

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: P332992-935

Luminaire Tested: **SA4XXRDIP-C1195D590U935-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332992-935
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: SA4XXRDIP-C1195D590U935-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 590 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6076.4 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

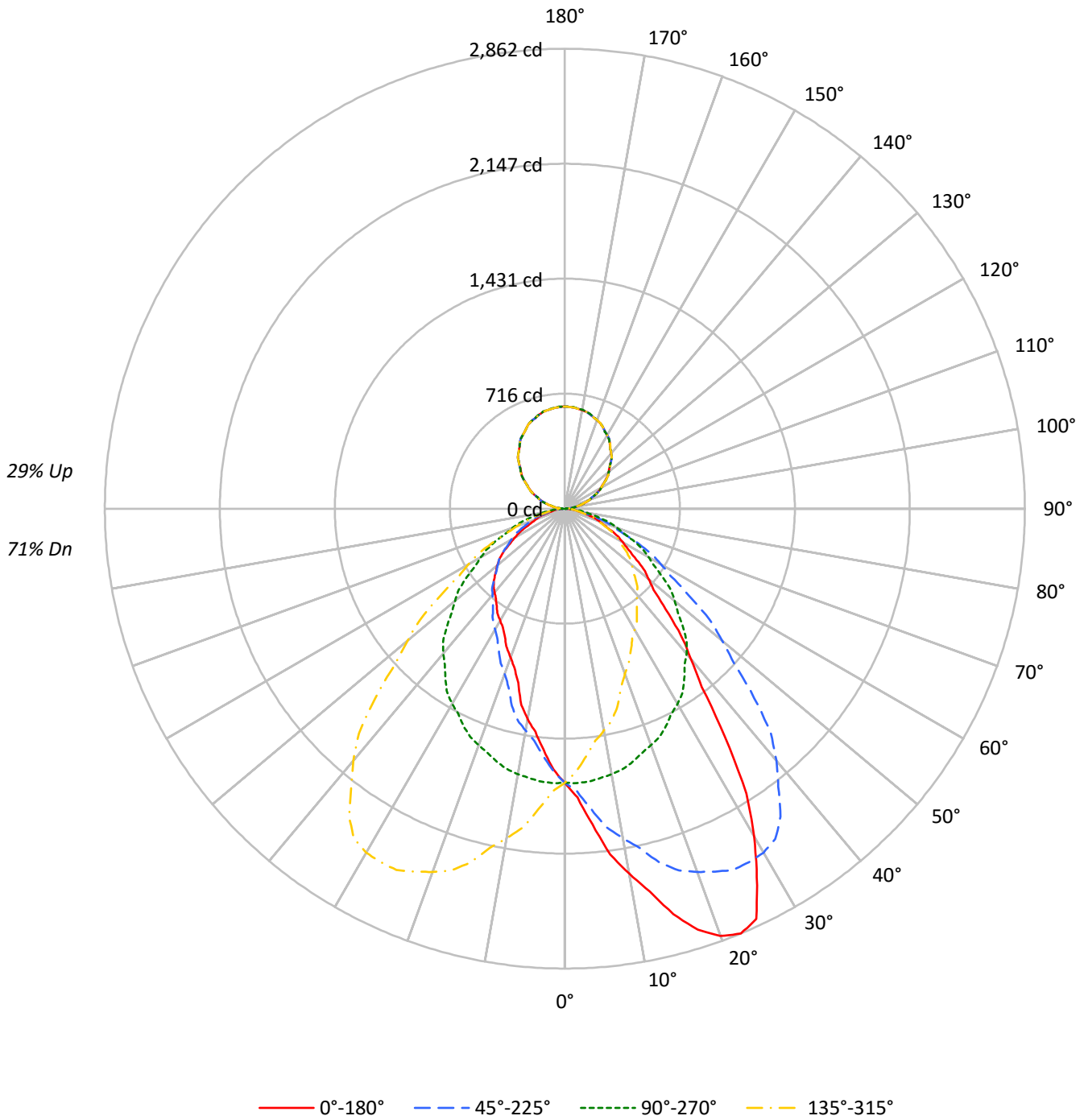
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332992-935

CATALOG NUMBER: SA4XXRDIP-C1195D590U935-4F0-1E-UDD-A1

Luminous Intensity Polar Plot





TEST NUMBER: P332992-935

CATALOG NUMBER: SA4XXRDIP-C1195D590U935-4F0-1E-UDD-A1

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	75	75	75	75	75	75	71	
1	103	99	95	92	98	94	91	88	84	82	80	76	74	72	68	66	65	65	65	65	61	
2	94	87	81	76	89	83	78	73	75	71	67	67	64	61	60	58	56	56	56	56	52	
3	87	77	70	64	82	74	67	62	67	61	57	60	56	53	54	51	48	48	48	48	45	
4	80	69	61	55	75	66	59	53	60	54	49	54	49	46	49	45	42	42	42	42	39	
5	73	62	54	48	69	59	52	46	54	48	43	49	44	40	44	40	37	37	37	37	34	
6	68	56	48	42	64	53	46	40	49	42	38	44	39	35	40	36	33	33	33	33	30	
7	63	51	43	37	60	48	41	36	44	38	34	40	35	31	37	33	29	29	29	29	27	
8	59	46	38	33	55	44	37	32	41	34	30	37	32	28	34	30	26	26	26	26	24	
9	55	42	35	30	52	41	34	29	37	31	27	34	29	26	31	27	24	24	24	24	22	
10	51	39	32	27	49	37	31	26	35	29	25	32	27	23	29	25	22	22	22	22	20	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13774	13774	13774	13774
5°	15977	13816	12211	13816
10°	18901	13755	10899	13755
15°	21833	13628	9365	13628
20°	24308	13454	8469	13454
25°	25093	13281	7863	13281
30°	21967	13073	7498	13073
35°	17100	12764	7276	12764
40°	12823	12410	7158	12410
45°	10123	11843	7096	11843
50°	8547	11189	6889	11189
55°	7450	10469	6521	10469
60°	6704	9723	5772	9723
65°	5910	8915	4963	8915
70°	5323	8080	4480	8080
75°	4460	7162	3815	7162
80°	3770	6104	3580	6104
85°	3186	4780	3186	4780



TEST NUMBER: P332992-935

CATALOG NUMBER: SA4XXRDIP-C1195D590U935-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.3	2.7
10°-20°	498.7	8.2
20°-30°	780.0	12.8
30°-40°	867.1	14.3
40°-50°	769.3	12.7
50°-60°	599.5	9.9
60°-70°	392.5	6.5
70°-80°	193.0	3.2
80°-90°	49.5	0.8
90°-100°	41.9	0.7
100°-110°	124.1	2.0
110°-120°	210.6	3.5
120°-130°	277.7	4.6
130°-140°	311.8	5.1
140°-150°	306.4	5.0
150°-160°	257.7	4.2
160°-170°	171.5	2.8
170°-180°	60.0	1.0
0°-30°	1444.0	23.8
0°-40°	2311.0	38.0
0°-60°	3679.8	60.6
0°-90°	4314.8	71.0
90°-120°	376.5	6.2
90°-150°	1272.4	20.9
90°-180°	1762.0	29.0
0°-180°	6076.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1706	1706	1706	1706	1706	
5°	1972	1705	1507	1705	1972	199
15°	2612	1631	1120	1631	2612	743
25°	2817	1491	883	1491	2817	1250
35°	1735	1295	738	1295	1735	1088
45°	887	1037	622	1037	887	702
55°	529	744	463	744	529	481
65°	309	467	260	467	309	311
75°	143	230	122	230	143	157
85°	34	52	34	52	34	39
90°	15	2	15	2	15	9
95°	39	29	39	29	39	40
105°	120	114	120	114	120	126
115°	212	214	212	214	212	210
125°	309	312	309	312	309	276
135°	403	402	403	402	403	311
145°	489	489	489	489	489	306
155°	559	560	559	560	559	257
165°	608	609	608	609	608	171
175°	631	634	631	634	631	60
180°	635	635	635	635	635	



