

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: P331403-840

Luminaire Tested: **SA2XXDIP-C865D925U840-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331403-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C865D925U840-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 925 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7190.8 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

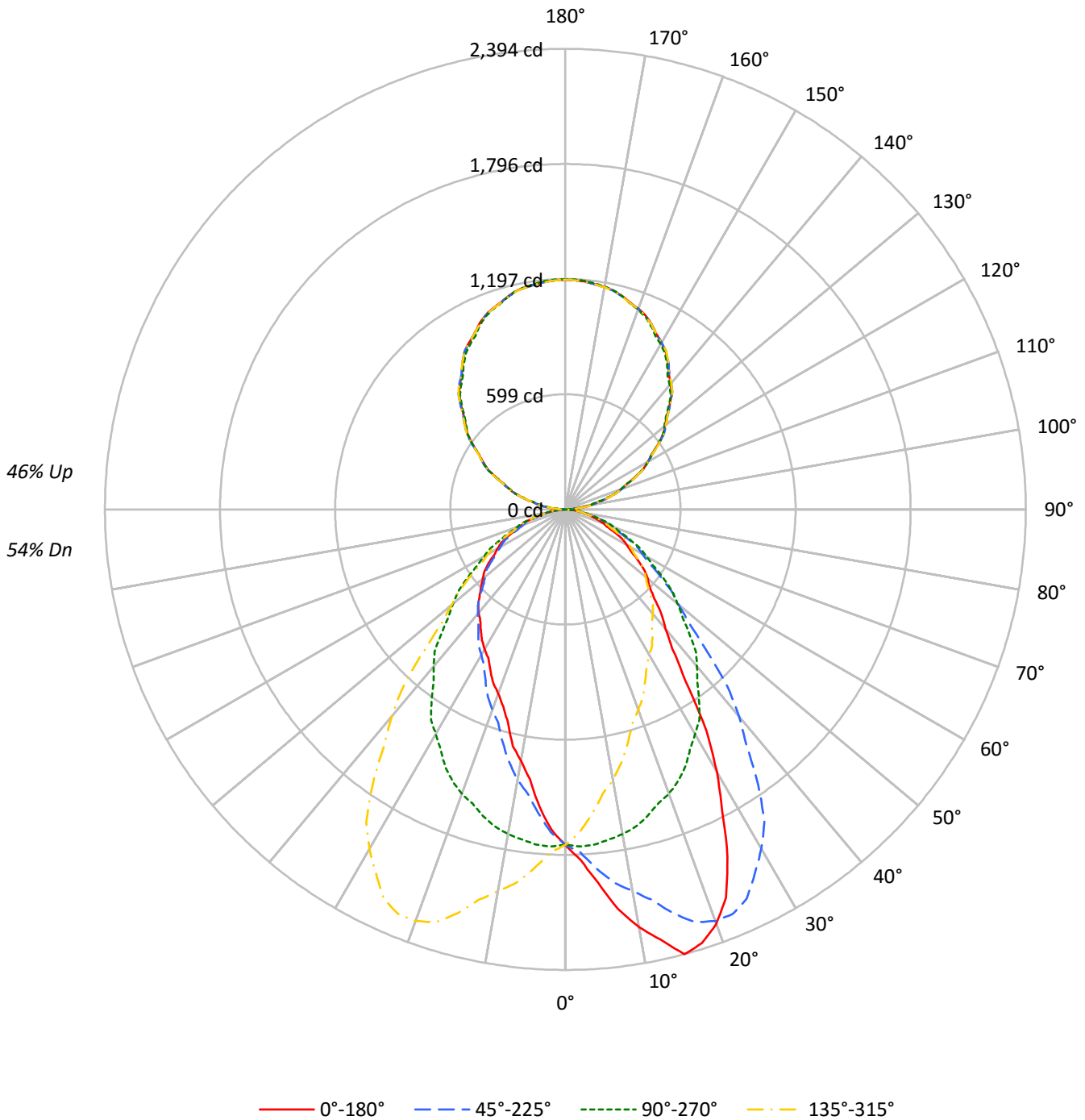
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100	100	85	85	85	72	72	72	59	59	59	54
1	99	95	91	88	92	88	85	82	76	73	71	64	62	61	53	52	51	46
2	91	83	78	73	84	78	73	68	67	63	60	57	54	52	48	46	44	39
3	83	74	67	61	77	69	63	58	59	55	51	51	47	44	43	40	38	34
4	76	66	58	52	70	61	55	49	53	48	44	45	42	38	38	36	33	30
5	70	59	51	45	65	55	48	43	48	42	38	41	37	34	35	32	29	26
6	65	53	45	39	60	50	43	37	43	38	34	37	33	30	32	29	26	23
7	60	48	40	35	56	45	38	33	39	34	30	34	30	27	29	26	23	21
8	56	44	36	31	52	41	34	30	36	31	27	31	27	24	27	24	21	19
9	52	40	33	28	48	38	31	27	33	28	24	29	25	22	25	22	19	17
10	49	37	30	25	45	35	28	24	31	25	22	27	23	20	23	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	28150	28150	28150	28150
5°	31561	28336	25109	28336
10°	36166	28103	21730	28103
15°	40010	27587	19198	27587
20°	39400	27034	17500	27034
25°	35527	26298	16425	26298
30°	29358	25124	15642	25124
35°	21396	23893	15084	23893
40°	17089	22443	14773	22443
45°	14933	20763	14351	20763
50°	14039	19138	14071	19138
55°	12940	17486	13695	17486
60°	11858	15733	13114	15733
65°	10804	14155	12542	14155
70°	9805	12623	11703	12623
75°	8696	10911	10368	10911
80°	7476	9028	8350	9028
85°	6706	6706	4965	6706



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	2.3
10°-20°	482.7	6.7
20°-30°	700.6	9.7
30°-40°	739.3	10.3
40°-50°	654.6	9.1
50°-60°	522.4	7.3
60°-70°	355.1	4.9
70°-80°	182.0	2.5
80°-90°	48.6	0.7
90°-100°	75.7	1.1
100°-110°	235.0	3.3
110°-120°	401.8	5.6
120°-130°	528.3	7.3
130°-140°	593.0	8.2
140°-150°	581.4	8.1
150°-160°	487.7	6.8
160°-170°	323.5	4.5
170°-180°	113.0	1.6
0°-30°	1349.4	18.8
0°-40°	2088.7	29.0
0°-60°	3265.7	45.4
0°-90°	3851.4	53.6
90°-120°	712.5	9.9
90°-150°	2415.2	33.6
90°-180°	3339.0	46.4
0°-180°	7190.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1744	1744	1744	1744	1744	
5°	1947	1748	1549	1748	1947	194
15°	2394	1650	1148	1650	2394	660
25°	1994	1476	922	1476	1994	901
35°	1086	1212	765	1212	1086	706
45°	654	909	628	909	654	514
55°	460	621	486	621	460	412
65°	283	370	328	370	283	281
75°	139	175	166	175	139	149
85°	36	36	27	36	36	41
90°	34	1	34	1	34	17
95°	62	52	62	52	62	70
105°	224	217	224	217	224	235
115°	403	403	403	403	403	398
125°	588	586	588	586	588	525
135°	768	759	768	759	768	591
145°	931	921	931	921	931	582
155°	1061	1053	1061	1053	1061	488
165°	1147	1146	1147	1146	1147	323
175°	1188	1192	1188	1192	1188	113
180°	1194	1194	1194	1194	1194	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1824.0	1824.5	1825.6	1817.1	1815.9	1815.9	1808.5	1802.0	1794.5	1784.3	1785.4
5°	1947.3	1954.7	1957.3	1949.3	1937.2	1935.9	1924.5	1905.7	1888.3	1874.2	1864.2
7.5°	2094.5	2097.4	2090.8	2080.2	2071.2	2055.2	2034.0	2013.3	1984.2	1957.5	1937.6
10°	2205.9	2210.0	2198.6	2183.1	2170.4	2151.6	2120.8	2089.3	2051.1	2014.3	1984.8
12.5°	2290.7	2300.6	2285.9	2283.9	2262.1	2236.3	2199.7	2183.7	2130.0	2078.6	2047.0
15°	2393.6	2392.9	2394.3	2381.5	2365.4	2361.4	2322.6	2280.4	2204.6	2174.4	2122.2
17.5°	2363.8	2374.0	2378.7	2378.5	2378.1	2375.6	2363.2	2336.5	2298.6	2249.7	2189.3
20°	2293.1	2306.4	2308.5	2323.9	2332.6	2344.0	2348.6	2341.3	2317.8	2276.9	2224.7
22.5°	2183.7	2187.5	2193.7	2217.8	2236.6	2265.2	2280.1	2304.8	2295.8	2275.9	2232.2
25°	1994.2	1987.5	2010.9	2023.0	2066.6	2112.1	2145.0	2181.1	2213.3	2232.7	2220.0
27.5°	1766.7	1756.6	1791.7	1823.7	1859.1	1908.4	1959.6	2020.0	2070.3	2133.1	2154.7
30°	1574.7	1580.7	1614.3	1648.4	1702.0	1771.7	1829.4	1895.7	1967.4	2037.7	2086.7
32.5°	1367.8	1391.0	1412.2	1464.5	1511.8	1589.4	1673.9	1756.9	1846.2	1926.2	2002.0
35°	1085.5	1112.4	1141.9	1180.0	1246.4	1323.4	1405.8	1517.7	1639.7	1749.0	1838.8
37.5°	913.7	909.5	926.3	953.9	1007.6	1069.9	1164.8	1275.4	1418.9	1547.2	1673.9
40°	810.8	808.1	820.2	845.7	886.6	932.1	1015.2	1112.4	1245.7	1402.5	1553.3
42.5°	740.0	741.6	748.3	766.3	794.4	831.8	894.0	976.7	1098.8	1246.5	1408.6
45°	654.0	658.7	666.1	674.8	690.8	721.6	756.5	815.5	912.0	1035.3	1194.8
47.5°	592.1	592.2	599.8	607.3	616.9	634.3	662.7	699.7	767.8	868.2	1005.3
50°	558.9	554.2	559.6	565.5	575.6	587.6	606.4	641.3	686.8	767.9	882.5
52.5°	518.2	518.3	523.1	525.3	534.3	546.4	563.5	587.6	628.9	692.4	786.6
55°	459.7	463.0	465.7	469.7	477.8	486.5	499.9	515.9	548.2	595.7	665.4
57.5°	404.8	405.8	408.5	416.2	421.2	429.3	442.0	456.6	477.5	512.7	565.1
60°	367.2	367.2	372.5	375.9	382.6	390.6	400.7	414.8	433.5	462.3	504.6
62.5°	333.0	332.3	334.5	340.0	345.1	352.6	362.6	374.6	392.2	417.9	452.6
65°	282.8	281.4	285.5	286.8	292.2	299.5	307.6	320.3	334.4	353.1	384.0
