

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: P331598-940

Luminaire Tested: **S122DIW-S1005D970U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331598-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S1005D970U940-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 970 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6919.8 lumens
Efficiency: N/A
Efficacy: 102.7 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

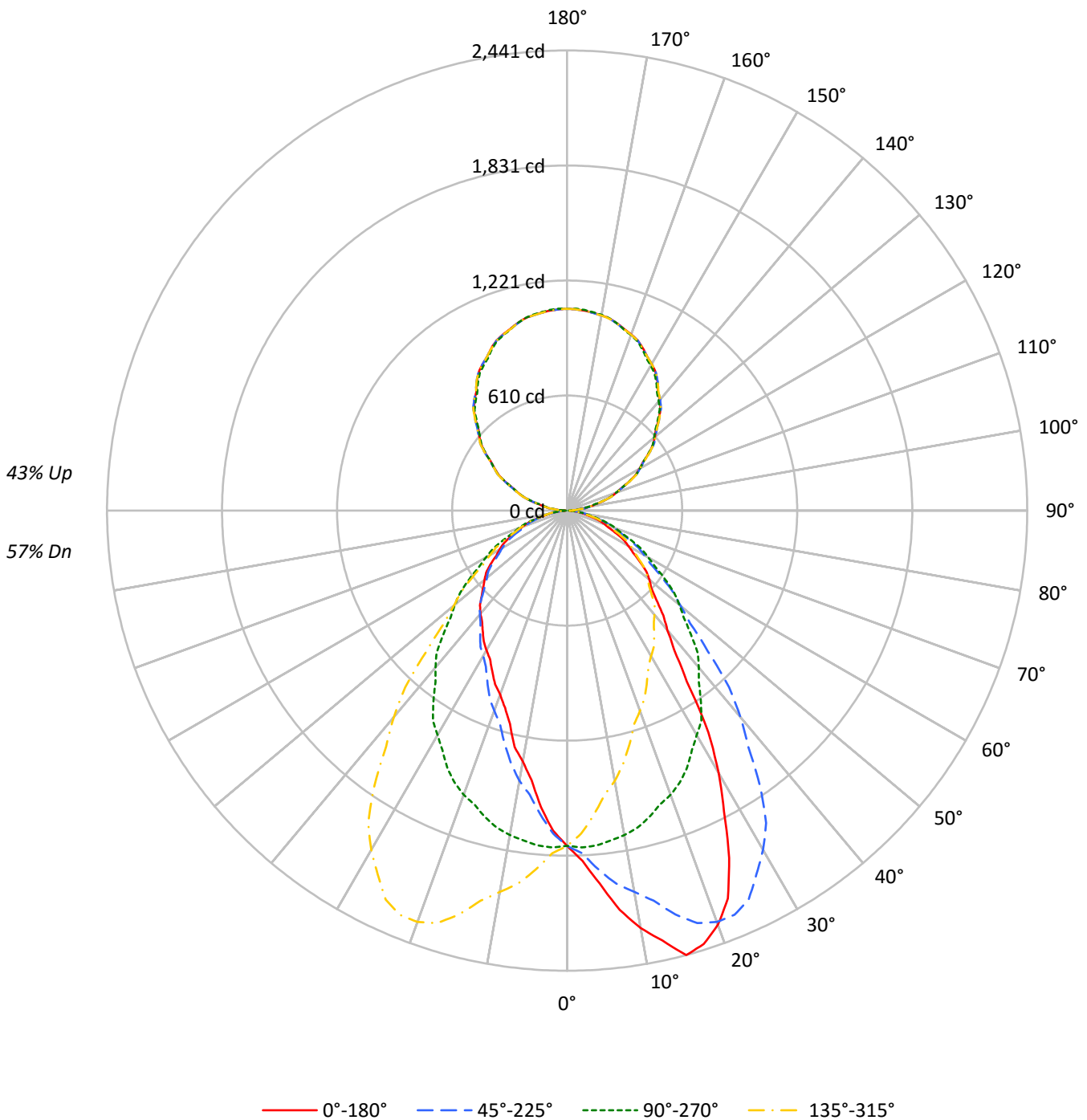
Input Watts (W): 67.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	57
1	100	96	92	89	93	89	86	83	77	75	73	66	64	63	56	55	54	49
2	91	84	78	73	85	79	73	69	68	64	61	59	56	53	50	48	46	42
3	84	74	67	62	78	70	63	58	61	56	52	52	49	46	45	42	40	36
4	77	66	59	53	71	62	55	50	54	49	45	47	43	40	40	37	35	31
5	71	59	51	46	66	56	49	43	49	43	39	43	38	35	37	33	31	28
6	65	54	46	40	61	50	43	38	44	39	34	39	34	31	33	30	27	25
7	61	49	41	35	56	46	39	34	40	35	31	35	31	28	31	27	25	22
8	56	44	37	31	53	42	35	30	37	31	27	33	28	25	28	25	22	20
9	53	41	33	28	49	38	32	27	34	29	25	30	26	22	26	23	20	18
10	49	37	30	25	46	35	29	24	32	26	22	28	23	20	24	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	28709	28709	28709	28709
5°	32185	28896	25606	28896
10°	36882	28658	22161	28658
15°	40802	28134	19579	28134
20°	40180	27569	17849	27569
25°	36230	26820	16751	26820
30°	29940	25620	15951	25620
35°	21821	24366	15382	24366
40°	17428	22885	15066	22885
45°	15230	21174	14636	21174
50°	14315	19515	14350	19515
55°	13196	17833	13965	17833
60°	12093	16043	13372	16043
65°	11018	14437	12791	14437
70°	10003	12873	11939	12873
75°	8865	11123	10574	11123
80°	7624	9214	8517	9214
85°	6836	6836	5076	6836



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.3	2.4
10°-20°	492.3	7.1
20°-30°	714.5	10.3
30°-40°	754.0	10.9
40°-50°	667.6	9.6
50°-60°	532.7	7.7
60°-70°	362.1	5.2
70°-80°	185.6	2.7
80°-90°	49.0	0.7
90°-100°	67.8	1.0
100°-110°	210.6	3.0
110°-120°	360.0	5.2
120°-130°	473.5	6.8
130°-140°	531.4	7.7
140°-150°	521.1	7.5
150°-160°	437.0	6.3
160°-170°	289.9	4.2
170°-180°	101.3	1.5
0°-30°	1376.1	19.9
0°-40°	2130.1	30.8
0°-60°	3330.4	48.1
0°-90°	3927.2	56.8
90°-120°	638.5	9.2
90°-150°	2164.4	31.3
90°-180°	2993.0	43.3
0°-180°	6919.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1778	1778	1778	1778	1778	
5°	1986	1783	1580	1783	1986	198
15°	2441	1683	1171	1683	2441	674
25°	2034	1506	940	1506	2034	919
35°	1107	1236	780	1236	1107	720
45°	667	927	641	927	667	524
55°	469	634	496	634	469	420
65°	288	378	335	378	288	287
75°	142	178	170	178	142	152
85°	37	37	27	37	37	41
90°	31	1	31	1	31	15
95°	56	47	56	47	56	62
105°	200	194	200	194	200	211
115°	361	361	361	361	361	357
125°	527	526	527	526	527	470
135°	688	680	688	680	688	530
145°	835	826	835	826	835	521
155°	951	944	951	944	951	438
165°	1028	1027	1028	1027	1028	290
175°	1065	1068	1065	1068	1065	101
180°	1070	1070	1070	1070	1070	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1860.1	1860.6	1861.7	1853.0	1851.9	1851.9	1844.2	1837.7	1830.1	1819.6	1820.8
5°	1985.8	1993.3	1996.1	1987.9	1975.6	1974.2	1962.7	1943.5	1925.7	1911.4	1901.1
7.5°	2135.9	2138.9	2132.3	2121.5	2112.3	2095.9	2074.3	2053.1	2023.5	1996.3	1976.0
10°	2249.6	2253.7	2242.1	2226.4	2213.4	2194.3	2162.8	2130.7	2091.8	2054.2	2024.1
12.5°	2336.0	2346.1	2331.2	2329.1	2306.9	2280.6	2243.2	2227.0	2172.1	2119.8	2087.6
15°	2441.0	2440.3	2441.7	2428.7	2412.3	2408.2	2368.6	2325.5	2248.3	2217.5	2164.2
17.5°	2410.7	2421.0	2425.8	2425.6	2425.3	2422.7	2409.9	2382.7	2344.0	2294.2	2232.7
20°	2338.5	2352.2	2354.2	2369.9	2378.8	2390.4	2395.2	2387.6	2363.7	2322.1	2268.8
22.5°	2227.0	2230.8	2237.2	2261.6	2280.9	2310.1	2325.2	2350.5	2341.4	2320.9	2276.4
25°	2033.7	2026.9	2050.8	2063.1	2107.5	2153.9	2187.5	2224.4	2257.2	2277.0	2264.0
27.5°	1801.6	1791.4	1827.2	1859.8	1896.0	1946.2	1998.4	2060.0	2111.3	2175.4	2197.4
30°	1605.9	1612.0	1646.2	1681.1	1735.7	1806.8	1865.5	1933.2	2006.3	2078.1	2128.0
32.5°	1394.9	1418.5	1440.1	1493.5	1541.7	1621.0	1707.0	1791.6	1882.8	1964.4	2041.7
35°	1107.1	1134.3	1164.5	1203.4	1271.0	1349.6	1433.7	1547.8	1672.2	1783.6	1875.2
37.5°	931.8	927.5	944.7	972.9	1027.6	1091.1	1187.8	1300.6	1447.0	1577.9	1707.0
40°	826.9	824.1	836.4	862.4	904.1	950.6	1035.3	1134.3	1270.3	1430.3	1584.0
42.5°	754.7	756.3	763.2	781.5	810.0	848.3	911.8	996.0	1120.6	1271.2	1436.5
45°	667.0	671.7	679.3	688.1	704.5	736.0	771.5	831.7	930.1	1055.8	1218.4
47.5°	603.8	604.0	611.6	619.4	629.1	646.8	675.8	713.5	783.0	885.4	1025.2
50°	569.9	565.2	570.6	576.8	587.0	599.3	618.4	654.0	700.4	783.1	900.0
52.5°	528.3	528.5	533.4	535.7	544.9	557.2	574.7	599.3	641.4	706.1	802.1
55°	468.8	472.2	474.9	479.0	487.2	496.1	509.8	526.2	559.0	607.5	678.6
57.5°	412.8	413.8	416.6	424.4	429.5	437.7	450.8	465.7	487.0	522.9	576.3
60°	374.5	374.5	380.0	383.3	390.2	398.4	408.7	423.0	442.1	471.5	514.6
62.5°	339.5	338.9	341.2	346.7	352.0	359.6	369.8	382.0	400.0	426.1	461.5
