

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: P332690-935

Luminaire Tested: **SA4XXDIP-C1195D810U935-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332690-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXDIP-C1195D810U935-4F0-1E-UDD-A4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

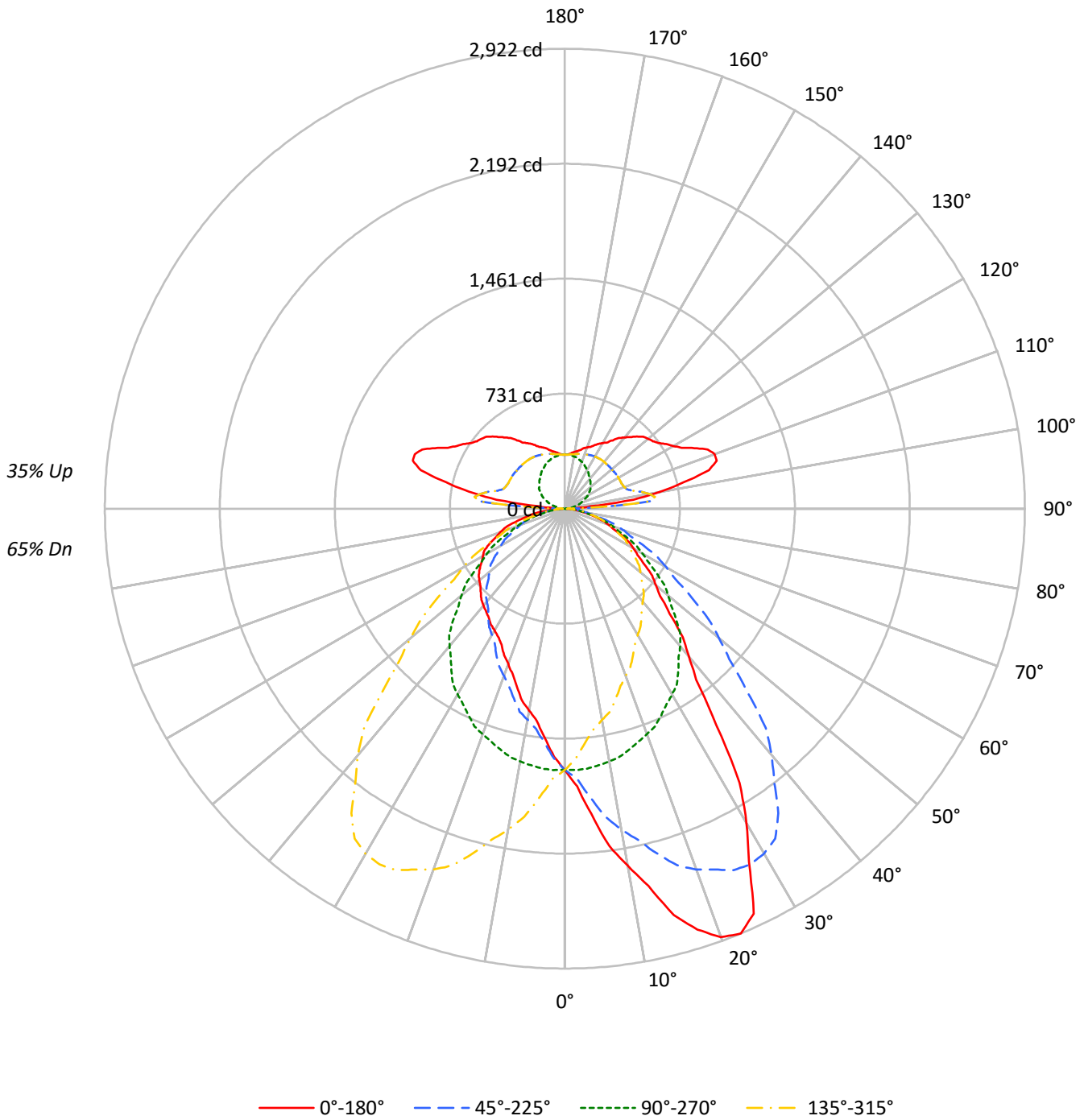
Lumens per Lamp: N/A  
Luminaire Lumens: 7072.6 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 60.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70	65				
1	101	97	93	90	95	91	88	85	81	78	76	71	69	67	62	61	59	55				
2	93	85	79	74	87	80	75	70	71	67	63	63	60	57	55	53	51	47				
3	85	75	68	62	79	71	64	59	63	58	54	56	52	48	49	46	43	40				
4	78	67	59	53	73	63	56	50	56	51	46	50	45	42	44	40	38	34				
5	71	60	51	45	67	57	49	44	51	45	40	45	40	36	40	36	33	30				
6	66	54	46	40	62	51	44	38	46	40	35	41	36	32	36	32	29	27				
7	61	49	41	35	57	46	39	34	42	35	31	37	32	29	33	29	26	24				
8	57	44	36	31	53	42	35	30	38	32	28	34	29	26	30	26	23	21				
9	53	41	33	28	50	39	32	27	35	29	25	31	27	23	28	24	21	19				
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	26	22	19	17				

