

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: P333024-840

Luminaire Tested: **S124RDIW-S350D1050U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333024-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIW-S350D1050U840-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1050 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5173.4 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Indirect

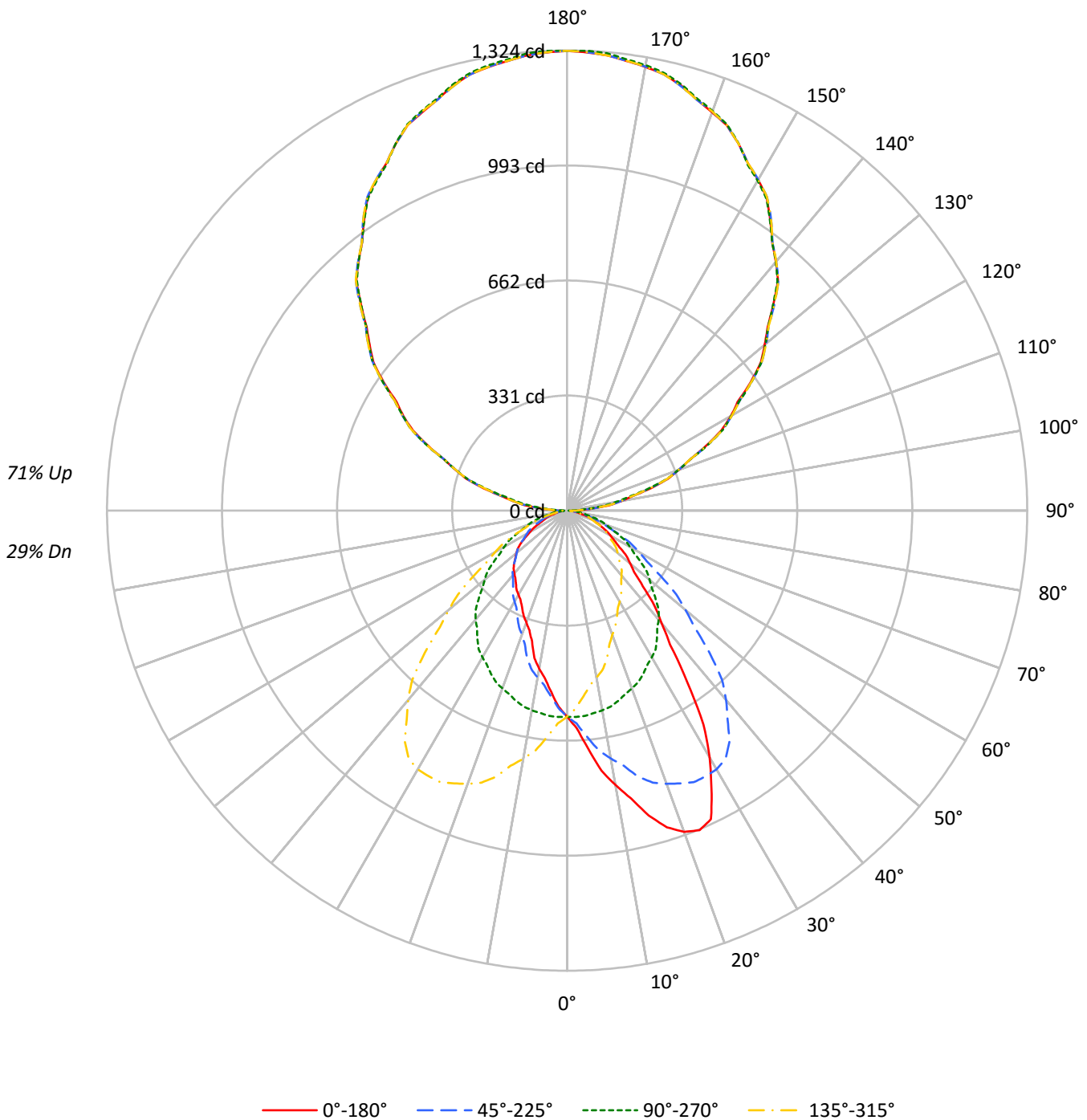
Input Watts (W): 38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333024-840

CATALOG NUMBER: S124RDIW-S350D1050U840-4F0-1E-UDD-A1

Luminous Intensity Polar Plot





TEST NUMBER: P333024-840

CATALOG NUMBER: S124RDIW-S350D1050U840-4F0-1E-UDD-A1

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	29				
1	93	89	86	82	84	80	77	74	63	61	59	47	46	45	33	32	32	25				
2	85	78	72	68	76	70	65	61	56	52	49	42	40	38	29	28	27	21				
3	78	69	62	56	70	62	56	51	49	45	42	37	35	32	26	25	23	18				
4	71	61	54	48	64	55	49	44	44	39	36	33	30	28	24	22	20	16				
5	65	54	47	41	58	49	42	37	39	34	31	30	27	24	21	19	18	14				
6	60	49	41	35	54	44	37	33	35	30	27	27	24	21	19	17	16	12				
7	56	44	36	31	50	40	33	28	32	27	24	25	21	19	18	16	14	11				
8	51	40	32	27	46	36	30	25	29	24	21	22	19	17	16	14	12	10				
9	48	36	29	24	43	33	27	22	27	22	19	21	17	15	15	13	11	9				
10	45	33	26	22	40	30	24	20	24	20	17	19	16	13	14	12	10	8				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4789	4789	4789	4789
5°	5555	4803	4246	4803
10°	6571	4782	3789	4782
15°	7590	4738	3256	4738
20°	8451	4677	2944	4677
25°	8725	4618	2734	4618
30°	7637	4545	2606	4545
35°	5945	4438	2530	4438
40°	4458	4314	2488	4314
45°	3520	4117	2466	4117
50°	2972	3890	2396	3890
55°	2590	3640	2267	3640
60°	2330	3379	2007	3379
65°	2055	3100	1727	3100
70°	1851	2811	1555	2811
75°	1550	2489	1326	2489
80°	1311	2120	1246	2120
85°	1102	1667	1102	1667



TEST NUMBER: P333024-840

CATALOG NUMBER: S124RDIW-S350D1050U840-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	1.1
10°-20°	173.4	3.4
20°-30°	271.2	5.2
30°-40°	301.5	5.8
40°-50°	267.5	5.2
50°-60°	208.4	4.0
60°-70°	136.5	2.6
70°-80°	67.1	1.3
80°-90°	20.5	0.4
90°-100°	87.2	1.7
100°-110°	258.4	5.0
110°-120°	438.7	8.5
120°-130°	578.4	11.2
130°-140°	649.6	12.6
140°-150°	638.4	12.3
150°-160°	536.9	10.4
160°-170°	357.2	6.9
170°-180°	125.1	2.4
0°-30°	502.0	9.7
0°-40°	803.5	15.5
0°-60°	1279.4	24.7
0°-90°	1503.4	29.1
90°-120°	784.3	15.2
90°-150°	2650.7	51.2
90°-180°	3670.0	70.9
0°-180°	5173.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	593	593	593	593	593	
5°	686	593	524	593	686	69
15°	908	567	390	567	908	258
25°	980	518	307	518	980	435
35°	603	450	257	450	603	378
45°	308	361	216	361	308	244
55°	184	259	161	259	184	167
65°	108	162	90	162	108	108
75°	50	80	42	80	50	55
85°	12	18	12	18	12	14
90°	31	3	31	3	31	16
95°	81	61	81	61	81	84
105°	250	238	250	238	250	263
115°	442	446	442	446	442	437
125°	644	650	644	650	644	575
135°	839	838	839	838	839	648
145°	1019	1018	1019	1018	1019	638
155°	1165	1166	1165	1166	1165	536
165°	1266	1270	1266	1270	1266	357
175°	1315	1321	1315	1321	1315	125
180°	1323	1323	1323	1323	1323	



