

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: P332680-935

Luminaire Tested: **SA4XXDIP-C1195D590U935-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332680-935  
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: SA4XXDIP-C1195D590U935-4F0-1E-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**

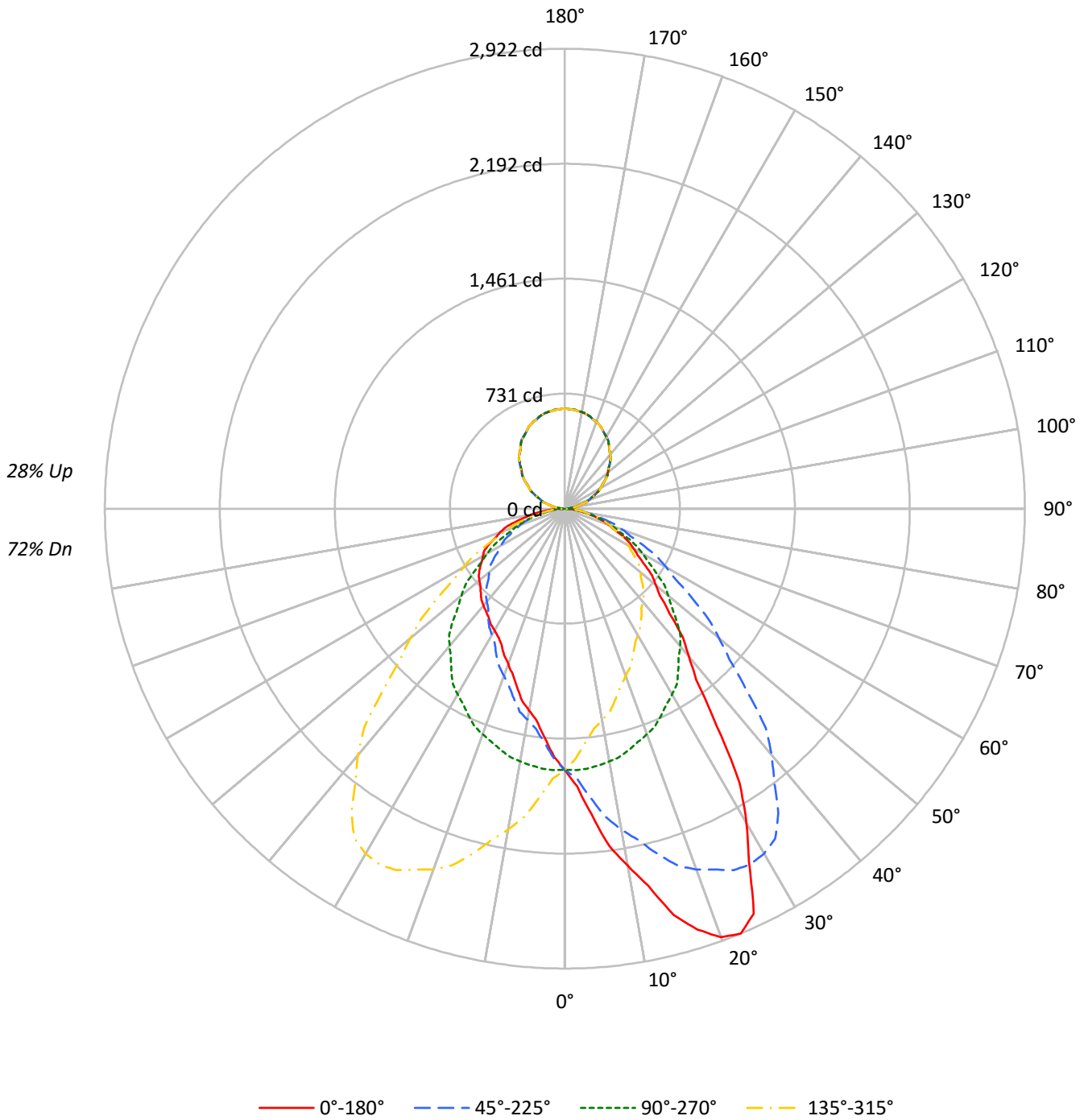
Lumens per Lamp: N/A  
Luminaire Lumens: 6342.0 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: Semi-Direct

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	0
RCR																		
0	112	112	112	112	107	107	107	107	96	96	96	86	86	86	77	77	77	72
1	103	99	95	91	98	94	90	87	85	82	79	76	74	72	68	67	65	61
2	94	87	80	75	89	82	77	72	74	70	66	67	64	61	60	58	55	52
3	86	76	69	63	81	73	66	61	66	61	56	60	55	52	54	50	48	44
4	79	68	60	54	75	65	58	52	59	53	48	53	49	45	48	45	41	38
5	73	61	53	46	69	58	51	45	53	47	42	48	43	39	44	40	36	34
6	67	55	47	41	64	52	45	39	48	42	37	44	38	34	40	35	32	30
7	62	50	42	36	59	48	40	35	44	37	33	40	35	31	36	32	29	26
8	58	45	37	32	55	44	36	31	40	34	29	37	31	28	34	29	26	24
9	54	42	34	29	51	40	33	28	37	31	26	34	29	25	31	27	23	21
10	51	38	31	26	48	37	30	25	34	28	24	31	26	23	29	24	21	19

