

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: P332419-830

Luminaire Tested: **S123RDIW-S560D1030U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332419-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S560D1030U830-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1030 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5471.3 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

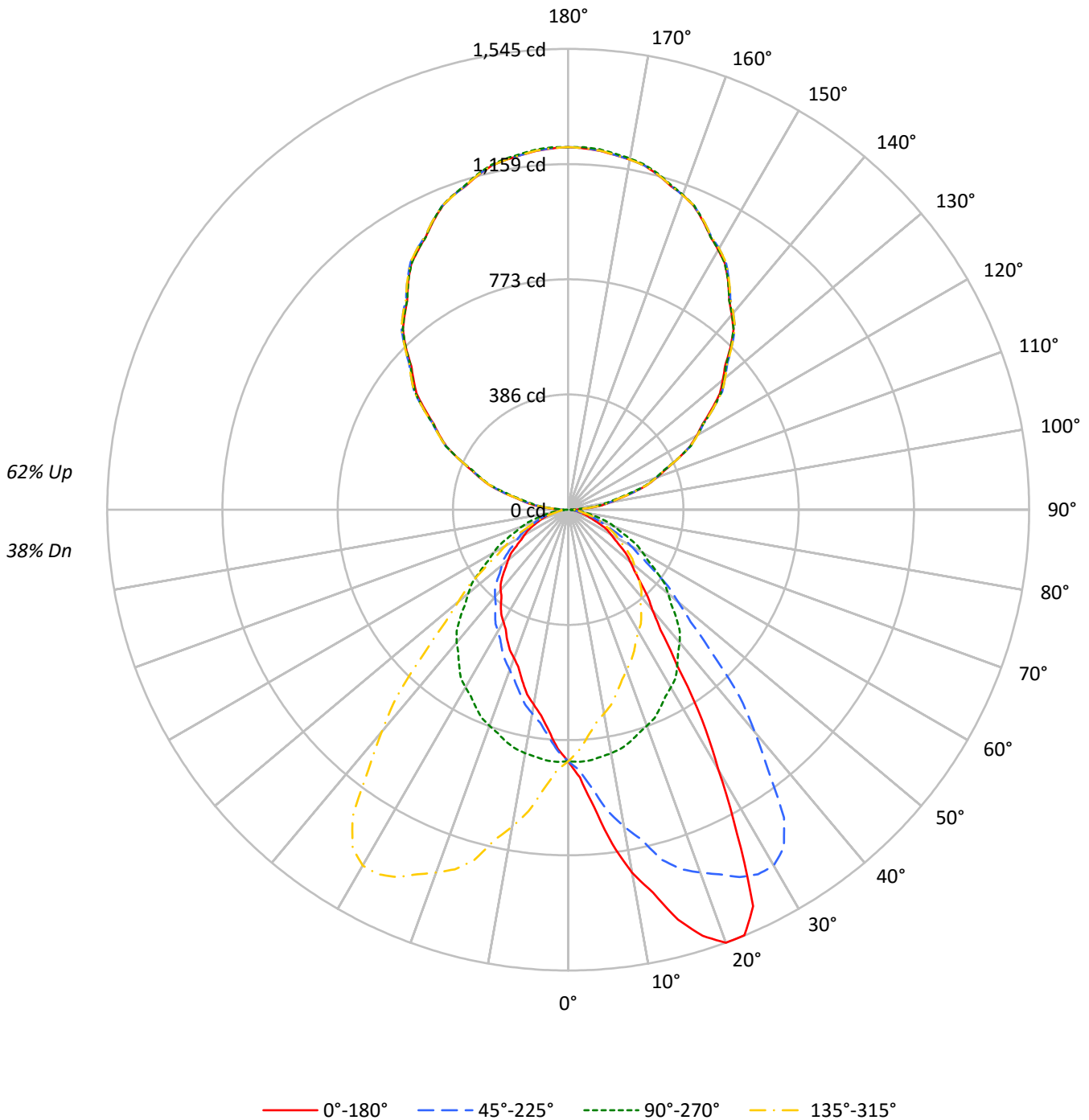
Input Watts (W): 45.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	38
1	96	92	88	85	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	75	70	79	73	68	64	60	57	54	48	45	43	37	35	34	29
3	80	71	64	59	72	65	59	54	53	49	46	43	40	37	33	31	29	25
4	73	63	56	50	66	58	51	46	48	43	39	38	35	32	30	27	26	22
5	67	56	49	43	61	52	45	40	43	38	34	34	31	28	27	24	22	19
6	62	51	43	37	56	46	40	35	39	34	30	31	28	25	24	22	20	17
7	58	46	38	33	52	42	35	31	35	30	26	29	25	22	22	20	18	15
8	53	42	34	29	49	38	32	27	32	27	23	26	22	20	21	18	16	14
9	50	38	31	26	45	35	29	24	29	24	21	24	20	18	19	16	15	12
10	46	35	28	23	42	32	26	22	27	22	19	22	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9077	9077	9077	9077
5°	10821	9116	8028	9116
10°	13511	9063	7252	9063
15°	15858	8971	6614	8971
20°	17699	8833	6071	8833
25°	17416	8687	5738	8687
30°	12519	8552	5393	8552
35°	8359	8377	5171	8377
40°	6159	8168	4942	8168
45°	5165	7798	4714	7798
50°	4558	7316	4401	7316
55°	3997	6762	3969	6762
60°	3559	6232	3638	6232
65°	3125	5662	3385	5662
70°	2452	5158	3091	5158
75°	2163	4504	2824	4504
80°	1878	3825	2777	3825
85°	1519	3075	2939	3075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	1.5
10°-20°	259.1	4.7
20°-30°	407.0	7.4
30°-40°	424.7	7.8
40°-50°	363.4	6.6
50°-60°	277.0	5.1
60°-70°	177.6	3.2
70°-80°	85.4	1.6
80°-90°	26.2	0.5
90°-100°	79.2	1.4
100°-110°	237.0	4.3
110°-120°	403.1	7.4
120°-130°	530.3	9.7
130°-140°	596.0	10.9
140°-150°	585.8	10.7
150°-160°	493.2	9.0
160°-170°	328.3	6.0
170°-180°	115.0	2.1
0°-30°	749.1	13.7
0°-40°	1173.7	21.5
0°-60°	1814.2	33.2
0°-90°	2103.3	38.4
90°-120°	719.4	13.1
90°-150°	2431.5	44.4
90°-180°	3368.0	61.6
0°-180°	5471.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	843	843	843	843	843	
5°	1002	844	743	844	1002	103
15°	1423	805	594	805	1423	404
25°	1466	731	483	731	1466	630
35°	636	638	394	638	636	417
45°	339	512	310	512	339	267
55°	213	360	212	360	213	193
65°	123	222	133	222	123	121
75°	52	108	68	108	52	56
85°	12	25	24	25	12	15
90°	29	1	29	1	29	14
95°	74	56	74	56	74	76
105°	227	215	227	215	227	241
115°	407	406	407	406	407	403
125°	587	594	587	594	587	525
135°	770	771	770	771	770	592
145°	935	935	935	935	935	584
155°	1069	1070	1069	1070	1069	492
165°	1162	1166	1162	1166	1162	328
175°	1208	1213	1208	1213	1208	115
180°	1216	1216	1216	1216	1216	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	898.1	899.4	895.6	895.0	890.7	889.6	889.6	883.4	879.7	874.8	871.9
5°	1001.5	1007.2	1004.4	997.9	987.0	984.5	977.6	966.8	954.5	939.3	932.2
7.5°	1130.4	1138.3	1135.2	1125.2	1113.9	1104.7	1085.3	1067.3	1042.2	1020.1	1001.2
10°	1236.1	1227.8	1221.3	1211.5	1201.1	1184.1	1163.9	1136.1	1104.0	1078.7	1050.6
12.5°	1315.2	1313.9	1305.6	1295.6	1280.8	1264.7	1239.8	1206.0	1168.7	1132.1	1099.9
15°	1423.1	1425.3	1419.8	1409.4	1388.5	1359.9	1322.4	1308.3	1254.9	1215.1	1175.4
17.5°	1497.8	1497.3	1496.6	1482.1	1460.8	1440.4	1405.6	1368.6	1320.2	1264.2	1210.8
20°	1545.1	1541.5	1542.3	1526.0	1510.1	1486.7	1452.7	1398.9	1359.2	1294.6	1239.3
22.5°	1544.0	1543.2	1546.0	1540.4	1528.9	1510.9	1484.2	1438.8	1388.1	1322.9	1260.7
25°	1466.4	1463.6	1480.5	1485.2	1503.6	1506.8	1498.9	1474.0	1426.0	1358.9	1282.0
27.5°	1227.3	1225.7	1257.2	1296.6	1346.6	1385.4	1423.0	1441.1	1426.0	1377.9	1300.9
30°	1007.2	1041.1	1057.1	1114.1	1177.6	1253.4	1319.8	1383.0	1398.5	1377.6	1314.5
32.5°	836.2	865.8	879.1	928.1	987.3	1076.1	1175.7	1265.2	1328.4	1344.4	1306.4
35°	636.1	636.5	666.8	688.4	743.3	834.6	931.4	1051.2	1170.4	1260.7	1270.1
37.5°	507.6	509.3	527.7	549.3	590.5	638.8	724.0	823.6	961.2	1099.8	1181.0
40°	438.3	441.5	455.2	476.5	506.1	542.6	609.1	702.9	817.7	971.9	1097.9
42.5°	393.8	399.1	406.1	422.5	440.8	475.0	528.8	601.2	705.6	851.4	996.7
45°	339.3	342.2	347.6	355.2	371.8	395.7	431.8	480.5	567.1	684.5	830.0
47.5°	299.4	297.8	303.5	309.7	320.7	337.0	361.2	401.0	462.8	556.9	680.3
50°	272.2	271.8	275.8	280.5	291.0	302.9	322.7	352.7	401.8	479.8	592.8
52.5°	246.8	248.2	251.0	256.8	264.4	274.0	291.8	313.4	355.6	422.9	517.1
55°	213.0	214.1	218.0	221.3	226.7	236.5	247.7	265.7	294.5	341.5	419.1
57.5°	184.4	183.9	187.8	188.5	194.6	202.6	211.2	225.3	246.2	281.1	333.4
60°	165.3	164.3	167.5	170.0	173.2	179.7	187.0	200.8	217.4	243.0	287.8
62.5°	148.0	147.5	149.9	152.4	155.0	161.0	167.1	177.6	190.8	212.4	247.9
65°	122.7	123.9	124.9	126.0	127.4	131.0	136.9	144.0	153.1	168.2	193.9
