

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: P332739-840

Luminaire Tested: **S124DIW-S350D1560U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332739-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIW-S350D1560U840-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1560 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7896.1 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Indirect

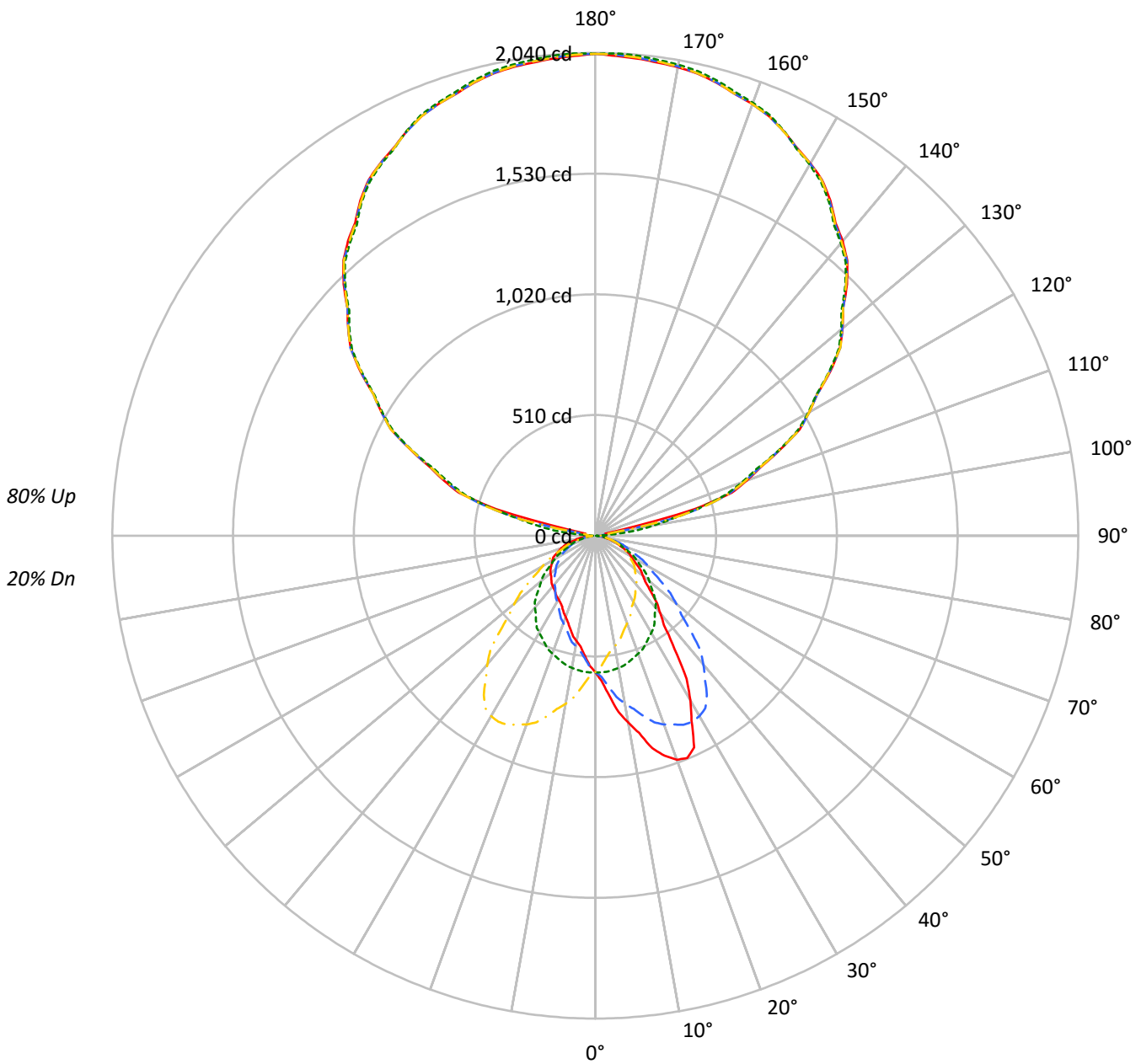
Input Watts (W): 53.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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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	50	30	10	0	
RCR																						
0	100	100	100	100	88	88	88	88	67	67	67	47	47	47	29	29	29	20				
1	91	87	83	80	80	77	74	71	58	56	55	41	40	39	25	25	24	17				
2	83	76	70	65	73	67	63	59	51	48	45	36	34	33	23	22	21	15				
3	76	67	60	54	67	59	54	49	45	41	38	32	30	28	20	19	18	12				
4	69	59	52	46	61	53	46	41	40	36	32	29	26	24	18	16	15	11				
5	63	52	45	39	56	47	40	35	36	31	28	26	23	20	16	15	13	9				
6	58	47	39	34	51	42	35	31	32	28	24	23	20	18	15	13	12	8				
7	54	42	35	29	47	38	31	27	29	24	21	21	18	16	13	12	10	7				
8	50	38	31	26	44	34	28	23	26	22	19	19	16	14	12	11	9	7				
9	46	35	28	23	41	31	25	21	24	20	16	17	14	12	11	10	8	6				
10	43	32	25	20	38	28	22	18	22	18	15	16	13	11	10	9	8	5				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4657	4657	4657	4657
5°	5485	4669	4122	4669
10°	6567	4649	3710	4649
15°	7770	4603	3408	4603
20°	8652	4554	3137	4554
25°	8792	4483	2950	4483
30°	7481	4416	2892	4416
35°	5752	4306	2893	4306
40°	4484	4176	2947	4176
45°	3738	3981	2997	3981
50°	3291	3743	3097	3743
55°	3015	3458	3222	3458
60°	2824	3202	3371	3202
65°	2628	2917	3498	2917
70°	2403	2634	3576	2634
75°	2149	2318	3534	2318
80°	1799	1901	3422	1901
85°	1325	1371	3270	1371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	0.7
10°-20°	173.3	2.2
20°-30°	274.7	3.5
30°-40°	305.7	3.9
40°-50°	278.3	3.5
50°-60°	227.4	2.9
60°-70°	162.4	2.1
70°-80°	89.4	1.1
80°-90°	30.3	0.4
90°-100°	69.6	0.9
100°-110°	444.0	5.6
110°-120°	849.4	10.8
120°-130°	1078.3	13.7
130°-140°	1153.7	14.6
140°-150°	1078.8	13.7
150°-160°	870.0	11.0
160°-170°	561.1	7.1
170°-180°	193.4	2.4
0°-30°	504.2	6.4
0°-40°	809.9	10.3
0°-60°	1315.6	16.7
0°-90°	1597.7	20.2
90°-120°	1363.1	17.3
90°-150°	4673.9	59.2
90°-180°	6298.0	79.8
0°-180°	7896.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	577	577	577	577	577	
5°	677	576	509	576	677	69
15°	930	551	408	551	930	263
25°	987	503	331	503	987	435
35°	584	437	294	437	584	370
45°	327	349	262	349	327	258
55°	214	246	229	246	214	193
65°	138	153	183	153	138	136
75°	69	74	113	74	69	73
85°	14	15	35	15	14	19
90°	46	4	46	4	46	20
95°	44	84	44	84	44	35
105°	434	458	434	458	434	379
115°	862	856	862	856	862	853
125°	1212	1203	1212	1203	1212	1080
135°	1503	1492	1503	1492	1503	1157
145°	1730	1721	1730	1721	1730	1081
155°	1885	1887	1885	1887	1885	869
165°	1981	1990	1981	1990	1981	560
175°	2024	2036	2024	2036	2024	193
180°	2036	2036	2036	2036	2036	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	614.0	613.9	612.0	611.6	610.3	608.5	608.1	605.0	599.0	596.0	595.3
5°	676.8	681.7	675.4	674.2	673.5	665.6	661.6	656.8	645.8	639.3	634.3
7.5°	751.8	752.3	749.6	747.5	741.3	734.5	724.2	713.2	700.0	686.5	676.2
10°	801.1	803.0	799.9	799.5	787.3	779.6	764.4	751.4	736.6	720.1	705.1
12.5°	853.1	850.5	848.9	838.7	836.4	822.4	804.7	791.4	768.5	749.5	729.5
15°	929.7	924.4	921.1	907.1	900.1	880.7	861.8	847.3	817.4	788.9	767.4
17.5°	974.6	979.9	972.2	966.3	948.5	934.8	915.5	884.9	861.6	826.3	799.1
20°	1007.1	1007.6	1003.3	997.3	983.3	966.0	945.0	911.6	883.6	848.5	811.1
22.5°	1015.9	1016.0	1014.2	1008.7	997.9	984.0	962.8	934.8	901.0	862.8	825.5
25°	987.0	986.1	988.3	994.5	990.5	986.1	973.9	953.1	921.6	881.2	841.0
27.5°	879.8	886.5	898.6	913.8	928.6	939.8	942.9	938.7	919.2	886.0	843.8
30°	802.5	810.7	819.8	835.1	864.7	881.7	900.3	914.4	906.6	880.0	840.8
32.5°	717.7	719.7	733.2	750.5	777.7	810.3	839.9	868.6	878.1	864.1	831.4
35°	583.6	587.0	601.6	618.7	652.0	692.0	736.4	776.1	808.8	821.9	805.2
37.5°	476.3	485.8	496.1	514.6	543.9	579.9	626.0	677.4	726.2	758.9	764.5
40°	425.5	431.4	438.8	452.9	477.8	513.1	552.8	611.6	663.5	710.3	725.6
42.5°	385.3	388.8	393.3	406.1	425.0	460.2	496.4	548.2	600.2	656.2	681.9
45°	327.4	331.0	338.7	346.1	360.4	384.8	418.5	461.0	513.4	567.3	614.7
47.5°	285.7	287.9	292.5	300.4	312.7	328.7	356.1	391.6	440.1	492.6	543.0
50°	262.0	263.9	267.4	274.6	284.0	298.3	320.7	354.0	391.9	444.7	494.2
52.5°	243.2	244.0	246.6	251.5	258.9	270.9	289.4	316.9	352.2	399.3	448.6
55°	214.2	215.1	217.5	221.1	227.5	235.2	249.2	269.8	300.6	341.5	384.4
57.5°	190.3	191.0	192.9	194.3	199.7	205.8	216.7	231.4	254.7	289.4	327.6
60°	174.9	174.5	176.8	178.0	181.7	186.9	195.3	209.3	229.6	257.6	292.8
62.5°	160.1	159.4	161.4	163.0	165.0	169.5	176.3	187.3	203.9	229.1	259.5