TEST NUMBER: P333024-840

CATALOG NUMBER: S124RDIW-S350D1050U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2
2.5°	625.7	627.4	625.7	625.5	623.6	623.0	622.3	619.8	615.2	612.5	613.1
5°	685.5	691.5	688.1	687.6	682.4	677.1	673.8	666.1	657.9	652.5	647.9
7.5°	754.6	758.0	755.9	752.6	744.1	739.2	731.4	721.4	706.8	695.7	685.5
10°	801.6	804.5	803.5	797.3	791.1	778.4	771.2	757.2	738.7	724.2	710.5
12.5°	847.9	850.9	842.5	842.8	831.0	821.0	809.7	791.9	770.7	751.9	734.9
15°	908.2	904.3	904.3	899.6	886.5	872.6	860.9	842.2	815.5	793.0	769.3
17.5°	955.4	956.7	954.8	943.5	933.2	918.9	897.4	875.7	850.8	820.6	796.5
20°	983.7	983.7	981.6	973.9	960.6	945.2	922.1	898.4	866.9	836.5	809.3
22.5°	995.2	995.9	993.4	987.1	975.1	960.2	940.4	916.4	883.8	849.7	816.0
25°	979.5	984.0	984.4	982.8	979.2	970.1	953.1	928.6	899.4	862.3	826.0
27.5°	899.2	904.9	910.0	918.3	929.3	934.9	935.7	923.2	897.8	862.1	825.6
30°	819.3	824.0	839.6	859.9	875.7	890.0	902.5	905.8	891.5	859.5	821.0
32.5°	730.5	737.1	752.7	774.5	800.7	825.1	852.9	867.2	866.8	847.6	812.0
35°	603.2	608.0	622.4	645.3	676.8	713.0	757.2	791.5	815.0	813.3	791.5
37.5°	486.6	491.9	506.3	525.4	556.0	600.7	643.5	690.9	734.2	758.5	751.2
40°	423.0	423.2	437.4	457.0	485.6	524.6	571.2	623.8	672.1	711.6	719.1
42.5°	372.9	372.9	382.3	403.4	424.0	460.7	505.2	557.4	614.0	659.5	679.7
45°	308.3	310.4	318.1	330.7	347.0	378.1	413.7	462.2	525.5	579.6	613.3
47.5°	261.1	264.3	269.1	279.4	292.4	313.1	342.5	386.2	437.7	497.1	545.0
50°	236.6	237.1	243.3	249.0	260.2	276.8	302.6	338.9	386.3	443.3	496.7
52.5°	215.6	215.5	219.2	226.5	235.6	248.4	269.3	302.4	344.4	395.6	450.6
55°	184.0	185.2	188.1	193.8	200.8	209.8	226.3	251.2	284.2	327.9	377.9
57.5°	160.1	160.7	162.9	165.3	171.7	178.3	190.7	207.9	235.7	271.6	318.1
60°	144.3	144.6	145.3	148.9	153.9	160.2	168.5	183.1	206.5	239.2	276.1
62.5°	129.1	129.5	130.6	133.2	137.1	141.4	150.2	161.9	181.3	209.2	242.4
65°	107.6	107.8	109.5	110.4	113.5	117.3	123.8	131.7	145.1	168.5	193.6
67.5°	89.9	89.9	90.0	91.3	93.4	95.9	99.8	106.1	116.2	130.6	152.7
70°	78.4	78.4	78.9	79.6	80.8	82.9	85.1	89.9	97.3	109.0	125.9
72.5°	67.7	67.9	68.4	68.5	69.1	70.9	72.5	75.5	81.0	89.9	103.6
75°	49.7	50.4	51.6	52.6	53.8	53.5	55.2	57.2	58.8	64.0	71.9
77.5°	37.0	36.7	36.8	37.6	37.7	38.0	39.2	40.6	41.9	44.3	47.2
80°	28.2	28.2	28.9	29.2	28.9	29.2	30.4	31.1	31.5	32.5	35.1
82.5°	21.3	21.7	21.5	21.7	21.8	22.1	23.1	23.2	23.7	24.1	25.1
85°	11.9	12.2	12.4	11.9	11.9	11.9	12.4	12.6	13.1	12.9	13.4
87.5°	10.3	10.1	10.2	10.1	10.2	9.8	9.7	9.8	9.2	9.1	8.7
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°	45.4	45.1	44.8	44.6	44.3	43.8	42.9	42.1	41.3	40.5	39.3
95°	80.8	80.8	80.8	80.8	80.8	80.5	79.8	79.1	78.5	77.8	76.1
97.5°	126.6	126.6	126.6	126.6	126.6	126.2	125.4	124.6	123.8	123.0	121.1
100°	158.5	158.5	158.5	158.5	158.5	158.3	157.8	157.4	156.9	156.5	154.5
102.5°	194.6	194.4	194.2	194.0	193.9	193.5	192.8	192.2	191.6	190.9	189.0
105°	249.6	248.9	248.2	247.6	246.9	246.2	245.5	244.9	244.2	243.5	242.6
107.5°	303.3	303.3	303.4	303.4	303.4	303.2	302.5	301.8	301.2	300.5	300.4
110°	341.7	341.0	340.3	339.6	339.0	338.8	339.3	339.7	340.2	340.6	340.9



TEST NUMBER: P333024-840

CATALOG NUMBER: S124RDIW-S350D1050U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	381.0	380.8	380.7	380.6	380.4	380.4	380.5	380.6	380.7	380.8	381.2
115°	441.9	442.2	442.4	442.6	442.8	443.1	443.3	443.5	443.7	444.0	444.4
117.5°	500.1	500.5	501.0	501.4	501.9	502.5	503.2	504.0	504.8	505.5	505.9
120°	544.2	543.8	543.3	542.9	542.4	542.8	543.9	545.0	546.2	547.3	548.1
122.5°	581.1	581.9	582.7	583.5	584.3	585.1	585.9	586.7	587.4	588.2	588.5
125°	644.5	645.0	645.4	645.9	646.3	646.8	647.2	647.7	648.1	648.6	648.8
127.5°	703.3	703.6	704.0	704.3	704.7	705.1	705.6	706.0	706.5	706.9	707.3
130°	741.7	742.7	743.6	744.5	745.4	746.0	746.5	746.9	747.4	747.8	747.8
132.5°	782.6	782.9	783.4	783.8	784.1	784.5	785.0	785.4	785.9	786.3	786.5
135°	838.9	839.6	840.2	840.9	841.6	842.2	842.6	843.1	843.5	844.0	844.0
137.5°	898.0	897.9	897.8	897.6	897.5	897.7	898.3	898.9	899.5	900.1	899.7
140°	934.0	934.2	934.5	934.7	934.9	935.1	935.4	935.6	935.8	936.0	936.0
142.5°	970.1	970.1	970.2	970.2	970.2	970.3	970.3	970.4	970.4	970.5	970.7
145°	1019.0	1019.7	1020.3	1021.0	1021.7	1022.1	1022.4	1022.6	1022.8	1023.0	1022.8
147.5°	1068.4	1068.6	1068.9	1069.1	1069.3	1069.5	1069.8	1070.0	1070.2	1070.3	1070.5
150°	1098.7	1098.9	1099.2	1099.4	1099.6	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7
152.5°	1126.6	1127.1	1127.7	1128.3	1128.9	1128.9	1128.4	1127.8	1127.3	1126.8	1126.6
155°	1165.3	1166.2	1167.1	1168.0	1168.9	1168.9	1168.0	1167.1	1166.2	1165.3	1165.5
157.5°	1199.8	1200.6	1201.3	1202.1	1203.0	1203.0	1202.2	1201.6	1200.9	1200.2	1200.2
160°	1219.4	1220.6	1221.7	1222.8	1224.0	1224.3	1223.6	1222.8	1222.1	1221.5	1221.7
162.5°	1239.9	1241.0	1242.2	1243.3	1244.5	1244.5	1243.1	1241.9	1240.7	1239.5	1239.7
165°	1266.5	1267.4	1268.3	1269.2	1270.1	1269.9	1268.6	1267.2	1265.9	1264.5	1265.0
167.5°	1285.6	1287.0	1288.4	1289.8	1291.2	1291.2	1289.8	1288.5	1287.1	1285.8	1285.7
170°	1296.2	1297.8	1299.4	1301.0	1302.5	1302.6	1301.3	1299.9	1298.6	1297.2	1297.0
172.5°	1305.1	1306.8	1308.4	1310.0	1311.5	1311.6	1310.0	1308.5	1307.0	1305.4	1305.4
175°	1314.6	1316.2	1317.8	1319.4	1321.0	1321.0	1319.4	1317.8	1316.2	1314.6	1314.8
177.5°	1319.5	1321.0	1322.4	1323.8	1325.3	1325.4	1324.1	1322.9	1321.6	1320.3	1320.3
180°	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8



