

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: P333617-840

Luminaire Tested: **S125RDIP-S1270D590U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333617-840
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: S125RDIP-S1270D590U840-4F0-1E-UDD-A1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 590 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7035.6 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.22 / 1.47
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')
CIE Type: Semi-Direct

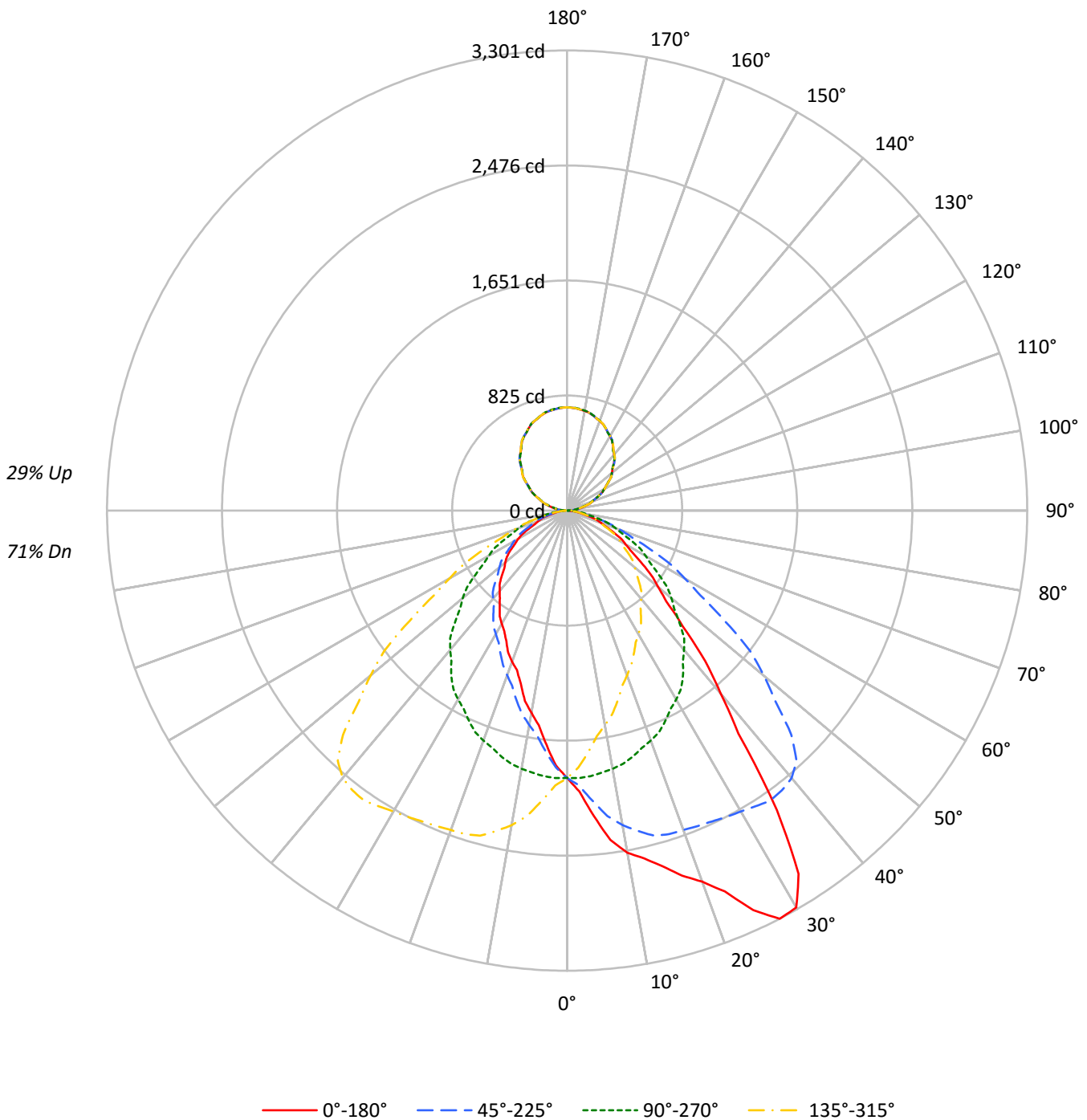
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	103	99	95	92	97	94	90	87	84	82	79	75	74	72	67	66	65	61
2	94	87	81	76	89	83	77	73	74	70	67	67	64	61	60	58	55	52
3	86	77	70	64	82	73	67	61	66	61	57	60	56	52	54	50	48	44
4	79	68	61	55	75	65	58	53	59	53	49	53	49	45	48	45	41	39
5	73	61	53	47	69	59	51	46	53	47	42	48	43	39	44	40	36	34
6	67	55	47	41	64	53	45	40	48	42	37	44	39	35	40	35	32	30
7	63	50	42	36	59	48	41	35	44	38	33	40	35	31	36	32	29	26
8	58	46	38	32	55	44	36	31	40	34	30	37	31	28	33	29	26	24
9	54	42	34	29	51	40	33	28	37	31	27	34	29	25	31	27	23	21
10	51	38	31	26	48	37	30	26	34	28	24	31	26	23	29	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12385	12385	12385	12385
5°	14249	12401	10952	12401
10°	16344	12338	9664	12338
15°	17653	12211	8590	12211
20°	19467	12065	7932	12065
25°	22528	11870	7360	11870
30°	24515	11665	6986	11665
35°	20679	11427	6641	11427
40°	14441	10997	6345	10997
45°	10714	10418	6054	10418
50°	8542	9815	5805	9815
55°	7250	9067	5584	9067
60°	6263	8400	5227	8400
65°	5582	7674	4499	7674
70°	4904	7030	4101	7030
75°	4245	6089	3850	6089
80°	3217	5121	3217	5121
85°	2690	4024	3031	4024



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.9	2.6
10°-20°	538.9	7.7
20°-30°	854.5	12.1
30°-40°	1030.4	14.6
40°-50°	920.2	13.1
50°-60°	705.7	10.0
60°-70°	458.6	6.5
70°-80°	223.0	3.2
80°-90°	54.8	0.8
90°-100°	49.6	0.7
100°-110°	146.4	2.1
110°-120°	248.0	3.5
120°-130°	326.4	4.6
130°-140°	365.7	5.2
140°-150°	358.4	5.1
150°-160°	301.1	4.3
160°-170°	200.1	2.8
170°-180°	70.0	1.0
0°-30°	1577.3	22.4
0°-40°	2607.7	37.1
0°-60°	4233.5	60.2
0°-90°	4969.9	70.6
90°-120°	444.0	6.3
90°-150°	1494.5	21.2
90°-180°	2066.0	29.4
0°-180°	7035.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1918	1918	1918	1918	1918	
5°	2198	1913	1689	1913	2198	220
15°	2640	1826	1285	1826	2640	757
25°	3161	1666	1033	1666	3161	1452
35°	2623	1449	842	1449	2623	1584
45°	1173	1141	663	1141	1173	936
55°	644	805	496	805	644	584
65°	365	502	294	502	365	363
75°	170	244	154	244	170	181
85°	36	54	41	54	36	42
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°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	2017.1	2015.9	2018.4	2011.4	2012.1	2001.4	2001.4	1993.2	1982.5	1974.3	1970.5