65°	137.6	136.7	137.9	139.9	141.7	144.1	149.2	159.0	172.1	190.3	213.4
67.5°	115.2	116.2	116.4	117.3	118.5	121.7	125.1	132.1	141.4	155.9	175.5
70°	101.8	102.1	103.0	103.0	103.7	106.6	109.5	113.5	122.6	136.0	152.0
72.5°	88.5	89.5	89.1	89.8	90.4	92.3	94.3	98.3	105.9	115.9	129.5
75°	68.9	69.6	69.6	69.8	70.5	71.2	72.9	75.7	81.3	88.7	98.0
77.5°	50.2	50.3	50.6	51.5	51.5	52.6	53.8	56.1	58.9	63.9	69.7
80°	38.7	39.2	39.0	39.5	39.5	40.4	40.9	43.7	44.9	48.3	52.8
82.5°	28.4	28.9	28.8	29.5	29.9	30.1	30.7	31.9	33.1	36.1	37.9
85°	14.3	14.8	14.3	14.8	15.6	15.8	16.5	16.8	17.7	18.4	20.1
87.5°	13.3	13.7	13.6	13.7	13.9	13.8	13.6	13.0	13.4	13.2	13.4
90°	45.6	45.0	44.3	43.6	43.0	41.6	39.6	37.6	35.5	33.5	30.8
92.5°	42.0	41.9	41.8	41.6	41.5	40.4	38.4	36.4	34.3	32.3	29.6
95°	44.1	43.8	43.5	43.1	42.8	41.6	39.6	37.6	35.5	33.5	33.1
97.5°	42.6	42.3	42.0	41.6	41.3	41.0	40.8	40.6	40.4	40.2	78.0
100°	42.6	42.3	42.0	41.6	41.3	44.0	49.8	55.5	61.3	67.1	113.7
102.5°	43.8	43.8	43.7	43.6	43.6	74.6	136.6	198.7	260.7	322.9	328.9
105°	434.0	446.3	458.4	470.6	482.7	487.4	484.3	481.2	478.2	475.1	473.4
107.5°	604.9	603.6	602.3	601.1	599.8	598.3	596.9	595.4	593.9	592.4	590.1
110°	679.2	678.2	677.2	676.2	675.2	674.3	673.7	673.0	672.3	671.6	669.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	753.6	752.2	750.9	749.7	748.4	747.8	747.9	748.1	748.2	748.4	747.4
115°	862.0	862.0	862.0	862.0	862.0	861.6	860.9	860.3	859.6	858.9	859.3
117.5°	972.2	972.4	972.5	972.6	972.8	972.9	973.0	973.2	973.3	973.4	972.7
120°	1041.7	1042.4	1043.0	1043.7	1044.4	1044.4	1043.7	1043.0	1042.4	1041.7	1042.0
122.5°	1109.9	1110.5	1111.3	1112.0	1112.6	1112.8	1112.4	1112.0	1111.6	1111.2	1110.6
125°	1212.2	1211.9	1211.5	1211.2	1210.9	1210.2	1209.2	1208.2	1207.2	1206.2	1206.8
127.5°	1302.1	1302.3	1302.6	1302.9	1303.1	1303.4	1303.6	1303.8	1304.0	1304.2	1302.6
130°	1363.0	1363.0	1363.0	1363.0	1363.0	1362.8	1362.5	1362.2	1361.8	1361.5	1360.5
132.5°	1419.1	1419.4	1419.6	1419.9	1420.2	1420.1	1419.8	1419.5	1419.1	1418.8	1417.4
135°	1503.1	1502.5	1501.8	1501.1	1500.5	1499.8	1499.0	1498.3	1497.7	1497.0	1495.7
137.5°	1575.0	1575.2	1575.4	1575.6	1575.8	1575.6	1574.8	1574.1	1573.3	1572.6	1571.0
140°	1625.0	1624.6	1624.3	1624.0	1623.6	1623.0	1621.9	1620.9	1619.9	1618.8	1618.2
142.5°	1666.4	1666.3	1666.3	1666.2	1666.1	1665.7	1665.0	1664.3	1663.4	1662.7	1662.3
145°	1730.0	1729.4	1728.7	1728.0	1727.4	1726.8	1726.5	1726.2	1725.8	1725.5	1725.5
147.5°	1782.7	1782.4	1782.0	1781.7	1781.4	1781.1	1780.8	1780.5	1780.3	1780.0	1780.3
150°	1816.8	1816.5	1816.1	1815.8	1815.5	1815.3	1815.3	1815.3	1815.3	1815.3	1815.6
152.5°	1846.0	1846.2	1846.4	1846.6	1846.8	1846.7	1846.1	1845.6	1845.1	1844.5	1845.1
155°	1885.4	1886.4	1887.4	1888.4	1889.5	1889.3	1887.9	1886.5	1885.2	1883.8	1884.9
157.5°	1918.2	1920.1	1921.8	1923.6	1925.3	1925.3	1923.6	1921.8	1920.1	1918.2	1919.5
160°	1940.2	1942.3	1944.3	1946.3	1948.3	1948.3	1946.3	1944.3	1942.3	1940.2	1940.6
162.5°	1957.2	1959.5	1961.9	1964.2	1966.4	1966.6	1964.6	1962.6	1960.5	1958.4	1958.8
165°	1981.4	1984.4	1987.4	1990.4	1993.5	1993.7	1990.9	1988.2	1985.5	1982.9	1982.9
167.5°	1999.3	2002.7	2006.1	2009.4	2012.9	2013.1	2010.0	2007.1	2004.1	2001.1	2001.4
170°	2010.2	2013.7	2017.0	2020.4	2023.8	2024.2	2021.4	2018.7	2016.0	2013.3	2013.0
172.5°	2016.3	2020.0	2023.7	2027.3	2030.9	2031.4	2028.7	2026.0	2023.3	2020.6	2020.2
175°	2024.0	2028.0	2032.1	2036.1	2040.2	2040.7	2037.7	2034.6	2031.5	2028.5	2028.2
177.5°	2028.8	2032.1	2035.3	2038.6	2041.8	2042.4	2040.2	2038.0	2035.9	2033.7	2033.2
180°	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	595.5	592.8	590.9	589.4	585.2	582.7	580.8	578.1	575.0	571.8	567.7
5°	629.2	621.2	615.2	606.1	597.5	590.4	582.9	576.2	568.2	559.3	552.8
7.5°	664.8	652.7	637.2	623.8	608.6	595.5	583.8	571.8	559.3	547.0	535.9
10°	687.4	671.9	654.6	634.3	615.2	598.2	582.5	567.1	552.3	537.6	524.8
12.5°	711.7	692.3	666.8	643.1	621.7	599.0	580.0	561.2	543.3	527.8	513.0
15°	744.3	716.3	686.9	655.1	626.9	600.4	574.3	550.7	530.6	510.0	495.6
17.5°	764.3	729.6	696.1	662.9	628.7	595.2	567.1	539.9	514.7	494.3	476.3
20°	777.5	743.1	701.3	668.0	627.4	593.0	560.5	530.1	503.8	482.1	463.4
22.5°	788.9	749.2	707.3	663.6	623.2	586.6	551.1	520.6	493.7	470.8	452.9
25°	795.2	749.5	704.1	660.6	614.7	571.5	539.2	503.3	474.6	450.5	431.4
27.5°	795.9	747.0	695.6	647.3	600.0	559.7	519.0	486.9	457.2	431.6	413.2
30°	793.8	742.9	687.6	635.3	587.7	544.0	508.6	473.7	443.3	418.0	398.9
32.5°	787.0	734.1	677.3	621.9	572.6	529.8	493.3	460.1	430.5	405.6	385.5
35°	767.7	715.3	654.9	597.2	546.8	503.6	470.6	436.9	407.3	383.6	364.3
37.5°	737.4	690.1	628.6	569.1	519.5	476.1	443.3	412.9	386.2	362.1	342.3
40°	711.0	669.4	607.7	549.7	496.1	454.8	424.2	396.3	369.7	347.0	328.1
42.5°	680.6	644.4	587.5	526.0	474.3	432.8	403.0	377.9	352.9	331.9	313.1
45°	626.4	602.5	549.0	492.1	438.3	399.1	370.7	348.7	327.7	307.1	291.3
47.5°	564.1	552.2	507.2	453.1	402.1	363.5	338.8	318.5	300.0	282.7	268.7