67.5°	96.4	97.6	97.9	100.1	103.2	105.5	109.1	115.5	121.8	134.5	149.1
70°	77.9	77.6	77.9	79.1	83.0	87.0	91.7	96.4	100.4	109.4	121.7
72.5°	67.0	66.4	67.3	67.5	69.5	70.5	73.5	77.9	83.0	89.2	98.0
75°	52.0	52.0	52.0	52.0	53.4	54.2	55.2	56.4	58.2	61.0	67.5
77.5°	38.5	38.5	39.0	39.3	39.7	40.1	40.7	41.8	42.4	44.0	46.8
80°	30.3	30.7	30.3	30.7	30.7	31.4	31.8	32.9	33.2	35.1	36.1
82.5°	22.8	22.6	22.8	23.2	23.2	23.9	23.9	24.8	24.9	25.7	26.9
85°	12.3	11.6	12.3	11.9	12.6	11.9	12.3	13.0	13.0	13.4	14.8
87.5°	8.6	9.1	8.5	8.7	8.6	8.8	8.6	8.4	8.8	8.3	8.1
90°	28.7	28.2	27.8	27.3	27.0	26.3	25.4	24.6	23.8	22.9	20.2
92.5°	38.5	38.8	39.1	39.3	39.6	39.4	38.7	38.0	37.3	36.7	35.1
95°	74.5	74.5	74.5	74.5	74.5	74.1	73.2	72.4	71.5	70.7	69.0
97.5°	114.6	114.7	114.8	114.8	114.9	114.5	113.5	112.5	111.6	110.6	109.3
100°	145.2	144.7	144.3	143.8	143.5	142.9	142.3	141.7	141.0	140.3	139.3
102.5°	176.4	176.5	176.6	176.7	176.8	176.5	175.9	175.2	174.7	174.0	172.6
105°	227.2	226.9	226.4	226.0	225.6	225.4	225.4	225.4	225.4	225.4	223.5
107.5°	280.1	280.4	280.7	281.0	281.2	281.0	280.3	279.7	278.9	278.2	277.5
110°	316.0	316.5	316.9	317.4	317.7	317.5	316.7	315.8	315.0	314.1	313.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	354.3	354.4	354.4	354.5	354.6	354.1	353.1	352.1	351.1	350.1	350.0
115°	406.8	407.0	407.2	407.5	407.6	407.6	407.5	407.2	407.0	406.8	407.2
117.5°	460.1	460.6	461.3	461.8	462.4	462.8	462.8	462.9	462.9	463.0	463.4
120°	497.5	497.9	498.3	498.8	499.2	499.5	499.7	499.9	500.1	500.4	501.4
122.5°	533.4	534.0	534.6	535.2	535.7	536.4	536.9	537.4	538.0	538.6	539.1
125°	587.3	588.1	589.0	589.8	590.7	591.5	592.4	593.2	594.1	594.9	595.3
127.5°	640.9	641.9	642.9	643.9	644.8	645.9	647.1	648.3	649.5	650.6	651.1
130°	676.1	677.6	679.0	680.5	682.0	683.2	684.0	684.9	685.7	686.5	687.2
132.5°	712.8	713.9	715.0	716.1	717.4	718.4	719.4	720.5	721.4	722.5	722.9
135°	769.7	770.1	770.5	770.9	771.4	771.9	772.8	773.6	774.5	775.3	775.6
137.5°	819.9	820.7	821.5	822.3	823.1	824.0	824.8	825.8	826.6	827.6	827.0
140°	852.7	854.2	855.7	857.1	858.7	859.5	859.7	860.0	860.2	860.4	860.2
142.5°	886.4	887.5	888.6	889.8	890.9	891.6	891.8	892.0	892.2	892.5	892.1
145°	934.8	935.7	936.5	937.4	938.2	938.8	939.0	939.2	939.4	939.6	939.0
147.5°	978.0	979.3	980.5	981.8	983.1	983.7	983.7	983.7	983.7	983.7	983.2
150°	1005.5	1006.8	1008.0	1009.4	1010.6	1011.3	1011.3	1011.3	1011.3	1011.3	1010.8
152.5°	1032.3	1033.3	1034.4	1035.6	1036.7	1037.1	1036.7	1036.3	1036.0	1035.7	1035.5
155°	1068.6	1070.1	1071.5	1073.0	1074.5	1074.8	1073.9	1073.1	1072.2	1071.4	1071.2
157.5°	1101.5	1102.8	1104.0	1105.1	1106.4	1106.5	1105.6	1104.7	1103.8	1102.9	1102.8
160°	1122.9	1123.8	1124.6	1125.5	1126.3	1126.2	1125.2	1124.2	1123.0	1122.0	1122.0
162.5°	1139.0	1140.4	1141.7	1143.1	1144.4	1144.6	1143.5	1142.5	1141.4	1140.4	1140.2
165°	1162.2	1163.6	1165.1	1166.6	1168.1	1168.2	1166.9	1165.6	1164.3	1163.1	1163.1
167.5°	1181.8	1183.1	1184.4	1185.7	1187.0	1187.0	1185.7	1184.4	1183.1	1181.8	1181.7
170°	1191.8	1193.2	1194.7	1196.2	1197.7	1197.7	1196.2	1194.7	1193.2	1191.8	1191.8
172.5°	1199.4	1200.8	1202.3	1203.8	1205.3	1205.4	1204.1	1202.8	1201.5	1200.1	1200.1
175°	1208.0	1209.5	1210.9	1212.4	1213.9	1214.0	1212.8	1211.4	1210.2	1208.9	1208.9
177.5°	1212.6	1213.7	1214.9	1216.1	1217.3	1217.4	1216.4	1215.3	1214.3	1213.3	1213.3
180°	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	870.7	869.9	865.8	861.2	855.2	851.1	847.9	846.2	841.0	834.6	830.3
5°	924.5	913.7	902.2	888.1	875.1	861.8	853.5	843.7	831.8	818.4	809.0
7.5°	982.1	960.9	938.0	914.5	891.1	870.2	851.7	835.8	816.9	797.8	784.3
10°	1026.3	995.3	963.2	930.3	900.3	872.2	850.6	829.2	806.5	784.5	767.9
12.5°	1066.5	1025.7	988.6	948.2	909.9	876.3	845.1	820.0	792.7	769.2	750.3
15°	1117.3	1075.4	1030.7	969.3	918.4	875.8	837.9	805.0	771.8	743.0	724.5
17.5°	1164.8	1101.8	1041.7	990.4	924.4	871.1	824.8	785.5	749.1	718.5	695.8
20°	1184.5	1123.5	1058.1	992.8	927.8	868.3	814.5	771.1	733.2	698.5	677.6
22.5°	1196.3	1127.2	1058.4	988.2	919.2	857.2	804.1	756.4	715.3	682.4	656.6
25°	1210.1	1127.8	1052.0	982.7	912.3	845.1	781.9	731.4	687.0	652.0	624.5
27.5°	1219.2	1122.4	1032.7	955.7	884.3	817.5	759.6	706.0	660.9	623.9	594.5
30°	1221.0	1118.0	1018.0	934.6	862.0	800.7	739.3	688.1	640.5	601.1	573.6
32.5°	1223.2	1107.4	998.2	909.6	835.3	774.5	718.9	669.9	621.0	582.3	554.3
35°	1213.7	1101.5	967.9	866.1	791.7	732.8	682.7	637.5	589.6	552.0	523.5
37.5°	1172.7	1078.0	936.5	817.1	739.3	684.9	643.9	604.6	560.6	520.1	493.2
40°	1131.4	1054.9	912.3	787.4	706.2	650.2	613.3	581.3	538.7	500.7	471.8
42.5°	1069.9	1023.4	889.2	756.2	668.5	614.6	583.6	553.5	516.1	477.6	450.4
45°	957.1	963.2	841.9	706.5	616.6	562.4	533.2	512.3	479.1	447.3	419.5
47.5°	815.5	872.9	786.4	653.6	561.8	511.0	485.4	467.1	444.8	413.6	388.2
50°	723.1	805.0	741.9	618.0	527.4	476.9	451.7	436.9	417.4	392.8	368.6