65°	288.4	287.0	291.1	292.5	297.9	305.5	313.7	326.6	341.0	360.2	391.6
67.5°	239.2	240.9	243.0	245.6	248.6	256.5	262.0	271.2	283.3	299.2	320.5
70°	211.9	211.9	211.9	213.9	218.0	222.1	227.6	235.1	246.7	260.4	279.5
72.5°	181.2	183.4	185.6	184.4	189.6	192.0	198.6	202.9	213.9	222.7	239.6
75°	142.1	142.1	142.1	145.5	147.6	149.6	153.7	157.8	163.4	174.2	183.2
77.5°	106.0	105.8	106.5	107.3	109.5	111.9	113.2	116.8	121.9	127.0	134.5
80°	82.0	83.4	84.1	85.4	85.4	86.8	87.5	92.3	95.7	99.1	103.9
82.5°	63.4	63.7	63.8	64.1	64.6	65.5	67.2	68.8	70.0	72.9	76.5
85°	36.9	36.2	36.2	37.5	36.9	36.9	38.3	39.6	39.6	40.3	42.4
87.5°	20.3	20.3	20.9	20.2	20.2	20.8	20.9	20.4	21.0	21.7	21.3
90°	30.7	30.5	30.3	30.1	29.9	30.0	30.4	30.8	31.2	31.6	27.2
92.5°	29.2	29.2	29.2	29.2	29.1	29.1	29.0	28.9	28.8	28.7	27.6
95°	56.0	56.4	56.8	57.2	57.6	57.8	57.8	57.8	57.8	57.8	57.4
97.5°	97.0	97.0	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	96.4
100°	123.8	123.9	124.1	124.3	124.6	124.7	124.7	124.7	124.7	124.7	124.0
102.5°	154.1	154.3	154.4	154.7	154.9	154.9	154.7	154.6	154.4	154.3	153.5
105°	200.5	200.5	200.5	200.5	200.5	200.3	199.9	199.5	199.1	198.7	198.3
107.5°	244.2	245.1	246.0	247.0	247.9	248.3	248.2	248.0	247.8	247.6	247.6
110°	278.2	278.7	279.4	280.0	280.6	280.9	280.9	280.9	280.9	280.9	280.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	310.7	311.1	311.6	312.0	312.5	312.9	313.4	313.9	314.3	314.9	315.0
115°	361.2	361.9	362.5	363.1	363.6	364.1	364.3	364.4	364.7	364.9	365.2
117.5°	409.5	410.1	410.7	411.3	411.9	412.4	413.0	413.4	413.9	414.4	415.5
120°	443.4	444.1	444.7	445.2	445.9	446.2	446.2	446.2	446.2	446.2	447.8
122.5°	476.7	477.2	477.6	478.0	478.5	478.9	479.4	479.9	480.4	480.8	482.0
125°	527.4	527.6	527.9	528.1	528.2	528.7	529.2	529.9	530.5	531.1	531.6
127.5°	573.7	574.4	575.0	575.6	576.2	576.9	577.7	578.4	579.1	579.9	580.6
130°	606.9	607.7	608.5	609.3	610.1	610.7	611.2	611.5	612.0	612.3	612.8
132.5°	638.7	639.4	640.0	640.7	641.3	642.0	642.9	643.8	644.7	645.6	645.5
135°	688.2	688.8	689.4	690.0	690.6	691.0	691.3	691.4	691.6	691.8	691.4
137.5°	733.0	733.8	734.6	735.4	736.2	736.7	736.9	737.0	737.2	737.4	736.8
140°	764.1	764.9	765.7	766.5	767.3	767.7	767.7	767.7	767.7	767.7	766.7
142.5°	792.3	793.1	793.9	794.7	795.5	795.8	795.7	795.5	795.3	795.1	794.5
145°	834.6	835.4	836.2	837.0	837.8	838.0	837.9	837.7	837.4	837.2	836.1
147.5°	872.3	873.1	873.8	874.6	875.3	875.5	875.0	874.6	874.1	873.7	872.9
150°	896.9	897.4	898.0	898.7	899.3	899.3	898.7	898.0	897.4	896.9	896.1
152.5°	920.0	920.7	921.5	922.3	923.0	923.0	922.3	921.5	920.7	920.0	919.0
155°	951.0	951.6	952.3	952.9	953.4	953.2	952.3	951.3	950.2	949.2	948.6
157.5°	977.8	978.7	979.7	980.7	981.6	981.4	980.1	978.7	977.3	976.0	975.6
160°	994.4	995.2	996.0	996.8	997.6	997.4	996.2	995.0	993.8	992.6	992.4
162.5°	1008.9	1009.8	1010.8	1011.7	1012.7	1012.5	1011.1	1009.8	1008.4	1007.0	1006.8
165°	1027.8	1028.9	1029.8	1030.8	1031.8	1031.6	1030.2	1028.9	1027.4	1026.0	1026.0
167.5°	1043.4	1044.4	1045.4	1046.5	1047.5	1047.3	1046.0	1044.6	1043.1	1041.7	1041.8
170°	1051.3	1052.5	1053.7	1054.9	1056.1	1056.1	1054.6	1053.2	1051.8	1050.4	1050.6
172.5°	1057.8	1059.0	1060.2	1061.4	1062.7	1062.5	1061.1	1059.7	1058.3	1056.9	1057.1
175°	1064.9	1066.0	1067.3	1068.4	1069.7	1069.5	1068.2	1066.8	1065.3	1063.9	1064.3
177.5°	1068.1	1069.1	1070.1	1070.9	1071.9	1071.9	1070.9	1070.1	1069.1	1068.1	1068.4
180°	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1824.6	1820.2	1817.5	1807.7	1798.8	1790.1	1787.4	1788.5	1776.5	1765.0	1760.1
5°	1895.7	1882.0	1869.0	1850.6	1828.7	1804.7	1792.4	1782.9	1759.0	1733.0	1718.0
7.5°	1959.4	1939.8	1914.8	1880.1	1848.2	1810.6	1786.7	1765.5	1730.5	1693.9	1671.5
10°	1998.1	1971.5	1939.4	1897.0	1858.1	1812.3	1780.1	1748.0	1707.0	1663.3	1635.9
12.5°	2031.5	1995.6	1964.0	1909.6	1863.5	1806.2	1768.2	1722.9	1679.7	1627.7	1601.0
15°	2110.9	2044.6	1984.5	1923.0	1866.3	1786.3	1743.9	1683.1	1626.4	1562.2	1531.4
17.5°	2172.3	2097.7	2003.0	1924.9	1858.8	1770.2	1708.0	1635.1	1568.1	1494.7	1452.9
20°	2207.3	2121.8	2020.0	1927.1	1847.8	1746.7	1679.0	1604.5	1526.0	1443.2	1398.2
22.5°	2228.0	2138.2	2037.6	1918.9	1826.0	1727.5	1642.4	1560.8	1481.1	1391.9	1344.6
25°	2234.6	2152.6	2046.0	1912.1	1798.6	1687.2	1584.7	1505.5	1409.1	1325.7	1256.7
27.5°	2202.1	2143.3	2040.8	1899.2	1767.0	1636.8	1522.5	1432.7	1331.1	1240.5	1171.2
30°	2162.1	2128.0	2028.2	1886.1	1741.9	1601.8	1476.0	1374.2	1273.1	1181.5	1110.4
32.5°	2100.4	2093.0	2005.3	1867.5	1715.1	1557.6	1427.5	1324.5	1212.5	1122.5	1054.7
35°	1979.1	2011.8	1956.5	1826.0	1664.6	1494.5	1353.7	1236.2	1120.1	1033.9	970.4
37.5°	1816.4	1897.8	1883.4	1765.1	1596.6	1425.9	1270.5	1147.6	1037.0	950.0	887.7
40°	1704.3	1808.2	1823.2	1718.7	1548.5	1372.9	1208.2	1085.8	977.9	898.7	835.7
42.5°	1584.0	1705.4	1746.7	1662.9	1496.0	1317.1	1152.4	1025.7	918.8	841.8	786.0
