

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: P332064-830

Luminaire Tested: **S123DIP-S1165D805U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332064-830  
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: S123DIP-S1165D805U830-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 805 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7216.6 lumens  
Efficiency: N/A  
Efficacy: 118.9 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

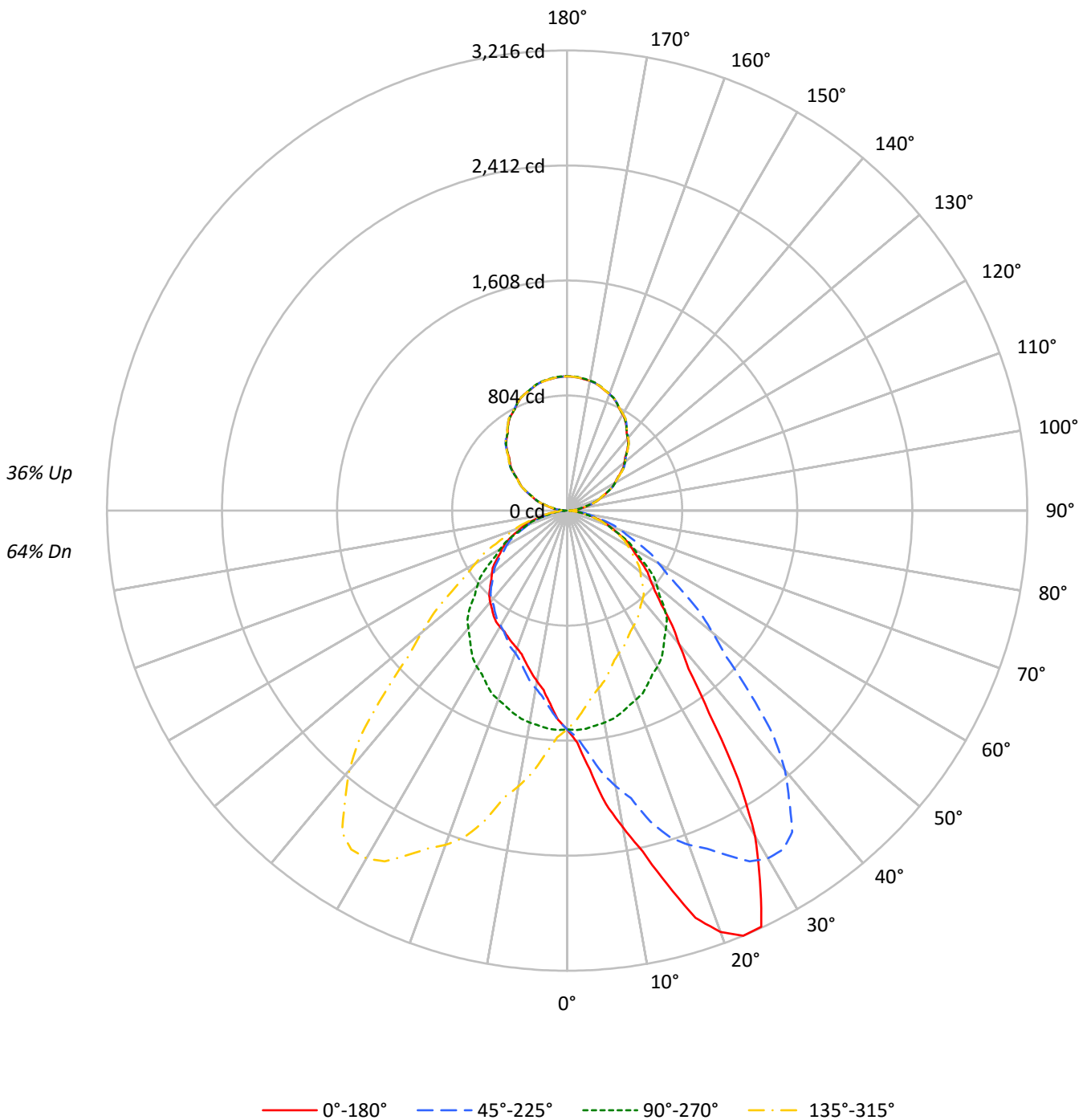
Input Watts (W): 60.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	110	110	110	110	104	104	104	104	91	91	91	80	80	80	69	69	69	64																												
1	101	97	93	90	95	91	88	85	81	78	76	71	69	67	62	60	59	55																												
2	93	85	79	74	87	80	75	70	71	67	63	62	59	57	55	52	50	46																												
3	85	75	68	62	79	71	64	59	63	58	54	55	52	48	49	46	43	40																												
4	78	67	59	53	73	63	56	50	56	50	46	50	45	42	44	40	37	34																												
5	71	60	51	45	67	56	49	44	50	44	40	45	40	36	39	36	33	30																												
6	66	54	45	40	62	51	43	38	45	39	35	40	36	32	36	32	29	26																												
7	61	49	40	35	57	46	39	34	41	35	31	37	32	28	33	29	26	23																												
8	57	44	36	31	53	42	35	30	38	32	28	34	29	25	30	26	23	21																												
9	53	40	33	28	50	38	31	27	35	29	25	31	26	23	28	24	21	19																												
10	49	37	30	25	46	35	29	24	32	26	22	29	24	21	26	22	19	17																												

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

	0°	90°	180°	270°
0°	16457	16457	16457	16457
5°	19626	16528	14647	16528
10°	24565	16444	13230	16444
15°	30130	16312	12316	16312
20°	35892	16105	11726	16105
25°	38112	15853	11595	15853
30°	32666	15669	11656	15669
35°	22718	15408	11779	15408
40°	17113	15104	11741	15104
45°	14209	14647	11592	14647
50°	12728	13720	11488	13720
55°	11898	12720	11344	12720
60°	11162	11672	11227	11672
65°	10491	10641	10868	10641
70°	9838	9467	10351	9467
75°	8813	8289	9491	8289
80°	7711	6794	8176	6794
85°	6039	4940	5496	4940