5°	2197.9	2199.5	2196.3	2184.4	2176.7	2164.8	2151.4	2127.8	2108.1	2089.2	2074.3
7.5°	2384.0	2385.1	2374.7	2371.1	2351.2	2336.7	2306.9	2274.8	2246.3	2210.2	2182.4
10°	2492.2	2491.5	2480.4	2471.8	2454.5	2432.5	2403.4	2365.5	2330.2	2290.8	2253.0
12.5°	2555.3	2553.2	2549.7	2539.2	2523.1	2503.7	2478.9	2441.8	2398.1	2355.0	2310.9
15°	2640.3	2634.7	2624.5	2611.1	2588.3	2565.5	2537.9	2504.9	2463.2	2414.4	2373.4
17.5°	2745.4	2745.6	2729.9	2711.3	2680.3	2640.0	2597.5	2544.1	2487.4	2433.7	2390.1
20°	2832.4	2829.9	2814.3	2778.0	2742.6	2692.2	2643.4	2578.1	2508.8	2438.7	2384.4
22.5°	2957.1	2950.9	2934.6	2887.0	2832.1	2767.1	2692.5	2612.7	2529.0	2449.4	2378.1
25°	3161.4	3156.6	3124.4	3069.3	2992.1	2892.2	2794.6	2685.1	2564.8	2460.0	2373.4
27.5°	3301.2	3296.0	3272.1	3226.3	3155.1	3049.9	2917.8	2771.6	2621.2	2477.2	2352.3
30°	3287.3	3299.1	3296.0	3274.8	3221.3	3126.7	3004.8	2840.2	2661.5	2492.2	2343.5
32.5°	3089.6	3100.2	3127.9	3169.6	3172.7	3134.9	3043.8	2891.8	2706.8	2514.4	2336.5
35°	2622.9	2637.2	2690.7	2774.9	2885.1	2977.2	2996.1	2914.3	2748.1	2541.1	2326.2
37.5°	2016.5	2094.0	2139.0	2227.7	2394.2	2563.6	2726.5	2786.5	2715.8	2530.1	2309.4
40°	1712.9	1731.8	1812.1	1912.1	2052.2	2228.6	2460.8	2628.5	2633.9	2504.9	2282.9
42.5°	1466.1	1490.1	1545.1	1625.0	1744.9	1921.3	2161.0	2382.3	2484.8	2435.6	2248.3
45°	1173.0	1191.0	1231.2	1292.6	1384.7	1530.3	1736.6	1992.4	2195.5	2275.0	2155.4
47.5°	963.5	973.3	1008.2	1055.0	1123.2	1229.3	1389.0	1611.0	1854.6	2025.5	2008.6
50°	850.2	861.2	888.0	923.4	980.9	1070.6	1198.1	1383.1	1634.3	1842.8	1884.6
52.5°	762.0	771.1	787.8	821.3	868.8	937.8	1040.7	1208.0	1434.0	1655.8	1752.3
55°	643.9	650.3	663.6	682.5	720.3	769.9	858.8	974.5	1157.2	1380.8	1522.5
57.5°	546.6	549.8	558.3	575.7	601.9	638.1	702.4	800.4	931.4	1132.8	1289.1
60°	484.9	488.1	499.1	510.9	531.4	564.4	614.8	683.3	809.2	975.3	1133.6
62.5°	435.8	437.7	442.4	454.2	472.2	497.7	537.3	593.2	693.4	839.3	988.8
65°	365.3	366.1	367.6	377.1	388.1	407.0	432.9	472.3	547.9	658.1	790.3
67.5°	297.6	298.6	304.2	307.5	319.0	328.9	344.2	374.3	427.5	501.8	604.6
70°	259.7	259.0	264.5	268.4	272.4	284.2	294.4	318.8	351.8	408.6	494.3
72.5°	224.5	222.5	224.8	226.2	231.5	239.4	249.7	264.7	290.1	329.2	394.9
75°	170.1	170.9	170.9	172.4	176.3	179.5	182.6	190.5	204.7	230.7	266.1
77.5°	119.4	118.1	121.4	121.9	124.2	127.6	130.4	133.5	139.4	150.1	168.3
80°	86.5	86.5	87.4	89.8	89.0	90.5	94.4	97.7	104.7	111.0	117.2
82.5°	66.4	65.8	66.6	67.1	67.0	68.5	69.9	70.5	73.2	76.3	80.8
85°	36.3	36.3	37.0	37.0	37.8	37.8	38.6	38.6	38.6	39.4	40.2
87.5°	16.7	16.0	15.2	15.1	15.7	16.9	16.1	15.3	15.1	15.0	15.6