45°	1382.4	1543.0	1617.6	1569.7	1408.5	1225.3	1055.8	927.3	830.3	757.9	714.8
47.5°	1194.0	1369.5	1469.6	1452.7	1311.0	1129.6	962.1	838.7	744.3	686.5	648.0
50°	1060.6	1241.0	1361.9	1367.4	1241.0	1061.2	893.1	776.9	690.2	636.2	604.8
52.5°	944.7	1116.9	1248.8	1277.7	1162.8	990.2	831.3	715.8	639.4	589.8	561.6
55°	793.4	939.0	1085.2	1138.4	1046.2	882.3	735.3	633.5	561.7	527.5	502.9
57.5°	659.6	781.0	916.0	974.9	918.0	777.7	639.9	551.4	493.3	463.3	444.4
60°	589.1	684.7	805.0	875.4	826.2	701.2	580.9	496.8	449.0	422.3	404.6
62.5°	523.4	608.2	709.9	774.3	747.4	629.5	521.8	447.6	406.4	381.3	368.5
65°	431.9	498.8	577.5	636.9	619.1	529.6	441.5	377.9	345.1	325.3	315.0
67.5°	355.6	404.0	458.5	510.6	496.2	432.8	362.0	312.5	288.1	271.0	264.8
70°	307.6	344.4	393.0	434.6	423.0	371.0	315.0	272.7	251.5	237.1	231.0
72.5°	261.6	291.9	329.0	363.0	355.2	312.0	265.3	233.3	217.0	203.8	198.8
75°	197.5	220.7	243.3	265.8	263.8	230.3	203.0	178.3	165.4	155.2	153.1
77.5°	145.8	158.8	174.2	187.5	183.8	164.7	143.2	129.1	119.6	112.7	111.6
80°	111.4	118.9	129.8	139.4	134.6	126.4	109.3	99.1	92.3	85.4	82.7
82.5°	80.8	88.3	94.9	100.0	96.4	88.7	78.2	71.2	67.1	62.4	61.3
85°	42.4	46.5	49.2	50.6	49.2	44.4	39.6	36.9	33.5	31.5	30.8
87.5°	21.0	20.1	19.2	19.6	17.5	17.0	14.4	12.2	12.1	12.0	11.5
90°	22.7	18.4	13.9	10.5	8.1	5.7	3.3	0.9	3.3	5.7	8.1
92.5°	26.7	25.6	24.5	23.2	21.4	19.6	17.8	16.1	17.8	19.6	21.4
95°	57.0	56.6	56.2	55.0	53.0	51.0	49.0	47.0	49.0	51.0	53.0
97.5°	95.7	94.9	94.2	92.8	91.1	89.3	87.6	85.8	87.6	89.3	91.1
100°	123.4	122.8	122.3	121.1	119.5	117.9	116.3	114.7	116.3	117.9	119.5
102.5°	152.8	151.9	151.2	150.2	148.9	147.6	146.3	145.1	146.3	147.6	148.9
105°	197.9	197.5	197.1	196.6	196.0	195.4	194.7	194.2	194.7	195.4	196.0
107.5°	247.6	247.6	247.6	247.2	246.3	245.4	244.6	243.7	244.6	245.4	246.3
110°	280.9	280.9	280.9	280.3	279.1	277.9	276.7	275.4	276.7	277.9	279.1



TEST NUMBER: P331598-940

CATALOG NUMBER: S122DIW-S1005D970U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	315.1	315.3	315.5	315.0	313.8	312.5	311.4	310.1	311.4	312.5	313.8
115°	365.7	366.0	366.5	366.0	364.9	363.6	362.5	361.2	362.5	363.6	364.9
117.5°	416.6	417.8	418.8	418.7	417.1	415.4	413.8	412.2	413.8	415.4	417.1
120°	449.4	451.0	452.6	452.6	451.0	449.4	447.8	446.2	447.8	449.4	451.0
122.5°	483.1	484.2	485.4	484.9	483.0	481.1	479.2	477.2	479.2	481.1	483.0
125°	532.3	532.9	533.5	532.9	531.1	529.2	527.4	525.7	527.4	529.2	531.1
127.5°	581.3	582.0	582.7	581.9	579.7	577.4	575.1	572.8	575.1	577.4	579.7
130°	613.1	613.6	613.9	612.9	610.3	607.6	605.0	602.4	605.0	607.6	610.3
132.5°	645.4	645.3	645.2	644.2	642.0	639.9	637.8	635.6	637.8	639.9	642.0
135°	691.0	690.6	690.2	688.9	686.7	684.5	682.3	680.1	682.3	684.5	686.7
137.5°	736.3	735.8	735.3	734.1	732.3	730.5	728.7	726.8	728.7	730.5	732.3
140°	765.7	764.7	763.7	762.2	760.5	758.7	756.9	755.0	756.9	758.7	760.5
142.5°	793.8	793.1	792.5	791.2	789.3	787.6	785.8	784.0	785.8	787.6	789.3
145°	834.8	833.7	832.4	831.2	829.7	828.3	826.9	825.5	826.9	828.3	829.7
147.5°	872.1	871.3	870.5	869.2	867.5	865.9	864.2	862.6	864.2	865.9	867.5
150°	895.3	894.5	893.7	892.6	891.4	890.2	889.0	887.8	889.0	890.2	891.4
152.5°	918.0	917.1	916.1	915.1	913.8	912.7	911.4	910.3	911.4	912.7	913.8
155°	948.1	947.4	946.8	946.2	945.7	945.0	944.4	943.8	944.4	945.0	945.7
157.5°	975.3	974.9	974.6	974.1	973.7	973.3	972.9	972.5	972.9	973.3	973.7
160°	992.2	992.0	991.8	991.5	991.0	990.7	990.2	989.9	990.2	990.7	991.0
162.5°	1006.7	1006.5	1006.2	1006.1	1006.0	1005.9	1005.8	1005.8	1005.8	1005.9	1006.0
165°	1026.0	1026.0	1026.0	1026.1	1026.3	1026.5	1026.7	1026.9	1026.7	1026.5	1026.3
167.5°	1041.8	1041.9	1041.9	1042.2	1042.8	1043.4	1044.0	1044.6	1044.0	1043.4	1042.8
170°	1050.8	1051.0	1051.2	1051.6	1052.2	1052.8	1053.4	1054.0	1053.4	1052.8	1052.2
172.5°	1057.3	1057.5	1057.7	1058.1	1058.7	1059.3	1059.9	1060.5	1059.9	1059.3	1058.7
175°	1064.7	1065.1	1065.5	1066.0	1066.7	1067.3	1067.8	1068.4	1067.8	1067.3	1066.7
177.5°	1068.7	1069.1	1069.3	1069.8	1070.2	1070.8	1071.2	1071.7	1071.2	1070.8	1070.2
180°	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2



TEST NUMBER: P331598-940

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1754.6	1751.3	1739.8	1733.8	1724.0	1714.7	1708.7	1711.5	1713.6	1712.5	1710.8
5°	1704.3	1691.3	1671.5	1654.4	1642.1	1619.6	1610.0	1605.3	1601.2	1596.3	1591.5
7.5°	1644.4	1624.0	1595.5	1571.2	1548.2	1520.2	1504.2	1494.7	1484.8	1474.0	1464.5
10°	1601.8	1573.1	1543.0	1508.9	1481.6	1456.3	1433.7	1418.6	1405.0	1392.0	1382.4
12.5°	1557.0	1523.9	1486.7	1440.0	1409.9	1373.7	1370.3	1343.8	1322.4	1314.4	1303.1
15°	1485.6	1439.1	1392.0	1336.7	1312.8	1280.0	1259.5	1238.9	1220.5	1207.5	1204.1
17.5°	1404.6	1344.4	1297.5	1257.8	1218.6	1185.0	1166.1	1149.7	1134.5	1117.1	1114.8
20°	1342.8	1290.8	1239.7	1204.8	1164.5	1130.2	1107.1	1090.7	1077.6	1067.4	1058.5
22.5°	1284.3	1227.4	1180.5	1142.5	1102.7	1075.0	1056.8	1040.9	1030.1	1018.8	1010.4
