

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: P332727-840

Luminaire Tested: **S124DIW-S350D1050U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332727-840
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-S350D1050U840-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1050 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5827.4 lumens
Efficiency: N/A
Efficacy: 153.4 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

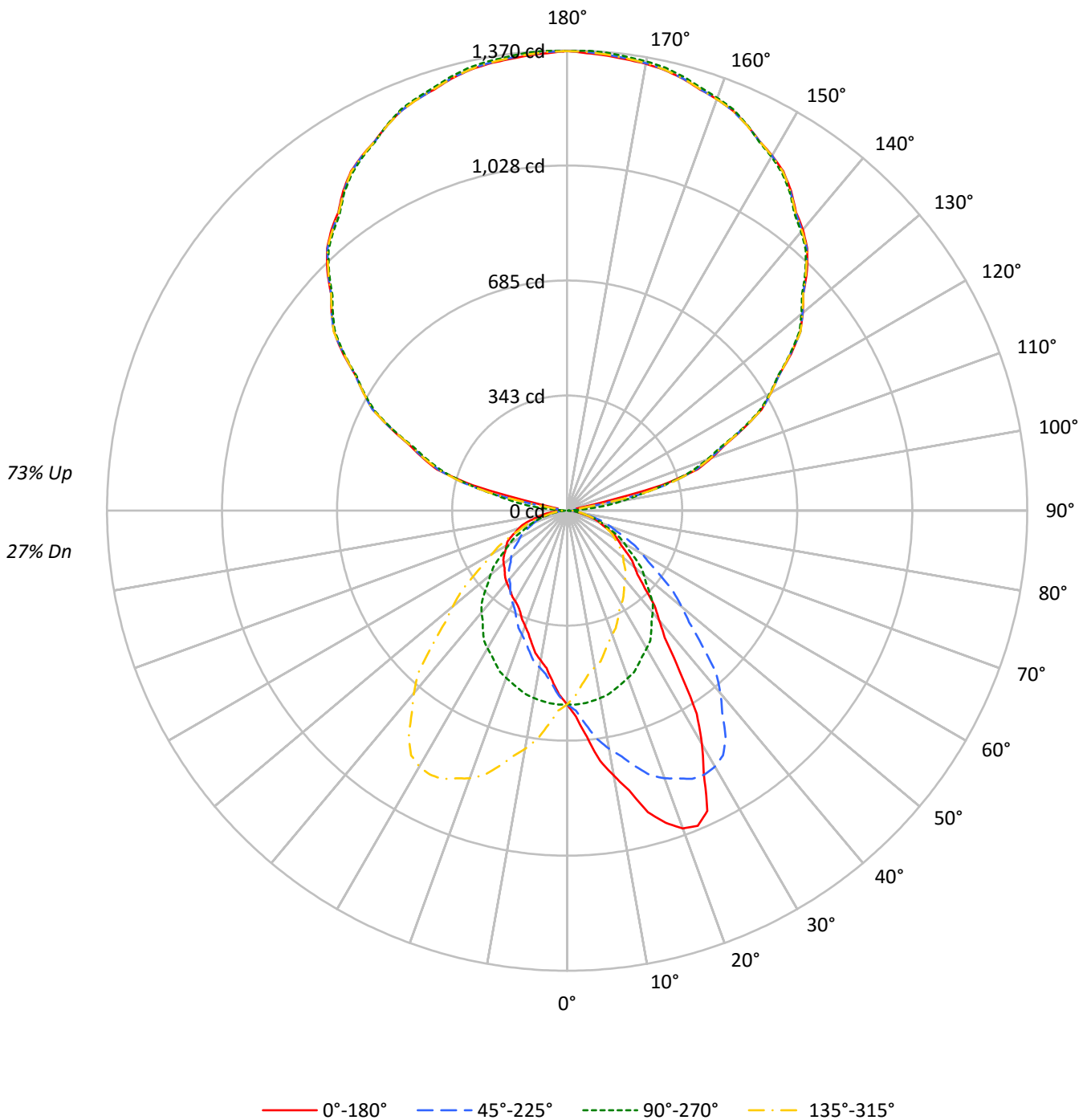
Input Watts (W): 38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27
1	93	89	85	82	83	79	76	74	62	60	58	46	45	44	31	31	30	23
2	85	78	72	67	75	70	65	60	54	51	48	41	38	37	28	27	25	20
3	77	68	61	56	69	61	55	51	48	44	41	36	33	31	25	23	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	20	19	15
5	65	54	46	40	58	48	42	37	38	33	30	29	26	23	20	18	16	13
6	60	48	40	35	53	43	37	32	34	29	26	26	23	20	18	16	14	11
7	55	43	36	30	49	39	32	28	31	26	23	24	20	18	17	14	13	10
8	51	39	32	27	45	35	29	24	28	23	20	21	18	16	15	13	12	9
9	47	36	28	24	42	32	26	22	26	21	18	20	16	14	14	12	10	8
10	44	32	26	21	39	29	23	19	24	19	16	18	15	13	13	11	9	7

