

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: P332699-935

Luminaire Tested: **SA4XXDIP-C1195D1035U935-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332699-935  
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-C1195D1035U935-4F0-1E-UDD-A4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1035 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7762.9 lumens  
Efficiency: N/A  
Efficacy: 116.2 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: General Diffuse

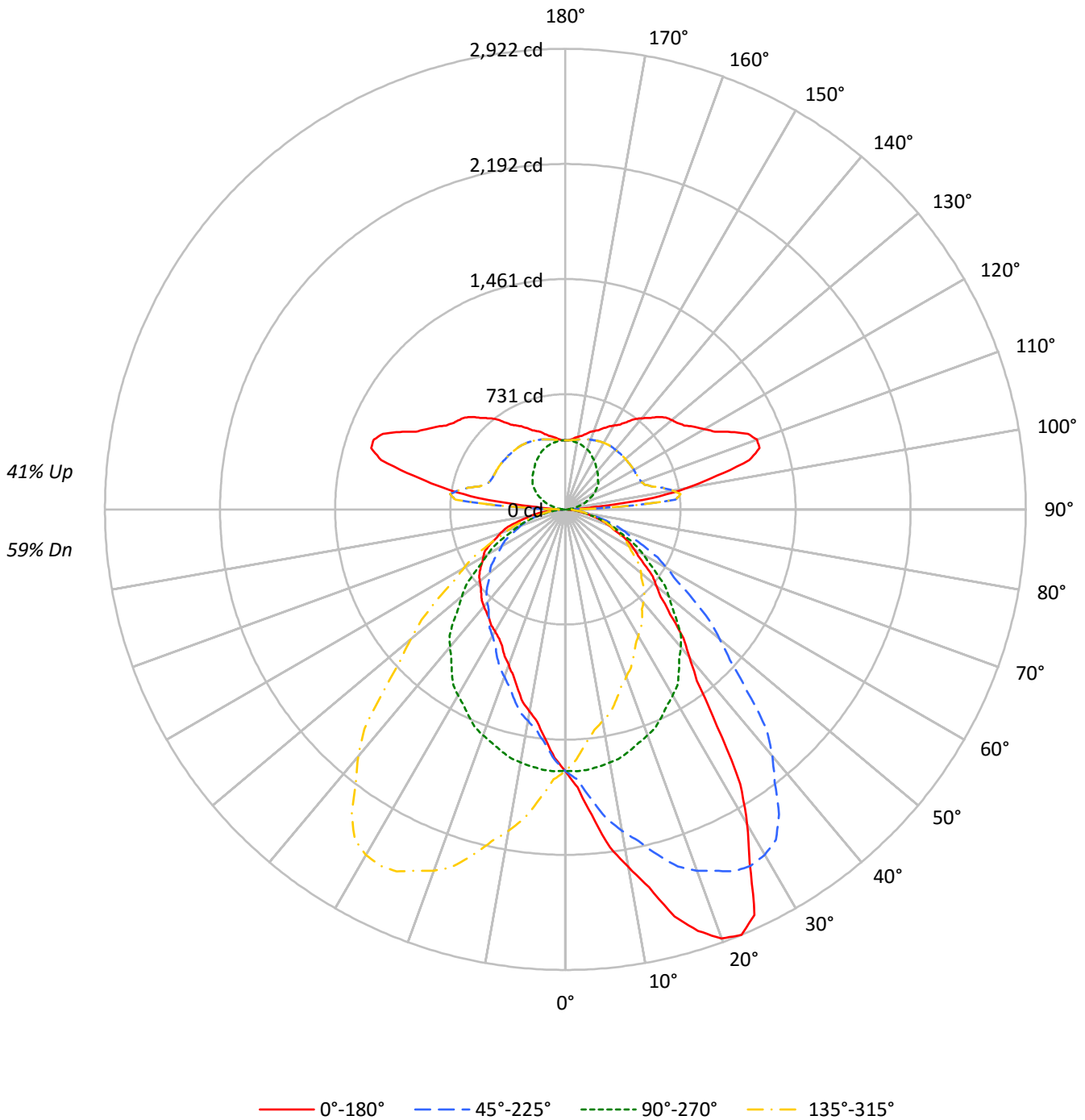
Input Watts (W): 66.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	88	93	90	86	83	78	75	73	67	65	64	57	56	55	50
2	91	84	78	73	85	79	73	69	69	65	61	59	56	54	51	49	47	42
3	84	74	67	61	78	69	63	58	61	56	52	53	49	46	45	42	40	36
4	77	66	58	52	71	62	55	49	54	49	44	47	43	39	41	37	35	31
5	70	59	51	45	66	55	48	43	49	43	38	42	38	34	37	33	30	27
6	65	53	45	39	60	50	42	37	44	38	34	38	34	30	33	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	31	27	24	22
8	56	44	36	30	52	41	34	29	36	31	27	32	27	24	28	24	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	17
10	49	37	29	24	46	35	28	24	31	25	22	27	23	20	24	20	18	16