**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	2.3
10°-20°	498.3	7.0
20°-30°	790.2	11.2
30°-40°	879.4	12.4
40°-50°	800.5	11.3
50°-60°	654.1	9.2
60°-70°	467.0	6.6
70°-80°	257.1	3.6
80°-90°	72.1	1.0
90°-100°	247.5	3.5
100°-110°	515.1	7.3
110°-120°	461.4	6.5
120°-130°	388.1	5.5
130°-140°	323.6	4.6
140°-150°	247.2	3.5
150°-160°	173.8	2.5
160°-170°	102.2	1.4
170°-180°	33.3	0.5
0°-30°	1450.2	20.5
0°-40°	2329.6	32.9
0°-60°	3784.2	53.5
0°-90°	4580.4	64.8
90°-120°	1224.0	17.3
90°-150°	2183.0	30.9
90°-180°	2492.0	35.2
0°-180°	7072.6	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°	14	1	14	1	14	13
95°	164	22	164	22	164	255
105°	947	79	947	79	947	937
115°	910	139	910	139	910	903
125°	726	193	726	193	726	659
135°	649	230	649	230	649	501
145°	530	265	530	265	530	336
155°	444	301	444	301	444	207
165°	387	328	387	328	387	111
175°	349	342	349	342	349	34
180°	343	343	343	343	343	



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**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°	14.9	16.6	16.7	17.1	18.1	18.7	19.0	18.3	20.4	21.1	23.1
90°	14.1	14.1	14.8	14.1	13.4	13.4	12.8	12.1	11.5	12.1	10.8
92.5°	51.8	51.8	54.2	57.8	65.7	79.2	99.5	132.2	177.9	213.5	186.9
95°	164.3	173.1	185.1	206.0	239.0	304.3	394.5	498.9	564.2	548.7	414.1
97.5°	439.1	453.1	473.3	513.8	562.1	632.4	698.3	737.0	708.8	577.9	387.5
100°	617.3	622.8	642.9	684.0	742.6	792.4	825.4	811.9	713.6	541.3	351.5
102.5°	772.5	776.8	798.1	827.9	863.8	884.5	874.9	808.1	673.2	495.5	327.2
105°	947.3	951.3	960.7	966.1	964.8	937.1	870.5	754.1	599.9	441.6	306.3
107.5°	1012.1	1010.4	1003.7	988.3	955.0	895.0	801.2	677.2	540.6	411.5	302.6
110°	1013.2	1007.2	995.1	966.7	918.9	844.9	747.3	630.9	511.0	401.2	303.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	981.5	971.6	954.7	920.4	866.2	792.1	699.9	596.9	494.3	396.4	306.9
115°	909.6	904.1	882.6	842.2	789.0	724.4	645.7	562.8	478.6	393.8	313.1
117.5°	836.7	832.5	810.7	776.8	731.4	676.6	614.7	546.1	471.7	393.1	319.7
120°	795.7	788.3	770.9	741.2	702.8	655.0	601.2	538.6	467.9	393.1	324.5
122.5°	763.4	756.0	741.2	715.9	683.5	641.6	592.5	532.1	463.6	392.6	329.3
125°	725.7	721.7	708.9	689.4	662.5	625.4	579.0	521.1	456.4	391.8	336.7
127.5°	703.7	699.6	688.9	671.5	644.5	609.2	562.9	507.6	446.9	390.4	342.4
130°	690.8	686.7	676.0	659.1	631.5	595.8	550.0	496.9	441.0	389.8	346.7
132.5°	676.2	672.2	661.9	642.9	615.9	580.2	535.5	485.5	435.6	389.3	350.5
135°	649.0	645.0	634.2	615.4	588.4	554.7	513.7	469.9	427.5	388.5	356.1
137.5°	615.4	610.4	601.6	583.0	557.8	527.4	492.8	455.8	420.5	388.3	359.5
140°	591.1	585.7	576.3	561.5	538.0	509.6	479.3	447.7	416.7	387.8	362.2
142.5°	565.2	561.5	553.1	539.4	518.5	494.0	468.0	440.1	413.5	387.8	364.4
145°	529.9	526.5	519.7	508.3	491.5	472.6	452.5	429.6	407.9	386.4	365.6
147.5°	498.4	497.2	492.1	482.3	469.9	455.1	438.9	420.8	403.0	384.0	366.3
150°	480.7	480.0	476.0	467.3	456.4	444.4	430.8	415.3	399.2	382.4	366.3
152.5°	464.5	463.8	461.4	454.3	445.1	435.1	422.8	409.5	394.9	379.7	365.2
155°	443.7	443.7	441.6	436.3	429.6	421.5	411.4	400.5	388.5	375.7	363.5
157.5°	425.3	425.3	424.1	420.1	415.0	408.5	400.0	391.0	381.9	371.5	361.8
160°	414.1	414.1	413.4	409.3	405.3	399.9	392.5	385.1	377.0	368.2	360.2
162.5°	403.3	403.8	403.1	399.1	396.1	391.3	385.5	379.2	372.7	365.1	358.6
165°	387.1	387.8	388.5	385.7	383.1	379.7	375.0	370.9	365.6	360.2	355.5
167.5°	374.3	374.9	375.0	373.2	371.9	369.9	366.1	363.0	359.1	355.3	352.2
170°	366.3	366.3	366.9	366.3	364.9	362.9	360.2	358.2	354.8	352.1	350.1
172.5°	358.2	359.2	359.9	359.2	358.4	357.0	355.3	353.9	351.0	348.9	347.9
175°	348.7	350.1	351.5	350.1	350.1	350.1	348.7	348.1	346.7	345.3	345.3
177.5°	343.2	344.3	345.3	344.8	345.3	344.8	344.8	344.3	343.7	343.2	343.2
180°	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7



