8
155°	651.1	650.6	650.1	649.6	650.1	650.6	651.1	651.7	651.7	651.1	650.6
157.5°	670.2	669.8	669.3	668.9	669.3	669.8	670.2	670.6	670.7	670.3	669.9
160°	681.8	681.1	680.5	679.9	680.5	681.1	681.8	682.4	682.5	682.1	681.8
162.5°	693.2	692.5	691.9	691.3	691.9	692.5	693.2	693.8	693.8	693.1	692.4
165°	707.6	707.1	706.6	706.1	706.6	707.1	707.6	708.1	708.0	707.2	706.5
167.5°	719.1	718.3	717.5	716.7	717.5	718.3	719.1	719.8	719.9	719.1	718.3
170°	725.3	724.4	723.5	722.6	723.5	724.4	725.3	726.2	726.2	725.5	724.7
172.5°	730.3	729.4	728.5	727.7	728.5	729.4	730.3	731.2	731.2	730.4	729.5
175°	735.6	734.7	733.8	732.9	733.8	734.7	735.6	736.4	736.4	735.6	734.7
177.5°	738.1	737.3	736.4	735.6	736.4	737.3	738.1	738.9	738.9	738.2	737.5
180°	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5



TEST NUMBER: P332680

CATALOG NUMBER: SA4XXDIP-C1195D590U835-4F0-1E-UDD-A1

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°	33.3	31.9	28.5	26.4	24.9	22.1	21.9	19.7	18.8	17.9	16.9
90°	13.3	12.5	11.5	10.5	9.5	8.5	7.3	5.9	4.5	3.1	1.7
92.5°	23.0	22.6	21.9	21.2	20.5	19.7	18.6	17.0	15.4	13.8	12.2
95°	43.7	43.3	42.5	41.6	40.7	39.8	38.8	37.6	36.5	35.4	34.2
97.5°	69.0	68.6	67.5	66.5	65.4	64.4	63.4	62.5	61.6	60.7	59.8
100°	87.5	87.3	86.1	85.0	83.8	82.7	81.9	81.4	80.9	80.4	79.8
102.5°	106.8	106.4	105.4	104.3	103.3	102.3	101.6	101.4	101.2	101.0	100.8
105°	136.1	135.7	135.2	134.7	134.2	133.7	133.4	133.3	133.1	133.0	132.9
107.5°	167.9	167.6	167.5	167.4	167.3	167.3	167.2	167.0	166.8	166.7	166.5
110°	189.7	189.9	190.1	190.2	190.3	190.4	190.4	190.1	189.9	189.6	189.4



TEST NUMBER: P332680

CATALOG NUMBER: SA4XXDIP-C1195D590U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	212.2	212.3	212.5	212.7	213.0	213.2	213.3	213.2	213.2	213.1	213.1
115°	247.4	247.5	247.8	248.0	248.3	248.5	248.7	248.7	248.7	248.7	248.7
117.5°	281.4	281.9	282.0	282.2	282.4	282.6	282.6	282.5	282.4	282.3	282.2
120°	304.5	305.1	305.5	305.9	306.3	306.7	306.6	306.1	305.6	305.1	304.6
122.5°	327.5	328.0	328.1	328.3	328.5	328.7	328.6	328.4	328.2	328.0	327.8
125°	361.3	361.6	361.7	361.9	362.0	362.1	362.2	362.2	362.2	362.2	362.2
127.5°	393.9	394.1	394.3	394.5	394.7	394.9	394.8	394.5	394.1	393.7	393.3
130°	416.7	416.9	416.9	416.9	416.9	416.9	416.7	416.4	416.0	415.6	415.2
132.5°	438.1	438.4	438.5	438.6	438.7	438.8	438.7	438.4	438.1	437.9	437.6
135°	470.3	470.5	470.5	470.5	470.5	470.5	470.2	469.4	468.6	467.9	467.1
137.5°	501.5	501.8	501.6	501.4	501.2	501.0	500.7	500.3	500.0	499.6	499.3
140°	521.7	521.9	521.9	521.9	521.9	521.9	521.7	521.5	521.2	521.0	520.7
142.5°	541.0	541.0	541.1	541.2	541.3	541.4	541.4	541.1	540.9	540.6	540.3
145°	570.2	570.3	570.2	570.1	570.0	569.8	569.5	569.0	568.5	568.0	567.5
147.5°	596.6	596.7	596.8	596.9	597.0	597.1	596.9	596.2	595.6	595.0	594.4
150°	613.1	613.1	613.1	613.1	613.1	613.1	612.9	612.4	611.9	611.4	610.8
152.5°	628.5	628.2	628.1	628.0	627.9	627.8	627.6	627.3	627.0	626.7	626.4
155°	650.1	649.6	649.8	649.9	650.0	650.1	650.2	650.2	650.2	650.2	650.2
157.5°	669.5	669.1	669.2	669.2	669.2	669.2	669.4	669.6	669.8	670.0	670.3
160°	681.4	681.0	681.1	681.3	681.4	681.5	681.6	681.8	681.9	682.0	682.1
162.5°	691.7	691.0	691.2	691.3	691.4	691.5	691.8	692.1	692.4	692.8	693.1
165°	705.7	705.0	705.2	705.5	705.7	706.0	706.3	706.7	707.0	707.4	707.8
167.5°	717.6	716.8	716.8	716.8	716.7	716.7	717.0	717.5	718.0	718.6	719.1
170°	724.0	723.2	723.1	722.9	722.8	722.7	722.9	723.6	724.2	724.9	725.5
172.5°	728.6	727.8	727.7	727.7	727.7	727.7	727.9	728.5	729.0	729.5	730.0
175°	733.8	732.9	733.0	733.2	733.3	733.4	733.8	734.4	735.1	735.7	736.3
177.5°	736.8	736.1	736.1	736.1	736.1	736.1	736.3	736.9	737.4	737.9	738.4
180°	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5



