

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: P332217

Luminaire Tested: **S123DIW-S1165D755U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332217
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIW-S1165D755U835-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 755 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7516.7 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Direct

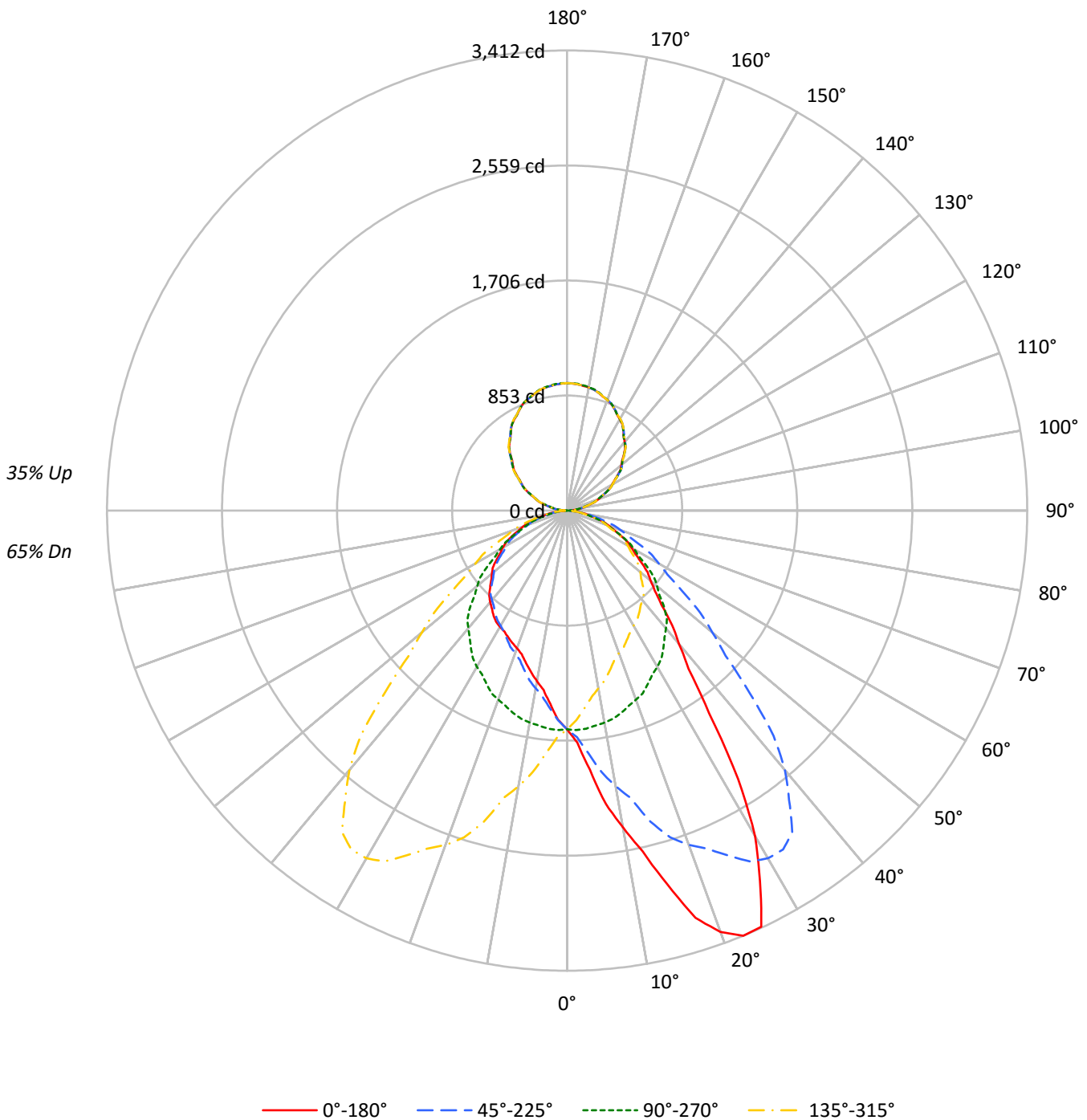
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70	65
1	102	97	93	90	95	92	88	85	81	79	76	71	70	68	63	61	60	56
2	93	85	79	74	87	81	75	71	71	67	64	63	60	57	55	53	51	47
3	85	75	68	62	80	71	65	59	63	58	54	56	52	49	49	46	44	40
4	78	67	59	53	73	63	56	51	57	51	46	50	46	42	44	41	38	35
5	72	60	52	46	67	57	49	44	51	45	40	45	40	37	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	36	31	37	32	29	33	29	26	24
8	57	44	36	31	53	42	35	30	38	32	28	34	29	26	31	27	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°	17460	17460	17460	17460
5°	20822	17535	15540	17535
10°	26063	17446	14036	17446
15°	31967	17306	13067	17306
20°	38080	17087	12441	17087
25°	40435	16820	12302	16820
30°	34657	16625	12367	16625
35°	24103	16348	12496	16348
40°	18156	16024	12456	16024
45°	15075	15541	12298	15541
50°	13504	14555	12188	14555
55°	12624	13495	12035	13495
60°	11842	12385	11911	12385
65°	11130	11291	11530	11291
70°	10439	10043	10980	10043
75°	9349	8792	10069	8792
80°	8182	7209	8672	7209
85°	6410	5236	5829	5236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	2.1
10°-20°	512.4	6.8
20°-30°	859.9	11.4
30°-40°	973.7	13.0
40°-50°	873.2	11.6
50°-60°	704.7	9.4
60°-70°	491.0	6.5
70°-80°	258.1	3.4
80°-90°	65.9	0.9
90°-100°	61.6	0.8
100°-110°	184.2	2.5
110°-120°	313.4	4.2
120°-130°	412.2	5.5
130°-140°	463.3	6.2
140°-150°	455.4	6.1
150°-160°	383.4	5.1
160°-170°	255.2	3.4
170°-180°	89.4	1.2
0°-30°	1532.1	20.4
0°-40°	2505.8	33.3
0°-60°	4083.7	54.3
0°-90°	4898.7	65.2
90°-120°	559.2	7.4
90°-150°	1890.0	25.1
90°-180°	2618.0	34.8
0°-180°	7516.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1622	1622	1622	1622	1622	
5°	1927	1623	1438	1623	1927	200
15°	2869	1553	1173	1553	2869	828
25°	3405	1416	1036	1416	3405	1493
35°	1834	1244	951	1244	1834	1192
45°	990	1021	808	1021	990	784
55°	673	719	641	719	673	604
65°	437	443	453	443	437	435
75°	225	211	242	211	225	241
85°	52	42	47	42	52	62
90°	22	1	22	1	22	13
95°	58	44	58	44	58	59
105°	177	167	177	167	177	187
115°	316	316	316	316	316	313
125°	456	462	456	462	456	408
135°	598	599	598	599	598	460
145°	727	727	727	727	727	454
155°	831	832	831	832	831	382
165°	903	906	903	906	903	255
175°	939	943	939	943	939	89
180°	945	945	945	945	945	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1721.5	1720.2	1717.1	1719.6	1714.6	1707.6	1707.0	1700.7	1682.5	1681.2	1676.2
5°	1927.1	1920.8	1920.0	1919.2	1908.2	1893.3	1865.0	1862.6	1824.9	1806.0	1783.3
7.5°	2193.3	2196.6	2185.2	2175.1	2141.5	2119.3	2089.0	2050.2	2003.8	1956.8	1925.5
10°	2384.5	2410.4	2378.2	2356.2	2335.8	2297.2	2252.5	2196.6	2140.8	2075.6	2026.1
12.5°	2589.5	2602.2	2595.7	2575.0	2543.2	2484.6	2405.2	2343.8	2292.4	2183.8	2139.9
15°	2868.6	2916.6	2885.9	2815.2	2816.7	2760.9	2657.2	2543.2	2482.7	2387.6	2258.0
17.5°	3166.0	3172.0	3158.9	3100.0	3060.7	2984.0	2888.3	2779.0	2656.4	2541.4	2403.8
20°	3324.4	3319.7	3292.2	3261.6	3194.0	3134.3	3029.7	2907.9	2750.7	2637.6	2487.4
22.5°	3412.5	3404.6	3391.6	3365.9	3309.7	3245.5	3151.7	3018.6	2868.9	2713.0	2539.6
25°	3404.6	3414.8	3416.4	3409.3	3389.7	3351.2	3277.3	3171.2	3021.9	2821.5	2640.7
27.5°	3096.5	3111.0	3153.0	3190.2	3231.9	3274.3	3268.6	3216.0	3105.5	2932.4	2711.4
30°	2788.4	2757.0	2834.8	2933.1	2999.9	3117.7	3183.8	3187.7	3125.6	2977.1	2761.7
32.5°	2360.9	2395.5	2429.9	2550.8	2696.8	2829.2	2960.6	3066.4	3078.5	2979.6	2791.3
35°	1834.3	1877.6	1940.4	2003.3	2160.5	2295.7	2526.7	2727.9	2888.3	2909.5	2793.9
37.5°	1478.2	1499.5	1539.3	1602.3	1705.1	1865.5	2044.2	2298.5	2530.8	2703.6	2711.1
40°	1292.1	1298.3	1343.1	1391.1	1474.4	1606.4	1767.5	1992.3	2270.5	2511.8	2612.4
42.5°	1152.5	1166.3	1185.3	1231.4	1297.7	1397.1	1546.9	1732.6	1987.6	2265.3	2462.1
45°	990.3	1006.0	1017.8	1048.4	1095.6	1162.4	1266.9	1436.7	1630.8	1917.6	2182.5
47.5°	883.1	884.3	893.1	916.2	948.3	998.4	1072.3	1181.4	1359.6	1592.3	1864.2
50°	806.4	818.9	822.1	840.1	865.3	902.2	963.5	1056.3	1202.5	1406.8	1656.7
52.5°	752.3	756.1	764.9	777.9	799.9	828.7	881.8	954.4	1069.2	1243.3	1473.1
55°	672.7	672.7	681.4	691.6	704.2	730.1	765.5	818.9	906.2	1041.3	1231.5
57.5°	599.2	603.1	609.2	612.4	623.1	640.2	669.8	710.3	775.4	879.4	1030.7
60°	550.1	557.2	556.4	562.7	572.2	585.5	610.7	643.7	701.8	785.1	912.5
62.5°	507.4	506.9	506.8	514.3	523.7	536.5	552.8	581.4	630.8	704.7	813.1
65°	437.0	435.4	440.9	445.6	448.8	458.2	470.8	495.9	528.9	583.9	668.0