67.5°	234.5	236.1	238.3	240.9	243.8	251.6	256.9	265.9	277.8	293.4	314.3
70°	207.7	207.7	207.7	209.7	213.8	217.8	223.2	230.6	241.9	255.3	274.1
72.5°	177.7	179.9	182.0	180.8	185.9	188.3	194.7	198.8	209.7	218.3	234.9
75°	139.4	139.4	139.4	142.7	144.7	146.7	150.8	154.8	160.2	170.9	179.6
77.5°	104.0	103.7	104.4	105.2	107.3	109.8	111.0	114.6	119.6	124.5	131.9
80°	80.4	81.8	82.4	83.7	83.7	85.1	85.7	90.5	93.8	97.1	101.9
82.5°	62.2	62.4	62.6	62.8	63.4	64.2	65.9	67.5	68.6	71.4	75.0
85°	36.2	35.5	35.5	36.9	36.2	36.2	37.6	38.9	38.9	39.5	41.5
87.5°	20.8	20.7	21.2	20.7	20.6	21.2	21.3	20.8	21.4	22.0	21.6
90°	34.2	34.0	33.8	33.6	33.3	33.5	33.9	34.3	34.8	35.2	30.3
92.5°	32.6	32.6	32.5	32.5	32.5	32.4	32.3	32.2	32.1	32.0	30.9
95°	62.5	62.9	63.4	63.8	64.2	64.5	64.5	64.5	64.5	64.5	64.0
97.5°	108.3	108.3	108.4	108.4	108.5	108.5	108.5	108.5	108.5	108.5	107.6
100°	138.0	138.3	138.6	138.8	139.0	139.1	139.1	139.1	139.1	139.1	138.5
102.5°	172.0	172.2	172.4	172.6	172.8	172.9	172.7	172.5	172.3	172.2	171.3
105°	223.7	223.7	223.7	223.7	223.7	223.5	223.1	222.6	222.2	221.7	221.3
107.5°	272.5	273.6	274.6	275.6	276.6	277.0	276.9	276.7	276.5	276.3	276.3
110°	310.4	311.0	311.7	312.5	313.1	313.5	313.5	313.5	313.5	313.5	313.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	346.7	347.2	347.7	348.2	348.6	349.2	349.7	350.2	350.8	351.3	351.5
115°	403.1	403.7	404.5	405.2	405.8	406.3	406.5	406.7	407.0	407.2	407.6
117.5°	457.0	457.6	458.3	459.0	459.6	460.2	460.8	461.3	461.8	462.4	463.6
120°	494.8	495.5	496.1	496.9	497.6	497.9	497.9	497.9	497.9	497.9	499.7
122.5°	531.9	532.4	532.9	533.4	533.9	534.4	534.9	535.4	536.0	536.5	537.9
125°	588.5	588.8	589.0	589.3	589.5	589.9	590.6	591.3	591.9	592.6	593.3
127.5°	640.2	640.9	641.6	642.3	643.0	643.8	644.6	645.4	646.2	647.0	647.8
130°	677.2	678.1	679.0	679.9	680.9	681.5	682.0	682.4	682.9	683.3	683.8
132.5°	712.8	713.5	714.2	714.9	715.6	716.4	717.4	718.4	719.4	720.3	720.2
135°	767.9	768.6	769.3	769.9	770.6	771.0	771.3	771.5	771.7	771.9	771.5
137.5°	817.9	818.8	819.7	820.6	821.5	822.0	822.2	822.4	822.6	822.7	822.2
140°	852.6	853.5	854.3	855.3	856.2	856.7	856.7	856.7	856.7	856.7	855.6
142.5°	884.0	884.9	885.9	886.8	887.7	888.0	887.8	887.7	887.5	887.3	886.5
145°	931.2	932.1	933.0	933.9	934.8	935.1	934.9	934.6	934.4	934.2	932.9
147.5°	973.3	974.2	975.0	975.9	976.7	976.9	976.4	975.9	975.4	974.9	974.0
150°	1000.8	1001.4	1002.1	1002.8	1003.4	1003.4	1002.8	1002.1	1001.4	1000.8	999.9
152.5°	1026.5	1027.4	1028.2	1029.1	1030.0	1030.0	1029.1	1028.2	1027.4	1026.5	1025.4
155°	1061.2	1061.9	1062.6	1063.2	1063.9	1063.7	1062.6	1061.5	1060.4	1059.1	1058.5
157.5°	1091.1	1092.1	1093.2	1094.3	1095.3	1095.1	1093.6	1092.1	1090.6	1089.0	1088.6
160°	1109.5	1110.4	1111.4	1112.3	1113.2	1113.0	1111.6	1110.2	1108.9	1107.5	1107.3
162.5°	1125.7	1126.8	1127.8	1128.9	1130.0	1129.7	1128.2	1126.7	1125.2	1123.7	1123.5
165°	1146.9	1148.0	1149.1	1150.2	1151.3	1151.1	1149.5	1148.0	1146.4	1144.9	1144.9
167.5°	1164.2	1165.4	1166.5	1167.7	1168.8	1168.6	1167.1	1165.5	1164.0	1162.4	1162.5
170°	1173.1	1174.4	1175.8	1177.1	1178.4	1178.3	1176.8	1175.2	1173.7	1172.0	1172.3
172.5°	1180.3	1181.6	1183.1	1184.4	1185.7	1185.6	1184.1	1182.5	1180.9	1179.3	1179.5
175°	1188.2	1189.5	1190.8	1192.2	1193.6	1193.5	1191.8	1190.3	1188.7	1187.2	1187.6
177.5°	1191.8	1192.9	1194.0	1195.1	1196.1	1196.1	1195.1	1194.0	1192.9	1191.8	1192.1
180°	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1789.2	1784.8	1782.2	1772.5	1763.9	1755.3	1752.7	1753.7	1742.0	1730.7	1725.9
5°	1858.9	1845.4	1832.7	1814.6	1793.2	1769.7	1757.7	1748.3	1724.8	1699.4	1684.7
7.5°	1921.3	1902.1	1877.6	1843.6	1812.3	1775.4	1752.0	1731.2	1697.0	1661.0	1639.0
10°	1959.3	1933.2	1901.7	1860.2	1822.0	1777.1	1745.6	1714.1	1673.9	1631.0	1604.2
12.5°	1992.1	1956.8	1925.8	1872.5	1827.4	1771.2	1733.8	1689.4	1647.1	1596.2	1569.9
15°	2069.9	2004.9	1945.9	1885.6	1830.0	1751.6	1710.1	1650.4	1594.8	1531.9	1501.7
17.5°	2130.1	2057.1	1964.2	1887.5	1822.6	1735.9	1674.9	1603.4	1537.6	1465.6	1424.6
20°	2164.4	2080.6	1980.7	1889.7	1811.9	1712.7	1646.4	1573.4	1496.3	1415.2	1371.0
22.5°	2184.7	2096.7	1997.9	1881.6	1790.5	1693.9	1610.5	1530.5	1452.4	1364.8	1318.5
25°	2191.2	2110.8	2006.3	1874.9	1763.7	1654.5	1554.0	1476.2	1381.7	1300.0	1232.3
27.5°	2159.3	2101.6	2001.1	1862.3	1732.7	1605.0	1493.0	1404.9	1305.3	1216.5	1148.4
30°	2120.2	2086.7	1988.8	1849.5	1708.1	1570.7	1447.4	1347.6	1248.4	1158.6	1088.9
32.5°	2059.6	2052.3	1966.3	1831.2	1681.8	1527.3	1399.7	1298.8	1188.9	1100.7	1034.2
35°	1940.6	1972.8	1918.4	1790.5	1632.3	1465.5	1327.5	1212.2	1098.3	1013.8	951.5
37.5°	1781.1	1861.0	1846.7	1730.8	1565.6	1398.3	1245.9	1125.4	1016.8	931.6	870.4
40°	1671.2	1773.0	1787.8	1685.3	1518.4	1346.3	1184.8	1064.8	958.9	881.2	819.5
42.5°	1553.3	1672.2	1712.7	1630.6	1466.9	1291.5	1130.0	1005.8	901.0	825.5	770.7
45°	1355.6	1513.1	1586.1	1539.2	1381.1	1201.4	1035.3	909.3	814.2	743.2	700.9
47.5°	1170.7	1342.8	1441.1	1424.5	1285.5	1107.6	943.3	822.4	729.8	673.2	635.4