TEST NUMBER: P332992-935

CATALOG NUMBER: SA4XXRDIP-C1195D590U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1799.7	1804.7	1799.7	1799.1	1793.6	1792.0	1789.8	1782.6	1769.4	1761.8	1763.4
5°	1971.5	1988.7	1979.1	1977.7	1962.6	1947.5	1937.9	1915.9	1892.5	1876.7	1863.6
7.5°	2170.3	2180.2	2174.2	2164.6	2140.1	2126.2	2103.9	2074.9	2033.0	2001.0	1971.7
10°	2305.7	2313.9	2311.2	2293.3	2275.4	2238.9	2218.4	2177.8	2124.9	2082.9	2043.8
12.5°	2438.7	2447.6	2423.4	2424.1	2390.3	2361.6	2328.9	2277.9	2216.7	2162.7	2113.6
15°	2612.3	2601.3	2601.3	2587.5	2549.7	2509.8	2476.1	2422.5	2345.5	2280.9	2212.9
17.5°	2748.1	2751.9	2746.2	2713.9	2684.2	2642.9	2581.2	2518.6	2447.1	2360.3	2290.8
20°	2829.5	2829.5	2823.3	2801.3	2762.8	2718.8	2652.1	2584.0	2493.3	2406.0	2327.6
22.5°	2862.5	2864.6	2857.4	2839.2	2804.6	2761.7	2704.9	2635.8	2542.3	2443.9	2346.9
25°	2817.1	2830.2	2831.5	2826.7	2816.4	2790.2	2741.5	2670.6	2586.8	2480.3	2375.8
27.5°	2586.4	2602.9	2617.4	2641.1	2672.7	2689.2	2691.4	2655.4	2582.2	2479.7	2374.6
30°	2356.5	2370.2	2414.9	2473.4	2518.8	2560.0	2595.7	2605.4	2564.1	2472.0	2361.3
32.5°	2101.4	2120.0	2164.7	2227.6	2303.2	2373.0	2453.3	2494.2	2493.2	2437.9	2335.5
35°	1735.1	1748.9	1790.1	1856.1	1946.8	2050.6	2177.8	2276.7	2344.2	2339.3	2276.7
37.5°	1399.3	1414.9	1456.6	1511.2	1599.2	1727.8	1850.8	1987.2	2111.8	2181.8	2160.9
40°	1216.8	1217.5	1258.0	1314.4	1396.9	1508.9	1643.0	1794.2	1933.0	2046.5	2068.5
42.5°	1072.6	1072.8	1099.6	1160.4	1219.8	1325.3	1453.2	1603.4	1765.9	1896.9	1955.2
45°	886.7	892.9	915.0	951.4	998.2	1087.5	1189.9	1329.5	1511.7	1667.0	1763.9
47.5°	751.0	760.0	774.0	803.7	841.0	900.5	985.2	1110.6	1258.8	1429.7	1567.6
50°	680.5	681.9	699.8	716.3	748.6	796.1	870.3	974.7	1110.9	1275.1	1428.5
52.5°	620.1	619.7	630.5	651.4	677.7	714.6	774.6	869.7	990.4	1137.7	1296.0
55°	529.3	532.8	541.0	557.5	577.5	603.6	651.0	722.5	817.3	943.1	1086.8
57.5°	460.3	462.1	468.6	475.5	493.9	512.8	548.5	598.1	678.1	781.1	915.0
60°	415.2	415.9	417.9	428.3	442.7	460.5	484.7	526.6	593.9	688.1	794.0
62.5°	371.2	372.5	375.7	383.1	394.3	406.7	431.9	465.5	521.3	601.8	697.2
65°	309.4	310.0	314.9	317.6	326.5	337.5	356.1	378.8	417.2	484.7	556.8
67.5°	258.5	258.5	258.7	262.4	268.6	276.0	287.1	305.2	334.2	375.7	439.3
70°	225.5	225.5	226.9	228.9	232.4	238.5	244.7	258.5	279.8	313.5	362.3
72.5°	194.7	195.2	196.6	197.0	198.8	203.9	208.4	217.2	233.1	258.5	297.9
75°	143.0	145.1	148.5	151.3	154.6	153.9	158.8	164.3	169.1	184.3	206.9
77.5°	106.4	105.3	105.7	108.1	108.5	109.2	112.6	116.8	120.5	127.6	135.7
80°	81.1	81.1	83.2	83.9	83.2	83.9	87.3	89.4	90.7	93.5	101.1
82.5°	61.3	62.4	61.7	62.4	62.9	63.5	66.4	66.8	68.2	69.3	72.5
85°	34.4	35.0	35.7	34.4	34.4	34.4	35.7	36.4	37.8	37.1	38.5
87.5°	15.1	14.5	15.0	14.9	15.4	14.8	15.2	16.2	15.0	15.3	15.2
90°	14.7	14.6	14.3	14.1	13.9	13.4	12.7	12.1	11.5	10.8	9.9
92.5°	21.8	21.7	21.5	21.4	21.3	21.0	20.7	20.2	19.8	19.5	18.9
95°	38.8	38.8	38.8	38.8	38.8	38.7	38.3	38.0	37.6	37.3	36.6
97.5°	60.8	60.8	60.8	60.8	60.8	60.6	60.2	59.8	59.4	59.1	58.1
100°	76.1	76.1	76.1	76.1	76.1	76.0	75.8	75.6	75.3	75.2	74.1
102.5°	93.4	93.3	93.2	93.2	93.1	92.8	92.6	92.2	92.0	91.6	90.7
105°	119.9	119.5	119.2	118.8	118.5	118.2	117.9	117.5	117.2	116.8	116.4
107.5°	145.6	145.6	145.6	145.6	145.7	145.5	145.2	144.9	144.6	144.3	144.2
110°	164.0	163.7	163.3	163.1	162.7	162.6	162.9	163.1	163.3	163.5	163.7



TEST NUMBER: P332992-935

CATALOG NUMBER: SA4XXRDIP-C1195D590U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	182.9	182.8	182.7	182.7	182.6	182.6	182.6	182.7	182.7	182.8	183.0
115°	212.2	212.2	212.3	212.5	212.6	212.7	212.8	212.9	213.0	213.1	213.4
117.5°	240.0	240.2	240.5	240.6	240.9	241.2	241.6	241.9	242.3	242.7	242.8
120°	261.2	261.1	260.8	260.6	260.4	260.5	261.1	261.7	262.2	262.7	263.0
122.5°	279.0	279.3	279.7	280.1	280.5	280.9	281.3	281.6	282.0	282.4	282.5
125°	309.4	309.6	309.8	310.0	310.2	310.5	310.6	310.9	311.1	311.3	311.4
127.5°	337.6	337.8	337.9	338.1	338.3	338.5	338.7	338.9	339.1	339.3	339.5
130°	356.0	356.5	356.9	357.3	357.7	358.1	358.3	358.5	358.8	359.0	359.0
132.5°	375.7	375.8	376.0	376.2	376.3	376.6	376.8	377.0	377.2	377.5	377.5
135°	402.7	403.0	403.3	403.6	404.0	404.2	404.5	404.7	404.9	405.1	405.1
137.5°	431.1	431.0	430.9	430.8	430.8	430.9	431.2	431.4	431.8	432.0	431.9
140°	448.3	448.5	448.6	448.7	448.8	448.9	449.0	449.1	449.2	449.4	449.4
142.5°	465.6	465.6	465.7	465.7	465.7	465.7	465.8	465.8	465.8	465.8	465.9
145°	489.1	489.4	489.7	490.1	490.4	490.6	490.8	490.9	490.9	491.0	490.9
147.5°	512.9	513.0	513.1	513.2	513.3	513.4	513.5	513.6	513.7	513.8	513.8
150°	527.4	527.5	527.6	527.7	527.9	527.9	527.9	527.9	527.9	527.9	527.9
152.5°	540.8	541.1	541.3	541.7	541.9	541.9	541.7	541.4	541.1	540.9	540.8
155°	559.3	559.7	560.2	560.6	561.1	561.1	560.6	560.2	559.7	559.3	559.5
157.5°	575.9	576.3	576.7	577.0	577.4	577.5	577.1	576.8	576.4	576.1	576.2
160°	585.4	585.9	586.4	587.0	587.5	587.6	587.3	587.0	586.7	586.3	586.4
162.5°	595.2	595.7	596.2	596.8	597.4	597.4	596.8	596.2	595.6	595.0	595.1
165°	608.0	608.4	608.8	609.2	609.7	609.6	608.9	608.3	607.6	607.0	607.2
167.5°	617.1	617.8	618.5	619.1	619.7	619.8	619.1	618.5	617.9	617.2	617.2
170°	622.2	622.9	623.7	624.5	625.3	625.3	624.7	624.0	623.4	622.7	622.6
172.5°	626.5	627.2	628.0	628.8	629.6	629.6	628.9	628.1	627.3	626.6	626.5
175°	631.0	631.8	632.6	633.4	634.0	634.0	633.4	632.6	631.8	631.0	631.1
177.5°	633.4	634.0	634.8	635.5	636.2	636.2	635.6	635.0	634.4	633.8	633.8
180°	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0