67.5°	374.4	369.9	372.8	374.4	379.8	387.1	398.9	414.5	440.7	484.9	548.3
70°	331.7	327.7	326.9	328.5	333.2	338.7	347.4	362.3	386.7	422.0	468.4
72.5°	287.6	285.0	284.8	288.3	290.5	294.1	300.2	313.9	333.2	359.8	403.0
75°	224.8	224.8	224.8	225.6	227.9	231.1	235.8	242.8	257.8	276.6	305.7
77.5°	168.5	168.3	167.4	167.2	170.7	172.1	173.2	179.8	188.1	200.9	222.1
80°	132.0	128.1	129.7	132.0	133.6	134.4	136.8	138.3	145.4	152.5	167.4
82.5°	98.1	94.8	95.1	98.7	99.0	99.8	102.2	104.4	107.0	113.5	121.5
85°	51.9	51.9	52.7	52.7	53.4	52.7	55.0	55.8	55.8	59.7	64.4
87.5°	23.3	22.0	22.6	23.1	22.4	23.0	23.4	23.9	24.4	24.9	25.1
90°	22.3	21.9	21.6	21.3	20.9	20.5	19.8	19.1	18.5	17.8	15.7
92.5°	30.0	30.2	30.4	30.6	30.8	30.6	30.1	29.6	29.0	28.5	27.3
95°	57.9	57.9	57.9	57.9	57.9	57.6	56.9	56.2	55.6	54.9	53.6
97.5°	89.1	89.1	89.2	89.3	89.3	89.0	88.2	87.5	86.7	86.0	85.0
100°	112.8	112.5	112.2	111.8	111.5	111.1	110.6	110.1	109.6	109.1	108.3
102.5°	137.2	137.2	137.3	137.4	137.4	137.2	136.7	136.2	135.7	135.2	134.1
105°	176.7	176.3	176.0	175.7	175.3	175.2	175.2	175.2	175.2	175.2	173.7
107.5°	217.8	218.0	218.2	218.4	218.6	218.4	217.9	217.3	216.8	216.3	215.7
110°	245.7	246.0	246.3	246.7	247.0	246.8	246.2	245.5	244.9	244.2	243.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	275.4	275.4	275.5	275.6	275.6	275.3	274.5	273.7	272.9	272.1	272.0
115°	316.2	316.4	316.5	316.7	316.9	316.9	316.7	316.5	316.4	316.2	316.5
117.5°	357.6	358.1	358.5	359.0	359.5	359.7	359.7	359.8	359.8	359.8	360.3
120°	386.7	387.0	387.4	387.7	388.0	388.3	388.4	388.6	388.8	388.9	389.8
122.5°	414.6	415.1	415.5	416.0	416.5	416.9	417.3	417.8	418.2	418.6	419.1
125°	456.5	457.1	457.8	458.5	459.1	459.8	460.4	461.1	461.8	462.4	462.7
127.5°	498.2	499.0	499.7	500.5	501.2	502.1	503.0	503.9	504.8	505.8	506.1
130°	525.5	526.7	527.8	529.0	530.1	531.0	531.7	532.4	533.0	533.7	534.2
132.5°	554.0	554.9	555.8	556.7	557.6	558.4	559.2	560.0	560.8	561.6	561.9
135°	598.2	598.6	598.9	599.2	599.6	600.1	600.7	601.4	602.0	602.7	602.9
137.5°	637.3	637.9	638.5	639.2	639.8	640.5	641.1	641.8	642.5	643.2	642.8
140°	662.8	664.0	665.1	666.3	667.4	668.1	668.3	668.4	668.6	668.8	668.6
142.5°	688.9	689.8	690.7	691.6	692.5	693.0	693.2	693.4	693.5	693.7	693.4
145°	726.7	727.3	728.0	728.6	729.3	729.7	729.9	730.0	730.2	730.4	729.9
147.5°	760.2	761.2	762.2	763.2	764.2	764.7	764.7	764.7	764.7	764.7	764.2
150°	781.6	782.6	783.6	784.5	785.5	786.0	786.0	786.0	786.0	786.0	785.7
152.5°	802.4	803.2	804.1	804.9	805.8	806.1	805.8	805.6	805.3	805.0	804.8
155°	830.6	831.7	832.9	834.0	835.2	835.4	834.8	834.1	833.5	832.8	832.6
157.5°	856.2	857.2	858.1	859.0	859.9	860.1	859.4	858.7	858.0	857.3	857.2
160°	872.9	873.5	874.2	874.9	875.5	875.4	874.6	873.8	873.0	872.1	872.1
162.5°	885.3	886.4	887.5	888.5	889.6	889.7	888.9	888.0	887.2	886.4	886.3
165°	903.3	904.5	905.6	906.8	907.9	908.0	907.0	906.0	905.0	904.0	904.0
167.5°	918.6	919.6	920.6	921.7	922.7	922.7	921.7	920.6	919.6	918.6	918.5
170°	926.3	927.5	928.6	929.8	930.9	930.9	929.8	928.6	927.5	926.3	926.3
172.5°	932.3	933.4	934.6	935.7	936.9	936.9	935.9	934.9	933.9	932.8	932.8
175°	938.9	940.1	941.2	942.4	943.6	943.6	942.6	941.7	940.7	939.7	939.7
177.5°	942.5	943.4	944.3	945.3	946.2	946.3	945.5	944.7	943.9	943.1	943.1
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1672.4	1667.4	1662.4	1653.6	1646.0	1635.3	1632.2	1628.4	1617.1	1607.1	1599.5
5°	1774.6	1755.7	1728.2	1703.1	1682.7	1655.2	1639.4	1622.9	1599.3	1578.1	1560.8
7.5°	1881.5	1844.4	1801.6	1755.4	1712.4	1670.9	1637.4	1607.5	1574.5	1543.2	1518.9
10°	1966.4	1912.9	1853.2	1788.8	1733.7	1680.3	1635.5	1596.2	1553.8	1516.8	1486.2
12.5°	2063.2	1984.0	1901.6	1823.3	1758.3	1684.1	1629.8	1579.9	1531.8	1487.3	1452.9
15°	2177.8	2077.2	1979.7	1872.1	1773.0	1680.3	1615.9	1553.0	1497.2	1451.6	1407.6
17.5°	2282.2	2168.2	2039.8	1908.8	1789.4	1679.4	1589.1	1518.1	1448.3	1392.5	1348.6
20°	2341.3	2211.6	2066.2	1930.2	1798.2	1675.6	1576.6	1491.7	1416.2	1357.3	1307.8
22.5°	2392.2	2240.5	2090.1	1944.7	1797.6	1665.5	1553.3	1465.9	1384.2	1326.5	1273.8
25°	2445.0	2263.5	2112.6	1942.0	1777.8	1641.0	1515.3	1416.2	1334.5	1266.9	1212.7
27.5°	2490.3	2261.9	2082.8	1899.4	1746.6	1609.6	1475.3	1369.1	1282.3	1208.9	1153.9
30°	2520.4	2265.0	2052.0	1870.5	1716.5	1575.0	1444.5	1337.6	1246.5	1171.8	1119.9
32.5°	2539.3	2263.1	2023.7	1830.3	1668.7	1543.5	1411.2	1300.5	1206.9	1133.5	1083.5
35°	2550.3	2249.3	1975.0	1747.1	1591.5	1469.7	1358.9	1244.1	1145.9	1077.5	1020.9
37.5°	2528.3	2220.2	1918.4	1666.9	1496.6	1376.6	1283.4	1185.6	1091.6	1016.4	967.6
40°	2493.7	2201.4	1874.4	1610.4	1431.2	1315.6	1236.3	1140.4	1047.6	976.1	930.5
42.5°	2427.7	2163.0	1826.0	1547.5	1363.3	1247.7	1174.6	1094.5	1006.8	939.6	894.1
45°	2266.6	2079.5	1753.4	1453.2	1263.0	1143.5	1079.1	1020.9	941.5	876.3	837.0
47.5°	2043.1	1954.0	1648.4	1353.7	1158.3	1043.4	976.4	929.6	871.6	818.9	781.2