25°	1190.4	1146.0	1094.8	1051.7	1018.9	1001.1	986.1	972.4	965.6	958.1	948.5
27.5°	1108.3	1058.9	1010.9	977.6	948.8	933.1	922.4	913.1	906.7	902.3	896.9
30°	1050.3	1000.4	962.9	930.1	906.2	890.5	883.6	878.2	870.6	867.9	865.1
32.5°	994.5	949.6	917.5	889.0	866.2	856.0	849.7	844.8	838.9	836.2	830.7
35°	915.7	878.2	846.7	831.0	812.5	803.6	798.9	792.0	786.6	783.8	783.1
37.5°	841.5	808.9	788.2	767.9	760.2	754.7	748.1	743.5	741.9	741.5	740.7
40°	793.4	766.7	748.3	731.9	728.4	720.2	714.8	710.7	710.7	711.4	710.7
42.5°	749.7	725.8	709.4	695.3	691.3	686.3	680.9	680.6	681.7	684.0	681.7
45°	683.4	666.3	654.7	647.8	640.3	635.5	634.8	636.9	637.6	638.3	640.3
47.5°	622.4	611.1	600.6	593.0	589.8	588.9	588.1	591.7	594.9	596.2	599.3
50°	586.3	573.4	564.5	559.6	557.0	555.5	557.0	561.1	563.7	567.2	569.3
52.5°	545.9	536.7	530.6	526.9	525.8	526.6	526.9	531.5	535.9	537.2	538.1
55°	490.0	483.1	481.8	475.6	478.3	477.7	481.1	483.8	487.9	492.0	492.7
57.5°	434.2	428.7	425.1	425.6	426.4	429.4	432.3	437.1	441.5	445.9	446.2
60°	397.1	394.3	392.3	392.3	393.6	397.7	401.1	405.9	408.7	411.3	413.4
62.5°	363.1	360.4	358.4	359.4	363.0	365.4	369.4	372.0	374.8	377.5	378.4
65°	309.6	308.2	310.2	311.7	312.3	315.8	320.5	322.5	325.3	326.6	331.4
67.5°	260.2	260.5	260.2	262.2	266.1	266.9	271.4	276.3	276.8	279.4	282.5
70°	226.9	228.3	229.6	231.0	234.4	235.8	239.2	241.2	244.0	246.0	248.1
72.5°	196.3	196.5	197.9	197.6	200.5	203.5	206.3	208.4	211.2	213.7	215.8
75°	151.1	151.1	152.4	153.1	156.5	159.9	159.3	160.6	163.4	166.0	167.5
77.5°	110.3	108.8	110.3	111.0	112.1	114.9	115.5	117.4	120.6	119.6	121.1
80°	84.1	82.0	84.1	84.7	84.7	88.2	88.2	89.5	91.6	89.5	91.6
82.5°	60.0	59.0	60.5	60.7	61.8	61.9	63.0	63.3	65.4	64.4	65.4
85°	30.1	29.4	30.1	29.4	30.1	30.8	30.8	30.1	30.1	31.5	29.4
87.5°	11.4	11.5	11.9	12.8	13.1	13.5	12.8	12.8	12.7	11.5	11.4
90°	10.5	13.9	18.4	22.7	27.2	31.6	31.2	30.8	30.4	30.0	29.9
92.5°	23.2	24.5	25.6	26.7	27.6	28.7	28.8	28.9	29.0	29.1	29.1
95°	55.0	56.2	56.6	57.0	57.4	57.8	57.8	57.8	57.8	57.8	57.6
97.5°	92.8	94.2	94.9	95.7	96.4	97.2	97.2	97.2	97.2	97.2	97.2
100°	121.1	122.3	122.8	123.4	124.0	124.7	124.7	124.7	124.7	124.7	124.6
102.5°	150.2	151.2	151.9	152.8	153.5	154.3	154.4	154.6	154.7	154.9	154.9
105°	196.6	197.1	197.5	197.9	198.3	198.7	199.1	199.5	199.9	200.3	200.5
107.5°	247.2	247.6	247.6	247.6	247.6	247.6	247.8	248.0	248.2	248.3	247.9
110°	280.3	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.6



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CATALOG NUMBER: S122DIW-S1005D970U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	315.0	315.5	315.3	315.1	315.0	314.9	314.3	313.9	313.4	312.9	312.5
115°	366.0	366.5	366.0	365.7	365.2	364.9	364.7	364.4	364.3	364.1	363.6
117.5°	418.7	418.8	417.8	416.6	415.5	414.4	413.9	413.4	413.0	412.4	411.9
120°	452.6	452.6	451.0	449.4	447.8	446.2	446.2	446.2	446.2	446.2	445.9
122.5°	484.9	485.4	484.2	483.1	482.0	480.8	480.4	479.9	479.4	478.9	478.5
125°	532.9	533.5	532.9	532.3	531.6	531.1	530.5	529.9	529.2	528.7	528.2
127.5°	581.9	582.7	582.0	581.3	580.6	579.9	579.1	578.4	577.7	576.9	576.2
130°	612.9	613.9	613.6	613.1	612.8	612.3	612.0	611.5	611.2	610.7	610.1
132.5°	644.2	645.2	645.3	645.4	645.5	645.6	644.7	643.8	642.9	642.0	641.3
135°	688.9	690.2	690.6	691.0	691.4	691.8	691.6	691.4	691.3	691.0	690.6
137.5°	734.1	735.3	735.8	736.3	736.8	737.4	737.2	737.0	736.9	736.7	736.2
140°	762.2	763.7	764.7	765.7	766.7	767.7	767.7	767.7	767.7	767.7	767.3
142.5°	791.2	792.5	793.1	793.8	794.5	795.1	795.3	795.5	795.7	795.8	795.5
145°	831.2	832.4	833.7	834.8	836.1	837.2	837.4	837.7	837.9	838.0	837.8
147.5°	869.2	870.5	871.3	872.1	872.9	873.7	874.1	874.6	875.0	875.5	875.3
150°	892.6	893.7	894.5	895.3	896.1	896.9	897.4	898.0	898.7	899.3	899.3
152.5°	915.1	916.1	917.1	918.0	919.0	920.0	920.7	921.5	922.3	923.0	923.0
155°	946.2	946.8	947.4	948.1	948.6	949.2	950.2	951.3	952.3	953.2	953.4
157.5°	974.1	974.6	974.9	975.3	975.6	976.0	977.3	978.7	980.1	981.4	981.6
160°	991.5	991.8	992.0	992.2	992.4	992.6	993.8	995.0	996.2	997.4	997.6
162.5°	1006.1	1006.2	1006.5	1006.7	1006.8	1007.0	1008.4	1009.8	1011.1	1012.5	1012.7
165°	1026.1	1026.0	1026.0	1026.0	1026.0	1026.0	1027.4	1028.9	1030.2	1031.6	1031.8
167.5°	1042.2	1041.9	1041.9	1041.8	1041.8	1041.7	1043.1	1044.6	1046.0	1047.3	1047.5
170°	1051.6	1051.2	1051.0	1050.8	1050.6	1050.4	1051.8	1053.2	1054.6	1056.1	1056.1
172.5°	1058.1	1057.7	1057.5	1057.3	1057.1	1056.9	1058.3	1059.7	1061.1	1062.5	1062.7
175°	1066.0	1065.5	1065.1	1064.7	1064.3	1063.9	1065.3	1066.8	1068.2	1069.5	1069.7
177.5°	1069.8	1069.3	1069.1	1068.7	1068.4	1068.1	1069.1	1070.1	1070.9	1071.9	1071.9
180°	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1705.4	1704.3	1704.3	1699.4	1704.3	1704.3	1705.4	1710.8	1712.5	1713.6	1711.5
5°	1582.0	1579.9	1576.5	1579.9	1576.5	1579.9	1582.0	1591.5	1596.3	1601.2	1605.3
7.5°	1459.9	1451.7	1450.5	1442.4	1450.5	1451.7	1459.9	1464.5	1474.0	1484.8	1494.7