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**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°	22.8	23.3	22.0	19.8	18.0	16.2	15.2	14.5	15.2	16.2	16.9
90°	9.4	9.4	5.4	5.4	4.7	4.0	2.0	0.7	2.0	4.0	4.7
92.5°	136.0	83.8	49.5	35.6	25.7	17.5	11.2	7.7	11.2	17.5	25.7
95°	253.1	142.8	84.1	55.9	39.7	31.0	24.2	22.2	24.2	31.0	39.7
97.5°	227.6	136.4	91.3	67.6	53.7	45.6	39.9	39.9	39.9	45.6	53.7
100°	214.1	138.0	98.3	76.7	64.0	55.9	51.1	51.1	51.1	55.9	64.0
102.5°	210.3	143.4	107.5	87.0	74.7	67.2	63.0	61.9	63.0	67.2	74.7
105°	212.1	156.2	123.9	104.4	92.2	84.1	80.8	78.8	80.8	84.1	92.2
107.5°	222.1	171.2	141.5	122.3	110.6	102.0	98.7	97.4	98.7	102.0	110.6
110°	229.5	182.4	152.8	134.7	122.5	114.4	111.1	109.8	111.1	114.4	122.5





TEST NUMBER: P332690-935

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	237.6	193.2	164.7	146.5	134.4	126.8	123.0	121.6	123.0	126.8	134.4
115°	250.5	210.1	183.1	165.0	152.1	145.4	140.7	138.7	140.7	145.4	152.1
117.5°	263.5	226.4	200.8	181.9	170.0	162.6	158.3	156.4	158.3	162.6	170.0
120°	272.7	237.6	212.1	193.2	181.8	174.4	169.6	168.3	169.6	174.4	181.8
122.5°	281.3	248.4	222.8	204.5	192.0	185.1	180.5	179.1	180.5	185.1	192.0
125°	294.2	263.2	239.0	220.2	207.3	199.9	195.9	193.2	195.9	199.9	207.3
127.5°	305.4	277.0	253.6	234.5	221.2	212.8	207.9	205.8	207.9	212.8	221.2
130°	312.4	286.1	263.2	243.7	230.9	220.8	215.4	212.8	215.4	220.8	230.9
132.5°	319.3	293.7	270.8	252.4	238.5	228.9	221.9	219.7	221.9	228.9	238.5
135°	328.6	304.3	282.1	264.6	250.5	239.0	232.3	229.5	232.3	239.0	250.5
137.5°	335.0	312.4	291.6	274.9	260.3	249.3	241.9	239.4	241.9	249.3	260.3
140°	339.3	317.8	297.6	281.4	267.3	255.8	248.4	246.4	248.4	255.8	267.3
142.5°	342.5	322.6	303.0	287.3	273.7	262.9	256.0	253.9	256.0	262.9	273.7
145°	346.0	327.9	310.4	295.6	282.8	273.4	266.6	264.6	266.6	273.4	282.8
147.5°	349.1	333.3	316.8	303.5	292.8	283.2	277.2	276.6	277.2	283.2	292.8
150°	350.8	336.0	321.2	308.3	298.3	290.2	284.8	284.1	284.8	290.2	298.3
152.5°	351.8	338.1	324.9	313.2	304.2	296.6	291.3	291.1	291.3	296.6	304.2
155°	352.8	341.3	329.8	319.8	312.4	305.7	301.6	300.9	301.6	305.7	312.4
157.5°	352.8	343.6	333.9	326.0	319.5	314.3	310.5	310.5	310.5	314.3	319.5
160°	352.8	344.7	336.7	329.2	323.8	319.1	316.4	316.4	316.4	319.1	323.8
162.5°	352.8	345.8	338.2	332.4	327.6	323.4	321.2	321.8	321.2	323.4	327.6
165°	351.5	346.0	340.0	336.0	332.6	329.2	327.9	327.9	327.9	329.2	332.6
167.5°	349.8	345.9	341.5	338.4	336.5	333.9	333.3	333.9	333.3	333.9	336.5
170°	348.7	345.3	342.0	340.0	338.6	336.7	336.0	336.7	336.0	336.7	338.6
172.5°	347.7	344.8	342.5	341.0	340.3	338.8	338.6	339.3	338.6	338.8	340.3
175°	346.0	344.1	342.7	342.7	342.0	341.3	341.3	342.0	341.3	341.3	342.0
177.5°	344.3	343.2	342.7	342.7	342.7	342.2	342.7	343.2	342.7	342.2	342.7
180°	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7