50°	1887.8	1850.8	1577.3	1285.8	1088.5	976.1	911.7	869.2	827.6	774.9	740.3
52.5°	1708.6	1731.4	1494.4	1215.3	1017.5	907.0	846.3	812.6	774.8	731.5	701.4
55°	1456.3	1538.8	1351.0	1097.1	911.7	806.4	749.0	719.1	697.1	664.9	639.0
57.5°	1220.1	1325.1	1196.0	975.3	807.8	716.9	661.9	629.4	615.2	598.4	578.0
60°	1079.9	1183.6	1085.4	893.6	738.0	651.5	602.8	575.3	561.1	549.4	532.1
62.5°	954.7	1059.7	977.2	810.6	669.4	589.3	546.8	520.0	509.0	502.8	488.1
65°	782.8	873.2	818.1	681.4	571.4	500.6	462.1	443.3	433.0	430.7	421.3
67.5°	637.1	705.9	665.8	565.2	478.6	417.5	384.8	368.8	360.9	360.1	353.0
70°	541.5	605.9	575.3	484.1	409.5	361.5	333.2	319.1	314.4	313.6	309.7
72.5°	467.3	512.3	487.9	411.8	354.1	310.6	289.8	275.1	269.7	270.8	268.2
75°	345.8	379.6	365.5	312.8	266.4	238.1	220.8	211.4	206.7	209.1	205.9
77.5°	248.8	270.2	257.5	221.0	192.4	172.0	159.2	153.4	149.2	149.0	147.6
80°	187.8	200.4	193.3	171.3	147.8	130.5	120.2	116.3	114.0	113.2	112.4
82.5°	133.8	144.5	136.1	121.0	105.0	94.6	88.8	83.6	81.9	82.4	81.6
85°	67.6	71.5	68.4	58.9	52.7	47.9	44.8	42.4	40.9	41.7	40.1
87.5°	26.0	26.2	23.9	21.0	19.4	17.2	16.8	15.2	14.3	14.6	14.3
90°	13.5	11.4	9.2	7.3	5.7	4.0	2.4	0.7	2.4	4.0	5.7
92.5°	26.1	24.8	23.6	22.4	21.3	20.2	19.1	18.0	19.1	20.2	21.3
95°	52.3	51.0	49.6	48.4	47.3	46.1	44.9	43.8	44.9	46.1	47.3
97.5°	84.0	83.1	82.1	81.2	80.4	79.5	78.6	77.8	78.6	79.5	80.4
100°	107.5	106.6	105.8	104.9	103.9	102.9	101.9	100.9	101.9	102.9	103.9
102.5°	133.1	132.0	130.9	130.0	129.4	128.9	128.3	127.7	128.3	128.9	129.4
105°	172.2	170.7	169.2	168.3	168.0	167.7	167.3	167.0	167.3	167.7	168.0
107.5°	215.1	214.5	213.9	213.5	213.3	213.1	212.9	212.7	212.9	213.1	213.3
110°	243.5	243.2	242.9	242.5	242.2	241.9	241.6	241.2	241.6	241.9	242.2



TEST NUMBER: P332217

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	272.0	271.9	271.8	271.7	271.5	271.3	271.1	270.9	271.1	271.3	271.5
115°	316.9	317.2	317.5	317.4	316.9	316.4	315.9	315.5	315.9	316.4	316.9
117.5°	360.7	361.1	361.6	361.6	361.3	360.9	360.6	360.3	360.6	360.9	361.3
120°	390.6	391.4	392.2	392.2	391.2	390.2	389.2	388.2	389.2	390.2	391.2
122.5°	419.5	419.9	420.3	420.2	419.5	418.7	418.0	417.3	418.0	418.7	419.5
125°	463.1	463.4	463.7	463.7	463.2	462.7	462.2	461.7	462.2	462.7	463.2
127.5°	506.5	506.9	507.2	506.9	505.8	504.8	503.7	502.6	503.7	504.8	505.8
130°	534.7	535.2	535.7	535.2	533.9	532.6	531.3	530.0	531.3	532.6	533.9
132.5°	562.3	562.7	563.0	562.6	561.2	559.9	558.6	557.3	558.6	559.9	561.2
135°	603.0	603.2	603.4	602.9	602.0	601.0	600.0	599.0	600.0	601.0	602.0
137.5°	642.4	641.9	641.5	640.9	640.1	639.2	638.4	637.6	638.4	639.2	640.1
140°	668.4	668.3	668.1	667.6	666.8	666.0	665.1	664.3	665.1	666.0	666.8
142.5°	693.1	692.8	692.5	691.9	691.1	690.3	689.5	688.7	689.5	690.3	691.1
145°	729.4	728.9	728.4	728.0	727.6	727.3	727.0	726.7	727.0	727.3	727.6
147.5°	763.7	763.3	762.8	762.3	761.7	761.1	760.5	759.9	760.5	761.1	761.7
150°	785.4	785.0	784.7	784.4	784.1	783.7	783.4	783.1	783.4	783.7	784.1
152.5°	804.6	804.4	804.2	803.9	803.5	803.0	802.5	802.1	802.5	803.0	803.5
155°	832.5	832.3	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1
157.5°	857.0	856.9	856.8	856.8	857.0	857.2	857.4	857.6	857.4	857.2	857.0
160°	872.1	872.1	872.1	872.3	872.6	873.0	873.3	873.6	873.3	873.0	872.6
162.5°	886.1	886.0	885.9	886.0	886.5	886.9	887.4	887.9	887.4	886.9	886.5
165°	904.0	904.0	904.0	904.3	904.8	905.3	905.8	906.3	905.8	905.3	904.8
167.5°	918.3	918.2	918.1	918.3	919.0	919.7	920.3	921.0	920.3	919.7	919.0
170°	926.3	926.3	926.3	926.6	927.3	928.0	928.6	929.3	928.6	928.0	927.3
172.5°	932.8	932.8	932.8	933.2	933.8	934.5	935.2	935.8	935.2	934.5	933.8
175°	939.7	939.7	939.7	940.0	940.7	941.3	942.0	942.6	942.0	941.3	940.7
177.5°	943.1	943.1	943.1	943.4	943.9	944.4	944.9	945.5	944.9	944.4	943.9
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1595.1	1590.7	1584.4	1575.0	1567.4	1555.5	1555.5	1557.4	1557.4	1556.8	1555.5
5°	1546.7	1534.9	1520.8	1504.3	1487.0	1469.7	1466.5	1460.2	1455.5	1452.4	1448.5
7.5°	1495.6	1474.7	1454.1	1431.0	1409.9	1392.5	1380.4	1370.3	1363.9	1357.0	1351.9
10°	1461.0	1435.1	1410.7	1386.4	1359.6	1338.4	1325.1	1315.6	1308.6	1302.3	1299.1
12.5°	1420.2	1390.5	1363.6	1340.5	1311.2	1289.4	1276.7	1272.2	1263.9	1250.7	1243.8
15°	1360.4	1332.9	1300.7	1265.3	1251.2	1224.5	1209.5	1202.5	1197.7	1187.5	1184.4
17.5°	1309.3	1273.3	1237.2	1210.8	1184.5	1162.8	1154.5	1145.7	1139.4	1131.1	1128.6
20°	1268.5	1236.3	1203.2	1175.0	1147.4	1123.9	1116.8	1110.5	1104.2	1100.3	1097.1
22.5°	1227.0	1194.8	1167.4	1141.0	1111.6	1096.2	1088.5	1081.6	1077.2	1074.5	1071.4
25°	1168.7	1140.4	1109.7	1086.1	1062.6	1052.3	1047.6	1043.7	1040.6	1036.6	1035.8
27.5°	1116.5	1085.7	1060.8	1038.8	1021.9	1013.4	1008.8	1006.9	1007.6	1009.0	1009.9
30°	1077.5	1049.2	1028.8	1009.9	994.2	986.3	985.5	985.5	988.7	989.5	991.0