50°	522.2	516.4	477.6	425.5	376.7	340.3	315.5	298.0	282.3	267.0	253.8
52.5°	480.9	480.7	445.6	397.9	352.7	317.8	293.1	276.8	263.2	250.7	238.9
55°	417.8	424.4	397.0	354.5	314.1	282.5	260.2	245.7	236.1	225.9	217.0
57.5°	359.8	370.9	348.2	310.7	277.0	248.0	228.6	217.7	207.5	201.3	194.8
60°	321.9	332.4	314.8	283.3	251.5	226.6	208.1	198.3	189.6	185.2	180.7
62.5°	288.3	297.6	284.6	255.3	227.7	203.8	188.2	178.8	172.9	168.2	165.2
65°	240.2	248.1	236.8	215.6	191.9	172.8	160.2	152.7	147.0	145.1	141.7
67.5°	194.2	201.4	195.3	177.2	158.2	143.7	133.8	126.7	123.3	121.7	119.3
70°	166.8	174.0	167.5	151.8	137.1	125.0	115.6	111.6	108.1	107.3	104.0
72.5°	143.7	148.6	142.1	129.8	117.3	107.0	99.8	95.5	93.7	92.4	90.6
75°	107.8	112.1	107.8	98.3	89.4	82.2	76.0	74.3	72.2	71.5	70.3
77.5°	76.2	80.0	76.7	70.8	64.1	58.6	55.2	53.1	52.6	51.4	52.0
80°	58.3	60.7	57.6	53.5	48.3	44.4	42.1	40.9	39.5	39.0	39.9
82.5°	41.9	42.9	41.3	38.6	34.7	32.2	30.6	29.2	28.9	29.0	29.0
85°	21.7	21.5	21.3	18.9	17.7	16.1	15.0	14.8	14.5	15.0	15.6
87.5°	12.9	12.5	11.8	10.4	9.1	7.8	6.9	5.9	6.9	7.8	8.7
90°	28.1	25.3	22.7	19.5	15.8	12.0	8.3	4.5	8.3	12.0	15.8
92.5°	26.9	24.1	21.4	20.0	19.8	19.6	19.4	19.2	19.4	19.6	19.8
95°	32.8	32.5	32.1	37.8	49.3	60.8	72.2	83.7	72.2	60.8	49.3
97.5°	115.7	153.5	191.3	206.6	199.4	192.2	185.0	177.8	185.0	192.2	199.4
100°	160.4	207.1	253.8	274.1	268.0	262.0	255.9	249.7	255.9	262.0	268.0
102.5°	335.1	341.1	347.2	348.0	343.6	339.1	334.7	330.1	334.7	339.1	343.6
105°	471.8	470.1	468.4	466.6	464.5	462.4	460.4	458.4	460.4	462.4	464.5
107.5°	587.8	585.5	583.2	581.6	580.6	579.6	578.6	577.4	578.6	579.6	580.6
110°	667.5	665.5	663.5	662.0	661.0	659.9	658.9	657.9	658.9	659.9	661.0



TEST NUMBER: P332739-840

CATALOG NUMBER: S124DIW-S350D1560U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	746.5	745.5	744.6	743.2	741.3	739.5	737.7	735.9	737.7	739.5	741.3
115°	859.6	859.9	860.3	859.9	858.9	857.9	856.9	855.9	856.9	857.9	858.9
117.5°	972.0	971.2	970.5	969.5	968.1	966.7	965.3	964.0	965.3	966.7	968.1
120°	1042.4	1042.7	1043.0	1042.5	1041.2	1039.9	1038.4	1037.1	1038.4	1039.9	1041.2
122.5°	1110.1	1109.7	1109.2	1108.6	1107.7	1106.9	1106.1	1105.3	1106.1	1106.9	1107.7
125°	1207.5	1208.2	1208.8	1208.5	1207.2	1205.8	1204.5	1203.2	1204.5	1205.8	1207.2
127.5°	1301.1	1299.6	1298.0	1297.1	1296.7	1296.4	1296.1	1295.7	1296.1	1296.4	1296.7
130°	1359.5	1358.5	1357.5	1356.8	1356.5	1356.0	1355.7	1355.4	1355.7	1356.0	1356.5
132.5°	1416.1	1414.9	1413.6	1412.7	1412.1	1411.5	1410.8	1410.2	1410.8	1411.5	1412.1
135°	1494.3	1493.0	1491.6	1491.1	1491.5	1491.8	1492.1	1492.5	1492.1	1491.8	1491.5
137.5°	1569.6	1568.1	1566.6	1565.8	1565.7	1565.5	1565.4	1565.3	1565.4	1565.5	1565.7
140°	1617.5	1616.8	1616.2	1615.5	1614.8	1614.2	1613.5	1612.8	1613.5	1614.2	1614.8
142.5°	1661.9	1661.5	1661.1	1660.3	1659.1	1657.9	1656.6	1655.4	1656.6	1657.9	1659.1
145°	1725.5	1725.5	1725.5	1725.0	1723.9	1722.9	1721.9	1720.9	1721.9	1722.9	1723.9
147.5°	1780.7	1781.0	1781.3	1780.6	1778.7	1776.8	1774.8	1773.0	1774.8	1776.8	1778.7
150°	1816.0	1816.3	1816.6	1816.1	1814.8	1813.4	1812.1	1810.8	1812.1	1813.4	1814.8
152.5°	1845.7	1846.3	1847.0	1846.7	1845.6	1844.6	1843.5	1842.4	1843.5	1844.6	1845.6
155°	1885.9	1886.9	1887.9	1888.2	1887.9	1887.5	1887.2	1886.9	1887.2	1887.5	1887.9
157.5°	1920.6	1921.7	1922.9	1923.6	1923.8	1924.0	1924.2	1924.4	1924.2	1924.0	1923.8
160°	1940.9	1941.2	1941.6	1942.3	1943.3	1944.3	1945.3	1946.3	1945.3	1944.3	1943.3
162.5°	1959.1	1959.4	1959.8	1960.7	1962.0	1963.2	1964.5	1965.8	1964.5	1963.2	1962.0
165°	1982.9	1982.9	1982.9	1983.7	1985.4	1987.1	1988.7	1990.4	1988.7	1987.1	1985.4
167.5°	2001.6	2001.8	2002.0	2002.9	2004.7	2006.4	2008.2	2009.9	2008.2	2006.4	2004.7
170°	2012.7	2012.3	2012.0	2012.8	2014.8	2016.8	2018.9	2020.9	2018.9	2016.8	2014.8
172.5°	2019.9	2019.6	2019.2	2020.1	2022.2	2024.2	2026.2	2028.2	2026.2	2024.2	2022.2
175°	2027.8	2027.5	2027.2	2028.0	2030.0	2032.1	2034.1	2036.1	2034.1	2032.1	2030.0
177.5°	2032.7	2032.1	2031.5	2032.3	2034.1	2036.0	2037.9	2039.8	2037.9	2036.0	2034.1
180°	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	565.8	564.1	561.7	558.3	555.3	552.3	551.5	550.4	552.7	550.8	550.2
5°	547.3	542.3	535.8	528.5	524.1	518.0	516.7	514.3	511.9	511.7	509.3
7.5°	527.7	520.3	511.8	504.3	497.4	490.5	486.0	485.1	481.6	479.5	477.2
10°	515.0	505.9	496.1	489.0	480.9	473.7	468.7	465.9	463.4	460.8	458.4
12.5°	500.2	490.5	482.4	474.6	465.0	459.6	451.3	446.4	445.9	445.9	439.7
15°	482.8	473.2	460.8	449.8	444.5	434.0	429.5	423.7	420.2	416.6	413.7
17.5°	462.9	451.0	441.3	428.7	418.7	410.3	404.3	400.9	395.5	390.4	386.8
20°	450.5	437.9	427.6	414.1	403.2	392.9	387.9	383.1	379.1	374.8	370.7
22.5°	437.9	424.6	412.1	399.1	388.9	378.0	373.1	366.7	362.8	360.4	356.4
25°	418.0	403.6	389.3	376.9	366.4	356.8	350.4	345.4	341.0	339.1	336.5
27.5°	396.4	382.1	368.3	354.2	342.2	335.3	330.1	326.4	323.9	321.3	320.1