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°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	1970.5	1966.1	1957.9	1950.4	1941.0	1932.8	1927.0	1920.2	1911.4	1900.7	1891.8
5°	2057.7	2040.4	2017.6	1997.9	1972.8	1953.1	1932.6	1912.9	1893.2	1868.0	1846.0
7.5°	2154.4	2118.7	2083.9	2040.1	2000.4	1965.0	1931.0	1896.5	1862.8	1827.0	1792.6
10°	2213.6	2170.3	2122.3	2067.2	2016.8	1968.8	1924.7	1881.4	1835.7	1795.6	1752.3
12.5°	2269.1	2213.1	2158.2	2088.6	2028.1	1969.4	1913.4	1859.4	1810.6	1758.5	1712.0
15°	2319.1	2264.0	2202.6	2117.6	2033.4	1962.5	1896.3	1826.3	1765.6	1707.5	1655.5
17.5°	2338.4	2280.7	2209.4	2127.7	2035.6	1946.4	1861.3	1784.4	1713.1	1645.3	1586.8
20°	2330.9	2275.0	2201.8	2123.8	2025.5	1932.6	1840.5	1755.4	1676.0	1604.3	1542.2
22.5°	2312.7	2254.8	2184.1	2101.8	2008.4	1910.0	1811.5	1720.8	1637.5	1563.4	1495.5
25°	2285.2	2206.6	2134.1	2053.8	1964.9	1867.2	1765.6	1665.7	1576.8	1501.2	1427.2
27.5°	2256.7	2158.5	2066.4	1986.6	1892.6	1805.5	1707.6	1605.1	1511.6	1434.6	1358.7
30°	2230.9	2120.7	2019.1	1928.6	1839.7	1757.1	1664.2	1564.2	1468.1	1388.7	1311.5
32.5°	2198.8	2081.6	1970.0	1865.6	1779.9	1697.9	1613.8	1518.2	1424.7	1342.6	1264.3
35°	2158.5	2008.9	1887.7	1776.8	1681.4	1601.9	1526.4	1449.3	1355.5	1270.5	1194.2
37.5°	2105.6	1935.9	1795.6	1674.7	1574.3	1494.4	1434.7	1364.2	1278.7	1197.3	1126.5
40°	2073.5	1883.0	1729.5	1609.8	1504.3	1420.1	1364.2	1304.4	1226.5	1150.1	1079.2
42.5°	2030.6	1834.5	1662.7	1538.0	1431.9	1350.8	1294.3	1242.0	1176.7	1104.8	1028.9
45°	1946.7	1740.5	1560.2	1426.4	1319.4	1239.8	1187.1	1140.6	1091.1	1024.9	958.8
47.5°	1837.4	1642.4	1453.8	1307.7	1202.9	1129.0	1077.8	1041.2	1005.7	949.5	885.2
50°	1750.0	1561.9	1377.6	1235.9	1124.1	1054.1	1006.0	976.9	944.6	893.4	839.9
52.5°	1646.7	1478.6	1298.3	1153.4	1047.9	982.3	936.1	907.1	880.4	838.7	787.7
55°	1483.9	1336.7	1171.3	1039.9	943.1	877.0	832.8	805.3	789.6	754.2	714.0
57.5°	1296.1	1190.5	1044.8	918.1	832.4	767.1	734.8	711.3	693.6	668.5	640.2
60°	1165.1	1091.1	960.4	839.9	761.2	699.0	669.9	650.3	633.7	612.5	590.4
62.5°	1032.2	978.4	864.6	761.2	688.8	636.7	609.5	591.7	572.6	558.3	536.8
65°	854.1	806.1	727.4	646.3	579.4	537.7	518.0	502.2	490.4	474.6	459.7
67.5°	664.4	644.9	590.6	534.6	486.7	449.5	432.5	421.5	407.3	397.9	387.6
70°	547.9	538.5	499.9	462.9	418.0	392.8	377.1	372.3	355.1	345.6	338.5
72.5°	444.6	440.2	418.0	392.3	360.7	338.6	324.2	318.8	307.8	300.2	295.7
75°	304.7	306.2	302.3	285.8	274.0	259.7	247.2	244.0	236.2	229.8	225.9
77.5°	192.7	200.8	201.1	200.3	195.5	186.9	181.7	179.4	171.6	169.3	168.3
80°	132.3	140.9	148.8	147.9	146.4	144.1	140.2	137.7	133.8	131.5	129.9
82.5°	88.2	96.2	102.8	107.0	106.7	104.4	101.7	100.6	99.8	98.1	97.8
85°	41.7	43.3	45.6	51.2	55.1	55.8	55.1	54.3	51.9	52.7	53.5