TEST NUMBER: P332690-935

CATALOG NUMBER: SA4XXDIP-C1195D810U935-4F0-1E-UDD-A4

**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°	18.7	18.7	21.7	22.8	24.7	27.7	28.7	34.9	37.2	40.1	45.0
90°	5.4	5.4	9.4	9.4	10.8	12.1	11.5	12.1	12.8	13.4	13.4
92.5°	35.6	49.5	83.8	136.0	186.9	213.5	177.9	132.2	99.5	79.2	65.7
95°	55.9	84.1	142.8	253.1	414.1	548.7	564.2	498.9	394.5	304.3	239.0
97.5°	67.6	91.3	136.4	227.6	387.5	577.9	708.8	737.0	698.3	632.4	562.1
100°	76.7	98.3	138.0	214.1	351.5	541.3	713.6	811.9	825.4	792.4	742.6
102.5°	87.0	107.5	143.4	210.3	327.2	495.5	673.2	808.1	874.9	884.5	863.8
105°	104.4	123.9	156.2	212.1	306.3	441.6	599.9	754.1	870.5	937.1	964.8
107.5°	122.3	141.5	171.2	222.1	302.6	411.5	540.6	677.2	801.2	895.0	955.0
110°	134.7	152.8	182.4	229.5	303.6	401.2	511.0	630.9	747.3	844.9	918.9



TEST NUMBER: P332690-935

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	146.5	164.7	193.2	237.6	306.9	396.4	494.3	596.9	699.9	792.1	866.2
115°	165.0	183.1	210.1	250.5	313.1	393.8	478.6	562.8	645.7	724.4	789.0
117.5°	181.9	200.8	226.4	263.5	319.7	393.1	471.7	546.1	614.7	676.6	731.4
120°	193.2	212.1	237.6	272.7	324.5	393.1	467.9	538.6	601.2	655.0	702.8
122.5°	204.5	222.8	248.4	281.3	329.3	392.6	463.6	532.1	592.5	641.6	683.5
125°	220.2	239.0	263.2	294.2	336.7	391.8	456.4	521.1	579.0	625.4	662.5
127.5°	234.5	253.6	277.0	305.4	342.4	390.4	446.9	507.6	562.9	609.2	644.5
130°	243.7	263.2	286.1	312.4	346.7	389.8	441.0	496.9	550.0	595.8	631.5
132.5°	252.4	270.8	293.7	319.3	350.5	389.3	435.6	485.5	535.5	580.2	615.9
135°	264.6	282.1	304.3	328.6	356.1	388.5	427.5	469.9	513.7	554.7	588.4
137.5°	274.9	291.6	312.4	335.0	359.5	388.3	420.5	455.8	492.8	527.4	557.8
140°	281.4	297.6	317.8	339.3	362.2	387.8	416.7	447.7	479.3	509.6	538.0
142.5°	287.3	303.0	322.6	342.5	364.4	387.8	413.5	440.1	468.0	494.0	518.5
145°	295.6	310.4	327.9	346.0	365.6	386.4	407.9	429.6	452.5	472.6	491.5
147.5°	303.5	316.8	333.3	349.1	366.3	384.0	403.0	420.8	438.9	455.1	469.9
150°	308.3	321.2	336.0	350.8	366.3	382.4	399.2	415.3	430.8	444.4	456.4
152.5°	313.2	324.9	338.1	351.8	365.2	379.7	394.9	409.5	422.8	435.1	445.1
155°	319.8	329.8	341.3	352.8	363.5	375.7	388.5	400.5	411.4	421.5	429.6
157.5°	326.0	333.9	343.6	352.8	361.8	371.5	381.9	391.0	400.0	408.5	415.0
160°	329.2	336.7	344.7	352.8	360.2	368.2	377.0	385.1	392.5	399.9	405.3
162.5°	332.4	338.2	345.8	352.8	358.6	365.1	372.7	379.2	385.5	391.3	396.1
165°	336.0	340.0	346.0	351.5	355.5	360.2	365.6	370.9	375.0	379.7	383.1
167.5°	338.4	341.5	345.9	349.8	352.2	355.3	359.1	363.0	366.1	369.9	371.9
170°	340.0	342.0	345.3	348.7	350.1	352.1	354.8	358.2	360.2	362.9	364.9
172.5°	341.0	342.5	344.8	347.7	347.9	348.9	351.0	353.9	355.3	357.0	358.4
175°	342.7	342.7	344.1	346.0	345.3	345.3	346.7	348.1	348.7	350.1	350.1
177.5°	342.7	342.7	343.2	344.3	343.2	343.2	343.7	344.3	344.8	344.8	345.3
180°	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7



