

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: P333260-840

Luminaire Tested: **S125DIP-S1090D590U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333260-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIP-S1090D590U840-4F0-1E-UDD-A1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1090 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6598.8 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')
CIE Type: Semi-Direct

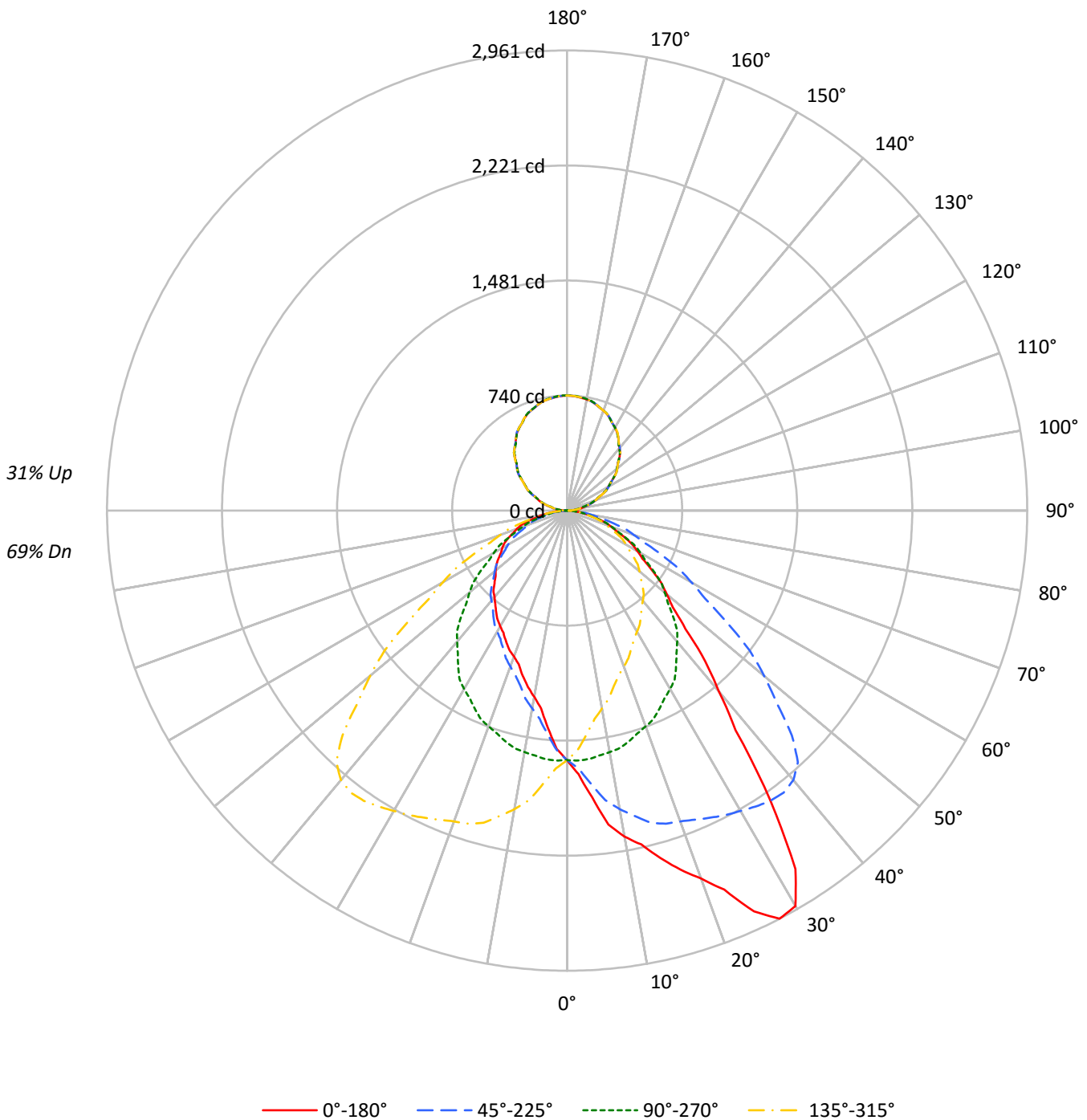
Input Watts (W): 48.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73	69
1	102	98	94	91	96	93	89	86	83	80	78	74	72	70	65	64	63	59
2	93	86	80	75	88	81	76	71	73	69	65	65	62	59	58	55	53	49
3	85	76	68	62	80	72	65	60	65	59	55	58	54	50	51	48	46	42
4	78	67	59	53	74	64	57	51	58	52	47	52	47	43	46	42	39	36
5	72	60	52	46	68	57	50	44	52	46	41	46	42	38	42	38	34	32
6	66	54	46	40	63	52	44	38	47	40	36	42	37	33	38	34	30	28
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	35	30	27	25
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	32	27	24	22
9	53	41	33	28	50	39	32	27	36	30	25	32	27	24	29	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10371	10371	10371	10371
5°	12010	10407	9111	10407
10°	13973	10352	7984	10352
15°	15468	10277	7365	10277
20°	17314	10156	6868	10156
25°	20283	10020	6625	10020
30°	21908	9887	6415	9887
35°	18013	9635	6277	9635
40°	12803	9286	6126	9286
45°	9836	8815	6039	8815
50°	8397	8232	6027	8232
55°	7475	7659	6079	7659
60°	6744	7034	6234	7034
65°	6229	6406	6395	6406
70°	5663	5754	6488	5754
75°	5001	5068	6428	5068
80°	4206	4132	5880	4132
85°	3327	2979	4742	2979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.6	2.3
10°-20°	460.3	7.0
20°-30°	747.4	11.3
30°-40°	911.7	13.8
40°-50°	829.4	12.6
50°-60°	660.6	10.0
60°-70°	460.1	7.0
70°-80°	245.4	3.7
80°-90°	63.5	1.0
90°-100°	49.6	0.8
100°-110°	146.4	2.2
110°-120°	248.0	3.8
120°-130°	326.4	4.9
130°-140°	365.7	5.5
140°-150°	358.4	5.4
150°-160°	301.1	4.6
160°-170°	200.1	3.0
170°-180°	70.0	1.1
0°-30°	1362.3	20.6
0°-40°	2274.0	34.5
0°-60°	3764.0	57.0
0°-90°	4533.1	68.7
90°-120°	444.0	6.7
90°-150°	1494.5	22.6
90°-180°	2066.0	31.3
0°-180°	6598.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1606	1606	1606	1606	1606	
5°	1853	1605	1405	1605	1853	187
15°	2313	1537	1102	1537	2313	662
25°	2846	1406	930	1406	2846	1300
35°	2285	1222	796	1222	2285	1398
45°	1077	965	661	965	1077	862
55°	664	680	540	680	664	598
65°	408	419	418	419	408	405
75°	200	203	258	203	200	216
85°	45	40	64	40	45	52
90°	14	1	14	1	14	10
95°	50	38	50	38	50	50
105°	143	131	143	131	143	151
115°	251	248	251	248	251	248
125°	365	362	365	362	365	326
135°	473	471	473	471	473	365
145°	573	571	573	571	573	358
155°	653	653	653	653	653	301
165°	709	710	709	710	709	200
175°	736	738	736	738	736	70
180°	740	740	740	740	740	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1698.6	1696.4	1694.3	1689.8	1693.1	1683.8	1679.5	1671.8	1662.5	1659.3	1655.5
5°	1852.6	1856.0	1859.5	1845.1	1846.4	1836.9	1815.1	1797.4	1783.1	1764.6	1751.7
7.5°	2038.0	2029.9	2029.3	2020.0	2004.1	1991.3	1968.3	1939.1	1911.0	1878.8	1852.2
10°	2130.7	2131.4	2125.3	2114.4	2097.3	2085.1	2055.1	2026.4	1991.7	1950.8	1921.5
12.5°	2200.5	2203.3	2195.6	2180.9	2172.5	2145.1	2121.6	2087.5	2046.2	2013.5	1968.9
15°	2313.4	2305.9	2300.5	2282.0	2267.8	2239.1	2201.6	2166.2	2121.1	2079.6	2038.0
17.5°	2422.2	2428.1	2417.9	2401.2	2356.7	2323.3	2273.0	2224.5	2168.5	2112.7	2063.1
20°	2519.2	2524.7	2509.0	2479.7	2426.5	2393.2	2327.0	2264.3	2199.6	2128.0	2073.5
22.5°	2640.3	2635.9	2614.7	2570.2	2524.2	2462.4	2390.9	2314.5	2233.3	2152.5	2080.0
25°	2846.4	2817.7	2804.8	2749.7	2689.0	2598.3	2500.1	2388.3	2287.4	2180.5	2087.8
27.5°	2960.6	2951.6	2937.2	2898.7	2835.0	2738.0	2622.3	2486.1	2343.8	2208.7	2087.4
30°	2937.7	2939.1	2940.4	2928.2	2887.3	2814.4	2699.2	2552.6	2383.6	2231.6	2091.1
32.5°	2734.9	2759.7	2783.4	2811.5	2823.0	2808.9	2736.8	2604.4	2430.4	2257.8	2089.0
35°	2284.7	2292.3	2369.2	2445.6	2549.2	2629.7	2683.5	2624.8	2478.3	2280.0	2086.4
37.5°	1781.5	1818.3	1871.6	1957.8	2107.4	2241.3	2413.5	2492.6	2445.4	2287.2	2081.6
40°	1518.6	1552.7	1587.5	1675.4	1801.5	1963.7	2159.3	2326.3	2365.2	2264.3	2065.3
42.5°	1315.8	1342.8	1381.4	1447.4	1552.9	1696.6	1883.4	2101.6	2235.9	2197.8	2030.9
45°	1076.9	1094.0	1124.0	1176.5	1252.8	1365.2	1530.2	1768.8	1976.7	2045.5	1949.4
47.5°	921.8	921.7	945.0	981.3	1036.3	1131.9	1253.8	1440.8	1662.8	1827.1	1819.5
50°	835.7	832.2	850.6	882.0	925.6	989.1	1105.6	1254.9	1468.1	1654.3	1706.1
52.5°	761.5	761.9	773.3	796.4	832.9	887.1	974.1	1108.7	1291.0	1482.0	1579.5
55°	663.9	661.2	674.1	689.8	716.4	751.8	814.6	917.5	1065.3	1253.4	1380.3
57.5°	574.4	582.0	587.1	598.0	620.2	643.9	696.7	772.2	889.6	1051.1	1185.1
60°	522.1	529.6	533.7	544.6	562.3	582.8	623.7	685.0	783.9	922.9	1055.8
62.5°	475.2	481.1	482.4	492.2	506.8	526.6	558.8	610.4	688.4	810.0	940.2
65°	407.6	407.6	410.3	420.5	427.4	445.0	469.6	507.2	569.9	664.6	775.7
67.5°	342.4	345.7	345.1	349.5	355.8	369.6	387.2	418.1	464.5	533.7	622.6
70°	299.9	302.7	301.9	305.4	312.1	321.0	335.4	364.7	398.1	457.4	533.7
72.5°	261.8	262.9	261.1	265.6	269.6	277.4	293.4	309.0	340.2	390.3	453.0
75°	200.4	201.8	203.1	205.8	210.0	214.0	222.2	237.9	258.3	295.8	336.1
77.5°	150.3	147.6	150.9	150.5	152.8	155.9	163.2	171.5	188.2	212.0	243.1
80°	113.1	113.8	113.8	114.5	118.0	120.0	126.1	132.2	145.2	162.9	184.7
82.5°	82.6	84.4	83.3	84.5	87.4	88.9	92.3	97.4	104.8	118.8	134.5
85°	44.9	41.6	42.9	44.3	44.3	44.9	47.7	49.8	53.8	59.3	65.4
87.5°	15.9	16.9	17.4	17.3	17.8	17.7	19.7	19.6	21.1	22.5	24.5
90°	13.8	13.4	13.0	12.7	12.3	11.8	11.1	10.5	9.9	9.2	8.3
92.5°	27.2	26.9	26.7	26.4	26.1	25.5	24.6	23.8	22.9	22.1	21.0
95°	49.6	49.3	49.1	48.8	48.5	48.0	47.1	46.2	45.2	44.3	43.1