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.6	2.1
10°-20°	482.9	6.7
20°-30°	810.5	11.2
30°-40°	917.8	12.7
40°-50°	823.0	11.4
50°-60°	664.2	9.2
60°-70°	462.8	6.4
70°-80°	243.3	3.4
80°-90°	62.3	0.9
90°-100°	61.1	0.8
100°-110°	182.9	2.5
110°-120°	311.1	4.3
120°-130°	409.2	5.7
130°-140°	460.0	6.4
140°-150°	452.1	6.3
150°-160°	380.6	5.3
160°-170°	253.4	3.5
170°-180°	88.7	1.2
0°-30°	1444.1	20.0
0°-40°	2361.9	32.7
0°-60°	3849.1	53.3
0°-90°	4617.4	64.0
90°-120°	555.1	7.7
90°-150°	1876.4	26.0
90°-180°	2599.0	36.0
0°-180°	7216.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1529	1529	1529	1529	1529	
5°	1816	1530	1356	1530	1816	188
15°	2704	1464	1105	1464	2704	781
25°	3209	1335	976	1335	3209	1407
35°	1729	1173	896	1173	1729	1123
45°	933	962	762	962	933	739
55°	634	678	604	678	634	569
65°	412	418	427	418	412	410
75°	212	199	228	199	212	227
85°	49	40	44	40	49	58
90°	22	1	22	1	22	13
95°	58	44	58	44	58	59
105°	175	166	175	166	175	186
115°	314	313	314	313	314	311
125°	453	458	453	458	453	405
135°	594	595	594	595	594	457
145°	721	721	721	721	721	450
155°	825	826	825	826	825	380
165°	897	900	897	900	897	253
175°	932	936	932	936	932	89
180°	938	938	938	938	938	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1622.6	1621.4	1618.4	1620.8	1616.1	1609.5	1608.9	1603.0	1585.8	1584.6	1579.9
5°	1816.4	1810.4	1809.7	1808.9	1798.6	1784.5	1757.8	1755.6	1720.0	1702.2	1680.8
7.5°	2067.3	2070.4	2059.6	2050.1	2018.5	1997.5	1969.0	1932.4	1888.7	1844.4	1814.9
10°	2247.5	2271.9	2241.6	2220.8	2201.6	2165.2	2123.1	2070.4	2017.8	1956.3	1909.7
12.5°	2440.7	2452.7	2446.6	2427.0	2397.1	2341.8	2267.0	2209.1	2160.7	2058.3	2016.9
15°	2703.8	2749.0	2720.1	2653.4	2654.9	2602.3	2504.5	2397.1	2340.1	2250.4	2128.3
17.5°	2984.1	2989.7	2977.4	2921.9	2884.8	2812.5	2722.3	2619.3	2503.8	2395.4	2265.7
20°	3133.4	3129.0	3103.0	3074.2	3010.5	2954.2	2855.6	2740.8	2592.7	2486.1	2344.5
22.5°	3216.4	3209.0	3196.7	3172.5	3119.5	3059.0	2970.6	2845.2	2704.1	2557.1	2393.7
25°	3209.0	3218.6	3220.1	3213.4	3194.9	3158.6	3089.0	2989.0	2848.3	2659.4	2489.0
27.5°	2918.6	2932.2	2971.8	3006.9	3046.2	3086.2	3080.8	3031.2	2927.1	2763.9	2555.6
30°	2628.2	2598.6	2671.9	2764.6	2827.5	2938.6	3000.9	3004.5	2946.0	2806.0	2603.0
32.5°	2225.2	2257.9	2290.3	2404.2	2541.8	2666.6	2790.5	2890.2	2901.6	2808.4	2630.9
35°	1728.9	1769.7	1828.9	1888.2	2036.4	2163.8	2381.5	2571.2	2722.3	2742.3	2633.4
37.5°	1393.3	1413.3	1450.9	1510.2	1607.1	1758.3	1926.7	2166.4	2385.4	2548.3	2555.3
40°	1217.9	1223.7	1265.9	1311.2	1389.7	1514.1	1665.9	1877.8	2140.0	2367.5	2462.3
42.5°	1086.3	1099.3	1117.2	1160.6	1223.1	1316.8	1458.0	1633.0	1873.4	2135.1	2320.6
45°	933.4	948.2	959.3	988.2	1032.6	1095.6	1194.1	1354.2	1537.1	1807.4	2057.1
47.5°	832.4	833.5	841.8	863.6	893.8	941.0	1010.7	1113.5	1281.5	1500.8	1757.1
50°	760.1	771.8	774.9	791.8	815.6	850.4	908.1	995.6	1133.4	1326.0	1561.5
52.5°	709.1	712.7	721.0	733.2	753.9	781.1	831.1	899.6	1007.8	1171.9	1388.5
55°	634.0	634.0	642.2	651.9	663.7	688.2	721.5	771.8	854.1	981.5	1160.7
57.5°	564.8	568.4	574.2	577.2	587.3	603.4	631.3	669.5	730.8	828.9	971.5
60°	518.5	525.2	524.4	530.4	539.3	551.9	575.6	606.7	661.5	740.0	860.1
62.5°	478.2	477.8	477.7	484.7	493.6	505.7	521.0	548.0	594.6	664.2	766.4
65°	411.9	410.4	415.6	420.0	423.0	431.9	443.7	467.4	498.5	550.4	629.6
67.5°	352.9	348.6	351.4	352.9	358.0	364.9	376.0	390.7	415.4	457.0	516.8
70°	312.6	308.9	308.1	309.6	314.1	319.2	327.4	341.5	364.5	397.8	441.5
72.5°	271.1	268.6	268.4	271.7	273.8	277.2	283.0	295.9	314.1	339.1	379.8
75°	211.9	211.9	211.9	212.6	214.8	217.8	222.3	228.8	243.0	260.7	288.1
77.5°	158.8	158.6	157.8	157.6	160.9	162.2	163.2	169.5	177.3	189.4	209.3
80°	124.4	120.7	122.2	124.4	125.9	126.7	128.9	130.4	137.0	143.7	157.8
82.5°	92.5	89.4	89.6	93.0	93.3	94.1	96.3	98.4	100.9	107.0	114.5
85°	48.9	48.9	49.7	49.7	50.3	49.7	51.8	52.6	52.6	56.3	60.7
87.5°	22.2	20.9	21.5	22.0	21.3	21.9	22.3	22.8	23.2	23.7	23.8
90°	22.1	21.8	21.5	21.1	20.8	20.3	19.6	19.0	18.4	17.7	15.6
92.5°	29.8	30.0	30.2	30.3	30.5	30.3	29.9	29.3	28.8	28.3	27.1
95°	57.5	57.5	57.5	57.5	57.5	57.1	56.5	55.8	55.2	54.6	53.3
97.5°	88.4	88.5	88.6	88.6	88.7	88.3	87.6	86.8	86.1	85.3	84.4
100°	112.0	111.7	111.3	111.0	110.7	110.3	109.8	109.3	108.9	108.3	107.5
102.5°	136.2	136.3	136.3	136.4	136.5	136.2	135.7	135.3	134.8	134.3	133.2
105°	175.4	175.0	174.7	174.4	174.1	173.9	173.9	173.9	173.9	173.9	172.5
107.5°	216.2	216.4	216.6	216.8	217.0	216.9	216.3	215.7	215.3	214.7	214.1
110°	243.9	244.2	244.6	244.9	245.2	245.1	244.4	243.7	243.1	242.4	242.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	273.4	273.4	273.5	273.6	273.6	273.3	272.5	271.7	271.0	270.1	270.1
115°	314.0	314.1	314.2	314.4	314.6	314.6	314.4	314.2	314.1	314.0	314.2
117.5°	355.1	355.5	356.0	356.5	356.8	357.1	357.1	357.2	357.2	357.2	357.7
120°	383.9	384.3	384.6	384.9	385.2	385.5	385.7	385.8	386.0	386.2	387.0
122.5°	411.6	412.1	412.6	413.0	413.5	414.0	414.3	414.8	415.2	415.7	416.0
125°	453.2	453.8	454.5	455.2	455.8	456.5	457.1	457.8	458.5	459.1	459.4
127.5°	494.6	495.4	496.2	496.9	497.7	498.5	499.4	500.3	501.2	502.1	502.5
130°	521.7	522.9	524.1	525.2	526.3	527.3	527.9	528.6	529.1	529.8	530.4
132.5°	550.1	550.9	551.8	552.7	553.6	554.4	555.2	556.0	556.8	557.5	557.9
135°	594.0	594.3	594.7	594.9	595.3	595.8	596.4	597.1	597.8	598.4	598.5
137.5°	632.7	633.4	634.0	634.6	635.2	635.8	636.6	637.3	637.9	638.6	638.2
140°	658.1	659.2	660.3	661.5	662.7	663.3	663.5	663.6	663.8	663.9	663.8
142.5°	684.0	684.9	685.8	686.6	687.6	688.1	688.2	688.4	688.5	688.7	688.4
145°	721.4	722.1	722.7	723.4	724.1	724.4	724.6	724.8	725.0	725.1	724.6
147.5°	754.8	755.7	756.7	757.7	758.7	759.2	759.2	759.2	759.2	759.2	758.7
150°	776.0	776.9	778.0	778.9	780.0	780.4	780.4	780.4	780.4	780.4	780.0
152.5°	796.6	797.5	798.3	799.2	800.0	800.3	800.0	799.7	799.6	799.3	799.1
155°	824.6	825.8	826.9	828.0	829.2	829.4	828.8	828.1	827.5	826.8	826.7
157.5°	850.1	851.0	852.0	852.9	853.8	853.8	853.2	852.5	851.9	851.1	851.0
160°	866.6	867.2	867.9	868.6	869.2	869.1	868.4	867.5	866.7	865.9	865.9
162.5°	879.0	880.1	881.1	882.1	883.2	883.4	882.5	881.7	880.8	880.1	879.9
165°	896.8	898.0	899.1	900.3	901.4	901.5	900.5	899.6	898.5	897.6	897.6
167.5°	912.0	913.0	914.1	915.0	916.1	916.1	915.0	914.1	913.0	912.0	911.9
170°	919.6	920.9	922.0	923.1	924.3	924.3	923.1	922.0	920.9	919.6	919.6
172.5°	925.6	926.7	927.8	929.0	930.2	930.2	929.3	928.2	927.2	926.1	926.1
175°	932.2	933.3	934.5	935.7	936.8	936.9	935.9	934.9	934.0	932.9	932.9
177.5°	935.8	936.7	937.5	938.5	939.4	939.4	938.7	937.9	937.1	936.3	936.3
180°	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1576.3	1571.6	1566.9	1558.6	1551.4	1541.3	1538.4	1534.8	1524.2	1514.8	1507.6
5°	1672.6	1654.8	1628.9	1605.2	1586.0	1560.1	1545.2	1529.7	1507.4	1487.4	1471.1
7.5°	1773.4	1738.4	1698.1	1654.5	1614.0	1574.9	1543.3	1515.1	1484.0	1454.5	1431.6
10°	1853.4	1803.0	1746.7	1686.0	1634.1	1583.8	1541.5	1504.5	1464.5	1429.6	1400.8
12.5°	1944.7	1870.0	1792.3	1718.5	1657.3	1587.3	1536.2	1489.1	1443.8	1401.8	1369.4
15°	2052.7	1957.8	1866.0	1764.5	1671.1	1583.8	1523.1	1463.8	1411.2	1368.2	1326.7
17.5°	2151.1	2043.6	1922.6	1799.1	1686.6	1582.9	1497.8	1430.9	1365.1	1312.5	1271.1
20°	2206.8	2084.5	1947.5	1819.3	1694.9	1579.3	1486.0	1406.0	1334.8	1279.3	1232.7
22.5°	2254.8	2111.8	1970.0	1833.0	1694.3	1569.8	1464.1	1381.7	1304.7	1250.3	1200.6
25°	2304.5	2133.4	1991.2	1830.4	1675.7	1546.7	1428.2	1334.8	1257.8	1194.1	1143.0
27.5°	2347.2	2131.9	1963.1	1790.3	1646.2	1517.1	1390.5	1290.4	1208.6	1139.4	1087.6
30°	2375.6	2134.9	1934.1	1763.0	1617.9	1484.5	1361.5	1260.7	1174.9	1104.5	1055.6
32.5°	2393.4	2133.1	1907.4	1725.1	1572.8	1454.8	1330.1	1225.8	1137.6	1068.4	1021.2
35°	2403.8	2120.1	1861.5	1646.7	1500.1	1385.3	1280.8	1172.6	1080.1	1015.6	962.2
37.5°	2383.0	2092.6	1808.2	1571.1	1410.6	1297.5	1209.7	1117.5	1028.9	958.0	912.0
40°	2350.4	2074.9	1766.7	1517.9	1349.0	1240.0	1165.3	1074.9	987.4	920.0	877.0
42.5°	2288.2	2038.7	1721.1	1458.6	1285.0	1176.0	1107.1	1031.6	949.0	885.6	842.7
45°	2136.4	1960.0	1652.7	1369.7	1190.4	1077.8	1017.1	962.2	887.4	826.0	788.9
47.5°	1925.7	1841.7	1553.7	1275.9	1091.7	983.4	920.3	876.2	821.5	771.8	736.3
50°	1779.3	1744.5	1486.7	1211.9	1026.0	920.0	859.3	819.3	780.0	730.4	697.8
52.5°	1610.4	1631.9	1408.5	1145.5	959.0	854.9	797.7	765.9	730.3	689.5	661.1
55°	1372.6	1450.4	1273.4	1034.1	859.3	760.1	706.0	677.8	657.0	626.7	602.3
57.5°	1150.0	1249.0	1127.3	919.3	761.4	675.7	623.9	593.2	579.9	564.0	544.8
60°	1017.9	1115.6	1023.0	842.3	695.6	614.1	568.2	542.2	528.9	517.8	501.5
62.5°	899.8	998.8	921.1	764.0	630.9	555.4	515.4	490.1	479.8	473.9	460.1
65°	737.8	823.0	771.1	642.2	538.6	471.8	435.5	417.8	408.1	406.0	397.1
67.5°	600.5	665.3	627.5	532.7	451.1	393.5	362.7	347.6	340.2	339.4	332.7
70°	510.4	571.1	542.2	456.3	386.0	340.7	314.1	300.8	296.3	295.6	291.9
72.5°	440.5	482.9	459.9	388.1	333.8	292.8	273.1	259.3	254.2	255.2	252.8
75°	325.9	357.8	344.5	294.8	251.1	224.4	208.1	199.3	194.8	197.1	194.1
77.5°	234.5	254.7	242.7	208.3	181.3	162.1	150.1	144.6	140.6	140.4	139.1
80°	177.0	188.9	182.2	161.5	139.3	123.0	113.3	109.6	107.4	106.7	105.9
82.5°	126.1	136.2	128.3	114.0	99.0	89.2	83.7	78.8	77.2	77.7	76.9
85°	63.7	67.4	64.5	55.5	49.7	45.1	42.2	40.0	38.5	39.3	37.8
87.5°	24.6	24.8	22.6	19.8	18.3	16.2	15.9	14.3	13.5	13.9	13.6
90°	13.4	11.3	9.1	7.3	5.7	4.1	2.4	0.8	2.4	4.1	5.7
92.5°	25.9	24.7	23.5	22.2	21.2	20.1	18.9	17.8	18.9	20.1	21.2
95°	51.9	50.6	49.3	48.1	46.9	45.8	44.6	43.5	44.6	45.8	46.9
97.5°	83.4	82.5	81.5	80.7	79.7	78.9	78.0	77.2	78.0	78.9	79.7
100°	106.7	105.8	105.1	104.2	103.2	102.2	101.2	100.2	101.2	102.2	103.2
102.5°	132.1	131.0	130.0	129.1	128.6	127.9	127.3	126.8	127.3	127.9	128.6
105°	171.0	169.5	168.1	167.1	166.8	166.5	166.2	165.8	166.2	166.5	166.8
107.5°	213.6	213.0	212.4	212.0	211.8	211.6	211.4	211.2	211.4	211.6	211.8
110°	241.8	241.5	241.1	240.8	240.4	240.2	239.8	239.5	239.8	240.2	240.4