50°	1040.0	1216.9	1335.4	1340.9	1216.9	1040.7	875.9	761.9	676.8	623.9	593.0
52.5°	926.3	1095.2	1224.6	1252.9	1140.2	971.0	815.3	701.9	626.9	578.2	550.7
55°	778.0	920.7	1064.1	1116.4	1025.9	865.1	721.0	621.2	550.8	517.4	493.2
57.5°	646.8	765.8	898.2	955.9	900.2	762.5	627.4	540.8	483.6	454.3	435.9
60°	577.6	671.5	789.4	858.4	810.1	687.5	569.6	487.2	440.3	414.1	396.7
62.5°	513.3	596.4	696.1	759.2	733.0	617.3	511.7	438.9	398.4	374.0	361.3
65°	423.5	489.2	566.2	624.5	607.1	519.3	432.9	370.5	338.4	318.9	308.9
67.5°	348.7	396.2	449.6	500.7	486.7	424.4	355.0	306.5	282.6	265.8	259.7
70°	301.5	337.7	385.3	426.2	414.8	363.9	308.9	267.4	246.6	232.6	226.5
72.5°	256.5	286.3	322.6	356.0	348.3	306.0	260.1	228.7	212.8	199.9	194.9
75°	193.7	216.4	238.5	260.6	258.6	225.8	199.0	174.9	162.2	152.1	150.1
77.5°	143.0	155.7	170.8	183.9	180.3	161.5	140.5	126.6	117.2	110.6	109.5
80°	109.3	116.6	127.3	136.7	132.0	124.0	107.2	97.1	90.5	83.7	81.1
82.5°	79.2	86.5	93.0	98.1	94.5	86.9	76.6	69.8	65.8	61.2	60.2
85°	41.5	45.5	48.3	49.6	48.3	43.5	38.9	36.2	32.8	30.8	30.2
87.5°	21.2	20.2	19.2	19.5	17.4	16.9	14.1	12.0	12.0	12.0	11.5
90°	25.4	20.5	15.6	11.7	9.1	6.4	3.7	1.0	3.7	6.4	9.1
92.5°	29.7	28.6	27.4	25.9	23.8	21.9	19.9	18.0	19.9	21.9	23.8
95°	63.6	63.1	62.7	61.4	59.1	56.9	54.6	52.4	54.6	56.9	59.1
97.5°	106.7	105.9	105.0	103.6	101.7	99.7	97.8	95.7	97.8	99.7	101.7
100°	137.7	137.0	136.4	135.1	133.4	131.6	129.8	127.9	129.8	131.6	133.4
102.5°	170.5	169.6	168.7	167.5	166.1	164.7	163.3	161.9	163.3	164.7	166.1
105°	220.9	220.4	219.9	219.3	218.7	218.0	217.3	216.7	217.3	218.0	218.7
107.5°	276.3	276.3	276.3	275.9	274.9	273.9	272.9	271.9	272.9	273.9	274.9
110°	313.5	313.5	313.5	312.8	311.4	310.0	308.7	307.4	308.7	310.0	311.4



TEST NUMBER: P331403-840

CATALOG NUMBER: SA2XXDIP-C865D925U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	351.6	351.8	352.0	351.4	350.1	348.8	347.4	346.1	347.4	348.8	350.1
115°	408.1	408.5	408.9	408.5	407.2	405.8	404.5	403.1	404.5	405.8	407.2
117.5°	464.8	466.2	467.4	467.2	465.3	463.5	461.7	460.0	461.7	463.5	465.3
120°	501.4	503.2	505.0	505.0	503.2	501.4	499.7	497.9	499.7	501.4	503.2
122.5°	539.1	540.3	541.6	541.1	539.0	536.8	534.6	532.5	534.6	536.8	539.0
125°	593.9	594.6	595.3	594.6	592.6	590.6	588.5	586.5	588.5	590.6	592.6
127.5°	648.6	649.4	650.3	649.3	646.8	644.3	641.7	639.1	641.7	644.3	646.8
130°	684.2	684.6	685.1	683.9	681.0	678.0	675.1	672.2	675.1	678.0	681.0
132.5°	720.2	720.1	720.0	718.8	716.4	714.1	711.7	709.3	711.7	714.1	716.4
135°	771.0	770.6	770.2	768.7	766.3	763.8	761.3	758.9	761.3	763.8	766.3
137.5°	821.6	821.0	820.4	819.1	817.1	815.1	813.0	811.1	813.0	815.1	817.1
140°	854.3	853.2	852.1	850.6	848.6	846.6	844.6	842.5	844.6	846.6	848.6
142.5°	885.8	884.9	884.2	882.8	880.8	878.8	876.8	874.7	876.8	878.8	880.8
145°	931.5	930.2	928.9	927.4	925.8	924.2	922.7	921.1	922.7	924.2	925.8
147.5°	973.1	972.3	971.4	970.0	968.1	966.2	964.3	962.4	964.3	966.2	968.1
150°	999.0	998.0	997.1	996.0	994.7	993.3	992.0	990.7	992.0	993.3	994.7
152.5°	1024.4	1023.3	1022.3	1021.1	1019.7	1018.3	1017.0	1015.6	1017.0	1018.3	1019.7
155°	1057.8	1057.2	1056.5	1055.8	1055.2	1054.5	1053.8	1053.2	1053.8	1054.5	1055.2
157.5°	1088.2	1087.8	1087.4	1087.0	1086.5	1086.1	1085.6	1085.2	1085.6	1086.1	1086.5
160°	1107.1	1106.9	1106.7	1106.3	1105.9	1105.4	1105.0	1104.6	1105.0	1105.4	1105.9
162.5°	1123.3	1123.1	1122.8	1122.7	1122.6	1122.5	1122.4	1122.3	1122.4	1122.5	1122.6
165°	1144.9	1144.9	1144.9	1145.0	1145.2	1145.4	1145.7	1145.9	1145.7	1145.4	1145.2
167.5°	1162.5	1162.6	1162.6	1163.0	1163.6	1164.3	1165.0	1165.6	1165.0	1164.3	1163.6
170°	1172.6	1172.8	1173.0	1173.4	1174.1	1174.8	1175.4	1176.1	1175.4	1174.8	1174.1
172.5°	1179.7	1180.0	1180.2	1180.6	1181.3	1182.0	1182.7	1183.4	1182.7	1182.0	1181.3
175°	1188.1	1188.5	1189.0	1189.5	1190.2	1190.8	1191.5	1192.2	1191.5	1190.8	1190.2
177.5°	1192.5	1192.9	1193.3	1193.7	1194.3	1194.8	1195.3	1195.9	1195.3	1194.8	1194.3
180°	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3



TEST NUMBER: P331403-840

CATALOG NUMBER: SA2XXDIP-C865D925U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1720.5	1717.3	1706.1	1700.2	1690.5	1681.4	1675.5	1678.2	1680.3	1679.2	1677.7
5°	1671.2	1658.5	1639.0	1622.2	1610.2	1588.1	1578.7	1574.1	1570.0	1565.3	1560.6
7.5°	1612.6	1592.5	1564.5	1540.7	1518.1	1490.7	1475.0	1465.6	1456.0	1445.4	1436.0
10°	1570.7	1542.6	1513.1	1479.6	1452.8	1427.9	1405.8	1391.1	1377.8	1364.9	1355.6
12.5°	1526.7	1494.3	1457.8	1412.0	1382.5	1347.1	1343.6	1317.7	1296.8	1288.9	1277.9
15°	1456.8	1411.2	1364.9	1310.7	1287.3	1255.1	1235.0	1214.9	1196.8	1184.1	1180.7
17.5°	1377.4	1318.4	1272.3	1233.3	1194.9	1162.0	1143.5	1127.4	1112.5	1095.5	1093.2
20°	1316.8	1265.8	1215.6	1181.3	1141.9	1108.3	1085.5	1069.4	1056.7	1046.7	1037.9
22.5°	1259.4	1203.7	1157.6	1120.2	1081.3	1054.2	1036.2	1020.7	1010.1	999.0	990.8
25°	1167.3	1123.8	1073.5	1031.3	999.1	981.7	966.9	953.5	946.8	939.5	930.1