TEST NUMBER: P332992-935

CATALOG NUMBER: SA4XXRDIP-C1195D590U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1757.9	1750.2	1746.4	1737.6	1727.1	1721.6	1716.7	1709.5	1700.1	1690.2	1683.1
5°	1847.1	1830.7	1810.0	1785.3	1763.2	1742.0	1723.4	1704.9	1683.5	1661.6	1639.5
7.5°	1938.7	1906.3	1871.2	1830.7	1791.1	1755.3	1722.3	1690.7	1654.9	1622.9	1593.7
10°	2002.5	1958.5	1909.7	1858.1	1806.6	1761.9	1717.9	1678.0	1634.0	1594.8	1561.9
12.5°	2054.2	2002.5	1943.8	1879.6	1817.6	1763.5	1713.0	1661.0	1610.9	1568.5	1524.5
15°	2139.9	2069.2	1990.1	1913.1	1832.7	1759.1	1691.1	1630.6	1573.6	1513.7	1471.8
17.5°	2199.0	2115.0	2018.9	1926.3	1831.3	1744.6	1666.0	1594.1	1528.2	1467.1	1417.2
20°	2234.1	2141.3	2034.8	1929.6	1823.1	1730.3	1645.7	1566.0	1497.9	1431.9	1380.4
22.5°	2253.9	2151.2	2034.8	1924.7	1814.3	1713.7	1620.9	1537.9	1463.8	1397.8	1340.7
25°	2260.3	2150.3	2031.4	1904.9	1783.9	1677.3	1581.1	1491.0	1408.5	1342.6	1282.0
27.5°	2251.5	2121.9	2000.2	1870.4	1745.5	1633.2	1532.1	1437.5	1355.0	1284.1	1222.1
30°	2238.3	2099.4	1968.8	1834.1	1707.5	1599.7	1493.1	1402.4	1316.5	1242.9	1180.3
32.5°	2209.7	2071.9	1931.4	1793.4	1665.3	1554.0	1452.9	1361.7	1277.4	1202.2	1135.7
35°	2153.0	2013.4	1860.9	1719.2	1593.5	1478.0	1383.1	1295.1	1214.7	1134.3	1064.1
37.5°	2078.4	1935.8	1784.0	1628.9	1503.0	1394.0	1306.9	1224.3	1145.8	1072.4	994.7
40°	2008.0	1878.1	1721.3	1567.4	1438.1	1332.9	1252.5	1177.6	1098.5	1025.6	948.0
42.5°	1922.8	1812.1	1653.7	1499.2	1371.6	1270.2	1195.3	1122.1	1050.2	979.5	898.5
45°	1780.5	1696.6	1548.1	1399.6	1271.1	1170.7	1102.0	1037.3	974.0	906.7	830.4
47.5°	1617.4	1560.6	1432.4	1280.4	1161.5	1071.2	1004.8	951.9	898.5	831.1	764.1
50°	1504.1	1467.7	1343.9	1205.1	1091.7	1008.5	940.4	890.9	846.2	781.6	721.8
52.5°	1383.1	1363.7	1259.2	1126.4	1016.8	935.3	877.2	832.6	787.4	733.7	677.8
55°	1198.9	1209.2	1120.5	1005.7	902.6	833.9	780.9	743.8	705.3	660.0	616.6
57.5°	1010.6	1048.2	988.7	887.9	791.3	727.7	687.9	656.6	624.3	586.7	549.7
60°	897.8	929.4	895.7	807.0	722.5	663.4	626.3	602.2	569.9	535.5	507.3
62.5°	787.8	821.7	801.7	730.0	651.5	600.7	567.9	545.5	521.5	491.5	462.3
65°	649.6	671.6	662.0	612.5	556.8	513.5	483.3	466.7	444.8	422.8	396.7
67.5°	497.6	540.0	534.4	508.2	460.0	426.2	406.4	391.8	371.8	355.4	337.7
70°	409.1	448.2	447.5	426.2	400.1	368.4	354.7	342.3	324.4	308.7	294.2
72.5°	334.8	370.7	376.0	359.6	341.8	317.9	304.7	296.2	278.8	267.9	256.2
75°	234.5	260.5	267.4	267.4	259.2	246.8	235.1	229.6	217.2	207.6	200.7
77.5°	153.7	170.2	180.9	183.4	184.7	180.6	170.9	167.0	157.6	154.1	147.5
80°	108.6	119.6	132.0	136.1	139.6	138.2	134.1	131.3	122.3	118.9	116.1
82.5°	75.1	81.1	91.3	100.4	99.4	103.0	99.4	97.2	90.5	89.2	86.4
85°	39.2	39.9	41.2	47.4	50.9	52.3	53.0	51.6	49.5	49.5	44.7
87.5°	15.0	14.3	15.2	15.0	15.3	17.3	18.7	19.0	17.6	16.2	14.7
90°	9.0	8.2	7.3	6.3	5.1	3.9	2.7	1.5	2.7	3.9	5.1
92.5°	18.3	17.7	17.0	16.0	14.6	13.3	11.9	10.5	11.9	13.3	14.6
95°	35.8	35.0	34.3	33.4	32.4	31.4	30.5	29.4	30.5	31.4	32.4
97.5°	57.3	56.3	55.4	54.6	53.8	53.0	52.3	51.5	52.3	53.0	53.8
100°	73.2	72.2	71.2	70.5	70.1	69.7	69.2	68.7	69.2	69.7	70.1
102.5°	89.8	88.9	88.1	87.5	87.3	87.1	87.0	86.8	87.0	87.1	87.3
105°	116.0	115.5	115.1	114.9	114.8	114.6	114.5	114.4	114.5	114.6	114.8
107.5°	144.1	144.0	144.0	144.0	143.8	143.6	143.5	143.4	143.5	143.6	143.8
110°	163.8	163.8	163.9	163.9	163.7	163.5	163.2	163.1	163.2	163.5	163.7



TEST NUMBER: P332992-935

CATALOG NUMBER: SA4XXRDIP-C1195D590U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	183.1	183.4	183.6	183.7	183.6	183.6	183.5	183.5	183.5	183.6	183.6
115°	213.5	213.8	214.0	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1
117.5°	243.0	243.1	243.3	243.3	243.2	243.1	243.1	243.0	243.1	243.1	243.2
120°	263.4	263.7	264.1	264.0	263.6	263.1	262.7	262.3	262.7	263.1	263.6
122.5°	282.7	282.8	283.0	282.9	282.8	282.6	282.4	282.2	282.4	282.6	282.8
125°	311.6	311.7	311.8	311.9	311.9	311.9	311.9	311.9	311.9	311.9	311.9
127.5°	339.7	339.8	340.0	339.9	339.7	339.3	339.0	338.6	339.0	339.3	339.7
130°	359.0	359.0	359.0	358.8	358.5	358.2	357.8	357.5	357.8	358.2	358.5
132.5°	377.6	377.7	377.8	377.7	377.5	377.2	377.0	376.8	377.0	377.2	377.5
135°	405.1	405.1	405.1	404.8	404.2	403.5	402.9	402.2	402.9	403.5	404.2
137.5°	431.7	431.5	431.4	431.1	430.8	430.5	430.2	429.9	430.2	430.5	430.8
140°	449.4	449.4	449.4	449.2	449.0	448.8	448.6	448.3	448.6	448.8	449.0
142.5°	466.0	466.1	466.1	466.1	465.9	465.7	465.5	465.2	465.5	465.7	465.9
145°	490.9	490.8	490.6	490.3	489.9	489.5	489.0	488.6	489.0	489.5	489.9
147.5°	513.9	514.0	514.1	513.9	513.3	512.8	512.3	511.8	512.3	512.8	513.3
150°	527.9	527.9	527.9	527.7	527.3	526.8	526.4	525.9	526.4	526.8	527.3
152.5°	540.7	540.6	540.5	540.4	540.1	539.8	539.6	539.3	539.6	539.8	540.1
155°	559.6	559.6	559.7	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8
157.5°	576.2	576.2	576.2	576.4	576.5	576.7	576.9	577.1	576.9	576.7	576.5
160°	586.6	586.7	586.8	586.9	587.0	587.1	587.2	587.3	587.2	587.1	587.0
162.5°	595.2	595.3	595.4	595.6	595.9	596.2	596.5	596.8	596.5	596.2	595.9
165°	607.4	607.6	607.9	608.1	608.5	608.7	609.1	609.4	609.1	608.7	608.5
167.5°	617.2	617.1	617.1	617.3	617.8	618.2	618.7	619.1	618.7	618.2	617.8
170°	622.4	622.3	622.2	622.4	623.0	623.5	624.1	624.7	624.1	623.5	623.0
172.5°	626.5	626.5	626.5	626.7	627.2	627.7	628.1	628.5	628.1	627.7	627.2
175°	631.3	631.4	631.5	631.8	632.3	632.9	633.4	634.0	633.4	632.9	632.3
177.5°	633.8	633.8	633.8	634.0	634.5	634.9	635.3	635.8	635.3	634.9	634.5
180°	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0