97.5°	75.1	74.9	74.8	74.6	74.5	74.0	73.2	72.3	71.5	70.6	68.9
100°	94.5	94.2	94.0	93.7	93.4	92.7	91.6	90.5	89.3	88.2	86.4
102.5°	113.8	113.5	113.1	112.8	112.4	111.6	110.4	109.1	107.9	106.5	105.7
105°	142.9	142.5	142.1	141.7	141.4	140.8	140.0	139.3	138.5	137.6	136.9
107.5°	172.6	172.6	172.7	172.7	172.7	172.5	172.2	171.8	171.4	171.0	170.4
110°	194.7	194.8	195.0	195.1	195.2	195.1	194.7	194.3	194.0	193.6	193.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	216.4	216.6	216.8	217.1	217.3	217.3	217.1	217.0	216.8	216.6	216.1
115°	250.6	250.7	250.9	251.0	251.2	251.3	251.4	251.5	251.7	251.8	251.5
117.5°	284.0	284.6	285.1	285.6	286.1	286.3	286.2	286.1	286.0	285.9	285.6
120°	307.1	307.6	308.1	308.6	309.1	309.3	309.3	309.3	309.3	309.3	309.2
122.5°	330.1	330.5	330.9	331.3	331.7	332.0	332.1	332.2	332.3	332.4	332.0
125°	364.7	364.8	365.0	365.1	365.2	365.4	365.7	365.9	366.2	366.4	366.3
127.5°	397.9	398.1	398.4	398.6	398.9	399.1	399.2	399.3	399.5	399.6	399.4
130°	420.0	420.2	420.5	420.7	421.0	421.2	421.3	421.4	421.6	421.7	421.4
132.5°	440.7	441.1	441.4	441.8	442.1	442.4	442.5	442.6	442.8	442.9	442.9
135°	473.0	473.5	474.0	474.5	475.0	475.2	475.2	475.2	475.2	475.2	475.1
137.5°	504.5	505.2	505.8	506.4	507.2	507.4	507.2	507.1	506.9	506.8	506.4
140°	524.8	525.4	526.1	526.7	527.4	527.6	527.4	527.0	526.8	526.5	526.1
142.5°	544.2	544.8	545.4	546.1	546.7	546.9	546.8	546.6	546.5	546.3	545.9
145°	573.2	573.6	574.0	574.4	574.7	574.9	574.9	574.9	574.9	574.9	574.6
147.5°	598.0	598.8	599.8	600.6	601.5	601.8	601.5	601.2	600.9	600.6	600.3
150°	616.4	616.7	616.9	617.2	617.4	617.5	617.5	617.5	617.5	617.5	617.0
152.5°	631.7	632.1	632.6	633.0	633.5	633.6	633.3	633.0	632.7	632.4	632.1
155°	653.3	653.9	654.6	655.2	655.9	655.9	655.4	654.9	654.4	653.9	653.8
157.5°	671.4	672.3	673.1	673.9	674.8	674.9	674.4	673.9	673.4	672.9	672.8
160°	683.9	684.5	685.1	685.8	686.4	686.4	685.9	685.4	684.9	684.4	684.3
162.5°	694.4	695.2	695.9	696.7	697.4	697.5	696.8	696.2	695.6	695.0	695.0
165°	708.6	709.3	710.1	710.9	711.7	711.9	711.2	710.7	710.2	709.7	709.6
167.5°	719.9	720.6	721.4	722.3	723.1	723.1	722.4	721.5	720.7	720.0	720.0
170°	725.9	726.8	727.7	728.6	729.4	729.5	728.7	728.0	727.2	726.5	726.5
172.5°	730.9	731.7	732.6	733.4	734.2	734.2	733.4	732.7	731.8	731.0	731.0
175°	735.7	736.6	737.5	738.4	739.2	739.3	738.5	737.8	737.0	736.3	736.3
177.5°	738.4	739.1	739.9	740.6	741.3	741.3	740.7	740.1	739.5	738.9	739.0
180°	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1652.2	1648.4	1644.1	1636.4	1627.1	1622.2	1614.6	1609.7	1599.8	1591.6	1583.0
5°	1736.1	1718.4	1702.0	1680.8	1657.7	1642.6	1625.0	1605.2	1584.8	1563.6	1540.4
7.5°	1822.9	1791.5	1757.5	1720.8	1685.0	1651.9	1620.4	1589.5	1560.6	1525.7	1496.1
10°	1881.3	1841.7	1799.5	1749.7	1701.3	1659.0	1616.1	1578.6	1540.4	1499.5	1463.4
12.5°	1939.5	1886.9	1827.2	1772.6	1714.3	1663.3	1612.9	1565.0	1517.0	1471.8	1429.6
15°	1980.7	1934.4	1879.2	1801.5	1736.1	1665.9	1599.0	1537.0	1479.0	1428.7	1375.5
17.5°	2007.9	1948.1	1888.9	1814.3	1728.6	1650.0	1574.4	1503.4	1438.0	1374.1	1322.8
20°	2012.8	1951.5	1889.5	1816.4	1728.6	1638.6	1563.0	1477.7	1407.5	1341.4	1278.7
22.5°	2011.1	1941.7	1874.1	1799.1	1713.3	1630.4	1538.9	1452.1	1375.9	1310.9	1245.5
25°	1995.8	1921.5	1836.9	1761.3	1676.8	1588.8	1496.1	1406.1	1328.5	1254.2	1189.4
27.5°	1983.0	1886.5	1790.9	1702.6	1621.0	1540.4	1451.7	1359.6	1273.3	1198.1	1137.1
30°	1967.1	1861.5	1753.7	1661.7	1577.9	1499.5	1415.7	1325.8	1235.8	1162.2	1096.7
32.5°	1953.0	1829.9	1716.2	1616.0	1527.2	1451.0	1373.7	1288.1	1199.7	1125.1	1059.7
35°	1925.5	1783.1	1652.9	1539.7	1445.0	1366.7	1301.9	1222.1	1141.0	1068.7	1006.0
37.5°	1890.8	1721.7	1582.1	1463.4	1359.6	1277.0	1216.7	1155.5	1077.6	1007.9	951.3
40°	1863.5	1678.1	1530.2	1408.9	1301.2	1215.3	1159.4	1101.5	1036.7	972.0	912.0
42.5°	1829.2	1638.9	1477.8	1347.3	1240.6	1157.0	1098.3	1049.1	992.0	931.6	876.0
45°	1766.1	1567.7	1393.2	1252.8	1145.1	1062.6	1002.0	965.1	922.2	864.9	817.9
47.5°	1673.2	1482.2	1301.7	1156.8	1045.7	969.3	912.4	877.1	846.9	804.3	761.6
50°	1590.8	1418.5	1235.8	1092.0	980.9	903.8	851.3	819.3	793.3	760.6	724.6
52.5°	1498.7	1338.3	1170.8	1028.6	918.7	842.7	791.3	763.2	741.5	718.1	682.6
55°	1352.3	1216.0	1060.6	925.6	824.0	749.7	704.8	680.2	662.6	644.8	623.0
57.5°	1191.0	1084.4	946.7	823.3	729.8	662.3	620.3	596.4	582.6	573.5	560.7
60°	1077.6	986.3	867.7	755.2	663.9	603.9	563.0	544.6	533.0	525.5	515.9
62.5°	972.4	897.4	787.5	684.9	605.0	548.3	511.8	493.9	482.8	479.2	471.3
65°	817.3	759.3	668.6	583.5	515.3	466.9	436.3	419.2	412.3	408.3	409.0
67.5°	664.4	629.1	556.3	483.6	429.3	388.7	364.2	351.0	347.6	342.1	342.0
70°	571.2	544.6	483.2	419.9	371.4	340.1	318.3	304.7	301.2	298.5	297.9
72.5°	488.9	465.5	412.3	361.5	318.0	290.5	272.5	264.3	258.7	257.1	257.0
75°	367.4	354.5	312.1	272.0	242.0	222.9	210.7	203.1	199.0	198.3	199.0
77.5°	261.2	249.8	223.0	194.5	175.6	161.2	150.8	148.1	143.5	143.7	143.0
80°	196.3	188.8	171.8	149.3	133.6	121.3	115.8	111.1	109.8	107.7	109.8
82.5°	142.3	134.3	122.7	108.4	95.4	88.1	82.6	81.1	80.3	79.4	79.8
85°	70.2	70.9	64.0	53.1	47.7	43.6	40.2	40.2	39.5	38.9	39.5
87.5°	25.4	24.2	21.8	20.0	17.1	15.2	14.5	14.8	13.4	13.0	13.8
90°	7.5	6.6	5.7	4.6	3.6	2.6	1.6	0.6	1.6	2.6	3.6
92.5°	19.9	18.8	17.7	16.8	16.1	15.3	14.6	13.9	14.6	15.3	16.1
95°	41.8	40.5	39.3	38.5	38.2	38.0	37.7	37.5	37.7	38.0	38.2
97.5°	67.1	65.3	63.5	62.6	62.5	62.4	62.3	62.2	62.3	62.4	62.5
100°	84.8	83.1	81.5	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
102.5°	104.9	104.0	103.2	102.5	102.0	101.5	101.0	100.5	101.0	101.5	102.0
105°	136.1	135.4	134.6	133.9	133.3	132.6	132.0	131.4	132.0	132.6	133.3
107.5°	169.8	169.3	168.6	168.0	167.3	166.7	166.1	165.4	166.1	166.7	167.3
110°	192.8	192.4	192.1	191.6	190.9	190.3	189.6	188.9	189.6	190.3	190.9