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	13397	13397	13397	13397
5°	15776	13431	11854	13431
10°	18889	13373	10673	13373
15°	22349	13237	9802	13237
20°	24887	13099	9024	13099
25°	25289	12896	8487	12896
30°	21519	12701	8318	12701
35°	16544	12384	8319	12384
40°	12896	12012	8476	12012
45°	10752	11451	8617	11451
50°	9463	10766	8911	10766
55°	8670	9947	9270	9947
60°	8125	9213	9700	9213
65°	7564	8392	10059	8392
70°	6911	7579	10286	7579
75°	6173	6669	10162	6669
80°	5174	5463	9842	5463
85°	3816	3946	9429	3946



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.7	2.5
10°-20°	498.3	7.9
20°-30°	790.2	12.5
30°-40°	879.4	13.9
40°-50°	800.5	12.6
50°-60°	654.1	10.3
60°-70°	467.0	7.4
70°-80°	257.1	4.1
80°-90°	72.1	1.1
90°-100°	41.9	0.7
100°-110°	124.1	2.0
110°-120°	210.6	3.3
120°-130°	277.7	4.4
130°-140°	311.8	4.9
140°-150°	306.4	4.8
150°-160°	257.7	4.1
160°-170°	171.5	2.7
170°-180°	60.0	0.9
0°-30°	1450.2	22.9
0°-40°	2329.6	36.7
0°-60°	3784.2	59.7
0°-90°	4580.4	72.2
90°-120°	376.5	5.9
90°-150°	1272.4	20.1
90°-180°	1762.0	27.8
0°-180°	6342.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1660	1660	1660	1660	1660	
5°	1947	1657	1463	1657	1947	198
15°	2674	1584	1173	1584	2674	756
25°	2839	1448	953	1448	2839	1252
35°	1679	1257	844	1257	1679	1066
45°	942	1003	755	1003	942	742
55°	616	707	659	707	616	556
65°	396	439	527	439	396	392
75°	198	214	326	214	198	210
85°	41	43	102	43	41	51
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: P332680-935

CATALOG NUMBER: SA4XXDIP-C1195D590U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1766.2	1765.6	1760.1	1759.0	1755.1	1750.2	1749.1	1740.3	1722.7	1714.4	1712.3
5°	1946.8	1960.6	1942.7	1939.2	1937.2	1914.5	1902.8	1889.0	1857.4	1838.9	1824.5
7.5°	2162.4	2164.0	2156.2	2149.9	2132.4	2112.6	2082.9	2051.3	2013.6	1974.4	1944.9
10°	2304.3	2309.8	2300.9	2299.5	2264.4	2242.4	2198.4	2161.3	2118.7	2071.2	2027.9
12.5°	2453.8	2446.2	2441.6	2412.2	2405.7	2365.6	2314.5	2276.2	2210.5	2155.9	2098.3
15°	2674.1	2659.0	2649.4	2608.8	2588.9	2533.1	2478.9	2437.0	2351.0	2269.3	2207.3
17.5°	2803.3	2818.5	2796.2	2779.6	2728.0	2689.0	2633.5	2545.5	2478.2	2376.6	2298.5
20°	2896.8	2898.2	2885.8	2868.7	2828.1	2778.6	2718.1	2621.8	2541.4	2440.4	2333.1
22.5°	2922.1	2922.4	2917.2	2901.1	2870.4	2830.3	2769.2	2689.0	2591.5	2481.7	2374.4
25°	2839.1	2836.3	2842.5	2860.4	2848.7	2836.3	2801.3	2741.5	2650.8	2534.5	2419.1
27.5°	2530.6	2549.5	2584.5	2628.5	2670.8	2703.1	2712.2	2699.9	2643.7	2548.2	2427.2
30°	2308.4	2331.8	2357.9	2401.8	2487.2	2535.9	2589.5	2630.1	2607.5	2531.2	2418.4
32.5°	2064.2	2070.0	2108.8	2158.8	2236.9	2330.8	2415.8	2498.1	2525.5	2485.4	2391.4
35°	1678.7	1688.3	1730.3	1779.8	1875.3	1990.1	2118.0	2232.1	2326.2	2364.0	2315.9
37.5°	1369.9	1397.6	1427.1	1480.3	1564.4	1667.8	1800.7	1948.4	2088.7	2182.7	2198.6
40°	1223.7	1240.8	1262.1	1302.7	1374.2	1475.9	1590.0	1759.1	1908.3	2043.1	2087.1
42.5°	1108.1	1118.2	1131.3	1167.9	1222.4	1323.6	1427.8	1576.6	1726.3	1887.4	1961.1
45°	941.8	952.1	974.0	995.4	1036.6	1106.7	1203.7	1326.0	1476.6	1631.9	1768.1
47.5°	821.7	828.2	841.3	864.1	899.1	945.4	1024.2	1126.4	1266.0	1416.8	1561.9
50°	753.5	758.9	769.2	789.9	816.7	857.9	922.6	1018.0	1127.4	1279.3	1421.6
52.5°	699.6	701.7	709.3	723.3	744.6	779.3	832.3	911.4	1013.0	1148.4	1290.2
55°	616.0	618.7	625.6	635.8	654.4	676.4	717.0	776.1	864.8	982.3	1105.4
57.5°	547.2	549.1	554.9	558.9	574.1	592.0	623.2	665.5	732.6	832.3	942.2
60°	503.2	501.8	508.7	512.1	522.5	537.6	561.6	602.2	660.6	741.1	842.1
62.5°	460.3	458.4	464.2	468.7	474.6	487.5	507.2	539.0	586.3	659.1	746.4
65°	396.0	393.2	396.7	402.2	407.7	414.5	429.0	457.1	495.0	547.2	613.9
67.5°	331.3	334.2	334.8	337.5	340.7	350.1	359.9	379.9	406.6	448.3	504.9
70°	292.8	293.5	296.3	296.3	298.3	306.6	314.9	326.5	352.7	391.2	437.2
72.5°	254.3	257.3	256.1	258.3	259.8	265.4	271.4	282.5	304.8	333.4	372.3
75°	197.9	200.0	200.0	200.7	202.8	204.8	209.7	217.9	233.8	255.0	281.8
77.5°	144.4	144.6	145.6	148.1	148.1	151.4	155.0	161.5	169.4	184.0	200.4
80°	111.3	112.7	112.0	113.4	113.4	116.1	117.5	125.8	129.2	138.9	151.9
82.5°	81.7	83.0	82.9	84.8	85.9	86.4	88.4	91.7	95.1	103.7	109.0
85°	41.2	42.6	41.2	42.6	44.7	45.4	47.4	48.1	50.9	53.0	57.8
87.5°	15.1	16.6	16.6	17.1	18.2	18.6	19.0	18.3	20.4	20.8	22.9
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: P332680-935  
 CATALOG NUMBER: SA4XXDIP-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: P332680-935