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	1.0
10°-20°	173.3	3.0
20°-30°	274.7	4.7
30°-40°	305.7	5.2
40°-50°	278.3	4.8
50°-60°	227.4	3.9
60°-70°	162.4	2.8
70°-80°	89.4	1.5
80°-90°	28.4	0.5
90°-100°	46.8	0.8
100°-110°	298.3	5.1
110°-120°	570.7	9.8
120°-130°	724.4	12.4
130°-140°	775.1	13.3
140°-150°	724.8	12.4
150°-160°	584.5	10.0
160°-170°	377.0	6.5
170°-180°	129.9	2.2
0°-30°	504.2	8.7
0°-40°	809.9	13.9
0°-60°	1315.6	22.6
0°-90°	1595.8	27.4
90°-120°	915.8	15.7
90°-150°	3140.1	53.9
90°-180°	4232.0	72.6
0°-180°	5827.4	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	18
90°	31	3	31	3	31	14
95°	30	56	30	56	30	24
105°	292	308	292	308	292	254
115°	579	575	579	575	579	573
125°	814	808	814	808	814	725
135°	1010	1003	1010	1003	1010	777
145°	1162	1156	1162	1156	1162	726
155°	1267	1268	1267	1268	1267	584
165°	1331	1337	1331	1337	1331	376
175°	1360	1368	1360	1368	1360	129
180°	1368	1368	1368	1368	1368	



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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°	10.3	10.8	10.7	10.8	11.1	11.1	11.0	10.6	11.1	11.0	11.4
90°	30.7	30.2	29.8	29.3	28.9	28.0	26.6	25.2	23.8	22.5	20.7
92.5°	28.3	28.2	28.1	28.0	27.9	27.2	25.8	24.4	23.0	21.7	19.9
95°	29.7	29.5	29.2	29.0	28.8	28.0	26.6	25.2	23.8	22.5	22.3
97.5°	28.7	28.4	28.2	28.0	27.8	27.6	27.5	27.3	27.2	27.0	52.4
100°	28.7	28.4	28.2	28.0	27.8	29.6	33.4	37.3	41.2	45.0	76.4
102.5°	29.5	29.4	29.4	29.3	29.3	50.1	91.8	133.5	175.2	216.9	221.0
105°	291.6	299.8	308.0	316.2	324.4	327.4	325.4	323.4	321.2	319.2	318.1
107.5°	406.4	405.6	404.7	403.8	402.9	402.0	401.0	400.0	399.0	398.0	396.5
110°	456.4	455.7	454.9	454.3	453.6	453.0	452.6	452.1	451.7	451.2	449.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	506.2	505.4	504.5	503.7	502.8	502.4	502.5	502.6	502.7	502.8	502.1
115°	579.2	579.2	579.2	579.2	579.2	578.9	578.5	577.9	577.5	577.0	577.3
117.5°	653.2	653.3	653.4	653.5	653.6	653.7	653.8	653.8	653.9	654.0	653.5
120°	699.8	700.3	700.7	701.3	701.7	701.7	701.3	700.7	700.3	699.8	700.0
122.5°	745.7	746.2	746.6	747.1	747.5	747.6	747.3	747.1	746.8	746.5	746.2
125°	814.5	814.3	814.0	813.7	813.5	813.0	812.4	811.7	811.0	810.3	810.8
127.5°	874.8	874.9	875.1	875.4	875.6	875.7	875.9	876.0	876.2	876.3	875.1
130°	915.7	915.7	915.7	915.7	915.7	915.6	915.4	915.1	914.9	914.7	914.0
132.5°	953.4	953.6	953.7	953.9	954.1	954.1	953.9	953.6	953.4	953.2	952.3
135°	1009.9	1009.5	1009.0	1008.6	1008.0	1007.6	1007.1	1006.7	1006.2	1005.8	1004.9
137.5°	1058.1	1058.3	1058.4	1058.5	1058.7	1058.5	1058.0	1057.5	1057.0	1056.5	1055.5
140°	1091.8	1091.5	1091.3	1091.1	1090.9	1090.4	1089.6	1089.0	1088.3	1087.6	1087.2
142.5°	1119.5	1119.5	1119.4	1119.4	1119.3	1119.1	1118.6	1118.1	1117.6	1117.1	1116.8
145°	1162.4	1161.8	1161.4	1160.9	1160.5	1160.1	1159.9	1159.7	1159.5	1159.2	1159.2
147.5°	1197.7	1197.5	1197.3	1197.1	1196.8	1196.6	1196.4	1196.3	1196.1	1195.9	1196.1
150°	1220.6	1220.4	1220.2	1219.9	1219.7	1219.6	1219.6	1219.6	1219.6	1219.6	1219.8
152.5°	1240.3	1240.4	1240.5	1240.7	1240.8	1240.7	1240.3	1240.0	1239.6	1239.3	1239.7
155°	1266.7	1267.4	1268.1	1268.7	1269.4	1269.3	1268.4	1267.5	1266.6	1265.7	1266.4
157.5°	1288.8	1290.0	1291.1	1292.3	1293.5	1293.5	1292.3	1291.1	1290.0	1288.8	1289.6
160°	1303.5	1304.8	1306.3	1307.6	1309.0	1309.0	1307.6	1306.3	1304.8	1303.5	1303.7
162.5°	1314.9	1316.6	1318.1	1319.6	1321.2	1321.2	1319.9	1318.5	1317.2	1315.8	1316.1
165°	1331.1	1333.2	1335.2	1337.3	1339.3	1339.3	1337.7	1335.8	1334.0	1332.2	1332.2
167.5°	1343.2	1345.5	1347.8	1350.1	1352.3	1352.4	1350.5	1348.5	1346.5	1344.4	1344.6
170°	1350.6	1352.8	1355.1	1357.4	1359.7	1359.9	1358.1	1356.2	1354.4	1352.6	1352.4
172.5°	1354.6	1357.2	1359.6	1362.0	1364.5	1364.8	1363.0	1361.2	1359.4	1357.6	1357.4
175°	1359.8	1362.5	1365.2	1368.0	1370.7	1371.1	1369.0	1367.0	1364.9	1362.9	1362.6
177.5°	1363.1	1365.2	1367.5	1369.6	1371.8	1372.2	1370.7	1369.3	1367.8	1366.3	1365.9
180°	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0