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	270.0	269.9	269.8	269.8	269.6	269.4	269.2	269.0	269.2	269.4	269.6
115°	314.6	314.9	315.3	315.2	314.6	314.1	313.7	313.2	313.7	314.1	314.6
117.5°	358.1	358.5	358.9	359.0	358.6	358.4	358.1	357.7	358.1	358.4	358.6
120°	387.8	388.6	389.5	389.4	388.3	387.4	386.3	385.4	386.3	387.4	388.3
122.5°	416.5	416.9	417.4	417.2	416.4	415.8	415.0	414.3	415.0	415.8	416.4
125°	459.8	460.1	460.4	460.3	459.9	459.3	458.8	458.4	458.8	459.3	459.9
127.5°	502.8	503.2	503.6	503.2	502.2	501.1	500.1	499.1	500.1	501.1	502.2
130°	530.8	531.3	531.8	531.4	530.1	528.8	527.4	526.1	527.4	528.8	530.1
132.5°	558.3	558.6	559.0	558.6	557.2	555.9	554.6	553.3	554.6	555.9	557.2
135°	598.7	598.9	599.1	598.6	597.7	596.6	595.7	594.7	595.7	596.6	597.7
137.5°	637.7	637.3	636.9	636.3	635.5	634.6	633.9	633.0	633.9	634.6	635.5
140°	663.6	663.5	663.3	662.8	662.0	661.2	660.3	659.5	660.3	661.2	662.0
142.5°	688.2	687.9	687.6	687.0	686.2	685.3	684.6	683.7	684.6	685.3	686.2
145°	724.2	723.7	723.1	722.7	722.5	722.1	721.8	721.4	721.8	722.1	722.5
147.5°	758.3	757.8	757.3	756.9	756.2	755.6	755.1	754.5	755.1	755.6	756.2
150°	779.8	779.4	779.1	778.7	778.4	778.1	777.8	777.4	777.8	778.1	778.4
152.5°	798.9	798.7	798.5	798.1	797.7	797.2	796.7	796.4	796.7	797.2	797.7
155°	826.5	826.3	826.1	826.0	826.0	826.0	826.0	826.0	826.0	826.0	826.0
157.5°	850.9	850.7	850.6	850.6	850.8	851.0	851.2	851.4	851.2	851.0	850.8
160°	865.9	865.9	865.9	866.0	866.4	866.7	867.0	867.3	867.0	866.7	866.4
162.5°	879.8	879.7	879.5	879.7	880.1	880.6	881.1	881.5	881.1	880.6	880.1
165°	897.6	897.6	897.6	897.8	898.3	898.8	899.3	899.8	899.3	898.8	898.3
167.5°	911.7	911.6	911.5	911.7	912.4	913.0	913.7	914.4	913.7	913.0	912.4
170°	919.6	919.6	919.6	920.0	920.7	921.3	922.0	922.7	922.0	921.3	920.7
172.5°	926.1	926.1	926.1	926.5	927.2	927.8	928.5	929.1	928.5	927.8	927.2
175°	932.9	932.9	932.9	933.3	934.0	934.6	935.2	935.9	935.2	934.6	934.0
177.5°	936.3	936.3	936.3	936.6	937.1	937.6	938.2	938.7	938.2	937.6	937.1
180°	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1