CATALOG NUMBER: SA4XXDIP-C1195D590U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1712.8	1705.1	1699.6	1695.2	1683.1	1675.9	1670.4	1662.8	1654.0	1644.6	1633.1
5°	1810.0	1786.7	1769.4	1743.4	1718.6	1698.0	1676.6	1657.4	1634.0	1608.6	1590.0
7.5°	1912.2	1877.4	1832.8	1794.2	1750.8	1713.0	1679.1	1644.5	1608.4	1573.6	1541.5
10°	1977.0	1932.3	1882.8	1824.5	1769.4	1720.6	1675.2	1631.3	1588.6	1546.0	1509.6
12.5°	2046.9	1991.2	1918.0	1849.8	1788.1	1722.9	1668.1	1614.2	1562.8	1518.0	1475.5
15°	2140.7	2060.2	1975.7	1884.2	1803.1	1726.8	1651.9	1583.8	1526.1	1467.0	1425.7
17.5°	2198.3	2098.8	2002.1	1906.5	1808.4	1712.1	1631.3	1552.8	1480.5	1421.8	1369.8
20°	2236.2	2137.3	2016.9	1921.4	1804.5	1705.6	1612.1	1524.7	1449.1	1386.6	1332.9
22.5°	2269.3	2154.8	2034.5	1908.8	1792.4	1687.4	1585.1	1497.2	1420.0	1354.1	1302.7
25°	2287.1	2155.8	2025.2	1900.1	1768.1	1643.6	1550.8	1447.8	1365.2	1295.8	1240.8
27.5°	2289.1	2148.6	2000.9	1861.8	1725.6	1609.7	1492.5	1400.4	1314.7	1241.4	1188.6
30°	2282.9	2136.6	1977.7	1827.2	1690.4	1564.6	1462.8	1362.5	1275.2	1202.3	1147.3
32.5°	2263.7	2111.3	1948.0	1788.7	1646.9	1523.9	1418.8	1323.4	1238.4	1166.6	1108.8
35°	2208.0	2057.4	1883.5	1717.9	1572.9	1448.5	1353.6	1256.6	1171.4	1103.4	1047.7
37.5°	2121.0	1984.9	1808.1	1636.7	1494.2	1369.2	1275.2	1187.6	1110.8	1041.6	984.6
40°	2045.1	1925.5	1748.2	1581.1	1427.1	1308.2	1220.2	1139.8	1063.4	998.2	943.8
42.5°	1957.7	1853.5	1689.9	1512.9	1364.4	1244.9	1159.2	1086.9	1015.0	954.7	900.4
45°	1801.7	1733.0	1579.1	1415.4	1260.8	1148.0	1066.2	1003.0	942.5	883.4	838.0
47.5°	1622.5	1588.4	1458.7	1303.4	1156.5	1045.4	974.5	916.1	863.0	813.0	772.9
50°	1502.0	1485.6	1373.5	1223.7	1083.4	978.9	907.4	857.2	811.8	767.8	730.0
52.5°	1383.3	1382.7	1281.7	1144.4	1014.7	914.0	843.1	796.2	756.9	721.1	687.2
55°	1201.6	1220.9	1141.9	1019.4	903.3	812.5	748.6	706.7	679.2	649.6	624.2
57.5°	1034.8	1066.8	1001.6	893.8	796.9	713.3	657.6	626.1	596.8	578.9	560.4
60°	926.0	956.2	905.3	814.6	723.2	651.7	598.7	570.6	545.1	532.8	519.7
62.5°	829.1	856.1	818.5	734.3	655.0	586.3	541.6	514.4	497.3	483.8	475.2
65°	690.9	713.6	681.2	620.1	552.0	497.1	460.5	439.3	422.8	417.2	407.7
67.5°	558.4	579.1	561.6	509.6	455.0	413.5	385.0	364.5	354.7	349.9	343.0
70°	479.8	500.4	481.9	436.5	394.6	359.6	332.7	321.1	310.7	308.7	299.0
72.5°	413.3	427.3	408.7	373.2	337.4	307.8	287.1	274.8	269.5	265.8	260.5
75°	310.0	322.4	310.0	282.5	257.1	236.5	218.6	213.8	207.6	205.5	202.1
77.5°	219.5	230.1	220.7	203.5	184.5	168.6	158.9	152.7	151.4	147.8	149.5
80°	167.7	174.6	165.7	153.9	138.9	127.9	121.0	117.5	113.4	112.0	114.8
82.5°	120.5	123.5	118.9	111.1	99.8	92.6	88.0	84.0	83.2	83.4	83.4
85°	62.6	61.9	61.2	54.3	50.9	46.1	43.3	42.6	41.9	43.3	44.7
87.5°	22.7	23.1	22.4	20.0	18.1	16.2	15.4	14.6	15.4	16.2	17.0
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: P332680-935