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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°	11.0	10.9	10.3	9.1	8.1	7.0	6.3	5.6	6.3	7.0	7.7
90°	18.9	17.1	15.2	13.0	10.6	8.1	5.6	3.0	5.6	8.1	10.6
92.5°	18.1	16.3	14.4	13.4	13.3	13.1	13.0	12.9	13.0	13.1	13.3
95°	22.0	21.8	21.6	25.3	33.1	40.8	48.6	56.2	48.6	40.8	33.1
97.5°	77.8	103.1	128.6	138.8	134.0	129.2	124.3	119.5	124.3	129.2	134.0
100°	107.8	139.2	170.6	184.2	180.1	176.0	171.9	167.8	171.9	176.0	180.1
102.5°	225.1	229.2	233.3	233.8	230.9	227.8	224.8	221.9	224.8	227.8	230.9
105°	317.0	315.8	314.7	313.5	312.0	310.7	309.3	308.0	309.3	310.7	312.0
107.5°	395.0	393.3	391.8	390.7	390.0	389.3	388.7	388.0	388.7	389.3	390.0
110°	448.5	447.2	445.8	444.7	444.0	443.3	442.7	442.0	442.7	443.3	444.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	501.5	500.9	500.3	499.3	498.1	496.9	495.6	494.4	495.6	496.9	498.1
115°	577.5	577.7	577.9	577.7	577.0	576.4	575.7	575.0	575.7	576.4	577.0
117.5°	653.0	652.5	652.0	651.3	650.4	649.4	648.5	647.6	648.5	649.4	650.4
120°	700.3	700.5	700.7	700.4	699.5	698.6	697.7	696.8	697.7	698.6	699.5
122.5°	745.9	745.6	745.3	744.8	744.3	743.7	743.2	742.7	743.2	743.7	744.3
125°	811.2	811.7	812.1	811.9	811.0	810.1	809.2	808.3	809.2	810.1	811.0
127.5°	874.1	873.1	872.0	871.4	871.2	871.0	870.7	870.5	870.7	871.0	871.2
130°	913.3	912.7	912.0	911.5	911.3	911.1	910.9	910.6	910.9	911.1	911.3
132.5°	951.5	950.6	949.8	949.1	948.7	948.3	947.9	947.5	947.9	948.3	948.7
135°	1004.0	1003.1	1002.2	1001.8	1002.0	1002.3	1002.5	1002.7	1002.5	1002.3	1002.0
137.5°	1054.5	1053.5	1052.5	1052.0	1051.9	1051.8	1051.7	1051.6	1051.7	1051.8	1051.9
140°	1086.7	1086.3	1085.8	1085.4	1084.9	1084.5	1084.0	1083.6	1084.0	1084.5	1084.9
142.5°	1116.5	1116.3	1116.0	1115.5	1114.7	1113.8	1113.0	1112.2	1113.0	1113.8	1114.7
145°	1159.2	1159.2	1159.2	1158.9	1158.2	1157.5	1156.9	1156.2	1156.9	1157.5	1158.2
147.5°	1196.4	1196.6	1196.8	1196.3	1195.0	1193.8	1192.4	1191.1	1192.4	1193.8	1195.0
150°	1220.1	1220.3	1220.5	1220.2	1219.3	1218.4	1217.5	1216.6	1217.5	1218.4	1219.3
152.5°	1240.1	1240.5	1240.9	1240.7	1240.0	1239.3	1238.6	1237.8	1238.6	1239.3	1240.0
155°	1267.1	1267.7	1268.4	1268.6	1268.4	1268.2	1268.0	1267.7	1268.0	1268.2	1268.4
157.5°	1290.3	1291.1	1291.9	1292.3	1292.4	1292.6	1292.7	1292.9	1292.7	1292.6	1292.4
160°	1303.9	1304.2	1304.4	1304.8	1305.6	1306.3	1307.0	1307.6	1307.0	1306.3	1305.6
162.5°	1316.3	1316.5	1316.7	1317.3	1318.1	1319.0	1319.9	1320.7	1319.9	1319.0	1318.1
165°	1332.2	1332.2	1332.2	1332.7	1333.8	1335.0	1336.2	1337.3	1336.2	1335.0	1333.8
167.5°	1344.7	1344.8	1345.0	1345.6	1346.9	1348.1	1349.2	1350.4	1349.2	1348.1	1346.9
170°	1352.2	1351.9	1351.7	1352.3	1353.6	1355.0	1356.3	1357.8	1356.3	1355.0	1353.6
172.5°	1357.1	1356.9	1356.7	1357.2	1358.6	1359.9	1361.3	1362.6	1361.3	1359.9	1358.6
175°	1362.4	1362.2	1362.0	1362.5	1363.9	1365.2	1366.7	1368.0	1366.7	1365.2	1363.9
177.5°	1365.6	1365.2	1364.9	1365.3	1366.7	1367.9	1369.2	1370.4	1369.2	1367.9	1366.7
180°	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0