TEST NUMBER: P332690-935

CATALOG NUMBER: SA4XXDIP-C1195D810U935-4F0-1E-UDD-A4

**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	47.5	49.0	50.1	49.0	47.5	46.8	45.0	40.1	37.2	34.9
90°	14.1	14.8	14.1	14.1	14.1	14.8	14.1	13.4	13.4	12.8	12.1
92.5°	57.8	54.2	51.8	51.8	51.8	54.2	57.8	65.7	79.2	99.5	132.2
95°	206.0	185.1	173.1	164.3	173.1	185.1	206.0	239.0	304.3	394.5	498.9
97.5°	513.8	473.3	453.1	439.1	453.1	473.3	513.8	562.1	632.4	698.3	737.0
100°	684.0	642.9	622.8	617.3	622.8	642.9	684.0	742.6	792.4	825.4	811.9
102.5°	827.9	798.1	776.8	772.5	776.8	798.1	827.9	863.8	884.5	874.9	808.1
105°	966.1	960.7	951.3	947.3	951.3	960.7	966.1	964.8	937.1	870.5	754.1
107.5°	988.3	1003.7	1010.4	1012.1	1010.4	1003.7	988.3	955.0	895.0	801.2	677.2
110°	966.7	995.1	1007.2	1013.2	1007.2	995.1	966.7	918.9	844.9	747.3	630.9



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	920.4	954.7	971.6	981.5	971.6	954.7	920.4	866.2	792.1	699.9	596.9
115°	842.2	882.6	904.1	909.6	904.1	882.6	842.2	789.0	724.4	645.7	562.8
117.5°	776.8	810.7	832.5	836.7	832.5	810.7	776.8	731.4	676.6	614.7	546.1
120°	741.2	770.9	788.3	795.7	788.3	770.9	741.2	702.8	655.0	601.2	538.6
122.5°	715.9	741.2	756.0	763.4	756.0	741.2	715.9	683.5	641.6	592.5	532.1
125°	689.4	708.9	721.7	725.7	721.7	708.9	689.4	662.5	625.4	579.0	521.1
127.5°	671.5	688.9	699.6	703.7	699.6	688.9	671.5	644.5	609.2	562.9	507.6
130°	659.1	676.0	686.7	690.8	686.7	676.0	659.1	631.5	595.8	550.0	496.9
132.5°	642.9	661.9	672.2	676.2	672.2	661.9	642.9	615.9	580.2	535.5	485.5
135°	615.4	634.2	645.0	649.0	645.0	634.2	615.4	588.4	554.7	513.7	469.9
137.5°	583.0	601.6	610.4	615.4	610.4	601.6	583.0	557.8	527.4	492.8	455.8
140°	561.5	576.3	585.7	591.1	585.7	576.3	561.5	538.0	509.6	479.3	447.7
142.5°	539.4	553.1	561.5	565.2	561.5	553.1	539.4	518.5	494.0	468.0	440.1
145°	508.3	519.7	526.5	529.9	526.5	519.7	508.3	491.5	472.6	452.5	429.6
147.5°	482.3	492.1	497.2	498.4	497.2	492.1	482.3	469.9	455.1	438.9	420.8
150°	467.3	476.0	480.0	480.7	480.0	476.0	467.3	456.4	444.4	430.8	415.3
152.5°	454.3	461.4	463.8	464.5	463.8	461.4	454.3	445.1	435.1	422.8	409.5
155°	436.3	441.6	443.7	443.7	443.7	441.6	436.3	429.6	421.5	411.4	400.5
157.5°	420.1	424.1	425.3	425.3	425.3	424.1	420.1	415.0	408.5	400.0	391.0
160°	409.3	413.4	414.1	414.1	414.1	413.4	409.3	405.3	399.9	392.5	385.1
162.5°	399.1	403.1	403.8	403.3	403.8	403.1	399.1	396.1	391.3	385.5	379.2
165°	385.7	388.5	387.8	387.1	387.8	388.5	385.7	383.1	379.7	375.0	370.9
167.5°	373.2	375.0	374.9	374.3	374.9	375.0	373.2	371.9	369.9	366.1	363.0
170°	366.3	366.9	366.3	366.3	366.3	366.9	366.3	364.9	362.9	360.2	358.2
172.5°	359.2	359.9	359.2	358.2	359.2	359.9	359.2	358.4	357.0	355.3	353.9
175°	350.1	351.5	350.1	348.7	350.1	351.5	350.1	350.1	350.1	348.7	348.1
177.5°	344.8	345.3	344.3	343.2	344.3	345.3	344.8	345.3	344.8	344.8	344.3
180°	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7



