

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: P332342-840

Luminaire Tested: **S123RDIP-S1000D805U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332342-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S1000D805U840-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 805 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7240.8 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

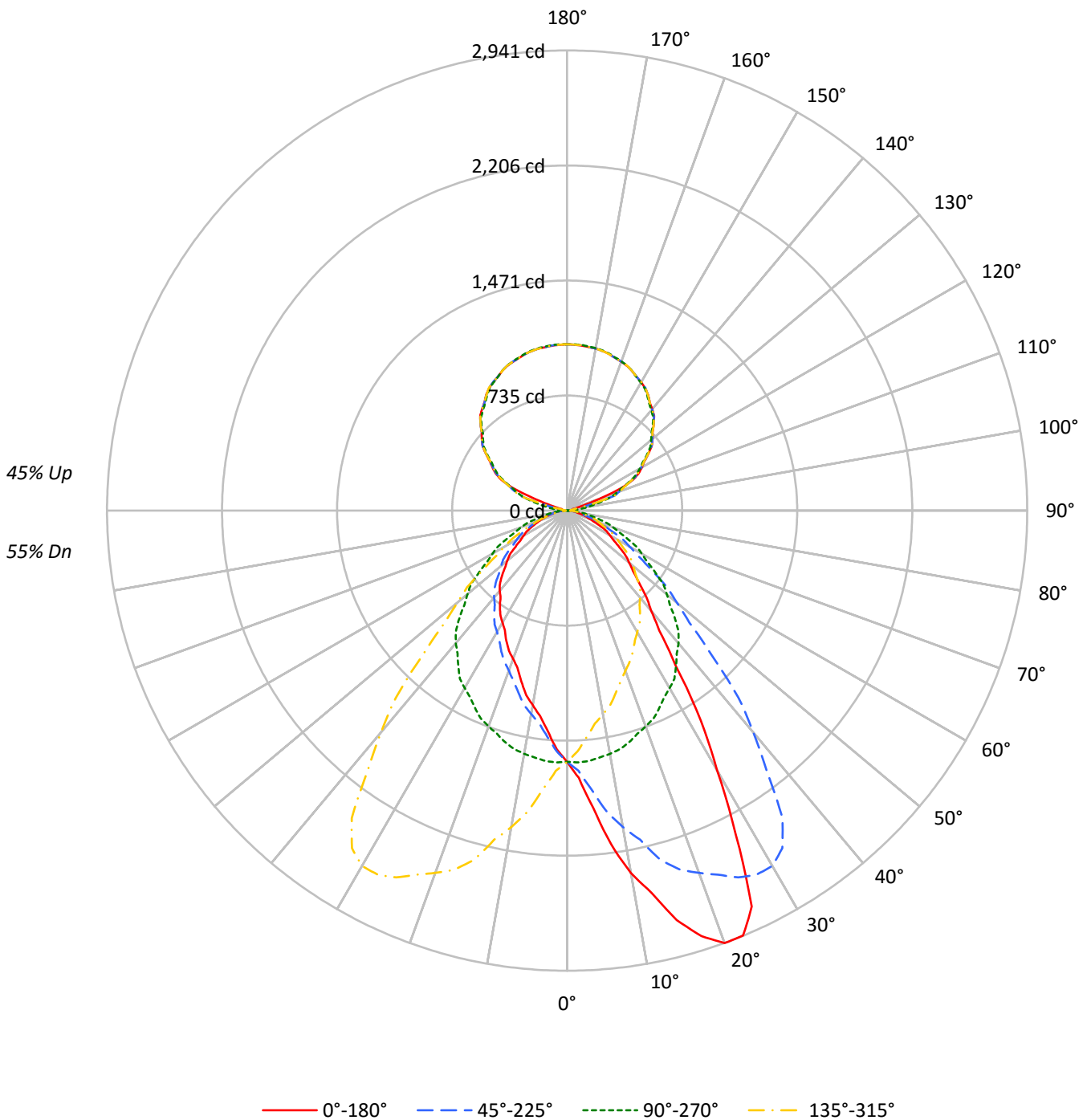
Input Watts (W): 54.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	100	95	92	88	92	89	86	83	77	74	72	65	64	62	55	54	53	48
2	91	84	78	73	85	78	73	69	68	64	61	58	55	53	49	47	45	41
3	84	75	67	62	78	70	63	58	60	56	52	52	48	46	44	42	39	36
4	77	66	59	53	71	62	55	50	54	49	45	47	43	40	40	37	34	31
5	71	59	52	46	66	56	49	44	49	43	39	42	38	35	36	33	30	27
6	65	54	46	40	61	50	43	38	44	39	34	38	34	31	33	30	27	24
7	61	49	41	35	56	46	39	34	40	35	31	35	31	27	30	27	24	22
8	56	44	37	31	52	42	35	30	37	31	27	32	28	25	28	24	22	20
9	53	41	33	28	49	38	32	27	34	28	25	30	25	22	26	22	20	18
10	49	37	30	25	46	35	29	24	31	26	22	28	23	20	24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17280	17280	17280	17280
5°	20599	17354	15282	17354
10°	25719	17254	13806	17254
15°	30190	17079	12590	17079
20°	33693	16814	11557	16814
25°	33155	16537	10922	16537
30°	23832	16281	10268	16281
35°	15912	15948	9843	15948
40°	11724	15548	9405	15548
45°	9834	14845	8977	14845
50°	8678	13924	8378	13924
55°	7610	12872	7557	12872
60°	6777	11866	6923	11866
65°	5952	10781	6441	10781
70°	4674	9819	5882	9819
75°	4117	8576	5373	8576
80°	3583	7283	5281	7283
85°	2878	5866	5595	5866



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.9	2.2
10°-20°	493.2	6.8
20°-30°	774.9	10.7
30°-40°	808.4	11.2
40°-50°	691.8	9.6
50°-60°	527.3	7.3
60°-70°	338.0	4.7
70°-80°	162.6	2.2
80°-90°	46.0	0.6
90°-100°	38.6	0.5
100°-110°	184.1	2.5
110°-120°	442.3	6.1
120°-130°	563.2	7.8
130°-140°	601.8	8.3
140°-150°	562.7	7.8
150°-160°	453.9	6.3
160°-170°	293.0	4.0
170°-180°	101.0	1.4
0°-30°	1426.0	19.7
0°-40°	2234.4	30.9
0°-60°	3453.6	47.7
0°-90°	4000.2	55.2
90°-120°	665.1	9.2
90°-150°	2392.8	33.0
90°-180°	3241.0	44.8
0°-180°	7240.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1605	1605	1605	1605	1605	
5°	1906	1606	1414	1606	1906	197
15°	2709	1533	1130	1533	2709	768
25°	2792	1392	920	1392	2792	1200
35°	1211	1214	749	1214	1211	794
45°	646	975	590	975	646	508
55°	406	686	403	686	406	367
65°	234	423	253	423	234	230
75°	99	206	129	206	99	106
85°	23	48	45	48	23	27
90°	24	1	24	1	24	11
95°	30	48	30	48	30	25
105°	35	235	35	235	35	79
115°	464	441	464	441	464	429
125°	635	622	635	622	635	567
135°	782	774	782	774	782	603
145°	902	894	902	894	902	563
155°	983	984	983	984	983	453
165°	1036	1038	1036	1038	1036	292
175°	1059	1063	1059	1063	1059	101
180°	1063	1063	1063	1063	1063	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1709.9	1712.0	1705.0	1703.8	1695.6	1693.3	1693.3	1681.8	1674.7	1665.4	1659.8
5°	1906.4	1917.4	1911.9	1899.6	1879.0	1874.1	1861.1	1840.5	1817.1	1788.2	1774.4
7.5°	2151.9	2166.9	2161.1	2142.0	2120.4	2102.9	2066.2	2031.9	1984.0	1941.9	1905.9
10°	2353.1	2337.3	2324.9	2306.4	2286.4	2254.1	2215.6	2162.7	2101.6	2053.5	1999.9
12.5°	2503.8	2501.1	2485.5	2466.4	2438.2	2407.5	2360.3	2295.8	2224.7	2155.3	2093.9
15°	2709.2	2713.2	2702.9	2683.0	2643.1	2588.9	2517.4	2490.6	2388.8	2313.3	2237.7
17.5°	2851.3	2850.4	2849.0	2821.5	2780.8	2742.1	2675.8	2605.4	2513.3	2406.7	2304.9
20°	2941.4	2934.6	2935.9	2905.0	2874.8	2830.0	2765.5	2663.1	2587.5	2464.5	2359.3
22.5°	2939.2	2937.8	2943.0	2932.4	2910.5	2876.3	2825.4	2739.0	2642.4	2518.3	2400.0
25°	2791.6	2786.1	2818.4	2827.3	2862.4	2868.5	2853.5	2806.0	2714.6	2586.8	2440.4
27.5°	2336.3	2333.3	2393.3	2468.3	2563.4	2637.4	2708.9	2743.4	2714.6	2623.1	2476.4
30°	1917.4	1982.1	2012.3	2120.8	2241.8	2386.1	2512.5	2632.8	2662.4	2622.5	2502.2
32.5°	1592.0	1648.3	1673.5	1766.8	1879.5	2048.5	2238.3	2408.5	2528.8	2559.3	2486.9
35°	1210.9	1211.6	1269.3	1310.6	1415.0	1588.9	1773.1	2001.2	2228.1	2399.8	2417.7
37.5°	966.2	969.7	1004.6	1045.7	1124.1	1216.0	1378.2	1567.9	1829.9	2093.7	2248.3
40°	834.4	840.5	866.7	907.2	963.5	1032.9	1159.4	1338.1	1556.6	1850.1	2089.9
42.5°	749.6	759.7	773.2	804.4	839.3	904.2	1006.5	1144.6	1343.3	1620.8	1897.5
45°	646.0	651.5	661.9	676.2	707.8	753.3	821.9	914.7	1079.6	1303.0	1579.9
47.5°	569.9	566.9	577.8	589.6	610.6	641.5	687.5	763.3	880.9	1060.2	1295.1
50°	518.2	517.5	525.0	534.0	553.9	576.6	614.4	671.5	764.9	913.3	1128.4
52.5°	469.8	472.4	477.8	488.9	503.3	521.6	555.5	596.6	676.9	805.1	984.4
55°	405.5	407.6	415.1	421.3	431.6	450.1	471.4	505.8	560.8	650.2	797.9
57.5°	351.0	350.1	357.4	358.9	370.5	385.7	402.1	428.9	468.7	535.1	634.6
60°	314.8	312.7	318.9	323.7	329.9	342.2	356.0	382.1	413.7	462.5	547.8
62.5°	281.8	280.8	285.4	290.1	295.3	306.5	318.1	338.1	363.1	404.2	471.9
65°	233.7	235.7	237.8	239.8	242.6	249.4	260.4	274.2	291.3	320.2	369.0