CATALOG NUMBER: SA4XXDIP-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: P332680-935

CATALOG NUMBER: SA4XXDIP-C1195D590U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1627.5	1622.6	1615.5	1605.6	1597.3	1588.5	1586.3	1583.0	1589.6	1584.2	1582.4
5°	1574.3	1559.8	1541.2	1519.9	1507.5	1489.7	1486.3	1479.4	1472.5	1471.8	1464.9
7.5°	1517.7	1496.5	1472.2	1450.4	1430.4	1410.9	1398.1	1395.3	1385.2	1379.2	1372.3
10°	1481.4	1455.3	1427.1	1406.5	1383.1	1362.5	1348.1	1339.8	1332.9	1325.3	1318.5
12.5°	1438.6	1410.7	1387.5	1365.2	1337.5	1321.8	1298.0	1283.8	1282.4	1282.5	1264.6
15°	1388.6	1361.2	1325.3	1293.7	1278.6	1248.4	1235.3	1218.8	1208.5	1198.2	1190.0
17.5°	1331.5	1297.4	1269.4	1233.1	1204.3	1180.2	1163.0	1153.1	1137.6	1123.0	1112.4
20°	1295.8	1259.4	1229.9	1191.3	1159.7	1130.1	1115.7	1102.0	1090.3	1077.9	1066.2
22.5°	1259.5	1221.4	1185.3	1147.9	1118.4	1087.3	1073.3	1054.6	1043.5	1036.6	1024.9
25°	1202.3	1161.1	1119.8	1084.1	1053.9	1026.3	1007.8	993.3	980.9	975.4	967.9
27.5°	1140.1	1099.2	1059.4	1018.7	984.4	964.5	949.6	938.7	931.6	924.3	920.9
30°	1100.6	1058.0	1015.4	977.5	945.9	926.0	912.2	904.7	899.1	895.7	892.3
32.5°	1060.4	1018.4	973.5	939.0	910.7	892.9	882.5	874.9	872.2	871.0	869.8
35°	996.1	953.5	912.2	881.3	854.5	847.6	838.7	834.6	833.2	838.0	840.1
37.5°	933.8	894.2	856.3	826.3	808.7	798.7	795.7	795.7	800.7	804.9	809.9
40°	893.6	855.1	819.4	793.3	776.8	770.6	769.2	772.7	778.2	783.0	788.5
42.5°	854.6	816.7	784.2	759.7	748.2	742.5	743.4	746.8	754.5	760.4	768.7
45°	794.0	762.3	730.7	710.8	701.2	702.6	702.6	708.8	716.3	725.2	734.2
47.5°	736.9	705.1	679.1	662.3	657.3	656.1	660.0	668.0	678.9	689.9	702.4
50°	698.4	668.2	645.5	630.3	624.9	627.0	632.4	640.0	653.1	666.8	679.8
52.5°	659.4	631.9	610.9	596.8	593.0	596.7	602.2	614.2	625.6	640.4	656.3
55°	598.7	575.4	558.9	548.5	547.2	549.2	555.4	568.5	585.0	603.6	618.7
57.5°	538.4	518.8	503.8	496.6	497.3	499.2	509.4	525.0	542.5	562.3	581.9
60°	497.7	479.8	467.4	461.9	462.6	466.7	479.1	493.6	515.6	534.9	555.4
62.5°	459.2	443.5	431.7	426.8	425.8	434.9	446.7	461.7	483.7	505.1	527.4
65°	397.4	385.0	375.3	372.6	374.6	381.5	396.7	416.6	435.1	457.8	481.2
67.5°	336.8	326.7	320.0	321.3	323.8	334.0	346.6	363.8	384.9	408.4	431.4
70°	298.3	288.7	283.2	283.9	288.0	300.4	311.4	328.6	351.3	375.3	394.6
72.5°	258.7	252.4	247.5	250.4	254.5	263.0	276.7	293.9	313.9	336.3	356.6
75°	198.6	198.6	195.9	197.9	204.1	212.4	222.7	240.6	260.5	278.4	294.9
77.5°	147.4	145.9	147.7	150.2	153.7	163.5	175.3	188.0	203.1	220.9	234.5
80°	112.7	113.4	116.8	121.0	122.3	129.9	142.3	153.9	165.7	180.8	193.9
82.5°	84.7	85.4	87.1	92.4	93.8	101.9	109.9	121.6	132.2	142.3	153.2
85°	46.1	46.1	49.5	51.6	55.0	60.5	65.3	72.2	81.8	88.7	99.0
87.5°	18.9	19.0	21.4	22.7	24.5	27.5	28.7	34.9	37.2	40.1	45.1
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: P332680-935