10°	1370.8	1365.4	1364.7	1351.7	1364.7	1365.4	1370.8	1382.4	1392.0	1405.0	1418.6
12.5°	1303.1	1289.9	1292.5	1285.0	1292.5	1289.9	1303.1	1303.1	1314.4	1322.4	1343.8
15°	1185.6	1185.6	1182.9	1171.3	1182.9	1185.6	1185.6	1204.1	1207.5	1220.5	1238.9
17.5°	1101.4	1099.9	1093.4	1096.6	1093.4	1099.9	1101.4	1114.8	1117.1	1134.5	1149.7
20°	1051.0	1047.0	1038.8	1038.8	1038.8	1047.0	1051.0	1058.5	1067.4	1077.6	1090.7
22.5°	1003.4	1003.2	994.4	997.2	994.4	1003.2	1003.4	1010.4	1018.8	1030.1	1040.9
25°	947.8	942.4	938.3	940.3	938.3	942.4	947.8	948.5	958.1	965.6	972.4
27.5°	895.1	892.1	891.8	886.2	891.8	892.1	895.1	896.9	902.3	906.7	913.1
30°	864.4	857.6	859.0	855.6	859.0	857.6	864.4	865.1	867.9	870.6	878.2
32.5°	829.5	827.0	825.6	822.8	825.6	827.0	829.5	830.7	836.2	838.9	844.8
35°	781.8	782.5	779.0	780.4	779.0	782.5	781.8	783.1	783.8	786.6	792.0
37.5°	740.1	742.3	740.7	741.0	740.7	742.3	740.1	740.7	741.5	741.9	743.5
40°	712.7	712.7	712.7	714.8	712.7	712.7	712.7	710.7	711.4	710.7	710.7
42.5°	686.5	685.5	684.3	684.2	684.3	685.5	686.5	681.7	684.0	681.7	680.6
45°	641.7	643.7	644.4	641.0	644.4	643.7	641.7	640.3	638.3	637.6	636.9
47.5°	601.1	601.4	601.1	604.1	601.1	601.4	601.1	599.3	596.2	594.9	591.7
50°	572.7	571.3	572.7	571.3	572.7	571.3	572.7	569.3	567.2	563.7	561.1
52.5°	542.6	542.9	542.1	541.8	542.1	542.9	542.6	538.1	537.2	535.9	531.5
55°	495.4	496.8	496.1	496.1	496.1	496.8	495.4	492.7	492.0	487.9	483.8
57.5°	446.7	447.9	448.8	445.9	448.8	447.9	446.7	446.2	445.9	441.5	437.1
60°	412.8	416.2	415.4	414.1	415.4	416.2	412.8	413.4	411.3	408.7	405.9
62.5°	381.6	382.8	382.7	382.5	382.7	382.8	381.6	378.4	377.5	374.8	372.0
65°	333.5	334.8	332.8	334.8	332.8	334.8	333.5	331.4	326.6	325.3	322.5
67.5°	281.7	282.1	283.6	284.5	283.6	282.1	281.7	282.5	279.4	276.8	276.3
70°	249.4	248.8	250.8	252.9	250.8	248.8	249.4	248.1	246.0	244.0	241.2
72.5°	215.5	217.0	216.3	217.8	216.3	217.0	215.5	215.8	213.7	211.2	208.4
75°	166.0	168.1	167.5	169.5	167.5	168.1	166.0	167.5	166.0	163.4	160.6
77.5°	120.0	120.3	120.0	121.1	120.0	120.3	120.0	121.1	119.6	120.6	117.4
80°	91.6	90.2	88.8	91.6	88.8	90.2	91.6	91.6	89.5	91.6	89.5
82.5°	63.7	64.5	63.1	63.1	63.1	64.5	63.7	65.4	64.4	65.4	63.3
85°	29.4	28.7	27.4	27.4	27.4	28.7	29.4	29.4	31.5	30.1	30.1
87.5°	11.5	11.0	11.1	10.5	11.1	11.0	11.5	11.4	11.5	12.7	12.8
90°	30.1	30.3	30.5	30.7	30.5	30.3	30.1	29.9	30.0	30.4	30.8
92.5°	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.1	29.1	29.0	28.9
95°	57.2	56.8	56.4	56.0	56.4	56.8	57.2	57.6	57.8	57.8	57.8
97.5°	97.1	97.1	97.0	97.0	97.0	97.1	97.1	97.2	97.2	97.2	97.2
100°	124.3	124.1	123.9	123.8	123.9	124.1	124.3	124.6	124.7	124.7	124.7
102.5°	154.7	154.4	154.3	154.1	154.3	154.4	154.7	154.9	154.9	154.7	154.6
105°	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.3	199.9	199.5
107.5°	247.0	246.0	245.1	244.2	245.1	246.0	247.0	247.9	248.3	248.2	248.0
110°	280.0	279.4	278.7	278.2	278.7	279.4	280.0	280.6	280.9	280.9	280.9



TEST NUMBER: P331598-940

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	312.0	311.6	311.1	310.7	311.1	311.6	312.0	312.5	312.9	313.4	313.9
115°	363.1	362.5	361.9	361.2	361.9	362.5	363.1	363.6	364.1	364.3	364.4
117.5°	411.3	410.7	410.1	409.5	410.1	410.7	411.3	411.9	412.4	413.0	413.4
120°	445.2	444.7	444.1	443.4	444.1	444.7	445.2	445.9	446.2	446.2	446.2
122.5°	478.0	477.6	477.2	476.7	477.2	477.6	478.0	478.5	478.9	479.4	479.9
125°	528.1	527.9	527.6	527.4	527.6	527.9	528.1	528.2	528.7	529.2	529.9
127.5°	575.6	575.0	574.4	573.7	574.4	575.0	575.6	576.2	576.9	577.7	578.4
130°	609.3	608.5	607.7	606.9	607.7	608.5	609.3	610.1	610.7	611.2	611.5
132.5°	640.7	640.0	639.4	638.7	639.4	640.0	640.7	641.3	642.0	642.9	643.8
135°	690.0	689.4	688.8	688.2	688.8	689.4	690.0	690.6	691.0	691.3	691.4
137.5°	735.4	734.6	733.8	733.0	733.8	734.6	735.4	736.2	736.7	736.9	737.0
140°	766.5	765.7	764.9	764.1	764.9	765.7	766.5	767.3	767.7	767.7	767.7
142.5°	794.7	793.9	793.1	792.3	793.1	793.9	794.7	795.5	795.8	795.7	795.5
145°	837.0	836.2	835.4	834.6	835.4	836.2	837.0	837.8	838.0	837.9	837.7
147.5°	874.6	873.8	873.1	872.3	873.1	873.8	874.6	875.3	875.5	875.0	874.6
150°	898.7	898.0	897.4	896.9	897.4	898.0	898.7	899.3	899.3	898.7	898.0
152.5°	922.3	921.5	920.7	920.0	920.7	921.5	922.3	923.0	923.0	922.3	921.5
155°	952.9	952.3	951.6	951.0	951.6	952.3	952.9	953.4	953.2	952.3	951.3
157.5°	980.7	979.7	978.7	977.8	978.7	979.7	980.7	981.6	981.4	980.1	978.7
160°	996.8	996.0	995.2	994.4	995.2	996.0	996.8	997.6	997.4	996.2	995.0
162.5°	1011.7	1010.8	1009.8	1008.9	1009.8	1010.8	1011.7	1012.7	1012.5	1011.1	1009.8
165°	1030.8	1029.8	1028.9	1027.8	1028.9	1029.8	1030.8	1031.8	1031.6	1030.2	1028.9
167.5°	1046.5	1045.4	1044.4	1043.4	1044.4	1045.4	1046.5	1047.5	1047.3	1046.0	1044.6
170°	1054.9	1053.7	1052.5	1051.3	1052.5	1053.7	1054.9	1056.1	1056.1	1054.6	1053.2
172.5°	1061.4	1060.2	1059.0	1057.8	1059.0	1060.2	1061.4	1062.7	1062.5	1061.1	1059.7