87.5°	16.0	15.8	16.3	16.1	15.2	18.2	19.8	20.3	19.2	18.2	17.1
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: P333617-840

CATALOG NUMBER: S125RDIP-S1270D590U840-4F0-1E-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: P333617-840

CATALOG NUMBER: S125RDIP-S1270D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	1885.5	1876.7	1870.4	1857.7	1849.0	1845.2	1838.3	1836.3	1843.3	1838.3	1837.7
5°	1829.5	1806.6	1788.6	1770.4	1750.7	1738.2	1719.3	1716.1	1711.4	1704.2	1702.7
7.5°	1762.2	1732.5	1709.2	1679.3	1653.3	1632.3	1608.7	1597.5	1591.4	1582.3	1570.0
10°	1716.9	1681.4	1650.0	1620.0	1587.8	1561.9	1538.2	1520.0	1508.2	1497.2	1492.6
12.5°	1672.1	1636.1	1595.8	1559.6	1523.6	1494.4	1468.2	1456.5	1443.4	1430.5	1419.5
15°	1602.8	1554.7	1510.7	1468.9	1438.2	1406.7	1381.5	1364.2	1344.5	1339.1	1317.8
17.5°	1529.0	1482.0	1430.4	1386.4	1350.8	1316.2	1288.5	1268.8	1254.1	1233.8	1224.0
20°	1483.1	1427.2	1376.8	1336.7	1297.3	1256.4	1228.0	1211.5	1197.3	1180.8	1173.0
22.5°	1434.0	1379.4	1327.7	1280.6	1240.6	1200.3	1180.1	1163.1	1146.9	1131.7	1121.3
25°	1361.9	1306.8	1252.4	1203.7	1162.0	1132.8	1109.1	1089.4	1080.9	1065.9	1054.8
27.5°	1290.5	1231.9	1175.6	1126.9	1094.2	1065.4	1046.0	1030.5	1014.8	1001.8	992.2
30°	1244.6	1184.8	1123.4	1084.8	1050.2	1022.6	1001.3	986.3	974.5	962.7	955.6
32.5°	1198.6	1136.9	1082.4	1040.7	1007.9	984.1	962.3	948.0	935.5	922.4	914.1
35°	1124.9	1062.0	1017.8	976.9	944.6	922.6	907.7	887.2	877.0	867.5	858.8
37.5°	1056.4	997.8	950.2	914.2	886.3	864.3	845.0	833.9	821.3	812.8	805.7
40°	1006.0	952.5	909.2	871.4	851.0	826.6	808.5	794.3	784.9	773.9	766.0
42.5°	960.7	911.0	868.9	835.0	809.4	788.8	771.3	757.1	745.2	737.3	730.6
45°	896.7	847.1	806.1	774.6	751.0	731.3	713.2	706.1	690.3	681.0	677.8
47.5°	830.3	786.0	746.4	717.4	693.2	674.6	657.6	643.2	634.5	625.2	620.2
50°	785.7	743.2	706.1	677.8	654.2	633.7	617.9	608.5	596.7	588.0	581.8
52.5°	740.9	701.6	664.6	637.4	617.0	596.5	579.0	569.5	558.3	552.8	548.4
55°	677.0	635.3	603.8	577.0	555.7	536.8	520.4	510.9	503.8	498.3	496.8
57.5°	604.6	571.5	542.2	518.2	496.0	478.3	463.8	454.8	448.6	447.8	443.0
60°	557.3	527.5	500.7	474.6	455.8	439.3	426.7	416.5	410.1	409.3	407.8
62.5°	510.1	481.4	456.6	433.7	416.8	400.8	388.9	377.4	373.7	369.7	366.2
65°	440.0	414.0	393.6	375.5	357.4	344.0	332.2	325.1	316.5	311.7	303.1
67.5°	371.2	351.1	331.4	316.2	301.9	289.2	279.4	268.9	263.1	259.3	253.0
70°	325.9	310.1	290.4	274.0	263.0	252.7	244.8	233.0	229.0	225.9	222.8
72.5°	283.1	269.2	252.7	239.3	228.3	218.6	209.5	204.0	200.2	196.9	195.1
75°	222.8	209.4	195.2	185.8	177.9	170.1	165.3	161.4	159.8	159.1	155.8
77.5°	163.6	156.5	145.1	137.6	132.4	129.3	125.0	123.0	122.8	119.4	118.3