CATALOG NUMBER: SA4XXDIP-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: P332680-935

CATALOG NUMBER: SA4XXDIP-C1195D590U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1581.4	1580.3	1576.4	1575.9	1576.4	1580.3	1581.4	1582.4	1584.2	1589.6	1583.0
5°	1460.8	1457.3	1455.3	1462.8	1455.3	1457.3	1460.8	1464.9	1471.8	1472.5	1479.4
7.5°	1369.9	1367.2	1361.2	1359.2	1361.2	1367.2	1369.9	1372.3	1379.2	1385.2	1395.3
10°	1311.6	1308.9	1303.4	1302.0	1303.4	1308.9	1311.6	1318.5	1325.3	1332.9	1339.8
12.5°	1255.5	1250.0	1249.0	1250.3	1249.0	1250.0	1255.5	1264.6	1282.5	1282.4	1283.8
15°	1181.0	1178.3	1170.7	1172.8	1170.7	1178.3	1181.0	1190.0	1198.2	1208.5	1218.8
17.5°	1107.6	1104.3	1095.1	1103.2	1095.1	1104.3	1107.6	1112.4	1123.0	1137.6	1153.1
20°	1061.4	1055.9	1051.1	1050.4	1051.1	1055.9	1061.4	1066.2	1077.9	1090.3	1102.0
22.5°	1017.4	1012.4	1012.0	1007.5	1012.0	1012.4	1017.4	1024.9	1036.6	1043.5	1054.6
25°	962.4	957.6	956.2	952.8	956.2	957.6	962.4	967.9	975.4	980.9	993.3
27.5°	920.2	917.8	915.4	916.4	915.4	917.8	920.2	920.9	924.3	931.6	938.7
30°	894.3	893.6	892.3	892.3	892.3	893.6	894.3	892.3	895.7	899.1	904.7
32.5°	872.9	872.8	873.6	873.6	873.6	872.8	872.9	869.8	871.0	872.2	874.9
35°	842.8	844.8	846.2	844.1	846.2	844.8	842.8	840.1	838.0	833.2	834.6
37.5°	815.5	817.6	819.6	821.9	819.6	817.6	815.5	809.9	804.9	800.7	795.7
40°	794.7	799.5	800.8	804.3	800.8	799.5	794.7	788.5	783.0	778.2	772.7
42.5°	774.9	780.2	783.8	784.5	783.8	780.2	774.9	768.7	760.4	754.5	746.8
45°	744.5	750.0	754.8	754.8	754.8	750.0	744.5	734.2	725.2	716.3	708.8
47.5°	713.0	721.0	725.8	727.0	725.8	721.0	713.0	702.4	689.9	678.9	668.0
50°	691.6	701.2	706.0	709.5	706.0	701.2	691.6	679.8	666.8	653.1	640.0
52.5°	670.6	680.3	686.7	688.5	686.7	680.3	670.6	656.3	640.4	625.6	614.2
55°	634.5	648.2	655.8	658.6	655.8	648.2	634.5	618.7	603.6	585.0	568.5
57.5°	600.4	613.0	621.8	623.9	621.8	613.0	600.4	581.9	562.3	542.5	525.0
60°	574.0	587.7	598.7	600.8	598.7	587.7	574.0	555.4	534.9	515.6	493.6
62.5°	547.1	561.4	571.3	576.6	571.3	561.4	547.1	527.4	505.1	483.7	461.7
65°	500.4	514.9	524.5	526.6	524.5	514.9	500.4	481.2	457.8	435.1	416.6
67.5°	449.6	464.0	470.4	474.3	470.4	464.0	449.6	431.4	408.4	384.9	363.8
70°	413.8	425.5	432.4	435.8	432.4	425.5	413.8	394.6	375.3	351.3	328.6
72.5°	373.2	385.4	393.4	394.0	393.4	385.4	373.2	356.6	336.3	313.9	293.9
75°	310.7	321.8	325.8	325.8	325.8	321.8	310.7	294.9	278.4	260.5	240.6
77.5°	246.0	251.6	256.8	258.0	256.8	251.6	246.0	234.5	220.9	203.1	188.0
80°	204.1	207.6	211.7	211.7	211.7	207.6	204.1	193.9	180.8	165.7	153.9
82.5°	161.3	164.2	168.3	167.7	168.3	164.2	161.3	153.2	142.3	132.2	121.6
85°	97.6	103.8	103.1	101.8	103.1	103.8	97.6	99.0	88.7	81.8	72.2
87.5°	46.8	47.4	49.1	50.3	49.1	47.4	46.8	45.1	40.1	37.2	34.9
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: P332680-935