TEST NUMBER: P333260-840

CATALOG NUMBER: S125DIP-S1090D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	215.6	215.2	214.7	214.3	213.9	213.6	213.3	212.9	213.3	213.6	213.9
115°	251.3	251.0	250.7	250.3	249.8	249.3	248.8	248.3	248.8	249.3	249.8
117.5°	285.4	285.2	285.0	284.7	284.5	284.3	284.0	283.8	284.0	284.3	284.5
120°	309.1	309.0	308.8	308.5	307.8	307.2	306.6	305.9	306.6	307.2	307.8
122.5°	331.7	331.4	331.0	330.8	330.5	330.3	330.1	329.9	330.1	330.3	330.5
125°	366.2	366.0	365.9	365.5	364.7	363.9	363.1	362.3	363.1	363.9	364.7
127.5°	399.3	399.1	399.0	398.7	398.2	397.8	397.4	397.0	397.4	397.8	398.2
130°	421.2	420.9	420.7	420.2	419.6	419.0	418.3	417.7	418.3	419.0	419.6
132.5°	443.0	443.0	443.1	442.6	441.5	440.5	439.5	438.4	439.5	440.5	441.5
135°	475.0	474.9	474.7	474.3	473.5	472.8	472.0	471.2	472.0	472.8	473.5
137.5°	506.1	505.9	505.6	505.1	504.3	503.6	502.9	502.1	502.9	503.6	504.3
140°	525.8	525.4	525.0	524.5	523.8	523.2	522.6	521.9	522.6	523.2	523.8
142.5°	545.4	544.9	544.4	543.9	543.4	542.8	542.3	541.8	542.3	542.8	543.4
145°	574.2	573.8	573.4	573.0	572.5	572.0	571.4	570.9	571.4	572.0	572.5
147.5°	600.0	599.6	599.3	599.1	598.7	598.4	598.1	597.8	598.1	598.4	598.7
150°	616.5	616.0	615.5	615.3	615.5	615.6	615.7	615.8	615.7	615.6	615.5
152.5°	631.9	631.7	631.5	631.3	631.2	631.0	630.8	630.6	630.8	631.0	631.2
155°	653.6	653.5	653.4	653.3	653.3	653.3	653.3	653.3	653.3	653.3	653.3
157.5°	672.7	672.5	672.4	672.5	672.8	673.0	673.3	673.6	673.3	673.0	672.8
160°	684.2	684.0	683.9	684.0	684.4	684.8	685.2	685.6	685.2	684.8	684.4
162.5°	695.0	694.9	694.9	695.0	695.3	695.6	695.9	696.2	695.9	695.6	695.3
165°	709.5	709.3	709.2	709.3	709.5	709.8	710.0	710.3	710.0	709.8	709.5
167.5°	720.0	720.0	720.0	720.2	720.7	721.2	721.9	722.4	721.9	721.2	720.7
170°	726.5	726.5	726.5	726.7	727.2	727.7	728.2	728.7	728.2	727.7	727.2
172.5°	731.0	731.0	731.0	731.3	731.8	732.4	732.9	733.4	732.9	732.4	731.8
175°	736.3	736.3	736.3	736.5	737.0	737.5	738.0	738.5	738.0	737.5	737.0
177.5°	739.1	739.2	739.3	739.5	740.0	740.4	740.8	741.2	740.8	740.4	740.0
180°	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3