27.5°	1086.7	1038.3	991.4	958.7	930.4	914.9	904.5	895.3	889.1	884.7	879.4
30°	1030.0	981.0	944.1	912.0	888.6	873.1	866.5	861.1	853.7	851.0	848.4
32.5°	975.2	931.2	899.7	871.8	849.4	839.4	833.2	828.4	822.6	819.9	814.6
35°	898.0	861.1	830.2	814.9	796.8	788.0	783.4	776.7	771.2	768.6	767.9
37.5°	825.2	793.1	772.8	753.1	745.4	740.0	733.7	729.0	727.4	727.0	726.4
40°	778.0	751.8	733.8	717.7	714.3	706.3	700.9	696.9	696.9	697.6	696.9
42.5°	735.1	711.7	695.7	681.8	677.8	673.1	667.7	667.4	668.5	670.8	668.5
45°	670.0	653.4	642.0	635.2	627.8	623.2	622.5	624.5	625.2	625.9	627.8
47.5°	610.4	599.2	588.9	581.5	578.2	577.4	576.6	580.2	583.4	584.6	587.6
50°	574.9	562.2	553.5	548.8	546.1	544.8	546.1	550.2	552.8	556.1	558.2
52.5°	535.2	526.2	520.3	516.6	515.5	516.3	516.6	521.2	525.5	526.6	527.7
55°	480.5	473.7	472.4	466.4	469.1	468.4	471.7	474.4	478.5	482.5	483.1
57.5°	425.8	420.4	416.8	417.4	418.2	421.1	423.9	428.6	432.9	437.2	437.6
60°	389.3	386.7	384.7	384.7	386.0	390.0	393.3	398.0	400.7	403.4	405.4
62.5°	356.1	353.5	351.4	352.4	356.0	358.4	362.2	364.8	367.5	370.1	371.1
65°	303.6	302.3	304.3	305.6	306.2	309.6	314.3	316.3	318.9	320.3	325.0
67.5°	255.2	255.4	255.2	257.0	260.9	261.8	266.2	270.8	271.4	274.0	277.0
70°	222.5	223.8	225.2	226.5	229.8	231.2	234.5	236.5	239.2	241.3	243.3
72.5°	192.5	192.7	194.1	193.8	196.6	199.5	202.4	204.4	207.0	209.6	211.6
75°	148.0	148.0	149.5	150.1	153.5	156.8	156.1	157.4	160.2	162.8	164.2
77.5°	108.2	106.6	108.2	108.9	109.9	112.7	113.2	115.1	118.2	117.2	118.8
80°	82.4	80.4	82.4	83.1	83.1	86.4	86.4	87.8	89.8	87.8	89.8
82.5°	58.9	57.9	59.4	59.5	60.6	60.7	61.8	62.0	64.0	63.1	64.0
85°	29.5	28.8	29.5	28.8	29.5	30.2	30.2	29.5	29.5	30.8	28.8
87.5°	11.5	11.7	12.1	13.1	13.5	14.0	13.4	13.3	13.2	12.0	12.0
90°	11.7	15.6	20.5	25.4	30.3	35.2	34.8	34.3	33.9	33.5	33.3
92.5°	25.9	27.4	28.6	29.7	30.9	32.0	32.1	32.2	32.3	32.4	32.5
95°	61.4	62.7	63.1	63.6	64.0	64.5	64.5	64.5	64.5	64.5	64.2
97.5°	103.6	105.0	105.9	106.7	107.6	108.5	108.5	108.5	108.5	108.5	108.5
100°	135.1	136.4	137.0	137.7	138.5	139.1	139.1	139.1	139.1	139.1	139.0
102.5°	167.5	168.7	169.6	170.5	171.3	172.2	172.3	172.5	172.7	172.9	172.8
105°	219.3	219.9	220.4	220.9	221.3	221.7	222.2	222.6	223.1	223.5	223.7
107.5°	275.9	276.3	276.3	276.3	276.3	276.3	276.5	276.7	276.9	277.0	276.6
110°	312.8	313.5	313.5	313.5	313.5	313.5	313.5	313.5	313.5	313.5	313.1



TEST NUMBER: P331403-840

CATALOG NUMBER: SA2XXDIP-C865D925U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	351.4	352.0	351.8	351.6	351.5	351.3	350.8	350.2	349.7	349.2	348.6
115°	408.5	408.9	408.5	408.1	407.6	407.2	407.0	406.7	406.5	406.3	405.8
117.5°	467.2	467.4	466.2	464.8	463.6	462.4	461.8	461.3	460.8	460.2	459.6
120°	505.0	505.0	503.2	501.4	499.7	497.9	497.9	497.9	497.9	497.9	497.6
122.5°	541.1	541.6	540.3	539.1	537.9	536.5	536.0	535.4	534.9	534.4	533.9
125°	594.6	595.3	594.6	593.9	593.3	592.6	591.9	591.3	590.6	589.9	589.5
127.5°	649.3	650.3	649.4	648.6	647.8	647.0	646.2	645.4	644.6	643.8	643.0
130°	683.9	685.1	684.6	684.2	683.8	683.3	682.9	682.4	682.0	681.5	680.9
132.5°	718.8	720.0	720.1	720.2	720.2	720.3	719.4	718.4	717.4	716.4	715.6
135°	768.7	770.2	770.6	771.0	771.5	771.9	771.7	771.5	771.3	771.0	770.6
137.5°	819.1	820.4	821.0	821.6	822.2	822.7	822.6	822.4	822.2	822.0	821.5
140°	850.6	852.1	853.2	854.3	855.6	856.7	856.7	856.7	856.7	856.7	856.2
142.5°	882.8	884.2	884.9	885.8	886.5	887.3	887.5	887.7	887.8	888.0	887.7
145°	927.4	928.9	930.2	931.5	932.9	934.2	934.4	934.6	934.9	935.1	934.8
147.5°	970.0	971.4	972.3	973.1	974.0	974.9	975.4	975.9	976.4	976.9	976.7
150°	996.0	997.1	998.0	999.0	999.9	1000.8	1001.4	1002.1	1002.8	1003.4	1003.4
152.5°	1021.1	1022.3	1023.3	1024.4	1025.4	1026.5	1027.4	1028.2	1029.1	1030.0	1030.0
155°	1055.8	1056.5	1057.2	1057.8	1058.5	1059.1	1060.4	1061.5	1062.6	1063.7	1063.9
157.5°	1087.0	1087.4	1087.8	1088.2	1088.6	1089.0	1090.6	1092.1	1093.6	1095.1	1095.3
160°	1106.3	1106.7	1106.9	1107.1	1107.3	1107.5	1108.9	1110.2	1111.6	1113.0	1113.2
162.5°	1122.7	1122.8	1123.1	1123.3	1123.5	1123.7	1125.2	1126.7	1128.2	1129.7	1130.0
165°	1145.0	1144.9	1144.9	1144.9	1144.9	1144.9	1146.4	1148.0	1149.5	1151.1	1151.3
167.5°	1163.0	1162.6	1162.6	1162.5	1162.5	1162.4	1164.0	1165.5	1167.1	1168.6	1168.8
170°	1173.4	1173.0	1172.8	1172.6	1172.3	1172.0	1173.7	1175.2	1176.8	1178.3	1178.4
172.5°	1180.6	1180.2	1180.0	1179.7	1179.5	1179.3	1180.9	1182.5	1184.1	1185.6	1185.7
175°	1189.5	1189.0	1188.5	1188.1	1187.6	1187.2	1188.7	1190.3	1191.8	1193.5	1193.6
177.5°	1193.7	1193.3	1192.9	1192.5	1192.1	1191.8	1192.9	1194.0	1195.1	1196.1	1196.1
180°	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3



TEST NUMBER: P331403-840

CATALOG NUMBER: SA2XXDIP-C865D925U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1672.2	1671.2	1671.2	1666.4	1671.2	1671.2	1672.2	1677.7	1679.2	1680.3	1678.2
5°	1551.3	1549.2	1545.9	1549.2	1545.9	1549.2	1551.3	1560.6	1565.3	1570.0	1574.1