**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	2.1
10°-20°	498.3	6.4
20°-30°	790.2	10.2
30°-40°	879.4	11.3
40°-50°	800.5	10.3
50°-60°	654.1	8.4
60°-70°	467.0	6.0
70°-80°	257.1	3.3
80°-90°	72.6	0.9
90°-100°	316.0	4.1
100°-110°	657.7	8.5
110°-120°	589.1	7.6
120°-130°	495.5	6.4
130°-140°	413.2	5.3
140°-150°	315.7	4.1
150°-160°	221.9	2.9
160°-170°	130.5	1.7
170°-180°	42.5	0.5
0°-30°	1450.2	18.7
0°-40°	2329.6	30.0
0°-60°	3784.2	48.7
0°-90°	4580.9	59.0
90°-120°	1562.8	20.1
90°-150°	2787.1	35.9
90°-180°	3182.0	41.0
0°-180°	7762.9	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°	18	1	18	1	18	16
95°	210	28	210	28	210	325
105°	1209	101	1209	101	1209	1196
115°	1161	177	1161	177	1161	1153
125°	927	247	927	247	927	842
135°	829	293	829	293	829	640
145°	676	338	676	338	676	429
155°	566	384	566	384	566	264
165°	494	419	494	419	494	142
175°	445	437	445	437	445	43
180°	438	438	438	438	438	



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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°	15.7	17.4	17.6	17.9	18.9	19.4	19.8	19.0	21.1	21.8	23.7
90°	18.1	18.1	18.9	18.1	17.2	17.2	16.4	15.5	14.6	15.5	13.8
92.5°	66.2	66.2	69.1	73.8	83.9	101.1	127.1	168.8	227.1	272.7	238.6
95°	209.7	220.9	236.3	263.0	305.1	388.5	503.7	636.9	720.3	700.5	528.7
97.5°	560.6	578.5	604.2	656.0	717.7	807.4	891.5	941.1	904.9	737.8	494.7
100°	788.2	795.0	820.9	873.3	948.0	1011.7	1053.8	1036.6	911.1	691.0	448.7
102.5°	986.3	991.8	1018.9	1056.9	1102.8	1129.3	1117.1	1031.8	859.5	632.7	417.8
105°	1209.4	1214.5	1226.6	1233.5	1231.7	1196.4	1111.4	962.7	765.9	563.9	391.1
107.5°	1292.3	1290.0	1281.4	1261.8	1219.3	1142.7	1022.9	864.5	690.2	525.4	386.2
110°	1293.7	1285.9	1270.4	1234.3	1173.3	1078.7	954.1	805.4	652.4	512.3	387.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1253.0	1240.5	1218.8	1175.2	1105.9	1011.3	893.5	762.1	631.1	506.1	391.8
115°	1161.2	1154.3	1126.9	1075.3	1007.4	924.9	824.3	718.6	611.1	502.8	399.7
117.5°	1068.2	1062.9	1035.1	991.8	933.8	863.8	784.8	697.2	602.2	502.0	408.1
120°	1016.0	1006.5	984.2	946.3	897.3	836.4	767.6	687.6	597.4	502.0	414.3
122.5°	974.7	965.3	946.3	914.0	872.6	819.2	756.6	679.4	591.9	501.3	420.5
125°	926.6	921.4	905.1	880.2	845.8	798.5	739.2	665.3	582.8	500.2	429.8
127.5°	898.4	893.2	879.5	857.3	822.8	777.9	718.8	648.1	570.6	498.3	437.1
130°	881.9	876.8	863.0	841.5	806.2	760.7	702.2	634.4	563.0	497.7	442.6
132.5°	863.3	858.2	845.1	820.9	786.4	740.7	683.7	619.9	556.1	497.0	447.5
135°	828.6	823.5	809.7	785.7	751.2	708.3	655.8	599.9	545.8	495.9	454.7
137.5°	785.7	779.5	768.1	744.3	712.2	673.4	629.2	581.9	536.8	495.8	459.0
140°	754.7	747.8	735.8	716.9	686.7	650.7	612.0	571.6	532.1	495.1	462.4
142.5°	721.7	716.9	706.2	688.6	662.0	630.8	597.5	562.0	528.0	495.1	465.2
145°	676.5	672.2	663.6	648.9	627.5	603.4	577.6	548.4	520.9	493.4	466.7
147.5°	636.4	634.9	628.4	615.8	599.9	581.1	560.4	537.2	514.5	490.3	467.6
150°	613.7	612.9	607.7	596.5	582.8	567.3	550.1	530.4	509.7	488.2	467.6
152.5°	593.1	592.2	589.1	580.1	568.3	555.6	539.8	522.8	504.2	484.7	466.2
155°	566.5	566.5	563.9	557.0	548.4	538.0	525.2	511.4	495.9	479.7	464.2
157.5°	543.0	543.0	541.5	536.3	529.9	521.6	510.7	499.2	487.5	474.3	461.9
160°	528.7	528.7	527.8	522.6	517.5	510.6	501.1	491.6	481.4	470.2	459.9
162.5°	514.9	515.6	514.7	509.5	505.8	499.6	492.1	484.1	475.9	466.1	457.8
165°	494.2	495.1	495.9	492.5	489.0	484.7	478.8	473.6	466.7	459.9	453.8
167.5°	477.9	478.6	478.8	476.6	474.8	472.3	467.4	463.5	458.5	453.7	449.7
170°	467.6	467.6	468.5	467.6	465.9	463.3	459.9	457.3	453.0	449.5	446.9
172.5°	457.3	458.7	459.5	458.7	457.6	455.7	453.7	451.8	448.2	445.4	444.2
175°	445.2	446.9	448.7	446.9	446.9	446.9	445.2	444.4	442.6	440.9	440.9
177.5°	438.2	439.5	440.9	440.2	440.9	440.2	440.2	439.5	438.9	438.2	438.2
180°	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5