TEST NUMBER: P333260-840

CATALOG NUMBER: S125DIP-S1090D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1578.0	1572.1	1567.1	1556.2	1550.2	1542.1	1535.5	1542.6	1535.0	1538.2	1533.4
5°	1528.8	1509.7	1496.1	1476.3	1459.4	1443.6	1432.1	1430.0	1424.5	1421.8	1413.6
7.5°	1469.7	1445.8	1422.4	1396.4	1374.6	1352.4	1338.3	1326.6	1318.8	1308.6	1301.6
10°	1434.8	1402.7	1375.5	1344.1	1316.9	1293.0	1273.9	1264.4	1255.6	1242.5	1237.8
12.5°	1391.7	1358.6	1325.3	1291.8	1265.6	1239.0	1222.6	1208.2	1202.0	1187.5	1186.0
15°	1340.1	1290.3	1257.6	1223.5	1187.4	1165.6	1152.0	1136.2	1129.4	1119.2	1111.7
17.5°	1278.4	1234.0	1193.1	1157.8	1126.8	1108.4	1091.6	1080.8	1069.0	1062.4	1050.1
20°	1233.8	1191.4	1150.5	1113.1	1089.2	1068.0	1054.4	1044.2	1032.0	1028.5	1016.3
22.5°	1196.1	1149.4	1110.2	1078.7	1052.7	1028.9	1014.1	1007.1	998.7	988.2	985.7
25°	1134.9	1086.5	1053.1	1021.8	998.6	976.7	966.5	957.7	949.5	942.0	939.3
27.5°	1082.0	1038.7	999.1	970.8	950.6	930.7	921.7	910.9	904.9	898.9	891.5
30°	1044.9	1000.6	965.8	938.6	916.8	899.1	889.5	882.0	876.6	871.1	867.0
32.5°	1006.7	965.7	932.0	905.3	883.5	870.1	861.7	856.4	850.4	843.8	838.7
35°	956.3	911.3	878.6	855.5	838.4	828.2	818.6	813.9	807.0	807.0	801.5
37.5°	899.5	860.6	831.7	810.6	795.3	786.2	775.8	772.5	768.2	765.3	763.4
40°	865.7	829.5	802.2	781.1	764.8	757.3	749.1	743.7	740.9	737.5	736.1
42.5°	830.7	796.3	770.1	750.6	736.4	730.0	722.4	718.5	713.1	708.6	707.8
45°	777.7	744.3	720.4	704.8	692.5	685.0	680.2	672.1	669.3	663.9	663.2
47.5°	727.4	695.4	672.0	659.1	648.3	642.2	634.7	626.5	623.4	620.7	620.4
50°	689.8	660.5	638.6	626.4	616.2	607.3	599.9	594.4	592.3	592.3	593.7
52.5°	651.7	626.6	608.1	593.1	583.5	574.0	567.1	563.8	560.7	564.0	566.4
55°	595.7	570.5	556.8	542.6	533.0	522.1	518.7	517.4	515.3	520.8	523.5
57.5°	536.5	518.9	502.9	488.7	480.1	473.8	469.2	468.4	472.2	474.8	483.6
60°	499.0	478.5	464.1	453.2	443.0	439.0	437.6	436.3	439.0	446.5	458.1
62.5°	457.5	440.9	425.5	417.3	409.8	402.9	402.7	403.5	409.0	417.6	429.1
65°	396.7	382.3	372.1	362.6	356.5	352.3	353.8	356.5	362.6	374.2	387.2
67.5°	335.0	325.2	316.0	308.2	302.4	302.4	303.8	307.8	315.1	328.4	340.2
70°	295.2	284.3	276.7	273.4	268.5	265.8	269.9	276.7	282.9	295.2	305.4
72.5°	255.3	246.1	240.2	237.9	235.8	233.7	235.0	242.4	250.6	263.0	274.8
75°	196.3	192.9	188.8	186.1	184.0	185.4	186.7	193.6	200.4	213.4	227.0
77.5°	143.3	139.8	137.2	136.6	135.5	136.2	140.0	145.0	151.7	161.2	171.5
80°	108.4	107.0	105.6	104.9	104.9	105.6	111.1	114.5	120.7	129.5	137.6
82.5°	79.0	78.1	77.9	77.7	78.3	78.4	81.7	86.1	91.2	97.9	104.9
85°	41.6	40.2	42.2	42.9	41.6	43.6	44.9	47.7	49.8	53.1	56.6
87.5°	14.5	15.9	15.5	16.2	16.4	17.7	17.3	19.6	20.8	22.0	21.5
90°	4.6	5.7	6.6	7.5	8.3	9.2	9.9	10.5	11.1	11.8	12.3
92.5°	16.8	17.7	18.8	19.9	21.0	22.1	22.9	23.8	24.6	25.5	26.1
95°	38.5	39.3	40.5	41.8	43.1	44.3	45.2	46.2	47.1	48.0	48.5
97.5°	62.6	63.5	65.3	67.1	68.9	70.6	71.5	72.3	73.2	74.0	74.5
100°	80.7	81.5	83.1	84.8	86.4	88.2	89.3	90.5	91.6	92.7	93.4
102.5°	102.5	103.2	104.0	104.9	105.7	106.5	107.9	109.1	110.4	111.6	112.4
105°	133.9	134.6	135.4	136.1	136.9	137.6	138.5	139.3	140.0	140.8	141.4
107.5°	168.0	168.6	169.3	169.8	170.4	171.0	171.4	171.8	172.2	172.5	172.7
110°	191.6	192.1	192.4	192.8	193.2	193.6	194.0	194.3	194.7	195.1	195.2



TEST NUMBER: P333260-840

CATALOG NUMBER: S125DIP-S1090D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	214.3	214.7	215.2	215.6	216.1	216.6	216.8	217.0	217.1	217.3	217.3
115°	250.3	250.7	251.0	251.3	251.5	251.8	251.7	251.5	251.4	251.3	251.2
117.5°	284.7	285.0	285.2	285.4	285.6	285.9	286.0	286.1	286.2	286.3	286.1
120°	308.5	308.8	309.0	309.1	309.2	309.3	309.3	309.3	309.3	309.3	309.1
122.5°	330.8	331.0	331.4	331.7	332.0	332.4	332.3	332.2	332.1	332.0	331.7
125°	365.5	365.9	366.0	366.2	366.3	366.4	366.2	365.9	365.7	365.4	365.2
127.5°	398.7	399.0	399.1	399.3	399.4	399.6	399.5	399.3	399.2	399.1	398.9
130°	420.2	420.7	420.9	421.2	421.4	421.7	421.6	421.4	421.3	421.2	421.0
132.5°	442.6	443.1	443.0	443.0	442.9	442.9	442.8	442.6	442.5	442.4	442.1
135°	474.3	474.7	474.9	475.0	475.1	475.2	475.2	475.2	475.2	475.2	475.0
137.5°	505.1	505.6	505.9	506.1	506.4	506.8	506.9	507.1	507.2	507.4	507.2
140°	524.5	525.0	525.4	525.8	526.1	526.5	526.8	527.0	527.4	527.6	527.4
142.5°	543.9	544.4	544.9	545.4	545.9	546.3	546.5	546.6	546.8	546.9	546.7
145°	573.0	573.4	573.8	574.2	574.6	574.9	574.9	574.9	574.9	574.9	574.7
147.5°	599.1	599.3	599.6	600.0	600.3	600.6	600.9	601.2	601.5	601.8	601.5
150°	615.3	615.5	616.0	616.5	617.0	617.5	617.5	617.5	617.5	617.5	617.4
152.5°	631.3	631.5	631.7	631.9	632.1	632.4	632.7	633.0	633.3	633.6	633.5
155°	653.3	653.4	653.5	653.6	653.8	653.9	654.4	654.9	655.4	655.9	655.9
157.5°	672.5	672.4	672.5	672.7	672.8	672.9	673.4	673.9	674.4	674.9	674.8
160°	684.0	683.9	684.0	684.2	684.3	684.4	684.9	685.4	685.9	686.4	686.4
162.5°	695.0	694.9	694.9	695.0	695.0	695.0	695.6	696.2	696.8	697.5	697.4
165°	709.3	709.2	709.3	709.5	709.6	709.7	710.2	710.7	711.2	711.9	711.7
167.5°	720.2	720.0	720.0	720.0	720.0	720.0	720.7	721.5	722.4	723.1	723.1
170°	726.7	726.5	726.5	726.5	726.5	726.5	727.2	728.0	728.7	729.5	729.4
172.5°	731.3	731.0	731.0	731.0	731.0	731.0	731.8	732.7	733.4	734.2	734.2
175°	736.5	736.3	736.3	736.3	736.3	736.3	737.0	737.8	738.5	739.3	739.2
177.5°	739.5	739.3	739.2	739.1	739.0	738.9	739.5	740.1	740.7	741.3	741.3
180°	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3