TEST NUMBER: P332992-935

CATALOG NUMBER: SA4XXRDIP-C1195D590U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1675.4	1669.9	1662.8	1654.5	1644.6	1635.8	1631.9	1635.3	1636.9	1632.5	1631.9
5°	1624.4	1607.2	1593.5	1572.9	1556.3	1542.6	1533.0	1528.9	1530.3	1519.2	1516.5
7.5°	1567.1	1546.7	1524.1	1499.7	1476.9	1456.6	1446.0	1440.3	1428.7	1423.7	1415.3
10°	1530.3	1502.7	1480.7	1451.8	1425.7	1401.7	1390.0	1380.4	1368.6	1363.1	1351.5
12.5°	1492.3	1460.3	1436.1	1406.2	1379.5	1350.6	1339.4	1321.5	1303.2	1291.7	1276.7
15°	1438.8	1400.3	1370.7	1335.0	1303.4	1270.4	1240.8	1207.8	1195.4	1169.3	1154.2
17.5°	1376.2	1337.2	1300.6	1252.7	1203.9	1162.9	1131.4	1099.8	1080.8	1064.1	1056.4
20°	1335.0	1299.2	1248.4	1192.7	1138.4	1093.0	1067.6	1047.0	1026.3	1014.7	1006.4
22.5°	1296.0	1250.3	1191.2	1131.1	1076.8	1041.3	1019.8	998.6	981.8	970.7	959.7
25°	1230.5	1170.7	1108.1	1039.4	1002.3	971.4	948.0	930.7	920.5	906.0	900.5
27.5°	1163.3	1090.8	1021.8	975.6	936.9	908.6	888.3	875.4	862.3	853.1	845.9
30°	1111.6	1038.0	976.1	932.1	892.9	869.6	853.1	838.0	827.7	820.1	814.6
32.5°	1060.4	986.9	934.9	887.6	856.7	833.9	816.2	804.9	796.9	787.1	783.8
35°	986.4	921.2	875.8	833.2	801.5	780.9	767.2	755.5	748.6	745.9	743.8
37.5°	915.4	861.9	813.1	778.2	750.0	733.7	717.6	711.8	707.1	702.1	704.4
40°	870.3	820.1	776.8	739.7	717.0	699.1	689.5	682.6	678.5	678.5	678.5
42.5°	831.2	782.1	739.9	706.7	684.0	668.9	658.1	652.4	651.0	650.5	653.8
45°	770.6	725.2	682.6	655.1	635.8	620.8	614.6	609.8	609.8	612.5	613.2
47.5°	710.5	668.0	633.8	603.0	585.4	575.9	570.6	568.1	568.3	571.1	574.3
50°	673.6	631.7	598.1	570.6	554.1	545.1	540.3	539.0	540.3	540.3	545.1
52.5°	633.5	596.0	562.8	539.8	521.1	512.7	510.1	508.2	508.9	511.2	513.2
55°	574.7	541.0	509.4	487.4	473.6	468.1	461.9	462.6	461.2	462.6	462.6
57.5°	515.7	485.4	456.1	438.6	426.5	418.5	411.7	413.7	411.6	411.4	410.3
60°	477.8	444.8	421.4	405.6	391.8	385.0	378.8	380.1	378.1	376.7	373.9
62.5°	436.5	409.1	386.8	371.5	360.5	352.5	346.3	344.9	340.2	335.4	329.4
65°	376.7	354.0	334.1	319.7	309.4	303.2	298.3	294.2	283.9	272.9	267.4
67.5°	318.6	302.2	283.6	271.4	263.0	254.9	245.7	238.7	229.0	223.0	219.6
70°	281.1	265.4	249.5	237.8	228.9	221.4	211.0	206.2	199.3	196.6	193.2
72.5°	245.4	230.7	216.0	205.4	195.9	190.0	181.9	177.1	174.1	173.0	169.5
75°	191.1	179.4	168.4	158.8	151.3	147.1	143.7	140.3	138.9	132.7	129.2
77.5°	139.4	131.7	124.8	118.0	112.6	109.9	103.2	99.3	96.9	94.0	93.3
80°	108.6	103.1	96.3	92.1	84.6	81.8	79.0	78.4	77.7	77.0	76.3
82.5°	81.7	76.2	69.3	66.8	64.7	63.1	61.5	60.8	60.1	60.5	60.4
85°	41.2	38.5	38.5	37.8	37.1	36.4	35.7	35.7	35.0	35.7	35.0
87.5°	15.0	14.6	14.8	13.9	14.6	14.8	14.4	14.6	15.2	14.2	14.3
90°	6.3	7.3	8.2	9.0	9.9	10.8	11.5	12.1	12.7	13.4	13.9
92.5°	16.0	17.0	17.7	18.3	18.9	19.5	19.8	20.2	20.7	21.0	21.3
95°	33.4	34.3	35.0	35.8	36.6	37.3	37.6	38.0	38.3	38.7	38.8
97.5°	54.6	55.4	56.3	57.3	58.1	59.1	59.4	59.8	60.2	60.6	60.8
100°	70.5	71.2	72.2	73.2	74.1	75.2	75.3	75.6	75.8	76.0	76.1
102.5°	87.5	88.1	88.9	89.8	90.7	91.6	92.0	92.2	92.6	92.8	93.1
105°	114.9	115.1	115.5	116.0	116.4	116.8	117.2	117.5	117.9	118.2	118.5
107.5°	144.0	144.0	144.0	144.1	144.2	144.3	144.6	144.9	145.2	145.5	145.7
110°	163.9	163.9	163.8	163.8	163.7	163.5	163.3	163.1	162.9	162.6	162.7



TEST NUMBER: P332992-935

CATALOG NUMBER: SA4XXRDIP-C1195D590U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	183.7	183.6	183.4	183.1	183.0	182.8	182.7	182.7	182.6	182.6	182.6
115°	214.1	214.0	213.8	213.5	213.4	213.1	213.0	212.9	212.8	212.7	212.6
117.5°	243.3	243.3	243.1	243.0	242.8	242.7	242.3	241.9	241.6	241.2	240.9
120°	264.0	264.1	263.7	263.4	263.0	262.7	262.2	261.7	261.1	260.5	260.4
122.5°	282.9	283.0	282.8	282.7	282.5	282.4	282.0	281.6	281.3	280.9	280.5
125°	311.9	311.8	311.7	311.6	311.4	311.3	311.1	310.9	310.6	310.5	310.2
127.5°	339.9	340.0	339.8	339.7	339.5	339.3	339.1	338.9	338.7	338.5	338.3
130°	358.8	359.0	359.0	359.0	359.0	359.0	358.8	358.5	358.3	358.1	357.7
132.5°	377.7	377.8	377.7	377.6	377.5	377.5	377.2	377.0	376.8	376.6	376.3
135°	404.8	405.1	405.1	405.1	405.1	405.1	404.9	404.7	404.5	404.2	404.0
137.5°	431.1	431.4	431.5	431.7	431.9	432.0	431.8	431.4	431.2	430.9	430.8
140°	449.2	449.4	449.4	449.4	449.4	449.4	449.2	449.1	449.0	448.9	448.8
142.5°	466.1	466.1	466.1	466.0	465.9	465.8	465.8	465.8	465.8	465.7	465.7
145°	490.3	490.6	490.8	490.9	490.9	491.0	490.9	490.9	490.8	490.6	490.4
147.5°	513.9	514.1	514.0	513.9	513.8	513.8	513.7	513.6	513.5	513.4	513.3
150°	527.7	527.9	527.9	527.9	527.9	527.9	527.9	527.9	527.9	527.9	527.9
152.5°	540.4	540.5	540.6	540.7	540.8	540.9	541.1	541.4	541.7	541.9	541.9
155°	559.8	559.7	559.6	559.6	559.5	559.3	559.7	560.2	560.6	561.1	561.1
157.5°	576.4	576.2	576.2	576.2	576.2	576.1	576.4	576.8	577.1	577.5	577.4
160°	586.9	586.8	586.7	586.6	586.4	586.3	586.7	587.0	587.3	587.6	587.5
162.5°	595.6	595.4	595.3	595.2	595.1	595.0	595.6	596.2	596.8	597.4	597.4
165°	608.1	607.9	607.6	607.4	607.2	607.0	607.6	608.3	608.9	609.6	609.7
167.5°	617.3	617.1	617.1	617.2	617.2	617.2	617.9	618.5	619.1	619.8	619.7
170°	622.4	622.2	622.3	622.4	622.6	622.7	623.4	624.0	624.7	625.3	625.3
172.5°	626.7	626.5	626.5	626.5	626.5	626.6	627.3	628.1	628.9	629.6	629.6
175°	631.8	631.5	631.4	631.3	631.1	631.0	631.8	632.6	633.4	634.0	634.0
177.5°	634.0	633.8	633.8	633.8	633.8	633.8	634.4	635.0	635.6	636.2	636.2
180°	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0