7.5°	1431.6	1423.5	1422.3	1414.4	1422.3	1423.5	1431.6	1436.0	1445.4	1456.0	1465.6
10°	1344.2	1338.9	1338.2	1325.4	1338.2	1338.9	1344.2	1355.6	1364.9	1377.8	1391.1
12.5°	1277.8	1264.9	1267.4	1260.0	1267.4	1264.9	1277.8	1277.9	1288.9	1296.8	1317.7
15°	1162.7	1162.7	1159.9	1148.5	1159.9	1162.7	1162.7	1180.7	1184.1	1196.8	1214.9
17.5°	1079.9	1078.5	1072.2	1075.4	1072.2	1078.5	1079.9	1093.2	1095.5	1112.5	1127.4
20°	1030.6	1026.6	1018.5	1018.5	1018.5	1026.6	1030.6	1037.9	1046.7	1056.7	1069.4
22.5°	984.0	983.7	975.1	977.8	975.1	983.7	984.0	990.8	999.0	1010.1	1020.7
25°	929.4	924.0	920.1	922.0	920.1	924.0	929.4	930.1	939.5	946.8	953.5
27.5°	877.7	874.7	874.4	869.0	874.4	874.7	877.7	879.4	884.7	889.1	895.3
30°	847.7	841.0	842.3	839.0	842.3	841.0	847.7	848.4	851.0	853.7	861.1
32.5°	813.3	810.9	809.6	806.8	809.6	810.9	813.3	814.6	819.9	822.6	828.4
35°	766.6	767.3	763.9	765.3	763.9	767.3	766.6	767.9	768.6	771.2	776.7
37.5°	725.7	727.8	726.3	726.7	726.3	727.8	725.7	726.4	727.0	727.4	729.0
40°	698.9	698.9	698.9	700.9	698.9	698.9	698.9	696.9	697.6	696.9	696.9
42.5°	673.2	672.1	671.1	670.9	671.1	672.1	673.2	668.5	670.8	668.5	667.4
45°	629.2	631.3	631.9	628.5	631.9	631.3	629.2	627.8	625.9	625.2	624.5
47.5°	589.5	589.7	589.5	592.4	589.5	589.7	589.5	587.6	584.6	583.4	580.2
50°	561.6	560.2	561.6	560.2	561.6	560.2	561.6	558.2	556.1	552.8	550.2
52.5°	532.1	532.3	531.5	531.3	531.5	532.3	532.1	527.7	526.6	525.5	521.2
55°	485.8	487.2	486.5	486.5	486.5	487.2	485.8	483.1	482.5	478.5	474.4
57.5°	438.0	439.2	440.1	437.2	440.1	439.2	438.0	437.6	437.2	432.9	428.6
60°	404.8	408.1	407.4	406.1	407.4	408.1	404.8	405.4	403.4	400.7	398.0
62.5°	374.2	375.4	375.3	375.0	375.3	375.4	374.2	371.1	370.1	367.5	364.8
65°	327.0	328.3	326.3	328.3	326.3	328.3	327.0	325.0	320.3	318.9	316.3
67.5°	276.2	276.6	278.1	279.0	278.1	276.6	276.2	277.0	274.0	271.4	270.8
70°	244.6	243.9	245.9	247.9	245.9	243.9	244.6	243.3	241.3	239.2	236.5
72.5°	211.4	212.8	212.2	213.6	212.2	212.8	211.4	211.6	209.6	207.0	204.4
75°	162.8	164.8	164.2	166.2	164.2	164.8	162.8	164.2	162.8	160.2	157.4
77.5°	117.6	118.0	117.6	118.8	117.6	118.0	117.6	118.8	117.2	118.2	115.1
80°	89.8	88.5	87.2	89.8	87.2	88.5	89.8	89.8	87.8	89.8	87.8
82.5°	62.4	63.2	61.9	61.9	61.9	63.2	62.4	64.0	63.1	64.0	62.0
85°	28.8	28.2	26.8	26.8	26.8	28.2	28.8	28.8	30.8	29.5	29.5
87.5°	12.1	11.6	11.6	11.1	11.6	11.6	12.1	12.0	12.0	13.2	13.3
90°	33.6	33.8	34.0	34.2	34.0	33.8	33.6	33.3	33.5	33.9	34.3
92.5°	32.5	32.5	32.6	32.6	32.6	32.5	32.5	32.5	32.4	32.3	32.2
95°	63.8	63.4	62.9	62.5	62.9	63.4	63.8	64.2	64.5	64.5	64.5
97.5°	108.4	108.4	108.3	108.3	108.3	108.4	108.4	108.5	108.5	108.5	108.5
100°	138.8	138.6	138.3	138.0	138.3	138.6	138.8	139.0	139.1	139.1	139.1
102.5°	172.6	172.4	172.2	172.0	172.2	172.4	172.6	172.8	172.9	172.7	172.5
105°	223.7	223.7	223.7	223.7	223.7	223.7	223.7	223.7	223.5	223.1	222.6
107.5°	275.6	274.6	273.6	272.5	273.6	274.6	275.6	276.6	277.0	276.9	276.7
110°	312.5	311.7	311.0	310.4	311.0	311.7	312.5	313.1	313.5	313.5	313.5



TEST NUMBER: P331403-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	348.2	347.7	347.2	346.7	347.2	347.7	348.2	348.6	349.2	349.7	350.2
115°	405.2	404.5	403.7	403.1	403.7	404.5	405.2	405.8	406.3	406.5	406.7
117.5°	459.0	458.3	457.6	457.0	457.6	458.3	459.0	459.6	460.2	460.8	461.3
120°	496.9	496.1	495.5	494.8	495.5	496.1	496.9	497.6	497.9	497.9	497.9
122.5°	533.4	532.9	532.4	531.9	532.4	532.9	533.4	533.9	534.4	534.9	535.4
125°	589.3	589.0	588.8	588.5	588.8	589.0	589.3	589.5	589.9	590.6	591.3
127.5°	642.3	641.6	640.9	640.2	640.9	641.6	642.3	643.0	643.8	644.6	645.4
130°	679.9	679.0	678.1	677.2	678.1	679.0	679.9	680.9	681.5	682.0	682.4
132.5°	714.9	714.2	713.5	712.8	713.5	714.2	714.9	715.6	716.4	717.4	718.4
135°	769.9	769.3	768.6	767.9	768.6	769.3	769.9	770.6	771.0	771.3	771.5
137.5°	820.6	819.7	818.8	817.9	818.8	819.7	820.6	821.5	822.0	822.2	822.4
140°	855.3	854.3	853.5	852.6	853.5	854.3	855.3	856.2	856.7	856.7	856.7
142.5°	886.8	885.9	884.9	884.0	884.9	885.9	886.8	887.7	888.0	887.8	887.7
145°	933.9	933.0	932.1	931.2	932.1	933.0	933.9	934.8	935.1	934.9	934.6
147.5°	975.9	975.0	974.2	973.3	974.2	975.0	975.9	976.7	976.9	976.4	975.9
150°	1002.8	1002.1	1001.4	1000.8	1001.4	1002.1	1002.8	1003.4	1003.4	1002.8	1002.1
152.5°	1029.1	1028.2	1027.4	1026.5	1027.4	1028.2	1029.1	1030.0	1030.0	1029.1	1028.2
155°	1063.2	1062.6	1061.9	1061.2	1061.9	1062.6	1063.2	1063.9	1063.7	1062.6	1061.5
157.5°	1094.3	1093.2	1092.1	1091.1	1092.1	1093.2	1094.3	1095.3	1095.1	1093.6	1092.1
160°	1112.3	1111.4	1110.4	1109.5	1110.4	1111.4	1112.3	1113.2	1113.0	1111.6	1110.2
162.5°	1128.9	1127.8	1126.8	1125.7	1126.8	1127.8	1128.9	1130.0	1129.7	1128.2	1126.7
165°	1150.2	1149.1	1148.0	1146.9	1148.0	1149.1	1150.2	1151.3	1151.1	1149.5	1148.0
167.5°	1167.7	1166.5	1165.4	1164.2	1165.4	1166.5	1167.7	1168.8	1168.6	1167.1	1165.5
170°	1177.1	1175.8	1174.4	1173.1	1174.4	1175.8	1177.1	1178.4	1178.3	1176.8	1175.2