TEST NUMBER: P332064-830

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1503.4	1499.3	1493.4	1484.5	1477.3	1466.1	1466.1	1467.9	1467.9	1467.4	1466.1
5°	1457.8	1446.7	1433.4	1417.9	1401.6	1385.3	1382.2	1376.3	1371.9	1368.9	1365.3
7.5°	1409.7	1390.0	1370.6	1348.8	1328.9	1312.5	1301.1	1291.6	1285.5	1279.0	1274.2
10°	1377.1	1352.6	1329.6	1306.7	1281.5	1261.5	1249.0	1240.0	1233.4	1227.5	1224.5
12.5°	1338.6	1310.6	1285.3	1263.5	1235.9	1215.3	1203.3	1199.1	1191.3	1178.8	1172.3
15°	1282.2	1256.3	1226.0	1192.6	1179.3	1154.1	1140.0	1133.4	1128.9	1119.3	1116.3
17.5°	1234.1	1200.1	1166.1	1141.2	1116.4	1096.0	1088.2	1079.9	1073.9	1066.1	1063.8
20°	1195.6	1165.3	1134.1	1107.5	1081.5	1059.3	1052.6	1046.7	1040.8	1037.1	1034.1
22.5°	1156.5	1126.1	1100.3	1075.4	1047.7	1033.2	1026.0	1019.5	1015.3	1012.8	1009.8
25°	1101.5	1074.9	1045.9	1023.7	1001.5	991.8	987.4	983.7	980.8	977.0	976.3
27.5°	1052.3	1023.3	999.8	979.1	963.2	955.2	950.8	949.0	949.7	951.0	951.9
30°	1015.6	988.9	969.7	951.9	937.1	929.6	928.9	928.9	931.9	932.6	934.1
32.5°	981.8	959.9	940.7	923.4	912.2	907.1	909.9	909.9	912.3	914.3	916.9
35°	932.6	913.3	898.5	883.7	874.1	876.3	877.8	879.3	883.0	887.4	890.4
37.5°	885.6	868.9	853.5	842.0	837.5	841.5	845.1	848.2	852.4	855.9	858.8
40°	851.9	839.2	824.4	814.1	815.6	817.8	820.8	824.4	828.2	830.4	833.4
42.5°	820.5	807.3	796.1	787.4	789.5	792.3	794.1	796.1	800.3	804.4	806.1
45°	772.6	762.2	751.9	746.7	748.2	749.7	751.1	753.4	757.1	760.1	760.7
47.5°	718.9	711.6	704.6	699.6	701.9	701.3	703.3	708.0	709.2	711.0	715.1
50°	684.5	677.8	669.7	668.2	668.2	668.2	668.9	674.9	674.9	677.8	680.8
52.5°	646.6	642.2	637.1	634.4	633.2	633.2	636.3	639.3	640.5	644.6	647.6
55°	590.4	586.0	581.5	579.3	577.8	579.3	585.2	586.6	590.4	592.6	594.8
57.5°	531.9	528.5	524.9	523.7	523.4	525.4	528.6	533.0	534.0	540.7	544.1
60°	493.3	488.1	485.2	485.2	483.7	490.4	488.9	496.3	497.8	502.3	507.5
62.5°	453.6	446.7	445.5	445.5	447.6	449.5	451.6	454.9	458.6	464.3	468.3
65°	389.6	386.0	391.2	390.4	388.9	393.3	393.3	397.1	401.5	406.7	414.8
67.5°	329.0	327.2	327.5	327.5	329.8	332.3	334.4	337.6	343.0	348.5	353.8
70°	288.1	290.4	286.7	289.6	291.9	292.6	294.1	298.5	304.4	308.1	314.1
72.5°	248.5	248.3	248.7	250.0	252.1	253.4	255.0	260.0	266.6	269.7	274.4
75°	191.1	190.4	192.6	192.6	196.3	197.7	199.3	201.5	207.5	211.9	215.6
77.5°	139.6	140.4	140.0	142.5	141.5	141.8	146.4	148.6	149.2	158.0	159.9
80°	105.2	106.7	107.4	108.1	108.9	107.4	112.6	114.8	114.8	120.0	123.7
82.5°	75.6	76.4	78.4	79.1	79.3	80.8	81.2	82.8	84.6	86.8	91.7
85°	37.8	40.0	40.7	40.0	40.7	39.3	41.5	42.2	43.0	43.0	43.0
87.5°	13.3	14.2	14.1	15.2	15.0	16.0	16.1	15.1	15.2	17.1	14.8
90°	7.3	9.1	11.3	13.4	15.6	17.7	18.4	19.0	19.6	20.3	20.8
92.5°	22.2	23.5	24.7	25.9	27.1	28.3	28.8	29.3	29.9	30.3	30.5
95°	48.1	49.3	50.6	51.9	53.3	54.6	55.2	55.8	56.5	57.1	57.5
97.5°	80.7	81.5	82.5	83.4	84.4	85.3	86.1	86.8	87.6	88.3	88.7
100°	104.2	105.1	105.8	106.7	107.5	108.3	108.9	109.3	109.8	110.3	110.7
102.5°	129.1	130.0	131.0	132.1	133.2	134.3	134.8	135.3	135.7	136.2	136.5
105°	167.1	168.1	169.5	171.0	172.5	173.9	173.9	173.9	173.9	173.9	174.1
107.5°	212.0	212.4	213.0	213.6	214.1	214.7	215.3	215.7	216.3	216.9	217.0
110°	240.8	241.1	241.5	241.8	242.1	242.4	243.1	243.7	244.4	245.1	245.2



TEST NUMBER: P332064-830

CATALOG NUMBER: S123DIP-S1165D805U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	269.8	269.8	269.9	270.0	270.1	270.1	271.0	271.7	272.5	273.3	273.6
115°	315.2	315.3	314.9	314.6	314.2	314.0	314.1	314.2	314.4	314.6	314.6
117.5°	359.0	358.9	358.5	358.1	357.7	357.2	357.2	357.2	357.1	357.1	356.8
120°	389.4	389.5	388.6	387.8	387.0	386.2	386.0	385.8	385.7	385.5	385.2
122.5°	417.2	417.4	416.9	416.5	416.0	415.7	415.2	414.8	414.3	414.0	413.5
125°	460.3	460.4	460.1	459.8	459.4	459.1	458.5	457.8	457.1	456.5	455.8
127.5°	503.2	503.6	503.2	502.8	502.5	502.1	501.2	500.3	499.4	498.5	497.7
130°	531.4	531.8	531.3	530.8	530.4	529.8	529.1	528.6	527.9	527.3	526.3
132.5°	558.6	559.0	558.6	558.3	557.9	557.5	556.8	556.0	555.2	554.4	553.6
135°	598.6	599.1	598.9	598.7	598.5	598.4	597.8	597.1	596.4	595.8	595.3
137.5°	636.3	636.9	637.3	637.7	638.2	638.6	637.9	637.3	636.6	635.8	635.2
140°	662.8	663.3	663.5	663.6	663.8	663.9	663.8	663.6	663.5	663.3	662.7
142.5°	687.0	687.6	687.9	688.2	688.4	688.7	688.5	688.4	688.2	688.1	687.6
145°	722.7	723.1	723.7	724.2	724.6	725.1	725.0	724.8	724.6	724.4	724.1
147.5°	756.9	757.3	757.8	758.3	758.7	759.2	759.2	759.2	759.2	759.2	758.7
150°	778.7	779.1	779.4	779.8	780.0	780.4	780.4	780.4	780.4	780.4	780.0
152.5°	798.1	798.5	798.7	798.9	799.1	799.3	799.6	799.7	800.0	800.3	800.0
155°	826.0	826.1	826.3	826.5	826.7	826.8	827.5	828.1	828.8	829.4	829.2
157.5°	850.6	850.6	850.7	850.9	851.0	851.1	851.9	852.5	853.2	853.8	853.8
160°	866.0	865.9	865.9	865.9	865.9	865.9	866.7	867.5	868.4	869.1	869.2
162.5°	879.7	879.5	879.7	879.8	879.9	880.1	880.8	881.7	882.5	883.4	883.2
165°	897.8	897.6	897.6	897.6	897.6	897.6	898.5	899.6	900.5	901.5	901.4
167.5°	911.7	911.5	911.6	911.7	911.9	912.0	913.0	914.1	915.0	916.1	916.1
170°	920.0	919.6	919.6	919.6	919.6	919.6	920.9	922.0	923.1	924.3	924.3
172.5°	926.5	926.1	926.1	926.1	926.1	926.1	927.2	928.2	929.3	930.2	930.2
175°	933.3	932.9	932.9	932.9	932.9	932.9	934.0	934.9	935.9	936.9	936.8
177.5°	936.6	936.3	936.3	936.3	936.3	936.3	937.1	937.9	938.7	939.4	939.4
180°	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1