TEST NUMBER: P332690-935

CATALOG NUMBER: SA4XXDIP-C1195D810U935-4F0-1E-UDD-A4

**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	27.7	24.7	22.8	21.7	18.7	18.7	16.9	16.2	15.2	14.5
90°	11.5	12.1	10.8	9.4	9.4	5.4	5.4	4.7	4.0	2.0	0.7
92.5°	177.9	213.5	186.9	136.0	83.8	49.5	35.6	25.7	17.5	11.2	7.7
95°	564.2	548.7	414.1	253.1	142.8	84.1	55.9	39.7	31.0	24.2	22.2
97.5°	708.8	577.9	387.5	227.6	136.4	91.3	67.6	53.7	45.6	39.9	39.9
100°	713.6	541.3	351.5	214.1	138.0	98.3	76.7	64.0	55.9	51.1	51.1
102.5°	673.2	495.5	327.2	210.3	143.4	107.5	87.0	74.7	67.2	63.0	61.9
105°	599.9	441.6	306.3	212.1	156.2	123.9	104.4	92.2	84.1	80.8	78.8
107.5°	540.6	411.5	302.6	222.1	171.2	141.5	122.3	110.6	102.0	98.7	97.4
110°	511.0	401.2	303.6	229.5	182.4	152.8	134.7	122.5	114.4	111.1	109.8