30°	382.6	367.8	353.0	339.8	328.9	321.9	317.2	314.6	312.7	311.4	310.2
32.5°	368.7	354.1	338.5	326.5	316.6	310.4	306.8	304.2	303.3	302.9	302.4
35°	346.3	331.5	317.2	306.4	297.1	294.7	291.5	290.1	289.6	291.3	292.1
37.5°	324.7	310.9	297.7	287.3	281.1	277.7	276.6	276.7	278.4	279.8	281.6
40°	310.7	297.3	284.9	275.8	270.0	267.9	267.4	268.6	270.5	272.3	274.2
42.5°	297.1	284.0	272.7	264.2	260.1	258.1	258.4	259.6	262.4	264.4	267.2
45°	276.1	265.1	254.1	247.1	243.8	244.3	244.3	246.4	249.0	252.2	255.3
47.5°	256.2	245.1	236.1	230.2	228.5	228.1	229.4	232.3	236.0	239.8	244.2
50°	242.9	232.3	224.4	219.1	217.2	217.9	219.8	222.5	227.0	231.9	236.4
52.5°	229.2	219.6	212.4	207.5	206.1	207.4	209.3	213.5	217.5	222.7	228.1
55°	208.1	200.1	194.3	190.8	190.3	191.0	193.1	197.6	203.4	209.8	215.1
57.5°	187.2	180.4	175.1	172.7	172.9	173.6	177.1	182.5	188.6	195.5	202.3
60°	173.0	166.8	162.5	160.6	160.9	162.3	166.6	171.6	179.3	185.9	193.1
62.5°	159.7	154.2	150.1	148.3	148.0	151.2	155.3	160.5	168.1	175.6	183.4
65°	138.1	133.8	130.5	129.6	130.3	132.7	137.9	144.8	151.3	159.2	167.3
67.5°	117.1	113.6	111.3	111.7	112.6	116.1	120.5	126.4	133.8	142.0	150.0
70°	103.7	100.4	98.5	98.7	100.2	104.4	108.3	114.2	122.1	130.5	137.1
72.5°	90.0	87.8	86.0	87.1	88.5	91.4	96.2	102.2	109.2	116.9	124.0
75°	69.1	69.1	68.2	68.9	71.0	73.8	77.5	83.6	90.6	96.8	102.5
77.5°	51.2	50.7	51.3	52.2	53.4	56.9	61.0	65.4	70.6	76.9	81.6
80°	39.2	39.5	40.6	42.1	42.5	45.1	49.5	53.5	57.6	62.8	67.4
82.5°	29.5	29.7	30.3	32.1	32.6	35.4	38.2	42.2	45.9	49.5	53.2
85°	16.1	16.1	17.2	18.0	19.1	21.0	22.7	25.1	28.5	30.8	34.4
87.5°	10.0	10.6	11.9	12.9	14.0	15.5	16.3	18.8	20.0	21.3	23.3
90°	19.5	22.7	25.3	28.1	30.8	33.5	35.5	37.6	39.6	41.6	43.0
92.5°	20.0	21.4	24.1	26.9	29.6	32.3	34.3	36.4	38.4	40.4	41.5
95°	37.8	32.1	32.5	32.8	33.1	33.5	35.5	37.6	39.6	41.6	42.8
97.5°	206.6	191.3	153.5	115.7	78.0	40.2	40.4	40.6	40.8	41.0	41.3
100°	274.1	253.8	207.1	160.4	113.7	67.1	61.3	55.5	49.8	44.0	41.3
102.5°	348.0	347.2	341.1	335.1	328.9	322.9	260.7	198.7	136.6	74.6	43.6
105°	466.6	468.4	470.1	471.8	473.4	475.1	478.2	481.2	484.3	487.4	482.7
107.5°	581.6	583.2	585.5	587.8	590.1	592.4	593.9	595.4	596.9	598.3	599.8
110°	662.0	663.5	665.5	667.5	669.5	671.6	672.3	673.0	673.7	674.3	675.2



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	743.2	744.6	745.5	746.5	747.4	748.4	748.2	748.1	747.9	747.8	748.4
115°	859.9	860.3	859.9	859.6	859.3	858.9	859.6	860.3	860.9	861.6	862.0
117.5°	969.5	970.5	971.2	972.0	972.7	973.4	973.3	973.2	973.0	972.9	972.8
120°	1042.5	1043.0	1042.7	1042.4	1042.0	1041.7	1042.4	1043.0	1043.7	1044.4	1044.4
122.5°	1108.6	1109.2	1109.7	1110.1	1110.6	1111.2	1111.6	1112.0	1112.4	1112.8	1112.6
125°	1208.5	1208.8	1208.2	1207.5	1206.8	1206.2	1207.2	1208.2	1209.2	1210.2	1210.9
127.5°	1297.1	1298.0	1299.6	1301.1	1302.6	1304.2	1304.0	1303.8	1303.6	1303.4	1303.1
130°	1356.8	1357.5	1358.5	1359.5	1360.5	1361.5	1361.8	1362.2	1362.5	1362.8	1363.0
132.5°	1412.7	1413.6	1414.9	1416.1	1417.4	1418.8	1419.1	1419.5	1419.8	1420.1	1420.2
135°	1491.1	1491.6	1493.0	1494.3	1495.7	1497.0	1497.7	1498.3	1499.0	1499.8	1500.5
137.5°	1565.8	1566.6	1568.1	1569.6	1571.0	1572.6	1573.3	1574.1	1574.8	1575.6	1575.8
140°	1615.5	1616.2	1616.8	1617.5	1618.2	1618.8	1619.9	1620.9	1621.9	1623.0	1623.6
142.5°	1660.3	1661.1	1661.5	1661.9	1662.3	1662.7	1663.4	1664.3	1665.0	1665.7	1666.1
145°	1725.0	1725.5	1725.5	1725.5	1725.5	1725.5	1725.8	1726.2	1726.5	1726.8	1727.4
147.5°	1780.6	1781.3	1781.0	1780.7	1780.3	1780.0	1780.3	1780.5	1780.8	1781.1	1781.4
150°	1816.1	1816.6	1816.3	1816.0	1815.6	1815.3	1815.3	1815.3	1815.3	1815.3	1815.5
152.5°	1846.7	1847.0	1846.3	1845.7	1845.1	1844.5	1845.1	1845.6	1846.1	1846.7	1846.8
155°	1888.2	1887.9	1886.9	1885.9	1884.9	1883.8	1885.2	1886.5	1887.9	1889.3	1889.5
157.5°	1923.6	1922.9	1921.7	1920.6	1919.5	1918.2	1920.1	1921.8	1923.6	1925.3	1925.3
160°	1942.3	1941.6	1941.2	1940.9	1940.6	1940.2	1942.3	1944.3	1946.3	1948.3	1948.3
162.5°	1960.7	1959.8	1959.4	1959.1	1958.8	1958.4	1960.5	1962.6	1964.6	1966.6	1966.4
165°	1983.7	1982.9	1982.9	1982.9	1982.9	1982.9	1985.5	1988.2	1990.9	1993.7	1993.5
167.5°	2002.9	2002.0	2001.8	2001.6	2001.4	2001.1	2004.1	2007.1	2010.0	2013.1	2012.9
170°	2012.8	2012.0	2012.3	2012.7	2013.0	2013.3	2016.0	2018.7	2021.4	2024.2	2023.8
172.5°	2020.1	2019.2	2019.6	2019.9	2020.2	2020.6	2023.3	2026.0	2028.7	2031.4	2030.9
175°	2028.0	2027.2	2027.5	2027.8	2028.2	2028.5	2031.5	2034.6	2037.7	2040.7	2040.2
177.5°	2032.3	2031.5	2032.1	2032.7	2033.2	2033.7	2035.9	2038.0	2040.2	2042.4	2041.8
180°	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1



TEST NUMBER: P332739-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	549.8	549.5	548.1	547.9	548.1	549.5	549.8	550.2	550.8	552.7	550.4
5°	507.9	506.6	505.9	508.6	505.9	506.6	507.9	509.3	511.7	511.9	514.3
7.5°	476.3	475.3	473.2	472.5	473.2	475.3	476.3	477.2	479.5	481.6	485.1