TEST NUMBER: P332992-935

CATALOG NUMBER: SA4XXRDIP-C1195D590U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1628.7	1629.8	1625.9	1624.8	1625.9	1629.8	1628.7	1631.9	1632.5	1636.9	1635.3
5°	1511.0	1509.6	1506.1	1506.8	1506.1	1509.6	1511.0	1516.5	1519.2	1530.3	1528.9
7.5°	1410.3	1405.0	1406.4	1401.0	1406.4	1405.0	1410.3	1415.3	1423.7	1428.7	1440.3
10°	1348.8	1341.2	1335.0	1329.5	1335.0	1341.2	1348.8	1351.5	1363.1	1368.6	1380.4
12.5°	1264.6	1258.1	1249.7	1251.4	1249.7	1258.1	1264.6	1276.7	1291.7	1303.2	1321.5
15°	1145.2	1135.0	1118.4	1120.5	1118.4	1135.0	1145.2	1154.2	1169.3	1195.4	1207.8
17.5°	1044.2	1044.3	1036.8	1038.5	1036.8	1044.3	1044.2	1056.4	1064.1	1080.8	1099.8
20°	992.0	987.1	987.8	985.8	987.8	987.1	992.0	1006.4	1014.7	1026.3	1047.0
22.5°	955.6	949.8	944.9	940.6	944.9	949.8	955.6	959.7	970.7	981.8	998.6
25°	894.3	890.2	884.1	882.7	884.1	890.2	894.3	900.5	906.0	920.5	930.7
27.5°	840.4	839.6	837.2	834.0	837.2	839.6	840.4	845.9	853.1	862.3	875.4
30°	809.1	807.7	806.3	804.3	806.3	807.7	809.1	814.6	820.1	827.7	838.0
32.5°	781.1	780.2	778.9	779.0	778.9	780.2	781.1	783.8	787.1	796.9	804.9
35°	741.1	740.4	739.0	738.3	739.0	740.4	741.1	743.8	745.9	748.6	755.5
37.5°	703.7	705.4	704.6	704.5	704.6	705.4	703.7	704.4	702.1	707.1	711.8
40°	677.8	678.5	679.8	679.2	679.8	678.5	677.8	678.5	678.5	678.5	682.6
42.5°	656.3	656.5	658.4	656.1	658.4	656.5	656.3	653.8	650.5	651.0	652.4
45°	618.0	622.2	621.5	621.5	621.5	622.2	618.0	613.2	612.5	609.8	609.8
47.5°	576.1	579.6	580.6	580.5	580.6	579.6	576.1	574.3	571.1	568.3	568.1
50°	548.5	547.2	549.2	548.5	549.2	547.2	548.5	545.1	540.3	540.3	539.0
52.5°	515.1	515.3	515.1	514.4	515.1	515.3	515.1	513.2	511.2	508.9	508.2
55°	463.3	464.0	462.6	463.3	462.6	464.0	463.3	462.6	462.6	461.2	462.6
57.5°	407.3	403.9	405.3	403.6	405.3	403.9	407.3	410.3	411.4	411.6	413.7
60°	367.1	361.6	360.2	357.5	360.2	361.6	367.1	373.9	376.7	378.1	380.1
62.5°	322.0	318.1	313.5	315.6	313.5	318.1	322.0	329.4	335.4	340.2	344.9
65°	261.9	259.2	257.1	259.8	257.1	259.2	261.9	267.4	272.9	283.9	294.2
67.5°	216.8	215.3	215.3	214.0	215.3	215.3	216.8	219.6	223.0	229.0	238.7
70°	193.2	191.1	191.1	189.8	191.1	191.1	193.2	193.2	196.6	199.3	206.2
72.5°	168.9	166.9	167.5	166.6	167.5	166.9	168.9	169.5	173.0	174.1	177.1
75°	125.1	121.7	121.7	122.3	121.7	121.7	125.1	129.2	132.7	138.9	140.3
77.5°	93.3	92.6	93.6	92.4	93.6	92.6	93.3	93.3	94.0	96.9	99.3
80°	76.3	75.6	74.9	77.0	74.9	75.6	76.3	76.3	77.0	77.7	78.4
82.5°	59.2	59.2	59.0	61.6	59.0	59.2	59.2	60.4	60.5	60.1	60.8
85°	35.7	34.4	35.7	34.4	35.7	34.4	35.7	35.0	35.7	35.0	35.7
87.5°	15.5	15.0	14.5	15.1	14.5	15.0	15.5	14.3	14.2	15.2	14.6
90°	14.1	14.3	14.6	14.7	14.6	14.3	14.1	13.9	13.4	12.7	12.1
92.5°	21.4	21.5	21.7	21.8	21.7	21.5	21.4	21.3	21.0	20.7	20.2
95°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.7	38.3	38.0
97.5°	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.6	60.2	59.8
100°	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.0	75.8	75.6
102.5°	93.2	93.2	93.3	93.4	93.3	93.2	93.2	93.1	92.8	92.6	92.2
105°	118.8	119.2	119.5	119.9	119.5	119.2	118.8	118.5	118.2	117.9	117.5
107.5°	145.6	145.6	145.6	145.6	145.6	145.6	145.6	145.7	145.5	145.2	144.9
110°	163.1	163.3	163.7	164.0	163.7	163.3	163.1	162.7	162.6	162.9	163.1



TEST NUMBER: P332992-935

CATALOG NUMBER: SA4XXRDIP-C1195D590U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	182.7	182.7	182.8	182.9	182.8	182.7	182.7	182.6	182.6	182.6	182.7
115°	212.5	212.3	212.2	212.2	212.2	212.3	212.5	212.6	212.7	212.8	212.9
117.5°	240.6	240.5	240.2	240.0	240.2	240.5	240.6	240.9	241.2	241.6	241.9
120°	260.6	260.8	261.1	261.2	261.1	260.8	260.6	260.4	260.5	261.1	261.7
122.5°	280.1	279.7	279.3	279.0	279.3	279.7	280.1	280.5	280.9	281.3	281.6
125°	310.0	309.8	309.6	309.4	309.6	309.8	310.0	310.2	310.5	310.6	310.9
127.5°	338.1	337.9	337.8	337.6	337.8	337.9	338.1	338.3	338.5	338.7	338.9
130°	357.3	356.9	356.5	356.0	356.5	356.9	357.3	357.7	358.1	358.3	358.5
132.5°	376.2	376.0	375.8	375.7	375.8	376.0	376.2	376.3	376.6	376.8	377.0
135°	403.6	403.3	403.0	402.7	403.0	403.3	403.6	404.0	404.2	404.5	404.7
137.5°	430.8	430.9	431.0	431.1	431.0	430.9	430.8	430.8	430.9	431.2	431.4
140°	448.7	448.6	448.5	448.3	448.5	448.6	448.7	448.8	448.9	449.0	449.1
142.5°	465.7	465.7	465.6	465.6	465.6	465.7	465.7	465.7	465.7	465.8	465.8
145°	490.1	489.7	489.4	489.1	489.4	489.7	490.1	490.4	490.6	490.8	490.9
147.5°	513.2	513.1	513.0	512.9	513.0	513.1	513.2	513.3	513.4	513.5	513.6
150°	527.7	527.6	527.5	527.4	527.5	527.6	527.7	527.9	527.9	527.9	527.9
152.5°	541.7	541.3	541.1	540.8	541.1	541.3	541.7	541.9	541.9	541.7	541.4
155°	560.6	560.2	559.7	559.3	559.7	560.2	560.6	561.1	561.1	560.6	560.2
157.5°	577.0	576.7	576.3	575.9	576.3	576.7	577.0	577.4	577.5	577.1	576.8
160°	587.0	586.4	585.9	585.4	585.9	586.4	587.0	587.5	587.6	587.3	587.0
162.5°	596.8	596.2	595.7	595.2	595.7	596.2	596.8	597.4	597.4	596.8	596.2
165°	609.2	608.8	608.4	608.0	608.4	608.8	609.2	609.7	609.6	608.9	608.3
167.5°	619.1	618.5	617.8	617.1	617.8	618.5	619.1	619.7	619.8	619.1	618.5
170°	624.5	623.7	622.9	622.2	622.9	623.7	624.5	625.3	625.3	624.7	624.0
172.5°	628.8	628.0	627.2	626.5	627.2	628.0	628.8	629.6	629.6	628.9	628.1
175°	633.4	632.6	631.8	631.0	631.8	632.6	633.4	634.0	634.0	633.4	632.6
177.5°	635.5	634.8	634.0	633.4	634.0	634.8	635.5	636.2	636.2	635.6	635.0
180°	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0