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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°	23.3	23.8	22.3	20.1	18.3	16.4	15.3	14.5	15.3	16.4	17.1
90°	12.1	12.1	6.9	6.9	6.0	5.2	2.6	0.9	2.6	5.2	6.0
92.5°	173.7	106.9	63.3	45.4	32.8	22.4	14.3	9.8	14.3	22.4	32.8
95°	323.2	182.2	107.5	71.4	50.7	39.5	30.9	28.3	30.9	39.5	50.7
97.5°	290.5	174.2	116.6	86.3	68.6	58.3	50.9	50.9	50.9	58.3	68.6
100°	273.4	176.2	125.5	98.0	81.6	71.4	65.3	65.3	65.3	71.4	81.6
102.5°	268.5	183.0	137.2	111.1	95.4	85.8	80.4	79.0	80.4	85.8	95.4
105°	270.8	199.4	158.2	133.2	117.8	107.5	103.1	100.6	103.1	107.5	117.8
107.5°	283.4	218.5	180.6	156.1	141.3	130.3	126.1	124.3	126.1	130.3	141.3
110°	293.1	232.9	195.1	171.9	156.4	146.1	141.8	140.1	141.8	146.1	156.4





TEST NUMBER: P332699-935

CATALOG NUMBER: SA4XXDIP-C1195D1035U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	303.4	246.7	210.3	187.0	171.6	162.0	157.0	155.2	157.0	162.0	171.6
115°	319.8	268.2	233.8	210.6	194.2	185.6	179.6	177.1	179.6	185.6	194.2
117.5°	336.4	289.0	256.3	232.2	217.0	207.5	202.2	199.8	202.2	207.5	217.0
120°	348.1	303.4	270.8	246.7	232.0	222.7	216.6	214.9	216.6	222.7	232.0
122.5°	359.1	317.2	284.5	261.1	245.1	236.3	230.3	228.7	230.3	236.3	245.1
125°	375.7	336.0	305.1	281.0	264.8	255.3	250.1	246.7	250.1	255.3	264.8
127.5°	389.9	353.6	323.7	299.5	282.4	271.6	265.4	262.7	265.4	271.6	282.4
130°	398.8	365.3	336.0	311.2	294.8	281.9	275.1	271.6	275.1	281.9	294.8
132.5°	407.8	375.0	345.7	322.2	304.4	292.2	283.3	280.5	283.3	292.2	304.4
135°	419.5	388.5	360.2	337.8	319.8	305.1	296.5	293.1	296.5	305.1	319.8
137.5°	427.7	398.8	372.4	351.0	332.3	318.4	308.9	305.7	308.9	318.4	332.3
140°	433.2	405.7	380.0	359.3	341.2	326.7	317.2	314.6	317.2	326.7	341.2
142.5°	437.3	411.9	386.8	366.9	349.5	335.5	326.8	324.3	326.8	335.5	349.5
145°	441.8	418.6	396.2	377.4	361.0	349.0	340.4	337.8	340.4	349.0	361.0
147.5°	445.7	425.5	404.5	387.4	373.9	361.5	354.0	353.1	354.0	361.5	373.9
150°	447.8	429.0	410.0	393.6	380.8	370.5	363.6	362.7	363.6	370.5	380.8
152.5°	449.2	431.7	414.8	399.8	388.3	378.8	371.9	371.7	371.9	378.8	388.3
155°	450.4	435.8	421.2	408.3	398.8	390.2	385.0	384.2	385.0	390.2	398.8
157.5°	450.4	438.7	426.4	416.2	407.9	401.2	396.4	396.4	396.4	401.2	407.9
160°	450.4	440.1	429.8	420.3	413.5	407.4	404.0	404.0	404.0	407.4	413.5
162.5°	450.4	441.4	431.9	424.5	418.3	412.9	410.2	410.9	410.2	412.9	418.3
165°	448.7	441.8	434.0	429.0	424.6	420.3	418.6	418.6	418.6	420.3	424.6
167.5°	446.6	441.6	435.9	432.0	429.6	426.4	425.5	426.4	425.5	426.4	429.6
170°	445.2	440.9	436.6	434.0	432.4	429.8	429.0	429.8	429.0	429.8	432.4
172.5°	443.8	440.2	437.3	435.4	434.4	432.5	432.4	433.2	432.4	432.5	434.4
175°	441.8	439.2	437.5	437.5	436.6	435.8	435.8	436.6	435.8	435.8	436.6
177.5°	439.5	438.2	437.5	437.5	437.5	436.8	437.5	438.2	437.5	436.8	437.5
180°	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5