32.5°	1041.7	1018.4	998.0	979.7	967.8	962.4	965.4	965.4	967.9	970.0	972.8
35°	989.5	969.0	953.3	937.6	927.4	929.7	931.3	932.9	936.8	941.5	944.7
37.5°	939.6	921.9	905.5	893.3	888.6	892.8	896.6	899.9	904.4	908.1	911.2
40°	903.8	890.4	874.7	863.7	865.3	867.7	870.8	874.7	878.7	881.0	884.2
42.5°	870.5	856.5	844.6	835.4	837.6	840.6	842.5	844.6	849.1	853.4	855.2
45°	819.7	808.7	797.7	792.2	793.8	795.4	796.9	799.3	803.2	806.4	807.1
47.5°	762.7	755.0	747.6	742.2	744.7	744.1	746.2	751.2	752.4	754.3	758.7
50°	726.2	719.1	710.5	708.9	708.9	708.9	709.7	716.0	716.0	719.1	722.3
52.5°	686.0	681.4	675.9	673.1	671.8	671.8	675.1	678.3	679.5	683.9	687.1
55°	626.4	621.7	616.9	614.6	613.0	614.6	620.9	622.4	626.4	628.7	631.1
57.5°	564.3	560.7	556.9	555.6	555.3	557.4	560.8	565.5	566.5	573.7	577.3
60°	523.4	517.9	514.8	514.8	513.2	520.3	518.7	526.6	528.1	532.9	538.4
62.5°	481.3	473.9	472.7	472.7	474.9	476.9	479.1	482.6	486.6	492.6	496.9
65°	413.4	409.5	415.0	414.2	412.6	417.3	417.3	421.3	426.0	431.5	440.1
67.5°	349.1	347.1	347.5	347.5	349.9	352.6	354.8	358.2	363.9	369.7	375.4
70°	305.7	308.1	304.2	307.3	309.7	310.4	312.0	316.7	323.0	326.9	333.2
72.5°	263.6	263.4	263.9	265.2	267.5	268.9	270.5	275.9	282.8	286.1	291.1
75°	202.8	202.0	204.3	204.3	208.3	209.8	211.4	213.8	220.1	224.8	228.7
77.5°	148.1	149.0	148.5	151.2	150.1	150.4	155.3	157.7	158.3	167.6	169.6
80°	111.6	113.2	114.0	114.7	115.5	114.0	119.5	121.8	121.8	127.3	131.2
82.5°	80.2	81.1	83.2	83.9	84.1	85.7	86.1	87.9	89.8	92.1	97.3
85°	40.1	42.4	43.2	42.4	43.2	41.7	44.0	44.8	45.6	45.6	45.6
87.5°	14.0	15.1	14.9	15.9	15.7	16.8	16.9	15.8	15.9	17.9	15.5
90°	7.3	9.2	11.4	13.5	15.7	17.8	18.5	19.1	19.8	20.5	20.9
92.5°	22.4	23.6	24.8	26.1	27.3	28.5	29.0	29.6	30.1	30.6	30.8
95°	48.4	49.6	51.0	52.3	53.6	54.9	55.6	56.2	56.9	57.6	57.9
97.5°	81.2	82.1	83.1	84.0	85.0	86.0	86.7	87.5	88.2	89.0	89.3
100°	104.9	105.8	106.6	107.5	108.3	109.1	109.6	110.1	110.6	111.1	111.5
102.5°	130.0	130.9	132.0	133.1	134.1	135.2	135.7	136.2	136.7	137.2	137.4
105°	168.3	169.2	170.7	172.2	173.7	175.2	175.2	175.2	175.2	175.2	175.3
107.5°	213.5	213.9	214.5	215.1	215.7	216.3	216.8	217.3	217.9	218.4	218.6
110°	242.5	242.9	243.2	243.5	243.9	244.2	244.9	245.5	246.2	246.8	247.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	271.7	271.8	271.9	272.0	272.0	272.1	272.9	273.7	274.5	275.3	275.6
115°	317.4	317.5	317.2	316.9	316.5	316.2	316.4	316.5	316.7	316.9	316.9
117.5°	361.6	361.6	361.1	360.7	360.3	359.8	359.8	359.8	359.7	359.7	359.5
120°	392.2	392.2	391.4	390.6	389.8	388.9	388.8	388.6	388.4	388.3	388.0
122.5°	420.2	420.3	419.9	419.5	419.1	418.6	418.2	417.8	417.3	416.9	416.5
125°	463.7	463.7	463.4	463.1	462.7	462.4	461.8	461.1	460.4	459.8	459.1
127.5°	506.9	507.2	506.9	506.5	506.1	505.8	504.8	503.9	503.0	502.1	501.2
130°	535.2	535.7	535.2	534.7	534.2	533.7	533.0	532.4	531.7	531.0	530.1
132.5°	562.6	563.0	562.7	562.3	561.9	561.6	560.8	560.0	559.2	558.4	557.6
135°	602.9	603.4	603.2	603.0	602.9	602.7	602.0	601.4	600.7	600.1	599.6
137.5°	640.9	641.5	641.9	642.4	642.8	643.2	642.5	641.8	641.1	640.5	639.8
140°	667.6	668.1	668.3	668.4	668.6	668.8	668.6	668.4	668.3	668.1	667.4
142.5°	691.9	692.5	692.8	693.1	693.4	693.7	693.5	693.4	693.2	693.0	692.5
145°	728.0	728.4	728.9	729.4	729.9	730.4	730.2	730.0	729.9	729.7	729.3
147.5°	762.3	762.8	763.3	763.7	764.2	764.7	764.7	764.7	764.7	764.7	764.2
150°	784.4	784.7	785.0	785.4	785.7	786.0	786.0	786.0	786.0	786.0	785.5
152.5°	803.9	804.2	804.4	804.6	804.8	805.0	805.3	805.6	805.8	806.1	805.8
155°	832.1	832.1	832.3	832.5	832.6	832.8	833.5	834.1	834.8	835.4	835.2
157.5°	856.8	856.8	856.9	857.0	857.2	857.3	858.0	858.7	859.4	860.1	859.9
160°	872.3	872.1	872.1	872.1	872.1	872.1	873.0	873.8	874.6	875.4	875.5
162.5°	886.0	885.9	886.0	886.1	886.3	886.4	887.2	888.0	888.9	889.7	889.6
165°	904.3	904.0	904.0	904.0	904.0	904.0	905.0	906.0	907.0	908.0	907.9
167.5°	918.3	918.1	918.2	918.3	918.5	918.6	919.6	920.6	921.7	922.7	922.7
170°	926.6	926.3	926.3	926.3	926.3	926.3	927.5	928.6	929.8	930.9	930.9
172.5°	933.2	932.8	932.8	932.8	932.8	932.8	933.9	934.9	935.9	936.9	936.9
175°	940.0	939.7	939.7	939.7	939.7	939.7	940.7	941.7	942.6	943.6	943.6
177.5°	943.4	943.1	943.1	943.1	943.1	943.1	943.9	944.7	945.5	946.3	946.2
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9



TEST NUMBER: P332217

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1551.1	1550.5	1554.9	1551.7	1554.9	1550.5	1551.1	1555.5	1556.8	1557.4	1557.4
5°	1443.7	1446.1	1438.2	1438.2	1438.2	1446.1	1443.7	1448.5	1452.4	1455.5	1460.2
7.5°	1348.2	1344.7	1345.0	1340.8	1345.0	1344.7	1348.2	1351.9	1357.0	1363.9	1370.3
10°	1289.7	1285.0	1283.4	1284.2	1283.4	1285.0	1289.7	1299.1	1302.3	1308.6	1315.6
12.5°	1241.3	1240.3	1230.0	1230.1	1230.0	1240.3	1241.3	1243.8	1250.7	1263.9	1272.2