175°	1068.4	1067.3	1066.0	1064.9	1066.0	1067.3	1068.4	1069.7	1069.5	1068.2	1066.8
177.5°	1070.9	1070.1	1069.1	1068.1	1069.1	1070.1	1070.9	1071.9	1071.9	1070.9	1070.1
180°	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1708.7	1714.7	1724.0	1733.8	1739.8	1751.3	1754.6	1760.1	1765.0	1776.5	1788.5
5°	1610.0	1619.6	1642.1	1654.4	1671.5	1691.3	1704.3	1718.0	1733.0	1759.0	1782.9
7.5°	1504.2	1520.2	1548.2	1571.2	1595.5	1624.0	1644.4	1671.5	1693.9	1730.5	1765.5
10°	1433.7	1456.3	1481.6	1508.9	1543.0	1573.1	1601.8	1635.9	1663.3	1707.0	1748.0
12.5°	1370.3	1373.7	1409.9	1440.0	1486.7	1523.9	1557.0	1601.0	1627.7	1679.7	1722.9
15°	1259.5	1280.0	1312.8	1336.7	1392.0	1439.1	1485.6	1531.4	1562.2	1626.4	1683.1
17.5°	1166.1	1185.0	1218.6	1257.8	1297.5	1344.4	1404.6	1452.9	1494.7	1568.1	1635.1
20°	1107.1	1130.2	1164.5	1204.8	1239.7	1290.8	1342.8	1398.2	1443.2	1526.0	1604.5
22.5°	1056.8	1075.0	1102.7	1142.5	1180.5	1227.4	1284.3	1344.6	1391.9	1481.1	1560.8
25°	986.1	1001.1	1018.9	1051.7	1094.8	1146.0	1190.4	1256.7	1325.7	1409.1	1505.5
27.5°	922.4	933.1	948.8	977.6	1010.9	1058.9	1108.3	1171.2	1240.5	1331.1	1432.7
30°	883.6	890.5	906.2	930.1	962.9	1000.4	1050.3	1110.4	1181.5	1273.1	1374.2
32.5°	849.7	856.0	866.2	889.0	917.5	949.6	994.5	1054.7	1122.5	1212.5	1324.5
35°	798.9	803.6	812.5	831.0	846.7	878.2	915.7	970.4	1033.9	1120.1	1236.2
37.5°	748.1	754.7	760.2	767.9	788.2	808.9	841.5	887.7	950.0	1037.0	1147.6
40°	714.8	720.2	728.4	731.9	748.3	766.7	793.4	835.7	898.7	977.9	1085.8
42.5°	680.9	686.3	691.3	695.3	709.4	725.8	749.7	786.0	841.8	918.8	1025.7
45°	634.8	635.5	640.3	647.8	654.7	666.3	683.4	714.8	757.9	830.3	927.3
47.5°	588.1	588.9	589.8	593.0	600.6	611.1	622.4	648.0	686.5	744.3	838.7
50°	557.0	555.5	557.0	559.6	564.5	573.4	586.3	604.8	636.2	690.2	776.9
52.5°	526.9	526.6	525.8	526.9	530.6	536.7	545.9	561.6	589.8	639.4	715.8
55°	481.1	477.7	478.3	475.6	481.8	483.1	490.0	502.9	527.5	561.7	633.5
57.5°	432.3	429.4	426.4	425.6	425.1	428.7	434.2	444.4	463.3	493.3	551.4
60°	401.1	397.7	393.6	392.3	392.3	394.3	397.1	404.6	422.3	449.0	496.8
62.5°	369.4	365.4	363.0	359.4	358.4	360.4	363.1	368.5	381.3	406.4	447.6
65°	320.5	315.8	312.3	311.7	310.2	308.2	309.6	315.0	325.3	345.1	377.9
67.5°	271.4	266.9	266.1	262.2	260.2	260.5	260.2	264.8	271.0	288.1	312.5
70°	239.2	235.8	234.4	231.0	229.6	228.3	226.9	231.0	237.1	251.5	272.7
72.5°	206.3	203.5	200.5	197.6	197.9	196.5	196.3	198.8	203.8	217.0	233.3
75°	159.3	159.9	156.5	153.1	152.4	151.1	151.1	153.1	155.2	165.4	178.3
77.5°	115.5	114.9	112.1	111.0	110.3	108.8	110.3	111.6	112.7	119.6	129.1
80°	88.2	88.2	84.7	84.7	84.1	82.0	84.1	82.7	85.4	92.3	99.1
82.5°	63.0	61.9	61.8	60.7	60.5	59.0	60.0	61.3	62.4	67.1	71.2
85°	30.8	30.8	30.1	29.4	30.1	29.4	30.1	30.8	31.5	33.5	36.9
87.5°	12.8	13.5	13.1	12.8	11.9	11.5	11.4	11.5	12.0	12.1	12.2
90°	31.2	31.6	27.2	22.7	18.4	13.9	10.5	8.1	5.7	3.3	0.9
92.5°	28.8	28.7	27.6	26.7	25.6	24.5	23.2	21.4	19.6	17.8	16.1
95°	57.8	57.8	57.4	57.0	56.6	56.2	55.0	53.0	51.0	49.0	47.0
97.5°	97.2	97.2	96.4	95.7	94.9	94.2	92.8	91.1	89.3	87.6	85.8
100°	124.7	124.7	124.0	123.4	122.8	122.3	121.1	119.5	117.9	116.3	114.7
102.5°	154.4	154.3	153.5	152.8	151.9	151.2	150.2	148.9	147.6	146.3	145.1
105°	199.1	198.7	198.3	197.9	197.5	197.1	196.6	196.0	195.4	194.7	194.2
107.5°	247.8	247.6	247.6	247.6	247.6	247.6	247.2	246.3	245.4	244.6	243.7
110°	280.9	280.9	280.9	280.9	280.9	280.9	280.3	279.1	277.9	276.7	275.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	314.3	314.9	315.0	315.1	315.3	315.5	315.0	313.8	312.5	311.4	310.1
115°	364.7	364.9	365.2	365.7	366.0	366.5	366.0	364.9	363.6	362.5	361.2
117.5°	413.9	414.4	415.5	416.6	417.8	418.8	418.7	417.1	415.4	413.8	412.2
120°	446.2	446.2	447.8	449.4	451.0	452.6	452.6	451.0	449.4	447.8	446.2
122.5°	480.4	480.8	482.0	483.1	484.2	485.4	484.9	483.0	481.1	479.2	477.2
125°	530.5	531.1	531.6	532.3	532.9	533.5	532.9	531.1	529.2	527.4	525.7
127.5°	579.1	579.9	580.6	581.3	582.0	582.7	581.9	579.7	577.4	575.1	572.8
130°	612.0	612.3	612.8	613.1	613.6	613.9	612.9	610.3	607.6	605.0	602.4
132.5°	644.7	645.6	645.5	645.4	645.3	645.2	644.2	642.0	639.9	637.8	635.6
135°	691.6	691.8	691.4	691.0	690.6	690.2	688.9	686.7	684.5	682.3	680.1
137.5°	737.2	737.4	736.8	736.3	735.8	735.3	734.1	732.3	730.5	728.7	726.8
140°	767.7	767.7	766.7	765.7	764.7	763.7	762.2	760.5	758.7	756.9	755.0
142.5°	795.3	795.1	794.5	793.8	793.1	792.5	791.2	789.3	787.6	785.8	784.0
145°	837.4	837.2	836.1	834.8	833.7	832.4	831.2	829.7	828.3	826.9	825.5
147.5°	874.1	873.7	872.9	872.1	871.3	870.5	869.2	867.5	865.9	864.2	862.6
150°	897.4	896.9	896.1	895.3	894.5	893.7	892.6	891.4	890.2	889.0	887.8
152.5°	920.7	920.0	919.0	918.0	917.1	916.1	915.1	913.8	912.7	911.4	910.3
155°	950.2	949.2	948.6	948.1	947.4	946.8	946.2	945.7	945.0	944.4	943.8
157.5°	977.3	976.0	975.6	975.3	974.9	974.6	974.1	973.7	973.3	972.9	972.5