TEST NUMBER: P332699-935

CATALOG NUMBER: SA4XXDIP-C1195D1035U935-4F0-1E-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°	18.9	18.9	22.2	23.3	25.3	28.4	29.4	35.6	37.9	40.8	45.8
90°	6.9	6.9	12.1	12.1	13.8	15.5	14.6	15.5	16.4	17.2	17.2
92.5°	45.4	63.3	106.9	173.7	238.6	272.7	227.1	168.8	127.1	101.1	83.9
95°	71.4	107.5	182.2	323.2	528.7	700.5	720.3	636.9	503.7	388.5	305.1
97.5°	86.3	116.6	174.2	290.5	494.7	737.8	904.9	941.1	891.5	807.4	717.7
100°	98.0	125.5	176.2	273.4	448.7	691.0	911.1	1036.6	1053.8	1011.7	948.0
102.5°	111.1	137.2	183.0	268.5	417.8	632.7	859.5	1031.8	1117.1	1129.3	1102.8
105°	133.2	158.2	199.4	270.8	391.1	563.9	765.9	962.7	1111.4	1196.4	1231.7
107.5°	156.1	180.6	218.5	283.4	386.2	525.4	690.2	864.5	1022.9	1142.7	1219.3
110°	171.9	195.1	232.9	293.1	387.6	512.3	652.4	805.4	954.1	1078.7	1173.3



TEST NUMBER: P332699-935

CATALOG NUMBER: SA4XXDIP-C1195D1035U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	187.0	210.3	246.7	303.4	391.8	506.1	631.1	762.1	893.5	1011.3	1105.9
115°	210.6	233.8	268.2	319.8	399.7	502.8	611.1	718.6	824.3	924.9	1007.4
117.5°	232.2	256.3	289.0	336.4	408.1	502.0	602.2	697.2	784.8	863.8	933.8
120°	246.7	270.8	303.4	348.1	414.3	502.0	597.4	687.6	767.6	836.4	897.3
122.5°	261.1	284.5	317.2	359.1	420.5	501.3	591.9	679.4	756.6	819.2	872.6
125°	281.0	305.1	336.0	375.7	429.8	500.2	582.8	665.3	739.2	798.5	845.8
127.5°	299.5	323.7	353.6	389.9	437.1	498.3	570.6	648.1	718.8	777.9	822.8
130°	311.2	336.0	365.3	398.8	442.6	497.7	563.0	634.4	702.2	760.7	806.2
132.5°	322.2	345.7	375.0	407.8	447.5	497.0	556.1	619.9	683.7	740.7	786.4
135°	337.8	360.2	388.5	419.5	454.7	495.9	545.8	599.9	655.8	708.3	751.2
137.5°	351.0	372.4	398.8	427.7	459.0	495.8	536.8	581.9	629.2	673.4	712.2
140°	359.3	380.0	405.7	433.2	462.4	495.1	532.1	571.6	612.0	650.7	686.7
142.5°	366.9	386.8	411.9	437.3	465.2	495.1	528.0	562.0	597.5	630.8	662.0
145°	377.4	396.2	418.6	441.8	466.7	493.4	520.9	548.4	577.6	603.4	627.5
147.5°	387.4	404.5	425.5	445.7	467.6	490.3	514.5	537.2	560.4	581.1	599.9
150°	393.6	410.0	429.0	447.8	467.6	488.2	509.7	530.4	550.1	567.3	582.8
152.5°	399.8	414.8	431.7	449.2	466.2	484.7	504.2	522.8	539.8	555.6	568.3
155°	408.3	421.2	435.8	450.4	464.2	479.7	495.9	511.4	525.2	538.0	548.4
157.5°	416.2	426.4	438.7	450.4	461.9	474.3	487.5	499.2	510.7	521.6	529.9
160°	420.3	429.8	440.1	450.4	459.9	470.2	481.4	491.6	501.1	510.6	517.5
162.5°	424.5	431.9	441.4	450.4	457.8	466.1	475.9	484.1	492.1	499.6	505.8
165°	429.0	434.0	441.8	448.7	453.8	459.9	466.7	473.6	478.8	484.7	489.0
167.5°	432.0	435.9	441.6	446.6	449.7	453.7	458.5	463.5	467.4	472.3	474.8
170°	434.0	436.6	440.9	445.2	446.9	449.5	453.0	457.3	459.9	463.3	465.9
172.5°	435.4	437.3	440.2	443.8	444.2	445.4	448.2	451.8	453.7	455.7	457.6
175°	437.5	437.5	439.2	441.8	440.9	440.9	442.6	444.4	445.2	446.9	446.9
177.5°	437.5	437.5	438.2	439.5	438.2	438.2	438.9	439.5	440.2	440.2	440.9
180°	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5