172.5°	1184.4	1183.1	1181.6	1180.3	1181.6	1183.1	1184.4	1185.7	1185.6	1184.1	1182.5
175°	1192.2	1190.8	1189.5	1188.2	1189.5	1190.8	1192.2	1193.6	1193.5	1191.8	1190.3
177.5°	1195.1	1194.0	1192.9	1191.8	1192.9	1194.0	1195.1	1196.1	1196.1	1195.1	1194.0
180°	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1675.5	1681.4	1690.5	1700.2	1706.1	1717.3	1720.5	1725.9	1730.7	1742.0	1753.7
5°	1578.7	1588.1	1610.2	1622.2	1639.0	1658.5	1671.2	1684.7	1699.4	1724.8	1748.3
7.5°	1475.0	1490.7	1518.1	1540.7	1564.5	1592.5	1612.6	1639.0	1661.0	1697.0	1731.2
10°	1405.8	1427.9	1452.8	1479.6	1513.1	1542.6	1570.7	1604.2	1631.0	1673.9	1714.1
12.5°	1343.6	1347.1	1382.5	1412.0	1457.8	1494.3	1526.7	1569.9	1596.2	1647.1	1689.4
15°	1235.0	1255.1	1287.3	1310.7	1364.9	1411.2	1456.8	1501.7	1531.9	1594.8	1650.4
17.5°	1143.5	1162.0	1194.9	1233.3	1272.3	1318.4	1377.4	1424.6	1465.6	1537.6	1603.4
20°	1085.5	1108.3	1141.9	1181.3	1215.6	1265.8	1316.8	1371.0	1415.2	1496.3	1573.4
22.5°	1036.2	1054.2	1081.3	1120.2	1157.6	1203.7	1259.4	1318.5	1364.8	1452.4	1530.5
25°	966.9	981.7	999.1	1031.3	1073.5	1123.8	1167.3	1232.3	1300.0	1381.7	1476.2
27.5°	904.5	914.9	930.4	958.7	991.4	1038.3	1086.7	1148.4	1216.5	1305.3	1404.9
30°	866.5	873.1	888.6	912.0	944.1	981.0	1030.0	1088.9	1158.6	1248.4	1347.6
32.5°	833.2	839.4	849.4	871.8	899.7	931.2	975.2	1034.2	1100.7	1188.9	1298.8
35°	783.4	788.0	796.8	814.9	830.2	861.1	898.0	951.5	1013.8	1098.3	1212.2
37.5°	733.7	740.0	745.4	753.1	772.8	793.1	825.2	870.4	931.6	1016.8	1125.4
40°	700.9	706.3	714.3	717.7	733.8	751.8	778.0	819.5	881.2	958.9	1064.8
42.5°	667.7	673.1	677.8	681.8	695.7	711.7	735.1	770.7	825.5	901.0	1005.8
45°	622.5	623.2	627.8	635.2	642.0	653.4	670.0	700.9	743.2	814.2	909.3
47.5°	576.6	577.4	578.2	581.5	588.9	599.2	610.4	635.4	673.2	729.8	822.4
50°	546.1	544.8	546.1	548.8	553.5	562.2	574.9	593.0	623.9	676.8	761.9
52.5°	516.6	516.3	515.5	516.6	520.3	526.2	535.2	550.7	578.2	626.9	701.9
55°	471.7	468.4	469.1	466.4	472.4	473.7	480.5	493.2	517.4	550.8	621.2
57.5°	423.9	421.1	418.2	417.4	416.8	420.4	425.8	435.9	454.3	483.6	540.8
60°	393.3	390.0	386.0	384.7	384.7	386.7	389.3	396.7	414.1	440.3	487.2
62.5°	362.2	358.4	356.0	352.4	351.4	353.5	356.1	361.3	374.0	398.4	438.9
65°	314.3	309.6	306.2	305.6	304.3	302.3	303.6	308.9	318.9	338.4	370.5
67.5°	266.2	261.8	260.9	257.0	255.2	255.4	255.2	259.7	265.8	282.6	306.5
70°	234.5	231.2	229.8	226.5	225.2	223.8	222.5	226.5	232.6	246.6	267.4
72.5°	202.4	199.5	196.6	193.8	194.1	192.7	192.5	194.9	199.9	212.8	228.7
75°	156.1	156.8	153.5	150.1	149.5	148.0	148.0	150.1	152.1	162.2	174.9
77.5°	113.2	112.7	109.9	108.9	108.2	106.6	108.2	109.5	110.6	117.2	126.6
80°	86.4	86.4	83.1	83.1	82.4	80.4	82.4	81.1	83.7	90.5	97.1
82.5°	61.8	60.7	60.6	59.5	59.4	57.9	58.9	60.2	61.2	65.8	69.8
85°	30.2	30.2	29.5	28.8	29.5	28.8	29.5	30.2	30.8	32.8	36.2
87.5°	13.4	14.0	13.5	13.1	12.1	11.7	11.5	11.5	12.0	12.0	12.0
90°	34.8	35.2	30.3	25.4	20.5	15.6	11.7	9.1	6.4	3.7	1.0
92.5°	32.1	32.0	30.9	29.7	28.6	27.4	25.9	23.8	21.9	19.9	18.0
95°	64.5	64.5	64.0	63.6	63.1	62.7	61.4	59.1	56.9	54.6	52.4
97.5°	108.5	108.5	107.6	106.7	105.9	105.0	103.6	101.7	99.7	97.8	95.7
100°	139.1	139.1	138.5	137.7	137.0	136.4	135.1	133.4	131.6	129.8	127.9
102.5°	172.3	172.2	171.3	170.5	169.6	168.7	167.5	166.1	164.7	163.3	161.9
105°	222.2	221.7	221.3	220.9	220.4	219.9	219.3	218.7	218.0	217.3	216.7
107.5°	276.5	276.3	276.3	276.3	276.3	276.3	275.9	274.9	273.9	272.9	271.9
110°	313.5	313.5	313.5	313.5	313.5	313.5	312.8	311.4	310.0	308.7	307.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	350.8	351.3	351.5	351.6	351.8	352.0	351.4	350.1	348.8	347.4	346.1
115°	407.0	407.2	407.6	408.1	408.5	408.9	408.5	407.2	405.8	404.5	403.1
117.5°	461.8	462.4	463.6	464.8	466.2	467.4	467.2	465.3	463.5	461.7	460.0
120°	497.9	497.9	499.7	501.4	503.2	505.0	505.0	503.2	501.4	499.7	497.9
122.5°	536.0	536.5	537.9	539.1	540.3	541.6	541.1	539.0	536.8	534.6	532.5
125°	591.9	592.6	593.3	593.9	594.6	595.3	594.6	592.6	590.6	588.5	586.5
127.5°	646.2	647.0	647.8	648.6	649.4	650.3	649.3	646.8	644.3	641.7	639.1
130°	682.9	683.3	683.8	684.2	684.6	685.1	683.9	681.0	678.0	675.1	672.2
132.5°	719.4	720.3	720.2	720.2	720.1	720.0	718.8	716.4	714.1	711.7	709.3
135°	771.7	771.9	771.5	771.0	770.6	770.2	768.7	766.3	763.8	761.3	758.9
137.5°	822.6	822.7	822.2	821.6	821.0	820.4	819.1	817.1	815.1	813.0	811.1
140°	856.7	856.7	855.6	854.3	853.2	852.1	850.6	848.6	846.6	844.6	842.5
142.5°	887.5	887.3	886.5	885.8	884.9	884.2	882.8	880.8	878.8	876.8	874.7
145°	934.4	934.2	932.9	931.5	930.2	928.9	927.4	925.8	924.2	922.7	921.1
147.5°	975.4	974.9	974.0	973.1	972.3	971.4	970.0	968.1	966.2	964.3	962.4
150°	1001.4	1000.8	999.9	999.0	998.0	997.1	996.0	994.7	993.3	992.0	990.7
152.5°	1027.4	1026.5	1025.4	1024.4	1023.3	1022.3	1021.1	1019.7	1018.3	1017.0	1015.6
155°	1060.4	1059.1	1058.5	1057.8	1057.2	1056.5	1055.8	1055.2	1054.5	1053.8	1053.2
157.5°	1090.6	1089.0	1088.6	1088.2	1087.8	1087.4	1087.0	1086.5	1086.1	1085.6	1085.2