52.5°	637.9	725.9	688.2	578.4	490.2	443.9	419.2	407.1	391.6	368.5	346.7
55°	520.2	609.4	600.7	518.8	434.3	392.8	374.0	360.3	349.8	332.5	315.2
57.5°	420.8	505.3	509.8	452.3	385.0	344.0	327.9	317.5	310.7	297.7	281.6
60°	358.2	435.7	450.9	407.6	349.8	313.7	297.8	289.5	284.1	273.6	261.4
62.5°	306.1	372.2	389.4	358.2	316.0	282.2	269.8	261.8	258.2	249.1	238.3
65°	234.3	289.2	305.8	288.4	266.5	239.3	229.2	222.3	219.1	214.1	206.1
67.5°	176.2	216.2	234.4	222.2	214.2	197.1	190.7	187.0	184.1	180.7	174.0
70°	141.5	171.2	189.9	186.6	180.1	171.2	166.5	163.9	161.0	158.2	152.3
72.5°	113.8	134.1	151.7	153.4	148.1	146.3	142.1	141.1	139.3	135.9	132.7
75°	75.5	89.5	101.8	106.5	108.7	110.5	108.7	108.3	107.9	105.1	103.2
77.5°	49.5	57.0	64.8	72.8	76.2	78.6	79.2	80.5	79.6	78.0	77.2
80°	37.9	39.7	45.1	52.0	57.4	59.6	61.0	61.7	61.4	61.0	59.6
82.5°	27.5	29.0	31.6	36.4	40.9	44.6	45.4	45.2	46.1	46.3	45.1
85°	14.8	15.2	15.9	16.6	19.1	23.1	24.2	24.9	25.6	25.6	23.5
87.5°	8.1	7.3	7.3	6.8	7.3	7.1	8.4	9.4	10.2	9.4	9.8
90°	17.4	14.6	11.9	9.4	7.4	5.2	3.1	0.9	3.1	5.2	7.4
92.5°	33.6	32.0	30.3	28.8	27.4	26.0	24.5	23.1	24.5	26.0	27.4
95°	67.3	65.6	63.9	62.3	60.8	59.3	57.8	56.4	57.8	59.3	60.8
97.5°	108.1	106.9	105.7	104.5	103.4	102.3	101.1	100.1	101.1	102.3	103.4
100°	138.3	137.2	136.1	135.0	133.7	132.4	131.1	129.9	131.1	132.4	133.7
102.5°	171.2	169.8	168.3	167.3	166.5	165.8	165.0	164.3	165.0	165.8	166.5
105°	221.5	219.6	217.7	216.6	216.1	215.7	215.3	214.9	215.3	215.7	216.1
107.5°	276.7	276.0	275.2	274.7	274.5	274.2	273.9	273.7	273.9	274.2	274.5
110°	313.3	312.9	312.5	312.1	311.6	311.2	310.8	310.4	310.8	311.2	311.6



TEST NUMBER: P332419-830

CATALOG NUMBER: S123RDIW-S560D1030U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	349.9	349.8	349.7	349.6	349.3	349.0	348.8	348.6	348.8	349.0	349.3
115°	407.6	408.0	408.5	408.4	407.7	407.1	406.4	405.9	406.4	407.1	407.7
117.5°	464.0	464.6	465.1	465.2	464.8	464.4	463.9	463.5	463.9	464.4	464.8
120°	502.5	503.5	504.6	504.5	503.2	502.0	500.7	499.5	500.7	502.0	503.2
122.5°	539.7	540.3	540.7	540.5	539.6	538.8	537.8	536.9	537.8	538.8	539.6
125°	595.8	596.2	596.6	596.5	595.9	595.2	594.6	594.0	594.6	595.2	595.9
127.5°	651.6	652.1	652.5	652.1	650.7	649.4	648.0	646.7	648.0	649.4	650.7
130°	687.9	688.5	689.1	688.6	686.9	685.2	683.5	681.8	683.5	685.2	686.9
132.5°	723.4	723.9	724.3	723.8	722.1	720.3	718.6	716.9	718.6	720.3	722.1
135°	775.8	776.0	776.2	775.7	774.4	773.2	771.8	770.6	771.8	773.2	774.4
137.5°	826.4	825.9	825.3	824.5	823.4	822.4	821.3	820.3	821.3	822.4	823.4
140°	860.0	859.7	859.5	858.8	857.8	856.8	855.7	854.6	855.7	856.8	857.8
142.5°	891.6	891.3	890.9	890.2	889.1	888.1	887.0	886.0	887.0	888.1	889.1
145°	938.4	937.7	937.1	936.5	936.1	935.7	935.3	934.8	935.3	935.7	936.1
147.5°	982.6	981.9	981.4	980.7	980.0	979.1	978.4	977.6	978.4	979.1	980.0
150°	1010.4	1009.9	1009.6	1009.1	1008.7	1008.2	1007.9	1007.4	1007.9	1008.2	1008.7
152.5°	1035.2	1034.9	1034.6	1034.3	1033.7	1033.0	1032.5	1031.9	1032.5	1033.0	1033.7
155°	1071.0	1070.7	1070.5	1070.4	1070.4	1070.4	1070.4	1070.4	1070.4	1070.4	1070.4
157.5°	1102.6	1102.4	1102.2	1102.3	1102.5	1102.8	1103.1	1103.3	1103.1	1102.8	1102.5
160°	1122.0	1122.0	1122.0	1122.2	1122.7	1123.0	1123.5	1123.9	1123.5	1123.0	1122.7
162.5°	1140.0	1139.8	1139.6	1139.9	1140.5	1141.0	1141.7	1142.3	1141.7	1141.0	1140.5
165°	1163.1	1163.1	1163.1	1163.4	1164.0	1164.7	1165.3	1165.9	1165.3	1164.7	1164.0
167.5°	1181.5	1181.3	1181.1	1181.5	1182.3	1183.2	1184.0	1184.9	1184.0	1183.2	1182.3
170°	1191.8	1191.8	1191.8	1192.1	1193.0	1193.8	1194.7	1195.5	1194.7	1193.8	1193.0
172.5°	1200.1	1200.1	1200.1	1200.5	1201.4	1202.2	1203.1	1203.9	1203.1	1202.2	1201.4
175°	1208.9	1208.9	1208.9	1209.4	1210.2	1211.1	1211.9	1212.8	1211.9	1211.1	1210.2
177.5°	1213.3	1213.3	1213.3	1213.6	1214.3	1215.0	1215.7	1216.4	1215.7	1215.0	1214.3
180°	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6



TEST NUMBER: P332419-830

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	828.9	825.1	822.6	816.7	813.0	809.0	804.9	807.5	807.2	806.9	806.9
5°	801.1	792.8	785.2	775.4	769.3	761.8	755.9	755.3	756.7	751.6	748.8
7.5°	773.5	762.1	751.4	740.6	729.2	720.1	714.4	711.8	708.1	705.0	701.7
10°	754.1	740.8	730.3	717.0	704.7	693.9	687.0	682.3	679.8	677.2	672.6
12.5°	734.2	721.1	707.8	692.7	681.0	668.5	663.4	658.1	653.2	650.4	643.9
15°	705.0	688.1	674.0	658.1	645.2	632.8	625.7	615.2	613.7	610.1	603.6
17.5°	675.8	657.4	638.0	626.2	611.5	598.8	587.8	584.3	573.9	570.0	564.4
20°	652.7	635.7	620.9	605.4	584.1	572.2	563.5	558.8	550.5	545.4	541.9
22.5°	632.8	615.5	598.4	580.3	562.7	549.4	543.0	535.7	531.2	524.1	520.2
25°	604.4	585.6	565.0	545.4	532.8	522.7	512.6	506.1	499.6	496.3	489.2
27.5°	571.3	551.7	532.4	517.6	502.1	492.1	483.0	477.2	469.4	463.9	460.0
30°	553.1	530.0	513.4	500.0	480.1	470.8	463.9	456.7	450.9	445.2	441.1