67.5°	183.6	185.7	186.4	190.7	196.5	200.9	207.5	219.7	231.8	256.1	283.9
70°	148.5	147.7	148.5	150.5	158.0	165.6	174.6	183.5	191.1	208.2	231.6
72.5°	127.5	126.3	128.2	128.6	132.2	134.3	140.0	148.3	158.0	169.8	186.5
75°	99.0	99.0	99.0	99.0	101.7	103.1	105.1	107.2	110.7	116.1	128.6
77.5°	73.1	73.2	74.2	74.9	75.4	76.2	77.6	79.6	80.8	83.7	89.1
80°	57.8	58.4	57.8	58.4	58.4	59.8	60.5	62.5	63.2	66.7	68.8
82.5°	43.4	43.0	43.4	44.1	44.1	45.5	45.6	47.2	47.3	49.1	51.1
85°	23.3	22.0	23.3	22.7	24.0	22.7	23.3	24.7	24.7	25.4	28.2
87.5°	10.2	11.3	10.1	10.6	10.5	10.9	10.8	10.7	11.6	10.9	11.0
90°	23.7	23.3	23.0	22.6	22.3	21.7	21.0	20.4	19.7	19.0	16.7
92.5°	26.3	26.0	25.8	25.5	25.3	24.7	23.5	22.4	21.3	20.2	18.5
95°	30.0	30.0	30.0	30.0	30.0	29.4	28.2	27.0	25.8	24.4	22.5
97.5°	32.5	32.3	32.2	32.0	31.8	31.0	29.6	28.3	26.9	25.4	38.1
100°	33.1	33.0	32.8	32.6	32.4	31.7	30.3	28.9	27.5	26.1	53.4
102.5°	33.8	33.4	33.1	32.8	32.5	34.5	38.9	43.2	47.6	51.9	81.8
105°	34.7	34.4	34.0	33.7	33.3	48.7	79.8	110.8	141.9	172.9	188.6
107.5°	109.1	132.5	155.9	179.4	202.7	225.8	248.6	271.4	294.2	316.9	314.4
110°	217.1	242.2	267.3	292.4	317.5	333.0	338.7	344.5	350.3	356.1	354.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	372.5	377.8	383.0	388.4	393.6	396.3	396.2	396.1	396.0	395.9	393.9
115°	464.2	463.5	462.8	462.1	461.4	460.2	458.5	456.7	454.9	453.2	451.6
117.5°	515.7	515.5	515.4	515.3	515.1	514.3	513.0	511.6	510.2	508.8	508.0
120°	551.1	551.1	551.1	551.1	551.1	550.4	549.0	547.5	546.1	544.7	544.2
122.5°	585.8	585.7	585.5	585.4	585.2	584.7	583.7	582.7	581.8	580.8	580.1
125°	634.8	634.4	634.1	633.7	633.4	633.0	632.7	632.3	632.0	631.6	630.9
127.5°	681.9	682.2	682.6	682.9	683.2	683.1	682.6	682.0	681.5	680.9	680.0
130°	712.2	712.5	712.9	713.2	713.6	713.4	712.7	712.0	711.2	710.5	709.8
132.5°	739.9	740.4	740.9	741.4	741.8	741.7	741.0	740.3	739.7	739.0	738.4
135°	782.4	782.9	783.5	784.0	784.5	784.5	784.0	783.5	782.9	782.4	781.7
137.5°	822.3	822.7	823.0	823.4	823.7	823.5	822.6	821.8	821.0	820.1	819.7
140°	846.4	846.7	847.1	847.4	847.8	847.6	846.9	846.2	845.5	844.8	844.2
142.5°	868.5	869.0	869.4	869.9	870.4	870.4	869.8	869.3	868.7	868.2	867.6
145°	902.4	902.4	902.4	902.4	902.4	902.2	901.9	901.5	901.2	900.8	900.5
147.5°	927.7	928.5	929.3	930.1	930.9	931.1	930.8	930.4	930.1	929.7	929.4
150°	946.6	947.2	947.7	948.2	948.8	948.8	948.5	948.1	947.8	947.5	947.1
152.5°	961.8	962.6	963.4	964.2	965.0	965.1	964.4	963.8	963.2	962.6	962.4
155°	982.9	984.0	985.0	986.1	987.1	987.2	986.3	985.5	984.6	983.7	983.5
157.5°	1000.8	1002.2	1003.5	1004.9	1006.2	1006.4	1005.3	1004.3	1003.3	1002.2	1002.4
160°	1012.2	1013.4	1014.6	1015.8	1017.0	1017.1	1016.1	1015.0	1014.0	1012.9	1013.1
162.5°	1022.9	1024.0	1025.0	1026.1	1027.2	1027.1	1026.0	1024.8	1023.6	1022.4	1022.6
165°	1035.8	1037.0	1038.2	1039.6	1040.8	1040.7	1039.3	1037.8	1036.4	1035.0	1035.2
167.5°	1045.1	1046.5	1047.9	1049.4	1050.8	1050.8	1049.4	1047.9	1046.5	1045.1	1045.1
170°	1050.9	1052.3	1053.6	1055.0	1056.4	1056.4	1055.0	1053.6	1052.3	1050.9	1050.9
172.5°	1054.0	1055.5	1057.1	1058.6	1060.2	1060.3	1058.8	1057.4	1056.0	1054.6	1054.5
175°	1058.7	1060.2	1061.6	1063.0	1064.3	1064.4	1063.2	1062.0	1060.8	1059.6	1059.3
177.5°	1060.2	1061.6	1063.0	1064.4	1065.8	1065.9	1064.8	1063.7	1062.6	1061.4	1061.3
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1657.6	1656.0	1648.3	1639.5	1627.9	1620.2	1614.2	1610.9	1601.0	1588.9	1580.6
5°	1760.0	1739.4	1717.5	1690.6	1665.9	1640.4	1624.7	1606.1	1583.4	1558.0	1540.1
7.5°	1869.8	1829.3	1785.7	1740.8	1696.4	1656.6	1621.3	1591.2	1555.1	1518.6	1493.1
10°	1953.9	1894.7	1833.6	1771.0	1713.9	1660.4	1619.1	1578.6	1535.3	1493.4	1461.8
12.5°	2030.2	1952.5	1882.0	1805.1	1732.1	1668.1	1608.7	1561.0	1508.9	1464.2	1428.3
15°	2127.0	2047.3	1962.1	1845.2	1748.4	1667.3	1595.1	1532.6	1469.4	1414.3	1379.3
17.5°	2217.5	2097.5	1983.0	1885.5	1759.6	1658.3	1570.2	1495.4	1426.0	1367.8	1324.6
20°	2254.8	2138.7	2014.3	1890.0	1766.3	1652.8	1550.4	1467.9	1395.8	1329.8	1290.0
22.5°	2277.3	2145.9	2014.9	1881.2	1749.7	1631.9	1530.7	1440.0	1361.7	1299.0	1249.8
25°	2303.6	2147.0	2002.7	1870.7	1736.7	1608.8	1488.5	1392.4	1307.9	1241.1	1188.9
27.5°	2321.0	2136.7	1966.1	1819.4	1683.4	1556.2	1445.9	1343.9	1258.2	1187.7	1131.7
30°	2324.3	2128.4	1938.0	1779.3	1641.1	1524.3	1407.4	1309.9	1219.2	1144.3	1092.1
32.5°	2328.6	2108.1	1900.1	1731.4	1590.0	1474.3	1368.5	1275.3	1182.3	1108.5	1055.2
35°	2310.6	2096.8	1842.5	1648.7	1507.1	1395.1	1299.6	1213.7	1122.3	1050.8	996.5
37.5°	2232.4	2052.1	1782.8	1555.5	1407.4	1303.7	1225.9	1151.0	1067.1	990.1	938.9
40°	2153.8	2008.1	1736.7	1498.8	1344.2	1237.7	1167.6	1106.5	1025.4	953.2	898.3
42.5°	2036.7	1948.2	1692.7	1439.5	1272.7	1170.1	1111.0	1053.7	982.5	909.2	857.6
45°	1821.9	1833.6	1602.7	1344.9	1173.8	1070.8	1015.0	975.2	912.0	851.5	798.6
47.5°	1552.5	1661.7	1496.9	1244.2	1069.4	972.7	924.0	889.3	846.7	787.3	739.0