80°	125.1	121.2	111.8	108.7	104.7	101.6	99.2	95.2	91.3	89.8	87.4
82.5°	93.0	89.1	85.3	80.3	77.0	75.1	72.7	71.3	71.8	69.6	68.5
85°	49.6	45.6	44.1	43.3	41.7	43.3	42.5	41.7	40.9	40.2	40.9
87.5°	16.7	16.9	16.5	17.9	16.2	17.0	17.1	16.6	16.7	16.9	16.4
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: P333617-840

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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: P333617-840

CATALOG NUMBER: S125RDIP-S1270D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	1837.0	1830.1	1828.2	1830.7	1828.2	1830.1	1837.0	1837.7	1838.3	1843.3	1836.3
5°	1694.9	1687.0	1690.9	1689.3	1690.9	1687.0	1694.9	1702.7	1704.2	1711.4	1716.1
7.5°	1569.8	1560.0	1549.6	1553.0	1549.6	1560.0	1569.8	1570.0	1582.3	1591.4	1597.5
10°	1482.3	1474.4	1469.7	1473.6	1469.7	1474.4	1482.3	1492.6	1497.2	1508.2	1520.0
12.5°	1408.7	1403.9	1399.8	1398.1	1399.8	1403.9	1408.7	1419.5	1430.5	1443.4	1456.5
15°	1308.3	1298.9	1294.9	1284.8	1294.9	1298.9	1308.3	1317.8	1339.1	1344.5	1364.2
17.5°	1215.9	1212.7	1202.5	1198.1	1202.5	1212.7	1215.9	1224.0	1233.8	1254.1	1268.8
20°	1161.1	1158.0	1147.7	1154.1	1147.7	1158.0	1161.1	1173.0	1180.8	1197.3	1211.5
22.5°	1115.8	1108.8	1105.5	1103.7	1105.5	1108.8	1115.8	1121.3	1131.7	1146.9	1163.1
25°	1051.7	1041.5	1037.5	1032.8	1037.5	1041.5	1051.7	1054.8	1065.9	1080.9	1089.4
27.5°	987.7	982.3	977.0	975.8	977.0	982.3	987.7	992.2	1001.8	1014.8	1030.5
30°	946.2	940.7	936.8	936.8	936.8	940.7	946.2	955.6	962.7	974.5	986.3
32.5°	909.1	904.8	900.9	900.3	900.9	904.8	909.1	914.1	922.4	935.5	948.0
35°	855.0	848.6	847.1	842.3	847.1	848.6	855.0	858.8	867.5	877.0	887.2
37.5°	798.7	793.5	793.3	792.8	793.3	793.5	798.7	805.7	812.8	821.3	833.9
40°	762.8	758.8	758.1	752.6	758.1	758.8	762.8	766.0	773.9	784.9	794.3
42.5°	724.4	722.4	719.6	717.3	719.6	722.4	724.4	730.6	737.3	745.2	757.1
45°	672.3	666.7	666.7	662.8	666.7	666.7	672.3	677.8	681.0	690.3	706.1
47.5°	618.4	614.2	614.6	610.6	614.6	614.2	618.4	620.2	625.2	634.5	643.2
50°	582.5	580.2	579.4	577.8	579.4	580.2	582.5	581.8	588.0	596.7	608.5
52.5°	546.6	545.5	548.6	545.0	548.6	545.5	546.6	548.4	552.8	558.3	569.5
55°	498.3	495.9	500.7	495.9	500.7	495.9	498.3	496.8	498.3	503.8	510.9
57.5°	442.7	440.5	444.7	442.4	444.7	440.5	442.7	443.0	447.8	448.6	454.8
60°	406.2	401.5	403.8	404.7	403.8	401.5	406.2	407.8	409.3	410.1	416.5
62.5°	362.7	359.9	361.6	358.0	361.6	359.9	362.7	366.2	369.7	373.7	377.4
65°	301.5	299.1	296.0	294.4	296.0	299.1	301.5	303.1	311.7	316.5	325.1
67.5°	253.3	247.6	247.5	248.7	247.5	247.6	253.3	253.0	259.3	263.1	268.9
70°	218.0	218.0	217.2	217.2	217.2	218.0	218.0	222.8	225.9	229.0	233.0
72.5°	193.5	192.9	191.5	190.9	191.5	192.9	193.5	195.1	196.9	200.2	204.0