32.5°	532.0	510.9	495.1	478.6	463.4	453.2	444.2	437.9	433.0	427.5	423.6
35°	498.9	481.3	465.0	448.4	437.2	426.7	416.2	410.9	406.1	401.1	397.5
37.5°	469.0	452.5	437.1	421.3	407.5	398.9	390.5	386.3	380.0	376.6	373.0
40°	450.5	434.3	417.7	402.6	388.0	381.6	374.0	367.9	362.1	359.6	355.6
42.5°	430.4	414.1	400.1	383.7	371.9	363.1	356.1	349.4	345.1	341.4	339.1
45°	400.4	385.9	372.2	356.0	344.8	337.1	329.2	323.1	319.1	316.6	312.6
47.5°	371.3	356.8	342.9	328.8	317.9	309.2	301.3	297.0	291.8	288.7	286.0
50°	350.2	337.1	322.3	309.3	298.6	289.9	283.4	278.0	273.2	269.3	267.5
52.5°	330.8	317.0	304.2	292.1	280.7	270.8	264.9	259.2	255.7	251.1	249.0
55°	298.9	285.6	274.8	262.8	251.7	243.4	236.1	231.0	227.4	222.3	219.5
57.5°	268.9	256.9	244.0	233.8	222.2	215.2	209.2	202.3	197.9	194.0	191.1
60°	248.7	235.0	223.9	214.1	204.0	194.9	189.5	184.1	179.5	175.4	173.0
62.5°	227.6	215.7	205.1	194.4	185.2	177.3	171.1	166.5	162.4	159.9	157.3
65°	195.3	186.0	175.1	166.5	157.8	152.0	146.9	143.0	140.1	138.3	136.1
67.5°	165.6	156.5	147.0	138.5	132.7	128.3	125.0	121.6	120.2	117.8	116.4
70°	146.2	136.9	128.6	122.1	116.2	113.0	110.8	108.3	106.9	104.0	102.5
72.5°	125.2	118.4	112.4	107.0	102.4	99.4	96.7	93.6	91.2	88.1	86.6
75°	98.6	92.5	87.8	84.1	81.2	77.3	73.3	70.0	69.0	67.9	67.5
77.5°	73.0	69.1	65.7	62.7	59.1	56.2	55.3	54.6	54.4	53.8	53.8
80°	57.4	53.8	51.3	47.7	45.5	45.5	45.5	44.8	45.1	45.1	45.1
82.5°	42.7	39.3	38.0	36.7	36.3	36.6	36.6	36.7	36.5	37.0	36.8
85°	22.1	22.3	23.1	22.7	23.1	23.1	23.8	23.5	23.8	23.1	23.8
87.5°	10.0	11.3	12.2	13.0	13.9	14.1	14.6	14.7	15.2	15.4	15.5
90°	9.4	11.9	14.6	17.4	20.2	22.9	23.8	24.6	25.4	26.3	27.0
92.5°	28.8	30.3	32.0	33.6	35.1	36.7	37.3	38.0	38.7	39.4	39.6
95°	62.3	63.9	65.6	67.3	69.0	70.7	71.5	72.4	73.2	74.1	74.5
97.5°	104.5	105.7	106.9	108.1	109.3	110.6	111.6	112.5	113.5	114.5	114.9
100°	135.0	136.1	137.2	138.3	139.3	140.3	141.0	141.7	142.3	142.9	143.5
102.5°	167.3	168.3	169.8	171.2	172.6	174.0	174.7	175.2	175.9	176.5	176.8
105°	216.6	217.7	219.6	221.5	223.5	225.4	225.4	225.4	225.4	225.4	225.6
107.5°	274.7	275.2	276.0	276.7	277.5	278.2	278.9	279.7	280.3	281.0	281.2
110°	312.1	312.5	312.9	313.3	313.8	314.1	315.0	315.8	316.7	317.5	317.7



TEST NUMBER: P332419-830

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	349.6	349.7	349.8	349.9	350.0	350.1	351.1	352.1	353.1	354.1	354.6
115°	408.4	408.5	408.0	407.6	407.2	406.8	407.0	407.2	407.5	407.6	407.6
117.5°	465.2	465.1	464.6	464.0	463.4	463.0	462.9	462.9	462.8	462.8	462.4
120°	504.5	504.6	503.5	502.5	501.4	500.4	500.1	499.9	499.7	499.5	499.2
122.5°	540.5	540.7	540.3	539.7	539.1	538.6	538.0	537.4	536.9	536.4	535.7
125°	596.5	596.6	596.2	595.8	595.3	594.9	594.1	593.2	592.4	591.5	590.7
127.5°	652.1	652.5	652.1	651.6	651.1	650.6	649.5	648.3	647.1	645.9	644.8
130°	688.6	689.1	688.5	687.9	687.2	686.5	685.7	684.9	684.0	683.2	682.0
132.5°	723.8	724.3	723.9	723.4	722.9	722.5	721.4	720.5	719.4	718.4	717.4
135°	775.7	776.2	776.0	775.8	775.6	775.3	774.5	773.6	772.8	771.9	771.4
137.5°	824.5	825.3	825.9	826.4	827.0	827.6	826.6	825.8	824.8	824.0	823.1
140°	858.8	859.5	859.7	860.0	860.2	860.4	860.2	860.0	859.7	859.5	858.7
142.5°	890.2	890.9	891.3	891.6	892.1	892.5	892.2	892.0	891.8	891.6	890.9
145°	936.5	937.1	937.7	938.4	939.0	939.6	939.4	939.2	939.0	938.8	938.2
147.5°	980.7	981.4	981.9	982.6	983.2	983.7	983.7	983.7	983.7	983.7	983.1
150°	1009.1	1009.6	1009.9	1010.4	1010.8	1011.3	1011.3	1011.3	1011.3	1011.3	1010.6
152.5°	1034.3	1034.6	1034.9	1035.2	1035.5	1035.7	1036.0	1036.3	1036.7	1037.1	1036.7
155°	1070.4	1070.5	1070.7	1071.0	1071.2	1071.4	1072.2	1073.1	1073.9	1074.8	1074.5
157.5°	1102.3	1102.2	1102.4	1102.6	1102.8	1102.9	1103.8	1104.7	1105.6	1106.5	1106.4
160°	1122.2	1122.0	1122.0	1122.0	1122.0	1122.0	1123.0	1124.2	1125.2	1126.2	1126.3
162.5°	1139.9	1139.6	1139.8	1140.0	1140.2	1140.4	1141.4	1142.5	1143.5	1144.6	1144.4
165°	1163.4	1163.1	1163.1	1163.1	1163.1	1163.1	1164.3	1165.6	1166.9	1168.2	1168.1
167.5°	1181.5	1181.1	1181.3	1181.5	1181.7	1181.8	1183.1	1184.4	1185.7	1187.0	1187.0
170°	1192.1	1191.8	1191.8	1191.8	1191.8	1191.8	1193.2	1194.7	1196.2	1197.7	1197.7
172.5°	1200.5	1200.1	1200.1	1200.1	1200.1	1200.1	1201.5	1202.8	1204.1	1205.4	1205.3
175°	1209.4	1208.9	1208.9	1208.9	1208.9	1208.9	1210.2	1211.4	1212.8	1214.0	1213.9
177.5°	1213.6	1213.3	1213.3	1213.3	1213.3	1213.3	1214.3	1215.3	1216.4	1217.4	1217.3
180°	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6



TEST NUMBER: P332419-830

CATALOG NUMBER: S123RDIW-S560D1030U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	803.4	803.1	803.4	802.3	803.4	803.1	803.4	806.9	806.9	807.2	807.5
5°	747.6	747.2	746.2	743.0	746.2	747.2	747.6	748.8	751.6	756.7	755.3
7.5°	698.9	698.4	695.2	695.3	695.2	698.4	698.9	701.7	705.0	708.1	711.8
10°	670.1	670.4	666.1	663.5	666.1	670.4	670.1	672.6	677.2	679.8	682.3