TEST NUMBER: P333024-840

CATALOG NUMBER: S124RDIW-S350D1050U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2
2.5°	611.2	608.5	607.1	604.1	600.5	598.5	596.8	594.3	591.1	587.6	585.2
5°	642.2	636.4	629.2	620.7	613.1	605.6	599.2	592.7	585.3	577.6	570.1
7.5°	674.0	662.8	650.6	636.4	622.8	610.3	598.7	587.8	575.4	564.2	554.1
10°	696.2	681.0	664.0	646.0	628.1	612.6	597.2	583.4	568.2	554.5	543.0
12.5°	714.2	696.2	675.8	653.5	631.9	613.1	595.5	577.4	560.1	545.3	530.0
15°	744.0	719.4	692.0	665.1	637.2	611.6	587.9	566.9	547.0	526.2	511.7
17.5°	764.6	735.3	701.9	669.7	636.7	606.5	579.3	554.2	531.3	510.1	492.7
20°	776.8	744.5	707.4	670.9	633.8	601.6	572.2	544.4	520.8	497.9	479.9
22.5°	783.7	747.9	707.4	669.1	630.8	595.8	563.6	534.7	509.0	485.9	466.2
25°	785.9	747.6	706.3	662.3	620.3	583.2	549.7	518.4	489.7	466.8	445.8
27.5°	782.7	737.7	695.4	650.3	606.8	567.8	532.7	499.8	471.1	446.5	424.9
30°	778.2	729.9	684.5	637.6	593.7	556.1	519.1	487.6	457.7	432.1	410.4
32.5°	768.2	720.3	671.5	623.5	579.0	540.3	505.1	473.4	444.1	418.0	394.9
35°	748.5	700.0	647.0	597.7	554.0	513.8	480.9	450.3	422.3	394.4	370.0
37.5°	722.6	673.1	620.3	566.3	522.5	484.6	454.4	425.7	398.4	372.8	345.9
40°	698.1	653.0	598.4	544.9	500.0	463.4	435.5	409.4	381.9	356.6	329.6
42.5°	668.5	630.1	574.9	521.2	476.9	441.6	415.6	390.1	365.1	340.5	312.4
45°	619.0	589.9	538.3	486.7	441.9	407.0	383.1	360.6	338.7	315.3	288.7
47.5°	562.3	542.6	498.1	445.1	403.8	372.4	349.3	330.9	312.4	288.9	265.7
50°	522.9	510.3	467.3	419.0	379.5	350.6	327.0	309.7	294.2	271.8	251.0
52.5°	480.9	474.1	437.8	391.6	353.6	325.2	305.0	289.5	273.8	255.1	235.7
55°	416.8	420.4	389.6	349.6	313.8	289.9	271.6	258.6	245.2	229.4	214.4
57.5°	351.3	364.5	343.8	308.7	275.1	253.0	239.1	228.3	217.0	204.0	191.1
60°	312.1	323.2	311.4	280.5	251.2	230.7	217.7	209.3	198.1	186.2	176.4
62.5°	273.9	285.7	278.7	253.8	226.5	208.8	197.4	189.7	181.3	170.9	160.7
65°	225.9	233.5	230.1	213.0	193.6	178.5	168.0	162.3	154.6	147.0	137.9
67.5°	173.0	187.7	185.8	176.6	160.0	148.1	141.3	136.2	129.3	123.6	117.4
70°	142.2	155.8	155.6	148.1	139.1	128.2	123.3	119.1	112.8	107.3	102.3
72.5°	116.4	128.9	130.8	125.0	118.9	110.5	105.9	103.0	96.9	93.2	89.1
75°	81.5	90.6	93.0	93.0	90.1	85.8	81.7	79.8	75.5	72.2	69.8
77.5°	53.4	59.2	62.9	63.7	64.2	62.7	59.4	58.1	54.7	53.6	51.3
80°	37.8	41.6	45.8	47.4	48.5	48.1	46.7	45.6	42.5	41.3	40.4
82.5°	26.1	28.2	31.7	34.9	34.5	35.9	34.5	33.8	31.4	31.0	30.1
85°	13.6	13.8	14.3	16.5	17.7	18.2	18.4	18.0	17.2	17.2	15.6
87.5°	8.4	7.8	7.8	7.4	7.1	7.4	7.5	7.1	7.1	7.0	6.9
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°	38.0	36.7	35.4	33.3	30.5	27.7	24.7	21.9	24.7	27.7	30.5
95°	74.5	73.0	71.4	69.6	67.6	65.4	63.4	61.4	63.4	65.4	67.6
97.5°	119.3	117.3	115.5	113.8	112.1	110.5	108.9	107.2	108.9	110.5	112.1
100°	152.4	150.4	148.3	146.8	145.9	145.0	144.1	143.2	144.1	145.0	145.9
102.5°	187.1	185.3	183.4	182.3	182.0	181.6	181.3	180.9	181.3	181.6	182.0
105°	241.7	240.8	239.8	239.2	239.0	238.8	238.6	238.3	238.6	238.8	239.0
107.5°	300.3	300.1	300.0	299.8	299.5	299.2	299.0	298.7	299.0	299.2	299.5
110°	341.1	341.3	341.5	341.4	341.0	340.5	340.1	339.6	340.1	340.5	341.0



TEST NUMBER: P333024-840

CATALOG NUMBER: S124RDIW-S350D1050U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	381.6	382.0	382.4	382.5	382.4	382.4	382.3	382.2	382.3	382.4	382.4
115°	444.9	445.4	445.9	446.1	446.1	446.1	446.1	446.1	446.1	446.1	446.1
117.5°	506.2	506.5	506.9	507.0	506.8	506.5	506.3	506.2	506.3	506.5	506.8
120°	548.7	549.4	550.1	550.0	549.1	548.2	547.2	546.3	547.2	548.2	549.1
122.5°	588.9	589.2	589.6	589.5	589.2	588.8	588.4	588.0	588.4	588.8	589.2
125°	649.0	649.2	649.5	649.6	649.6	649.6	649.6	649.6	649.6	649.6	649.6
127.5°	707.6	708.0	708.4	708.2	707.5	706.8	706.2	705.5	706.2	706.8	707.5
130°	747.8	747.8	747.8	747.5	746.8	746.1	745.5	744.8	745.5	746.1	746.8
132.5°	786.7	786.9	787.0	786.9	786.4	785.9	785.4	784.9	785.4	785.9	786.4
135°	844.0	844.0	844.0	843.3	841.9	840.6	839.2	837.9	839.2	840.6	841.9
137.5°	899.4	899.0	898.6	898.1	897.5	896.9	896.2	895.5	896.2	896.9	897.5
140°	936.0	936.0	936.0	935.8	935.4	934.9	934.5	934.0	934.5	934.9	935.4
142.5°	970.8	971.0	971.2	971.1	970.6	970.2	969.7	969.3	969.7	970.2	970.6
145°	1022.6	1022.4	1022.1	1021.6	1020.7	1019.8	1018.9	1017.9	1018.9	1019.8	1020.7
147.5°	1070.7	1070.9	1071.1	1070.6	1069.4	1068.4	1067.3	1066.2	1067.3	1068.4	1069.4
150°	1099.7	1099.7	1099.7	1099.3	1098.4	1097.5	1096.6	1095.7	1096.6	1097.5	1098.4
152.5°	1126.4	1126.2	1126.0	1125.7	1125.1	1124.6	1124.1	1123.5	1124.1	1124.6	1125.1
155°	1165.7	1165.9	1166.2	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3
157.5°	1200.3	1200.3	1200.4	1200.6	1201.0	1201.4	1201.8	1202.2	1201.8	1201.4	1201.0
160°	1221.9	1222.1	1222.4	1222.6	1222.8	1223.0	1223.4	1223.6	1223.4	1223.0	1222.8
162.5°	1240.0	1240.2	1240.4	1240.8	1241.4	1242.0	1242.6	1243.1	1242.6	1242.0	1241.4
165°	1265.4	1265.9	1266.3	1266.9	1267.6	1268.2	1268.9	1269.6	1268.9	1268.2	1267.6
167.5°	1285.7	1285.7	1285.6	1286.1	1287.0	1288.0	1288.9	1289.8	1288.9	1288.0	1287.0
170°	1296.8	1296.6	1296.3	1296.8	1297.9	1299.0	1300.2	1301.3	1300.2	1299.0	1297.9
172.5°	1305.4	1305.3	1305.3	1305.7	1306.7	1307.6	1308.5	1309.5	1308.5	1307.6	1306.7
175°	1315.0	1315.2	1315.6	1316.2	1317.4	1318.5	1319.6	1320.7	1319.6	1318.5	1317.4
177.5°	1320.3	1320.3	1320.3	1320.8	1321.7	1322.6	1323.5	1324.4	1323.5	1322.6	1321.7
180°	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8