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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°	8.7	9.2	10.3	11.0	12.0	13.3	13.9	16.4	17.4	18.6	20.5
90°	13.0	15.2	17.1	18.9	20.7	22.5	23.8	25.2	26.6	28.0	28.9
92.5°	13.4	14.4	16.3	18.1	19.9	21.7	23.0	24.4	25.8	27.2	27.9
95°	25.3	21.6	21.8	22.0	22.3	22.5	23.8	25.2	26.6	28.0	28.8
97.5°	138.8	128.6	103.1	77.8	52.4	27.0	27.2	27.3	27.5	27.6	27.8
100°	184.2	170.6	139.2	107.8	76.4	45.0	41.2	37.3	33.4	29.6	27.8
102.5°	233.8	233.3	229.2	225.1	221.0	216.9	175.2	133.5	91.8	50.1	29.3
105°	313.5	314.7	315.8	317.0	318.1	319.2	321.2	323.4	325.4	327.4	324.4
107.5°	390.7	391.8	393.3	395.0	396.5	398.0	399.0	400.0	401.0	402.0	402.9
110°	444.7	445.8	447.2	448.5	449.9	451.2	451.7	452.1	452.6	453.0	453.6



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	499.3	500.3	500.9	501.5	502.1	502.8	502.7	502.6	502.5	502.4	502.8
115°	577.7	577.9	577.7	577.5	577.3	577.0	577.5	577.9	578.5	578.9	579.2
117.5°	651.3	652.0	652.5	653.0	653.5	654.0	653.9	653.8	653.8	653.7	653.6
120°	700.4	700.7	700.5	700.3	700.0	699.8	700.3	700.7	701.3	701.7	701.7
122.5°	744.8	745.3	745.6	745.9	746.2	746.5	746.8	747.1	747.3	747.6	747.5
125°	811.9	812.1	811.7	811.2	810.8	810.3	811.0	811.7	812.4	813.0	813.5
127.5°	871.4	872.0	873.1	874.1	875.1	876.3	876.2	876.0	875.9	875.7	875.6
130°	911.5	912.0	912.7	913.3	914.0	914.7	914.9	915.1	915.4	915.6	915.7
132.5°	949.1	949.8	950.6	951.5	952.3	953.2	953.4	953.6	953.9	954.1	954.1
135°	1001.8	1002.2	1003.1	1004.0	1004.9	1005.8	1006.2	1006.7	1007.1	1007.6	1008.0
137.5°	1052.0	1052.5	1053.5	1054.5	1055.5	1056.5	1057.0	1057.5	1058.0	1058.5	1058.7
140°	1085.4	1085.8	1086.3	1086.7	1087.2	1087.6	1088.3	1089.0	1089.6	1090.4	1090.9
142.5°	1115.5	1116.0	1116.3	1116.5	1116.8	1117.1	1117.6	1118.1	1118.6	1119.1	1119.3
145°	1158.9	1159.2	1159.2	1159.2	1159.2	1159.2	1159.5	1159.7	1159.9	1160.1	1160.5
147.5°	1196.3	1196.8	1196.6	1196.4	1196.1	1195.9	1196.1	1196.3	1196.4	1196.6	1196.8
150°	1220.2	1220.5	1220.3	1220.1	1219.8	1219.6	1219.6	1219.6	1219.6	1219.6	1219.7
152.5°	1240.7	1240.9	1240.5	1240.1	1239.7	1239.3	1239.6	1240.0	1240.3	1240.7	1240.8
155°	1268.6	1268.4	1267.7	1267.1	1266.4	1265.7	1266.6	1267.5	1268.4	1269.3	1269.4
157.5°	1292.3	1291.9	1291.1	1290.3	1289.6	1288.8	1290.0	1291.1	1292.3	1293.5	1293.5
160°	1304.8	1304.4	1304.2	1303.9	1303.7	1303.5	1304.8	1306.3	1307.6	1309.0	1309.0
162.5°	1317.3	1316.7	1316.5	1316.3	1316.1	1315.8	1317.2	1318.5	1319.9	1321.2	1321.2
165°	1332.7	1332.2	1332.2	1332.2	1332.2	1332.2	1334.0	1335.8	1337.7	1339.5	1339.3
167.5°	1345.6	1345.0	1344.8	1344.7	1344.6	1344.4	1346.5	1348.5	1350.5	1352.4	1352.3
170°	1352.3	1351.7	1351.9	1352.2	1352.4	1352.6	1354.4	1356.2	1358.1	1359.9	1359.7
172.5°	1357.2	1356.7	1356.9	1357.1	1357.4	1357.6	1359.4	1361.2	1363.0	1364.8	1364.5
175°	1362.5	1362.0	1362.2	1362.4	1362.6	1362.9	1364.9	1367.0	1369.0	1371.1	1370.7
177.5°	1365.3	1364.9	1365.2	1365.6	1365.9	1366.3	1367.8	1369.3	1370.7	1372.2	1371.8
180°	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0