TEST NUMBER: P332690-935

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	494.3	396.4	306.9	237.6	193.2	164.7	146.5	134.4	126.8	123.0	121.6
115°	478.6	393.8	313.1	250.5	210.1	183.1	165.0	152.1	145.4	140.7	138.7
117.5°	471.7	393.1	319.7	263.5	226.4	200.8	181.9	170.0	162.6	158.3	156.4
120°	467.9	393.1	324.5	272.7	237.6	212.1	193.2	181.8	174.4	169.6	168.3
122.5°	463.6	392.6	329.3	281.3	248.4	222.8	204.5	192.0	185.1	180.5	179.1
125°	456.4	391.8	336.7	294.2	263.2	239.0	220.2	207.3	199.9	195.9	193.2
127.5°	446.9	390.4	342.4	305.4	277.0	253.6	234.5	221.2	212.8	207.9	205.8
130°	441.0	389.8	346.7	312.4	286.1	263.2	243.7	230.9	220.8	215.4	212.8
132.5°	435.6	389.3	350.5	319.3	293.7	270.8	252.4	238.5	228.9	221.9	219.7
135°	427.5	388.5	356.1	328.6	304.3	282.1	264.6	250.5	239.0	232.3	229.5
137.5°	420.5	388.3	359.5	335.0	312.4	291.6	274.9	260.3	249.3	241.9	239.4
140°	416.7	387.8	362.2	339.3	317.8	297.6	281.4	267.3	255.8	248.4	246.4
142.5°	413.5	387.8	364.4	342.5	322.6	303.0	287.3	273.7	262.9	256.0	253.9
145°	407.9	386.4	365.6	346.0	327.9	310.4	295.6	282.8	273.4	266.6	264.6
147.5°	403.0	384.0	366.3	349.1	333.3	316.8	303.5	292.8	283.2	277.2	276.6
150°	399.2	382.4	366.3	350.8	336.0	321.2	308.3	298.3	290.2	284.8	284.1
152.5°	394.9	379.7	365.2	351.8	338.1	324.9	313.2	304.2	296.6	291.3	291.1
155°	388.5	375.7	363.5	352.8	341.3	329.8	319.8	312.4	305.7	301.6	300.9
157.5°	381.9	371.5	361.8	352.8	343.6	333.9	326.0	319.5	314.3	310.5	310.5
160°	377.0	368.2	360.2	352.8	344.7	336.7	329.2	323.8	319.1	316.4	316.4
162.5°	372.7	365.1	358.6	352.8	345.8	338.2	332.4	327.6	323.4	321.2	321.8
165°	365.6	360.2	355.5	351.5	346.0	340.0	336.0	332.6	329.2	327.9	327.9
167.5°	359.1	355.3	352.2	349.8	345.9	341.5	338.4	336.5	333.9	333.3	333.9
170°	354.8	352.1	350.1	348.7	345.3	342.0	340.0	338.6	336.7	336.0	336.7
172.5°	351.0	348.9	347.9	347.7	344.8	342.5	341.0	340.3	338.8	338.6	339.3
175°	346.7	345.3	345.3	346.0	344.1	342.7	342.7	342.0	341.3	341.3	342.0
177.5°	343.7	343.2	343.2	344.3	343.2	342.7	342.7	342.7	342.2	342.7	343.2
180°	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7





TEST NUMBER: P332690-935  
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**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°	15.2	16.2	18.0	19.8	22.0	23.3	22.8	23.1	21.1	20.4	18.3
90°	2.0	4.0	4.7	5.4	5.4	9.4	9.4	10.8	12.1	11.5	12.1
92.5°	11.2	17.5	25.7	35.6	49.5	83.8	136.0	186.9	213.5	177.9	132.2
95°	24.2	31.0	39.7	55.9	84.1	142.8	253.1	414.1	548.7	564.2	498.9
97.5°	39.9	45.6	53.7	67.6	91.3	136.4	227.6	387.5	577.9	708.8	737.0
100°	51.1	55.9	64.0	76.7	98.3	138.0	214.1	351.5	541.3	713.6	811.9
102.5°	63.0	67.2	74.7	87.0	107.5	143.4	210.3	327.2	495.5	673.2	808.1
105°	80.8	84.1	92.2	104.4	123.9	156.2	212.1	306.3	441.6	599.9	754.1
107.5°	98.7	102.0	110.6	122.3	141.5	171.2	222.1	302.6	411.5	540.6	677.2
110°	111.1	114.4	122.5	134.7	152.8	182.4	229.5	303.6	401.2	511.0	630.9





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	123.0	126.8	134.4	146.5	164.7	193.2	237.6	306.9	396.4	494.3	596.9
115°	140.7	145.4	152.1	165.0	183.1	210.1	250.5	313.1	393.8	478.6	562.8
117.5°	158.3	162.6	170.0	181.9	200.8	226.4	263.5	319.7	393.1	471.7	546.1
120°	169.6	174.4	181.8	193.2	212.1	237.6	272.7	324.5	393.1	467.9	538.6
122.5°	180.5	185.1	192.0	204.5	222.8	248.4	281.3	329.3	392.6	463.6	532.1
125°	195.9	199.9	207.3	220.2	239.0	263.2	294.2	336.7	391.8	456.4	521.1
127.5°	207.9	212.8	221.2	234.5	253.6	277.0	305.4	342.4	390.4	446.9	507.6
130°	215.4	220.8	230.9	243.7	263.2	286.1	312.4	346.7	389.8	441.0	496.9
132.5°	221.9	228.9	238.5	252.4	270.8	293.7	319.3	350.5	389.3	435.6	485.5
135°	232.3	239.0	250.5	264.6	282.1	304.3	328.6	356.1	388.5	427.5	469.9
137.5°	241.9	249.3	260.3	274.9	291.6	312.4	335.0	359.5	388.3	420.5	455.8
140°	248.4	255.8	267.3	281.4	297.6	317.8	339.3	362.2	387.8	416.7	447.7
142.5°	256.0	262.9	273.7	287.3	303.0	322.6	342.5	364.4	387.8	413.5	440.1
145°	266.6	273.4	282.8	295.6	310.4	327.9	346.0	365.6	386.4	407.9	429.6
147.5°	277.2	283.2	292.8	303.5	316.8	333.3	349.1	366.3	384.0	403.0	420.8
150°	284.8	290.2	298.3	308.3	321.2	336.0	350.8	366.3	382.4	399.2	415.3
152.5°	291.3	296.6	304.2	313.2	324.9	338.1	351.8	365.2	379.7	394.9	409.5
155°	301.6	305.7	312.4	319.8	329.8	341.3	352.8	363.5	375.7	388.5	400.5
157.5°	310.5	314.3	319.5	326.0	333.9	343.6	352.8	361.8	371.5	381.9	391.0
160°	316.4	319.1	323.8	329.2	336.7	344.7	352.8	360.2	368.2	377.0	385.1
162.5°	321.2	323.4	327.6	332.4	338.2	345.8	352.8	358.6	365.1	372.7	379.2
165°	327.9	329.2	332.6	336.0	340.0	346.0	351.5	355.5	360.2	365.6	370.9
167.5°	333.3	333.9	336.5	338.4	341.5	345.9	349.8	352.2	355.3	359.1	363.0
170°	336.0	336.7	338.6	340.0	342.0	345.3	348.7	350.1	352.1	354.8	358.2
172.5°	338.6	338.8	340.3	341.0	342.5	344.8	347.7	347.9	348.9	351.0	353.9
175°	341.3	341.3	342.0	342.7	342.7	344.1	346.0	345.3	345.3	346.7	348.1
177.5°	342.7	342.2	342.7	342.7	342.7	343.2	344.3	343.2	343.2	343.7	344.3
180°	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7