TEST NUMBER: P332064-830

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1462.0	1461.4	1465.6	1462.5	1465.6	1461.4	1462.0	1466.1	1467.4	1467.9	1467.9
5°	1360.7	1363.0	1355.6	1355.6	1355.6	1363.0	1360.7	1365.3	1368.9	1371.9	1376.3
7.5°	1270.7	1267.4	1267.7	1263.8	1267.7	1267.4	1270.7	1274.2	1279.0	1285.5	1291.6
10°	1215.6	1211.2	1209.7	1210.4	1209.7	1211.2	1215.6	1224.5	1227.5	1233.4	1240.0
12.5°	1170.0	1169.0	1159.3	1159.4	1159.3	1169.0	1170.0	1172.3	1178.8	1191.3	1199.1
15°	1116.3	1102.3	1100.8	1105.2	1100.8	1102.3	1116.3	1116.3	1119.3	1128.9	1133.4
17.5°	1062.5	1055.2	1055.6	1053.4	1055.6	1055.2	1062.5	1063.8	1066.1	1073.9	1079.9
20°	1034.1	1029.6	1028.9	1023.7	1028.9	1029.6	1034.1	1034.1	1037.1	1040.8	1046.7
22.5°	1008.0	1006.5	1007.0	1001.3	1007.0	1006.5	1008.0	1009.8	1012.8	1015.3	1019.5
25°	975.6	979.3	976.3	976.3	976.3	979.3	975.6	976.3	977.0	980.8	983.7
27.5°	953.7	953.5	952.1	952.1	952.1	953.5	953.7	951.9	951.0	949.7	949.0
30°	937.1	936.3	937.8	937.8	937.8	936.3	937.1	934.1	932.6	931.9	928.9
32.5°	920.5	921.5	921.8	922.4	921.8	921.5	920.5	916.9	914.3	912.3	909.9
35°	894.8	895.6	897.8	896.4	897.8	895.6	894.8	890.4	887.4	883.0	879.3
37.5°	860.2	863.6	862.8	864.0	862.8	863.6	860.2	858.8	855.9	852.4	848.2
40°	834.1	836.3	835.6	835.6	835.6	836.3	834.1	833.4	830.4	828.2	824.4
42.5°	807.5	809.1	807.1	806.0	807.1	809.1	807.5	806.1	804.4	800.3	796.1
45°	763.7	762.2	764.5	761.5	764.5	762.2	763.7	760.7	760.1	757.1	753.4
47.5°	714.8	716.3	716.9	719.2	716.9	716.3	714.8	715.1	711.0	709.2	708.0
50°	682.2	686.6	686.6	686.0	686.6	686.6	682.2	680.8	677.8	674.9	674.9
52.5°	650.3	652.3	655.3	655.2	655.3	652.3	650.3	647.6	644.6	640.5	639.3
55°	600.8	602.3	603.7	604.5	603.7	602.3	600.8	594.8	592.6	590.4	586.6
57.5°	549.5	548.9	552.4	553.5	552.4	548.9	549.5	544.1	540.7	534.0	533.0
60°	513.3	513.3	519.2	521.5	519.2	513.3	513.3	507.5	502.3	497.8	496.3
62.5°	474.9	477.2	483.1	480.0	483.1	477.2	474.9	468.3	464.3	458.6	454.9
65°	418.5	424.4	423.7	426.7	423.7	424.4	418.5	414.8	406.7	401.5	397.1
67.5°	359.7	363.4	368.7	369.2	368.7	363.4	359.7	353.8	348.5	343.0	337.6
70°	320.0	323.7	326.7	328.9	326.7	323.7	320.0	314.1	308.1	304.4	298.5
72.5°	281.5	283.4	290.5	287.4	290.5	283.4	281.5	274.4	269.7	266.6	260.0
75°	220.7	225.9	230.4	228.2	230.4	225.9	220.7	215.6	211.9	207.5	201.5
77.5°	163.2	168.4	170.5	168.6	170.5	168.4	163.2	159.9	158.0	149.2	148.6
80°	128.9	128.2	132.6	131.9	132.6	128.2	128.9	123.7	120.0	114.8	114.8
82.5°	94.5	93.8	95.9	96.3	95.9	93.8	94.5	91.7	86.8	84.6	82.8
85°	45.9	48.2	45.1	44.5	45.1	48.2	45.9	43.0	43.0	43.0	42.2
87.5°	14.9	15.0	14.4	13.9	14.4	15.0	14.9	14.8	17.1	15.2	15.1
90°	21.1	21.5	21.8	22.1	21.8	21.5	21.1	20.8	20.3	19.6	19.0
92.5°	30.3	30.2	30.0	29.8	30.0	30.2	30.3	30.5	30.3	29.9	29.3
95°	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.1	56.5	55.8
97.5°	88.6	88.6	88.5	88.4	88.5	88.6	88.6	88.7	88.3	87.6	86.8
100°	111.0	111.3	111.7	112.0	111.7	111.3	111.0	110.7	110.3	109.8	109.3
102.5°	136.4	136.3	136.3	136.2	136.3	136.3	136.4	136.5	136.2	135.7	135.3
105°	174.4	174.7	175.0	175.4	175.0	174.7	174.4	174.1	173.9	173.9	173.9
107.5°	216.8	216.6	216.4	216.2	216.4	216.6	216.8	217.0	216.9	216.3	215.7
110°	244.9	244.6	244.2	243.9	244.2	244.6	244.9	245.2	245.1	244.4	243.7