50°	1376.5	1532.6	1412.3	1176.6	1004.1	907.9	859.7	831.5	794.5	747.7	701.7
52.5°	1214.4	1381.9	1310.0	1101.3	933.1	845.2	798.2	775.0	745.5	701.6	659.8
55°	990.3	1160.0	1143.6	987.5	826.8	747.7	712.0	685.9	665.9	633.0	600.0
57.5°	801.0	962.0	970.5	861.1	733.1	654.9	624.2	604.5	591.5	566.5	536.0
60°	681.8	829.5	858.4	775.9	665.9	597.2	566.9	551.2	540.9	520.9	497.6
62.5°	582.8	708.5	741.2	681.9	601.6	537.2	513.6	498.4	491.4	474.2	453.6
65°	446.1	550.5	582.1	549.1	507.2	455.7	436.4	423.3	417.2	407.6	392.4
67.5°	335.4	411.5	446.2	422.9	407.8	375.3	363.0	356.0	350.5	343.9	331.2
70°	269.4	325.8	361.5	355.3	343.0	325.8	316.8	312.0	306.5	301.0	290.0
72.5°	216.6	255.4	288.9	292.1	282.0	278.5	270.6	268.6	265.3	258.7	252.7
75°	143.6	170.5	193.8	202.8	206.8	210.3	206.8	206.2	205.5	200.0	196.5
77.5°	94.1	108.6	123.3	138.6	145.0	149.7	150.8	153.3	151.5	148.6	146.9
80°	72.2	75.6	85.9	99.0	109.3	113.4	116.1	117.5	116.8	116.1	113.4
82.5°	52.4	55.2	60.1	69.3	78.0	84.8	86.4	86.1	87.7	88.1	85.9
85°	28.2	28.9	30.2	31.6	36.5	44.0	46.0	47.5	48.8	48.8	44.6
87.5°	11.7	10.7	11.3	10.9	12.2	12.4	15.3	17.8	18.7	16.8	17.2
90°	14.3	12.1	9.8	7.8	6.1	4.3	2.5	0.8	2.5	4.3	6.1
92.5°	16.8	15.0	13.3	12.7	13.2	13.7	14.2	14.6	14.2	13.7	13.2
95°	20.6	18.7	16.8	19.4	26.6	33.7	41.0	48.2	41.0	33.7	26.6
97.5°	50.7	63.3	75.9	83.9	87.2	90.4	93.6	96.7	93.6	90.4	87.2
100°	80.8	108.2	135.5	147.4	143.9	140.5	136.9	133.4	136.9	140.5	143.9
102.5°	111.7	141.7	171.6	185.2	182.7	180.2	177.6	175.1	177.6	180.2	182.7
105°	204.5	220.3	236.1	243.0	241.1	239.1	237.2	235.3	237.2	239.1	241.1
107.5°	311.9	309.4	306.9	304.9	303.4	301.8	300.3	298.7	300.3	301.8	303.4
110°	352.2	350.3	348.3	346.7	345.3	343.9	342.4	341.0	342.4	343.9	345.3



TEST NUMBER: P332342-840

CATALOG NUMBER: S123RDIP-S1000D805U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	392.0	390.1	388.1	386.6	385.3	384.1	382.7	381.5	382.7	384.1	385.3
115°	450.0	448.5	446.9	445.6	444.5	443.4	442.4	441.3	442.4	443.4	444.5
117.5°	507.2	506.3	505.5	504.4	503.2	501.9	500.6	499.3	500.6	501.9	503.2
120°	543.7	543.2	542.7	541.6	540.0	538.5	536.8	535.3	536.8	538.5	540.0
122.5°	579.5	578.8	578.0	577.1	575.8	574.5	573.2	571.9	573.2	574.5	575.8
125°	630.2	629.5	628.8	627.7	626.3	624.9	623.5	622.2	623.5	624.9	626.3
127.5°	679.2	678.3	677.5	676.4	675.0	673.6	672.2	670.8	672.2	673.6	675.0
130°	709.1	708.4	707.7	706.7	705.3	703.9	702.5	701.0	702.5	703.9	705.3
132.5°	737.8	737.3	736.7	735.8	734.4	733.0	731.5	730.1	731.5	733.0	734.4
135°	781.0	780.3	779.6	778.7	777.7	776.6	775.6	774.5	775.6	776.6	777.7
137.5°	819.4	819.0	818.6	817.7	816.4	815.1	813.7	812.4	813.7	815.1	816.4
140°	843.7	843.2	842.6	841.9	840.8	839.8	838.7	837.7	838.7	839.8	840.8
142.5°	867.1	866.6	866.1	865.3	864.2	863.1	862.1	861.0	862.1	863.1	864.2
145°	900.1	899.8	899.4	898.7	897.4	896.2	894.9	893.7	894.9	896.2	897.4
147.5°	929.0	928.7	928.4	927.8	927.0	926.1	925.3	924.5	925.3	926.1	927.0
150°	946.7	946.3	946.0	945.5	945.0	944.5	944.0	943.4	944.0	944.5	945.0
152.5°	962.1	961.9	961.7	961.5	961.3	961.0	960.8	960.5	960.8	961.0	961.3
155°	983.4	983.2	983.0	983.1	983.5	983.8	984.2	984.5	984.2	983.8	983.5
157.5°	1002.6	1002.7	1002.9	1003.0	1003.0	1003.1	1003.1	1003.1	1003.1	1003.1	1003.0
160°	1013.3	1013.5	1013.6	1013.8	1014.0	1014.2	1014.3	1014.5	1014.3	1014.2	1014.0
162.5°	1022.8	1022.9	1023.1	1023.4	1023.9	1024.3	1024.8	1025.2	1024.8	1024.3	1023.9
165°	1035.4	1035.6	1035.7	1036.1	1036.6	1037.1	1037.6	1038.2	1037.6	1037.1	1036.6
167.5°	1045.1	1045.1	1045.1	1045.5	1046.2	1046.9	1047.6	1048.3	1047.6	1046.9	1046.2
170°	1050.9	1050.9	1050.9	1051.2	1051.9	1052.6	1053.3	1054.0	1053.3	1052.6	1051.9
172.5°	1054.3	1054.2	1054.1	1054.4	1055.2	1056.1	1056.9	1057.7	1056.9	1056.1	1055.2
175°	1059.1	1058.9	1058.8	1059.1	1060.1	1061.0	1061.8	1062.7	1061.8	1061.0	1060.1
177.5°	1061.2	1061.0	1060.9	1061.2	1061.9	1062.6	1063.3	1063.9	1063.3	1062.6	1061.9
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7



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CATALOG NUMBER: S123RDIP-S1000D805U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1577.9	1570.7	1565.8	1554.8	1547.7	1539.9	1532.3	1537.2	1536.7	1536.1	1536.1
5°	1525.0	1509.1	1494.8	1476.2	1464.5	1450.1	1439.1	1437.7	1440.5	1430.9	1425.3
7.5°	1472.5	1450.9	1430.5	1410.0	1388.3	1370.9	1360.1	1354.9	1348.0	1342.0	1335.8
10°	1435.6	1410.3	1390.3	1364.8	1341.5	1320.9	1307.9	1298.9	1294.0	1289.3	1280.3
12.5°	1397.8	1372.8	1347.5	1318.7	1296.5	1272.5	1262.7	1252.7	1243.5	1238.1	1225.9
15°	1342.2	1309.9	1283.1	1252.8	1228.1	1204.8	1191.0	1171.0	1168.3	1161.4	1149.1
17.5°	1286.6	1251.4	1214.5	1192.1	1164.2	1139.8	1118.9	1112.3	1092.6	1085.2	1074.4
20°	1242.5	1210.2	1182.0	1152.6	1112.0	1089.2	1072.8	1063.9	1048.0	1038.4	1031.6
22.5°	1204.6	1171.7	1139.2	1104.7	1071.3	1045.8	1033.8	1019.9	1011.2	997.7	990.3
25°	1150.4	1114.7	1075.5	1038.4	1014.4	995.1	975.9	963.5	951.2	944.9	931.2