TEST NUMBER: P332680

CATALOG NUMBER: SA4XXDIP-C1195D590U835-4F0-1E-UDD-A1

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°	17.9	18.8	21.0	23.2	26.0	26.8	26.4	26.6	24.2	23.7	21.3
90°	3.1	4.5	5.9	7.3	8.5	9.5	10.5	11.5	12.5	13.3	14.1
92.5°	13.8	15.4	17.0	18.6	19.7	20.5	21.2	21.9	22.6	23.0	23.5
95°	35.4	36.5	37.6	38.8	39.8	40.7	41.6	42.5	43.3	43.7	44.1
97.5°	60.7	61.6	62.5	63.4	64.4	65.4	66.5	67.5	68.6	69.0	69.5
100°	80.4	80.9	81.4	81.9	82.7	83.8	85.0	86.1	87.3	87.5	87.8
102.5°	101.0	101.2	101.4	101.6	102.3	103.3	104.3	105.4	106.4	106.8	107.1
105°	133.0	133.1	133.3	133.4	133.7	134.2	134.7	135.2	135.7	136.1	136.5
107.5°	166.7	166.8	167.0	167.2	167.3	167.3	167.4	167.5	167.6	167.9	168.3
110°	189.6	189.9	190.1	190.4	190.4	190.3	190.2	190.1	189.9	189.7	189.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	213.1	213.2	213.2	213.3	213.2	213.0	212.7	212.5	212.3	212.2	212.2
115°	248.7	248.7	248.7	248.7	248.5	248.3	248.0	247.8	247.5	247.4	247.3
117.5°	282.3	282.4	282.5	282.6	282.6	282.4	282.2	282.0	281.9	281.4	281.0
120°	305.1	305.6	306.1	306.6	306.7	306.3	305.9	305.5	305.1	304.5	303.9
122.5°	328.0	328.2	328.4	328.6	328.7	328.5	328.3	328.1	328.0	327.5	327.1
125°	362.2	362.2	362.2	362.2	362.1	362.0	361.9	361.7	361.6	361.3	361.1
127.5°	393.7	394.1	394.5	394.8	394.9	394.7	394.5	394.3	394.1	393.9	393.6
130°	415.6	416.0	416.4	416.7	416.9	416.9	416.9	416.9	416.9	416.7	416.4
132.5°	437.9	438.1	438.4	438.7	438.8	438.7	438.6	438.5	438.4	438.1	437.9
135°	467.9	468.6	469.4	470.2	470.5	470.5	470.5	470.5	470.5	470.3	470.0
137.5°	499.6	500.0	500.3	500.7	501.0	501.2	501.4	501.6	501.8	501.5	501.1
140°	521.0	521.2	521.5	521.7	521.9	521.9	521.9	521.9	521.9	521.7	521.6
142.5°	540.6	540.9	541.1	541.4	541.4	541.3	541.2	541.1	541.0	541.0	541.0
145°	568.0	568.5	569.0	569.5	569.8	570.0	570.1	570.2	570.3	570.2	570.1
147.5°	595.0	595.6	596.2	596.9	597.1	597.0	596.9	596.8	596.7	596.6	596.5
150°	611.4	611.9	612.4	612.9	613.1	613.1	613.1	613.1	613.1	613.1	613.1
152.5°	626.7	627.0	627.3	627.6	627.8	627.9	628.0	628.1	628.2	628.5	628.8
155°	650.2	650.2	650.2	650.2	650.1	650.0	649.9	649.8	649.6	650.1	650.6
157.5°	670.0	669.8	669.6	669.4	669.2	669.2	669.2	669.2	669.1	669.5	669.9
160°	682.0	681.9	681.8	681.6	681.5	681.4	681.3	681.1	681.0	681.4	681.8
162.5°	692.8	692.4	692.1	691.8	691.5	691.4	691.3	691.2	691.0	691.7	692.4
165°	707.4	707.0	706.7	706.3	706.0	705.7	705.5	705.2	705.0	705.7	706.5
167.5°	718.6	718.0	717.5	717.0	716.7	716.7	716.8	716.8	716.8	717.6	718.3
170°	724.9	724.2	723.6	722.9	722.7	722.8	722.9	723.1	723.2	724.0	724.7
172.5°	729.5	729.0	728.5	727.9	727.7	727.7	727.7	727.7	727.8	728.6	729.5
175°	735.7	735.1	734.4	733.8	733.4	733.3	733.2	733.0	732.9	733.8	734.7
177.5°	737.9	737.4	736.9	736.3	736.1	736.1	736.1	736.1	736.1	736.8	737.5
180°	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5