160°	1108.9	1107.5	1107.3	1107.1	1106.9	1106.7	1106.3	1105.9	1105.4	1105.0	1104.6
162.5°	1125.2	1123.7	1123.5	1123.3	1123.1	1122.8	1122.7	1122.6	1122.5	1122.4	1122.3
165°	1146.4	1144.9	1144.9	1144.9	1144.9	1144.9	1145.0	1145.2	1145.4	1145.7	1145.9
167.5°	1164.0	1162.4	1162.5	1162.5	1162.6	1162.6	1163.0	1163.6	1164.3	1165.0	1165.6
170°	1173.7	1172.0	1172.3	1172.6	1172.8	1173.0	1173.4	1174.1	1174.8	1175.4	1176.1
172.5°	1180.9	1179.3	1179.5	1179.7	1180.0	1180.2	1180.6	1181.3	1182.0	1182.7	1183.4
175°	1188.7	1187.2	1187.6	1188.1	1188.5	1189.0	1189.5	1190.2	1190.8	1191.5	1192.2
177.5°	1192.9	1191.8	1192.1	1192.5	1192.9	1193.3	1193.7	1194.3	1194.8	1195.3	1195.9
180°	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1752.7	1755.3	1763.9	1772.5	1782.2	1784.8	1789.2	1785.4	1784.3	1794.5	1802.0
5°	1757.7	1769.7	1793.2	1814.6	1832.7	1845.4	1858.9	1864.2	1874.2	1888.3	1905.7
7.5°	1752.0	1775.4	1812.3	1843.6	1877.6	1902.1	1921.3	1937.6	1957.5	1984.2	2013.3
10°	1745.6	1777.1	1822.0	1860.2	1901.7	1933.2	1959.3	1984.8	2014.3	2051.1	2089.3
12.5°	1733.8	1771.2	1827.4	1872.5	1925.8	1956.8	1992.1	2047.0	2078.6	2130.0	2183.7
15°	1710.1	1751.6	1830.0	1885.6	1945.9	2004.9	2069.9	2122.2	2174.4	2204.6	2280.4
17.5°	1674.9	1735.9	1822.6	1887.5	1964.2	2057.1	2130.1	2189.3	2249.7	2298.6	2336.5
20°	1646.4	1712.7	1811.9	1889.7	1980.7	2080.6	2164.4	2224.7	2276.9	2317.8	2341.3
22.5°	1610.5	1693.9	1790.5	1881.6	1997.9	2096.7	2184.7	2232.2	2275.9	2295.8	2304.8
25°	1554.0	1654.5	1763.7	1874.9	2006.3	2110.8	2191.2	2220.0	2232.7	2213.3	2181.1
27.5°	1493.0	1605.0	1732.7	1862.3	2001.1	2101.6	2159.3	2154.7	2133.1	2070.3	2020.0
30°	1447.4	1570.7	1708.1	1849.5	1988.8	2086.7	2120.2	2086.7	2037.7	1967.4	1895.7
32.5°	1399.7	1527.3	1681.8	1831.2	1966.3	2052.3	2059.6	2002.0	1926.2	1846.2	1756.9
35°	1327.5	1465.5	1632.3	1790.5	1918.4	1972.8	1940.6	1838.8	1749.0	1639.7	1517.7
37.5°	1245.9	1398.3	1565.6	1730.8	1846.7	1861.0	1781.1	1673.9	1547.2	1418.9	1275.4
40°	1184.8	1346.3	1518.4	1685.3	1787.8	1773.0	1671.2	1553.3	1402.5	1245.7	1112.4
42.5°	1130.0	1291.5	1466.9	1630.6	1712.7	1672.2	1553.3	1408.6	1246.5	1098.8	976.7
45°	1035.3	1201.4	1381.1	1539.2	1586.1	1513.1	1355.6	1194.8	1035.3	912.0	815.5
47.5°	943.3	1107.6	1285.5	1424.5	1441.1	1342.8	1170.7	1005.3	868.2	767.8	699.7
50°	875.9	1040.7	1216.9	1340.9	1335.4	1216.9	1040.0	882.5	767.9	686.8	641.3
52.5°	815.3	971.0	1140.2	1252.9	1224.6	1095.2	926.3	786.6	692.4	628.9	587.6
55°	721.0	865.1	1025.9	1116.4	1064.1	920.7	778.0	665.4	595.7	548.2	515.9
57.5°	627.4	762.5	900.2	955.9	898.2	765.8	646.8	565.1	512.7	477.5	456.6
60°	569.6	687.5	810.1	858.4	789.4	671.5	577.6	504.6	462.3	433.5	414.8
62.5°	511.7	617.3	733.0	759.2	696.1	596.4	513.3	452.6	417.9	392.2	374.6
65°	432.9	519.3	607.1	624.5	566.2	489.2	423.5	384.0	353.1	334.4	320.3
67.5°	355.0	424.4	486.7	500.7	449.6	396.2	348.7	314.3	293.4	277.8	265.9
70°	308.9	363.9	414.8	426.2	385.3	337.7	301.5	274.1	255.3	241.9	230.6
72.5°	260.1	306.0	348.3	356.0	322.6	286.3	256.5	234.9	218.3	209.7	198.8
75°	199.0	225.8	258.6	260.6	238.5	216.4	193.7	179.6	170.9	160.2	154.8
77.5°	140.5	161.5	180.3	183.9	170.8	155.7	143.0	131.9	124.5	119.6	114.6
80°	107.2	124.0	132.0	136.7	127.3	116.6	109.3	101.9	97.1	93.8	90.5
82.5°	76.6	86.9	94.5	98.1	93.0	86.5	79.2	75.0	71.4	68.6	67.5
85°	38.9	43.5	48.3	49.6	48.3	45.5	41.5	41.5	39.5	38.9	38.9
87.5°	14.1	16.9	17.4	19.5	19.2	20.2	21.2	21.6	22.0	21.4	20.8
90°	3.7	6.4	9.1	11.7	15.6	20.5	25.4	30.3	35.2	34.8	34.3
92.5°	19.9	21.9	23.8	25.9	27.4	28.6	29.7	30.9	32.0	32.1	32.2
95°	54.6	56.9	59.1	61.4	62.7	63.1	63.6	64.0	64.5	64.5	64.5
97.5°	97.8	99.7	101.7	103.6	105.0	105.9	106.7	107.6	108.5	108.5	108.5
100°	129.8	131.6	133.4	135.1	136.4	137.0	137.7	138.5	139.1	139.1	139.1
102.5°	163.3	164.7	166.1	167.5	168.7	169.6	170.5	171.3	172.2	172.3	172.5
105°	217.3	218.0	218.7	219.3	219.9	220.4	220.9	221.3	221.7	222.2	222.6
107.5°	272.9	273.9	274.9	275.9	276.3	276.3	276.3	276.3	276.3	276.5	276.7
110°	308.7	310.0	311.4	312.8	313.5	313.5	313.5	313.5	313.5	313.5	313.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	347.4	348.8	350.1	351.4	352.0	351.8	351.6	351.5	351.3	350.8	350.2
115°	404.5	405.8	407.2	408.5	408.9	408.5	408.1	407.6	407.2	407.0	406.7
117.5°	461.7	463.5	465.3	467.2	467.4	466.2	464.8	463.6	462.4	461.8	461.3
120°	499.7	501.4	503.2	505.0	505.0	503.2	501.4	499.7	497.9	497.9	497.9
122.5°	534.6	536.8	539.0	541.1	541.6	540.3	539.1	537.9	536.5	536.0	535.4
125°	588.5	590.6	592.6	594.6	595.3	594.6	593.9	593.3	592.6	591.9	591.3
127.5°	641.7	644.3	646.8	649.3	650.3	649.4	648.6	647.8	647.0	646.2	645.4
130°	675.1	678.0	681.0	683.9	685.1	684.6	684.2	683.8	683.3	682.9	682.4
132.5°	711.7	714.1	716.4	718.8	720.0	720.1	720.2	720.2	720.3	719.4	718.4
135°	761.3	763.8	766.3	768.7	770.2	770.6	771.0	771.5	771.9	771.7	771.5
137.5°	813.0	815.1	817.1	819.1	820.4	821.0	821.6	822.2	822.7	822.6	822.4
140°	844.6	846.6	848.6	850.6	852.1	853.2	854.3	855.6	856.7	856.7	856.7