27.5°	1087.5	1050.2	1013.5	985.3	955.8	936.9	919.4	908.4	893.5	883.1	875.6
30°	1052.9	1008.9	977.2	951.8	914.0	896.2	883.1	869.4	858.4	847.4	839.8
32.5°	1012.7	972.6	942.6	911.2	882.1	862.6	845.8	833.6	824.3	813.9	806.3
35°	949.8	916.1	885.1	853.5	832.2	812.3	792.4	782.0	773.2	763.6	756.7
37.5°	892.8	861.4	832.0	802.0	775.6	759.4	743.4	735.5	723.4	716.9	709.9
40°	857.7	826.8	795.2	766.3	738.8	726.4	712.0	700.3	689.3	684.5	676.9
42.5°	819.2	788.3	761.6	730.5	708.0	691.3	677.9	665.1	656.9	649.8	645.6
45°	762.1	734.7	708.5	677.6	656.3	641.9	626.7	615.1	607.5	602.7	595.1
47.5°	706.8	679.2	652.8	625.8	605.2	588.7	573.6	565.4	555.4	549.6	544.4
50°	666.6	641.9	613.7	589.0	568.4	551.9	539.5	529.2	520.3	512.7	509.3
52.5°	629.8	603.4	579.1	556.0	534.2	515.5	504.3	493.4	486.8	478.1	474.0
55°	569.1	543.6	523.0	500.3	479.0	463.2	449.5	439.8	432.9	423.3	417.9
57.5°	512.0	489.2	464.5	444.9	422.9	409.6	398.2	385.2	376.8	369.2	363.9
60°	473.5	447.4	426.1	407.6	388.3	371.1	360.8	350.5	341.5	334.0	329.2
62.5°	433.3	410.6	390.3	370.1	352.5	337.6	325.6	317.0	309.1	304.3	299.5
65°	371.8	354.0	333.4	316.8	300.3	289.3	279.7	272.2	266.6	263.2	259.1
67.5°	315.2	297.8	279.8	263.7	252.7	244.3	237.9	231.5	228.7	224.3	221.6
70°	278.3	260.4	244.7	232.3	221.3	215.1	211.0	206.2	203.4	197.9	195.2
72.5°	238.2	225.3	213.9	203.7	194.9	189.2	184.0	178.1	173.7	167.6	164.9
75°	187.6	175.9	167.0	160.2	154.6	147.0	139.5	133.3	131.3	129.2	128.6
77.5°	139.0	131.6	125.1	119.3	112.4	106.9	105.3	103.9	103.5	102.4	102.4
80°	109.3	102.4	97.6	90.7	86.5	86.5	86.5	85.2	85.9	85.9	85.9
82.5°	81.2	74.9	72.3	69.8	69.0	69.6	69.6	69.8	69.4	70.5	70.0
85°	41.9	42.6	44.0	43.3	44.0	44.0	45.3	44.6	45.3	44.0	45.3
87.5°	17.0	19.0	20.0	21.0	22.0	21.9	22.6	22.7	23.4	23.6	23.7
90°	7.8	9.8	12.1	14.3	16.7	19.0	19.7	20.4	21.0	21.7	22.3
92.5°	12.7	13.3	15.0	16.8	18.5	20.2	21.3	22.4	23.5	24.7	25.3
95°	19.4	16.8	18.7	20.6	22.5	24.4	25.8	27.0	28.2	29.4	30.0
97.5°	83.9	75.9	63.3	50.7	38.1	25.4	26.9	28.3	29.6	31.0	31.8
100°	147.4	135.5	108.2	80.8	53.4	26.1	27.5	28.9	30.3	31.7	32.4
102.5°	185.2	171.6	141.7	111.7	81.8	51.9	47.6	43.2	38.9	34.5	32.5
105°	243.0	236.1	220.3	204.5	188.6	172.9	141.9	110.8	79.8	48.7	33.3
107.5°	304.9	306.9	309.4	311.9	314.4	316.9	294.2	271.4	248.6	225.8	202.7
110°	346.7	348.3	350.3	352.2	354.2	356.1	350.3	344.5	338.7	333.0	317.5



TEST NUMBER: P332342-840

CATALOG NUMBER: S123RDIP-S1000D805U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	386.6	388.1	390.1	392.0	393.9	395.9	396.0	396.1	396.2	396.3	393.6
115°	445.6	446.9	448.5	450.0	451.6	453.2	454.9	456.7	458.5	460.2	461.4
117.5°	504.4	505.5	506.3	507.2	508.0	508.8	510.2	511.6	513.0	514.3	515.1
120°	541.6	542.7	543.2	543.7	544.2	544.7	546.1	547.5	549.0	550.4	551.1
122.5°	577.1	578.0	578.8	579.5	580.1	580.8	581.8	582.7	583.7	584.7	585.2
125°	627.7	628.8	629.5	630.2	630.9	631.6	632.0	632.3	632.7	633.0	633.4
127.5°	676.4	677.5	678.3	679.2	680.0	680.9	681.5	682.0	682.6	683.1	683.2
130°	706.7	707.7	708.4	709.1	709.8	710.5	711.2	712.0	712.7	713.4	713.6
132.5°	735.8	736.7	737.3	737.8	738.4	739.0	739.7	740.3	741.0	741.7	741.8
135°	778.7	779.6	780.3	781.0	781.7	782.4	782.9	783.5	784.0	784.5	784.5
137.5°	817.7	818.6	819.0	819.4	819.7	820.1	821.0	821.8	822.6	823.5	823.7
140°	841.9	842.6	843.2	843.7	844.2	844.8	845.5	846.2	846.9	847.6	847.8
142.5°	865.3	866.1	866.6	867.1	867.6	868.2	868.7	869.3	869.8	870.4	870.4
145°	898.7	899.4	899.8	900.1	900.5	900.8	901.2	901.5	901.9	902.2	902.4
147.5°	927.8	928.4	928.7	929.0	929.4	929.7	930.1	930.4	930.8	931.1	930.9
150°	945.5	946.0	946.3	946.7	947.1	947.5	947.8	948.1	948.5	948.8	948.8
152.5°	961.5	961.7	961.9	962.1	962.4	962.6	963.2	963.8	964.4	965.1	965.0
155°	983.1	983.0	983.2	983.4	983.5	983.7	984.6	985.5	986.3	987.2	987.1
157.5°	1003.0	1002.9	1002.7	1002.6	1002.4	1002.2	1003.3	1004.3	1005.3	1006.4	1006.2
160°	1013.8	1013.6	1013.5	1013.3	1013.1	1012.9	1014.0	1015.0	1016.1	1017.1	1017.0
162.5°	1023.4	1023.1	1022.9	1022.8	1022.6	1022.4	1023.6	1024.8	1026.0	1027.1	1027.2
165°	1036.1	1035.7	1035.6	1035.4	1035.2	1035.0	1036.4	1037.8	1039.3	1040.7	1040.8
167.5°	1045.5	1045.1	1045.1	1045.1	1045.1	1045.1	1046.5	1047.9	1049.4	1050.8	1050.8
170°	1051.2	1050.9	1050.9	1050.9	1050.9	1050.9	1052.3	1053.6	1055.0	1056.4	1056.4
172.5°	1054.4	1054.1	1054.2	1054.3	1054.5	1054.6	1056.0	1057.4	1058.8	1060.3	1060.2
175°	1059.1	1058.8	1058.9	1059.1	1059.3	1059.6	1060.8	1062.0	1063.2	1064.4	1064.3
177.5°	1061.2	1060.9	1061.0	1061.2	1061.3	1061.4	1062.6	1063.7	1064.8	1065.9	1065.8
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7



TEST NUMBER: P332342-840

CATALOG NUMBER: S123RDIP-S1000D805U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1529.5	1528.9	1529.5	1527.3	1529.5	1528.9	1529.5	1536.1	1536.1	1536.7	1537.2
5°	1423.3	1422.6	1420.6	1414.3	1420.6	1422.6	1423.3	1425.3	1430.9	1440.5	1437.7