TEST NUMBER: P333024-840

CATALOG NUMBER: S124RDIW-S350D1050U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2
2.5°	582.5	580.6	578.1	575.2	571.8	568.8	567.3	568.6	569.2	567.5	567.3
5°	564.7	558.8	554.0	546.8	541.1	536.3	533.0	531.5	532.0	528.2	527.3
7.5°	544.8	537.8	529.9	521.4	513.5	506.4	502.8	500.8	496.7	494.9	492.0
10°	532.0	522.5	514.8	504.7	495.6	487.4	483.2	479.9	475.8	473.9	469.9
12.5°	518.9	507.8	499.3	488.9	479.6	469.6	465.6	459.5	453.1	449.1	443.8
15°	500.2	486.9	476.6	464.1	453.1	441.7	431.4	419.9	415.7	406.6	401.3
17.5°	478.5	464.9	452.2	435.6	418.6	404.2	393.3	382.3	375.8	370.0	367.3
20°	464.1	451.7	434.0	414.7	395.8	380.0	371.1	364.0	356.8	352.7	349.9
22.5°	450.6	434.6	414.1	393.2	374.4	362.0	354.6	347.2	341.3	337.5	333.7
25°	427.8	407.0	385.3	361.3	348.5	337.7	329.6	323.6	320.0	315.0	313.1
27.5°	404.5	379.2	355.3	339.2	325.8	315.9	308.8	304.4	299.8	296.6	294.1
30°	386.5	360.9	339.4	324.1	310.4	302.4	296.6	291.3	287.7	285.1	283.3
32.5°	368.7	343.2	325.1	308.6	297.8	289.9	283.8	279.8	277.0	273.7	272.5
35°	343.0	320.2	304.5	289.6	278.7	271.6	266.7	262.7	260.2	259.3	258.6
37.5°	318.2	299.6	282.7	270.5	260.7	255.1	249.4	247.4	245.8	244.1	244.9
40°	302.6	285.1	270.0	257.2	249.2	243.1	239.7	237.3	235.9	235.9	235.9
42.5°	289.0	272.0	257.2	245.7	237.8	232.6	228.8	226.8	226.3	226.1	227.3
45°	267.9	252.2	237.3	227.7	221.1	215.8	213.7	212.0	212.0	213.0	213.2
47.5°	247.0	232.3	220.4	209.6	203.5	200.3	198.3	197.5	197.6	198.5	199.7
50°	234.2	219.6	207.9	198.3	192.7	189.6	187.8	187.3	187.8	187.8	189.6
52.5°	220.3	207.2	195.7	187.6	181.2	178.2	177.3	176.6	176.9	177.7	178.4
55°	199.9	188.1	177.1	169.5	164.7	162.8	160.6	160.9	160.4	160.9	160.9
57.5°	179.3	168.7	158.5	152.5	148.2	145.5	143.2	143.8	143.1	143.0	142.6
60°	166.1	154.6	146.5	141.0	136.2	133.8	131.7	132.2	131.5	131.0	130.0
62.5°	151.8	142.2	134.4	129.2	125.3	122.6	120.4	120.0	118.3	116.6	114.5
65°	131.0	123.1	116.1	111.2	107.6	105.4	103.7	102.3	98.7	94.9	93.0
67.5°	110.8	105.0	98.6	94.3	91.4	88.7	85.4	83.0	79.7	77.6	76.3
70°	97.8	92.3	86.7	82.7	79.6	77.0	73.4	71.7	69.3	68.4	67.2
72.5°	85.3	80.2	75.1	71.4	68.2	66.0	63.2	61.6	60.5	60.1	59.0
75°	66.4	62.4	58.6	55.2	52.6	51.1	50.0	48.8	48.3	46.2	44.9
77.5°	48.5	45.7	43.4	41.0	39.2	38.2	35.9	34.5	33.7	32.7	32.4
80°	37.8	35.9	33.4	32.0	29.4	28.5	27.5	27.3	27.0	26.8	26.6
82.5°	28.4	26.5	24.1	23.2	22.5	21.9	21.4	21.1	20.9	21.0	21.0
85°	14.3	13.4	13.4	13.1	12.9	12.6	12.4	12.4	12.2	12.4	12.2
87.5°	7.4	7.7	8.0	8.0	8.6	8.9	9.0	9.3	9.7	9.6	9.8
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°	33.3	35.4	36.7	38.0	39.3	40.5	41.3	42.1	42.9	43.8	44.3
95°	69.6	71.4	73.0	74.5	76.1	77.8	78.5	79.1	79.8	80.5	80.8
97.5°	113.8	115.5	117.3	119.3	121.1	123.0	123.8	124.6	125.4	126.2	126.6
100°	146.8	148.3	150.4	152.4	154.5	156.5	156.9	157.4	157.8	158.3	158.5
102.5°	182.3	183.4	185.3	187.1	189.0	190.9	191.6	192.2	192.8	193.5	193.9
105°	239.2	239.8	240.8	241.7	242.6	243.5	244.2	244.9	245.5	246.2	246.9
107.5°	299.8	300.0	300.1	300.3	300.4	300.5	301.2	301.8	302.5	303.2	303.4
110°	341.4	341.5	341.3	341.1	340.9	340.6	340.2	339.7	339.3	338.8	339.0



TEST NUMBER: P333024-840

CATALOG NUMBER: S124RDIW-S350D1050U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	382.5	382.4	382.0	381.6	381.2	380.8	380.7	380.6	380.5	380.4	380.4
115°	446.1	445.9	445.4	444.9	444.4	444.0	443.7	443.5	443.3	443.1	442.8
117.5°	507.0	506.9	506.5	506.2	505.9	505.5	504.8	504.0	503.2	502.5	501.9
120°	550.0	550.1	549.4	548.7	548.1	547.3	546.2	545.0	543.9	542.8	542.4
122.5°	589.5	589.6	589.2	588.9	588.5	588.2	587.4	586.7	585.9	585.1	584.3
125°	649.6	649.5	649.2	649.0	648.8	648.6	648.1	647.7	647.2	646.8	646.3
127.5°	708.2	708.4	708.0	707.6	707.3	706.9	706.5	706.0	705.6	705.1	704.7
130°	747.5	747.8	747.8	747.8	747.8	747.8	747.4	746.9	746.5	746.0	745.4
132.5°	786.9	787.0	786.9	786.7	786.5	786.3	785.9	785.4	785.0	784.5	784.1
135°	843.3	844.0	844.0	844.0	844.0	844.0	843.5	843.1	842.6	842.2	841.6
137.5°	898.1	898.6	899.0	899.4	899.7	900.1	899.5	898.9	898.3	897.7	897.5
140°	935.8	936.0	936.0	936.0	936.0	936.0	935.8	935.6	935.4	935.1	934.9
142.5°	971.1	971.2	971.0	970.8	970.7	970.5	970.4	970.4	970.3	970.3	970.2
145°	1021.6	1022.1	1022.4	1022.6	1022.8	1023.0	1022.8	1022.6	1022.4	1022.1	1021.7
147.5°	1070.6	1071.1	1070.9	1070.7	1070.5	1070.3	1070.2	1070.0	1069.8	1069.5	1069.3
150°	1099.3	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.6
152.5°	1125.7	1126.0	1126.2	1126.4	1126.6	1126.8	1127.3	1127.8	1128.4	1128.9	1128.9
155°	1166.3	1166.2	1165.9	1165.7	1165.5	1165.3	1166.2	1167.1	1168.0	1168.9	1168.9
157.5°	1200.6	1200.4	1200.3	1200.3	1200.2	1200.2	1200.9	1201.6	1202.2	1203.0	1203.0
160°	1222.6	1222.4	1222.1	1221.9	1221.7	1221.5	1222.1	1222.8	1223.6	1224.3	1224.0
162.5°	1240.8	1240.4	1240.2	1240.0	1239.7	1239.5	1240.7	1241.9	1243.1	1244.5	1244.5
165°	1266.9	1266.3	1265.9	1265.4	1265.0	1264.5	1265.9	1267.2	1268.6	1269.9	1270.1
167.5°	1286.1	1285.6	1285.7	1285.7	1285.7	1285.8	1287.1	1288.5	1289.8	1291.2	1291.2
170°	1296.8	1296.3	1296.6	1296.8	1297.0	1297.2	1298.6	1299.9	1301.3	1302.6	1302.5
172.5°	1305.7	1305.3	1305.3	1305.4	1305.4	1305.4	1307.0	1308.5	1310.0	1311.6	1311.5
175°	1316.2	1315.6	1315.2	1315.0	1314.8	1314.6	1316.2	1317.8	1319.4	1321.0	1321.0
177.5°	1320.8	1320.3	1320.3	1320.3	1320.3	1320.3	1321.6	1322.9	1324.1	1325.4	1325.3
180°	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8