TEST NUMBER: P332727-840

CATALOG NUMBER: S124DIW-S350D1050U840-4F0-1E-UDD-A

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°	21.2	21.4	22.1	22.6	22.1	21.4	21.2	20.5	18.6	17.4	16.4
90°	29.3	29.8	30.2	30.7	30.2	29.8	29.3	28.9	28.0	26.6	25.2
92.5°	28.0	28.1	28.2	28.3	28.2	28.1	28.0	27.9	27.2	25.8	24.4
95°	29.0	29.2	29.5	29.7	29.5	29.2	29.0	28.8	28.0	26.6	25.2
97.5°	28.0	28.2	28.4	28.7	28.4	28.2	28.0	27.8	27.6	27.5	27.3
100°	28.0	28.2	28.4	28.7	28.4	28.2	28.0	27.8	29.6	33.4	37.3
102.5°	29.3	29.4	29.4	29.5	29.4	29.4	29.3	29.3	50.1	91.8	133.5
105°	316.2	308.0	299.8	291.6	299.8	308.0	316.2	324.4	327.4	325.4	323.4
107.5°	403.8	404.7	405.6	406.4	405.6	404.7	403.8	402.9	402.0	401.0	400.0
110°	454.3	454.9	455.7	456.4	455.7	454.9	454.3	453.6	453.0	452.6	452.1



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	503.7	504.5	505.4	506.2	505.4	504.5	503.7	502.8	502.4	502.5	502.6
115°	579.2	579.2	579.2	579.2	579.2	579.2	579.2	579.2	578.9	578.5	577.9
117.5°	653.5	653.4	653.3	653.2	653.3	653.4	653.5	653.6	653.7	653.8	653.8
120°	701.3	700.7	700.3	699.8	700.3	700.7	701.3	701.7	701.7	701.3	700.7
122.5°	747.1	746.6	746.2	745.7	746.2	746.6	747.1	747.5	747.6	747.3	747.1
125°	813.7	814.0	814.3	814.5	814.3	814.0	813.7	813.5	813.0	812.4	811.7
127.5°	875.4	875.1	874.9	874.8	874.9	875.1	875.4	875.6	875.7	875.9	876.0
130°	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.6	915.4	915.1
132.5°	953.9	953.7	953.6	953.4	953.6	953.7	953.9	954.1	954.1	953.9	953.6
135°	1008.6	1009.0	1009.5	1009.9	1009.5	1009.0	1008.6	1008.0	1007.6	1007.1	1006.7
137.5°	1058.5	1058.4	1058.3	1058.1	1058.3	1058.4	1058.5	1058.7	1058.5	1058.0	1057.5
140°	1091.1	1091.3	1091.5	1091.8	1091.5	1091.3	1091.1	1090.9	1090.4	1089.6	1089.0
142.5°	1119.4	1119.4	1119.5	1119.5	1119.5	1119.4	1119.4	1119.3	1119.1	1118.6	1118.1
145°	1160.9	1161.4	1161.8	1162.4	1161.8	1161.4	1160.9	1160.5	1160.1	1159.9	1159.7
147.5°	1197.1	1197.3	1197.5	1197.7	1197.5	1197.3	1197.1	1196.8	1196.6	1196.4	1196.3
150°	1219.9	1220.2	1220.4	1220.6	1220.4	1220.2	1219.9	1219.7	1219.6	1219.6	1219.6
152.5°	1240.7	1240.5	1240.4	1240.3	1240.4	1240.5	1240.7	1240.8	1240.7	1240.3	1240.0
155°	1268.7	1268.1	1267.4	1266.7	1267.4	1268.1	1268.7	1269.4	1269.3	1268.4	1267.5
157.5°	1292.3	1291.1	1290.0	1288.8	1290.0	1291.1	1292.3	1293.5	1293.5	1292.3	1291.1
160°	1307.6	1306.3	1304.8	1303.5	1304.8	1306.3	1307.6	1309.0	1309.0	1307.6	1306.3
162.5°	1319.6	1318.1	1316.6	1314.9	1316.6	1318.1	1319.6	1321.2	1321.2	1319.9	1318.5
165°	1337.3	1335.2	1333.2	1331.1	1333.2	1335.2	1337.3	1339.3	1339.5	1337.7	1335.8
167.5°	1350.1	1347.8	1345.5	1343.2	1345.5	1347.8	1350.1	1352.3	1352.4	1350.5	1348.5
170°	1357.4	1355.1	1352.8	1350.6	1352.8	1355.1	1357.4	1359.7	1359.9	1358.1	1356.2
172.5°	1362.0	1359.6	1357.2	1354.6	1357.2	1359.6	1362.0	1364.5	1364.8	1363.0	1361.2
175°	1368.0	1365.2	1362.5	1359.8	1362.5	1365.2	1368.0	1370.7	1371.1	1369.0	1367.0
177.5°	1369.6	1367.5	1365.2	1363.1	1365.2	1367.5	1369.6	1371.8	1372.2	1370.7	1369.3
180°	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0