7.5°	1330.5	1329.6	1323.5	1323.6	1323.5	1329.6	1330.5	1335.8	1342.0	1348.0	1354.9
10°	1275.6	1276.2	1268.0	1263.1	1268.0	1276.2	1275.6	1280.3	1289.3	1294.0	1298.9
12.5°	1222.2	1219.0	1212.4	1207.1	1212.4	1219.0	1222.2	1225.9	1238.1	1243.5	1252.7
15°	1151.9	1145.0	1128.4	1129.8	1128.4	1145.0	1151.9	1149.1	1161.4	1168.3	1171.0
17.5°	1068.9	1063.9	1063.6	1054.0	1063.6	1063.9	1068.9	1074.4	1085.2	1092.6	1112.3
20°	1020.6	1017.1	1018.4	1008.9	1018.4	1017.1	1020.6	1031.6	1038.4	1048.0	1063.9
22.5°	982.6	979.2	973.4	970.4	973.4	979.2	982.6	990.3	997.7	1011.2	1019.9
25°	927.1	921.6	916.1	919.6	916.1	921.6	927.1	931.2	944.9	951.2	963.5
27.5°	871.6	867.5	861.9	861.2	861.9	867.5	871.6	875.6	883.1	893.5	908.4
30°	836.4	832.2	829.5	826.1	829.5	832.2	836.4	839.8	847.4	858.4	869.4
32.5°	800.6	799.8	794.9	794.2	794.9	799.8	800.6	806.3	813.9	824.3	833.6
35°	753.9	749.8	748.4	749.1	748.4	749.8	753.9	756.7	763.6	773.2	782.0
37.5°	709.5	704.0	701.6	699.0	701.6	704.0	709.5	709.9	716.9	723.4	735.5
40°	677.6	672.2	670.8	669.3	670.8	672.2	677.6	676.9	684.5	689.3	700.3
42.5°	641.9	639.6	638.8	636.4	638.8	639.6	641.9	645.6	649.8	656.9	665.1
45°	593.1	592.4	588.2	589.7	588.2	592.4	593.1	595.1	602.7	607.5	615.1
47.5°	541.7	538.7	535.7	537.7	535.7	538.7	541.7	544.4	549.6	555.4	565.4
50°	506.5	505.1	499.0	500.3	499.0	505.1	506.5	509.3	512.7	520.3	529.2
52.5°	471.3	466.1	463.7	462.9	463.7	466.1	471.3	474.0	478.1	486.8	493.4
55°	413.0	406.9	404.1	402.7	404.1	406.9	413.0	417.9	423.3	432.9	439.8
57.5°	355.9	354.2	352.0	353.6	352.0	354.2	355.9	363.9	369.2	376.8	385.2
60°	322.3	322.3	322.3	321.6	322.3	322.3	322.3	329.2	334.0	341.5	350.5
62.5°	296.5	294.8	294.3	295.3	294.3	294.8	296.5	299.5	304.3	309.1	317.0
65°	257.0	256.3	253.6	252.9	253.6	256.3	257.0	259.1	263.2	266.6	272.2
67.5°	219.7	217.3	216.5	215.5	216.5	217.3	219.7	221.6	224.3	228.7	231.5
70°	191.8	190.4	186.2	186.9	186.2	190.4	191.8	195.2	197.9	203.4	206.2
72.5°	161.5	160.2	159.3	158.3	159.3	160.2	161.5	164.9	167.6	173.7	178.1
75°	127.8	127.1	126.4	129.2	126.4	127.1	127.8	128.6	129.2	131.3	133.3
77.5°	102.4	102.4	102.8	101.7	102.8	102.4	102.4	102.4	102.4	103.5	103.9
80°	85.9	85.9	85.2	85.2	85.2	85.9	85.9	85.9	85.9	85.9	85.2
82.5°	68.9	69.4	69.8	68.8	69.8	69.4	68.9	70.0	70.5	69.4	69.8
85°	45.3	44.6	46.0	45.3	46.0	44.6	45.3	45.3	44.0	45.3	44.6
87.5°	24.8	23.8	23.9	24.5	23.9	23.8	24.8	23.7	23.6	23.4	22.7
90°	22.6	23.0	23.3	23.7	23.3	23.0	22.6	22.3	21.7	21.0	20.4
92.5°	25.5	25.8	26.0	26.3	26.0	25.8	25.5	25.3	24.7	23.5	22.4
95°	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	29.4	28.2	27.0
97.5°	32.0	32.2	32.3	32.5	32.3	32.2	32.0	31.8	31.0	29.6	28.3
100°	32.6	32.8	33.0	33.1	33.0	32.8	32.6	32.4	31.7	30.3	28.9
102.5°	32.8	33.1	33.4	33.8	33.4	33.1	32.8	32.5	34.5	38.9	43.2
105°	33.7	34.0	34.4	34.7	34.4	34.0	33.7	33.3	48.7	79.8	110.8
107.5°	179.4	155.9	132.5	109.1	132.5	155.9	179.4	202.7	225.8	248.6	271.4
110°	292.4	267.3	242.2	217.1	242.2	267.3	292.4	317.5	333.0	338.7	344.5



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	388.4	383.0	377.8	372.5	377.8	383.0	388.4	393.6	396.3	396.2	396.1
115°	462.1	462.8	463.5	464.2	463.5	462.8	462.1	461.4	460.2	458.5	456.7
117.5°	515.3	515.4	515.5	515.7	515.5	515.4	515.3	515.1	514.3	513.0	511.6
120°	551.1	551.1	551.1	551.1	551.1	551.1	551.1	551.1	550.4	549.0	547.5
122.5°	585.4	585.5	585.7	585.8	585.7	585.5	585.4	585.2	584.7	583.7	582.7
125°	633.7	634.1	634.4	634.8	634.4	634.1	633.7	633.4	633.0	632.7	632.3
127.5°	682.9	682.6	682.2	681.9	682.2	682.6	682.9	683.2	683.1	682.6	682.0
130°	713.2	712.9	712.5	712.2	712.5	712.9	713.2	713.6	713.4	712.7	712.0
132.5°	741.4	740.9	740.4	739.9	740.4	740.9	741.4	741.8	741.7	741.0	740.3
135°	784.0	783.5	782.9	782.4	782.9	783.5	784.0	784.5	784.5	784.0	783.5
137.5°	823.4	823.0	822.7	822.3	822.7	823.0	823.4	823.7	823.5	822.6	821.8
140°	847.4	847.1	846.7	846.4	846.7	847.1	847.4	847.8	847.6	846.9	846.2
142.5°	869.9	869.4	869.0	868.5	869.0	869.4	869.9	870.4	870.4	869.8	869.3
145°	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.2	901.9	901.5
147.5°	930.1	929.3	928.5	927.7	928.5	929.3	930.1	930.9	931.1	930.8	930.4
150°	948.2	947.7	947.2	946.6	947.2	947.7	948.2	948.8	948.8	948.5	948.1
152.5°	964.2	963.4	962.6	961.8	962.6	963.4	964.2	965.0	965.1	964.4	963.8
155°	986.1	985.0	984.0	982.9	984.0	985.0	986.1	987.1	987.2	986.3	985.5
157.5°	1004.9	1003.5	1002.2	1000.8	1002.2	1003.5	1004.9	1006.2	1006.4	1005.3	1004.3
160°	1015.8	1014.6	1013.4	1012.2	1013.4	1014.6	1015.8	1017.0	1017.1	1016.1	1015.0
162.5°	1026.1	1025.0	1024.0	1022.9	1024.0	1025.0	1026.1	1027.2	1027.1	1026.0	1024.8
165°	1039.6	1038.2	1037.0	1035.8	1037.0	1038.2	1039.6	1040.8	1040.7	1039.3	1037.8
167.5°	1049.4	1047.9	1046.5	1045.1	1046.5	1047.9	1049.4	1050.8	1050.8	1049.4	1047.9
170°	1055.0	1053.6	1052.3	1050.9	1052.3	1053.6	1055.0	1056.4	1056.4	1055.0	1053.6