75°	155.8	156.6	155.1	154.3	155.1	156.6	155.8	155.8	159.1	159.8	161.4
77.5°	115.1	111.8	113.5	111.8	113.5	111.8	115.1	118.3	119.4	122.8	123.0
80°	87.4	86.5	89.0	86.5	89.0	86.5	87.4	87.4	89.8	91.3	95.2
82.5°	69.1	68.4	69.5	67.7	69.5	68.4	69.1	68.5	69.6	71.8	71.3
85°	41.7	40.9	40.2	40.9	40.2	40.9	41.7	40.9	40.2	40.9	41.7
87.5°	17.1	16.5	16.6	16.7	16.6	16.5	17.1	16.4	16.9	16.7	16.6
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



TEST NUMBER: P333617-840

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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: P333617-840

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	1838.3	1845.2	1849.0	1857.7	1870.4	1876.7	1885.5	1891.8	1900.7	1911.4	1920.2
5°	1719.3	1738.2	1750.7	1770.4	1788.6	1806.6	1829.5	1846.0	1868.0	1893.2	1912.9
7.5°	1608.7	1632.3	1653.3	1679.3	1709.2	1732.5	1762.2	1792.6	1827.0	1862.8	1896.5
10°	1538.2	1561.9	1587.8	1620.0	1650.0	1681.4	1716.9	1752.3	1795.6	1835.7	1881.4
12.5°	1468.2	1494.4	1523.6	1559.6	1595.8	1636.1	1672.1	1712.0	1758.5	1810.6	1859.4
15°	1381.5	1406.7	1438.2	1468.9	1510.7	1554.7	1602.8	1655.5	1707.5	1765.6	1826.3
17.5°	1288.5	1316.2	1350.8	1386.4	1430.4	1482.0	1529.0	1586.8	1645.3	1713.1	1784.4
20°	1228.0	1256.4	1297.3	1336.7	1376.8	1427.2	1483.1	1542.2	1604.3	1676.0	1755.4
22.5°	1180.1	1200.3	1240.6	1280.6	1327.7	1379.4	1434.0	1495.5	1563.4	1637.5	1720.8
25°	1109.1	1132.8	1162.0	1203.7	1252.4	1306.8	1361.9	1427.2	1501.2	1576.8	1665.7
27.5°	1046.0	1065.4	1094.2	1126.9	1175.6	1231.9	1290.5	1358.7	1434.6	1511.6	1605.1
30°	1001.3	1022.6	1050.2	1084.8	1123.4	1184.8	1244.6	1311.5	1388.7	1468.1	1564.2
32.5°	962.3	984.1	1007.9	1040.7	1082.4	1136.9	1198.6	1264.3	1342.6	1424.7	1518.2
35°	907.7	922.6	944.6	976.9	1017.8	1062.0	1124.9	1194.2	1270.5	1355.5	1449.3
37.5°	845.0	864.3	886.3	914.2	950.2	997.8	1056.4	1126.5	1197.3	1278.7	1364.2
40°	808.5	826.6	851.0	871.4	909.2	952.5	1006.0	1079.2	1150.1	1226.5	1304.4
42.5°	771.3	788.8	809.4	835.0	868.9	911.0	960.7	1028.9	1104.8	1176.7	1242.0
45°	713.2	731.3	751.0	774.6	806.1	847.1	896.7	958.8	1024.9	1091.1	1140.6
47.5°	657.6	674.6	693.2	717.4	746.4	786.0	830.3	885.2	949.5	1005.7	1041.2
50°	617.9	633.7	654.2	677.8	706.1	743.2	785.7	839.9	893.4	944.6	976.9
52.5°	579.0	596.5	617.0	637.4	664.6	701.6	740.9	787.7	838.7	880.4	907.1
55°	520.4	536.8	555.7	577.0	603.8	635.3	677.0	714.0	754.2	789.6	805.3
57.5°	463.8	478.3	496.0	518.2	542.2	571.5	604.6	640.2	668.5	693.6	711.3
60°	426.7	439.3	455.8	474.6	500.7	527.5	557.3	590.4	612.5	633.7	650.3
62.5°	388.9	400.8	416.8	433.7	456.6	481.4	510.1	536.8	558.3	572.6	591.7
65°	332.2	344.0	357.4	375.5	393.6	414.0	440.0	459.7	474.6	490.4	502.2
67.5°	279.4	289.2	301.9	316.2	331.4	351.1	371.2	387.6	397.9	407.3	421.5