15°	1184.4	1169.5	1167.9	1172.6	1167.9	1169.5	1184.4	1184.4	1187.5	1197.7	1202.5
17.5°	1127.3	1119.5	1119.9	1117.6	1119.9	1119.5	1127.3	1128.6	1131.1	1139.4	1145.7
20°	1097.1	1092.4	1091.6	1086.1	1091.6	1092.4	1097.1	1097.1	1100.3	1104.2	1110.5
22.5°	1069.5	1067.9	1068.4	1062.3	1068.4	1067.9	1069.5	1071.4	1074.5	1077.2	1081.6
25°	1035.1	1039.0	1035.8	1035.8	1035.8	1039.0	1035.1	1035.8	1036.6	1040.6	1043.7
27.5°	1011.8	1011.6	1010.1	1010.1	1010.1	1011.6	1011.8	1009.9	1009.0	1007.6	1006.9
30°	994.2	993.4	995.0	995.0	995.0	993.4	994.2	991.0	989.5	988.7	985.5
32.5°	976.6	977.7	978.0	978.6	978.0	977.7	976.6	972.8	970.0	967.9	965.4
35°	949.4	950.2	952.5	951.0	952.5	950.2	949.4	944.7	941.5	936.8	932.9
37.5°	912.6	916.2	915.4	916.7	915.4	916.2	912.6	911.2	908.1	904.4	899.9
40°	884.9	887.3	886.5	886.5	886.5	887.3	884.9	884.2	881.0	878.7	874.7
42.5°	856.7	858.4	856.3	855.1	856.3	858.4	856.7	855.2	853.4	849.1	844.6
45°	810.3	808.7	811.1	807.9	811.1	808.7	810.3	807.1	806.4	803.2	799.3
47.5°	758.4	760.0	760.6	763.0	760.6	760.0	758.4	758.7	754.3	752.4	751.2
50°	723.8	728.5	728.5	727.8	728.5	728.5	723.8	722.3	719.1	716.0	716.0
52.5°	689.9	692.1	695.2	695.1	695.2	692.1	689.9	687.1	683.9	679.5	678.3
55°	637.4	639.0	640.5	641.3	640.5	639.0	637.4	631.1	628.7	626.4	622.4
57.5°	583.0	582.4	586.1	587.2	586.1	582.4	583.0	577.3	573.7	566.5	565.5
60°	544.6	544.6	550.9	553.3	550.9	544.6	544.6	538.4	532.9	528.1	526.6
62.5°	503.8	506.3	512.6	509.3	512.6	506.3	503.8	496.9	492.6	486.6	482.6
65°	444.0	450.3	449.5	452.7	449.5	450.3	444.0	440.1	431.5	426.0	421.3
67.5°	381.6	385.6	391.2	391.7	391.2	385.6	381.6	375.4	369.7	363.9	358.2
70°	339.5	343.4	346.6	348.9	346.6	343.4	339.5	333.2	326.9	323.0	316.7
72.5°	298.7	300.7	308.2	304.9	308.2	300.7	298.7	291.1	286.1	282.8	275.9
75°	234.2	239.7	244.4	242.1	244.4	239.7	234.2	228.7	224.8	220.1	213.8
77.5°	173.2	178.7	180.9	178.9	180.9	178.7	173.2	169.6	167.6	158.3	157.7
80°	136.8	136.0	140.7	139.9	140.7	136.0	136.8	131.2	127.3	121.8	121.8
82.5°	100.3	99.5	101.7	102.2	101.7	99.5	100.3	97.3	92.1	89.8	87.9
85°	48.7	51.1	47.9	47.2	47.9	51.1	48.7	45.6	45.6	45.6	44.8
87.5°	15.6	15.6	15.1	14.5	15.1	15.6	15.6	15.5	17.9	15.9	15.8
90°	21.3	21.6	21.9	22.3	21.9	21.6	21.3	20.9	20.5	19.8	19.1
92.5°	30.6	30.4	30.2	30.0	30.2	30.4	30.6	30.8	30.6	30.1	29.6
95°	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.6	56.9	56.2
97.5°	89.3	89.2	89.1	89.1	89.1	89.2	89.3	89.3	89.0	88.2	87.5
100°	111.8	112.2	112.5	112.8	112.5	112.2	111.8	111.5	111.1	110.6	110.1
102.5°	137.4	137.3	137.2	137.2	137.2	137.3	137.4	137.4	137.2	136.7	136.2
105°	175.7	176.0	176.3	176.7	176.3	176.0	175.7	175.3	175.2	175.2	175.2
107.5°	218.4	218.2	218.0	217.8	218.0	218.2	218.4	218.6	218.4	217.9	217.3
110°	246.7	246.3	246.0	245.7	246.0	246.3	246.7	247.0	246.8	246.2	245.5



TEST NUMBER: P332217

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	275.6	275.5	275.4	275.4	275.4	275.5	275.6	275.6	275.3	274.5	273.7
115°	316.7	316.5	316.4	316.2	316.4	316.5	316.7	316.9	316.9	316.7	316.5
117.5°	359.0	358.5	358.1	357.6	358.1	358.5	359.0	359.5	359.7	359.7	359.8
120°	387.7	387.4	387.0	386.7	387.0	387.4	387.7	388.0	388.3	388.4	388.6
122.5°	416.0	415.5	415.1	414.6	415.1	415.5	416.0	416.5	416.9	417.3	417.8
125°	458.5	457.8	457.1	456.5	457.1	457.8	458.5	459.1	459.8	460.4	461.1
127.5°	500.5	499.7	499.0	498.2	499.0	499.7	500.5	501.2	502.1	503.0	503.9
130°	529.0	527.8	526.7	525.5	526.7	527.8	529.0	530.1	531.0	531.7	532.4
132.5°	556.7	555.8	554.9	554.0	554.9	555.8	556.7	557.6	558.4	559.2	560.0
135°	599.2	598.9	598.6	598.2	598.6	598.9	599.2	599.6	600.1	600.7	601.4
137.5°	639.2	638.5	637.9	637.3	637.9	638.5	639.2	639.8	640.5	641.1	641.8
140°	666.3	665.1	664.0	662.8	664.0	665.1	666.3	667.4	668.1	668.3	668.4
142.5°	691.6	690.7	689.8	688.9	689.8	690.7	691.6	692.5	693.0	693.2	693.4
145°	728.6	728.0	727.3	726.7	727.3	728.0	728.6	729.3	729.7	729.9	730.0
147.5°	763.2	762.2	761.2	760.2	761.2	762.2	763.2	764.2	764.7	764.7	764.7
150°	784.5	783.6	782.6	781.6	782.6	783.6	784.5	785.5	786.0	786.0	786.0
152.5°	804.9	804.1	803.2	802.4	803.2	804.1	804.9	805.8	806.1	805.8	805.6
155°	834.0	832.9	831.7	830.6	831.7	832.9	834.0	835.2	835.4	834.8	834.1
157.5°	859.0	858.1	857.2	856.2	857.2	858.1	859.0	859.9	860.1	859.4	858.7
160°	874.9	874.2	873.5	872.9	873.5	874.2	874.9	875.5	875.4	874.6	873.8
162.5°	888.5	887.5	886.4	885.3	886.4	887.5	888.5	889.6	889.7	888.9	888.0
165°	906.8	905.6	904.5	903.3	904.5	905.6	906.8	907.9	908.0	907.0	906.0
167.5°	921.7	920.6	919.6	918.6	919.6	920.6	921.7	922.7	922.7	921.7	920.6
170°	929.8	928.6	927.5	926.3	927.5	928.6	929.8	930.9	930.9	929.8	928.6
172.5°	935.7	934.6	933.4	932.3	933.4	934.6	935.7	936.9	936.9	935.9	934.9
175°	942.4	941.2	940.1	938.9	940.1	941.2	942.4	943.6	943.6	942.6	941.7
177.5°	945.3	944.3	943.4	942.5	943.4	944.3	945.3	946.2	946.3	945.5	944.7