12.5°	642.1	640.4	636.9	634.0	636.9	640.4	642.1	643.9	650.4	653.2	658.1
15°	605.0	601.4	592.8	593.5	592.8	601.4	605.0	603.6	610.1	613.7	615.2
17.5°	561.5	558.8	558.7	553.6	558.7	558.8	561.5	564.4	570.0	573.9	584.3
20°	536.1	534.3	535.0	530.0	535.0	534.3	536.1	541.9	545.4	550.5	558.8
22.5°	516.1	514.3	511.3	509.7	511.3	514.3	516.1	520.2	524.1	531.2	535.7
25°	487.0	484.1	481.3	483.1	481.3	484.1	487.0	489.2	496.3	499.6	506.1
27.5°	457.8	455.6	452.8	452.4	452.8	455.6	457.8	460.0	463.9	469.4	477.2
30°	439.3	437.2	435.7	433.9	435.7	437.2	439.3	441.1	445.2	450.9	456.7
32.5°	420.6	420.2	417.5	417.2	417.5	420.2	420.6	423.6	427.5	433.0	437.9
35°	396.1	393.9	393.1	393.5	393.1	393.9	396.1	397.5	401.1	406.1	410.9
37.5°	372.7	369.9	368.5	367.2	368.5	369.9	372.7	373.0	376.6	380.0	386.3
40°	356.0	353.1	352.3	351.7	352.3	353.1	356.0	355.6	359.6	362.1	367.9
42.5°	337.1	336.0	335.6	334.3	335.6	336.0	337.1	339.1	341.4	345.1	349.4
45°	311.5	311.2	309.1	309.7	309.1	311.2	311.5	312.6	316.6	319.1	323.1
47.5°	284.6	283.0	281.4	282.5	281.4	283.0	284.6	286.0	288.7	291.8	297.0
50°	266.1	265.3	262.1	262.8	262.1	265.3	266.1	267.5	269.3	273.2	278.0
52.5°	247.6	244.9	243.6	243.2	243.6	244.9	247.6	249.0	251.1	255.7	259.2
55°	217.0	213.7	212.3	211.5	212.3	213.7	217.0	219.5	222.3	227.4	231.0
57.5°	186.9	186.1	184.9	185.7	184.9	186.1	186.9	191.1	194.0	197.9	202.3
60°	169.3	169.3	169.3	169.0	169.3	169.3	169.3	173.0	175.4	179.5	184.1
62.5°	155.7	154.9	154.6	155.0	154.6	154.9	155.7	157.3	159.9	162.4	166.5
65°	135.0	134.7	133.2	132.9	133.2	134.7	135.0	136.1	138.3	140.1	143.0
67.5°	115.5	114.1	113.8	113.2	113.8	114.1	115.5	116.4	117.8	120.2	121.6
70°	100.8	100.0	97.8	98.2	97.8	100.0	100.8	102.5	104.0	106.9	108.3
72.5°	84.8	84.1	83.7	83.1	83.7	84.1	84.8	86.6	88.1	91.2	93.6
75°	67.1	66.8	66.4	67.9	66.4	66.8	67.1	67.5	67.9	69.0	70.0
77.5°	53.8	53.8	54.0	53.4	54.0	53.8	53.8	53.8	53.8	54.4	54.6
80°	45.1	45.1	44.8	44.8	44.8	45.1	45.1	45.1	45.1	45.1	44.8
82.5°	36.2	36.5	36.7	36.1	36.7	36.5	36.2	36.8	37.0	36.5	36.7
85°	23.8	23.5	24.2	23.8	24.2	23.5	23.8	23.8	23.1	23.8	23.5
87.5°	16.1	15.6	15.7	16.1	15.7	15.6	16.1	15.5	15.4	15.2	14.7
90°	27.3	27.8	28.2	28.7	28.2	27.8	27.3	27.0	26.3	25.4	24.6
92.5°	39.3	39.1	38.8	38.5	38.8	39.1	39.3	39.6	39.4	38.7	38.0
95°	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.1	73.2	72.4
97.5°	114.8	114.8	114.7	114.6	114.7	114.8	114.8	114.9	114.5	113.5	112.5
100°	143.8	144.3	144.7	145.2	144.7	144.3	143.8	143.5	142.9	142.3	141.7
102.5°	176.7	176.6	176.5	176.4	176.5	176.6	176.7	176.8	176.5	175.9	175.2
105°	226.0	226.4	226.9	227.2	226.9	226.4	226.0	225.6	225.4	225.4	225.4
107.5°	281.0	280.7	280.4	280.1	280.4	280.7	281.0	281.2	281.0	280.3	279.7
110°	317.4	316.9	316.5	316.0	316.5	316.9	317.4	317.7	317.5	316.7	315.8



TEST NUMBER: P332419-830

CATALOG NUMBER: S123RDIW-S560D1030U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	354.5	354.4	354.4	354.3	354.4	354.4	354.5	354.6	354.1	353.1	352.1
115°	407.5	407.2	407.0	406.8	407.0	407.2	407.5	407.6	407.6	407.5	407.2
117.5°	461.8	461.3	460.6	460.1	460.6	461.3	461.8	462.4	462.8	462.8	462.9
120°	498.8	498.3	497.9	497.5	497.9	498.3	498.8	499.2	499.5	499.7	499.9
122.5°	535.2	534.6	534.0	533.4	534.0	534.6	535.2	535.7	536.4	536.9	537.4
125°	589.8	589.0	588.1	587.3	588.1	589.0	589.8	590.7	591.5	592.4	593.2
127.5°	643.9	642.9	641.9	640.9	641.9	642.9	643.9	644.8	645.9	647.1	648.3
130°	680.5	679.0	677.6	676.1	677.6	679.0	680.5	682.0	683.2	684.0	684.9
132.5°	716.1	715.0	713.9	712.8	713.9	715.0	716.1	717.4	718.4	719.4	720.5
135°	770.9	770.5	770.1	769.7	770.1	770.5	770.9	771.4	771.9	772.8	773.6
137.5°	822.3	821.5	820.7	819.9	820.7	821.5	822.3	823.1	824.0	824.8	825.8
140°	857.1	855.7	854.2	852.7	854.2	855.7	857.1	858.7	859.5	859.7	860.0
142.5°	889.8	888.6	887.5	886.4	887.5	888.6	889.8	890.9	891.6	891.8	892.0
145°	937.4	936.5	935.7	934.8	935.7	936.5	937.4	938.2	938.8	939.0	939.2
147.5°	981.8	980.5	979.3	978.0	979.3	980.5	981.8	983.1	983.7	983.7	983.7
150°	1009.4	1008.0	1006.8	1005.5	1006.8	1008.0	1009.4	1010.6	1011.3	1011.3	1011.3
152.5°	1035.6	1034.4	1033.3	1032.3	1033.3	1034.4	1035.6	1036.7	1037.1	1036.7	1036.3
155°	1073.0	1071.5	1070.1	1068.6	1070.1	1071.5	1073.0	1074.5	1074.8	1073.9	1073.1
157.5°	1105.1	1104.0	1102.8	1101.5	1102.8	1104.0	1105.1	1106.4	1106.5	1105.6	1104.7
160°	1125.5	1124.6	1123.8	1122.9	1123.8	1124.6	1125.5	1126.3	1126.2	1125.2	1124.2
162.5°	1143.1	1141.7	1140.4	1139.0	1140.4	1141.7	1143.1	1144.4	1144.6	1143.5	1142.5
165°	1166.6	1165.1	1163.6	1162.2	1163.6	1165.1	1166.6	1168.1	1168.2	1166.9	1165.6
167.5°	1185.7	1184.4	1183.1	1181.8	1183.1	1184.4	1185.7	1187.0	1187.0	1185.7	1184.4
170°	1196.2	1194.7	1193.2	1191.8	1193.2	1194.7	1196.2	1197.7	1197.7	1196.2	1194.7
172.5°	1203.8	1202.3	1200.8	1199.4	1200.8	1202.3	1203.8	1205.3	1205.4	1204.1	1202.8