172.5°	1058.6	1057.1	1055.5	1054.0	1055.5	1057.1	1058.6	1060.2	1060.3	1058.8	1057.4
175°	1063.0	1061.6	1060.2	1058.7	1060.2	1061.6	1063.0	1064.3	1064.4	1063.2	1062.0
177.5°	1064.4	1063.0	1061.6	1060.2	1061.6	1063.0	1064.4	1065.8	1065.9	1064.8	1063.7
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1532.3	1539.9	1547.7	1554.8	1565.8	1570.7	1577.9	1580.6	1588.9	1601.0	1610.9
5°	1439.1	1450.1	1464.5	1476.2	1494.8	1509.1	1525.0	1540.1	1558.0	1583.4	1606.1
7.5°	1360.1	1370.9	1388.3	1410.0	1430.5	1450.9	1472.5	1493.1	1518.6	1555.1	1591.2
10°	1307.9	1320.9	1341.5	1364.8	1390.3	1410.3	1435.6	1461.8	1493.4	1535.3	1578.6
12.5°	1262.7	1272.5	1296.5	1318.7	1347.5	1372.8	1397.8	1428.3	1464.2	1508.9	1561.0
15°	1191.0	1204.8	1228.1	1252.8	1283.1	1309.9	1342.2	1379.3	1414.3	1469.4	1532.6
17.5°	1118.9	1139.8	1164.2	1192.1	1214.5	1251.4	1286.6	1324.6	1367.8	1426.0	1495.4
20°	1072.8	1089.2	1112.0	1152.6	1182.0	1210.2	1242.5	1290.0	1329.8	1395.8	1467.9
22.5°	1033.8	1045.8	1071.3	1104.7	1139.2	1171.7	1204.6	1249.8	1299.0	1361.7	1440.0
25°	975.9	995.1	1014.4	1038.4	1075.5	1114.7	1150.4	1188.9	1241.1	1307.9	1392.4
27.5°	919.4	936.9	955.8	985.3	1013.5	1050.2	1087.5	1131.7	1187.7	1258.2	1343.9
30°	883.1	896.2	914.0	951.8	977.2	1008.9	1052.9	1092.1	1144.3	1219.2	1309.9
32.5°	845.8	862.6	882.1	911.2	942.6	972.6	1012.7	1055.2	1108.5	1182.3	1275.3
35°	792.4	812.3	832.2	853.5	885.1	916.1	949.8	996.5	1050.8	1122.3	1213.7
37.5°	743.4	759.4	775.6	802.0	832.0	861.4	892.8	938.9	990.1	1067.1	1151.0
40°	712.0	726.4	738.8	766.3	795.2	826.8	857.7	898.3	953.2	1025.4	1106.5
42.5°	677.9	691.3	708.0	730.5	761.6	788.3	819.2	857.6	909.2	982.5	1053.7
45°	626.7	641.9	656.3	677.6	708.5	734.7	762.1	798.6	851.5	912.0	975.2
47.5°	573.6	588.7	605.2	625.8	652.8	679.2	706.8	739.0	787.3	846.7	889.3
50°	539.5	551.9	568.4	589.0	613.7	641.9	666.6	701.7	747.7	794.5	831.5
52.5°	504.3	515.5	534.2	556.0	579.1	603.4	629.8	659.8	701.6	745.5	775.0
55°	449.5	463.2	479.0	500.3	523.0	543.6	569.1	600.0	633.0	665.9	685.9
57.5°	398.2	409.6	422.9	444.9	464.5	489.2	512.0	536.0	566.5	591.5	604.5
60°	360.8	371.1	388.3	407.6	426.1	447.4	473.5	497.6	520.9	540.9	551.2
62.5°	325.6	337.6	352.5	370.1	390.3	410.6	433.3	453.6	474.2	491.4	498.4
65°	279.7	289.3	300.3	316.8	333.4	354.0	371.8	392.4	407.6	417.2	423.3
67.5°	237.9	244.3	252.7	263.7	279.8	297.8	315.2	331.2	343.9	350.5	356.0
70°	211.0	215.1	221.3	232.3	244.7	260.4	278.3	290.0	301.0	306.5	312.0
72.5°	184.0	189.2	194.9	203.7	213.9	225.3	238.2	252.7	258.7	265.3	268.6
75°	139.5	147.0	154.6	160.2	167.0	175.9	187.6	196.5	200.0	205.5	206.2
77.5°	105.3	106.9	112.4	119.3	125.1	131.6	139.0	146.9	148.6	151.5	153.3
80°	86.5	86.5	86.5	90.7	97.6	102.4	109.3	113.4	116.1	116.8	117.5
82.5°	69.6	69.6	69.0	69.8	72.3	74.9	81.2	85.9	88.1	87.7	86.1
85°	45.3	44.0	44.0	43.3	44.0	42.6	41.9	44.6	48.8	48.8	47.5
87.5°	22.6	21.9	22.0	21.0	20.0	19.0	17.0	17.2	16.8	18.7	17.8
90°	19.7	19.0	16.7	14.3	12.1	9.8	7.8	6.1	4.3	2.5	0.8
92.5°	21.3	20.2	18.5	16.8	15.0	13.3	12.7	13.2	13.7	14.2	14.6
95°	25.8	24.4	22.5	20.6	18.7	16.8	19.4	26.6	33.7	41.0	48.2
97.5°	26.9	25.4	38.1	50.7	63.3	75.9	83.9	87.2	90.4	93.6	96.7
100°	27.5	26.1	53.4	80.8	108.2	135.5	147.4	143.9	140.5	136.9	133.4
102.5°	47.6	51.9	81.8	111.7	141.7	171.6	185.2	182.7	180.2	177.6	175.1
105°	141.9	172.9	188.6	204.5	220.3	236.1	243.0	241.1	239.1	237.2	235.3
107.5°	294.2	316.9	314.4	311.9	309.4	306.9	304.9	303.4	301.8	300.3	298.7
110°	350.3	356.1	354.2	352.2	350.3	348.3	346.7	345.3	343.9	342.4	341.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	396.0	395.9	393.9	392.0	390.1	388.1	386.6	385.3	384.1	382.7	381.5
115°	454.9	453.2	451.6	450.0	448.5	446.9	445.6	444.5	443.4	442.4	441.3
117.5°	510.2	508.8	508.0	507.2	506.3	505.5	504.4	503.2	501.9	500.6	499.3
120°	546.1	544.7	544.2	543.7	543.2	542.7	541.6	540.0	538.5	536.8	535.3
122.5°	581.8	580.8	580.1	579.5	578.8	578.0	577.1	575.8	574.5	573.2	571.9
125°	632.0	631.6	630.9	630.2	629.5	628.8	627.7	626.3	624.9	623.5	622.2
127.5°	681.5	680.9	680.0	679.2	678.3	677.5	676.4	675.0	673.6	672.2	670.8
130°	711.2	710.5	709.8	709.1	708.4	707.7	706.7	705.3	703.9	702.5	701.0
132.5°	739.7	739.0	738.4	737.8	737.3	736.7	735.8	734.4	733.0	731.5	730.1
135°	782.9	782.4	781.7	781.0	780.3	779.6	778.7	777.7	776.6	775.6	774.5
137.5°	821.0	820.1	819.7	819.4	819.0	818.6	817.7	816.4	815.1	813.7	812.4
140°	845.5	844.8	844.2	843.7	843.2	842.6	841.9	840.8	839.8	838.7	837.7
142.5°	868.7	868.2	867.6	867.1	866.6	866.1	865.3	864.2	863.1	862.1	861.0
145°	901.2	900.8	900.5	900.1	899.8	899.4	898.7	897.4	896.2	894.9	893.7
147.5°	930.1	929.7	929.4	929.0	928.7	928.4	927.8	927.0	926.1	925.3	924.5
150°	947.8	947.5	947.1	946.7	946.3	946.0	945.5	945.0	944.5	944.0	943.4
152.5°	963.2	962.6	962.4	962.1	961.9	961.7	961.5	961.3	961.0	960.8	960.5
155°	984.6	983.7	983.5	983.4	983.2	983.0	983.1	983.5	983.8	984.2	984.5
157.5°	1003.3	1002.2	1002.4	1002.6	1002.7	1002.9	1003.0	1003.0	1003.1	1003.1	1003.1