TEST NUMBER: P332992-935

CATALOG NUMBER: SA4XXRDIP-C1195D590U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1631.9	1635.8	1644.6	1654.5	1662.8	1669.9	1675.4	1683.1	1690.2	1700.1	1709.5
5°	1533.0	1542.6	1556.3	1572.9	1593.5	1607.2	1624.4	1639.5	1661.6	1683.5	1704.9
7.5°	1446.0	1456.6	1476.9	1499.7	1524.1	1546.7	1567.1	1593.7	1622.9	1654.9	1690.7
10°	1390.0	1401.7	1425.7	1451.8	1480.7	1502.7	1530.3	1561.9	1594.8	1634.0	1678.0
12.5°	1339.4	1350.6	1379.5	1406.2	1436.1	1460.3	1492.3	1524.5	1568.5	1610.9	1661.0
15°	1240.8	1270.4	1303.4	1335.0	1370.7	1400.3	1438.8	1471.8	1513.7	1573.6	1630.6
17.5°	1131.4	1162.9	1203.9	1252.7	1300.6	1337.2	1376.2	1417.2	1467.1	1528.2	1594.1
20°	1067.6	1093.0	1138.4	1192.7	1248.4	1299.2	1335.0	1380.4	1431.9	1497.9	1566.0
22.5°	1019.8	1041.3	1076.8	1131.1	1191.2	1250.3	1296.0	1340.7	1397.8	1463.8	1537.9
25°	948.0	971.4	1002.3	1039.4	1108.1	1170.7	1230.5	1282.0	1342.6	1408.5	1491.0
27.5°	888.3	908.6	936.9	975.6	1021.8	1090.8	1163.3	1222.1	1284.1	1355.0	1437.5
30°	853.1	869.6	892.9	932.1	976.1	1038.0	1111.6	1180.3	1242.9	1316.5	1402.4
32.5°	816.2	833.9	856.7	887.6	934.9	986.9	1060.4	1135.7	1202.2	1277.4	1361.7
35°	767.2	780.9	801.5	833.2	875.8	921.2	986.4	1064.1	1134.3	1214.7	1295.1
37.5°	717.6	733.7	750.0	778.2	813.1	861.9	915.4	994.7	1072.4	1145.8	1224.3
40°	689.5	699.1	717.0	739.7	776.8	820.1	870.3	948.0	1025.6	1098.5	1177.6
42.5°	658.1	668.9	684.0	706.7	739.9	782.1	831.2	898.5	979.5	1050.2	1122.1
45°	614.6	620.8	635.8	655.1	682.6	725.2	770.6	830.4	906.7	974.0	1037.3
47.5°	570.6	575.9	585.4	603.0	633.8	668.0	710.5	764.1	831.1	898.5	951.9
50°	540.3	545.1	554.1	570.6	598.1	631.7	673.6	721.8	781.6	846.2	890.9
52.5°	510.1	512.7	521.1	539.8	562.8	596.0	633.5	677.8	733.7	787.4	832.6
55°	461.9	468.1	473.6	487.4	509.4	541.0	574.7	616.6	660.0	705.3	743.8
57.5°	411.7	418.5	426.5	438.6	456.1	485.4	515.7	549.7	586.7	624.3	656.6
60°	378.8	385.0	391.8	405.6	421.4	444.8	477.8	507.3	535.5	569.9	602.2
62.5°	346.3	352.5	360.5	371.5	386.8	409.1	436.5	462.3	491.5	521.5	545.5
65°	298.3	303.2	309.4	319.7	334.1	354.0	376.7	396.7	422.8	444.8	466.7
67.5°	245.7	254.9	263.0	271.4	283.6	302.2	318.6	337.7	355.4	371.8	391.8
70°	211.0	221.4	228.9	237.8	249.5	265.4	281.1	294.2	308.7	324.4	342.3
72.5°	181.9	190.0	195.9	205.4	216.0	230.7	245.4	256.2	267.9	278.8	296.2
75°	143.7	147.1	151.3	158.8	168.4	179.4	191.1	200.7	207.6	217.2	229.6
77.5°	103.2	109.9	112.6	118.0	124.8	131.7	139.4	147.5	154.1	157.6	167.0
80°	79.0	81.8	84.6	92.1	96.3	103.1	108.6	116.1	118.9	122.3	131.3
82.5°	61.5	63.1	64.7	66.8	69.3	76.2	81.7	86.4	89.2	90.5	97.2
85°	35.7	36.4	37.1	37.8	38.5	38.5	41.2	44.7	49.5	49.5	51.6
87.5°	14.4	14.8	14.6	13.9	14.8	14.6	15.0	14.7	16.2	17.6	19.0
90°	11.5	10.8	9.9	9.0	8.2	7.3	6.3	5.1	3.9	2.7	1.5
92.5°	19.8	19.5	18.9	18.3	17.7	17.0	16.0	14.6	13.3	11.9	10.5
95°	37.6	37.3	36.6	35.8	35.0	34.3	33.4	32.4	31.4	30.5	29.4
97.5°	59.4	59.1	58.1	57.3	56.3	55.4	54.6	53.8	53.0	52.3	51.5
100°	75.3	75.2	74.1	73.2	72.2	71.2	70.5	70.1	69.7	69.2	68.7
102.5°	92.0	91.6	90.7	89.8	88.9	88.1	87.5	87.3	87.1	87.0	86.8
105°	117.2	116.8	116.4	116.0	115.5	115.1	114.9	114.8	114.6	114.5	114.4
107.5°	144.6	144.3	144.2	144.1	144.0	144.0	144.0	143.8	143.6	143.5	143.4
110°	163.3	163.5	163.7	163.8	163.8	163.9	163.9	163.7	163.5	163.2	163.1



TEST NUMBER: P332992-935

CATALOG NUMBER: SA4XXRDIP-C1195D590U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	182.7	182.8	183.0	183.1	183.4	183.6	183.7	183.6	183.6	183.5	183.5
115°	213.0	213.1	213.4	213.5	213.8	214.0	214.1	214.1	214.1	214.1	214.1
117.5°	242.3	242.7	242.8	243.0	243.1	243.3	243.3	243.2	243.1	243.1	243.0
120°	262.2	262.7	263.0	263.4	263.7	264.1	264.0	263.6	263.1	262.7	262.3
122.5°	282.0	282.4	282.5	282.7	282.8	283.0	282.9	282.8	282.6	282.4	282.2
125°	311.1	311.3	311.4	311.6	311.7	311.8	311.9	311.9	311.9	311.9	311.9
127.5°	339.1	339.3	339.5	339.7	339.8	340.0	339.9	339.7	339.3	339.0	338.6
130°	358.8	359.0	359.0	359.0	359.0	359.0	358.8	358.5	358.2	357.8	357.5
132.5°	377.2	377.5	377.5	377.6	377.7	377.8	377.7	377.5	377.2	377.0	376.8
135°	404.9	405.1	405.1	405.1	405.1	405.1	404.8	404.2	403.5	402.9	402.2
137.5°	431.8	432.0	431.9	431.7	431.5	431.4	431.1	430.8	430.5	430.2	429.9
140°	449.2	449.4	449.4	449.4	449.4	449.4	449.2	449.0	448.8	448.6	448.3
142.5°	465.8	465.8	465.9	466.0	466.1	466.1	466.1	465.9	465.7	465.5	465.2
145°	490.9	491.0	490.9	490.9	490.8	490.6	490.3	489.9	489.5	489.0	488.6
147.5°	513.7	513.8	513.8	513.9	514.0	514.1	513.9	513.3	512.8	512.3	511.8
150°	527.9	527.9	527.9	527.9	527.9	527.9	527.7	527.3	526.8	526.4	525.9
152.5°	541.1	540.9	540.8	540.7	540.6	540.5	540.4	540.1	539.8	539.6	539.3
155°	559.7	559.3	559.5	559.6	559.6	559.7	559.8	559.8	559.8	559.8	559.8
157.5°	576.4	576.1	576.2	576.2	576.2	576.2	576.4	576.5	576.7	576.9	577.1
160°	586.7	586.3	586.4	586.6	586.7	586.8	586.9	587.0	587.1	587.2	587.3
162.5°	595.6	595.0	595.1	595.2	595.3	595.4	595.6	595.9	596.2	596.5	596.8
165°	607.6	607.0	607.2	607.4	607.6	607.9	608.1	608.5	608.7	609.1	609.4
167.5°	617.9	617.2	617.2	617.2	617.1	617.1	617.3	617.8	618.2	618.7	619.1
170°	623.4	622.7	622.6	622.4	622.3	622.2	622.4	623.0	623.5	624.1	624.7
172.5°	627.3	626.6	626.5	626.5	626.5	626.5	626.7	627.2	627.7	628.1	628.5
175°	631.8	631.0	631.1	631.3	631.4	631.5	631.8	632.3	632.9	633.4	634.0
177.5°	634.4	633.8	633.8	633.8	633.8	633.8	634.0	634.5	634.9	635.3	635.8
180°	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0