160°	993.8	992.6	992.4	992.2	992.0	991.8	991.5	991.0	990.7	990.2	989.9
162.5°	1008.4	1007.0	1006.8	1006.7	1006.5	1006.2	1006.1	1006.0	1005.9	1005.8	1005.8
165°	1027.4	1026.0	1026.0	1026.0	1026.0	1026.0	1026.1	1026.3	1026.5	1026.7	1026.9
167.5°	1043.1	1041.7	1041.8	1041.8	1041.9	1041.9	1042.2	1042.8	1043.4	1044.0	1044.6
170°	1051.8	1050.4	1050.6	1050.8	1051.0	1051.2	1051.6	1052.2	1052.8	1053.4	1054.0
172.5°	1058.3	1056.9	1057.1	1057.3	1057.5	1057.7	1058.1	1058.7	1059.3	1059.9	1060.5
175°	1065.3	1063.9	1064.3	1064.7	1065.1	1065.5	1066.0	1066.7	1067.3	1067.8	1068.4
177.5°	1069.1	1068.1	1068.4	1068.7	1069.1	1069.3	1069.8	1070.2	1070.8	1071.2	1071.7
180°	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1787.4	1790.1	1798.8	1807.7	1817.5	1820.2	1824.6	1820.8	1819.6	1830.1	1837.7
5°	1792.4	1804.7	1828.7	1850.6	1869.0	1882.0	1895.7	1901.1	1911.4	1925.7	1943.5
7.5°	1786.7	1810.6	1848.2	1880.1	1914.8	1939.8	1959.4	1976.0	1996.3	2023.5	2053.1
10°	1780.1	1812.3	1858.1	1897.0	1939.4	1971.5	1998.1	2024.1	2054.2	2091.8	2130.7
12.5°	1768.2	1806.2	1863.5	1909.6	1964.0	1995.6	2031.5	2087.6	2119.8	2172.1	2227.0
15°	1743.9	1786.3	1866.3	1923.0	1984.5	2044.6	2110.9	2164.2	2217.5	2248.3	2325.5
17.5°	1708.0	1770.2	1858.8	1924.9	2003.0	2097.7	2172.3	2232.7	2294.2	2344.0	2382.7
20°	1679.0	1746.7	1847.8	1927.1	2020.0	2121.8	2207.3	2268.8	2322.1	2363.7	2387.6
22.5°	1642.4	1727.5	1826.0	1918.9	2037.6	2138.2	2228.0	2276.4	2320.9	2341.4	2350.5
25°	1584.7	1687.2	1798.6	1912.1	2046.0	2152.6	2234.6	2264.0	2277.0	2257.2	2224.4
27.5°	1522.5	1636.8	1767.0	1899.2	2040.8	2143.3	2202.1	2197.4	2175.4	2111.3	2060.0
30°	1476.0	1601.8	1741.9	1886.1	2028.2	2128.0	2162.1	2128.0	2078.1	2006.3	1933.2
32.5°	1427.5	1557.6	1715.1	1867.5	2005.3	2093.0	2100.4	2041.7	1964.4	1882.8	1791.6
35°	1353.7	1494.5	1664.6	1826.0	1956.5	2011.8	1979.1	1875.2	1783.6	1672.2	1547.8
37.5°	1270.5	1425.9	1596.6	1765.1	1883.4	1897.8	1816.4	1707.0	1577.9	1447.0	1300.6
40°	1208.2	1372.9	1548.5	1718.7	1823.2	1808.2	1704.3	1584.0	1430.3	1270.3	1134.3
42.5°	1152.4	1317.1	1496.0	1662.9	1746.7	1705.4	1584.0	1436.5	1271.2	1120.6	996.0
45°	1055.8	1225.3	1408.5	1569.7	1617.6	1543.0	1382.4	1218.4	1055.8	930.1	831.7
47.5°	962.1	1129.6	1311.0	1452.7	1469.6	1369.5	1194.0	1025.2	885.4	783.0	713.5
50°	893.1	1061.2	1241.0	1367.4	1361.9	1241.0	1060.6	900.0	783.1	700.4	654.0
52.5°	831.3	990.2	1162.8	1277.7	1248.8	1116.9	944.7	802.1	706.1	641.4	599.3
55°	735.3	882.3	1046.2	1138.4	1085.2	939.0	793.4	678.6	607.5	559.0	526.2
57.5°	639.9	777.7	918.0	974.9	916.0	781.0	659.6	576.3	522.9	487.0	465.7
60°	580.9	701.2	826.2	875.4	805.0	684.7	589.1	514.6	471.5	442.1	423.0
62.5°	521.8	629.5	747.4	774.3	709.9	608.2	523.4	461.5	426.1	400.0	382.0
65°	441.5	529.6	619.1	636.9	577.5	498.8	431.9	391.6	360.2	341.0	326.6
67.5°	362.0	432.8	496.2	510.6	458.5	404.0	355.6	320.5	299.2	283.3	271.2
70°	315.0	371.0	423.0	434.6	393.0	344.4	307.6	279.5	260.4	246.7	235.1
72.5°	265.3	312.0	355.2	363.0	329.0	291.9	261.6	239.6	222.7	213.9	202.9
75°	203.0	230.3	263.8	265.8	243.3	220.7	197.5	183.2	174.2	163.4	157.8
77.5°	143.2	164.7	183.8	187.5	174.2	158.8	145.8	134.5	127.0	121.9	116.8
80°	109.3	126.4	134.6	139.4	129.8	118.9	111.4	103.9	99.1	95.7	92.3
82.5°	78.2	88.7	96.4	100.0	94.9	88.3	80.8	76.5	72.9	70.0	68.8
85°	39.6	44.4	49.2	50.6	49.2	46.5	42.4	42.4	40.3	39.6	39.6
87.5°	14.4	17.0	17.5	19.6	19.2	20.1	21.0	21.3	21.7	21.0	20.4
90°	3.3	5.7	8.1	10.5	13.9	18.4	22.7	27.2	31.6	31.2	30.8
92.5°	17.8	19.6	21.4	23.2	24.5	25.6	26.7	27.6	28.7	28.8	28.9
95°	49.0	51.0	53.0	55.0	56.2	56.6	57.0	57.4	57.8	57.8	57.8
97.5°	87.6	89.3	91.1	92.8	94.2	94.9	95.7	96.4	97.2	97.2	97.2
100°	116.3	117.9	119.5	121.1	122.3	122.8	123.4	124.0	124.7	124.7	124.7
102.5°	146.3	147.6	148.9	150.2	151.2	151.9	152.8	153.5	154.3	154.4	154.6
105°	194.7	195.4	196.0	196.6	197.1	197.5	197.9	198.3	198.7	199.1	199.5
107.5°	244.6	245.4	246.3	247.2	247.6	247.6	247.6	247.6	247.6	247.8	248.0
110°	276.7	277.9	279.1	280.3	280.9	280.9	280.9	280.9	280.9	280.9	280.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	311.4	312.5	313.8	315.0	315.5	315.3	315.1	315.0	314.9	314.3	313.9
115°	362.5	363.6	364.9	366.0	366.5	366.0	365.7	365.2	364.9	364.7	364.4
117.5°	413.8	415.4	417.1	418.7	418.8	417.8	416.6	415.5	414.4	413.9	413.4
120°	447.8	449.4	451.0	452.6	452.6	451.0	449.4	447.8	446.2	446.2	446.2
122.5°	479.2	481.1	483.0	484.9	485.4	484.2	483.1	482.0	480.8	480.4	479.9
125°	527.4	529.2	531.1	532.9	533.5	532.9	532.3	531.6	531.1	530.5	529.9
127.5°	575.1	577.4	579.7	581.9	582.7	582.0	581.3	580.6	579.9	579.1	578.4
130°	605.0	607.6	610.3	612.9	613.9	613.6	613.1	612.8	612.3	612.0	611.5
132.5°	637.8	639.9	642.0	644.2	645.2	645.3	645.4	645.5	645.6	644.7	643.8
135°	682.3	684.5	686.7	688.9	690.2	690.6	691.0	691.4	691.8	691.6	691.4
137.5°	728.7	730.5	732.3	734.1	735.3	735.8	736.3	736.8	737.4	737.2	737.0