TEST NUMBER: P333260-840

CATALOG NUMBER: S125DIP-S1090D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1530.0	1533.9	1530.7	1535.0	1530.7	1533.9	1530.0	1533.4	1538.2	1535.0	1542.6
5°	1410.3	1404.1	1408.2	1405.4	1408.2	1404.1	1410.3	1413.6	1421.8	1424.5	1430.0
7.5°	1299.6	1293.7	1287.0	1283.8	1287.0	1293.7	1299.6	1301.6	1308.6	1318.8	1326.6
10°	1230.3	1222.8	1222.1	1217.4	1222.1	1222.8	1230.3	1237.8	1242.5	1255.6	1264.4
12.5°	1179.6	1172.7	1164.9	1162.9	1164.9	1172.7	1179.6	1186.0	1187.5	1202.0	1208.2
15°	1107.6	1102.2	1097.4	1101.5	1097.4	1102.2	1107.6	1111.7	1119.2	1129.4	1136.2
17.5°	1047.7	1043.3	1042.5	1037.4	1042.5	1043.3	1047.7	1050.1	1062.4	1069.0	1080.8
20°	1010.2	1006.7	1008.1	999.3	1008.1	1006.7	1010.2	1016.3	1028.5	1032.0	1044.2
22.5°	980.2	973.5	972.7	970.9	972.7	973.5	980.2	985.7	988.2	998.7	1007.1
25°	933.1	929.7	926.3	929.7	926.3	929.7	933.1	939.3	942.0	949.5	957.7
27.5°	892.1	888.0	887.1	887.5	887.1	888.0	892.1	891.5	898.9	904.9	910.9
30°	867.0	860.2	860.9	860.2	860.9	860.2	867.0	867.0	871.1	876.6	882.0
32.5°	839.7	835.1	834.1	832.9	834.1	835.1	839.7	838.7	843.8	850.4	856.4
35°	799.5	799.5	796.1	796.1	796.1	799.5	799.5	801.5	807.0	807.0	813.9
37.5°	761.7	761.0	759.0	759.3	759.0	761.0	761.7	763.4	765.3	768.2	772.5
40°	733.4	732.8	730.6	726.6	730.6	732.8	733.4	736.1	737.5	740.9	743.7
42.5°	706.1	703.9	702.9	701.6	702.9	703.9	706.1	707.8	708.6	713.1	718.5
45°	663.2	663.2	661.9	661.2	661.9	663.2	663.2	663.2	663.9	669.3	672.1
47.5°	621.5	622.7	625.3	624.9	625.3	622.7	621.5	620.4	620.7	623.4	626.5
50°	596.4	597.1	599.2	599.9	599.2	597.1	596.4	593.7	592.3	592.3	594.4
52.5°	568.6	572.6	575.1	574.7	575.1	572.6	568.6	566.4	564.0	560.7	563.8
55°	529.6	534.4	539.2	539.9	539.2	534.4	529.6	523.5	520.8	515.3	517.4
57.5°	491.0	497.7	502.7	504.4	502.7	497.7	491.0	483.6	474.8	472.2	468.4
60°	464.8	473.7	479.9	482.6	479.9	473.7	464.8	458.1	446.5	439.0	436.3
62.5°	439.8	449.7	455.9	456.4	455.9	449.7	439.8	429.1	417.6	409.0	403.5
65°	398.7	409.0	414.4	418.5	414.4	409.0	398.7	387.2	374.2	362.6	356.5
67.5°	354.6	364.8	370.8	374.1	370.8	364.8	354.6	340.2	328.4	315.1	307.8
70°	322.4	332.6	340.8	343.6	340.8	332.6	322.4	305.4	295.2	282.9	276.7
72.5°	290.7	299.9	306.5	309.7	306.5	299.9	290.7	274.8	263.0	250.6	242.4
75°	235.8	248.1	254.3	257.6	254.3	248.1	235.8	227.0	213.4	200.4	193.6
77.5°	181.9	193.0	196.7	198.4	196.7	193.0	181.9	171.5	161.2	151.7	145.0
80°	145.8	152.7	157.4	158.1	157.4	152.7	145.8	137.6	129.5	120.7	114.5
82.5°	112.1	117.8	119.3	121.1	119.3	117.8	112.1	104.9	97.9	91.2	86.1
85°	61.3	64.0	64.7	64.0	64.7	64.0	61.3	56.6	53.1	49.8	47.7
87.5°	22.7	22.2	22.3	23.5	22.3	22.2	22.7	21.5	22.0	20.8	19.6
90°	12.7	13.0	13.4	13.8	13.4	13.0	12.7	12.3	11.8	11.1	10.5
92.5°	26.4	26.7	26.9	27.2	26.9	26.7	26.4	26.1	25.5	24.6	23.8
95°	48.8	49.1	49.3	49.6	49.3	49.1	48.8	48.5	48.0	47.1	46.2
97.5°	74.6	74.8	74.9	75.1	74.9	74.8	74.6	74.5	74.0	73.2	72.3
100°	93.7	94.0	94.2	94.5	94.2	94.0	93.7	93.4	92.7	91.6	90.5
102.5°	112.8	113.1	113.5	113.8	113.5	113.1	112.8	112.4	111.6	110.4	109.1
105°	141.7	142.1	142.5	142.9	142.5	142.1	141.7	141.4	140.8	140.0	139.3
107.5°	172.7	172.7	172.6	172.6	172.6	172.7	172.7	172.7	172.5	172.2	171.8
110°	195.1	195.0	194.8	194.7	194.8	195.0	195.1	195.2	195.1	194.7	194.3



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	217.1	216.8	216.6	216.4	216.6	216.8	217.1	217.3	217.3	217.1	217.0
115°	251.0	250.9	250.7	250.6	250.7	250.9	251.0	251.2	251.3	251.4	251.5
117.5°	285.6	285.1	284.6	284.0	284.6	285.1	285.6	286.1	286.3	286.2	286.1
120°	308.6	308.1	307.6	307.1	307.6	308.1	308.6	309.1	309.3	309.3	309.3
122.5°	331.3	330.9	330.5	330.1	330.5	330.9	331.3	331.7	332.0	332.1	332.2
125°	365.1	365.0	364.8	364.7	364.8	365.0	365.1	365.2	365.4	365.7	365.9
127.5°	398.6	398.4	398.1	397.9	398.1	398.4	398.6	398.9	399.1	399.2	399.3
130°	420.7	420.5	420.2	420.0	420.2	420.5	420.7	421.0	421.2	421.3	421.4
132.5°	441.8	441.4	441.1	440.7	441.1	441.4	441.8	442.1	442.4	442.5	442.6
135°	474.5	474.0	473.5	473.0	473.5	474.0	474.5	475.0	475.2	475.2	475.2
137.5°	506.4	505.8	505.2	504.5	505.2	505.8	506.4	507.2	507.4	507.2	507.1
140°	526.7	526.1	525.4	524.8	525.4	526.1	526.7	527.4	527.6	527.4	527.0
142.5°	546.1	545.4	544.8	544.2	544.8	545.4	546.1	546.7	546.9	546.8	546.6
145°	574.4	574.0	573.6	573.2	573.6	574.0	574.4	574.7	574.9	574.9	574.9
147.5°	600.6	599.8	598.8	598.0	598.8	599.8	600.6	601.5	601.8	601.5	601.2
150°	617.2	616.9	616.7	616.4	616.7	616.9	617.2	617.4	617.5	617.5	617.5
152.5°	633.0	632.6	632.1	631.7	632.1	632.6	633.0	633.5	633.6	633.3	633.0
155°	655.2	654.6	653.9	653.3	653.9	654.6	655.2	655.9	655.9	655.4	654.9
157.5°	673.9	673.1	672.3	671.4	672.3	673.1	673.9	674.8	674.9	674.4	673.9
160°	685.8	685.1	684.5	683.9	684.5	685.1	685.8	686.4	686.4	685.9	685.4
162.5°	696.7	695.9	695.2	694.4	695.2	695.9	696.7	697.4	697.5	696.8	696.2
165°	710.9	710.1	709.3	708.6	709.3	710.1	710.9	711.7	711.9	711.2	710.7
167.5°	722.3	721.4	720.6	719.9	720.6	721.4	722.3	723.1	723.1	722.4	721.5
170°	728.6	727.7	726.8	725.9	726.8	727.7	728.6	729.4	729.5	728.7	728.0
172.5°	733.4	732.6	731.7	730.9	731.7	732.6	733.4	734.2	734.2	733.4	732.7
175°	738.4	737.5	736.6	735.7	736.6	737.5	738.4	739.2	739.3	738.5	737.8
177.5°	740.6	739.9	739.1	738.4	739.1	739.9	740.6	741.3	741.3	740.7	740.1
180°	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3