TEST NUMBER: P332992-935

CATALOG NUMBER: SA4XXRDIP-C1195D590U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1716.7	1721.6	1727.1	1737.6	1746.4	1750.2	1757.9	1763.4	1761.8	1769.4	1782.6
5°	1723.4	1742.0	1763.2	1785.3	1810.0	1830.7	1847.1	1863.6	1876.7	1892.5	1915.9
7.5°	1722.3	1755.3	1791.1	1830.7	1871.2	1906.3	1938.7	1971.7	2001.0	2033.0	2074.9
10°	1717.9	1761.9	1806.6	1858.1	1909.7	1958.5	2002.5	2043.8	2082.9	2124.9	2177.8
12.5°	1713.0	1763.5	1817.6	1879.6	1943.8	2002.5	2054.2	2113.6	2162.7	2216.7	2277.9
15°	1691.1	1759.1	1832.7	1913.1	1990.1	2069.2	2139.9	2212.9	2280.9	2345.5	2422.5
17.5°	1666.0	1744.6	1831.3	1926.3	2018.9	2115.0	2199.0	2290.8	2360.3	2447.1	2518.6
20°	1645.7	1730.3	1823.1	1929.6	2034.8	2141.3	2234.1	2327.6	2406.0	2493.3	2584.0
22.5°	1620.9	1713.7	1814.3	1924.7	2034.8	2151.2	2253.9	2346.9	2443.9	2542.3	2635.8
25°	1581.1	1677.3	1783.9	1904.9	2031.4	2150.3	2260.3	2375.8	2480.3	2586.8	2670.6
27.5°	1532.1	1633.2	1745.5	1870.4	2000.2	2121.9	2251.5	2374.6	2479.7	2582.2	2655.4
30°	1493.1	1599.7	1707.5	1834.1	1968.8	2099.4	2238.3	2361.3	2472.0	2564.1	2605.4
32.5°	1452.9	1554.0	1665.3	1793.4	1931.4	2071.9	2209.7	2335.5	2437.9	2493.2	2494.2
35°	1383.1	1478.0	1593.5	1719.2	1860.9	2013.4	2153.0	2276.7	2339.3	2344.2	2276.7
37.5°	1306.9	1394.0	1503.0	1628.9	1784.0	1935.8	2078.4	2160.9	2181.8	2111.8	1987.2
40°	1252.5	1332.9	1438.1	1567.4	1721.3	1878.1	2008.0	2068.5	2046.5	1933.0	1794.2
42.5°	1195.3	1270.2	1371.6	1499.2	1653.7	1812.1	1922.8	1955.2	1896.9	1765.9	1603.4
45°	1102.0	1170.7	1271.1	1399.6	1548.1	1696.6	1780.5	1763.9	1667.0	1511.7	1329.5
47.5°	1004.8	1071.2	1161.5	1280.4	1432.4	1560.6	1617.4	1567.6	1429.7	1258.8	1110.6
50°	940.4	1008.5	1091.7	1205.1	1343.9	1467.7	1504.1	1428.5	1275.1	1110.9	974.7
52.5°	877.2	935.3	1016.8	1126.4	1259.2	1363.7	1383.1	1296.0	1137.7	990.4	869.7
55°	780.9	833.9	902.6	1005.7	1120.5	1209.2	1198.9	1086.8	943.1	817.3	722.5
57.5°	687.9	727.7	791.3	887.9	988.7	1048.2	1010.6	915.0	781.1	678.1	598.1
60°	626.3	663.4	722.5	807.0	895.7	929.4	897.8	794.0	688.1	593.9	526.6
62.5°	567.9	600.7	651.5	730.0	801.7	821.7	787.8	697.2	601.8	521.3	465.5
65°	483.3	513.5	556.8	612.5	662.0	671.6	649.6	556.8	484.7	417.2	378.8
67.5°	406.4	426.2	460.0	508.2	534.4	540.0	497.6	439.3	375.7	334.2	305.2
70°	354.7	368.4	400.1	426.2	447.5	448.2	409.1	362.3	313.5	279.8	258.5
72.5°	304.7	317.9	341.8	359.6	376.0	370.7	334.8	297.9	258.5	233.1	217.2
75°	235.1	246.8	259.2	267.4	267.4	260.5	234.5	206.9	184.3	169.1	164.3
77.5°	170.9	180.6	184.7	183.4	180.9	170.2	153.7	135.7	127.6	120.5	116.8
80°	134.1	138.2	139.6	136.1	132.0	119.6	108.6	101.1	93.5	90.7	89.4
82.5°	99.4	103.0	99.4	100.4	91.3	81.1	75.1	72.5	69.3	68.2	66.8
85°	53.0	52.3	50.9	47.4	41.2	39.9	39.2	38.5	37.1	37.8	36.4
87.5°	18.7	17.3	15.3	15.0	15.2	14.3	15.0	15.2	15.3	15.0	16.2
90°	2.7	3.9	5.1	6.3	7.3	8.2	9.0	9.9	10.8	11.5	12.1
92.5°	11.9	13.3	14.6	16.0	17.0	17.7	18.3	18.9	19.5	19.8	20.2
95°	30.5	31.4	32.4	33.4	34.3	35.0	35.8	36.6	37.3	37.6	38.0
97.5°	52.3	53.0	53.8	54.6	55.4	56.3	57.3	58.1	59.1	59.4	59.8
100°	69.2	69.7	70.1	70.5	71.2	72.2	73.2	74.1	75.2	75.3	75.6
102.5°	87.0	87.1	87.3	87.5	88.1	88.9	89.8	90.7	91.6	92.0	92.2
105°	114.5	114.6	114.8	114.9	115.1	115.5	116.0	116.4	116.8	117.2	117.5
107.5°	143.5	143.6	143.8	144.0	144.0	144.0	144.1	144.2	144.3	144.6	144.9
110°	163.2	163.5	163.7	163.9	163.9	163.8	163.8	163.7	163.5	163.3	163.1