10°	456.1	455.0	453.1	452.6	453.1	455.0	456.1	458.4	460.8	463.4	465.9
12.5°	436.5	434.6	434.2	434.7	434.2	434.6	436.5	439.7	445.9	445.9	446.4
15°	410.6	409.6	407.0	407.8	407.0	409.6	410.6	413.7	416.6	420.2	423.7
17.5°	385.1	384.0	380.7	383.5	380.7	384.0	385.1	386.8	390.4	395.5	400.9
20°	369.0	367.1	365.5	365.2	365.5	367.1	369.0	370.7	374.8	379.1	383.1
22.5°	353.8	352.0	351.8	350.3	351.8	352.0	353.8	356.4	360.4	362.8	366.7
25°	334.6	333.0	332.4	331.2	332.4	333.0	334.6	336.5	339.1	341.0	345.4
27.5°	319.9	319.1	318.2	318.6	318.2	319.1	319.9	320.1	321.3	323.9	326.4
30°	310.9	310.7	310.2	310.2	310.2	310.7	310.9	310.2	311.4	312.7	314.6
32.5°	303.5	303.5	303.8	303.8	303.8	303.5	303.5	302.4	302.9	303.3	304.2
35°	293.1	293.8	294.2	293.5	294.2	293.8	293.1	292.1	291.3	289.6	290.1
37.5°	283.6	284.3	285.0	285.8	285.0	284.3	283.6	281.6	279.8	278.4	276.7
40°	276.3	277.9	278.4	279.6	278.4	277.9	276.3	274.2	272.3	270.5	268.6
42.5°	269.4	271.2	272.5	272.8	272.5	271.2	269.4	267.2	264.4	262.4	259.6
45°	258.8	260.7	262.5	262.5	262.5	260.7	258.8	255.3	252.2	249.0	246.4
47.5°	247.9	250.6	252.4	252.8	252.4	250.6	247.9	244.2	239.8	236.0	232.3
50°	240.4	243.8	245.5	246.6	245.5	243.8	240.4	236.4	231.9	227.0	222.5
52.5°	233.2	236.5	238.7	239.3	238.7	236.5	233.2	228.1	222.7	217.5	213.5
55°	220.6	225.4	228.0	228.9	228.0	225.4	220.6	215.1	209.8	203.4	197.6
57.5°	208.7	213.2	216.2	216.9	216.2	213.2	208.7	202.3	195.5	188.6	182.5
60°	199.5	204.4	208.1	208.8	208.1	204.4	199.5	193.1	185.9	179.3	171.6
62.5°	190.2	195.2	198.6	200.5	198.6	195.2	190.2	183.4	175.6	168.1	160.5
65°	174.0	179.0	182.4	183.1	182.4	179.0	174.0	167.3	159.2	151.3	144.8
67.5°	156.3	161.4	163.5	164.9	163.5	161.4	156.3	150.0	142.0	133.8	126.4
70°	143.9	147.9	150.4	151.5	150.4	147.9	143.9	137.1	130.5	122.1	114.2
72.5°	129.8	134.0	136.7	137.0	136.7	134.0	129.8	124.0	116.9	109.2	102.2
75°	108.1	111.9	113.3	113.3	113.3	111.9	108.1	102.5	96.8	90.6	83.6
77.5°	85.5	87.5	89.3	89.7	89.3	87.5	85.5	81.6	76.9	70.6	65.4
80°	71.0	72.2	73.6	73.6	73.6	72.2	71.0	67.4	62.8	57.6	53.5
82.5°	56.0	57.1	58.5	58.3	58.5	57.1	56.0	53.2	49.5	45.9	42.2
85°	33.9	36.1	35.9	35.3	35.9	36.1	33.9	34.4	30.8	28.5	25.1
87.5°	24.0	24.3	25.0	25.5	25.0	24.3	24.0	23.3	21.3	20.0	18.8
90°	43.6	44.3	45.0	45.6	45.0	44.3	43.6	43.0	41.6	39.6	37.6
92.5°	41.6	41.8	41.9	42.0	41.9	41.8	41.6	41.5	40.4	38.4	36.4
95°	43.1	43.5	43.8	44.1	43.8	43.5	43.1	42.8	41.6	39.6	37.6
97.5°	41.6	42.0	42.3	42.6	42.3	42.0	41.6	41.3	41.0	40.8	40.6
100°	41.6	42.0	42.3	42.6	42.3	42.0	41.6	41.3	44.0	49.8	55.5
102.5°	43.6	43.7	43.8	43.8	43.8	43.7	43.6	43.6	74.6	136.6	198.7
105°	470.6	458.4	446.3	434.0	446.3	458.4	470.6	482.7	487.4	484.3	481.2
107.5°	601.1	602.3	603.6	604.9	603.6	602.3	601.1	599.8	598.3	596.9	595.4
110°	676.2	677.2	678.2	679.2	678.2	677.2	676.2	675.2	674.3	673.7	673.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	749.7	750.9	752.2	753.6	752.2	750.9	749.7	748.4	747.8	747.9	748.1
115°	862.0	862.0	862.0	862.0	862.0	862.0	862.0	862.0	861.6	860.9	860.3
117.5°	972.6	972.5	972.4	972.2	972.4	972.5	972.6	972.8	972.9	973.0	973.2
120°	1043.7	1043.0	1042.4	1041.7	1042.4	1043.0	1043.7	1044.4	1044.4	1043.7	1043.0
122.5°	1112.0	1111.3	1110.5	1109.9	1110.5	1111.3	1112.0	1112.6	1112.8	1112.4	1112.0
125°	1211.2	1211.5	1211.9	1212.2	1211.9	1211.5	1211.2	1210.9	1210.2	1209.2	1208.2
127.5°	1302.9	1302.6	1302.3	1302.1	1302.3	1302.6	1302.9	1303.1	1303.4	1303.6	1303.8
130°	1363.0	1363.0	1363.0	1363.0	1363.0	1363.0	1363.0	1363.0	1362.8	1362.5	1362.2
132.5°	1419.9	1419.6	1419.4	1419.1	1419.4	1419.6	1419.9	1420.2	1420.1	1419.8	1419.5
135°	1501.1	1501.8	1502.5	1503.1	1502.5	1501.8	1501.1	1500.5	1499.8	1499.0	1498.3
137.5°	1575.6	1575.4	1575.2	1575.0	1575.2	1575.4	1575.6	1575.8	1575.6	1574.8	1574.1
140°	1624.0	1624.3	1624.6	1625.0	1624.6	1624.3	1624.0	1623.6	1623.0	1621.9	1620.9
142.5°	1666.2	1666.3	1666.3	1666.4	1666.3	1666.3	1666.2	1666.1	1665.7	1665.0	1664.3
145°	1728.0	1728.7	1729.4	1730.0	1729.4	1728.7	1728.0	1727.4	1726.8	1726.5	1726.2
147.5°	1781.7	1782.0	1782.4	1782.7	1782.4	1782.0	1781.7	1781.4	1781.1	1780.8	1780.5
150°	1815.8	1816.1	1816.5	1816.8	1816.5	1816.1	1815.8	1815.5	1815.3	1815.3	1815.3
152.5°	1846.6	1846.4	1846.2	1846.0	1846.2	1846.4	1846.6	1846.8	1846.7	1846.1	1845.6
155°	1888.4	1887.4	1886.4	1885.4	1886.4	1887.4	1888.4	1889.5	1889.3	1887.9	1886.5
157.5°	1923.6	1921.8	1920.1	1918.2	1920.1	1921.8	1923.6	1925.3	1925.3	1923.6	1921.8
160°	1946.3	1944.3	1942.3	1940.2	1942.3	1944.3	1946.3	1948.3	1948.3	1946.3	1944.3
162.5°	1964.2	1961.9	1959.5	1957.2	1959.5	1961.9	1964.2	1966.4	1966.6	1964.6	1962.6
165°	1990.4	1987.4	1984.4	1981.4	1984.4	1987.4	1990.4	1993.5	1993.7	1990.9	1988.2
167.5°	2009.4	2006.1	2002.7	1999.3	2002.7	2006.1	2009.4	2012.9	2013.1	2010.0	2007.1
170°	2020.4	2017.0	2013.7	2010.2	2013.7	2017.0	2020.4	2023.8	2024.2	2021.4	2018.7