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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°	13.9	13.3	12.0	11.0	10.3	9.2	8.7	7.7	7.0	6.3	5.6
90°	23.8	22.5	20.7	18.9	17.1	15.2	13.0	10.6	8.1	5.6	3.0
92.5°	23.0	21.7	19.9	18.1	16.3	14.4	13.4	13.3	13.1	13.0	12.9
95°	23.8	22.5	22.3	22.0	21.8	21.6	25.3	33.1	40.8	48.6	56.2
97.5°	27.2	27.0	52.4	77.8	103.1	128.6	138.8	134.0	129.2	124.3	119.5
100°	41.2	45.0	76.4	107.8	139.2	170.6	184.2	180.1	176.0	171.9	167.8
102.5°	175.2	216.9	221.0	225.1	229.2	233.3	233.8	230.9	227.8	224.8	221.9
105°	321.2	319.2	318.1	317.0	315.8	314.7	313.5	312.0	310.7	309.3	308.0
107.5°	399.0	398.0	396.5	395.0	393.3	391.8	390.7	390.0	389.3	388.7	388.0
110°	451.7	451.2	449.9	448.5	447.2	445.8	444.7	444.0	443.3	442.7	442.0



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CATALOG NUMBER: S124DIW-S350D1050U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	502.7	502.8	502.1	501.5	500.9	500.3	499.3	498.1	496.9	495.6	494.4
115°	577.5	577.0	577.3	577.5	577.7	577.9	577.7	577.0	576.4	575.7	575.0
117.5°	653.9	654.0	653.5	653.0	652.5	652.0	651.3	650.4	649.4	648.5	647.6
120°	700.3	699.8	700.0	700.3	700.5	700.7	700.4	699.5	698.6	697.7	696.8
122.5°	746.8	746.5	746.2	745.9	745.6	745.3	744.8	744.3	743.7	743.2	742.7
125°	811.0	810.3	810.8	811.2	811.7	812.1	811.9	811.0	810.1	809.2	808.3
127.5°	876.2	876.3	875.1	874.1	873.1	872.0	871.4	871.2	871.0	870.7	870.5
130°	914.9	914.7	914.0	913.3	912.7	912.0	911.5	911.3	911.1	910.9	910.6
132.5°	953.4	953.2	952.3	951.5	950.6	949.8	949.1	948.7	948.3	947.9	947.5
135°	1006.2	1005.8	1004.9	1004.0	1003.1	1002.2	1001.8	1002.0	1002.3	1002.5	1002.7
137.5°	1057.0	1056.5	1055.5	1054.5	1053.5	1052.5	1052.0	1051.9	1051.8	1051.7	1051.6
140°	1088.3	1087.6	1087.2	1086.7	1086.3	1085.8	1085.4	1084.9	1084.5	1084.0	1083.6
142.5°	1117.6	1117.1	1116.8	1116.5	1116.3	1116.0	1115.5	1114.7	1113.8	1113.0	1112.2
145°	1159.5	1159.2	1159.2	1159.2	1159.2	1159.2	1158.9	1158.2	1157.5	1156.9	1156.2
147.5°	1196.1	1195.9	1196.1	1196.4	1196.6	1196.8	1196.3	1195.0	1193.8	1192.4	1191.1
150°	1219.6	1219.6	1219.8	1220.1	1220.3	1220.5	1220.2	1219.3	1218.4	1217.5	1216.6
152.5°	1239.6	1239.3	1239.7	1240.1	1240.5	1240.9	1240.7	1240.0	1239.3	1238.6	1237.8
155°	1266.6	1265.7	1266.4	1267.1	1267.7	1268.4	1268.6	1268.4	1268.2	1268.0	1267.7
157.5°	1290.0	1288.8	1289.6	1290.3	1291.1	1291.9	1292.3	1292.4	1292.6	1292.7	1292.9
160°	1304.8	1303.5	1303.7	1303.9	1304.2	1304.4	1304.8	1305.6	1306.3	1307.0	1307.6
162.5°	1317.2	1315.8	1316.1	1316.3	1316.5	1316.7	1317.3	1318.1	1319.0	1319.9	1320.7
165°	1334.0	1332.2	1332.2	1332.2	1332.2	1332.2	1332.7	1333.8	1335.0	1336.2	1337.3
167.5°	1346.5	1344.4	1344.6	1344.7	1344.8	1345.0	1345.6	1346.9	1348.1	1349.2	1350.4
170°	1354.4	1352.6	1352.4	1352.2	1351.9	1351.7	1352.3	1353.6	1355.0	1356.3	1357.8
172.5°	1359.4	1357.6	1357.4	1357.1	1356.9	1356.7	1357.2	1358.6	1359.9	1361.3	1362.6
175°	1364.9	1362.9	1362.6	1362.4	1362.2	1362.0	1362.5	1363.9	1365.2	1366.7	1368.0
177.5°	1367.8	1366.3	1365.9	1365.6	1365.2	1364.9	1365.3	1366.7	1367.9	1369.2	1370.4
180°	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0