TEST NUMBER: P333260-840

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1535.5	1542.1	1550.2	1556.2	1567.1	1572.1	1578.0	1583.0	1591.6	1599.8	1609.7
5°	1432.1	1443.6	1459.4	1476.3	1496.1	1509.7	1528.8	1540.4	1563.6	1584.8	1605.2
7.5°	1338.3	1352.4	1374.6	1396.4	1422.4	1445.8	1469.7	1496.1	1525.7	1560.6	1589.5
10°	1273.9	1293.0	1316.9	1344.1	1375.5	1402.7	1434.8	1463.4	1499.5	1540.4	1578.6
12.5°	1222.6	1239.0	1265.6	1291.8	1325.3	1358.6	1391.7	1429.6	1471.8	1517.0	1565.0
15°	1152.0	1165.6	1187.4	1223.5	1257.6	1290.3	1340.1	1375.5	1428.7	1479.0	1537.0
17.5°	1091.6	1108.4	1126.8	1157.8	1193.1	1234.0	1278.4	1322.8	1374.1	1438.0	1503.4
20°	1054.4	1068.0	1089.2	1113.1	1150.5	1191.4	1233.8	1278.7	1341.4	1407.5	1477.7
22.5°	1014.1	1028.9	1052.7	1078.7	1110.2	1149.4	1196.1	1245.5	1310.9	1375.9	1452.1
25°	966.5	976.7	998.6	1021.8	1053.1	1086.5	1134.9	1189.4	1254.2	1328.5	1406.1
27.5°	921.7	930.7	950.6	970.8	999.1	1038.7	1082.0	1137.1	1198.1	1273.3	1359.6
30°	889.5	899.1	916.8	938.6	965.8	1000.6	1044.9	1096.7	1162.2	1235.8	1325.8
32.5°	861.7	870.1	883.5	905.3	932.0	965.7	1006.7	1059.7	1125.1	1199.7	1288.1
35°	818.6	828.2	838.4	855.5	878.6	911.3	956.3	1006.0	1068.7	1141.0	1222.1
37.5°	775.8	786.2	795.3	810.6	831.7	860.6	899.5	951.3	1007.9	1077.6	1155.5
40°	749.1	757.3	764.8	781.1	802.2	829.5	865.7	912.0	972.0	1036.7	1101.5
42.5°	722.4	730.0	736.4	750.6	770.1	796.3	830.7	876.0	931.6	992.0	1049.1
45°	680.2	685.0	692.5	704.8	720.4	744.3	777.7	817.9	864.9	922.2	965.1
47.5°	634.7	642.2	648.3	659.1	672.0	695.4	727.4	761.6	804.3	846.9	877.1
50°	599.9	607.3	616.2	626.4	638.6	660.5	689.8	724.6	760.6	793.3	819.3
52.5°	567.1	574.0	583.5	593.1	608.1	626.6	651.7	682.6	718.1	741.5	763.2
55°	518.7	522.1	533.0	542.6	556.8	570.5	595.7	623.0	644.8	662.6	680.2
57.5°	469.2	473.8	480.1	488.7	502.9	518.9	536.5	560.7	573.5	582.6	596.4
60°	437.6	439.0	443.0	453.2	464.1	478.5	499.0	515.9	525.5	533.0	544.6
62.5°	402.7	402.9	409.8	417.3	425.5	440.9	457.5	471.3	479.2	482.8	493.9
65°	353.8	352.3	356.5	362.6	372.1	382.3	396.7	409.0	408.3	412.3	419.2
67.5°	303.8	302.4	302.4	308.2	316.0	325.2	335.0	342.0	342.1	347.6	351.0
70°	269.9	265.8	268.5	273.4	276.7	284.3	295.2	297.9	298.5	301.2	304.7
72.5°	235.0	233.7	235.8	237.9	240.2	246.1	255.3	257.0	257.1	258.7	264.3
75°	186.7	185.4	184.0	186.1	188.8	192.9	196.3	199.0	198.3	199.0	203.1
77.5°	140.0	136.2	135.5	136.6	137.2	139.8	143.3	143.0	143.7	143.5	148.1
80°	111.1	105.6	104.9	104.9	105.6	107.0	108.4	109.8	107.7	109.8	111.1
82.5°	81.7	78.4	78.3	77.7	77.9	78.1	79.0	79.8	79.4	80.3	81.1
85°	44.9	43.6	41.6	42.9	42.2	40.2	41.6	39.5	38.9	39.5	40.2
87.5°	17.3	17.7	16.4	16.2	15.5	15.9	14.5	13.8	13.0	13.4	14.8
90°	9.9	9.2	8.3	7.5	6.6	5.7	4.6	3.6	2.6	1.6	0.6
92.5°	22.9	22.1	21.0	19.9	18.8	17.7	16.8	16.1	15.3	14.6	13.9
95°	45.2	44.3	43.1	41.8	40.5	39.3	38.5	38.2	38.0	37.7	37.5
97.5°	71.5	70.6	68.9	67.1	65.3	63.5	62.6	62.5	62.4	62.3	62.2
100°	89.3	88.2	86.4	84.8	83.1	81.5	80.7	80.7	80.7	80.7	80.7
102.5°	107.9	106.5	105.7	104.9	104.0	103.2	102.5	102.0	101.5	101.0	100.5
105°	138.5	137.6	136.9	136.1	135.4	134.6	133.9	133.3	132.6	132.0	131.4
107.5°	171.4	171.0	170.4	169.8	169.3	168.6	168.0	167.3	166.7	166.1	165.4
110°	194.0	193.6	193.2	192.8	192.4	192.1	191.6	190.9	190.3	189.6	188.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	216.8	216.6	216.1	215.6	215.2	214.7	214.3	213.9	213.6	213.3	212.9
115°	251.7	251.8	251.5	251.3	251.0	250.7	250.3	249.8	249.3	248.8	248.3
117.5°	286.0	285.9	285.6	285.4	285.2	285.0	284.7	284.5	284.3	284.0	283.8
120°	309.3	309.3	309.2	309.1	309.0	308.8	308.5	307.8	307.2	306.6	305.9
122.5°	332.3	332.4	332.0	331.7	331.4	331.0	330.8	330.5	330.3	330.1	329.9
125°	366.2	366.4	366.3	366.2	366.0	365.9	365.5	364.7	363.9	363.1	362.3
127.5°	399.5	399.6	399.4	399.3	399.1	399.0	398.7	398.2	397.8	397.4	397.0
130°	421.6	421.7	421.4	421.2	420.9	420.7	420.2	419.6	419.0	418.3	417.7
132.5°	442.8	442.9	442.9	443.0	443.0	443.1	442.6	441.5	440.5	439.5	438.4
135°	475.2	475.2	475.1	475.0	474.9	474.7	474.3	473.5	472.8	472.0	471.2
137.5°	506.9	506.8	506.4	506.1	505.9	505.6	505.1	504.3	503.6	502.9	502.1
140°	526.8	526.5	526.1	525.8	525.4	525.0	524.5	523.8	523.2	522.6	521.9
142.5°	546.5	546.3	545.9	545.4	544.9	544.4	543.9	543.4	542.8	542.3	541.8
145°	574.9	574.9	574.6	574.2	573.8	573.4	573.0	572.5	572.0	571.4	570.9
147.5°	600.9	600.6	600.3	600.0	599.6	599.3	599.1	598.7	598.4	598.1	597.8
150°	617.5	617.5	617.0	616.5	616.0	615.5	615.3	615.5	615.6	615.7	615.8
152.5°	632.7	632.4	632.1	631.9	631.7	631.5	631.3	631.2	631.0	630.8	630.6
155°	654.4	653.9	653.8	653.6	653.5	653.4	653.3	653.3	653.3	653.3	653.3
157.5°	673.4	672.9	672.8	672.7	672.5	672.4	672.5	672.8	673.0	673.3	673.6
160°	684.9	684.4	684.3	684.2	684.0	683.9	684.0	684.4	684.8	685.2	685.6