172.5°	2027.3	2023.7	2020.0	2016.3	2020.0	2023.7	2027.3	2030.9	2031.4	2028.7	2026.0
175°	2036.1	2032.1	2028.0	2024.0	2028.0	2032.1	2036.1	2040.2	2040.7	2037.7	2034.6
177.5°	2038.6	2035.3	2032.1	2028.8	2032.1	2035.3	2038.6	2041.8	2042.4	2040.2	2038.0
180°	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	551.5	552.3	555.3	558.3	561.7	564.1	565.8	567.7	571.8	575.0	578.1
5°	516.7	518.0	524.1	528.5	535.8	542.3	547.3	552.8	559.3	568.2	576.2
7.5°	486.0	490.5	497.4	504.3	511.8	520.3	527.7	535.9	547.0	559.3	571.8
10°	468.7	473.7	480.9	489.0	496.1	505.9	515.0	524.8	537.6	552.3	567.1
12.5°	451.3	459.6	465.0	474.6	482.4	490.5	500.2	513.0	527.8	543.3	561.2
15°	429.5	434.0	444.5	449.8	460.8	473.2	482.8	495.6	510.0	530.6	550.7
17.5°	404.3	410.3	418.7	428.7	441.3	451.0	462.9	476.3	494.3	514.7	539.9
20°	387.9	392.9	403.2	414.1	427.6	437.9	450.5	463.4	482.1	503.8	530.1
22.5°	373.1	378.0	388.9	399.1	412.1	424.6	437.9	452.9	470.8	493.7	520.6
25°	350.4	356.8	366.4	376.9	389.3	403.6	418.0	431.4	450.5	474.6	503.3
27.5°	330.1	335.3	342.2	354.2	368.3	382.1	396.4	413.2	431.6	457.2	486.9
30°	317.2	321.9	328.9	339.8	353.0	367.8	382.6	398.9	418.0	443.3	473.7
32.5°	306.8	310.4	316.6	326.5	338.5	354.1	368.7	385.5	405.6	430.5	460.1
35°	291.5	294.7	297.1	306.4	317.2	331.5	346.3	364.3	383.6	407.3	436.9
37.5°	276.6	277.7	281.1	287.3	297.7	310.9	324.7	342.3	362.1	386.2	412.9
40°	267.4	267.9	270.0	275.8	284.9	297.3	310.7	328.1	347.0	369.7	396.3
42.5°	258.4	258.1	260.1	264.2	272.7	284.0	297.1	313.1	331.9	352.9	377.9
45°	244.3	244.3	243.8	247.1	254.1	265.1	276.1	291.3	307.1	327.7	348.7
47.5°	229.4	228.1	228.5	230.2	236.1	245.1	256.2	268.7	282.7	300.0	318.5
50°	219.8	217.9	217.2	219.1	224.4	232.3	242.9	253.8	267.0	282.3	298.0
52.5°	209.3	207.4	206.1	207.5	212.4	219.6	229.2	238.9	250.7	263.2	276.8
55°	193.1	191.0	190.3	190.8	194.3	200.1	208.1	217.0	225.9	236.1	245.7
57.5°	177.1	173.6	172.9	172.7	175.1	180.4	187.2	194.8	201.3	207.5	217.7
60°	166.6	162.3	160.9	160.6	162.5	166.8	173.0	180.7	185.2	189.6	198.3
62.5°	155.3	151.2	148.0	148.3	150.1	154.2	159.7	165.2	168.2	172.9	178.8
65°	137.9	132.7	130.3	129.6	130.5	133.8	138.1	141.7	145.1	147.0	152.7
67.5°	120.5	116.1	112.6	111.7	111.3	113.6	117.1	119.3	121.7	123.3	126.7
70°	108.3	104.4	100.2	98.7	98.5	100.4	103.7	104.0	107.3	108.1	111.6
72.5°	96.2	91.4	88.5	87.1	86.0	87.8	90.0	90.6	92.4	93.7	95.5
75°	77.5	73.8	71.0	68.9	68.2	69.1	69.1	70.3	71.5	72.2	74.3
77.5°	61.0	56.9	53.4	52.2	51.3	50.7	51.2	52.0	51.4	52.6	53.1
80°	49.5	45.1	42.5	42.1	40.6	39.5	39.2	39.9	39.0	39.5	40.9
82.5°	38.2	35.4	32.6	32.1	30.3	29.7	29.5	29.0	29.0	28.9	29.2
85°	22.7	21.0	19.1	18.0	17.2	16.1	16.1	15.6	15.0	14.5	14.8
87.5°	16.3	15.5	14.0	12.9	11.9	10.6	10.0	8.7	7.8	6.9	5.9
90°	35.5	33.5	30.8	28.1	25.3	22.7	19.5	15.8	12.0	8.3	4.5
92.5°	34.3	32.3	29.6	26.9	24.1	21.4	20.0	19.8	19.6	19.4	19.2
95°	35.5	33.5	33.1	32.8	32.5	32.1	37.8	49.3	60.8	72.2	83.7
97.5°	40.4	40.2	78.0	115.7	153.5	191.3	206.6	199.4	192.2	185.0	177.8
100°	61.3	67.1	113.7	160.4	207.1	253.8	274.1	268.0	262.0	255.9	249.7
102.5°	260.7	322.9	328.9	335.1	341.1	347.2	348.0	343.6	339.1	334.7	330.1
105°	478.2	475.1	473.4	471.8	470.1	468.4	466.6	464.5	462.4	460.4	458.4
107.5°	593.9	592.4	590.1	587.8	585.5	583.2	581.6	580.6	579.6	578.6	577.4
110°	672.3	671.6	669.5	667.5	665.5	663.5	662.0	661.0	659.9	658.9	657.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	748.2	748.4	747.4	746.5	745.5	744.6	743.2	741.3	739.5	737.7	735.9
115°	859.6	858.9	859.3	859.6	859.9	860.3	859.9	858.9	857.9	856.9	855.9
117.5°	973.3	973.4	972.7	972.0	971.2	970.5	969.5	968.1	966.7	965.3	964.0
120°	1042.4	1041.7	1042.0	1042.4	1042.7	1043.0	1042.5	1041.2	1039.9	1038.4	1037.1
122.5°	1111.6	1111.2	1110.6	1110.1	1109.7	1109.2	1108.6	1107.7	1106.9	1106.1	1105.3
125°	1207.2	1206.2	1206.8	1207.5	1208.2	1208.8	1208.5	1207.2	1205.8	1204.5	1203.2
127.5°	1304.0	1304.2	1302.6	1301.1	1299.6	1298.0	1297.1	1296.7	1296.4	1296.1	1295.7
130°	1361.8	1361.5	1360.5	1359.5	1358.5	1357.5	1356.8	1356.5	1356.0	1355.7	1355.4
132.5°	1419.1	1418.8	1417.4	1416.1	1414.9	1413.6	1412.7	1412.1	1411.5	1410.8	1410.2
135°	1497.7	1497.0	1495.7	1494.3	1493.0	1491.6	1491.1	1491.5	1491.8	1492.1	1492.5
137.5°	1573.3	1572.6	1571.0	1569.6	1568.1	1566.6	1565.8	1565.7	1565.5	1565.4	1565.3
140°	1619.9	1618.8	1618.2	1617.5	1616.8	1616.2	1615.5	1614.8	1614.2	1613.5	1612.8
142.5°	1663.4	1662.7	1662.3	1661.9	1661.5	1661.1	1660.3	1659.1	1657.9	1656.6	1655.4
145°	1725.8	1725.5	1725.5	1725.5	1725.5	1725.5	1725.0	1723.9	1722.9	1721.9	1720.9
147.5°	1780.3	1780.0	1780.3	1780.7	1781.0	1781.3	1780.6	1778.7	1776.8	1774.8	1773.0
150°	1815.3	1815.3	1815.6	1816.0	1816.3	1816.6	1816.1	1814.8	1813.4	1812.1	1810.8
152.5°	1845.1	1844.5	1845.1	1845.7	1846.3	1847.0	1846.7	1845.6	1844.6	1843.5	1842.4
155°	1885.2	1883.8	1884.9	1885.9	1886.9	1887.9	1888.2	1887.9	1887.5	1887.2	1886.9