TEST NUMBER: P332699-935

CATALOG NUMBER: SA4XXDIP-C1195D1035U935-4F0-1E-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°	47.6	48.3	49.8	50.9	49.8	48.3	47.6	45.8	40.8	37.9	35.6
90°	18.1	18.9	18.1	18.1	18.1	18.9	18.1	17.2	17.2	16.4	15.5
92.5°	73.8	69.1	66.2	66.2	66.2	69.1	73.8	83.9	101.1	127.1	168.8
95°	263.0	236.3	220.9	209.7	220.9	236.3	263.0	305.1	388.5	503.7	636.9
97.5°	656.0	604.2	578.5	560.6	578.5	604.2	656.0	717.7	807.4	891.5	941.1
100°	873.3	820.9	795.0	788.2	795.0	820.9	873.3	948.0	1011.7	1053.8	1036.6
102.5°	1056.9	1018.9	991.8	986.3	991.8	1018.9	1056.9	1102.8	1129.3	1117.1	1031.8
105°	1233.5	1226.6	1214.5	1209.4	1214.5	1226.6	1233.5	1231.7	1196.4	1111.4	962.7
107.5°	1261.8	1281.4	1290.0	1292.3	1290.0	1281.4	1261.8	1219.3	1142.7	1022.9	864.5
110°	1234.3	1270.4	1285.9	1293.7	1285.9	1270.4	1234.3	1173.3	1078.7	954.1	805.4