162.5°	695.6	695.0	695.0	695.0	694.9	694.9	695.0	695.3	695.6	695.9	696.2
165°	710.2	709.7	709.6	709.5	709.3	709.2	709.3	709.5	709.8	710.0	710.3
167.5°	720.7	720.0	720.0	720.0	720.0	720.0	720.2	720.7	721.2	721.9	722.4
170°	727.2	726.5	726.5	726.5	726.5	726.5	726.7	727.2	727.7	728.2	728.7
172.5°	731.8	731.0	731.0	731.0	731.0	731.0	731.3	731.8	732.4	732.9	733.4
175°	737.0	736.3	736.3	736.3	736.3	736.3	736.5	737.0	737.5	738.0	738.5
177.5°	739.5	738.9	739.0	739.1	739.2	739.3	739.5	740.0	740.4	740.8	741.2
180°	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1614.6	1622.2	1627.1	1636.4	1644.1	1648.4	1652.2	1655.5	1659.3	1662.5	1671.8
5°	1625.0	1642.6	1657.7	1680.8	1702.0	1718.4	1736.1	1751.7	1764.6	1783.1	1797.4
7.5°	1620.4	1651.9	1685.0	1720.8	1757.5	1791.5	1822.9	1852.2	1878.8	1911.0	1939.1
10°	1616.1	1659.0	1701.3	1749.7	1799.5	1841.7	1881.3	1921.5	1950.8	1991.7	2026.4
12.5°	1612.9	1663.3	1714.3	1772.6	1827.2	1886.9	1939.5	1968.9	2013.5	2046.2	2087.5
15°	1599.0	1665.9	1736.1	1801.5	1879.2	1934.4	1980.7	2038.0	2079.6	2121.1	2166.2
17.5°	1574.4	1650.0	1728.6	1814.3	1888.9	1948.1	2007.9	2063.1	2112.7	2168.5	2224.5
20°	1563.0	1638.6	1728.6	1816.4	1889.5	1951.5	2012.8	2073.5	2128.0	2199.6	2264.3
22.5°	1538.9	1630.4	1713.3	1799.1	1874.1	1941.7	2011.1	2080.0	2152.5	2233.3	2314.5
25°	1496.1	1588.8	1676.8	1761.3	1836.9	1921.5	1995.8	2087.8	2180.5	2287.4	2388.3
27.5°	1451.7	1540.4	1621.0	1702.6	1790.9	1886.5	1983.0	2087.4	2208.7	2343.8	2486.1
30°	1415.7	1499.5	1577.9	1661.7	1753.7	1861.5	1967.1	2091.1	2231.6	2383.6	2552.6
32.5°	1373.7	1451.0	1527.2	1616.0	1716.2	1829.9	1953.0	2089.0	2257.8	2430.4	2604.4
35°	1301.9	1366.7	1445.0	1539.7	1652.9	1783.1	1925.5	2086.4	2280.0	2478.3	2624.8
37.5°	1216.7	1277.0	1359.6	1463.4	1582.1	1721.7	1890.8	2081.6	2287.2	2445.4	2492.6
40°	1159.4	1215.3	1301.2	1408.9	1530.2	1678.1	1863.5	2065.3	2264.3	2365.2	2326.3
42.5°	1098.3	1157.0	1240.6	1347.3	1477.8	1638.9	1829.2	2030.9	2197.8	2235.9	2101.6
45°	1002.0	1062.6	1145.1	1252.8	1393.2	1567.7	1766.1	1949.4	2045.5	1976.7	1768.8
47.5°	912.4	969.3	1045.7	1156.8	1301.7	1482.2	1673.2	1819.5	1827.1	1662.8	1440.8
50°	851.3	903.8	980.9	1092.0	1235.8	1418.5	1590.8	1706.1	1654.3	1468.1	1254.9
52.5°	791.3	842.7	918.7	1028.6	1170.8	1338.3	1498.7	1579.5	1482.0	1291.0	1108.7
55°	704.8	749.7	824.0	925.6	1060.6	1216.0	1352.3	1380.3	1253.4	1065.3	917.5
57.5°	620.3	662.3	729.8	823.3	946.7	1084.4	1191.0	1185.1	1051.1	889.6	772.2
60°	563.0	603.9	663.9	755.2	867.7	986.3	1077.6	1055.8	922.9	783.9	685.0
62.5°	511.8	548.3	605.0	684.9	787.5	897.4	972.4	940.2	810.0	688.4	610.4
65°	436.3	466.9	515.3	583.5	668.6	759.3	817.3	775.7	664.6	569.9	507.2
67.5°	364.2	388.7	429.3	483.6	556.3	629.1	664.4	622.6	533.7	464.5	418.1
70°	318.3	340.1	371.4	419.9	483.2	544.6	571.2	533.7	457.4	398.1	364.7
72.5°	272.5	290.5	318.0	361.5	412.3	465.5	488.9	453.0	390.3	340.2	309.0
75°	210.7	222.9	242.0	272.0	312.1	354.5	367.4	336.1	295.8	258.3	237.9
77.5°	150.8	161.2	175.6	194.5	223.0	249.8	261.2	243.1	212.0	188.2	171.5
80°	115.8	121.3	133.6	149.3	171.8	188.8	196.3	184.7	162.9	145.2	132.2
82.5°	82.6	88.1	95.4	108.4	122.7	134.3	142.3	134.5	118.8	104.8	97.4
85°	40.2	43.6	47.7	53.1	64.0	70.9	70.2	65.4	59.3	53.8	49.8
87.5°	14.5	15.2	17.1	20.0	21.8	24.2	25.4	24.5	22.5	21.1	19.6
90°	1.6	2.6	3.6	4.6	5.7	6.6	7.5	8.3	9.2	9.9	10.5
92.5°	14.6	15.3	16.1	16.8	17.7	18.8	19.9	21.0	22.1	22.9	23.8
95°	37.7	38.0	38.2	38.5	39.3	40.5	41.8	43.1	44.3	45.2	46.2
97.5°	62.3	62.4	62.5	62.6	63.5	65.3	67.1	68.9	70.6	71.5	72.3
100°	80.7	80.7	80.7	80.7	81.5	83.1	84.8	86.4	88.2	89.3	90.5
102.5°	101.0	101.5	102.0	102.5	103.2	104.0	104.9	105.7	106.5	107.9	109.1
105°	132.0	132.6	133.3	133.9	134.6	135.4	136.1	136.9	137.6	138.5	139.3
107.5°	166.1	166.7	167.3	168.0	168.6	169.3	169.8	170.4	171.0	171.4	171.8
110°	189.6	190.3	190.9	191.6	192.1	192.4	192.8	193.2	193.6	194.0	194.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	213.3	213.6	213.9	214.3	214.7	215.2	215.6	216.1	216.6	216.8	217.0
115°	248.8	249.3	249.8	250.3	250.7	251.0	251.3	251.5	251.8	251.7	251.5
117.5°	284.0	284.3	284.5	284.7	285.0	285.2	285.4	285.6	285.9	286.0	286.1
120°	306.6	307.2	307.8	308.5	308.8	309.0	309.1	309.2	309.3	309.3	309.3
122.5°	330.1	330.3	330.5	330.8	331.0	331.4	331.7	332.0	332.4	332.3	332.2
125°	363.1	363.9	364.7	365.5	365.9	366.0	366.2	366.3	366.4	366.2	365.9
127.5°	397.4	397.8	398.2	398.7	399.0	399.1	399.3	399.4	399.6	399.5	399.3
130°	418.3	419.0	419.6	420.2	420.7	420.9	421.2	421.4	421.7	421.6	421.4
132.5°	439.5	440.5	441.5	442.6	443.1	443.0	443.0	442.9	442.9	442.8	442.6
135°	472.0	472.8	473.5	474.3	474.7	474.9	475.0	475.1	475.2	475.2	475.2
137.5°	502.9	503.6	504.3	505.1	505.6	505.9	506.1	506.4	506.8	506.9	507.1
140°	522.6	523.2	523.8	524.5	525.0	525.4	525.8	526.1	526.5	526.8	527.0