CATALOG NUMBER: SA4XXDIP-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: P332680-935

CATALOG NUMBER: SA4XXDIP-C1195D590U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1586.3	1588.5	1597.3	1605.6	1615.5	1622.6	1627.5	1633.1	1644.6	1654.0	1662.8
5°	1486.3	1489.7	1507.5	1519.9	1541.2	1559.8	1574.3	1590.0	1608.6	1634.0	1657.4
7.5°	1398.1	1410.9	1430.4	1450.4	1472.2	1496.5	1517.7	1541.5	1573.6	1608.4	1644.5
10°	1348.1	1362.5	1383.1	1406.5	1427.1	1455.3	1481.4	1509.6	1546.0	1588.6	1631.3
12.5°	1298.0	1321.8	1337.5	1365.2	1387.5	1410.7	1438.6	1475.5	1518.0	1562.8	1614.2
15°	1235.3	1248.4	1278.6	1293.7	1325.3	1361.2	1388.6	1425.7	1467.0	1526.1	1583.8
17.5°	1163.0	1180.2	1204.3	1233.1	1269.4	1297.4	1331.5	1369.8	1421.8	1480.5	1552.8
20°	1115.7	1130.1	1159.7	1191.3	1229.9	1259.4	1295.8	1332.9	1386.6	1449.1	1524.7
22.5°	1073.3	1087.3	1118.4	1147.9	1185.3	1221.4	1259.5	1302.7	1354.1	1420.0	1497.2
25°	1007.8	1026.3	1053.9	1084.1	1119.8	1161.1	1202.3	1240.8	1295.8	1365.2	1447.8
27.5°	949.6	964.5	984.4	1018.7	1059.4	1099.2	1140.1	1188.6	1241.4	1314.7	1400.4
30°	912.2	926.0	945.9	977.5	1015.4	1058.0	1100.6	1147.3	1202.3	1275.2	1362.5
32.5°	882.5	892.9	910.7	939.0	973.5	1018.4	1060.4	1108.8	1166.6	1238.4	1323.4
35°	838.7	847.6	854.5	881.3	912.2	953.5	996.1	1047.7	1103.4	1171.4	1256.6
37.5°	795.7	798.7	808.7	826.3	856.3	894.2	933.8	984.6	1041.6	1110.8	1187.6
40°	769.2	770.6	776.8	793.3	819.4	855.1	893.6	943.8	998.2	1063.4	1139.8
42.5°	743.4	742.5	748.2	759.7	784.2	816.7	854.6	900.4	954.7	1015.0	1086.9
45°	702.6	702.6	701.2	710.8	730.7	762.3	794.0	838.0	883.4	942.5	1003.0
47.5°	660.0	656.1	657.3	662.3	679.1	705.1	736.9	772.9	813.0	863.0	916.1
50°	632.4	627.0	624.9	630.3	645.5	668.2	698.4	730.0	767.8	811.8	857.2
52.5°	602.2	596.7	593.0	596.8	610.9	631.9	659.4	687.2	721.1	756.9	796.2
55°	555.4	549.2	547.2	548.5	558.9	575.4	598.7	624.2	649.6	679.2	706.7
57.5°	509.4	499.2	497.3	496.6	503.8	518.8	538.4	560.4	578.9	596.8	626.1
60°	479.1	466.7	462.6	461.9	467.4	479.8	497.7	519.7	532.8	545.1	570.6
62.5°	446.7	434.9	425.8	426.8	431.7	443.5	459.2	475.2	483.8	497.3	514.4
65°	396.7	381.5	374.6	372.6	375.3	385.0	397.4	407.7	417.2	422.8	439.3
67.5°	346.6	334.0	323.8	321.3	320.0	326.7	336.8	343.0	349.9	354.7	364.5
70°	311.4	300.4	288.0	283.9	283.2	288.7	298.3	299.0	308.7	310.7	321.1
72.5°	276.7	263.0	254.5	250.4	247.5	252.4	258.7	260.5	265.8	269.5	274.8
75°	222.7	212.4	204.1	197.9	195.9	198.6	198.6	202.1	205.5	207.6	213.8
77.5°	175.3	163.5	153.7	150.2	147.7	145.9	147.4	149.5	147.8	151.4	152.7
80°	142.3	129.9	122.3	121.0	116.8	113.4	112.7	114.8	112.0	113.4	117.5
82.5°	109.9	101.9	93.8	92.4	87.1	85.4	84.7	83.4	83.4	83.2	84.0
85°	65.3	60.5	55.0	51.6	49.5	46.1	46.1	44.7	43.3	41.9	42.6
87.5°	28.7	27.5	24.5	22.7	21.4	19.0	18.9	17.0	16.2	15.4	14.6
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: P332680-935