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1555.5	1555.5	1567.4	1575.0	1584.4	1590.7	1595.1	1599.5	1607.1	1617.1	1628.4
5°	1466.5	1469.7	1487.0	1504.3	1520.8	1534.9	1546.7	1560.8	1578.1	1599.3	1622.9
7.5°	1380.4	1392.5	1409.9	1431.0	1454.1	1474.7	1495.6	1518.9	1543.2	1574.5	1607.5
10°	1325.1	1338.4	1359.6	1386.4	1410.7	1435.1	1461.0	1486.2	1516.8	1553.8	1596.2
12.5°	1276.7	1289.4	1311.2	1340.5	1363.6	1390.5	1420.2	1452.9	1487.3	1531.8	1579.9
15°	1209.5	1224.5	1251.2	1265.3	1300.7	1332.9	1360.4	1407.6	1451.6	1497.2	1553.0
17.5°	1154.5	1162.8	1184.5	1210.8	1237.2	1273.3	1309.3	1348.6	1392.5	1448.3	1518.1
20°	1116.8	1123.9	1147.4	1175.0	1203.2	1236.3	1268.5	1307.8	1357.3	1416.2	1491.7
22.5°	1088.5	1096.2	1111.6	1141.0	1167.4	1194.8	1227.0	1273.8	1326.5	1384.2	1465.9
25°	1047.6	1052.3	1062.6	1086.1	1109.7	1140.4	1168.7	1212.7	1266.9	1334.5	1416.2
27.5°	1008.8	1013.4	1021.9	1038.8	1060.8	1085.7	1116.5	1153.9	1208.9	1282.3	1369.1
30°	985.5	986.3	994.2	1009.9	1028.8	1049.2	1077.5	1119.9	1171.8	1246.5	1337.6
32.5°	965.4	962.4	967.8	979.7	998.0	1018.4	1041.7	1083.5	1133.5	1206.9	1300.5
35°	931.3	929.7	927.4	937.6	953.3	969.0	989.5	1020.9	1077.5	1145.9	1244.1
37.5°	896.6	892.8	888.6	893.3	905.5	921.9	939.6	967.6	1016.4	1091.6	1185.6
40°	870.8	867.7	865.3	863.7	874.7	890.4	903.8	930.5	976.1	1047.6	1140.4
42.5°	842.5	840.6	837.6	835.4	844.6	856.5	870.5	894.1	939.6	1006.8	1094.5
45°	796.9	795.4	793.8	792.2	797.7	808.7	819.7	837.0	876.3	941.5	1020.9
47.5°	746.2	744.1	744.7	742.2	747.6	755.0	762.7	781.2	818.9	871.6	929.6
50°	709.7	708.9	708.9	708.9	710.5	719.1	726.2	740.3	774.9	827.6	869.2
52.5°	675.1	671.8	671.8	673.1	675.9	681.4	686.0	701.4	731.5	774.8	812.6
55°	620.9	614.6	613.0	614.6	616.9	621.7	626.4	639.0	664.9	697.1	719.1
57.5°	560.8	557.4	555.3	555.6	556.9	560.7	564.3	578.0	598.4	615.2	629.4
60°	518.7	520.3	513.2	514.8	514.8	517.9	523.4	532.1	549.4	561.1	575.3
62.5°	479.1	476.9	474.9	472.7	472.7	473.9	481.3	488.1	502.8	509.0	520.0
65°	417.3	417.3	412.6	414.2	415.0	409.5	413.4	421.3	430.7	433.0	443.3
67.5°	354.8	352.6	349.9	347.5	347.5	347.1	349.1	353.0	360.1	360.9	368.8
70°	312.0	310.4	309.7	307.3	304.2	308.1	305.7	309.7	313.6	314.4	319.1
72.5°	270.5	268.9	267.5	265.2	263.9	263.4	263.6	268.2	270.8	269.7	275.1
75°	211.4	209.8	208.3	204.3	204.3	202.0	202.8	205.9	209.1	206.7	211.4
77.5°	155.3	150.4	150.1	151.2	148.5	149.0	148.1	147.6	149.0	149.2	153.4
80°	119.5	114.0	115.5	114.7	114.0	113.2	111.6	112.4	113.2	114.0	116.3
82.5°	86.1	85.7	84.1	83.9	83.2	81.1	80.2	81.6	82.4	81.9	83.6
85°	44.0	41.7	43.2	42.4	43.2	42.4	40.1	40.1	41.7	40.9	42.4
87.5°	16.9	16.8	15.7	15.9	14.9	15.1	14.0	14.3	14.6	14.3	15.2
90°	18.5	17.8	15.7	13.5	11.4	9.2	7.3	5.7	4.0	2.4	0.7
92.5°	29.0	28.5	27.3	26.1	24.8	23.6	22.4	21.3	20.2	19.1	18.0
95°	55.6	54.9	53.6	52.3	51.0	49.6	48.4	47.3	46.1	44.9	43.8
97.5°	86.7	86.0	85.0	84.0	83.1	82.1	81.2	80.4	79.5	78.6	77.8
100°	109.6	109.1	108.3	107.5	106.6	105.8	104.9	103.9	102.9	101.9	100.9
102.5°	135.7	135.2	134.1	133.1	132.0	130.9	130.0	129.4	128.9	128.3	127.7
105°	175.2	175.2	173.7	172.2	170.7	169.2	168.3	168.0	167.7	167.3	167.0
107.5°	216.8	216.3	215.7	215.1	214.5	213.9	213.5	213.3	213.1	212.9	212.7
110°	244.9	244.2	243.9	243.5	243.2	242.9	242.5	242.2	241.9	241.6	241.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	272.9	272.1	272.0	272.0	271.9	271.8	271.7	271.5	271.3	271.1	270.9
115°	316.4	316.2	316.5	316.9	317.2	317.5	317.4	316.9	316.4	315.9	315.5
117.5°	359.8	359.8	360.3	360.7	361.1	361.6	361.6	361.3	360.9	360.6	360.3
120°	388.8	388.9	389.8	390.6	391.4	392.2	392.2	391.2	390.2	389.2	388.2
122.5°	418.2	418.6	419.1	419.5	419.9	420.3	420.2	419.5	418.7	418.0	417.3
125°	461.8	462.4	462.7	463.1	463.4	463.7	463.7	463.2	462.7	462.2	461.7
127.5°	504.8	505.8	506.1	506.5	506.9	507.2	506.9	505.8	504.8	503.7	502.6
130°	533.0	533.7	534.2	534.7	535.2	535.7	535.2	533.9	532.6	531.3	530.0
132.5°	560.8	561.6	561.9	562.3	562.7	563.0	562.6	561.2	559.9	558.6	557.3
135°	602.0	602.7	602.9	603.0	603.2	603.4	602.9	602.0	601.0	600.0	599.0
137.5°	642.5	643.2	642.8	642.4	641.9	641.5	640.9	640.1	639.2	638.4	637.6
140°	668.6	668.8	668.6	668.4	668.3	668.1	667.6	666.8	666.0	665.1	664.3
142.5°	693.5	693.7	693.4	693.1	692.8	692.5	691.9	691.1	690.3	689.5	688.7
145°	730.2	730.4	729.9	729.4	728.9	728.4	728.0	727.6	727.3	727.0	726.7
147.5°	764.7	764.7	764.2	763.7	763.3	762.8	762.3	761.7	761.1	760.5	759.9
150°	786.0	786.0	785.7	785.4	785.0	784.7	784.4	784.1	783.7	783.4	783.1
152.5°	805.3	805.0	804.8	804.6	804.4	804.2	803.9	803.5	803.0	802.5	802.1
155°	833.5	832.8	832.6	832.5	832.3	832.1	832.1	832.1	832.1	832.1	832.1
157.5°	858.0	857.3	857.2	857.0	856.9	856.8	856.8	857.0	857.2	857.4	857.6
160°	873.0	872.1	872.1	872.1	872.1	872.1	872.3	872.6	873.0	873.3	873.6