TEST NUMBER: P332992-935

CATALOG NUMBER: SA4XXRDIP-C1195D590U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	183.5	183.6	183.6	183.7	183.6	183.4	183.1	183.0	182.8	182.7	182.7
115°	214.1	214.1	214.1	214.1	214.0	213.8	213.5	213.4	213.1	213.0	212.9
117.5°	243.1	243.1	243.2	243.3	243.3	243.1	243.0	242.8	242.7	242.3	241.9
120°	262.7	263.1	263.6	264.0	264.1	263.7	263.4	263.0	262.7	262.2	261.7
122.5°	282.4	282.6	282.8	282.9	283.0	282.8	282.7	282.5	282.4	282.0	281.6
125°	311.9	311.9	311.9	311.9	311.8	311.7	311.6	311.4	311.3	311.1	310.9
127.5°	339.0	339.3	339.7	339.9	340.0	339.8	339.7	339.5	339.3	339.1	338.9
130°	357.8	358.2	358.5	358.8	359.0	359.0	359.0	359.0	359.0	358.8	358.5
132.5°	377.0	377.2	377.5	377.7	377.8	377.7	377.6	377.5	377.5	377.2	377.0
135°	402.9	403.5	404.2	404.8	405.1	405.1	405.1	405.1	405.1	404.9	404.7
137.5°	430.2	430.5	430.8	431.1	431.4	431.5	431.7	431.9	432.0	431.8	431.4
140°	448.6	448.8	449.0	449.2	449.4	449.4	449.4	449.4	449.4	449.2	449.1
142.5°	465.5	465.7	465.9	466.1	466.1	466.1	466.0	465.9	465.8	465.8	465.8
145°	489.0	489.5	489.9	490.3	490.6	490.8	490.9	490.9	491.0	490.9	490.9
147.5°	512.3	512.8	513.3	513.9	514.1	514.0	513.9	513.8	513.8	513.7	513.6
150°	526.4	526.8	527.3	527.7	527.9	527.9	527.9	527.9	527.9	527.9	527.9
152.5°	539.6	539.8	540.1	540.4	540.5	540.6	540.7	540.8	540.9	541.1	541.4
155°	559.8	559.8	559.8	559.8	559.7	559.6	559.6	559.5	559.3	559.7	560.2
157.5°	576.9	576.7	576.5	576.4	576.2	576.2	576.2	576.2	576.1	576.4	576.8
160°	587.2	587.1	587.0	586.9	586.8	586.7	586.6	586.4	586.3	586.7	587.0
162.5°	596.5	596.2	595.9	595.6	595.4	595.3	595.2	595.1	595.0	595.6	596.2
165°	609.1	608.7	608.5	608.1	607.9	607.6	607.4	607.2	607.0	607.6	608.3
167.5°	618.7	618.2	617.8	617.3	617.1	617.1	617.2	617.2	617.2	617.9	618.5
170°	624.1	623.5	623.0	622.4	622.2	622.3	622.4	622.6	622.7	623.4	624.0
172.5°	628.1	627.7	627.2	626.7	626.5	626.5	626.5	626.5	626.6	627.3	628.1
175°	633.4	632.9	632.3	631.8	631.5	631.4	631.3	631.1	631.0	631.8	632.6
177.5°	635.3	634.9	634.5	634.0	633.8	633.8	633.8	633.8	633.8	634.4	635.0
180°	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0



TEST NUMBER: P332992-935

CATALOG NUMBER: SA4XXRDIP-C1195D590U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1789.8	1792.0	1793.6	1799.1	1799.7	1804.7	1799.7
5°	1937.9	1947.5	1962.6	1977.7	1979.1	1988.7	1971.5
7.5°	2103.9	2126.2	2140.1	2164.6	2174.2	2180.2	2170.3
10°	2218.4	2238.9	2275.4	2293.3	2311.2	2313.9	2305.7
12.5°	2328.9	2361.6	2390.3	2424.1	2423.4	2447.6	2438.7
15°	2476.1	2509.8	2549.7	2587.5	2601.3	2601.3	2612.3
17.5°	2581.2	2642.9	2684.2	2713.9	2746.2	2751.9	2748.1
20°	2652.1	2718.8	2762.8	2801.3	2823.3	2829.5	2829.5
22.5°	2704.9	2761.7	2804.6	2839.2	2857.4	2864.6	2862.5
25°	2741.5	2790.2	2816.4	2826.7	2831.5	2830.2	2817.1
27.5°	2691.4	2689.2	2672.7	2641.1	2617.4	2602.9	2586.4
30°	2595.7	2560.0	2518.8	2473.4	2414.9	2370.2	2356.5
32.5°	2453.3	2373.0	2303.2	2227.6	2164.7	2120.0	2101.4
35°	2177.8	2050.6	1946.8	1856.1	1790.1	1748.9	1735.1
37.5°	1850.8	1727.8	1599.2	1511.2	1456.6	1414.9	1399.3
40°	1643.0	1508.9	1396.9	1314.4	1258.0	1217.5	1216.8
42.5°	1453.2	1325.3	1219.8	1160.4	1099.6	1072.8	1072.6
45°	1189.9	1087.5	998.2	951.4	915.0	892.9	886.7
47.5°	985.2	900.5	841.0	803.7	774.0	760.0	751.0
50°	870.3	796.1	748.6	716.3	699.8	681.9	680.5
52.5°	774.6	714.6	677.7	651.4	630.5	619.7	620.1
55°	651.0	603.6	577.5	557.5	541.0	532.8	529.3
57.5°	548.5	512.8	493.9	475.5	468.6	462.1	460.3
60°	484.7	460.5	442.7	428.3	417.9	415.9	415.2
62.5°	431.9	406.7	394.3	383.1	375.7	372.5	371.2
65°	356.1	337.5	326.5	317.6	314.9	310.0	309.4
67.5°	287.1	276.0	268.6	262.4	258.7	258.5	258.5
70°	244.7	238.5	232.4	228.9	226.9	225.5	225.5
72.5°	208.4	203.9	198.8	197.0	196.6	195.2	194.7
75°	158.8	153.9	154.6	151.3	148.5	145.1	143.0
77.5°	112.6	109.2	108.5	108.1	105.7	105.3	106.4
80°	87.3	83.9	83.2	83.9	83.2	81.1	81.1
82.5°	66.4	63.5	62.9	62.4	61.7	62.4	61.3
85°	35.7	34.4	34.4	34.4	35.7	35.0	34.4
87.5°	15.2	14.8	15.4	14.9	15.0	14.5	15.1
90°	12.7	13.4	13.9	14.1	14.3	14.6	14.7
92.5°	20.7	21.0	21.3	21.4	21.5	21.7	21.8
95°	38.3	38.7	38.8	38.8	38.8	38.8	38.8
97.5°	60.2	60.6	60.8	60.8	60.8	60.8	60.8
100°	75.8	76.0	76.1	76.1	76.1	76.1	76.1
102.5°	92.6	92.8	93.1	93.2	93.2	93.3	93.4
105°	117.9	118.2	118.5	118.8	119.2	119.5	119.9
107.5°	145.2	145.5	145.7	145.6	145.6	145.6	145.6
110°	162.9	162.6	162.7	163.1	163.3	163.7	164.0



TEST NUMBER: P332992-935

CATALOG NUMBER: SA4XXRDIP-C1195D590U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	182.6	182.6	182.6	182.7	182.7	182.8	182.9
115°	212.8	212.7	212.6	212.5	212.3	212.2	212.2
117.5°	241.6	241.2	240.9	240.6	240.5	240.2	240.0
120°	261.1	260.5	260.4	260.6	260.8	261.1	261.2
122.5°	281.3	280.9	280.5	280.1	279.7	279.3	279.0
125°	310.6	310.5	310.2	310.0	309.8	309.6	309.4
127.5°	338.7	338.5	338.3	338.1	337.9	337.8	337.6
130°	358.3	358.1	357.7	357.3	356.9	356.5	356.0
132.5°	376.8	376.6	376.3	376.2	376.0	375.8	375.7
135°	404.5	404.2	404.0	403.6	403.3	403.0	402.7
137.5°	431.2	430.9	430.8	430.8	430.9	431.0	431.1
140°	449.0	448.9	448.8	448.7	448.6	448.5	448.3
142.5°	465.8	465.7	465.7	465.7	465.7	465.6	465.6
145°	490.8	490.6	490.4	490.1	489.7	489.4	489.1
147.5°	513.5	513.4	513.3	513.2	513.1	513.0	512.9
150°	527.9	527.9	527.9	527.7	527.6	527.5	527.4
152.5°	541.7	541.9	541.9	541.7	541.3	541.1	540.8
155°	560.6	561.1	561.1	560.6	560.2	559.7	559.3
157.5°	577.1	577.5	577.4	577.0	576.7	576.3	575.9
160°	587.3	587.6	587.5	587.0	586.4	585.9	585.4
162.5°	596.8	597.4	597.4	596.8	596.2	595.7	595.2
165°	608.9	609.6	609.7	609.2	608.8	608.4	608.0
167.5°	619.1	619.8	619.7	619.1	618.5	617.8	617.1
170°	624.7	625.3	625.3	624.5	623.7	622.9	622.2
172.5°	628.9	629.6	629.6	628.8	628.0	627.2	626.5
175°	633.4	634.0	634.0	633.4	632.6	631.8	631.0
177.5°	635.6	636.2	636.2	635.5	634.8	634.0	633.4
180°	635.0	635.0	635.0	635.0	635.0	635.0	635.0

(END OF REPORT)