TEST NUMBER: P332727-840

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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°	6.3	7.0	8.1	9.1	10.3	10.9	11.0	11.4	11.0	11.1	10.6
90°	5.6	8.1	10.6	13.0	15.2	17.1	18.9	20.7	22.5	23.8	25.2
92.5°	13.0	13.1	13.3	13.4	14.4	16.3	18.1	19.9	21.7	23.0	24.4
95°	48.6	40.8	33.1	25.3	21.6	21.8	22.0	22.3	22.5	23.8	25.2
97.5°	124.3	129.2	134.0	138.8	128.6	103.1	77.8	52.4	27.0	27.2	27.3
100°	171.9	176.0	180.1	184.2	170.6	139.2	107.8	76.4	45.0	41.2	37.3
102.5°	224.8	227.8	230.9	233.8	233.3	229.2	225.1	221.0	216.9	175.2	133.5
105°	309.3	310.7	312.0	313.5	314.7	315.8	317.0	318.1	319.2	321.2	323.4
107.5°	388.7	389.3	390.0	390.7	391.8	393.3	395.0	396.5	398.0	399.0	400.0
110°	442.7	443.3	444.0	444.7	445.8	447.2	448.5	449.9	451.2	451.7	452.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	495.6	496.9	498.1	499.3	500.3	500.9	501.5	502.1	502.8	502.7	502.6
115°	575.7	576.4	577.0	577.7	577.9	577.7	577.5	577.3	577.0	577.5	577.9
117.5°	648.5	649.4	650.4	651.3	652.0	652.5	653.0	653.5	654.0	653.9	653.8
120°	697.7	698.6	699.5	700.4	700.7	700.5	700.3	700.0	699.8	700.3	700.7
122.5°	743.2	743.7	744.3	744.8	745.3	745.6	745.9	746.2	746.5	746.8	747.1
125°	809.2	810.1	811.0	811.9	812.1	811.7	811.2	810.8	810.3	811.0	811.7
127.5°	870.7	871.0	871.2	871.4	872.0	873.1	874.1	875.1	876.3	876.2	876.0
130°	910.9	911.1	911.3	911.5	912.0	912.7	913.3	914.0	914.7	914.9	915.1
132.5°	947.9	948.3	948.7	949.1	949.8	950.6	951.5	952.3	953.2	953.4	953.6
135°	1002.5	1002.3	1002.0	1001.8	1002.2	1003.1	1004.0	1004.9	1005.8	1006.2	1006.7
137.5°	1051.7	1051.8	1051.9	1052.0	1052.5	1053.5	1054.5	1055.5	1056.5	1057.0	1057.5
140°	1084.0	1084.5	1084.9	1085.4	1085.8	1086.3	1086.7	1087.2	1087.6	1088.3	1089.0
142.5°	1113.0	1113.8	1114.7	1115.5	1116.0	1116.3	1116.5	1116.8	1117.1	1117.6	1118.1
145°	1156.9	1157.5	1158.2	1158.9	1159.2	1159.2	1159.2	1159.2	1159.2	1159.5	1159.7
147.5°	1192.4	1193.8	1195.0	1196.3	1196.8	1196.6	1196.4	1196.1	1195.9	1196.1	1196.3
150°	1217.5	1218.4	1219.3	1220.2	1220.5	1220.3	1220.1	1219.8	1219.6	1219.6	1219.6
152.5°	1238.6	1239.3	1240.0	1240.7	1240.9	1240.5	1240.1	1239.7	1239.3	1239.6	1240.0
155°	1268.0	1268.2	1268.4	1268.6	1268.4	1267.7	1267.1	1266.4	1265.7	1266.6	1267.5
157.5°	1292.7	1292.6	1292.4	1292.3	1291.9	1291.1	1290.3	1289.6	1288.8	1290.0	1291.1
160°	1307.0	1306.3	1305.6	1304.8	1304.4	1304.2	1303.9	1303.7	1303.5	1304.8	1306.3
162.5°	1319.9	1319.0	1318.1	1317.3	1316.7	1316.5	1316.3	1316.1	1315.8	1317.2	1318.5
165°	1336.2	1335.0	1333.8	1332.7	1332.2	1332.2	1332.2	1332.2	1332.2	1334.0	1335.8
167.5°	1349.2	1348.1	1346.9	1345.6	1345.0	1344.8	1344.7	1344.6	1344.4	1346.5	1348.5
170°	1356.3	1355.0	1353.6	1352.3	1351.7	1351.9	1352.2	1352.4	1352.6	1354.4	1356.2
172.5°	1361.3	1359.9	1358.6	1357.2	1356.7	1356.9	1357.1	1357.4	1357.6	1359.4	1361.2
175°	1366.7	1365.2	1363.9	1362.5	1362.0	1362.2	1362.4	1362.6	1362.9	1364.9	1367.0
177.5°	1369.2	1367.9	1366.7	1365.3	1364.9	1365.2	1365.6	1365.9	1366.3	1367.8	1369.3
180°	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0