175°	1212.4	1210.9	1209.5	1208.0	1209.5	1210.9	1212.4	1213.9	1214.0	1212.8	1211.4
177.5°	1216.1	1214.9	1213.7	1212.6	1213.7	1214.9	1216.1	1217.3	1217.4	1216.4	1215.3
180°	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	804.9	809.0	813.0	816.7	822.6	825.1	828.9	830.3	834.6	841.0	846.2
5°	755.9	761.8	769.3	775.4	785.2	792.8	801.1	809.0	818.4	831.8	843.7
7.5°	714.4	720.1	729.2	740.6	751.4	762.1	773.5	784.3	797.8	816.9	835.8
10°	687.0	693.9	704.7	717.0	730.3	740.8	754.1	767.9	784.5	806.5	829.2
12.5°	663.4	668.5	681.0	692.7	707.8	721.1	734.2	750.3	769.2	792.7	820.0
15°	625.7	632.8	645.2	658.1	674.0	688.1	705.0	724.5	743.0	771.8	805.0
17.5°	587.8	598.8	611.5	626.2	638.0	657.4	675.8	695.8	718.5	749.1	785.5
20°	563.5	572.2	584.1	605.4	620.9	635.7	652.7	677.6	698.5	733.2	771.1
22.5°	543.0	549.4	562.7	580.3	598.4	615.5	632.8	656.6	682.4	715.3	756.4
25°	512.6	522.7	532.8	545.4	565.0	585.6	604.4	624.5	652.0	687.0	731.4
27.5°	483.0	492.1	502.1	517.6	532.4	551.7	571.3	594.5	623.9	660.9	706.0
30°	463.9	470.8	480.1	500.0	513.4	530.0	553.1	573.6	601.1	640.5	688.1
32.5°	444.2	453.2	463.4	478.6	495.1	510.9	532.0	554.3	582.3	621.0	669.9
35°	416.2	426.7	437.2	448.4	465.0	481.3	498.9	523.5	552.0	589.6	637.5
37.5°	390.5	398.9	407.5	421.3	437.1	452.5	469.0	493.2	520.1	560.6	604.6
40°	374.0	381.6	388.0	402.6	417.7	434.3	450.5	471.8	500.7	538.7	581.3
42.5°	356.1	363.1	371.9	383.7	400.1	414.1	430.4	450.4	477.6	516.1	553.5
45°	329.2	337.1	344.8	356.0	372.2	385.9	400.4	419.5	447.3	479.1	512.3
47.5°	301.3	309.2	317.9	328.8	342.9	356.8	371.3	388.2	413.6	444.8	467.1
50°	283.4	289.9	298.6	309.3	322.3	337.1	350.2	368.6	392.8	417.4	436.9
52.5°	264.9	270.8	280.7	292.1	304.2	317.0	330.8	346.7	368.5	391.6	407.1
55°	236.1	243.4	251.7	262.8	274.8	285.6	298.9	315.2	332.5	349.8	360.3
57.5°	209.2	215.2	222.2	233.8	244.0	256.9	268.9	281.6	297.7	310.7	317.5
60°	189.5	194.9	204.0	214.1	223.9	235.0	248.7	261.4	273.6	284.1	289.5
62.5°	171.1	177.3	185.2	194.4	205.1	215.7	227.6	238.3	249.1	258.2	261.8
65°	146.9	152.0	157.8	166.5	175.1	186.0	195.3	206.1	214.1	219.1	222.3
67.5°	125.0	128.3	132.7	138.5	147.0	156.5	165.6	174.0	180.7	184.1	187.0
70°	110.8	113.0	116.2	122.1	128.6	136.9	146.2	152.3	158.2	161.0	163.9
72.5°	96.7	99.4	102.4	107.0	112.4	118.4	125.2	132.7	135.9	139.3	141.1
75°	73.3	77.3	81.2	84.1	87.8	92.5	98.6	103.2	105.1	107.9	108.3
77.5°	55.3	56.2	59.1	62.7	65.7	69.1	73.0	77.2	78.0	79.6	80.5
80°	45.5	45.5	45.5	47.7	51.3	53.8	57.4	59.6	61.0	61.4	61.7
82.5°	36.6	36.6	36.3	36.7	38.0	39.3	42.7	45.1	46.3	46.1	45.2
85°	23.8	23.1	23.1	22.7	23.1	22.3	22.1	23.5	25.6	25.6	24.9
87.5°	14.6	14.1	13.9	13.0	12.2	11.3	10.0	9.8	9.4	10.2	9.4
90°	23.8	22.9	20.2	17.4	14.6	11.9	9.4	7.4	5.2	3.1	0.9
92.5°	37.3	36.7	35.1	33.6	32.0	30.3	28.8	27.4	26.0	24.5	23.1
95°	71.5	70.7	69.0	67.3	65.6	63.9	62.3	60.8	59.3	57.8	56.4
97.5°	111.6	110.6	109.3	108.1	106.9	105.7	104.5	103.4	102.3	101.1	100.1
100°	141.0	140.3	139.3	138.3	137.2	136.1	135.0	133.7	132.4	131.1	129.9
102.5°	174.7	174.0	172.6	171.2	169.8	168.3	167.3	166.5	165.8	165.0	164.3
105°	225.4	225.4	223.5	221.5	219.6	217.7	216.6	216.1	215.7	215.3	214.9
107.5°	278.9	278.2	277.5	276.7	276.0	275.2	274.7	274.5	274.2	273.9	273.7
110°	315.0	314.1	313.8	313.3	312.9	312.5	312.1	311.6	311.2	310.8	310.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	351.1	350.1	350.0	349.9	349.8	349.7	349.6	349.3	349.0	348.8	348.6
115°	407.0	406.8	407.2	407.6	408.0	408.5	408.4	407.7	407.1	406.4	405.9
117.5°	462.9	463.0	463.4	464.0	464.6	465.1	465.2	464.8	464.4	463.9	463.5
120°	500.1	500.4	501.4	502.5	503.5	504.6	504.5	503.2	502.0	500.7	499.5
122.5°	538.0	538.6	539.1	539.7	540.3	540.7	540.5	539.6	538.8	537.8	536.9
125°	594.1	594.9	595.3	595.8	596.2	596.6	596.5	595.9	595.2	594.6	594.0
127.5°	649.5	650.6	651.1	651.6	652.1	652.5	652.1	650.7	649.4	648.0	646.7
130°	685.7	686.5	687.2	687.9	688.5	689.1	688.6	686.9	685.2	683.5	681.8
132.5°	721.4	722.5	722.9	723.4	723.9	724.3	723.8	722.1	720.3	718.6	716.9
135°	774.5	775.3	775.6	775.8	776.0	776.2	775.7	774.4	773.2	771.8	770.6
137.5°	826.6	827.6	827.0	826.4	825.9	825.3	824.5	823.4	822.4	821.3	820.3
140°	860.2	860.4	860.2	860.0	859.7	859.5	858.8	857.8	856.8	855.7	854.6
142.5°	892.2	892.5	892.1	891.6	891.3	890.9	890.2	889.1	888.1	887.0	886.0
145°	939.4	939.6	939.0	938.4	937.7	937.1	936.5	936.1	935.7	935.3	934.8
147.5°	983.7	983.7	983.2	982.6	981.9	981.4	980.7	980.0	979.1	978.4	977.6
150°	1011.3	1011.3	1010.8	1010.4	1009.9	1009.6	1009.1	1008.7	1008.2	1007.9	1007.4
152.5°	1036.0	1035.7	1035.5	1035.2	1034.9	1034.6	1034.3	1033.7	1033.0	1032.5	1031.9
155°	1072.2	1071.4	1071.2	1071.0	1070.7	1070.5	1070.4	1070.4	1070.4	1070.4	1070.4
157.5°	1103.8	1102.9	1102.8	1102.6	1102.4	1102.2	1102.3	1102.5	1102.8	1103.1	1103.3