TEST NUMBER: P332699-935

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1175.2	1218.8	1240.5	1253.0	1240.5	1218.8	1175.2	1105.9	1011.3	893.5	762.1
115°	1075.3	1126.9	1154.3	1161.2	1154.3	1126.9	1075.3	1007.4	924.9	824.3	718.6
117.5°	991.8	1035.1	1062.9	1068.2	1062.9	1035.1	991.8	933.8	863.8	784.8	697.2
120°	946.3	984.2	1006.5	1016.0	1006.5	984.2	946.3	897.3	836.4	767.6	687.6
122.5°	914.0	946.3	965.3	974.7	965.3	946.3	914.0	872.6	819.2	756.6	679.4
125°	880.2	905.1	921.4	926.6	921.4	905.1	880.2	845.8	798.5	739.2	665.3
127.5°	857.3	879.5	893.2	898.4	893.2	879.5	857.3	822.8	777.9	718.8	648.1
130°	841.5	863.0	876.8	881.9	876.8	863.0	841.5	806.2	760.7	702.2	634.4
132.5°	820.9	845.1	858.2	863.3	858.2	845.1	820.9	786.4	740.7	683.7	619.9
135°	785.7	809.7	823.5	828.6	823.5	809.7	785.7	751.2	708.3	655.8	599.9
137.5°	744.3	768.1	779.5	785.7	779.5	768.1	744.3	712.2	673.4	629.2	581.9
140°	716.9	735.8	747.8	754.7	747.8	735.8	716.9	686.7	650.7	612.0	571.6
142.5°	688.6	706.2	716.9	721.7	716.9	706.2	688.6	662.0	630.8	597.5	562.0
145°	648.9	663.6	672.2	676.5	672.2	663.6	648.9	627.5	603.4	577.6	548.4
147.5°	615.8	628.4	634.9	636.4	634.9	628.4	615.8	599.9	581.1	560.4	537.2
150°	596.5	607.7	612.9	613.7	612.9	607.7	596.5	582.8	567.3	550.1	530.4
152.5°	580.1	589.1	592.2	593.1	592.2	589.1	580.1	568.3	555.6	539.8	522.8
155°	557.0	563.9	566.5	566.5	566.5	563.9	557.0	548.4	538.0	525.2	511.4
157.5°	536.3	541.5	543.0	543.0	543.0	541.5	536.3	529.9	521.6	510.7	499.2
160°	522.6	527.8	528.7	528.7	528.7	527.8	522.6	517.5	510.6	501.1	491.6
162.5°	509.5	514.7	515.6	514.9	515.6	514.7	509.5	505.8	499.6	492.1	484.1
165°	492.5	495.9	495.1	494.2	495.1	495.9	492.5	489.0	484.7	478.8	473.6
167.5°	476.6	478.8	478.6	477.9	478.6	478.8	476.6	474.8	472.3	467.4	463.5
170°	467.6	468.5	467.6	467.6	467.6	468.5	467.6	465.9	463.3	459.9	457.3
172.5°	458.7	459.5	458.7	457.3	458.7	459.5	458.7	457.6	455.7	453.7	451.8
175°	446.9	448.7	446.9	445.2	446.9	448.7	446.9	446.9	446.9	445.2	444.4
177.5°	440.2	440.9	439.5	438.2	439.5	440.9	440.2	440.9	440.2	440.2	439.5
180°	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5



TEST NUMBER: P332699-935

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**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°	29.4	28.4	25.3	23.3	22.2	18.9	18.9	17.1	16.4	15.3	14.5
90°	14.6	15.5	13.8	12.1	12.1	6.9	6.9	6.0	5.2	2.6	0.9
92.5°	227.1	272.7	238.6	173.7	106.9	63.3	45.4	32.8	22.4	14.3	9.8
95°	720.3	700.5	528.7	323.2	182.2	107.5	71.4	50.7	39.5	30.9	28.3
97.5°	904.9	737.8	494.7	290.5	174.2	116.6	86.3	68.6	58.3	50.9	50.9
100°	911.1	691.0	448.7	273.4	176.2	125.5	98.0	81.6	71.4	65.3	65.3
102.5°	859.5	632.7	417.8	268.5	183.0	137.2	111.1	95.4	85.8	80.4	79.0
105°	765.9	563.9	391.1	270.8	199.4	158.2	133.2	117.8	107.5	103.1	100.6
107.5°	690.2	525.4	386.2	283.4	218.5	180.6	156.1	141.3	130.3	126.1	124.3
110°	652.4	512.3	387.6	293.1	232.9	195.1	171.9	156.4	146.1	141.8	140.1



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	631.1	506.1	391.8	303.4	246.7	210.3	187.0	171.6	162.0	157.0	155.2
115°	611.1	502.8	399.7	319.8	268.2	233.8	210.6	194.2	185.6	179.6	177.1
117.5°	602.2	502.0	408.1	336.4	289.0	256.3	232.2	217.0	207.5	202.2	199.8
120°	597.4	502.0	414.3	348.1	303.4	270.8	246.7	232.0	222.7	216.6	214.9
122.5°	591.9	501.3	420.5	359.1	317.2	284.5	261.1	245.1	236.3	230.3	228.7
125°	582.8	500.2	429.8	375.7	336.0	305.1	281.0	264.8	255.3	250.1	246.7
127.5°	570.6	498.3	437.1	389.9	353.6	323.7	299.5	282.4	271.6	265.4	262.7
130°	563.0	497.7	442.6	398.8	365.3	336.0	311.2	294.8	281.9	275.1	271.6
132.5°	556.1	497.0	447.5	407.8	375.0	345.7	322.2	304.4	292.2	283.3	280.5
135°	545.8	495.9	454.7	419.5	388.5	360.2	337.8	319.8	305.1	296.5	293.1
137.5°	536.8	495.8	459.0	427.7	398.8	372.4	351.0	332.3	318.4	308.9	305.7
140°	532.1	495.1	462.4	433.2	405.7	380.0	359.3	341.2	326.7	317.2	314.6
142.5°	528.0	495.1	465.2	437.3	411.9	386.8	366.9	349.5	335.5	326.8	324.3
145°	520.9	493.4	466.7	441.8	418.6	396.2	377.4	361.0	349.0	340.4	337.8
147.5°	514.5	490.3	467.6	445.7	425.5	404.5	387.4	373.9	361.5	354.0	353.1
150°	509.7	488.2	467.6	447.8	429.0	410.0	393.6	380.8	370.5	363.6	362.7
152.5°	504.2	484.7	466.2	449.2	431.7	414.8	399.8	388.3	378.8	371.9	371.7
155°	495.9	479.7	464.2	450.4	435.8	421.2	408.3	398.8	390.2	385.0	384.2
157.5°	487.5	474.3	461.9	450.4	438.7	426.4	416.2	407.9	401.2	396.4	396.4
160°	481.4	470.2	459.9	450.4	440.1	429.8	420.3	413.5	407.4	404.0	404.0
162.5°	475.9	466.1	457.8	450.4	441.4	431.9	424.5	418.3	412.9	410.2	410.9
165°	466.7	459.9	453.8	448.7	441.8	434.0	429.0	424.6	420.3	418.6	418.6
167.5°	458.5	453.7	449.7	446.6	441.6	435.9	432.0	429.6	426.4	425.5	426.4
170°	453.0	449.5	446.9	445.2	440.9	436.6	434.0	432.4	429.8	429.0	429.8
172.5°	448.2	445.4	444.2	443.8	440.2	437.3	435.4	434.4	432.5	432.4	433.2
175°	442.6	440.9	440.9	441.8	439.2	437.5	437.5	436.6	435.8	435.8	436.6
177.5°	438.9	438.2	438.2	439.5	438.2	437.5	437.5	437.5	436.8	437.5	438.2
180°	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5