70°	244.8	252.7	263.0	274.0	290.4	310.1	325.9	338.5	345.6	355.1	372.3
72.5°	209.5	218.6	228.3	239.3	252.7	269.2	283.1	295.7	300.2	307.8	318.8
75°	165.3	170.1	177.9	185.8	195.2	209.4	222.8	225.9	229.8	236.2	244.0
77.5°	125.0	129.3	132.4	137.6	145.1	156.5	163.6	168.3	169.3	171.6	179.4
80°	99.2	101.6	104.7	108.7	111.8	121.2	125.1	129.9	131.5	133.8	137.7
82.5°	72.7	75.1	77.0	80.3	85.3	89.1	93.0	97.8	98.1	99.8	100.6
85°	42.5	43.3	41.7	43.3	44.1	45.6	49.6	53.5	52.7	51.9	54.3
87.5°	17.1	17.0	16.2	17.9	16.5	16.9	16.7	17.1	18.2	19.2	20.3
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



TEST NUMBER: P333617-840

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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°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	1927.0	1932.8	1941.0	1950.4	1957.9	1966.1	1970.5	1970.5	1974.3	1982.5	1993.2
5°	1932.6	1953.1	1972.8	1997.9	2017.6	2040.4	2057.7	2074.3	2089.2	2108.1	2127.8
7.5°	1931.0	1965.0	2000.4	2040.1	2083.9	2118.7	2154.4	2182.4	2210.2	2246.3	2274.8
10°	1924.7	1968.8	2016.8	2067.2	2122.3	2170.3	2213.6	2253.0	2290.8	2330.2	2365.5
12.5°	1913.4	1969.4	2028.1	2088.6	2158.2	2213.1	2269.1	2310.9	2355.0	2398.1	2441.8
15°	1896.3	1962.5	2033.4	2117.6	2202.6	2264.0	2319.1	2373.4	2414.4	2463.2	2504.9
17.5°	1861.3	1946.4	2035.6	2127.7	2209.4	2280.7	2338.4	2390.1	2433.7	2487.4	2544.1
20°	1840.5	1932.6	2025.5	2123.8	2201.8	2275.0	2330.9	2384.4	2438.7	2508.8	2578.1
22.5°	1811.5	1910.0	2008.4	2101.8	2184.1	2254.8	2312.7	2378.1	2449.4	2529.0	2612.7
25°	1765.6	1867.2	1964.9	2053.8	2134.1	2206.6	2285.2	2373.4	2460.0	2564.8	2685.1
27.5°	1707.6	1805.5	1892.6	1986.6	2066.4	2158.5	2256.7	2352.3	2477.2	2621.2	2771.6
30°	1664.2	1757.1	1839.7	1928.6	2019.1	2120.7	2230.9	2343.5	2492.2	2661.5	2840.2
32.5°	1613.8	1697.9	1779.9	1865.6	1970.0	2081.6	2198.8	2336.5	2514.4	2706.8	2891.8
35°	1526.4	1601.9	1681.4	1776.8	1887.7	2008.9	2158.5	2326.2	2541.1	2748.1	2914.3
37.5°	1434.7	1494.4	1574.3	1674.7	1795.6	1935.9	2105.6	2309.4	2530.1	2715.8	2786.5
40°	1364.2	1420.1	1504.3	1609.8	1729.5	1883.0	2073.5	2282.9	2504.9	2633.9	2628.5
42.5°	1294.3	1350.8	1431.9	1538.0	1662.7	1834.5	2030.6	2248.3	2435.6	2484.8	2382.3
45°	1187.1	1239.8	1319.4	1426.4	1560.2	1740.5	1946.7	2155.4	2275.0	2195.5	1992.4
47.5°	1077.8	1129.0	1202.9	1307.7	1453.8	1642.4	1837.4	2008.6	2025.5	1854.6	1611.0
50°	1006.0	1054.1	1124.1	1235.9	1377.6	1561.9	1750.0	1884.6	1842.8	1634.3	1383.1
52.5°	936.1	982.3	1047.9	1153.4	1298.3	1478.6	1646.7	1752.3	1655.8	1434.0	1208.0
55°	832.8	877.0	943.1	1039.9	1171.3	1336.7	1483.9	1522.5	1380.8	1157.2	974.5
57.5°	734.8	767.1	832.4	918.1	1044.8	1190.5	1296.1	1289.1	1132.8	931.4	800.4
60°	669.9	699.0	761.2	839.9	960.4	1091.1	1165.1	1133.6	975.3	809.2	683.3