157.5°	1920.1	1918.2	1919.5	1920.6	1921.7	1922.9	1923.6	1923.8	1924.0	1924.2	1924.4
160°	1942.3	1940.2	1940.6	1940.9	1941.2	1941.6	1942.3	1943.3	1944.3	1945.3	1946.3
162.5°	1960.5	1958.4	1958.8	1959.1	1959.4	1959.8	1960.7	1962.0	1963.2	1964.5	1965.8
165°	1985.5	1982.9	1982.9	1982.9	1982.9	1982.9	1983.7	1985.4	1987.1	1988.7	1990.4
167.5°	2004.1	2001.1	2001.4	2001.6	2001.8	2002.0	2002.9	2004.7	2006.4	2008.2	2009.9
170°	2016.0	2013.3	2013.0	2012.7	2012.3	2012.0	2012.8	2014.8	2016.8	2018.9	2020.9
172.5°	2023.3	2020.6	2020.2	2019.9	2019.6	2019.2	2020.1	2022.2	2024.2	2026.2	2028.2
175°	2031.5	2028.5	2028.2	2027.8	2027.5	2027.2	2028.0	2030.0	2032.1	2034.1	2036.1
177.5°	2035.9	2033.7	2033.2	2032.7	2032.1	2031.5	2032.3	2034.1	2036.0	2037.9	2039.8
180°	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	580.8	582.7	585.2	589.4	590.9	592.8	595.5	595.3	596.0	599.0	605.0
5°	582.9	590.4	597.5	606.1	615.2	621.2	629.2	634.3	639.3	645.8	656.8
7.5°	583.8	595.5	608.6	623.8	637.2	652.7	664.8	676.2	686.5	700.0	713.2
10°	582.5	598.2	615.2	634.3	654.6	671.9	687.4	705.1	720.1	736.6	751.4
12.5°	580.0	599.0	621.7	643.1	666.8	692.3	711.7	729.5	749.5	768.5	791.4
15°	574.3	600.4	626.9	655.1	686.9	716.3	744.3	767.4	788.9	817.4	847.3
17.5°	567.1	595.2	628.7	662.9	696.1	729.6	764.3	799.1	826.3	861.6	884.9
20°	560.5	593.0	627.4	668.0	701.3	743.1	777.5	811.1	848.5	883.6	911.6
22.5°	551.1	586.6	623.2	663.6	707.3	749.2	788.9	825.5	862.8	901.0	934.8
25°	539.2	571.5	614.7	660.6	704.1	749.5	795.2	841.0	881.2	921.6	953.1
27.5°	519.0	559.7	600.0	647.3	695.6	747.0	795.9	843.8	886.0	919.2	938.7
30°	508.6	544.0	587.7	635.3	687.6	742.9	793.8	840.8	880.0	906.6	914.4
32.5°	493.3	529.8	572.6	621.9	677.3	734.1	787.0	831.4	864.1	878.1	868.6
35°	470.6	503.6	546.8	597.2	654.9	715.3	767.7	805.2	821.9	808.8	776.1
37.5°	443.3	476.1	519.5	569.1	628.6	690.1	737.4	764.5	758.9	726.2	677.4
40°	424.2	454.8	496.1	549.7	607.7	669.4	711.0	725.6	710.3	663.5	611.6
42.5°	403.0	432.8	474.3	526.0	587.5	644.4	680.6	681.9	656.2	600.2	548.2
45°	370.7	399.1	438.3	492.1	549.0	602.5	626.4	614.7	567.3	513.4	461.0
47.5°	338.8	363.5	402.1	453.1	507.2	552.2	564.1	543.0	492.6	440.1	391.6
50°	315.5	340.3	376.7	425.5	477.6	516.4	522.2	494.2	444.7	391.9	354.0
52.5°	293.1	317.8	352.7	397.9	445.6	480.7	480.9	448.6	399.3	352.2	316.9
55°	260.2	282.5	314.1	354.5	397.0	424.4	417.8	384.4	341.5	300.6	269.8
57.5°	228.6	248.0	277.0	310.7	348.2	370.9	359.8	327.6	289.4	254.7	231.4
60°	208.1	226.6	251.5	283.3	314.8	332.4	321.9	292.8	257.6	229.6	209.3
62.5°	188.2	203.8	227.7	255.3	284.6	297.6	288.3	259.5	229.1	203.9	187.3
65°	160.2	172.8	191.9	215.6	236.8	248.1	240.2	213.4	190.3	172.1	159.0
67.5°	133.8	143.7	158.2	177.2	195.3	201.4	194.2	175.5	155.9	141.4	132.1
70°	115.6	125.0	137.1	151.8	167.5	174.0	166.8	152.0	136.0	122.6	113.5
72.5°	99.8	107.0	117.3	129.8	142.1	148.6	143.7	129.5	115.9	105.9	98.3
75°	76.0	82.2	89.4	98.3	107.8	112.1	107.8	98.0	88.7	81.3	75.7
77.5°	55.2	58.6	64.1	70.8	76.7	80.0	76.2	69.7	63.9	58.9	56.1
80°	42.1	44.4	48.3	53.5	57.6	60.7	58.3	52.8	48.3	44.9	43.7
82.5°	30.6	32.2	34.7	38.6	41.3	42.9	41.9	37.9	36.1	33.1	31.9
85°	15.0	16.1	17.7	18.9	21.3	21.5	21.7	20.1	18.4	17.7	16.8
87.5°	6.9	7.8	9.1	10.4	11.8	12.5	12.9	13.4	13.2	13.4	13.0
90°	8.3	12.0	15.8	19.5	22.7	25.3	28.1	30.8	33.5	35.5	37.6
92.5°	19.4	19.6	19.8	20.0	21.4	24.1	26.9	29.6	32.3	34.3	36.4
95°	72.2	60.8	49.3	37.8	32.1	32.5	32.8	33.1	33.5	35.5	37.6
97.5°	185.0	192.2	199.4	206.6	191.3	153.5	115.7	78.0	40.2	40.4	40.6
100°	255.9	262.0	268.0	274.1	253.8	207.1	160.4	113.7	67.1	61.3	55.5
102.5°	334.7	339.1	343.6	348.0	347.2	341.1	335.1	328.9	322.9	260.7	198.7
105°	460.4	462.4	464.5	466.6	468.4	470.1	471.8	473.4	475.1	478.2	481.2
107.5°	578.6	579.6	580.6	581.6	583.2	585.5	587.8	590.1	592.4	593.9	595.4
110°	658.9	659.9	661.0	662.0	663.5	665.5	667.5	669.5	671.6	672.3	673.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	737.7	739.5	741.3	743.2	744.6	745.5	746.5	747.4	748.4	748.2	748.1
115°	856.9	857.9	858.9	859.9	860.3	859.9	859.6	859.3	858.9	859.6	860.3
117.5°	965.3	966.7	968.1	969.5	970.5	971.2	972.0	972.7	973.4	973.3	973.2
120°	1038.4	1039.9	1041.2	1042.5	1043.0	1042.7	1042.4	1042.0	1041.7	1042.4	1043.0
122.5°	1106.1	1106.9	1107.7	1108.6	1109.2	1109.7	1110.1	1110.6	1111.2	1111.6	1112.0
125°	1204.5	1205.8	1207.2	1208.5	1208.8	1208.2	1207.5	1206.8	1206.2	1207.2	1208.2
127.5°	1296.1	1296.4	1296.7	1297.1	1298.0	1299.6	1301.1	1302.6	1304.2	1304.0	1303.8
130°	1355.7	1356.0	1356.5	1356.8	1357.5	1358.5	1359.5	1360.5	1361.5	1361.8	1362.2
132.5°	1410.8	1411.5	1412.1	1412.7	1413.6	1414.9	1416.1	1417.4	1418.8	1419.1	1419.5
135°	1492.1	1491.8	1491.5	1491.1	1491.6	1493.0	1494.3	1495.7	1497.0	1497.7	1498.3
137.5°	1565.4	1565.5	1565.7	1565.8	1566.6	1568.1	1569.6	1571.0	1572.6	1573.3	1574.1
140°	1613.5	1614.2	1614.8	1615.5	1616.2	1616.8	1617.5	1618.2	1618.8	1619.9	1620.9
142.5°	1656.6	1657.9	1659.1	1660.3	1661.1	1661.5	1661.9	1662.3	1662.7	1663.4	1664.3