TEST NUMBER: P332699-935

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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°	15.3	16.4	18.3	20.1	22.3	23.8	23.3	23.7	21.8	21.1	19.0
90°	2.6	5.2	6.0	6.9	6.9	12.1	12.1	13.8	15.5	14.6	15.5
92.5°	14.3	22.4	32.8	45.4	63.3	106.9	173.7	238.6	272.7	227.1	168.8
95°	30.9	39.5	50.7	71.4	107.5	182.2	323.2	528.7	700.5	720.3	636.9
97.5°	50.9	58.3	68.6	86.3	116.6	174.2	290.5	494.7	737.8	904.9	941.1
100°	65.3	71.4	81.6	98.0	125.5	176.2	273.4	448.7	691.0	911.1	1036.6
102.5°	80.4	85.8	95.4	111.1	137.2	183.0	268.5	417.8	632.7	859.5	1031.8
105°	103.1	107.5	117.8	133.2	158.2	199.4	270.8	391.1	563.9	765.9	962.7
107.5°	126.1	130.3	141.3	156.1	180.6	218.5	283.4	386.2	525.4	690.2	864.5
110°	141.8	146.1	156.4	171.9	195.1	232.9	293.1	387.6	512.3	652.4	805.4





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	157.0	162.0	171.6	187.0	210.3	246.7	303.4	391.8	506.1	631.1	762.1
115°	179.6	185.6	194.2	210.6	233.8	268.2	319.8	399.7	502.8	611.1	718.6
117.5°	202.2	207.5	217.0	232.2	256.3	289.0	336.4	408.1	502.0	602.2	697.2
120°	216.6	222.7	232.0	246.7	270.8	303.4	348.1	414.3	502.0	597.4	687.6
122.5°	230.3	236.3	245.1	261.1	284.5	317.2	359.1	420.5	501.3	591.9	679.4
125°	250.1	255.3	264.8	281.0	305.1	336.0	375.7	429.8	500.2	582.8	665.3
127.5°	265.4	271.6	282.4	299.5	323.7	353.6	389.9	437.1	498.3	570.6	648.1
130°	275.1	281.9	294.8	311.2	336.0	365.3	398.8	442.6	497.7	563.0	634.4
132.5°	283.3	292.2	304.4	322.2	345.7	375.0	407.8	447.5	497.0	556.1	619.9
135°	296.5	305.1	319.8	337.8	360.2	388.5	419.5	454.7	495.9	545.8	599.9
137.5°	308.9	318.4	332.3	351.0	372.4	398.8	427.7	459.0	495.8	536.8	581.9
140°	317.2	326.7	341.2	359.3	380.0	405.7	433.2	462.4	495.1	532.1	571.6
142.5°	326.8	335.5	349.5	366.9	386.8	411.9	437.3	465.2	495.1	528.0	562.0
145°	340.4	349.0	361.0	377.4	396.2	418.6	441.8	466.7	493.4	520.9	548.4
147.5°	354.0	361.5	373.9	387.4	404.5	425.5	445.7	467.6	490.3	514.5	537.2
150°	363.6	370.5	380.8	393.6	410.0	429.0	447.8	467.6	488.2	509.7	530.4
152.5°	371.9	378.8	388.3	399.8	414.8	431.7	449.2	466.2	484.7	504.2	522.8
155°	385.0	390.2	398.8	408.3	421.2	435.8	450.4	464.2	479.7	495.9	511.4
157.5°	396.4	401.2	407.9	416.2	426.4	438.7	450.4	461.9	474.3	487.5	499.2
160°	404.0	407.4	413.5	420.3	429.8	440.1	450.4	459.9	470.2	481.4	491.6
162.5°	410.2	412.9	418.3	424.5	431.9	441.4	450.4	457.8	466.1	475.9	484.1
165°	418.6	420.3	424.6	429.0	434.0	441.8	448.7	453.8	459.9	466.7	473.6
167.5°	425.5	426.4	429.6	432.0	435.9	441.6	446.6	449.7	453.7	458.5	463.5
170°	429.0	429.8	432.4	434.0	436.6	440.9	445.2	446.9	449.5	453.0	457.3
172.5°	432.4	432.5	434.4	435.4	437.3	440.2	443.8	444.2	445.4	448.2	451.8
175°	435.8	435.8	436.6	437.5	437.5	439.2	441.8	440.9	440.9	442.6	444.4
177.5°	437.5	436.8	437.5	437.5	437.5	438.2	439.5	438.2	438.2	438.9	439.5
180°	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5