160°	1123.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.2	1122.7	1123.0	1123.5	1123.9
162.5°	1141.4	1140.4	1140.2	1140.0	1139.8	1139.6	1139.9	1140.5	1141.0	1141.7	1142.3
165°	1164.3	1163.1	1163.1	1163.1	1163.1	1163.1	1163.4	1164.0	1164.7	1165.3	1165.9
167.5°	1183.1	1181.8	1181.7	1181.5	1181.3	1181.1	1181.5	1182.3	1183.2	1184.0	1184.9
170°	1193.2	1191.8	1191.8	1191.8	1191.8	1191.8	1192.1	1193.0	1193.8	1194.7	1195.5
172.5°	1201.5	1200.1	1200.1	1200.1	1200.1	1200.1	1200.5	1201.4	1202.2	1203.1	1203.9
175°	1210.2	1208.9	1208.9	1208.9	1208.9	1208.9	1209.4	1210.2	1211.1	1211.9	1212.8
177.5°	1214.3	1213.3	1213.3	1213.3	1213.3	1213.3	1213.6	1214.3	1215.0	1215.7	1216.4
180°	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	847.9	851.1	855.2	861.2	865.8	869.9	870.7	871.9	874.8	879.7	883.4
5°	853.5	861.8	875.1	888.1	902.2	913.7	924.5	932.2	939.3	954.5	966.8
7.5°	851.7	870.2	891.1	914.5	938.0	960.9	982.1	1001.2	1020.1	1042.2	1067.3
10°	850.6	872.2	900.3	930.3	963.2	995.3	1026.3	1050.6	1078.7	1104.0	1136.1
12.5°	845.1	876.3	909.9	948.2	988.6	1025.7	1066.5	1099.9	1132.1	1168.7	1206.0
15°	837.9	875.8	918.4	969.3	1030.7	1075.4	1117.3	1175.4	1215.1	1254.9	1308.3
17.5°	824.8	871.1	924.4	990.4	1041.7	1101.8	1164.8	1210.8	1264.2	1320.2	1368.6
20°	814.5	868.3	927.8	992.8	1058.1	1123.5	1184.5	1239.3	1294.6	1359.2	1398.9
22.5°	804.1	857.2	919.2	988.2	1058.4	1127.2	1196.3	1260.7	1322.9	1388.1	1438.8
25°	781.9	845.1	912.3	982.7	1052.0	1127.8	1210.1	1282.0	1358.9	1426.0	1474.0
27.5°	759.6	817.5	884.3	955.7	1032.7	1122.4	1219.2	1300.9	1377.9	1426.0	1441.1
30°	739.3	800.7	862.0	934.6	1018.0	1118.0	1221.0	1314.5	1377.6	1398.5	1383.0
32.5°	718.9	774.5	835.3	909.6	998.2	1107.4	1223.2	1306.4	1344.4	1328.4	1265.2
35°	682.7	732.8	791.7	866.1	967.9	1101.5	1213.7	1270.1	1260.7	1170.4	1051.2
37.5°	643.9	684.9	739.3	817.1	936.5	1078.0	1172.7	1181.0	1099.8	961.2	823.6
40°	613.3	650.2	706.2	787.4	912.3	1054.9	1131.4	1097.9	971.9	817.7	702.9
42.5°	583.6	614.6	668.5	756.2	889.2	1023.4	1069.9	996.7	851.4	705.6	601.2
45°	533.2	562.4	616.6	706.5	841.9	963.2	957.1	830.0	684.5	567.1	480.5
47.5°	485.4	511.0	561.8	653.6	786.4	872.9	815.5	680.3	556.9	462.8	401.0
50°	451.7	476.9	527.4	618.0	741.9	805.0	723.1	592.8	479.8	401.8	352.7
52.5°	419.2	443.9	490.2	578.4	688.2	725.9	637.9	517.1	422.9	355.6	313.4
55°	374.0	392.8	434.3	518.8	600.7	609.4	520.2	419.1	341.5	294.5	265.7
57.5°	327.9	344.0	385.0	452.3	509.8	505.3	420.8	333.4	281.1	246.2	225.3
60°	297.8	313.7	349.8	407.6	450.9	435.7	358.2	287.8	243.0	217.4	200.8
62.5°	269.8	282.2	316.0	358.2	389.4	372.2	306.1	247.9	212.4	190.8	177.6
65°	229.2	239.3	266.5	288.4	305.8	289.2	234.3	193.9	168.2	153.1	144.0
67.5°	190.7	197.1	214.2	222.2	234.4	216.2	176.2	149.1	134.5	121.8	115.5
70°	166.5	171.2	180.1	186.6	189.9	171.2	141.5	121.7	109.4	100.4	96.4
72.5°	142.1	146.3	148.1	153.4	151.7	134.1	113.8	98.0	89.2	83.0	77.9
75°	108.7	110.5	108.7	106.5	101.8	89.5	75.5	67.5	61.0	58.2	56.4
77.5°	79.2	78.6	76.2	72.8	64.8	57.0	49.5	46.8	44.0	42.4	41.8
80°	61.0	59.6	57.4	52.0	45.1	39.7	37.9	36.1	35.1	33.2	32.9
82.5°	45.4	44.6	40.9	36.4	31.6	29.0	27.5	26.9	25.7	24.9	24.8
85°	24.2	23.1	19.1	16.6	15.9	15.2	14.8	14.8	13.4	13.0	13.0
87.5°	8.4	7.1	7.3	6.8	7.3	7.3	8.1	8.1	8.3	8.8	8.4
90°	3.1	5.2	7.4	9.4	11.9	14.6	17.4	20.2	22.9	23.8	24.6
92.5°	24.5	26.0	27.4	28.8	30.3	32.0	33.6	35.1	36.7	37.3	38.0
95°	57.8	59.3	60.8	62.3	63.9	65.6	67.3	69.0	70.7	71.5	72.4
97.5°	101.1	102.3	103.4	104.5	105.7	106.9	108.1	109.3	110.6	111.6	112.5
100°	131.1	132.4	133.7	135.0	136.1	137.2	138.3	139.3	140.3	141.0	141.7
102.5°	165.0	165.8	166.5	167.3	168.3	169.8	171.2	172.6	174.0	174.7	175.2
105°	215.3	215.7	216.1	216.6	217.7	219.6	221.5	223.5	225.4	225.4	225.4
107.5°	273.9	274.2	274.5	274.7	275.2	276.0	276.7	277.5	278.2	278.9	279.7
110°	310.8	311.2	311.6	312.1	312.5	312.9	313.3	313.8	314.1	315.0	315.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	348.8	349.0	349.3	349.6	349.7	349.8	349.9	350.0	350.1	351.1	352.1
115°	406.4	407.1	407.7	408.4	408.5	408.0	407.6	407.2	406.8	407.0	407.2
117.5°	463.9	464.4	464.8	465.2	465.1	464.6	464.0	463.4	463.0	462.9	462.9
120°	500.7	502.0	503.2	504.5	504.6	503.5	502.5	501.4	500.4	500.1	499.9
122.5°	537.8	538.8	539.6	540.5	540.7	540.3	539.7	539.1	538.6	538.0	537.4
125°	594.6	595.2	595.9	596.5	596.6	596.2	595.8	595.3	594.9	594.1	593.2
127.5°	648.0	649.4	650.7	652.1	652.5	652.1	651.6	651.1	650.6	649.5	648.3
130°	683.5	685.2	686.9	688.6	689.1	688.5	687.9	687.2	686.5	685.7	684.9
132.5°	718.6	720.3	722.1	723.8	724.3	723.9	723.4	722.9	722.5	721.4	720.5
135°	771.8	773.2	774.4	775.7	776.2	776.0	775.8	775.6	775.3	774.5	773.6
137.5°	821.3	822.4	823.4	824.5	825.3	825.9	826.4	827.0	827.6	826.6	825.8
140°	855.7	856.8	857.8	858.8	859.5	859.7	860.0	860.2	860.4	860.2	860.0
142.5°	887.0	888.1	889.1	890.2	890.9	891.3	891.6	892.1	892.5	892.2	892.0