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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°	22.1	21.6	21.1	19.9	19.3	19.3	17.5
90°	14.8	15.6	16.1	16.4	16.6	16.9	17.1
92.5°	24.0	24.4	24.7	24.9	25.0	25.2	25.3
95°	44.5	44.9	45.1	45.1	45.1	45.1	45.1
97.5°	69.9	70.4	70.6	70.6	70.6	70.6	70.6
100°	88.0	88.3	88.4	88.4	88.4	88.4	88.4
102.5°	107.5	107.8	108.1	108.2	108.3	108.4	108.5
105°	136.9	137.3	137.6	138.0	138.4	138.8	139.2
107.5°	168.6	169.0	169.2	169.1	169.1	169.1	169.1
110°	189.2	188.9	189.0	189.4	189.7	190.1	190.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	212.1	212.1	212.1	212.2	212.2	212.3	212.4
115°	247.2	247.0	246.9	246.8	246.6	246.5	246.4
117.5°	280.6	280.1	279.8	279.5	279.3	279.0	278.8
120°	303.2	302.6	302.4	302.7	302.9	303.2	303.4
122.5°	326.7	326.2	325.8	325.3	324.9	324.4	324.0
125°	360.8	360.6	360.3	360.1	359.8	359.6	359.3
127.5°	393.4	393.1	392.9	392.7	392.5	392.3	392.1
130°	416.2	415.9	415.5	415.0	414.5	414.0	413.5
132.5°	437.6	437.4	437.1	436.9	436.7	436.5	436.3
135°	469.8	469.5	469.2	468.8	468.4	468.1	467.7
137.5°	500.8	500.5	500.3	500.4	500.5	500.6	500.7
140°	521.5	521.4	521.2	521.1	521.0	520.9	520.7
142.5°	541.0	540.9	540.9	540.9	540.9	540.8	540.8
145°	570.0	569.8	569.6	569.2	568.8	568.4	568.1
147.5°	596.4	596.3	596.2	596.1	595.9	595.8	595.7
150°	613.1	613.1	613.1	612.9	612.8	612.7	612.6
152.5°	629.1	629.4	629.4	629.1	628.7	628.4	628.1
155°	651.1	651.7	651.7	651.1	650.6	650.1	649.6
157.5°	670.3	670.7	670.6	670.2	669.8	669.3	668.9
160°	682.1	682.5	682.4	681.8	681.1	680.5	679.9
162.5°	693.1	693.8	693.8	693.2	692.5	691.9	691.3
165°	707.2	708.0	708.1	707.6	707.1	706.6	706.1
167.5°	719.1	719.9	719.8	719.1	718.3	717.5	716.7
170°	725.5	726.2	726.2	725.3	724.4	723.5	722.6
172.5°	730.4	731.2	731.2	730.3	729.4	728.5	727.7
175°	735.6	736.4	736.4	735.6	734.7	733.8	732.9
177.5°	738.2	738.9	738.9	738.1	737.3	736.4	735.6
180°	737.5	737.5	737.5	737.5	737.5	737.5	737.5

(END OF REPORT)