145°	1721.9	1722.9	1723.9	1725.0	1725.5	1725.5	1725.5	1725.5	1725.5	1725.8	1726.2
147.5°	1774.8	1776.8	1778.7	1780.6	1781.3	1781.0	1780.7	1780.3	1780.0	1780.3	1780.5
150°	1812.1	1813.4	1814.8	1816.1	1816.6	1816.3	1816.0	1815.6	1815.3	1815.3	1815.3
152.5°	1843.5	1844.6	1845.6	1846.7	1847.0	1846.3	1845.7	1845.1	1844.5	1845.1	1845.6
155°	1887.2	1887.5	1887.9	1888.2	1887.9	1886.9	1885.9	1884.9	1883.8	1885.2	1886.5
157.5°	1924.2	1924.0	1923.8	1923.6	1922.9	1921.7	1920.6	1919.5	1918.2	1920.1	1921.8
160°	1945.3	1944.3	1943.3	1942.3	1941.6	1941.2	1940.9	1940.6	1940.2	1942.3	1944.3
162.5°	1964.5	1963.2	1962.0	1960.7	1959.8	1959.4	1959.1	1958.8	1958.4	1960.5	1962.6
165°	1988.7	1987.1	1985.4	1983.7	1982.9	1982.9	1982.9	1982.9	1982.9	1985.5	1988.2
167.5°	2008.2	2006.4	2004.7	2002.9	2002.0	2001.8	2001.6	2001.4	2001.1	2004.1	2007.1
170°	2018.9	2016.8	2014.8	2012.8	2012.0	2012.3	2012.7	2013.0	2013.3	2016.0	2018.7
172.5°	2026.2	2024.2	2022.2	2020.1	2019.2	2019.6	2019.9	2020.2	2020.6	2023.3	2026.0
175°	2034.1	2032.1	2030.0	2028.0	2027.2	2027.5	2027.8	2028.2	2028.5	2031.5	2034.6
177.5°	2037.9	2036.0	2034.1	2032.3	2031.5	2032.1	2032.7	2033.2	2033.7	2035.9	2038.0
180°	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	608.1	608.5	610.3	611.6	612.0	613.9	614.0
5°	661.6	665.6	673.5	674.2	675.4	681.7	676.8
7.5°	724.2	734.5	741.3	747.5	749.6	752.3	751.8
10°	764.4	779.6	787.3	799.5	799.9	803.0	801.1
12.5°	804.7	822.4	836.4	838.7	848.9	850.5	853.1
15°	861.8	880.7	900.1	907.1	921.1	924.4	929.7
17.5°	915.5	934.8	948.5	966.3	972.2	979.9	974.6
20°	945.0	966.0	983.3	997.3	1003.3	1007.6	1007.1
22.5°	962.8	984.0	997.9	1008.7	1014.2	1016.0	1015.9
25°	973.9	986.1	990.5	994.5	988.3	986.1	987.0
27.5°	942.9	939.8	928.6	913.8	898.6	886.5	879.8
30°	900.3	881.7	864.7	835.1	819.8	810.7	802.5
32.5°	839.9	810.3	777.7	750.5	733.2	719.7	717.7
35°	736.4	692.0	652.0	618.7	601.6	587.0	583.6
37.5°	626.0	579.9	543.9	514.6	496.1	485.8	476.3
40°	552.8	513.1	477.8	452.9	438.8	431.4	425.5
42.5°	496.4	460.2	425.0	406.1	393.3	388.8	385.3
45°	418.5	384.8	360.4	346.1	338.7	331.0	327.4
47.5°	356.1	328.7	312.7	300.4	292.5	287.9	285.7
50°	320.7	298.3	284.0	274.6	267.4	263.9	262.0
52.5°	289.4	270.9	258.9	251.5	246.6	244.0	243.2
55°	249.2	235.2	227.5	221.1	217.5	215.1	214.2
57.5°	216.7	205.8	199.7	194.3	192.9	191.0	190.3
60°	195.3	186.9	181.7	178.0	176.8	174.5	174.9
62.5°	176.3	169.5	165.0	163.0	161.4	159.4	160.1
65°	149.2	144.1	141.7	139.9	137.9	136.7	137.6
67.5°	125.1	121.7	118.5	117.3	116.4	116.2	115.2
70°	109.5	106.6	103.7	103.0	103.0	102.1	101.8
72.5°	94.3	92.3	90.4	89.8	89.1	89.5	88.5
75°	72.9	71.2	70.5	69.8	69.6	69.6	68.9
77.5°	53.8	52.6	51.5	51.5	50.6	50.3	50.2
80°	40.9	40.4	39.5	39.5	39.0	39.2	38.7
82.5°	30.7	30.1	29.9	29.5	28.8	28.9	28.4
85°	16.5	15.8	15.6	14.8	14.3	14.8	14.3
87.5°	13.6	13.8	13.9	13.7	13.6	13.7	13.3
90°	39.6	41.6	43.0	43.6	44.3	45.0	45.6
92.5°	38.4	40.4	41.5	41.6	41.8	41.9	42.0
95°	39.6	41.6	42.8	43.1	43.5	43.8	44.1
97.5°	40.8	41.0	41.3	41.6	42.0	42.3	42.6
100°	49.8	44.0	41.3	41.6	42.0	42.3	42.6
102.5°	136.6	74.6	43.6	43.6	43.7	43.8	43.8
105°	484.3	487.4	482.7	470.6	458.4	446.3	434.0
107.5°	596.9	598.3	599.8	601.1	602.3	603.6	604.9
110°	673.7	674.3	675.2	676.2	677.2	678.2	679.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	747.9	747.8	748.4	749.7	750.9	752.2	753.6
115°	860.9	861.6	862.0	862.0	862.0	862.0	862.0
117.5°	973.0	972.9	972.8	972.6	972.5	972.4	972.2
120°	1043.7	1044.4	1044.4	1043.7	1043.0	1042.4	1041.7
122.5°	1112.4	1112.8	1112.6	1112.0	1111.3	1110.5	1109.9
125°	1209.2	1210.2	1210.9	1211.2	1211.5	1211.9	1212.2
127.5°	1303.6	1303.4	1303.1	1302.9	1302.6	1302.3	1302.1
130°	1362.5	1362.8	1363.0	1363.0	1363.0	1363.0	1363.0
132.5°	1419.8	1420.1	1420.2	1419.9	1419.6	1419.4	1419.1
135°	1499.0	1499.8	1500.5	1501.1	1501.8	1502.5	1503.1
137.5°	1574.8	1575.6	1575.8	1575.6	1575.4	1575.2	1575.0
140°	1621.9	1623.0	1623.6	1624.0	1624.3	1624.6	1625.0
142.5°	1665.0	1665.7	1666.1	1666.2	1666.3	1666.3	1666.4
145°	1726.5	1726.8	1727.4	1728.0	1728.7	1729.4	1730.0
147.5°	1780.8	1781.1	1781.4	1781.7	1782.0	1782.4	1782.7
150°	1815.3	1815.3	1815.5	1815.8	1816.1	1816.5	1816.8
152.5°	1846.1	1846.7	1846.8	1846.6	1846.4	1846.2	1846.0
155°	1887.9	1889.3	1889.5	1888.4	1887.4	1886.4	1885.4
157.5°	1923.6	1925.3	1925.3	1923.6	1921.8	1920.1	1918.2
160°	1946.3	1948.3	1948.3	1946.3	1944.3	1942.3	1940.2
162.5°	1964.6	1966.6	1966.4	1964.2	1961.9	1959.5	1957.2
165°	1990.9	1993.7	1993.5	1990.4	1987.4	1984.4	1981.4
167.5°	2010.0	2013.1	2012.9	2009.4	2006.1	2002.7	1999.3
170°	2021.4	2024.2	2023.8	2020.4	2017.0	2013.7	2010.2
172.5°	2028.7	2031.4	2030.9	2027.3	2023.7	2020.0	2016.3
175°	2037.7	2040.7	2040.2	2036.1	2032.1	2028.0	2024.0
177.5°	2040.2	2042.4	2041.8	2038.6	2035.3	2032.1	2028.8
180°	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1	2036.1

(END OF REPORT)