CATALOG NUMBER: SA4XXDIP-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: P332680-935

CATALOG NUMBER: SA4XXDIP-C1195D590U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1670.4	1675.9	1683.1	1695.2	1699.6	1705.1	1712.8	1712.3	1714.4	1722.7	1740.3
5°	1676.6	1698.0	1718.6	1743.4	1769.4	1786.7	1810.0	1824.5	1838.9	1857.4	1889.0
7.5°	1679.1	1713.0	1750.8	1794.2	1832.8	1877.4	1912.2	1944.9	1974.4	2013.6	2051.3
10°	1675.2	1720.6	1769.4	1824.5	1882.8	1932.3	1977.0	2027.9	2071.2	2118.7	2161.3
12.5°	1668.1	1722.9	1788.1	1849.8	1918.0	1991.2	2046.9	2098.3	2155.9	2210.5	2276.2
15°	1651.9	1726.8	1803.1	1884.2	1975.7	2060.2	2140.7	2207.3	2269.3	2351.0	2437.0
17.5°	1631.3	1712.1	1808.4	1906.5	2002.1	2098.8	2198.3	2298.5	2376.6	2478.2	2545.5
20°	1612.1	1705.6	1804.5	1921.4	2016.9	2137.3	2236.2	2333.1	2440.4	2541.4	2621.8
22.5°	1585.1	1687.4	1792.4	1908.8	2034.5	2154.8	2269.3	2374.4	2481.7	2591.5	2689.0
25°	1550.8	1643.6	1768.1	1900.1	2025.2	2155.8	2287.1	2419.1	2534.5	2650.8	2741.5
27.5°	1492.5	1609.7	1725.6	1861.8	2000.9	2148.6	2289.1	2427.2	2548.2	2643.7	2699.9
30°	1462.8	1564.6	1690.4	1827.2	1977.7	2136.6	2282.9	2418.4	2531.2	2607.5	2630.1
32.5°	1418.8	1523.9	1646.9	1788.7	1948.0	2111.3	2263.7	2391.4	2485.4	2525.5	2498.1
35°	1353.6	1448.5	1572.9	1717.9	1883.5	2057.4	2208.0	2315.9	2364.0	2326.2	2232.1
37.5°	1275.2	1369.2	1494.2	1636.7	1808.1	1984.9	2121.0	2198.6	2182.7	2088.7	1948.4
40°	1220.2	1308.2	1427.1	1581.1	1748.2	1925.5	2045.1	2087.1	2043.1	1908.3	1759.1
42.5°	1159.2	1244.9	1364.4	1512.9	1689.9	1853.5	1957.7	1961.1	1887.4	1726.3	1576.6
45°	1066.2	1148.0	1260.8	1415.4	1579.1	1733.0	1801.7	1768.1	1631.9	1476.6	1326.0
47.5°	974.5	1045.4	1156.5	1303.4	1458.7	1588.4	1622.5	1561.9	1416.8	1266.0	1126.4
50°	907.4	978.9	1083.4	1223.7	1373.5	1485.6	1502.0	1421.6	1279.3	1127.4	1018.0
52.5°	843.1	914.0	1014.7	1144.4	1281.7	1382.7	1383.3	1290.2	1148.4	1013.0	911.4
55°	748.6	812.5	903.3	1019.4	1141.9	1220.9	1201.6	1105.4	982.3	864.8	776.1
57.5°	657.6	713.3	796.9	893.8	1001.6	1066.8	1034.8	942.2	832.3	732.6	665.5
60°	598.7	651.7	723.2	814.6	905.3	956.2	926.0	842.1	741.1	660.6	602.2
62.5°	541.6	586.3	655.0	734.3	818.5	856.1	829.1	746.4	659.1	586.3	539.0
65°	460.5	497.1	552.0	620.1	681.2	713.6	690.9	613.9	547.2	495.0	457.1
67.5°	385.0	413.5	455.0	509.6	561.6	579.1	558.4	504.9	448.3	406.6	379.9
70°	332.7	359.6	394.6	436.5	481.9	500.4	479.8	437.2	391.2	352.7	326.5
72.5°	287.1	307.8	337.4	373.2	408.7	427.3	413.3	372.3	333.4	304.8	282.5
75°	218.6	236.5	257.1	282.5	310.0	322.4	310.0	281.8	255.0	233.8	217.9
77.5°	158.9	168.6	184.5	203.5	220.7	230.1	219.5	200.4	184.0	169.4	161.5
80°	121.0	127.9	138.9	153.9	165.7	174.6	167.7	151.9	138.9	129.2	125.8
82.5°	88.0	92.6	99.8	111.1	118.9	123.5	120.5	109.0	103.7	95.1	91.7
85°	43.3	46.1	50.9	54.3	61.2	61.9	62.6	57.8	53.0	50.9	48.1
87.5°	15.4	16.2	18.1	20.0	22.4	23.1	22.7	22.9	20.8	20.4	18.3
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: P332680-935