TEST NUMBER: P333024-840

CATALOG NUMBER: S124RDIW-S350D1050U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2
2.5°	566.2	566.6	565.3	564.9	565.3	566.6	566.2	567.3	567.5	569.2	568.6
5°	525.3	524.8	523.6	523.9	523.6	524.8	525.3	527.3	528.2	532.0	531.5
7.5°	490.3	488.5	489.0	487.1	489.0	488.5	490.3	492.0	494.9	496.7	500.8
10°	468.9	466.3	464.1	462.2	464.1	466.3	468.9	469.9	473.9	475.8	479.9
12.5°	439.7	437.4	434.5	435.0	434.5	437.4	439.7	443.8	449.1	453.1	459.5
15°	398.2	394.6	388.9	389.6	388.9	394.6	398.2	401.3	406.6	415.7	419.9
17.5°	363.0	363.0	360.4	361.1	360.4	363.0	363.0	367.3	370.0	375.8	382.3
20°	344.9	343.3	343.5	342.7	343.5	343.3	344.9	349.9	352.7	356.8	364.0
22.5°	332.2	330.2	328.5	327.1	328.5	330.2	332.2	333.7	337.5	341.3	347.2
25°	310.9	309.5	307.4	306.9	307.4	309.5	310.9	313.1	315.0	320.0	323.6
27.5°	292.2	292.0	291.0	289.9	291.0	292.0	292.2	294.1	296.6	299.8	304.4
30°	281.3	280.8	280.3	279.6	280.3	280.8	281.3	283.3	285.1	287.7	291.3
32.5°	271.6	271.2	270.7	270.8	270.7	271.2	271.6	272.5	273.7	277.0	279.8
35°	257.6	257.4	256.9	256.7	256.9	257.4	257.6	258.6	259.3	260.2	262.7
37.5°	244.7	245.3	245.0	244.9	245.0	245.3	244.7	244.9	244.1	245.8	247.4
40°	235.7	235.9	236.4	236.1	236.4	235.9	235.7	235.9	235.9	235.9	237.3
42.5°	228.2	228.2	228.9	228.1	228.9	228.2	228.2	227.3	226.1	226.3	226.8
45°	214.9	216.3	216.0	216.0	216.0	216.3	214.9	213.2	213.0	212.0	212.0
47.5°	200.3	201.6	201.9	201.8	201.9	201.6	200.3	199.7	198.5	197.6	197.5
50°	190.8	190.3	191.0	190.8	191.0	190.3	190.8	189.6	187.8	187.8	187.3
52.5°	179.0	179.2	179.2	178.8	179.2	179.2	179.0	178.4	177.7	176.9	176.6
55°	161.1	161.4	160.9	161.1	160.9	161.4	161.1	160.9	160.9	160.4	160.9
57.5°	141.6	140.5	140.9	140.4	140.9	140.5	141.6	142.6	143.0	143.1	143.8
60°	127.6	125.7	125.2	124.3	125.2	125.7	127.6	130.0	131.0	131.5	132.2
62.5°	112.0	110.6	109.0	109.8	109.0	110.6	112.0	114.5	116.6	118.3	120.0
65°	91.1	90.1	89.4	90.4	89.4	90.1	91.1	93.0	94.9	98.7	102.3
67.5°	75.3	74.8	74.8	74.4	74.8	74.8	75.3	76.3	77.6	79.7	83.0
70°	67.2	66.4	66.4	65.9	66.4	66.4	67.2	67.2	68.4	69.3	71.7
72.5°	58.8	58.1	58.3	58.0	58.3	58.1	58.8	59.0	60.1	60.5	61.6
75°	43.5	42.3	42.3	42.5	42.3	42.3	43.5	44.9	46.2	48.3	48.8
77.5°	32.4	32.2	32.5	32.1	32.5	32.2	32.4	32.4	32.7	33.7	34.5
80°	26.6	26.3	26.1	26.8	26.1	26.3	26.6	26.6	26.8	27.0	27.3
82.5°	20.6	20.6	20.5	21.4	20.5	20.6	20.6	21.0	21.0	20.9	21.1
85°	12.4	11.9	12.4	11.9	12.4	11.9	12.4	12.2	12.4	12.2	12.4
87.5°	10.3	10.2	10.1	10.3	10.1	10.2	10.3	9.8	9.6	9.7	9.3
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°	44.6	44.8	45.1	45.4	45.1	44.8	44.6	44.3	43.8	42.9	42.1
95°	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.5	79.8	79.1
97.5°	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.2	125.4	124.6
100°	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.3	157.8	157.4
102.5°	194.0	194.2	194.4	194.6	194.4	194.2	194.0	193.9	193.5	192.8	192.2
105°	247.6	248.2	248.9	249.6	248.9	248.2	247.6	246.9	246.2	245.5	244.9
107.5°	303.4	303.4	303.3	303.3	303.3	303.4	303.4	303.4	303.2	302.5	301.8
110°	339.6	340.3	341.0	341.7	341.0	340.3	339.6	339.0	338.8	339.3	339.7



TEST NUMBER: P333024-840

CATALOG NUMBER: S124RDIW-S350D1050U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	380.6	380.7	380.8	381.0	380.8	380.7	380.6	380.4	380.4	380.5	380.6
115°	442.6	442.4	442.2	441.9	442.2	442.4	442.6	442.8	443.1	443.3	443.5
117.5°	501.4	501.0	500.5	500.1	500.5	501.0	501.4	501.9	502.5	503.2	504.0
120°	542.9	543.3	543.8	544.2	543.8	543.3	542.9	542.4	542.8	543.9	545.0
122.5°	583.5	582.7	581.9	581.1	581.9	582.7	583.5	584.3	585.1	585.9	586.7
125°	645.9	645.4	645.0	644.5	645.0	645.4	645.9	646.3	646.8	647.2	647.7
127.5°	704.3	704.0	703.6	703.3	703.6	704.0	704.3	704.7	705.1	705.6	706.0
130°	744.5	743.6	742.7	741.7	742.7	743.6	744.5	745.4	746.0	746.5	746.9
132.5°	783.8	783.4	782.9	782.6	782.9	783.4	783.8	784.1	784.5	785.0	785.4
135°	840.9	840.2	839.6	838.9	839.6	840.2	840.9	841.6	842.2	842.6	843.1
137.5°	897.6	897.8	897.9	898.0	897.9	897.8	897.6	897.5	897.7	898.3	898.9
140°	934.7	934.5	934.2	934.0	934.2	934.5	934.7	934.9	935.1	935.4	935.6
142.5°	970.2	970.2	970.1	970.1	970.1	970.2	970.2	970.2	970.3	970.3	970.4
145°	1021.0	1020.3	1019.7	1019.0	1019.7	1020.3	1021.0	1021.7	1022.1	1022.4	1022.6
147.5°	1069.1	1068.9	1068.6	1068.4	1068.6	1068.9	1069.1	1069.3	1069.5	1069.8	1070.0
150°	1099.4	1099.2	1098.9	1098.7	1098.9	1099.2	1099.4	1099.6	1099.7	1099.7	1099.7
152.5°	1128.3	1127.7	1127.1	1126.6	1127.1	1127.7	1128.3	1128.9	1128.9	1128.4	1127.8
155°	1168.0	1167.1	1166.2	1165.3	1166.2	1167.1	1168.0	1168.9	1168.9	1168.0	1167.1
157.5°	1202.1	1201.3	1200.6	1199.8	1200.6	1201.3	1202.1	1203.0	1203.0	1202.2	1201.6
160°	1222.8	1221.7	1220.6	1219.4	1220.6	1221.7	1222.8	1224.0	1224.3	1223.6	1222.8
162.5°	1243.3	1242.2	1241.0	1239.9	1241.0	1242.2	1243.3	1244.5	1244.5	1243.1	1241.9
165°	1269.2	1268.3	1267.4	1266.5	1267.4	1268.3	1269.2	1270.1	1269.9	1268.6	1267.2
167.5°	1289.8	1288.4	1287.0	1285.6	1287.0	1288.4	1289.8	1291.2	1291.2	1289.8	1288.5
170°	1301.0	1299.4	1297.8	1296.2	1297.8	1299.4	1301.0	1302.5	1302.6	1301.3	1299.9
172.5°	1310.0	1308.4	1306.8	1305.1	1306.8	1308.4	1310.0	1311.5	1311.6	1310.0	1308.5
175°	1319.4	1317.8	1316.2	1314.6	1316.2	1317.8	1319.4	1321.0	1321.0	1319.4	1317.8
177.5°	1323.8	1322.4	1321.0	1319.5	1321.0	1322.4	1323.8	1325.3	1325.4	1324.1	1322.9
180°	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8