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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°	19.8	19.4	18.9	17.9	17.6	17.4	15.7
90°	16.4	17.2	17.2	18.1	18.9	18.1	18.1
92.5°	127.1	101.1	83.9	73.8	69.1	66.2	66.2
95°	503.7	388.5	305.1	263.0	236.3	220.9	209.7
97.5°	891.5	807.4	717.7	656.0	604.2	578.5	560.6
100°	1053.8	1011.7	948.0	873.3	820.9	795.0	788.2
102.5°	1117.1	1129.3	1102.8	1056.9	1018.9	991.8	986.3
105°	1111.4	1196.4	1231.7	1233.5	1226.6	1214.5	1209.4
107.5°	1022.9	1142.7	1219.3	1261.8	1281.4	1290.0	1292.3
110°	954.1	1078.7	1173.3	1234.3	1270.4	1285.9	1293.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	893.5	1011.3	1105.9	1175.2	1218.8	1240.5	1253.0
115°	824.3	924.9	1007.4	1075.3	1126.9	1154.3	1161.2
117.5°	784.8	863.8	933.8	991.8	1035.1	1062.9	1068.2
120°	767.6	836.4	897.3	946.3	984.2	1006.5	1016.0
122.5°	756.6	819.2	872.6	914.0	946.3	965.3	974.7
125°	739.2	798.5	845.8	880.2	905.1	921.4	926.6
127.5°	718.8	777.9	822.8	857.3	879.5	893.2	898.4
130°	702.2	760.7	806.2	841.5	863.0	876.8	881.9
132.5°	683.7	740.7	786.4	820.9	845.1	858.2	863.3
135°	655.8	708.3	751.2	785.7	809.7	823.5	828.6
137.5°	629.2	673.4	712.2	744.3	768.1	779.5	785.7
140°	612.0	650.7	686.7	716.9	735.8	747.8	754.7
142.5°	597.5	630.8	662.0	688.6	706.2	716.9	721.7
145°	577.6	603.4	627.5	648.9	663.6	672.2	676.5
147.5°	560.4	581.1	599.9	615.8	628.4	634.9	636.4
150°	550.1	567.3	582.8	596.5	607.7	612.9	613.7
152.5°	539.8	555.6	568.3	580.1	589.1	592.2	593.1
155°	525.2	538.0	548.4	557.0	563.9	566.5	566.5
157.5°	510.7	521.6	529.9	536.3	541.5	543.0	543.0
160°	501.1	510.6	517.5	522.6	527.8	528.7	528.7
162.5°	492.1	499.6	505.8	509.5	514.7	515.6	514.9
165°	478.8	484.7	489.0	492.5	495.9	495.1	494.2
167.5°	467.4	472.3	474.8	476.6	478.8	478.6	477.9
170°	459.9	463.3	465.9	467.6	468.5	467.6	467.6
172.5°	453.7	455.7	457.6	458.7	459.5	458.7	457.3
175°	445.2	446.9	446.9	446.9	448.7	446.9	445.2
177.5°	440.2	440.2	440.9	440.2	440.9	439.5	438.2
180°	437.5	437.5	437.5	437.5	437.5	437.5	437.5

(END OF REPORT)