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	273.6	273.5	273.4	273.4	273.4	273.5	273.6	273.6	273.3	272.5	271.7
115°	314.4	314.2	314.1	314.0	314.1	314.2	314.4	314.6	314.6	314.4	314.2
117.5°	356.5	356.0	355.5	355.1	355.5	356.0	356.5	356.8	357.1	357.1	357.2
120°	384.9	384.6	384.3	383.9	384.3	384.6	384.9	385.2	385.5	385.7	385.8
122.5°	413.0	412.6	412.1	411.6	412.1	412.6	413.0	413.5	414.0	414.3	414.8
125°	455.2	454.5	453.8	453.2	453.8	454.5	455.2	455.8	456.5	457.1	457.8
127.5°	496.9	496.2	495.4	494.6	495.4	496.2	496.9	497.7	498.5	499.4	500.3
130°	525.2	524.1	522.9	521.7	522.9	524.1	525.2	526.3	527.3	527.9	528.6
132.5°	552.7	551.8	550.9	550.1	550.9	551.8	552.7	553.6	554.4	555.2	556.0
135°	594.9	594.7	594.3	594.0	594.3	594.7	594.9	595.3	595.8	596.4	597.1
137.5°	634.6	634.0	633.4	632.7	633.4	634.0	634.6	635.2	635.8	636.6	637.3
140°	661.5	660.3	659.2	658.1	659.2	660.3	661.5	662.7	663.3	663.5	663.6
142.5°	686.6	685.8	684.9	684.0	684.9	685.8	686.6	687.6	688.1	688.2	688.4
145°	723.4	722.7	722.1	721.4	722.1	722.7	723.4	724.1	724.4	724.6	724.8
147.5°	757.7	756.7	755.7	754.8	755.7	756.7	757.7	758.7	759.2	759.2	759.2
150°	778.9	778.0	776.9	776.0	776.9	778.0	778.9	780.0	780.4	780.4	780.4
152.5°	799.2	798.3	797.5	796.6	797.5	798.3	799.2	800.0	800.3	800.0	799.7
155°	828.0	826.9	825.8	824.6	825.8	826.9	828.0	829.2	829.4	828.8	828.1
157.5°	852.9	852.0	851.0	850.1	851.0	852.0	852.9	853.8	853.8	853.2	852.5
160°	868.6	867.9	867.2	866.6	867.2	867.9	868.6	869.2	869.1	868.4	867.5
162.5°	882.1	881.1	880.1	879.0	880.1	881.1	882.1	883.2	883.4	882.5	881.7
165°	900.3	899.1	898.0	896.8	898.0	899.1	900.3	901.4	901.5	900.5	899.6
167.5°	915.0	914.1	913.0	912.0	913.0	914.1	915.0	916.1	916.1	915.0	914.1
170°	923.1	922.0	920.9	919.6	920.9	922.0	923.1	924.3	924.3	923.1	922.0
172.5°	929.0	927.8	926.7	925.6	926.7	927.8	929.0	930.2	930.2	929.3	928.2
175°	935.7	934.5	933.3	932.2	933.3	934.5	935.7	936.8	936.9	935.9	934.9
177.5°	938.5	937.5	936.7	935.8	936.7	937.5	938.5	939.4	939.4	938.7	937.9
180°	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1466.1	1466.1	1477.3	1484.5	1493.4	1499.3	1503.4	1507.6	1514.8	1524.2	1534.8
5°	1382.2	1385.3	1401.6	1417.9	1433.4	1446.7	1457.8	1471.1	1487.4	1507.4	1529.7
7.5°	1301.1	1312.5	1328.9	1348.8	1370.6	1390.0	1409.7	1431.6	1454.5	1484.0	1515.1
10°	1249.0	1261.5	1281.5	1306.7	1329.6	1352.6	1377.1	1400.8	1429.6	1464.5	1504.5
12.5°	1203.3	1215.3	1235.9	1263.5	1285.3	1310.6	1338.6	1369.4	1401.8	1443.8	1489.1
15°	1140.0	1154.1	1179.3	1192.6	1226.0	1256.3	1282.2	1326.7	1368.2	1411.2	1463.8
17.5°	1088.2	1096.0	1116.4	1141.2	1166.1	1200.1	1234.1	1271.1	1312.5	1365.1	1430.9
20°	1052.6	1059.3	1081.5	1107.5	1134.1	1165.3	1195.6	1232.7	1279.3	1334.8	1406.0
22.5°	1026.0	1033.2	1047.7	1075.4	1100.3	1126.1	1156.5	1200.6	1250.3	1304.7	1381.7
25°	987.4	991.8	1001.5	1023.7	1045.9	1074.9	1101.5	1143.0	1194.1	1257.8	1334.8
27.5°	950.8	955.2	963.2	979.1	999.8	1023.3	1052.3	1087.6	1139.4	1208.6	1290.4
30°	928.9	929.6	937.1	951.9	969.7	988.9	1015.6	1055.6	1104.5	1174.9	1260.7
32.5°	909.9	907.1	912.2	923.4	940.7	959.9	981.8	1021.2	1068.4	1137.6	1225.8
35°	877.8	876.3	874.1	883.7	898.5	913.3	932.6	962.2	1015.6	1080.1	1172.6
37.5°	845.1	841.5	837.5	842.0	853.5	868.9	885.6	912.0	958.0	1028.9	1117.5
40°	820.8	817.8	815.6	814.1	824.4	839.2	851.9	877.0	920.0	987.4	1074.9
42.5°	794.1	792.3	789.5	787.4	796.1	807.3	820.5	842.7	885.6	949.0	1031.6
45°	751.1	749.7	748.2	746.7	751.9	762.2	772.6	788.9	826.0	887.4	962.2
47.5°	703.3	701.3	701.9	699.6	704.6	711.6	718.9	736.3	771.8	821.5	876.2
50°	668.9	668.2	668.2	668.2	669.7	677.8	684.5	697.8	730.4	780.0	819.3
52.5°	636.3	633.2	633.2	634.4	637.1	642.2	646.6	661.1	689.5	730.3	765.9
55°	585.2	579.3	577.8	579.3	581.5	586.0	590.4	602.3	626.7	657.0	677.8
57.5°	528.6	525.4	523.4	523.7	524.9	528.5	531.9	544.8	564.0	579.9	593.2
60°	488.9	490.4	483.7	485.2	485.2	488.1	493.3	501.5	517.8	528.9	542.2
62.5°	451.6	449.5	447.6	445.5	445.5	446.7	453.6	460.1	473.9	479.8	490.1
65°	393.3	393.3	388.9	390.4	391.2	386.0	389.6	397.1	406.0	408.1	417.8
67.5°	334.4	332.3	329.8	327.5	327.5	327.2	329.0	332.7	339.4	340.2	347.6
70°	294.1	292.6	291.9	289.6	286.7	290.4	288.1	291.9	295.6	296.3	300.8
72.5°	255.0	253.4	252.1	250.0	248.7	248.3	248.5	252.8	255.2	254.2	259.3
75°	199.3	197.7	196.3	192.6	192.6	190.4	191.1	194.1	197.1	194.8	199.3
77.5°	146.4	141.8	141.5	142.5	140.0	140.4	139.6	139.1	140.4	140.6	144.6
80°	112.6	107.4	108.9	108.1	107.4	106.7	105.2	105.9	106.7	107.4	109.6
82.5°	81.2	80.8	79.3	79.1	78.4	76.4	75.6	76.9	77.7	77.2	78.8
85°	41.5	39.3	40.7	40.0	40.7	40.0	37.8	37.8	39.3	38.5	40.0
87.5°	16.1	16.0	15.0	15.2	14.1	14.2	13.3	13.6	13.9	13.5	14.3
90°	18.4	17.7	15.6	13.4	11.3	9.1	7.3	5.7	4.1	2.4	0.8
92.5°	28.8	28.3	27.1	25.9	24.7	23.5	22.2	21.2	20.1	18.9	17.8
95°	55.2	54.6	53.3	51.9	50.6	49.3	48.1	46.9	45.8	44.6	43.5
97.5°	86.1	85.3	84.4	83.4	82.5	81.5	80.7	79.7	78.9	78.0	77.2
100°	108.9	108.3	107.5	106.7	105.8	105.1	104.2	103.2	102.2	101.2	100.2
102.5°	134.8	134.3	133.2	132.1	131.0	130.0	129.1	128.6	127.9	127.3	126.8
105°	173.9	173.9	172.5	171.0	169.5	168.1	167.1	166.8	166.5	166.2	165.8
107.5°	215.3	214.7	214.1	213.6	213.0	212.4	212.0	211.8	211.6	211.4	211.2
110°	243.1	242.4	242.1	241.8	241.5	241.1	240.8	240.4	240.2	239.8	239.5