CATALOG NUMBER: SA4XXDIP-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: P332680-935

CATALOG NUMBER: SA4XXDIP-C1195D590U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1749.1	1750.2	1755.1	1759.0	1760.1	1765.6	1766.2
5°	1902.8	1914.5	1937.2	1939.2	1942.7	1960.6	1946.8
7.5°	2082.9	2112.6	2132.4	2149.9	2156.2	2164.0	2162.4
10°	2198.4	2242.4	2264.4	2299.5	2300.9	2309.8	2304.3
12.5°	2314.5	2365.6	2405.7	2412.2	2441.6	2446.2	2453.8
15°	2478.9	2533.1	2588.9	2608.8	2649.4	2659.0	2674.1
17.5°	2633.5	2689.0	2728.0	2779.6	2796.2	2818.5	2803.3
20°	2718.1	2778.6	2828.1	2868.7	2885.8	2898.2	2896.8
22.5°	2769.2	2830.3	2870.4	2901.1	2917.2	2922.4	2922.1
25°	2801.3	2836.3	2848.7	2860.4	2842.5	2836.3	2839.1
27.5°	2712.2	2703.1	2670.8	2628.5	2584.5	2549.5	2530.6
30°	2589.5	2535.9	2487.2	2401.8	2357.9	2331.8	2308.4
32.5°	2415.8	2330.8	2236.9	2158.8	2108.8	2070.0	2064.2
35°	2118.0	1990.1	1875.3	1779.8	1730.3	1688.3	1678.7
37.5°	1800.7	1667.8	1564.4	1480.3	1427.1	1397.6	1369.9
40°	1590.0	1475.9	1374.2	1302.7	1262.1	1240.8	1223.7
42.5°	1427.8	1323.6	1222.4	1167.9	1131.3	1118.2	1108.1
45°	1203.7	1106.7	1036.6	995.4	974.0	952.1	941.8
47.5°	1024.2	945.4	899.1	864.1	841.3	828.2	821.7
50°	922.6	857.9	816.7	789.9	769.2	758.9	753.5
52.5°	832.3	779.3	744.6	723.3	709.3	701.7	699.6
55°	717.0	676.4	654.4	635.8	625.6	618.7	616.0
57.5°	623.2	592.0	574.1	558.9	554.9	549.1	547.2
60°	561.6	537.6	522.5	512.1	508.7	501.8	503.2
62.5°	507.2	487.5	474.6	468.7	464.2	458.4	460.3
65°	429.0	414.5	407.7	402.2	396.7	393.2	396.0
67.5°	359.9	350.1	340.7	337.5	334.8	334.2	331.3
70°	314.9	306.6	298.3	296.3	296.3	293.5	292.8
72.5°	271.4	265.4	259.8	258.3	256.1	257.3	254.3
75°	209.7	204.8	202.8	200.7	200.0	200.0	197.9
77.5°	155.0	151.4	148.1	148.1	145.6	144.6	144.4
80°	117.5	116.1	113.4	113.4	112.0	112.7	111.3
82.5°	88.4	86.4	85.9	84.8	82.9	83.0	81.7
85°	47.4	45.4	44.7	42.6	41.2	42.6	41.2
87.5°	19.0	18.6	18.2	17.1	16.6	16.6	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: P332680-935

CATALOG NUMBER: SA4XXDIP-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)