160°	1014.0	1012.9	1013.1	1013.3	1013.5	1013.6	1013.8	1014.0	1014.2	1014.3	1014.5
162.5°	1023.6	1022.4	1022.6	1022.8	1022.9	1023.1	1023.4	1023.9	1024.3	1024.8	1025.2
165°	1036.4	1035.0	1035.2	1035.4	1035.6	1035.7	1036.1	1036.6	1037.1	1037.6	1038.2
167.5°	1046.5	1045.1	1045.1	1045.1	1045.1	1045.1	1045.5	1046.2	1046.9	1047.6	1048.3
170°	1052.3	1050.9	1050.9	1050.9	1050.9	1050.9	1051.2	1051.9	1052.6	1053.3	1054.0
172.5°	1056.0	1054.6	1054.5	1054.3	1054.2	1054.1	1054.4	1055.2	1056.1	1056.9	1057.7
175°	1060.8	1059.6	1059.3	1059.1	1058.9	1058.8	1059.1	1060.1	1061.0	1061.8	1062.7
177.5°	1062.6	1061.4	1061.3	1061.2	1061.0	1060.9	1061.2	1061.9	1062.6	1063.3	1063.9
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1614.2	1620.2	1627.9	1639.5	1648.3	1656.0	1657.6	1659.8	1665.4	1674.7	1681.8
5°	1624.7	1640.4	1665.9	1690.6	1717.5	1739.4	1760.0	1774.4	1788.2	1817.1	1840.5
7.5°	1621.3	1656.6	1696.4	1740.8	1785.7	1829.3	1869.8	1905.9	1941.9	1984.0	2031.9
10°	1619.1	1660.4	1713.9	1771.0	1833.6	1894.7	1953.9	1999.9	2053.5	2101.6	2162.7
12.5°	1608.7	1668.1	1732.1	1805.1	1882.0	1952.5	2030.2	2093.9	2155.3	2224.7	2295.8
15°	1595.1	1667.3	1748.4	1845.2	1962.1	2047.3	2127.0	2237.7	2313.3	2388.8	2490.6
17.5°	1570.2	1658.3	1759.6	1885.5	1983.0	2097.5	2217.5	2304.9	2406.7	2513.3	2605.4
20°	1550.4	1652.8	1766.3	1890.0	2014.3	2138.7	2254.8	2359.3	2464.5	2587.5	2663.1
22.5°	1530.7	1631.9	1749.7	1881.2	2014.9	2145.9	2277.3	2400.0	2518.3	2642.4	2739.0
25°	1488.5	1608.8	1736.7	1870.7	2002.7	2147.0	2303.6	2440.4	2586.8	2714.6	2806.0
27.5°	1445.9	1556.2	1683.4	1819.4	1966.1	2136.7	2321.0	2476.4	2623.1	2714.6	2743.4
30°	1407.4	1524.3	1641.1	1779.3	1938.0	2128.4	2324.3	2502.2	2622.5	2662.4	2632.8
32.5°	1368.5	1474.3	1590.0	1731.4	1900.1	2108.1	2328.6	2486.9	2559.3	2528.8	2408.5
35°	1299.6	1395.1	1507.1	1648.7	1842.5	2096.8	2310.6	2417.7	2399.8	2228.1	2001.2
37.5°	1225.9	1303.7	1407.4	1555.5	1782.8	2052.1	2232.4	2248.3	2093.7	1829.9	1567.9
40°	1167.6	1237.7	1344.2	1498.8	1736.7	2008.1	2153.8	2089.9	1850.1	1556.6	1338.1
42.5°	1111.0	1170.1	1272.7	1439.5	1692.7	1948.2	2036.7	1897.5	1620.8	1343.3	1144.6
45°	1015.0	1070.8	1173.8	1344.9	1602.7	1833.6	1821.9	1579.9	1303.0	1079.6	914.7
47.5°	924.0	972.7	1069.4	1244.2	1496.9	1661.7	1552.5	1295.1	1060.2	880.9	763.3
50°	859.7	907.9	1004.1	1176.6	1412.3	1532.6	1376.5	1128.4	913.3	764.9	671.5
52.5°	798.2	845.2	933.1	1101.3	1310.0	1381.9	1214.4	984.4	805.1	676.9	596.6
55°	712.0	747.7	826.8	987.5	1143.6	1160.0	990.3	797.9	650.2	560.8	505.8
57.5°	624.2	654.9	733.1	861.1	970.5	962.0	801.0	634.6	535.1	468.7	428.9
60°	566.9	597.2	665.9	775.9	858.4	829.5	681.8	547.8	462.5	413.7	382.1
62.5°	513.6	537.2	601.6	681.9	741.2	708.5	582.8	471.9	404.2	363.1	338.1
65°	436.4	455.7	507.2	549.1	582.1	550.5	446.1	369.0	320.2	291.3	274.2
67.5°	363.0	375.3	407.8	422.9	446.2	411.5	335.4	283.9	256.1	231.8	219.7
70°	316.8	325.8	343.0	355.3	361.5	325.8	269.4	231.6	208.2	191.1	183.5
72.5°	270.6	278.5	282.0	292.1	288.9	255.4	216.6	186.5	169.8	158.0	148.3
75°	206.8	210.3	206.8	202.8	193.8	170.5	143.6	128.6	116.1	110.7	107.2
77.5°	150.8	149.7	145.0	138.6	123.3	108.6	94.1	89.1	83.7	80.8	79.6
80°	116.1	113.4	109.3	99.0	85.9	75.6	72.2	68.8	66.7	63.2	62.5
82.5°	86.4	84.8	78.0	69.3	60.1	55.2	52.4	51.1	49.1	47.3	47.2
85°	46.0	44.0	36.5	31.6	30.2	28.9	28.2	28.2	25.4	24.7	24.7
87.5°	15.3	12.4	12.2	10.9	11.3	10.7	11.7	11.0	10.9	11.6	10.7
90°	2.5	4.3	6.1	7.8	9.8	12.1	14.3	16.7	19.0	19.7	20.4
92.5°	14.2	13.7	13.2	12.7	13.3	15.0	16.8	18.5	20.2	21.3	22.4
95°	41.0	33.7	26.6	19.4	16.8	18.7	20.6	22.5	24.4	25.8	27.0
97.5°	93.6	90.4	87.2	83.9	75.9	63.3	50.7	38.1	25.4	26.9	28.3
100°	136.9	140.5	143.9	147.4	135.5	108.2	80.8	53.4	26.1	27.5	28.9
102.5°	177.6	180.2	182.7	185.2	171.6	141.7	111.7	81.8	51.9	47.6	43.2
105°	237.2	239.1	241.1	243.0	236.1	220.3	204.5	188.6	172.9	141.9	110.8
107.5°	300.3	301.8	303.4	304.9	306.9	309.4	311.9	314.4	316.9	294.2	271.4
110°	342.4	343.9	345.3	346.7	348.3	350.3	352.2	354.2	356.1	350.3	344.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	382.7	384.1	385.3	386.6	388.1	390.1	392.0	393.9	395.9	396.0	396.1
115°	442.4	443.4	444.5	445.6	446.9	448.5	450.0	451.6	453.2	454.9	456.7
117.5°	500.6	501.9	503.2	504.4	505.5	506.3	507.2	508.0	508.8	510.2	511.6
120°	536.8	538.5	540.0	541.6	542.7	543.2	543.7	544.2	544.7	546.1	547.5
122.5°	573.2	574.5	575.8	577.1	578.0	578.8	579.5	580.1	580.8	581.8	582.7
125°	623.5	624.9	626.3	627.7	628.8	629.5	630.2	630.9	631.6	632.0	632.3
127.5°	672.2	673.6	675.0	676.4	677.5	678.3	679.2	680.0	680.9	681.5	682.0
130°	702.5	703.9	705.3	706.7	707.7	708.4	709.1	709.8	710.5	711.2	712.0
132.5°	731.5	733.0	734.4	735.8	736.7	737.3	737.8	738.4	739.0	739.7	740.3
135°	775.6	776.6	777.7	778.7	779.6	780.3	781.0	781.7	782.4	782.9	783.5
137.5°	813.7	815.1	816.4	817.7	818.6	819.0	819.4	819.7	820.1	821.0	821.8