62.5°	609.5	636.7	688.8	761.2	864.6	978.4	1032.2	988.8	839.3	693.4	593.2
65°	518.0	537.7	579.4	646.3	727.4	806.1	854.1	790.3	658.1	547.9	472.3
67.5°	432.5	449.5	486.7	534.6	590.6	644.9	664.4	604.6	501.8	427.5	374.3
70°	377.1	392.8	418.0	462.9	499.9	538.5	547.9	494.3	408.6	351.8	318.8
72.5°	324.2	338.6	360.7	392.3	418.0	440.2	444.6	394.9	329.2	290.1	264.7
75°	247.2	259.7	274.0	285.8	302.3	306.2	304.7	266.1	230.7	204.7	190.5
77.5°	181.7	186.9	195.5	200.3	201.1	200.8	192.7	168.3	150.1	139.4	133.5
80°	140.2	144.1	146.4	147.9	148.8	140.9	132.3	117.2	111.0	104.7	97.7
82.5°	101.7	104.4	106.7	107.0	102.8	96.2	88.2	80.8	76.3	73.2	70.5
85°	55.1	55.8	55.1	51.2	45.6	43.3	41.7	40.2	39.4	38.6	38.6
87.5°	19.8	18.2	15.2	16.1	16.3	15.8	16.0	15.6	15.0	15.1	15.3
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°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	2001.4	2001.4	2012.1	2011.4	2018.4	2015.9	2017.1
5°	2151.4	2164.8	2176.7	2184.4	2196.3	2199.5	2197.9
7.5°	2306.9	2336.7	2351.2	2371.1	2374.7	2385.1	2384.0
10°	2403.4	2432.5	2454.5	2471.8	2480.4	2491.5	2492.2
12.5°	2478.9	2503.7	2523.1	2539.2	2549.7	2553.2	2555.3
15°	2537.9	2565.5	2588.3	2611.1	2624.5	2634.7	2640.3
17.5°	2597.5	2640.0	2680.3	2711.3	2729.9	2745.6	2745.4
20°	2643.4	2692.2	2742.6	2778.0	2814.3	2829.9	2832.4
22.5°	2692.5	2767.1	2832.1	2887.0	2934.6	2950.9	2957.1
25°	2794.6	2892.2	2992.1	3069.3	3124.4	3156.6	3161.4
27.5°	2917.8	3049.9	3155.1	3226.3	3272.1	3296.0	3301.2
30°	3004.8	3126.7	3221.3	3274.8	3296.0	3299.1	3287.3
32.5°	3043.8	3134.9	3172.7	3169.6	3127.9	3100.2	3089.6
35°	2996.1	2977.2	2885.1	2774.9	2690.7	2637.2	2622.9
37.5°	2726.5	2563.6	2394.2	2227.7	2139.0	2094.0	2016.5
40°	2460.8	2228.6	2052.2	1912.1	1812.1	1731.8	1712.9
42.5°	2161.0	1921.3	1744.9	1625.0	1545.1	1490.1	1466.1
45°	1736.6	1530.3	1384.7	1292.6	1231.2	1191.0	1173.0
47.5°	1389.0	1229.3	1123.2	1055.0	1008.2	973.3	963.5
50°	1198.1	1070.6	980.9	923.4	888.0	861.2	850.2
52.5°	1040.7	937.8	868.8	821.3	787.8	771.1	762.0
55°	858.8	769.9	720.3	682.5	663.6	650.3	643.9
57.5°	702.4	638.1	601.9	575.7	558.3	549.8	546.6
60°	614.8	564.4	531.4	510.9	499.1	488.1	484.9
62.5°	537.3	497.7	472.2	454.2	442.4	437.7	435.8
65°	432.9	407.0	388.1	377.1	367.6	366.1	365.3
67.5°	344.2	328.9	319.0	307.5	304.2	298.6	297.6
70°	294.4	284.2	272.4	268.4	264.5	259.0	259.7
72.5°	249.7	239.4	231.5	226.2	224.8	222.5	224.5
75°	182.6	179.5	176.3	172.4	170.9	170.9	170.1
77.5°	130.4	127.6	124.2	121.9	121.4	118.1	119.4
80°	94.4	90.5	89.0	89.8	87.4	86.5	86.5
82.5°	69.9	68.5	67.0	67.1	66.6	65.8	66.4
85°	38.6	37.8	37.8	37.0	37.0	36.3	36.3
87.5°	16.1	16.9	15.7	15.1	15.2	16.0	16.7
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)