145°	935.3	935.7	936.1	936.5	937.1	937.7	938.4	939.0	939.6	939.4	939.2
147.5°	978.4	979.1	980.0	980.7	981.4	981.9	982.6	983.2	983.7	983.7	983.7
150°	1007.9	1008.2	1008.7	1009.1	1009.6	1009.9	1010.4	1010.8	1011.3	1011.3	1011.3
152.5°	1032.5	1033.0	1033.7	1034.3	1034.6	1034.9	1035.2	1035.5	1035.7	1036.0	1036.3
155°	1070.4	1070.4	1070.4	1070.4	1070.5	1070.7	1071.0	1071.2	1071.4	1072.2	1073.1
157.5°	1103.1	1102.8	1102.5	1102.3	1102.2	1102.4	1102.6	1102.8	1102.9	1103.8	1104.7
160°	1123.5	1123.0	1122.7	1122.2	1122.0	1122.0	1122.0	1122.0	1122.0	1123.0	1124.2
162.5°	1141.7	1141.0	1140.5	1139.9	1139.6	1139.8	1140.0	1140.2	1140.4	1141.4	1142.5
165°	1165.3	1164.7	1164.0	1163.4	1163.1	1163.1	1163.1	1163.1	1163.1	1164.3	1165.6
167.5°	1184.0	1183.2	1182.3	1181.5	1181.1	1181.3	1181.5	1181.7	1181.8	1183.1	1184.4
170°	1194.7	1193.8	1193.0	1192.1	1191.8	1191.8	1191.8	1191.8	1191.8	1193.2	1194.7
172.5°	1203.1	1202.2	1201.4	1200.5	1200.1	1200.1	1200.1	1200.1	1200.1	1201.5	1202.8
175°	1211.9	1211.1	1210.2	1209.4	1208.9	1208.9	1208.9	1208.9	1208.9	1210.2	1211.4
177.5°	1215.7	1215.0	1214.3	1213.6	1213.3	1213.3	1213.3	1213.3	1213.3	1214.3	1215.3
180°	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	889.6	889.6	890.7	895.0	895.6	899.4	898.1
5°	977.6	984.5	987.0	997.9	1004.4	1007.2	1001.5
7.5°	1085.3	1104.7	1113.9	1125.2	1135.2	1138.3	1130.4
10°	1163.9	1184.1	1201.1	1211.5	1221.3	1227.8	1236.1
12.5°	1239.8	1264.7	1280.8	1295.6	1305.6	1313.9	1315.2
15°	1322.4	1359.9	1388.5	1409.4	1419.8	1425.3	1423.1
17.5°	1405.6	1440.4	1460.8	1482.1	1496.6	1497.3	1497.8
20°	1452.7	1486.7	1510.1	1526.0	1542.3	1541.5	1545.1
22.5°	1484.2	1510.9	1528.9	1540.4	1546.0	1543.2	1544.0
25°	1498.9	1506.8	1503.6	1485.2	1480.5	1463.6	1466.4
27.5°	1423.0	1385.4	1346.6	1296.6	1257.2	1225.7	1227.3
30°	1319.8	1253.4	1177.6	1114.1	1057.1	1041.1	1007.2
32.5°	1175.7	1076.1	987.3	928.1	879.1	865.8	836.2
35°	931.4	834.6	743.3	688.4	666.8	636.5	636.1
37.5°	724.0	638.8	590.5	549.3	527.7	509.3	507.6
40°	609.1	542.6	506.1	476.5	455.2	441.5	438.3
42.5°	528.8	475.0	440.8	422.5	406.1	399.1	393.8
45°	431.8	395.7	371.8	355.2	347.6	342.2	339.3
47.5°	361.2	337.0	320.7	309.7	303.5	297.8	299.4
50°	322.7	302.9	291.0	280.5	275.8	271.8	272.2
52.5°	291.8	274.0	264.4	256.8	251.0	248.2	246.8
55°	247.7	236.5	226.7	221.3	218.0	214.1	213.0
57.5°	211.2	202.6	194.6	188.5	187.8	183.9	184.4
60°	187.0	179.7	173.2	170.0	167.5	164.3	165.3
62.5°	167.1	161.0	155.0	152.4	149.9	147.5	148.0
65°	136.9	131.0	127.4	126.0	124.9	123.9	122.7
67.5°	109.1	105.5	103.2	100.1	97.9	97.6	96.4
70°	91.7	87.0	83.0	79.1	77.9	77.6	77.9
72.5°	73.5	70.5	69.5	67.5	67.3	66.4	67.0
75°	55.2	54.2	53.4	52.0	52.0	52.0	52.0
77.5°	40.7	40.1	39.7	39.3	39.0	38.5	38.5
80°	31.8	31.4	30.7	30.7	30.3	30.7	30.3
82.5°	23.9	23.9	23.2	23.2	22.8	22.6	22.8
85°	12.3	11.9	12.6	11.9	12.3	11.6	12.3
87.5°	8.6	8.8	8.6	8.7	8.5	9.1	8.6
90°	25.4	26.3	27.0	27.3	27.8	28.2	28.7
92.5°	38.7	39.4	39.6	39.3	39.1	38.8	38.5
95°	73.2	74.1	74.5	74.5	74.5	74.5	74.5
97.5°	113.5	114.5	114.9	114.8	114.8	114.7	114.6
100°	142.3	142.9	143.5	143.8	144.3	144.7	145.2
102.5°	175.9	176.5	176.8	176.7	176.6	176.5	176.4
105°	225.4	225.4	225.6	226.0	226.4	226.9	227.2
107.5°	280.3	281.0	281.2	281.0	280.7	280.4	280.1
110°	316.7	317.5	317.7	317.4	316.9	316.5	316.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	353.1	354.1	354.6	354.5	354.4	354.4	354.3
115°	407.5	407.6	407.6	407.5	407.2	407.0	406.8
117.5°	462.8	462.8	462.4	461.8	461.3	460.6	460.1
120°	499.7	499.5	499.2	498.8	498.3	497.9	497.5
122.5°	536.9	536.4	535.7	535.2	534.6	534.0	533.4
125°	592.4	591.5	590.7	589.8	589.0	588.1	587.3
127.5°	647.1	645.9	644.8	643.9	642.9	641.9	640.9
130°	684.0	683.2	682.0	680.5	679.0	677.6	676.1
132.5°	719.4	718.4	717.4	716.1	715.0	713.9	712.8
135°	772.8	771.9	771.4	770.9	770.5	770.1	769.7
137.5°	824.8	824.0	823.1	822.3	821.5	820.7	819.9
140°	859.7	859.5	858.7	857.1	855.7	854.2	852.7
142.5°	891.8	891.6	890.9	889.8	888.6	887.5	886.4
145°	939.0	938.8	938.2	937.4	936.5	935.7	934.8
147.5°	983.7	983.7	983.1	981.8	980.5	979.3	978.0
150°	1011.3	1011.3	1010.6	1009.4	1008.0	1006.8	1005.5
152.5°	1036.7	1037.1	1036.7	1035.6	1034.4	1033.3	1032.3
155°	1073.9	1074.8	1074.5	1073.0	1071.5	1070.1	1068.6
157.5°	1105.6	1106.5	1106.4	1105.1	1104.0	1102.8	1101.5
160°	1125.2	1126.2	1126.3	1125.5	1124.6	1123.8	1122.9
162.5°	1143.5	1144.6	1144.4	1143.1	1141.7	1140.4	1139.0
165°	1166.9	1168.2	1168.1	1166.6	1165.1	1163.6	1162.2
167.5°	1185.7	1187.0	1187.0	1185.7	1184.4	1183.1	1181.8
170°	1196.2	1197.7	1197.7	1196.2	1194.7	1193.2	1191.8
172.5°	1204.1	1205.4	1205.3	1203.8	1202.3	1200.8	1199.4
175°	1212.8	1214.0	1213.9	1212.4	1210.9	1209.5	1208.0
177.5°	1216.4	1217.4	1217.3	1216.1	1214.9	1213.7	1212.6
180°	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6

(END OF REPORT)