142.5°	876.8	878.8	880.8	882.8	884.2	884.9	885.8	886.5	887.3	887.5	887.7
145°	922.7	924.2	925.8	927.4	928.9	930.2	931.5	932.9	934.2	934.4	934.6
147.5°	964.3	966.2	968.1	970.0	971.4	972.3	973.1	974.0	974.9	975.4	975.9
150°	992.0	993.3	994.7	996.0	997.1	998.0	999.0	999.9	1000.8	1001.4	1002.1
152.5°	1017.0	1018.3	1019.7	1021.1	1022.3	1023.3	1024.4	1025.4	1026.5	1027.4	1028.2
155°	1053.8	1054.5	1055.2	1055.8	1056.5	1057.2	1057.8	1058.5	1059.1	1060.4	1061.5
157.5°	1085.6	1086.1	1086.5	1087.0	1087.4	1087.8	1088.2	1088.6	1089.0	1090.6	1092.1
160°	1105.0	1105.4	1105.9	1106.3	1106.7	1106.9	1107.1	1107.3	1107.5	1108.9	1110.2
162.5°	1122.4	1122.5	1122.6	1122.7	1122.8	1123.1	1123.3	1123.5	1123.7	1125.2	1126.7
165°	1145.7	1145.4	1145.2	1145.0	1144.9	1144.9	1144.9	1144.9	1144.9	1146.4	1148.0
167.5°	1165.0	1164.3	1163.6	1163.0	1162.6	1162.6	1162.5	1162.5	1162.4	1164.0	1165.5
170°	1175.4	1174.8	1174.1	1173.4	1173.0	1172.8	1172.6	1172.3	1172.0	1173.7	1175.2
172.5°	1182.7	1182.0	1181.3	1180.6	1180.2	1180.0	1179.7	1179.5	1179.3	1180.9	1182.5
175°	1191.5	1190.8	1190.2	1189.5	1189.0	1188.5	1188.1	1187.6	1187.2	1188.7	1190.3
177.5°	1195.3	1194.8	1194.3	1193.7	1193.3	1192.9	1192.5	1192.1	1191.8	1192.9	1194.0
180°	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1808.5	1815.9	1815.9	1817.1	1825.6	1824.5	1824.0
5°	1924.5	1935.9	1937.2	1949.3	1957.3	1954.7	1947.3
7.5°	2034.0	2055.2	2071.2	2080.2	2090.8	2097.4	2094.5
10°	2120.8	2151.6	2170.4	2183.1	2198.6	2210.0	2205.9
12.5°	2199.7	2236.3	2262.1	2283.9	2285.9	2300.6	2290.7
15°	2322.6	2361.4	2365.4	2381.5	2394.3	2392.9	2393.6
17.5°	2363.2	2375.6	2378.1	2378.5	2378.7	2374.0	2363.8
20°	2348.6	2344.0	2332.6	2323.9	2308.5	2306.4	2293.1
22.5°	2280.1	2265.2	2236.6	2217.8	2193.7	2187.5	2183.7
25°	2145.0	2112.1	2066.6	2023.0	2010.9	1987.5	1994.2
27.5°	1959.6	1908.4	1859.1	1823.7	1791.7	1756.6	1766.7
30°	1829.4	1771.7	1702.0	1648.4	1614.3	1580.7	1574.7
32.5°	1673.9	1589.4	1511.8	1464.5	1412.2	1391.0	1367.8
35°	1405.8	1323.4	1246.4	1180.0	1141.9	1112.4	1085.5
37.5°	1164.8	1069.9	1007.6	953.9	926.3	909.5	913.7
40°	1015.2	932.1	886.6	845.7	820.2	808.1	810.8
42.5°	894.0	831.8	794.4	766.3	748.3	741.6	740.0
45°	756.5	721.6	690.8	674.8	666.1	658.7	654.0
47.5°	662.7	634.3	616.9	607.3	599.8	592.2	592.1
50°	606.4	587.6	575.6	565.5	559.6	554.2	558.9
52.5°	563.5	546.4	534.3	525.3	523.1	518.3	518.2
55°	499.9	486.5	477.8	469.7	465.7	463.0	459.7
57.5°	442.0	429.3	421.2	416.2	408.5	405.8	404.8
60°	400.7	390.6	382.6	375.9	372.5	367.2	367.2
62.5°	362.6	352.6	345.1	340.0	334.5	332.3	333.0
65°	307.6	299.5	292.2	286.8	285.5	281.4	282.8
67.5°	256.9	251.6	243.8	240.9	238.3	236.1	234.5
70°	223.2	217.8	213.8	209.7	207.7	207.7	207.7
72.5°	194.7	188.3	185.9	180.8	182.0	179.9	177.7
75°	150.8	146.7	144.7	142.7	139.4	139.4	139.4
77.5°	111.0	109.8	107.3	105.2	104.4	103.7	104.0
80°	85.7	85.1	83.7	83.7	82.4	81.8	80.4
82.5°	65.9	64.2	63.4	62.8	62.6	62.4	62.2
85°	37.6	36.2	36.2	36.9	35.5	35.5	36.2
87.5°	21.3	21.2	20.6	20.7	21.2	20.7	20.8
90°	33.9	33.5	33.3	33.6	33.8	34.0	34.2
92.5°	32.3	32.4	32.5	32.5	32.5	32.6	32.6
95°	64.5	64.5	64.2	63.8	63.4	62.9	62.5
97.5°	108.5	108.5	108.5	108.4	108.4	108.3	108.3
100°	139.1	139.1	139.0	138.8	138.6	138.3	138.0
102.5°	172.7	172.9	172.8	172.6	172.4	172.2	172.0
105°	223.1	223.5	223.7	223.7	223.7	223.7	223.7
107.5°	276.9	277.0	276.6	275.6	274.6	273.6	272.5
110°	313.5	313.5	313.1	312.5	311.7	311.0	310.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	349.7	349.2	348.6	348.2	347.7	347.2	346.7
115°	406.5	406.3	405.8	405.2	404.5	403.7	403.1
117.5°	460.8	460.2	459.6	459.0	458.3	457.6	457.0
120°	497.9	497.9	497.6	496.9	496.1	495.5	494.8
122.5°	534.9	534.4	533.9	533.4	532.9	532.4	531.9
125°	590.6	589.9	589.5	589.3	589.0	588.8	588.5
127.5°	644.6	643.8	643.0	642.3	641.6	640.9	640.2
130°	682.0	681.5	680.9	679.9	679.0	678.1	677.2
132.5°	717.4	716.4	715.6	714.9	714.2	713.5	712.8
135°	771.3	771.0	770.6	769.9	769.3	768.6	767.9
137.5°	822.2	822.0	821.5	820.6	819.7	818.8	817.9
140°	856.7	856.7	856.2	855.3	854.3	853.5	852.6
142.5°	887.8	888.0	887.7	886.8	885.9	884.9	884.0
145°	934.9	935.1	934.8	933.9	933.0	932.1	931.2
147.5°	976.4	976.9	976.7	975.9	975.0	974.2	973.3
150°	1002.8	1003.4	1003.4	1002.8	1002.1	1001.4	1000.8
152.5°	1029.1	1030.0	1030.0	1029.1	1028.2	1027.4	1026.5
155°	1062.6	1063.7	1063.9	1063.2	1062.6	1061.9	1061.2
157.5°	1093.6	1095.1	1095.3	1094.3	1093.2	1092.1	1091.1
160°	1111.6	1113.0	1113.2	1112.3	1111.4	1110.4	1109.5
162.5°	1128.2	1129.7	1130.0	1128.9	1127.8	1126.8	1125.7
165°	1149.5	1151.1	1151.3	1150.2	1149.1	1148.0	1146.9
167.5°	1167.1	1168.6	1168.8	1167.7	1166.5	1165.4	1164.2
170°	1176.8	1178.3	1178.4	1177.1	1175.8	1174.4	1173.1
172.5°	1184.1	1185.6	1185.7	1184.4	1183.1	1181.6	1180.3
175°	1191.8	1193.5	1193.6	1192.2	1190.8	1189.5	1188.2
177.5°	1195.1	1196.1	1196.1	1195.1	1194.0	1192.9	1191.8
180°	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3

(END OF REPORT)