142.5°	542.3	542.8	543.4	543.9	544.4	544.9	545.4	545.9	546.3	546.5	546.6
145°	571.4	572.0	572.5	573.0	573.4	573.8	574.2	574.6	574.9	574.9	574.9
147.5°	598.1	598.4	598.7	599.1	599.3	599.6	600.0	600.3	600.6	600.9	601.2
150°	615.7	615.6	615.5	615.3	615.5	616.0	616.5	617.0	617.5	617.5	617.5
152.5°	630.8	631.0	631.2	631.3	631.5	631.7	631.9	632.1	632.4	632.7	633.0
155°	653.3	653.3	653.3	653.3	653.4	653.5	653.6	653.8	653.9	654.4	654.9
157.5°	673.3	673.0	672.8	672.5	672.4	672.5	672.7	672.8	672.9	673.4	673.9
160°	685.2	684.8	684.4	684.0	683.9	684.0	684.2	684.3	684.4	684.9	685.4
162.5°	695.9	695.6	695.3	695.0	694.9	694.9	695.0	695.0	695.0	695.6	696.2
165°	710.0	709.8	709.5	709.3	709.2	709.3	709.5	709.6	709.7	710.2	710.7
167.5°	721.9	721.2	720.7	720.2	720.0	720.0	720.0	720.0	720.0	720.7	721.5
170°	728.2	727.7	727.2	726.7	726.5	726.5	726.5	726.5	726.5	727.2	728.0
172.5°	732.9	732.4	731.8	731.3	731.0	731.0	731.0	731.0	731.0	731.8	732.7
175°	738.0	737.5	737.0	736.5	736.3	736.3	736.3	736.3	736.3	737.0	737.8
177.5°	740.8	740.4	740.0	739.5	739.3	739.2	739.1	739.0	738.9	739.5	740.1
180°	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1679.5	1683.8	1693.1	1689.8	1694.3	1696.4	1698.6
5°	1815.1	1836.9	1846.4	1845.1	1859.5	1856.0	1852.6
7.5°	1968.3	1991.3	2004.1	2020.0	2029.3	2029.9	2038.0
10°	2055.1	2085.1	2097.3	2114.4	2125.3	2131.4	2130.7
12.5°	2121.6	2145.1	2172.5	2180.9	2195.6	2203.3	2200.5
15°	2201.6	2239.1	2267.8	2282.0	2300.5	2305.9	2313.4
17.5°	2273.0	2323.3	2356.7	2401.2	2417.9	2428.1	2422.2
20°	2327.0	2393.2	2426.5	2479.7	2509.0	2524.7	2519.2
22.5°	2390.9	2462.4	2524.2	2570.2	2614.7	2635.9	2640.3
25°	2500.1	2598.3	2689.0	2749.7	2804.8	2817.7	2846.4
27.5°	2622.3	2738.0	2835.0	2898.7	2937.2	2951.6	2960.6
30°	2699.2	2814.4	2887.3	2928.2	2940.4	2939.1	2937.7
32.5°	2736.8	2808.9	2823.0	2811.5	2783.4	2759.7	2734.9
35°	2683.5	2629.7	2549.2	2445.6	2369.2	2292.3	2284.7
37.5°	2413.5	2241.3	2107.4	1957.8	1871.6	1818.3	1781.5
40°	2159.3	1963.7	1801.5	1675.4	1587.5	1552.7	1518.6
42.5°	1883.4	1696.6	1552.9	1447.4	1381.4	1342.8	1315.8
45°	1530.2	1365.2	1252.8	1176.5	1124.0	1094.0	1076.9
47.5°	1253.8	1131.9	1036.3	981.3	945.0	921.7	921.8
50°	1105.6	989.1	925.6	882.0	850.6	832.2	835.7
52.5°	974.1	887.1	832.9	796.4	773.3	761.9	761.5
55°	814.6	751.8	716.4	689.8	674.1	661.2	663.9
57.5°	696.7	643.9	620.2	598.0	587.1	582.0	574.4
60°	623.7	582.8	562.3	544.6	533.7	529.6	522.1
62.5°	558.8	526.6	506.8	492.2	482.4	481.1	475.2
65°	469.6	445.0	427.4	420.5	410.3	407.6	407.6
67.5°	387.2	369.6	355.8	349.5	345.1	345.7	342.4
70°	335.4	321.0	312.1	305.4	301.9	302.7	299.9
72.5°	293.4	277.4	269.6	265.6	261.1	262.9	261.8
75°	222.2	214.0	210.0	205.8	203.1	201.8	200.4
77.5°	163.2	155.9	152.8	150.5	150.9	147.6	150.3
80°	126.1	120.0	118.0	114.5	113.8	113.8	113.1
82.5°	92.3	88.9	87.4	84.5	83.3	84.4	82.6
85°	47.7	44.9	44.3	44.3	42.9	41.6	44.9
87.5°	19.7	17.7	17.8	17.3	17.4	16.9	15.9
90°	11.1	11.8	12.3	12.7	13.0	13.4	13.8
92.5°	24.6	25.5	26.1	26.4	26.7	26.9	27.2
95°	47.1	48.0	48.5	48.8	49.1	49.3	49.6
97.5°	73.2	74.0	74.5	74.6	74.8	74.9	75.1
100°	91.6	92.7	93.4	93.7	94.0	94.2	94.5
102.5°	110.4	111.6	112.4	112.8	113.1	113.5	113.8
105°	140.0	140.8	141.4	141.7	142.1	142.5	142.9
107.5°	172.2	172.5	172.7	172.7	172.7	172.6	172.6
110°	194.7	195.1	195.2	195.1	195.0	194.8	194.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	217.1	217.3	217.3	217.1	216.8	216.6	216.4
115°	251.4	251.3	251.2	251.0	250.9	250.7	250.6
117.5°	286.2	286.3	286.1	285.6	285.1	284.6	284.0
120°	309.3	309.3	309.1	308.6	308.1	307.6	307.1
122.5°	332.1	332.0	331.7	331.3	330.9	330.5	330.1
125°	365.7	365.4	365.2	365.1	365.0	364.8	364.7
127.5°	399.2	399.1	398.9	398.6	398.4	398.1	397.9
130°	421.3	421.2	421.0	420.7	420.5	420.2	420.0
132.5°	442.5	442.4	442.1	441.8	441.4	441.1	440.7
135°	475.2	475.2	475.0	474.5	474.0	473.5	473.0
137.5°	507.2	507.4	507.2	506.4	505.8	505.2	504.5
140°	527.4	527.6	527.4	526.7	526.1	525.4	524.8
142.5°	546.8	546.9	546.7	546.1	545.4	544.8	544.2
145°	574.9	574.9	574.7	574.4	574.0	573.6	573.2
147.5°	601.5	601.8	601.5	600.6	599.8	598.8	598.0
150°	617.5	617.5	617.4	617.2	616.9	616.7	616.4
152.5°	633.3	633.6	633.5	633.0	632.6	632.1	631.7
155°	655.4	655.9	655.9	655.2	654.6	653.9	653.3
157.5°	674.4	674.9	674.8	673.9	673.1	672.3	671.4
160°	685.9	686.4	686.4	685.8	685.1	684.5	683.9
162.5°	696.8	697.5	697.4	696.7	695.9	695.2	694.4
165°	711.2	711.9	711.7	710.9	710.1	709.3	708.6
167.5°	722.4	723.1	723.1	722.3	721.4	720.6	719.9
170°	728.7	729.5	729.4	728.6	727.7	726.8	725.9
172.5°	733.4	734.2	734.2	733.4	732.6	731.7	730.9
175°	738.5	739.3	739.2	738.4	737.5	736.6	735.7
177.5°	740.7	741.3	741.3	740.6	739.9	739.1	738.4
180°	740.3	740.3	740.3	740.3	740.3	740.3	740.3

(END OF REPORT)