TEST NUMBER: P333024-840

CATALOG NUMBER: S124RDIW-S350D1050U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2
2.5°	567.3	568.8	571.8	575.2	578.1	580.6	582.5	585.2	587.6	591.1	594.3
5°	533.0	536.3	541.1	546.8	554.0	558.8	564.7	570.1	577.6	585.3	592.7
7.5°	502.8	506.4	513.5	521.4	529.9	537.8	544.8	554.1	564.2	575.4	587.8
10°	483.2	487.4	495.6	504.7	514.8	522.5	532.0	543.0	554.5	568.2	583.4
12.5°	465.6	469.6	479.6	488.9	499.3	507.8	518.9	530.0	545.3	560.1	577.4
15°	431.4	441.7	453.1	464.1	476.6	486.9	500.2	511.7	526.2	547.0	566.9
17.5°	393.3	404.2	418.6	435.6	452.2	464.9	478.5	492.7	510.1	531.3	554.2
20°	371.1	380.0	395.8	414.7	434.0	451.7	464.1	479.9	497.9	520.8	544.4
22.5°	354.6	362.0	374.4	393.2	414.1	434.6	450.6	466.2	485.9	509.0	534.7
25°	329.6	337.7	348.5	361.3	385.3	407.0	427.8	445.8	466.8	489.7	518.4
27.5°	308.8	315.9	325.8	339.2	355.3	379.2	404.5	424.9	446.5	471.1	499.8
30°	296.6	302.4	310.4	324.1	339.4	360.9	386.5	410.4	432.1	457.7	487.6
32.5°	283.8	289.9	297.8	308.6	325.1	343.2	368.7	394.9	418.0	444.1	473.4
35°	266.7	271.6	278.7	289.6	304.5	320.2	343.0	370.0	394.4	422.3	450.3
37.5°	249.4	255.1	260.7	270.5	282.7	299.6	318.2	345.9	372.8	398.4	425.7
40°	239.7	243.1	249.2	257.2	270.0	285.1	302.6	329.6	356.6	381.9	409.4
42.5°	228.8	232.6	237.8	245.7	257.2	272.0	289.0	312.4	340.5	365.1	390.1
45°	213.7	215.8	221.1	227.7	237.3	252.2	267.9	288.7	315.3	338.7	360.6
47.5°	198.3	200.3	203.5	209.6	220.4	232.3	247.0	265.7	288.9	312.4	330.9
50°	187.8	189.6	192.7	198.3	207.9	219.6	234.2	251.0	271.8	294.2	309.7
52.5°	177.3	178.2	181.2	187.6	195.7	207.2	220.3	235.7	255.1	273.8	289.5
55°	160.6	162.8	164.7	169.5	177.1	188.1	199.9	214.4	229.4	245.2	258.6
57.5°	143.2	145.5	148.2	152.5	158.5	168.7	179.3	191.1	204.0	217.0	228.3
60°	131.7	133.8	136.2	141.0	146.5	154.6	166.1	176.4	186.2	198.1	209.3
62.5°	120.4	122.6	125.3	129.2	134.4	142.2	151.8	160.7	170.9	181.3	189.7
65°	103.7	105.4	107.6	111.2	116.1	123.1	131.0	137.9	147.0	154.6	162.3
67.5°	85.4	88.7	91.4	94.3	98.6	105.0	110.8	117.4	123.6	129.3	136.2
70°	73.4	77.0	79.6	82.7	86.7	92.3	97.8	102.3	107.3	112.8	119.1
72.5°	63.2	66.0	68.2	71.4	75.1	80.2	85.3	89.1	93.2	96.9	103.0
75°	50.0	51.1	52.6	55.2	58.6	62.4	66.4	69.8	72.2	75.5	79.8
77.5°	35.9	38.2	39.2	41.0	43.4	45.7	48.5	51.3	53.6	54.7	58.1
80°	27.5	28.5	29.4	32.0	33.4	35.9	37.8	40.4	41.3	42.5	45.6
82.5°	21.4	21.9	22.5	23.2	24.1	26.5	28.4	30.1	31.0	31.4	33.8
85°	12.4	12.6	12.9	13.1	13.4	13.4	14.3	15.6	17.2	17.2	18.0
87.5°	9.0	8.9	8.6	8.0	8.0	7.7	7.4	6.9	7.0	7.1	7.1
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°	41.3	40.5	39.3	38.0	36.7	35.4	33.3	30.5	27.7	24.7	21.9
95°	78.5	77.8	76.1	74.5	73.0	71.4	69.6	67.6	65.4	63.4	61.4
97.5°	123.8	123.0	121.1	119.3	117.3	115.5	113.8	112.1	110.5	108.9	107.2
100°	156.9	156.5	154.5	152.4	150.4	148.3	146.8	145.9	145.0	144.1	143.2
102.5°	191.6	190.9	189.0	187.1	185.3	183.4	182.3	182.0	181.6	181.3	180.9
105°	244.2	243.5	242.6	241.7	240.8	239.8	239.2	239.0	238.8	238.6	238.3
107.5°	301.2	300.5	300.4	300.3	300.1	300.0	299.8	299.5	299.2	299.0	298.7
110°	340.2	340.6	340.9	341.1	341.3	341.5	341.4	341.0	340.5	340.1	339.6



TEST NUMBER: P333024-840

CATALOG NUMBER: S124RDIW-S350D1050U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	380.7	380.8	381.2	381.6	382.0	382.4	382.5	382.4	382.4	382.3	382.2
115°	443.7	444.0	444.4	444.9	445.4	445.9	446.1	446.1	446.1	446.1	446.1
117.5°	504.8	505.5	505.9	506.2	506.5	506.9	507.0	506.8	506.5	506.3	506.2
120°	546.2	547.3	548.1	548.7	549.4	550.1	550.0	549.1	548.2	547.2	546.3
122.5°	587.4	588.2	588.5	588.9	589.2	589.6	589.5	589.2	588.8	588.4	588.0
125°	648.1	648.6	648.8	649.0	649.2	649.5	649.6	649.6	649.6	649.6	649.6
127.5°	706.5	706.9	707.3	707.6	708.0	708.4	708.2	707.5	706.8	706.2	705.5
130°	747.4	747.8	747.8	747.8	747.8	747.8	747.5	746.8	746.1	745.5	744.8
132.5°	785.9	786.3	786.5	786.7	786.9	787.0	786.9	786.4	785.9	785.4	784.9
135°	843.5	844.0	844.0	844.0	844.0	844.0	843.3	841.9	840.6	839.2	837.9
137.5°	899.5	900.1	899.7	899.4	899.0	898.6	898.1	897.5	896.9	896.2	895.5
140°	935.8	936.0	936.0	936.0	936.0	936.0	935.8	935.4	934.9	934.5	934.0
142.5°	970.4	970.5	970.7	970.8	971.0	971.2	971.1	970.6	970.2	969.7	969.3
145°	1022.8	1023.0	1022.8	1022.6	1022.4	1022.1	1021.6	1020.7	1019.8	1018.9	1017.9
147.5°	1070.2	1070.3	1070.5	1070.7	1070.9	1071.1	1070.6	1069.4	1068.4	1067.3	1066.2
150°	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.3	1098.4	1097.5	1096.6	1095.7
152.5°	1127.3	1126.8	1126.6	1126.4	1126.2	1126.0	1125.7	1125.1	1124.6	1124.1	1123.5
155°	1166.2	1165.3	1165.5	1165.7	1165.9	1166.2	1166.3	1166.3	1166.3	1166.3	1166.3
157.5°	1200.9	1200.2	1200.2	1200.3	1200.3	1200.4	1200.6	1201.0	1201.4	1201.8	1202.2
160°	1222.1	1221.5	1221.7	1221.9	1222.1	1222.4	1222.6	1222.8	1223.0	1223.4	1223.6
162.5°	1240.7	1239.5	1239.7	1240.0	1240.2	1240.4	1240.8	1241.4	1242.0	1242.6	1243.1
165°	1265.9	1264.5	1265.0	1265.4	1265.9	1266.3	1266.9	1267.6	1268.2	1268.9	1269.6
167.5°	1287.1	1285.8	1285.7	1285.7	1285.7	1285.6	1286.1	1287.0	1288.0	1288.9	1289.8
170°	1298.6	1297.2	1297.0	1296.8	1296.6	1296.3	1296.8	1297.9	1299.0	1300.2	1301.3
172.5°	1307.0	1305.4	1305.4	1305.4	1305.3	1305.3	1305.7	1306.7	1307.6	1308.5	1309.5
175°	1316.2	1314.6	1314.8	1315.0	1315.2	1315.6	1316.2	1317.4	1318.5	1319.6	1320.7
177.5°	1321.6	1320.3	1320.3	1320.3	1320.3	1320.3	1320.8	1321.7	1322.6	1323.5	1324.4
180°	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8