140°	838.7	839.8	840.8	841.9	842.6	843.2	843.7	844.2	844.8	845.5	846.2
142.5°	862.1	863.1	864.2	865.3	866.1	866.6	867.1	867.6	868.2	868.7	869.3
145°	894.9	896.2	897.4	898.7	899.4	899.8	900.1	900.5	900.8	901.2	901.5
147.5°	925.3	926.1	927.0	927.8	928.4	928.7	929.0	929.4	929.7	930.1	930.4
150°	944.0	944.5	945.0	945.5	946.0	946.3	946.7	947.1	947.5	947.8	948.1
152.5°	960.8	961.0	961.3	961.5	961.7	961.9	962.1	962.4	962.6	963.2	963.8
155°	984.2	983.8	983.5	983.1	983.0	983.2	983.4	983.5	983.7	984.6	985.5
157.5°	1003.1	1003.1	1003.0	1003.0	1002.9	1002.7	1002.6	1002.4	1002.2	1003.3	1004.3
160°	1014.3	1014.2	1014.0	1013.8	1013.6	1013.5	1013.3	1013.1	1012.9	1014.0	1015.0
162.5°	1024.8	1024.3	1023.9	1023.4	1023.1	1022.9	1022.8	1022.6	1022.4	1023.6	1024.8
165°	1037.6	1037.1	1036.6	1036.1	1035.7	1035.6	1035.4	1035.2	1035.0	1036.4	1037.8
167.5°	1047.6	1046.9	1046.2	1045.5	1045.1	1045.1	1045.1	1045.1	1045.1	1046.5	1047.9
170°	1053.3	1052.6	1051.9	1051.2	1050.9	1050.9	1050.9	1050.9	1050.9	1052.3	1053.6
172.5°	1056.9	1056.1	1055.2	1054.4	1054.1	1054.2	1054.3	1054.5	1054.6	1056.0	1057.4
175°	1061.8	1061.0	1060.1	1059.1	1058.8	1058.9	1059.1	1059.3	1059.6	1060.8	1062.0
177.5°	1063.3	1062.6	1061.9	1061.2	1060.9	1061.0	1061.2	1061.3	1061.4	1062.6	1063.7
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1693.3	1693.3	1695.6	1703.8	1705.0	1712.0	1709.9
5°	1861.1	1874.1	1879.0	1899.6	1911.9	1917.4	1906.4
7.5°	2066.2	2102.9	2120.4	2142.0	2161.1	2166.9	2151.9
10°	2215.6	2254.1	2286.4	2306.4	2324.9	2337.3	2353.1
12.5°	2360.3	2407.5	2438.2	2466.4	2485.5	2501.1	2503.8
15°	2517.4	2588.9	2643.1	2683.0	2702.9	2713.2	2709.2
17.5°	2675.8	2742.1	2780.8	2821.5	2849.0	2850.4	2851.3
20°	2765.5	2830.0	2874.8	2905.0	2935.9	2934.6	2941.4
22.5°	2825.4	2876.3	2910.5	2932.4	2943.0	2937.8	2939.2
25°	2853.5	2868.5	2862.4	2827.3	2818.4	2786.1	2791.6
27.5°	2708.9	2637.4	2563.4	2468.3	2393.3	2333.3	2336.3
30°	2512.5	2386.1	2241.8	2120.8	2012.3	1982.1	1917.4
32.5°	2238.3	2048.5	1879.5	1766.8	1673.5	1648.3	1592.0
35°	1773.1	1588.9	1415.0	1310.6	1269.3	1211.6	1210.9
37.5°	1378.2	1216.0	1124.1	1045.7	1004.6	969.7	966.2
40°	1159.4	1032.9	963.5	907.2	866.7	840.5	834.4
42.5°	1006.5	904.2	839.3	804.4	773.2	759.7	749.6
45°	821.9	753.3	707.8	676.2	661.9	651.5	646.0
47.5°	687.5	641.5	610.6	589.6	577.8	566.9	569.9
50°	614.4	576.6	553.9	534.0	525.0	517.5	518.2
52.5°	555.5	521.6	503.3	488.9	477.8	472.4	469.8
55°	471.4	450.1	431.6	421.3	415.1	407.6	405.5
57.5°	402.1	385.7	370.5	358.9	357.4	350.1	351.0
60°	356.0	342.2	329.9	323.7	318.9	312.7	314.8
62.5°	318.1	306.5	295.3	290.1	285.4	280.8	281.8
65°	260.4	249.4	242.6	239.8	237.8	235.7	233.7
67.5°	207.5	200.9	196.5	190.7	186.4	185.7	183.6
70°	174.6	165.6	158.0	150.5	148.5	147.7	148.5
72.5°	140.0	134.3	132.2	128.6	128.2	126.3	127.5
75°	105.1	103.1	101.7	99.0	99.0	99.0	99.0
77.5°	77.6	76.2	75.4	74.9	74.2	73.2	73.1
80°	60.5	59.8	58.4	58.4	57.8	58.4	57.8
82.5°	45.6	45.5	44.1	44.1	43.4	43.0	43.4
85°	23.3	22.7	24.0	22.7	23.3	22.0	23.3
87.5°	10.8	10.9	10.5	10.6	10.1	11.3	10.2
90°	21.0	21.7	22.3	22.6	23.0	23.3	23.7
92.5°	23.5	24.7	25.3	25.5	25.8	26.0	26.3
95°	28.2	29.4	30.0	30.0	30.0	30.0	30.0
97.5°	29.6	31.0	31.8	32.0	32.2	32.3	32.5
100°	30.3	31.7	32.4	32.6	32.8	33.0	33.1
102.5°	38.9	34.5	32.5	32.8	33.1	33.4	33.8
105°	79.8	48.7	33.3	33.7	34.0	34.4	34.7
107.5°	248.6	225.8	202.7	179.4	155.9	132.5	109.1
110°	338.7	333.0	317.5	292.4	267.3	242.2	217.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	396.2	396.3	393.6	388.4	383.0	377.8	372.5
115°	458.5	460.2	461.4	462.1	462.8	463.5	464.2
117.5°	513.0	514.3	515.1	515.3	515.4	515.5	515.7
120°	549.0	550.4	551.1	551.1	551.1	551.1	551.1
122.5°	583.7	584.7	585.2	585.4	585.5	585.7	585.8
125°	632.7	633.0	633.4	633.7	634.1	634.4	634.8
127.5°	682.6	683.1	683.2	682.9	682.6	682.2	681.9
130°	712.7	713.4	713.6	713.2	712.9	712.5	712.2
132.5°	741.0	741.7	741.8	741.4	740.9	740.4	739.9
135°	784.0	784.5	784.5	784.0	783.5	782.9	782.4
137.5°	822.6	823.5	823.7	823.4	823.0	822.7	822.3
140°	846.9	847.6	847.8	847.4	847.1	846.7	846.4
142.5°	869.8	870.4	870.4	869.9	869.4	869.0	868.5
145°	901.9	902.2	902.4	902.4	902.4	902.4	902.4
147.5°	930.8	931.1	930.9	930.1	929.3	928.5	927.7
150°	948.5	948.8	948.8	948.2	947.7	947.2	946.6
152.5°	964.4	965.1	965.0	964.2	963.4	962.6	961.8
155°	986.3	987.2	987.1	986.1	985.0	984.0	982.9
157.5°	1005.3	1006.4	1006.2	1004.9	1003.5	1002.2	1000.8
160°	1016.1	1017.1	1017.0	1015.8	1014.6	1013.4	1012.2
162.5°	1026.0	1027.1	1027.2	1026.1	1025.0	1024.0	1022.9
165°	1039.3	1040.7	1040.8	1039.6	1038.2	1037.0	1035.8
167.5°	1049.4	1050.8	1050.8	1049.4	1047.9	1046.5	1045.1
170°	1055.0	1056.4	1056.4	1055.0	1053.6	1052.3	1050.9
172.5°	1058.8	1060.3	1060.2	1058.6	1057.1	1055.5	1054.0
175°	1063.2	1064.4	1064.3	1063.0	1061.6	1060.2	1058.7
177.5°	1064.8	1065.9	1065.8	1064.4	1063.0	1061.6	1060.2
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7

(END OF REPORT)