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**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	18.7	18.1	17.1	16.7	16.6	14.9
90°	12.8	13.4	13.4	14.1	14.8	14.1	14.1
92.5°	99.5	79.2	65.7	57.8	54.2	51.8	51.8
95°	394.5	304.3	239.0	206.0	185.1	173.1	164.3
97.5°	698.3	632.4	562.1	513.8	473.3	453.1	439.1
100°	825.4	792.4	742.6	684.0	642.9	622.8	617.3
102.5°	874.9	884.5	863.8	827.9	798.1	776.8	772.5
105°	870.5	937.1	964.8	966.1	960.7	951.3	947.3
107.5°	801.2	895.0	955.0	988.3	1003.7	1010.4	1012.1
110°	747.3	844.9	918.9	966.7	995.1	1007.2	1013.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	699.9	792.1	866.2	920.4	954.7	971.6	981.5
115°	645.7	724.4	789.0	842.2	882.6	904.1	909.6
117.5°	614.7	676.6	731.4	776.8	810.7	832.5	836.7
120°	601.2	655.0	702.8	741.2	770.9	788.3	795.7
122.5°	592.5	641.6	683.5	715.9	741.2	756.0	763.4
125°	579.0	625.4	662.5	689.4	708.9	721.7	725.7
127.5°	562.9	609.2	644.5	671.5	688.9	699.6	703.7
130°	550.0	595.8	631.5	659.1	676.0	686.7	690.8
132.5°	535.5	580.2	615.9	642.9	661.9	672.2	676.2
135°	513.7	554.7	588.4	615.4	634.2	645.0	649.0
137.5°	492.8	527.4	557.8	583.0	601.6	610.4	615.4
140°	479.3	509.6	538.0	561.5	576.3	585.7	591.1
142.5°	468.0	494.0	518.5	539.4	553.1	561.5	565.2
145°	452.5	472.6	491.5	508.3	519.7	526.5	529.9
147.5°	438.9	455.1	469.9	482.3	492.1	497.2	498.4
150°	430.8	444.4	456.4	467.3	476.0	480.0	480.7
152.5°	422.8	435.1	445.1	454.3	461.4	463.8	464.5
155°	411.4	421.5	429.6	436.3	441.6	443.7	443.7
157.5°	400.0	408.5	415.0	420.1	424.1	425.3	425.3
160°	392.5	399.9	405.3	409.3	413.4	414.1	414.1
162.5°	385.5	391.3	396.1	399.1	403.1	403.8	403.3
165°	375.0	379.7	383.1	385.7	388.5	387.8	387.1
167.5°	366.1	369.9	371.9	373.2	375.0	374.9	374.3
170°	360.2	362.9	364.9	366.3	366.9	366.3	366.3
172.5°	355.3	357.0	358.4	359.2	359.9	359.2	358.2
175°	348.7	350.1	350.1	350.1	351.5	350.1	348.7
177.5°	344.8	344.8	345.3	344.8	345.3	344.3	343.2
180°	342.7	342.7	342.7	342.7	342.7	342.7	342.7

(END OF REPORT)