TEST NUMBER: P333024-840

CATALOG NUMBER: S124RDIW-S350D1050U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2
2.5°	596.8	598.5	600.5	604.1	607.1	608.5	611.2	613.1	612.5	615.2	619.8
5°	599.2	605.6	613.1	620.7	629.2	636.4	642.2	647.9	652.5	657.9	666.1
7.5°	598.7	610.3	622.8	636.4	650.6	662.8	674.0	685.5	695.7	706.8	721.4
10°	597.2	612.6	628.1	646.0	664.0	681.0	696.2	710.5	724.2	738.7	757.2
12.5°	595.5	613.1	631.9	653.5	675.8	696.2	714.2	734.9	751.9	770.7	791.9
15°	587.9	611.6	637.2	665.1	692.0	719.4	744.0	769.3	793.0	815.5	842.2
17.5°	579.3	606.5	636.7	669.7	701.9	735.3	764.6	796.5	820.6	850.8	875.7
20°	572.2	601.6	633.8	670.9	707.4	744.5	776.8	809.3	836.5	866.9	898.4
22.5°	563.6	595.8	630.8	669.1	707.4	747.9	783.7	816.0	849.7	883.8	916.4
25°	549.7	583.2	620.3	662.3	706.3	747.6	785.9	826.0	862.3	899.4	928.6
27.5°	532.7	567.8	606.8	650.3	695.4	737.7	782.7	825.6	862.1	897.8	923.2
30°	519.1	556.1	593.7	637.6	684.5	729.9	778.2	821.0	859.5	891.5	905.8
32.5°	505.1	540.3	579.0	623.5	671.5	720.3	768.2	812.0	847.6	866.8	867.2
35°	480.9	513.8	554.0	597.7	647.0	700.0	748.5	791.5	813.3	815.0	791.5
37.5°	454.4	484.6	522.5	566.3	620.3	673.1	722.6	751.2	758.5	734.2	690.9
40°	435.5	463.4	500.0	544.9	598.4	653.0	698.1	719.1	711.6	672.1	623.8
42.5°	415.6	441.6	476.9	521.2	574.9	630.1	668.5	679.7	659.5	614.0	557.4
45°	383.1	407.0	441.9	486.7	538.3	589.9	619.0	613.3	579.6	525.5	462.2
47.5°	349.3	372.4	403.8	445.1	498.1	542.6	562.3	545.0	497.1	437.7	386.2
50°	327.0	350.6	379.5	419.0	467.3	510.3	522.9	496.7	443.3	386.3	338.9
52.5°	305.0	325.2	353.6	391.6	437.8	474.1	480.9	450.6	395.6	344.4	302.4
55°	271.6	289.9	313.8	349.6	389.6	420.4	416.8	377.9	327.9	284.2	251.2
57.5°	239.1	253.0	275.1	308.7	343.8	364.5	351.3	318.1	271.6	235.7	207.9
60°	217.7	230.7	251.2	280.5	311.4	323.2	312.1	276.1	239.2	206.5	183.1
62.5°	197.4	208.8	226.5	253.8	278.7	285.7	273.9	242.4	209.2	181.3	161.9
65°	168.0	178.5	193.6	213.0	230.1	233.5	225.9	193.6	168.5	145.1	131.7
67.5°	141.3	148.1	160.0	176.6	185.8	187.7	173.0	152.7	130.6	116.2	106.1
70°	123.3	128.2	139.1	148.1	155.6	155.8	142.2	125.9	109.0	97.3	89.9
72.5°	105.9	110.5	118.9	125.0	130.8	128.9	116.4	103.6	89.9	81.0	75.5
75°	81.7	85.8	90.1	93.0	93.0	90.6	81.5	71.9	64.0	58.8	57.2
77.5°	59.4	62.7	64.2	63.7	62.9	59.2	53.4	47.2	44.3	41.9	40.6
80°	46.7	48.1	48.5	47.4	45.8	41.6	37.8	35.1	32.5	31.5	31.1
82.5°	34.5	35.9	34.5	34.9	31.7	28.2	26.1	25.1	24.1	23.7	23.2
85°	18.4	18.2	17.7	16.5	14.3	13.8	13.6	13.4	12.9	13.1	12.6
87.5°	7.5	7.4	7.1	7.4	7.8	7.8	8.4	8.7	9.1	9.2	9.8
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°	24.7	27.7	30.5	33.3	35.4	36.7	38.0	39.3	40.5	41.3	42.1
95°	63.4	65.4	67.6	69.6	71.4	73.0	74.5	76.1	77.8	78.5	79.1
97.5°	108.9	110.5	112.1	113.8	115.5	117.3	119.3	121.1	123.0	123.8	124.6
100°	144.1	145.0	145.9	146.8	148.3	150.4	152.4	154.5	156.5	156.9	157.4
102.5°	181.3	181.6	182.0	182.3	183.4	185.3	187.1	189.0	190.9	191.6	192.2
105°	238.6	238.8	239.0	239.2	239.8	240.8	241.7	242.6	243.5	244.2	244.9
107.5°	299.0	299.2	299.5	299.8	300.0	300.1	300.3	300.4	300.5	301.2	301.8
110°	340.1	340.5	341.0	341.4	341.5	341.3	341.1	340.9	340.6	340.2	339.7