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	271.0	270.1	270.1	270.0	269.9	269.8	269.8	269.6	269.4	269.2	269.0
115°	314.1	314.0	314.2	314.6	314.9	315.3	315.2	314.6	314.1	313.7	313.2
117.5°	357.2	357.2	357.7	358.1	358.5	358.9	359.0	358.6	358.4	358.1	357.7
120°	386.0	386.2	387.0	387.8	388.6	389.5	389.4	388.3	387.4	386.3	385.4
122.5°	415.2	415.7	416.0	416.5	416.9	417.4	417.2	416.4	415.8	415.0	414.3
125°	458.5	459.1	459.4	459.8	460.1	460.4	460.3	459.9	459.3	458.8	458.4
127.5°	501.2	502.1	502.5	502.8	503.2	503.6	503.2	502.2	501.1	500.1	499.1
130°	529.1	529.8	530.4	530.8	531.3	531.8	531.4	530.1	528.8	527.4	526.1
132.5°	556.8	557.5	557.9	558.3	558.6	559.0	558.6	557.2	555.9	554.6	553.3
135°	597.8	598.4	598.5	598.7	598.9	599.1	598.6	597.7	596.6	595.7	594.7
137.5°	637.9	638.6	638.2	637.7	637.3	636.9	636.3	635.5	634.6	633.9	633.0
140°	663.8	663.9	663.8	663.6	663.5	663.3	662.8	662.0	661.2	660.3	659.5
142.5°	688.5	688.7	688.4	688.2	687.9	687.6	687.0	686.2	685.3	684.6	683.7
145°	725.0	725.1	724.6	724.2	723.7	723.1	722.7	722.5	722.1	721.8	721.4
147.5°	759.2	759.2	758.7	758.3	757.8	757.3	756.9	756.2	755.6	755.1	754.5
150°	780.4	780.4	780.0	779.8	779.4	779.1	778.7	778.4	778.1	777.8	777.4
152.5°	799.6	799.3	799.1	798.9	798.7	798.5	798.1	797.7	797.2	796.7	796.4
155°	827.5	826.8	826.7	826.5	826.3	826.1	826.0	826.0	826.0	826.0	826.0
157.5°	851.9	851.1	851.0	850.9	850.7	850.6	850.6	850.8	851.0	851.2	851.4
160°	866.7	865.9	865.9	865.9	865.9	865.9	866.0	866.4	866.7	867.0	867.3
162.5°	880.8	880.1	879.9	879.8	879.7	879.5	879.7	880.1	880.6	881.1	881.5
165°	898.5	897.6	897.6	897.6	897.6	897.6	897.8	898.3	898.8	899.3	899.8
167.5°	913.0	912.0	911.9	911.7	911.6	911.5	911.7	912.4	913.0	913.7	914.4
170°	920.9	919.6	919.6	919.6	919.6	919.6	920.0	920.7	921.3	922.0	922.7
172.5°	927.2	926.1	926.1	926.1	926.1	926.1	926.5	927.2	927.8	928.5	929.1
175°	934.0	932.9	932.9	932.9	932.9	932.9	933.3	934.0	934.6	935.2	935.9
177.5°	937.1	936.3	936.3	936.3	936.3	936.3	936.6	937.1	937.6	938.2	938.7
180°	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1538.4	1541.3	1551.4	1558.6	1566.9	1571.6	1576.3	1579.9	1584.6	1585.8	1603.0
5°	1545.2	1560.1	1586.0	1605.2	1628.9	1654.8	1672.6	1680.8	1702.2	1720.0	1755.6
7.5°	1543.3	1574.9	1614.0	1654.5	1698.1	1738.4	1773.4	1814.9	1844.4	1888.7	1932.4
10°	1541.5	1583.8	1634.1	1686.0	1746.7	1803.0	1853.4	1909.7	1956.3	2017.8	2070.4
12.5°	1536.2	1587.3	1657.3	1718.5	1792.3	1870.0	1944.7	2016.9	2058.3	2160.7	2209.1
15°	1523.1	1583.8	1671.1	1764.5	1866.0	1957.8	2052.7	2128.3	2250.4	2340.1	2397.1
17.5°	1497.8	1582.9	1686.6	1799.1	1922.6	2043.6	2151.1	2265.7	2395.4	2503.8	2619.3
20°	1486.0	1579.3	1694.9	1819.3	1947.5	2084.5	2206.8	2344.5	2486.1	2592.7	2740.8
22.5°	1464.1	1569.8	1694.3	1833.0	1970.0	2111.8	2254.8	2393.7	2557.1	2704.1	2845.2
25°	1428.2	1546.7	1675.7	1830.4	1991.2	2133.4	2304.5	2489.0	2659.4	2848.3	2989.0
27.5°	1390.5	1517.1	1646.2	1790.3	1963.1	2131.9	2347.2	2555.6	2763.9	2927.1	3031.2
30°	1361.5	1484.5	1617.9	1763.0	1934.1	2134.9	2375.6	2603.0	2806.0	2946.0	3004.5
32.5°	1330.1	1454.8	1572.8	1725.1	1907.4	2133.1	2393.4	2630.9	2808.4	2901.6	2890.2
35°	1280.8	1385.3	1500.1	1646.7	1861.5	2120.1	2403.8	2633.4	2742.3	2722.3	2571.2
37.5°	1209.7	1297.5	1410.6	1571.1	1808.2	2092.6	2383.0	2555.3	2548.3	2385.4	2166.4
40°	1165.3	1240.0	1349.0	1517.9	1766.7	2074.9	2350.4	2462.3	2367.5	2140.0	1877.8
42.5°	1107.1	1176.0	1285.0	1458.6	1721.1	2038.7	2288.2	2320.6	2135.1	1873.4	1633.0
45°	1017.1	1077.8	1190.4	1369.7	1652.7	1960.0	2136.4	2057.1	1807.4	1537.1	1354.2
47.5°	920.3	983.4	1091.7	1275.9	1553.7	1841.7	1925.7	1757.1	1500.8	1281.5	1113.5
50°	859.3	920.0	1026.0	1211.9	1486.7	1744.5	1779.3	1561.5	1326.0	1133.4	995.6
52.5°	797.7	854.9	959.0	1145.5	1408.5	1631.9	1610.4	1388.5	1171.9	1007.8	899.6
55°	706.0	760.1	859.3	1034.1	1273.4	1450.4	1372.6	1160.7	981.5	854.1	771.8
57.5°	623.9	675.7	761.4	919.3	1127.3	1249.0	1150.0	971.5	828.9	730.8	669.5
60°	568.2	614.1	695.6	842.3	1023.0	1115.6	1017.9	860.1	740.0	661.5	606.7
62.5°	515.4	555.4	630.9	764.0	921.1	998.8	899.8	766.4	664.2	594.6	548.0
65°	435.5	471.8	538.6	642.2	771.1	823.0	737.8	629.6	550.4	498.5	467.4
67.5°	362.7	393.5	451.1	532.7	627.5	665.3	600.5	516.8	457.0	415.4	390.7
70°	314.1	340.7	386.0	456.3	542.2	571.1	510.4	441.5	397.8	364.5	341.5
72.5°	273.1	292.8	333.8	388.1	459.9	482.9	440.5	379.8	339.1	314.1	295.9
75°	208.1	224.4	251.1	294.8	344.5	357.8	325.9	288.1	260.7	243.0	228.8
77.5°	150.1	162.1	181.3	208.3	242.7	254.7	234.5	209.3	189.4	177.3	169.5
80°	113.3	123.0	139.3	161.5	182.2	188.9	177.0	157.8	143.7	137.0	130.4
82.5°	83.7	89.2	99.0	114.0	128.3	136.2	126.1	114.5	107.0	100.9	98.4
85°	42.2	45.1	49.7	55.5	64.5	67.4	63.7	60.7	56.3	52.6	52.6
87.5°	15.9	16.2	18.3	19.8	22.6	24.8	24.6	23.8	23.7	23.2	22.8
90°	2.4	4.1	5.7	7.3	9.1	11.3	13.4	15.6	17.7	18.4	19.0
92.5°	18.9	20.1	21.2	22.2	23.5	24.7	25.9	27.1	28.3	28.8	29.3
95°	44.6	45.8	46.9	48.1	49.3	50.6	51.9	53.3	54.6	55.2	55.8
97.5°	78.0	78.9	79.7	80.7	81.5	82.5	83.4	84.4	85.3	86.1	86.8
100°	101.2	102.2	103.2	104.2	105.1	105.8	106.7	107.5	108.3	108.9	109.3
102.5°	127.3	127.9	128.6	129.1	130.0	131.0	132.1	133.2	134.3	134.8	135.3
105°	166.2	166.5	166.8	167.1	168.1	169.5	171.0	172.5	173.9	173.9	173.9
107.5°	211.4	211.6	211.8	212.0	212.4	213.0	213.6	214.1	214.7	215.3	215.7
110°	239.8	240.2	240.4	240.8	241.1	241.5	241.8	242.1	242.4	243.1	243.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	269.2	269.4	269.6	269.8	269.8	269.9	270.0	270.1	270.1	271.0	271.7