162.5°	887.2	886.4	886.3	886.1	886.0	885.9	886.0	886.5	886.9	887.4	887.9
165°	905.0	904.0	904.0	904.0	904.0	904.0	904.3	904.8	905.3	905.8	906.3
167.5°	919.6	918.6	918.5	918.3	918.2	918.1	918.3	919.0	919.7	920.3	921.0
170°	927.5	926.3	926.3	926.3	926.3	926.3	926.6	927.3	928.0	928.6	929.3
172.5°	933.9	932.8	932.8	932.8	932.8	932.8	933.2	933.8	934.5	935.2	935.8
175°	940.7	939.7	939.7	939.7	939.7	939.7	940.0	940.7	941.3	942.0	942.6
177.5°	943.9	943.1	943.1	943.1	943.1	943.1	943.4	943.9	944.4	944.9	945.5
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9



TEST NUMBER: P332217

CATALOG NUMBER: S123DIW-S1165D755U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1632.2	1635.3	1646.0	1653.6	1662.4	1667.4	1672.4	1676.2	1681.2	1682.5	1700.7
5°	1639.4	1655.2	1682.7	1703.1	1728.2	1755.7	1774.6	1783.3	1806.0	1824.9	1862.6
7.5°	1637.4	1670.9	1712.4	1755.4	1801.6	1844.4	1881.5	1925.5	1956.8	2003.8	2050.2
10°	1635.5	1680.3	1733.7	1788.8	1853.2	1912.9	1966.4	2026.1	2075.6	2140.8	2196.6
12.5°	1629.8	1684.1	1758.3	1823.3	1901.6	1984.0	2063.2	2139.9	2183.8	2292.4	2343.8
15°	1615.9	1680.3	1773.0	1872.1	1979.7	2077.2	2177.8	2258.0	2387.6	2482.7	2543.2
17.5°	1589.1	1679.4	1789.4	1908.8	2039.8	2168.2	2282.2	2403.8	2541.4	2656.4	2779.0
20°	1576.6	1675.6	1798.2	1930.2	2066.2	2211.6	2341.3	2487.4	2637.6	2750.7	2907.9
22.5°	1553.3	1665.5	1797.6	1944.7	2090.1	2240.5	2392.2	2539.6	2713.0	2868.9	3018.6
25°	1515.3	1641.0	1777.8	1942.0	2112.6	2263.5	2445.0	2640.7	2821.5	3021.9	3171.2
27.5°	1475.3	1609.6	1746.6	1899.4	2082.8	2261.9	2490.3	2711.4	2932.4	3105.5	3216.0
30°	1444.5	1575.0	1716.5	1870.5	2052.0	2265.0	2520.4	2761.7	2977.1	3125.6	3187.7
32.5°	1411.2	1543.5	1668.7	1830.3	2023.7	2263.1	2539.3	2791.3	2979.6	3078.5	3066.4
35°	1358.9	1469.7	1591.5	1747.1	1975.0	2249.3	2550.3	2793.9	2909.5	2888.3	2727.9
37.5°	1283.4	1376.6	1496.6	1666.9	1918.4	2220.2	2528.3	2711.1	2703.6	2530.8	2298.5
40°	1236.3	1315.6	1431.2	1610.4	1874.4	2201.4	2493.7	2612.4	2511.8	2270.5	1992.3
42.5°	1174.6	1247.7	1363.3	1547.5	1826.0	2163.0	2427.7	2462.1	2265.3	1987.6	1732.6
45°	1079.1	1143.5	1263.0	1453.2	1753.4	2079.5	2266.6	2182.5	1917.6	1630.8	1436.7
47.5°	976.4	1043.4	1158.3	1353.7	1648.4	1954.0	2043.1	1864.2	1592.3	1359.6	1181.4
50°	911.7	976.1	1088.5	1285.8	1577.3	1850.8	1887.8	1656.7	1406.8	1202.5	1056.3
52.5°	846.3	907.0	1017.5	1215.3	1494.4	1731.4	1708.6	1473.1	1243.3	1069.2	954.4
55°	749.0	806.4	911.7	1097.1	1351.0	1538.8	1456.3	1231.5	1041.3	906.2	818.9
57.5°	661.9	716.9	807.8	975.3	1196.0	1325.1	1220.1	1030.7	879.4	775.4	710.3
60°	602.8	651.5	738.0	893.6	1085.4	1183.6	1079.9	912.5	785.1	701.8	643.7
62.5°	546.8	589.3	669.4	810.6	977.2	1059.7	954.7	813.1	704.7	630.8	581.4
65°	462.1	500.6	571.4	681.4	818.1	873.2	782.8	668.0	583.9	528.9	495.9
67.5°	384.8	417.5	478.6	565.2	665.8	705.9	637.1	548.3	484.9	440.7	414.5
70°	333.2	361.5	409.5	484.1	575.3	605.9	541.5	468.4	422.0	386.7	362.3
72.5°	289.8	310.6	354.1	411.8	487.9	512.3	467.3	403.0	359.8	333.2	313.9
75°	220.8	238.1	266.4	312.8	365.5	379.6	345.8	305.7	276.6	257.8	242.8
77.5°	159.2	172.0	192.4	221.0	257.5	270.2	248.8	222.1	200.9	188.1	179.8
80°	120.2	130.5	147.8	171.3	193.3	200.4	187.8	167.4	152.5	145.4	138.3
82.5°	88.8	94.6	105.0	121.0	136.1	144.5	133.8	121.5	113.5	107.0	104.4
85°	44.8	47.9	52.7	58.9	68.4	71.5	67.6	64.4	59.7	55.8	55.8
87.5°	16.8	17.2	19.4	21.0	23.9	26.2	26.0	25.1	24.9	24.4	23.9
90°	2.4	4.0	5.7	7.3	9.2	11.4	13.5	15.7	17.8	18.5	19.1
92.5°	19.1	20.2	21.3	22.4	23.6	24.8	26.1	27.3	28.5	29.0	29.6
95°	44.9	46.1	47.3	48.4	49.6	51.0	52.3	53.6	54.9	55.6	56.2
97.5°	78.6	79.5	80.4	81.2	82.1	83.1	84.0	85.0	86.0	86.7	87.5
100°	101.9	102.9	103.9	104.9	105.8	106.6	107.5	108.3	109.1	109.6	110.1
102.5°	128.3	128.9	129.4	130.0	130.9	132.0	133.1	134.1	135.2	135.7	136.2
105°	167.3	167.7	168.0	168.3	169.2	170.7	172.2	173.7	175.2	175.2	175.2
107.5°	212.9	213.1	213.3	213.5	213.9	214.5	215.1	215.7	216.3	216.8	217.3
110°	241.6	241.9	242.2	242.5	242.9	243.2	243.5	243.9	244.2	244.9	245.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	271.1	271.3	271.5	271.7	271.8	271.9	272.0	272.0	272.1	272.9	273.7
115°	315.9	316.4	316.9	317.4	317.5	317.2	316.9	316.5	316.2	316.4	316.5
117.5°	360.6	360.9	361.3	361.6	361.6	361.1	360.7	360.3	359.8	359.8	359.8
120°	389.2	390.2	391.2	392.2	392.2	391.4	390.6	389.8	388.9	388.8	388.6
122.5°	418.0	418.7	419.5	420.2	420.3	419.9	419.5	419.1	418.6	418.2	417.8
125°	462.2	462.7	463.2	463.7	463.7	463.4	463.1	462.7	462.4	461.8	461.1
127.5°	503.7	504.8	505.8	506.9	507.2	506.9	506.5	506.1	505.8	504.8	503.9
130°	531.3	532.6	533.9	535.2	535.7	535.2	534.7	534.2	533.7	533.0	532.4
132.5°	558.6	559.9	561.2	562.6	563.0	562.7	562.3	561.9	561.6	560.8	560.0
135°	600.0	601.0	602.0	602.9	603.4	603.2	603.0	602.9	602.7	602.0	601.4
137.5°	638.4	639.2	640.1	640.9	641.5	641.9	642.4	642.8	643.2	642.5	641.8