TEST NUMBER: P333024-840

CATALOG NUMBER: S124RDIW-S350D1050U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	382.3	382.4	382.4	382.5	382.4	382.0	381.6	381.2	380.8	380.7	380.6
115°	446.1	446.1	446.1	446.1	445.9	445.4	444.9	444.4	444.0	443.7	443.5
117.5°	506.3	506.5	506.8	507.0	506.9	506.5	506.2	505.9	505.5	504.8	504.0
120°	547.2	548.2	549.1	550.0	550.1	549.4	548.7	548.1	547.3	546.2	545.0
122.5°	588.4	588.8	589.2	589.5	589.6	589.2	588.9	588.5	588.2	587.4	586.7
125°	649.6	649.6	649.6	649.6	649.5	649.2	649.0	648.8	648.6	648.1	647.7
127.5°	706.2	706.8	707.5	708.2	708.4	708.0	707.6	707.3	706.9	706.5	706.0
130°	745.5	746.1	746.8	747.5	747.8	747.8	747.8	747.8	747.8	747.4	746.9
132.5°	785.4	785.9	786.4	786.9	787.0	786.9	786.7	786.5	786.3	785.9	785.4
135°	839.2	840.6	841.9	843.3	844.0	844.0	844.0	844.0	844.0	843.5	843.1
137.5°	896.2	896.9	897.5	898.1	898.6	899.0	899.4	899.7	900.1	899.5	898.9
140°	934.5	934.9	935.4	935.8	936.0	936.0	936.0	936.0	936.0	935.8	935.6
142.5°	969.7	970.2	970.6	971.1	971.2	971.0	970.8	970.7	970.5	970.4	970.4
145°	1018.9	1019.8	1020.7	1021.6	1022.1	1022.4	1022.6	1022.8	1023.0	1022.8	1022.6
147.5°	1067.3	1068.4	1069.4	1070.6	1071.1	1070.9	1070.7	1070.5	1070.3	1070.2	1070.0
150°	1096.6	1097.5	1098.4	1099.3	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7
152.5°	1124.1	1124.6	1125.1	1125.7	1126.0	1126.2	1126.4	1126.6	1126.8	1127.3	1127.8
155°	1166.3	1166.3	1166.3	1166.3	1166.2	1165.9	1165.7	1165.5	1165.3	1166.2	1167.1
157.5°	1201.8	1201.4	1201.0	1200.6	1200.4	1200.3	1200.3	1200.2	1200.2	1200.9	1201.6
160°	1223.4	1223.0	1222.8	1222.6	1222.4	1222.1	1221.9	1221.7	1221.5	1222.1	1222.8
162.5°	1242.6	1242.0	1241.4	1240.8	1240.4	1240.2	1240.0	1239.7	1239.5	1240.7	1241.9
165°	1268.9	1268.2	1267.6	1266.9	1266.3	1265.9	1265.4	1265.0	1264.5	1265.9	1267.2
167.5°	1288.9	1288.0	1287.0	1286.1	1285.6	1285.7	1285.7	1285.7	1285.8	1287.1	1288.5
170°	1300.2	1299.0	1297.9	1296.8	1296.3	1296.6	1296.8	1297.0	1297.2	1298.6	1299.9
172.5°	1308.5	1307.6	1306.7	1305.7	1305.3	1305.3	1305.4	1305.4	1305.4	1307.0	1308.5
175°	1319.6	1318.5	1317.4	1316.2	1315.6	1315.2	1315.0	1314.8	1314.6	1316.2	1317.8
177.5°	1323.5	1322.6	1321.7	1320.8	1320.3	1320.3	1320.3	1320.3	1320.3	1321.6	1322.9
180°	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8



TEST NUMBER: P333024-840

CATALOG NUMBER: S124RDIW-S350D1050U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	593.2	593.2	593.2	593.2	593.2	593.2	593.2
2.5°	622.3	623.0	623.6	625.5	625.7	627.4	625.7
5°	673.8	677.1	682.4	687.6	688.1	691.5	685.5
7.5°	731.4	739.2	744.1	752.6	755.9	758.0	754.6
10°	771.2	778.4	791.1	797.3	803.5	804.5	801.6
12.5°	809.7	821.0	831.0	842.8	842.5	850.9	847.9
15°	860.9	872.6	886.5	899.6	904.3	904.3	908.2
17.5°	897.4	918.9	933.2	943.5	954.8	956.7	955.4
20°	922.1	945.2	960.6	973.9	981.6	983.7	983.7
22.5°	940.4	960.2	975.1	987.1	993.4	995.9	995.2
25°	953.1	970.1	979.2	982.8	984.4	984.0	979.5
27.5°	935.7	934.9	929.3	918.3	910.0	904.9	899.2
30°	902.5	890.0	875.7	859.9	839.6	824.0	819.3
32.5°	852.9	825.1	800.7	774.5	752.7	737.1	730.5
35°	757.2	713.0	676.8	645.3	622.4	608.0	603.2
37.5°	643.5	600.7	556.0	525.4	506.3	491.9	486.6
40°	571.2	524.6	485.6	457.0	437.4	423.2	423.0
42.5°	505.2	460.7	424.0	403.4	382.3	372.9	372.9
45°	413.7	378.1	347.0	330.7	318.1	310.4	308.3
47.5°	342.5	313.1	292.4	279.4	269.1	264.3	261.1
50°	302.6	276.8	260.2	249.0	243.3	237.1	236.6
52.5°	269.3	248.4	235.6	226.5	219.2	215.5	215.6
55°	226.3	209.8	200.8	193.8	188.1	185.2	184.0
57.5°	190.7	178.3	171.7	165.3	162.9	160.7	160.1
60°	168.5	160.2	153.9	148.9	145.3	144.6	144.3
62.5°	150.2	141.4	137.1	133.2	130.6	129.5	129.1
65°	123.8	117.3	113.5	110.4	109.5	107.8	107.6
67.5°	99.8	95.9	93.4	91.3	90.0	89.9	89.9
70°	85.1	82.9	80.8	79.6	78.9	78.4	78.4
72.5°	72.5	70.9	69.1	68.5	68.4	67.9	67.7
75°	55.2	53.5	53.8	52.6	51.6	50.4	49.7
77.5°	39.2	38.0	37.7	37.6	36.8	36.7	37.0
80°	30.4	29.2	28.9	29.2	28.9	28.2	28.2
82.5°	23.1	22.1	21.8	21.7	21.5	21.7	21.3
85°	12.4	11.9	11.9	11.9	12.4	12.2	11.9
87.5°	9.7	9.8	10.2	10.1	10.2	10.1	10.3
90°	26.6	28.0	28.9	29.3	29.8	30.2	30.7
92.5°	42.9	43.8	44.3	44.6	44.8	45.1	45.4
95°	79.8	80.5	80.8	80.8	80.8	80.8	80.8
97.5°	125.4	126.2	126.6	126.6	126.6	126.6	126.6
100°	157.8	158.3	158.5	158.5	158.5	158.5	158.5
102.5°	192.8	193.5	193.9	194.0	194.2	194.4	194.6
105°	245.5	246.2	246.9	247.6	248.2	248.9	249.6
107.5°	302.5	303.2	303.4	303.4	303.4	303.3	303.3
110°	339.3	338.8	339.0	339.6	340.3	341.0	341.7



TEST NUMBER: P333024-840

CATALOG NUMBER: S124RDIW-S350D1050U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	380.5	380.4	380.4	380.6	380.7	380.8	381.0
115°	443.3	443.1	442.8	442.6	442.4	442.2	441.9
117.5°	503.2	502.5	501.9	501.4	501.0	500.5	500.1
120°	543.9	542.8	542.4	542.9	543.3	543.8	544.2
122.5°	585.9	585.1	584.3	583.5	582.7	581.9	581.1
125°	647.2	646.8	646.3	645.9	645.4	645.0	644.5
127.5°	705.6	705.1	704.7	704.3	704.0	703.6	703.3
130°	746.5	746.0	745.4	744.5	743.6	742.7	741.7
132.5°	785.0	784.5	784.1	783.8	783.4	782.9	782.6
135°	842.6	842.2	841.6	840.9	840.2	839.6	838.9
137.5°	898.3	897.7	897.5	897.6	897.8	897.9	898.0
140°	935.4	935.1	934.9	934.7	934.5	934.2	934.0
142.5°	970.3	970.3	970.2	970.2	970.2	970.1	970.1
145°	1022.4	1022.1	1021.7	1021.0	1020.3	1019.7	1019.0
147.5°	1069.8	1069.5	1069.3	1069.1	1068.9	1068.6	1068.4
150°	1099.7	1099.7	1099.6	1099.4	1099.2	1098.9	1098.7
152.5°	1128.4	1128.9	1128.9	1128.3	1127.7	1127.1	1126.6
155°	1168.0	1168.9	1168.9	1168.0	1167.1	1166.2	1165.3
157.5°	1202.2	1203.0	1203.0	1202.1	1201.3	1200.6	1199.8
160°	1223.6	1224.3	1224.0	1222.8	1221.7	1220.6	1219.4
162.5°	1243.1	1244.5	1244.5	1243.3	1242.2	1241.0	1239.9
165°	1268.6	1269.9	1270.1	1269.2	1268.3	1267.4	1266.5
167.5°	1289.8	1291.2	1291.2	1289.8	1288.4	1287.0	1285.6
170°	1301.3	1302.6	1302.5	1301.0	1299.4	1297.8	1296.2
172.5°	1310.0	1311.6	1311.5	1310.0	1308.4	1306.8	1305.1
175°	1319.4	1321.0	1321.0	1319.4	1317.8	1316.2	1314.6
177.5°	1324.1	1325.4	1325.3	1323.8	1322.4	1321.0	1319.5
180°	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8

(END OF REPORT)