115°	313.7	314.1	314.6	315.2	315.3	314.9	314.6	314.2	314.0	314.1	314.2
117.5°	358.1	358.4	358.6	359.0	358.9	358.5	358.1	357.7	357.2	357.2	357.2
120°	386.3	387.4	388.3	389.4	389.5	388.6	387.8	387.0	386.2	386.0	385.8
122.5°	415.0	415.8	416.4	417.2	417.4	416.9	416.5	416.0	415.7	415.2	414.8
125°	458.8	459.3	459.9	460.3	460.4	460.1	459.8	459.4	459.1	458.5	457.8
127.5°	500.1	501.1	502.2	503.2	503.6	503.2	502.8	502.5	502.1	501.2	500.3
130°	527.4	528.8	530.1	531.4	531.8	531.3	530.8	530.4	529.8	529.1	528.6
132.5°	554.6	555.9	557.2	558.6	559.0	558.6	558.3	557.9	557.5	556.8	556.0
135°	595.7	596.6	597.7	598.6	599.1	598.9	598.7	598.5	598.4	597.8	597.1
137.5°	633.9	634.6	635.5	636.3	636.9	637.3	637.7	638.2	638.6	637.9	637.3
140°	660.3	661.2	662.0	662.8	663.3	663.5	663.6	663.8	663.9	663.8	663.6
142.5°	684.6	685.3	686.2	687.0	687.6	687.9	688.2	688.4	688.7	688.5	688.4
145°	721.8	722.1	722.5	722.7	723.1	723.7	724.2	724.6	725.1	725.0	724.8
147.5°	755.1	755.6	756.2	756.9	757.3	757.8	758.3	758.7	759.2	759.2	759.2
150°	777.8	778.1	778.4	778.7	779.1	779.4	779.8	780.0	780.4	780.4	780.4
152.5°	796.7	797.2	797.7	798.1	798.5	798.7	798.9	799.1	799.3	799.6	799.7
155°	826.0	826.0	826.0	826.0	826.1	826.3	826.5	826.7	826.8	827.5	828.1
157.5°	851.2	851.0	850.8	850.6	850.6	850.7	850.9	851.0	851.1	851.9	852.5
160°	867.0	866.7	866.4	866.0	865.9	865.9	865.9	865.9	865.9	866.7	867.5
162.5°	881.1	880.6	880.1	879.7	879.5	879.7	879.8	879.9	880.1	880.8	881.7
165°	899.3	898.8	898.3	897.8	897.6	897.6	897.6	897.6	897.6	898.5	899.6
167.5°	913.7	913.0	912.4	911.7	911.5	911.6	911.7	911.9	912.0	913.0	914.1
170°	922.0	921.3	920.7	920.0	919.6	919.6	919.6	919.6	919.6	920.9	922.0
172.5°	928.5	927.8	927.2	926.5	926.1	926.1	926.1	926.1	926.1	927.2	928.2
175°	935.2	934.6	934.0	933.3	932.9	932.9	932.9	932.9	932.9	934.0	934.9
177.5°	938.2	937.6	937.1	936.6	936.3	936.3	936.3	936.3	936.3	937.1	937.9
180°	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1608.9	1609.5	1616.1	1620.8	1618.4	1621.4	1622.6
5°	1757.8	1784.5	1798.6	1808.9	1809.7	1810.4	1816.4
7.5°	1969.0	1997.5	2018.5	2050.1	2059.6	2070.4	2067.3
10°	2123.1	2165.2	2201.6	2220.8	2241.6	2271.9	2247.5
12.5°	2267.0	2341.8	2397.1	2427.0	2446.6	2452.7	2440.7
15°	2504.5	2602.3	2654.9	2653.4	2720.1	2749.0	2703.8
17.5°	2722.3	2812.5	2884.8	2921.9	2977.4	2989.7	2984.1
20°	2855.6	2954.2	3010.5	3074.2	3103.0	3129.0	3133.4
22.5°	2970.6	3059.0	3119.5	3172.5	3196.7	3209.0	3216.4
25°	3089.0	3158.6	3194.9	3213.4	3220.1	3218.6	3209.0
27.5°	3080.8	3086.2	3046.2	3006.9	2971.8	2932.2	2918.6
30°	3000.9	2938.6	2827.5	2764.6	2671.9	2598.6	2628.2
32.5°	2790.5	2666.6	2541.8	2404.2	2290.3	2257.9	2225.2
35°	2381.5	2163.8	2036.4	1888.2	1828.9	1769.7	1728.9
37.5°	1926.7	1758.3	1607.1	1510.2	1450.9	1413.3	1393.3
40°	1665.9	1514.1	1389.7	1311.2	1265.9	1223.7	1217.9
42.5°	1458.0	1316.8	1223.1	1160.6	1117.2	1099.3	1086.3
45°	1194.1	1095.6	1032.6	988.2	959.3	948.2	933.4
47.5°	1010.7	941.0	893.8	863.6	841.8	833.5	832.4
50°	908.1	850.4	815.6	791.8	774.9	771.8	760.1
52.5°	831.1	781.1	753.9	733.2	721.0	712.7	709.1
55°	721.5	688.2	663.7	651.9	642.2	634.0	634.0
57.5°	631.3	603.4	587.3	577.2	574.2	568.4	564.8
60°	575.6	551.9	539.3	530.4	524.4	525.2	518.5
62.5°	521.0	505.7	493.6	484.7	477.7	477.8	478.2
65°	443.7	431.9	423.0	420.0	415.6	410.4	411.9
67.5°	376.0	364.9	358.0	352.9	351.4	348.6	352.9
70°	327.4	319.2	314.1	309.6	308.1	308.9	312.6
72.5°	283.0	277.2	273.8	271.7	268.4	268.6	271.1
75°	222.3	217.8	214.8	212.6	211.9	211.9	211.9
77.5°	163.2	162.2	160.9	157.6	157.8	158.6	158.8
80°	128.9	126.7	125.9	124.4	122.2	120.7	124.4
82.5°	96.3	94.1	93.3	93.0	89.6	89.4	92.5
85°	51.8	49.7	50.3	49.7	49.7	48.9	48.9
87.5°	22.3	21.9	21.3	22.0	21.5	20.9	22.2
90°	19.6	20.3	20.8	21.1	21.5	21.8	22.1
92.5°	29.9	30.3	30.5	30.3	30.2	30.0	29.8
95°	56.5	57.1	57.5	57.5	57.5	57.5	57.5
97.5°	87.6	88.3	88.7	88.6	88.6	88.5	88.4
100°	109.8	110.3	110.7	111.0	111.3	111.7	112.0
102.5°	135.7	136.2	136.5	136.4	136.3	136.3	136.2
105°	173.9	173.9	174.1	174.4	174.7	175.0	175.4
107.5°	216.3	216.9	217.0	216.8	216.6	216.4	216.2
110°	244.4	245.1	245.2	244.9	244.6	244.2	243.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	272.5	273.3	273.6	273.6	273.5	273.4	273.4
115°	314.4	314.6	314.6	314.4	314.2	314.1	314.0
117.5°	357.1	357.1	356.8	356.5	356.0	355.5	355.1
120°	385.7	385.5	385.2	384.9	384.6	384.3	383.9
122.5°	414.3	414.0	413.5	413.0	412.6	412.1	411.6
125°	457.1	456.5	455.8	455.2	454.5	453.8	453.2
127.5°	499.4	498.5	497.7	496.9	496.2	495.4	494.6
130°	527.9	527.3	526.3	525.2	524.1	522.9	521.7
132.5°	555.2	554.4	553.6	552.7	551.8	550.9	550.1
135°	596.4	595.8	595.3	594.9	594.7	594.3	594.0
137.5°	636.6	635.8	635.2	634.6	634.0	633.4	632.7
140°	663.5	663.3	662.7	661.5	660.3	659.2	658.1
142.5°	688.2	688.1	687.6	686.6	685.8	684.9	684.0
145°	724.6	724.4	724.1	723.4	722.7	722.1	721.4
147.5°	759.2	759.2	758.7	757.7	756.7	755.7	754.8
150°	780.4	780.4	780.0	778.9	778.0	776.9	776.0
152.5°	800.0	800.3	800.0	799.2	798.3	797.5	796.6
155°	828.8	829.4	829.2	828.0	826.9	825.8	824.6
157.5°	853.2	853.8	853.8	852.9	852.0	851.0	850.1
160°	868.4	869.1	869.2	868.6	867.9	867.2	866.6
162.5°	882.5	883.4	883.2	882.1	881.1	880.1	879.0
165°	900.5	901.5	901.4	900.3	899.1	898.0	896.8
167.5°	915.0	916.1	916.1	915.0	914.1	913.0	912.0
170°	923.1	924.3	924.3	923.1	922.0	920.9	919.6
172.5°	929.3	930.2	930.2	929.0	927.8	926.7	925.6
175°	935.9	936.9	936.8	935.7	934.5	933.3	932.2
177.5°	938.7	939.4	939.4	938.5	937.5	936.7	935.8
180°	938.1	938.1	938.1	938.1	938.1	938.1	938.1

(END OF REPORT)