140°	665.1	666.0	666.8	667.6	668.1	668.3	668.4	668.6	668.8	668.6	668.4
142.5°	689.5	690.3	691.1	691.9	692.5	692.8	693.1	693.4	693.7	693.5	693.4
145°	727.0	727.3	727.6	728.0	728.4	728.9	729.4	729.9	730.4	730.2	730.0
147.5°	760.5	761.1	761.7	762.3	762.8	763.3	763.7	764.2	764.7	764.7	764.7
150°	783.4	783.7	784.1	784.4	784.7	785.0	785.4	785.7	786.0	786.0	786.0
152.5°	802.5	803.0	803.5	803.9	804.2	804.4	804.6	804.8	805.0	805.3	805.6
155°	832.1	832.1	832.1	832.1	832.1	832.3	832.5	832.6	832.8	833.5	834.1
157.5°	857.4	857.2	857.0	856.8	856.8	856.9	857.0	857.2	857.3	858.0	858.7
160°	873.3	873.0	872.6	872.3	872.1	872.1	872.1	872.1	872.1	873.0	873.8
162.5°	887.4	886.9	886.5	886.0	885.9	886.0	886.1	886.3	886.4	887.2	888.0
165°	905.8	905.3	904.8	904.3	904.0	904.0	904.0	904.0	904.0	905.0	906.0
167.5°	920.3	919.7	919.0	918.3	918.1	918.2	918.3	918.5	918.6	919.6	920.6
170°	928.6	928.0	927.3	926.6	926.3	926.3	926.3	926.3	926.3	927.5	928.6
172.5°	935.2	934.5	933.8	933.2	932.8	932.8	932.8	932.8	932.8	933.9	934.9
175°	942.0	941.3	940.7	940.0	939.7	939.7	939.7	939.7	939.7	940.7	941.7
177.5°	944.9	944.4	943.9	943.4	943.1	943.1	943.1	943.1	943.1	943.9	944.7
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1707.0	1707.6	1714.6	1719.6	1717.1	1720.2	1721.5
5°	1865.0	1893.3	1908.2	1919.2	1920.0	1920.8	1927.1
7.5°	2089.0	2119.3	2141.5	2175.1	2185.2	2196.6	2193.3
10°	2252.5	2297.2	2335.8	2356.2	2378.2	2410.4	2384.5
12.5°	2405.2	2484.6	2543.2	2575.0	2595.7	2602.2	2589.5
15°	2657.2	2760.9	2816.7	2815.2	2885.9	2916.6	2868.6
17.5°	2888.3	2984.0	3060.7	3100.0	3158.9	3172.0	3166.0
20°	3029.7	3134.3	3194.0	3261.6	3292.2	3319.7	3324.4
22.5°	3151.7	3245.5	3309.7	3365.9	3391.6	3404.6	3412.5
25°	3277.3	3351.2	3389.7	3409.3	3416.4	3414.8	3404.6
27.5°	3268.6	3274.3	3231.9	3190.2	3153.0	3111.0	3096.5
30°	3183.8	3117.7	2999.9	2933.1	2834.8	2757.0	2788.4
32.5°	2960.6	2829.2	2696.8	2550.8	2429.9	2395.5	2360.9
35°	2526.7	2295.7	2160.5	2003.3	1940.4	1877.6	1834.3
37.5°	2044.2	1865.5	1705.1	1602.3	1539.3	1499.5	1478.2
40°	1767.5	1606.4	1474.4	1391.1	1343.1	1298.3	1292.1
42.5°	1546.9	1397.1	1297.7	1231.4	1185.3	1166.3	1152.5
45°	1266.9	1162.4	1095.6	1048.4	1017.8	1006.0	990.3
47.5°	1072.3	998.4	948.3	916.2	893.1	884.3	883.1
50°	963.5	902.2	865.3	840.1	822.1	818.9	806.4
52.5°	881.8	828.7	799.9	777.9	764.9	756.1	752.3
55°	765.5	730.1	704.2	691.6	681.4	672.7	672.7
57.5°	669.8	640.2	623.1	612.4	609.2	603.1	599.2
60°	610.7	585.5	572.2	562.7	556.4	557.2	550.1
62.5°	552.8	536.5	523.7	514.3	506.8	506.9	507.4
65°	470.8	458.2	448.8	445.6	440.9	435.4	437.0
67.5°	398.9	387.1	379.8	374.4	372.8	369.9	374.4
70°	347.4	338.7	333.2	328.5	326.9	327.7	331.7
72.5°	300.2	294.1	290.5	288.3	284.8	285.0	287.6
75°	235.8	231.1	227.9	225.6	224.8	224.8	224.8
77.5°	173.2	172.1	170.7	167.2	167.4	168.3	168.5
80°	136.8	134.4	133.6	132.0	129.7	128.1	132.0
82.5°	102.2	99.8	99.0	98.7	95.1	94.8	98.1
85°	55.0	52.7	53.4	52.7	52.7	51.9	51.9
87.5°	23.4	23.0	22.4	23.1	22.6	22.0	23.3
90°	19.8	20.5	20.9	21.3	21.6	21.9	22.3
92.5°	30.1	30.6	30.8	30.6	30.4	30.2	30.0
95°	56.9	57.6	57.9	57.9	57.9	57.9	57.9
97.5°	88.2	89.0	89.3	89.3	89.2	89.1	89.1
100°	110.6	111.1	111.5	111.8	112.2	112.5	112.8
102.5°	136.7	137.2	137.4	137.4	137.3	137.2	137.2
105°	175.2	175.2	175.3	175.7	176.0	176.3	176.7
107.5°	217.9	218.4	218.6	218.4	218.2	218.0	217.8
110°	246.2	246.8	247.0	246.7	246.3	246.0	245.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	274.5	275.3	275.6	275.6	275.5	275.4	275.4
115°	316.7	316.9	316.9	316.7	316.5	316.4	316.2
117.5°	359.7	359.7	359.5	359.0	358.5	358.1	357.6
120°	388.4	388.3	388.0	387.7	387.4	387.0	386.7
122.5°	417.3	416.9	416.5	416.0	415.5	415.1	414.6
125°	460.4	459.8	459.1	458.5	457.8	457.1	456.5
127.5°	503.0	502.1	501.2	500.5	499.7	499.0	498.2
130°	531.7	531.0	530.1	529.0	527.8	526.7	525.5
132.5°	559.2	558.4	557.6	556.7	555.8	554.9	554.0
135°	600.7	600.1	599.6	599.2	598.9	598.6	598.2
137.5°	641.1	640.5	639.8	639.2	638.5	637.9	637.3
140°	668.3	668.1	667.4	666.3	665.1	664.0	662.8
142.5°	693.2	693.0	692.5	691.6	690.7	689.8	688.9
145°	729.9	729.7	729.3	728.6	728.0	727.3	726.7
147.5°	764.7	764.7	764.2	763.2	762.2	761.2	760.2
150°	786.0	786.0	785.5	784.5	783.6	782.6	781.6
152.5°	805.8	806.1	805.8	804.9	804.1	803.2	802.4
155°	834.8	835.4	835.2	834.0	832.9	831.7	830.6
157.5°	859.4	860.1	859.9	859.0	858.1	857.2	856.2
160°	874.6	875.4	875.5	874.9	874.2	873.5	872.9
162.5°	888.9	889.7	889.6	888.5	887.5	886.4	885.3
165°	907.0	908.0	907.9	906.8	905.6	904.5	903.3
167.5°	921.7	922.7	922.7	921.7	920.6	919.6	918.6
170°	929.8	930.9	930.9	929.8	928.6	927.5	926.3
172.5°	935.9	936.9	936.9	935.7	934.6	933.4	932.3
175°	942.6	943.6	943.6	942.4	941.2	940.1	938.9
177.5°	945.5	946.3	946.2	945.3	944.3	943.4	942.5
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9

(END OF REPORT)