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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°	11.0	11.1	11.1	10.8	10.7	10.8	10.3
90°	26.6	28.0	28.9	29.3	29.8	30.2	30.7
92.5°	25.8	27.2	27.9	28.0	28.1	28.2	28.3
95°	26.6	28.0	28.8	29.0	29.2	29.5	29.7
97.5°	27.5	27.6	27.8	28.0	28.2	28.4	28.7
100°	33.4	29.6	27.8	28.0	28.2	28.4	28.7
102.5°	91.8	50.1	29.3	29.3	29.4	29.4	29.5
105°	325.4	327.4	324.4	316.2	308.0	299.8	291.6
107.5°	401.0	402.0	402.9	403.8	404.7	405.6	406.4
110°	452.6	453.0	453.6	454.3	454.9	455.7	456.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	502.5	502.4	502.8	503.7	504.5	505.4	506.2
115°	578.5	578.9	579.2	579.2	579.2	579.2	579.2
117.5°	653.8	653.7	653.6	653.5	653.4	653.3	653.2
120°	701.3	701.7	701.7	701.3	700.7	700.3	699.8
122.5°	747.3	747.6	747.5	747.1	746.6	746.2	745.7
125°	812.4	813.0	813.5	813.7	814.0	814.3	814.5
127.5°	875.9	875.7	875.6	875.4	875.1	874.9	874.8
130°	915.4	915.6	915.7	915.7	915.7	915.7	915.7
132.5°	953.9	954.1	954.1	953.9	953.7	953.6	953.4
135°	1007.1	1007.6	1008.0	1008.6	1009.0	1009.5	1009.9
137.5°	1058.0	1058.5	1058.7	1058.5	1058.4	1058.3	1058.1
140°	1089.6	1090.4	1090.9	1091.1	1091.3	1091.5	1091.8
142.5°	1118.6	1119.1	1119.3	1119.4	1119.4	1119.5	1119.5
145°	1159.9	1160.1	1160.5	1160.9	1161.4	1161.8	1162.4
147.5°	1196.4	1196.6	1196.8	1197.1	1197.3	1197.5	1197.7
150°	1219.6	1219.6	1219.7	1219.9	1220.2	1220.4	1220.6
152.5°	1240.3	1240.7	1240.8	1240.7	1240.5	1240.4	1240.3
155°	1268.4	1269.3	1269.4	1268.7	1268.1	1267.4	1266.7
157.5°	1292.3	1293.5	1293.5	1292.3	1291.1	1290.0	1288.8
160°	1307.6	1309.0	1309.0	1307.6	1306.3	1304.8	1303.5
162.5°	1319.9	1321.2	1321.2	1319.6	1318.1	1316.6	1314.9
165°	1337.7	1339.5	1339.3	1337.3	1335.2	1333.2	1331.1
167.5°	1350.5	1352.4	1352.3	1350.1	1347.8	1345.5	1343.2
170°	1358.1	1359.9	1359.7	1357.4	1355.1	1352.8	1350.6
172.5°	1363.0	1364.8	1364.5	1362.0	1359.6	1357.2	1354.6
175°	1369.0	1371.1	1370.7	1368.0	1365.2	1362.5	1359.8
177.5°	1370.7	1372.2	1371.8	1369.6	1367.5	1365.2	1363.1
180°	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0

(END OF REPORT)