140°	756.9	758.7	760.5	762.2	763.7	764.7	765.7	766.7	767.7	767.7	767.7
142.5°	785.8	787.6	789.3	791.2	792.5	793.1	793.8	794.5	795.1	795.3	795.5
145°	826.9	828.3	829.7	831.2	832.4	833.7	834.8	836.1	837.2	837.4	837.7
147.5°	864.2	865.9	867.5	869.2	870.5	871.3	872.1	872.9	873.7	874.1	874.6
150°	889.0	890.2	891.4	892.6	893.7	894.5	895.3	896.1	896.9	897.4	898.0
152.5°	911.4	912.7	913.8	915.1	916.1	917.1	918.0	919.0	920.0	920.7	921.5
155°	944.4	945.0	945.7	946.2	946.8	947.4	948.1	948.6	949.2	950.2	951.3
157.5°	972.9	973.3	973.7	974.1	974.6	974.9	975.3	975.6	976.0	977.3	978.7
160°	990.2	990.7	991.0	991.5	991.8	992.0	992.2	992.4	992.6	993.8	995.0
162.5°	1005.8	1005.9	1006.0	1006.1	1006.2	1006.5	1006.7	1006.8	1007.0	1008.4	1009.8
165°	1026.7	1026.5	1026.3	1026.1	1026.0	1026.0	1026.0	1026.0	1026.0	1027.4	1028.9
167.5°	1044.0	1043.4	1042.8	1042.2	1041.9	1041.9	1041.8	1041.8	1041.7	1043.1	1044.6
170°	1053.4	1052.8	1052.2	1051.6	1051.2	1051.0	1050.8	1050.6	1050.4	1051.8	1053.2
172.5°	1059.9	1059.3	1058.7	1058.1	1057.7	1057.5	1057.3	1057.1	1056.9	1058.3	1059.7
175°	1067.8	1067.3	1066.7	1066.0	1065.5	1065.1	1064.7	1064.3	1063.9	1065.3	1066.8
177.5°	1071.2	1070.8	1070.2	1069.8	1069.3	1069.1	1068.7	1068.4	1068.1	1069.1	1070.1
180°	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1844.2	1851.9	1851.9	1853.0	1861.7	1860.6	1860.1
5°	1962.7	1974.2	1975.6	1987.9	1996.1	1993.3	1985.8
7.5°	2074.3	2095.9	2112.3	2121.5	2132.3	2138.9	2135.9
10°	2162.8	2194.3	2213.4	2226.4	2242.1	2253.7	2249.6
12.5°	2243.2	2280.6	2306.9	2329.1	2331.2	2346.1	2336.0
15°	2368.6	2408.2	2412.3	2428.7	2441.7	2440.3	2441.0
17.5°	2409.9	2422.7	2425.3	2425.6	2425.8	2421.0	2410.7
20°	2395.2	2390.4	2378.8	2369.9	2354.2	2352.2	2338.5
22.5°	2325.2	2310.1	2280.9	2261.6	2237.2	2230.8	2227.0
25°	2187.5	2153.9	2107.5	2063.1	2050.8	2026.9	2033.7
27.5°	1998.4	1946.2	1896.0	1859.8	1827.2	1791.4	1801.6
30°	1865.5	1806.8	1735.7	1681.1	1646.2	1612.0	1605.9
32.5°	1707.0	1621.0	1541.7	1493.5	1440.1	1418.5	1394.9
35°	1433.7	1349.6	1271.0	1203.4	1164.5	1134.3	1107.1
37.5°	1187.8	1091.1	1027.6	972.9	944.7	927.5	931.8
40°	1035.3	950.6	904.1	862.4	836.4	824.1	826.9
42.5°	911.8	848.3	810.0	781.5	763.2	756.3	754.7
45°	771.5	736.0	704.5	688.1	679.3	671.7	667.0
47.5°	675.8	646.8	629.1	619.4	611.6	604.0	603.8
50°	618.4	599.3	587.0	576.8	570.6	565.2	569.9
52.5°	574.7	557.2	544.9	535.7	533.4	528.5	528.3
55°	509.8	496.1	487.2	479.0	474.9	472.2	468.8
57.5°	450.8	437.7	429.5	424.4	416.6	413.8	412.8
60°	408.7	398.4	390.2	383.3	380.0	374.5	374.5
62.5°	369.8	359.6	352.0	346.7	341.2	338.9	339.5
65°	313.7	305.5	297.9	292.5	291.1	287.0	288.4
67.5°	262.0	256.5	248.6	245.6	243.0	240.9	239.2
70°	227.6	222.1	218.0	213.9	211.9	211.9	211.9
72.5°	198.6	192.0	189.6	184.4	185.6	183.4	181.2
75°	153.7	149.6	147.6	145.5	142.1	142.1	142.1
77.5°	113.2	111.9	109.5	107.3	106.5	105.8	106.0
80°	87.5	86.8	85.4	85.4	84.1	83.4	82.0
82.5°	67.2	65.5	64.6	64.1	63.8	63.7	63.4
85°	38.3	36.9	36.9	37.5	36.2	36.2	36.9
87.5°	20.9	20.8	20.2	20.2	20.9	20.3	20.3
90°	30.4	30.0	29.9	30.1	30.3	30.5	30.7
92.5°	29.0	29.1	29.1	29.2	29.2	29.2	29.2
95°	57.8	57.8	57.6	57.2	56.8	56.4	56.0
97.5°	97.2	97.2	97.2	97.1	97.1	97.0	97.0
100°	124.7	124.7	124.6	124.3	124.1	123.9	123.8
102.5°	154.7	154.9	154.9	154.7	154.4	154.3	154.1
105°	199.9	200.3	200.5	200.5	200.5	200.5	200.5
107.5°	248.2	248.3	247.9	247.0	246.0	245.1	244.2
110°	280.9	280.9	280.6	280.0	279.4	278.7	278.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	313.4	312.9	312.5	312.0	311.6	311.1	310.7
115°	364.3	364.1	363.6	363.1	362.5	361.9	361.2
117.5°	413.0	412.4	411.9	411.3	410.7	410.1	409.5
120°	446.2	446.2	445.9	445.2	444.7	444.1	443.4
122.5°	479.4	478.9	478.5	478.0	477.6	477.2	476.7
125°	529.2	528.7	528.2	528.1	527.9	527.6	527.4
127.5°	577.7	576.9	576.2	575.6	575.0	574.4	573.7
130°	611.2	610.7	610.1	609.3	608.5	607.7	606.9
132.5°	642.9	642.0	641.3	640.7	640.0	639.4	638.7
135°	691.3	691.0	690.6	690.0	689.4	688.8	688.2
137.5°	736.9	736.7	736.2	735.4	734.6	733.8	733.0
140°	767.7	767.7	767.3	766.5	765.7	764.9	764.1
142.5°	795.7	795.8	795.5	794.7	793.9	793.1	792.3
145°	837.9	838.0	837.8	837.0	836.2	835.4	834.6
147.5°	875.0	875.5	875.3	874.6	873.8	873.1	872.3
150°	898.7	899.3	899.3	898.7	898.0	897.4	896.9
152.5°	922.3	923.0	923.0	922.3	921.5	920.7	920.0
155°	952.3	953.2	953.4	952.9	952.3	951.6	951.0
157.5°	980.1	981.4	981.6	980.7	979.7	978.7	977.8
160°	996.2	997.4	997.6	996.8	996.0	995.2	994.4
162.5°	1011.1	1012.5	1012.7	1011.7	1010.8	1009.8	1008.9
165°	1030.2	1031.6	1031.8	1030.8	1029.8	1028.9	1027.8
167.5°	1046.0	1047.3	1047.5	1046.5	1045.4	1044.4	1043.4
170°	1054.6	1056.1	1056.1	1054.9	1053.7	1052.5	1051.3
172.5°	1061.1	1062.5	1062.7	1061.4	1060.2	1059.0	1057.8
175°	1068.2	1069.5	1069.7	1068.4	1067.3	1066.0	1064.9
177.5°	1070.9	1071.9	1071.9	1070.9	1070.1	1069.1	1068.1
180°	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2

(END OF REPORT)