

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: P332398-830

Luminaire Tested: **S123RDIW-S340D1030U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332398-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S340D1030U830-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1030 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5166.6 lumens
Efficiency: N/A
Efficacy: 136.0 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

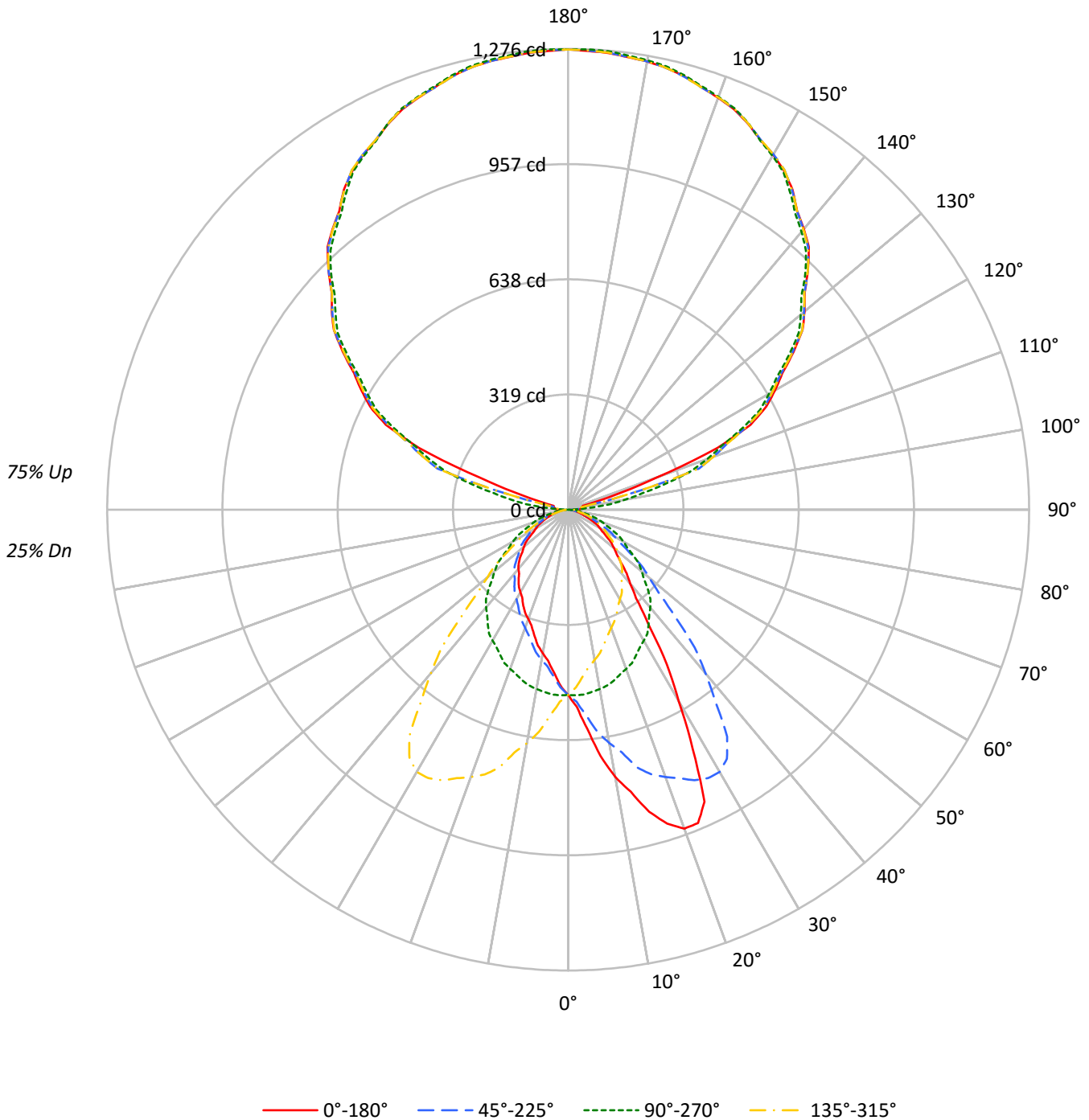
Input Watts (W): 38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	25
1	92	88	85	81	82	79	76	73	61	59	57	45	43	42	30	29	28	21
2	84	77	72	67	75	69	64	60	54	51	48	39	37	36	26	25	24	18
3	77	68	61	56	68	61	55	51	48	44	40	35	33	31	24	22	21	16
4	71	60	53	47	63	54	48	43	42	38	35	31	29	26	21	20	18	14
5	65	54	46	41	57	48	42	37	38	33	30	28	25	23	19	17	16	12
6	60	48	41	35	53	43	37	32	34	29	26	26	22	20	17	16	14	11
7	55	43	36	31	49	39	33	28	31	26	23	23	20	18	16	14	13	10
8	51	39	32	27	45	35	29	25	28	23	20	21	18	16	15	13	11	9
9	47	36	29	24	42	32	26	22	26	21	18	19	16	14	14	12	10	8
10	44	33	26	21	39	30	24	20	24	19	16	18	15	13	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5521	5521	5521	5521
5°	6582	5545	4883	5545
10°	8218	5513	4411	5513
15°	9646	5457	4023	5457
20°	10766	5372	3692	5372
25°	10594	5284	3489	5284
30°	7615	5203	3280	5203
35°	5084	5096	3144	5096
40°	3746	4967	3006	4967
45°	3142	4743	2868	4743
50°	2773	4449	2678	4449
55°	2432	4112	2415	4112
60°	2166	3791	2211	3791
65°	1900	3446	2058	3446
70°	1492	3138	1882	3138
75°	1314	2741	1718	2741
80°	1147	2325	1686	2325
85°	914	1877	1791	1877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.4	1.0
10°-20°	157.6	3.1
20°-30°	247.6	4.8
30°-40°	258.3	5.0
40°-50°	221.1	4.3
50°-60°	168.5	3.3
60°-70°	108.0	2.1
70°-80°	52.0	1.0
80°-90°	17.3	0.3
90°-100°	46.3	0.9
100°-110°	220.8	4.3
110°-120°	530.4	10.3
120°-130°	675.4	13.1
130°-140°	721.6	14.0
140°-150°	674.8	13.1
150°-160°	544.3	10.5
160°-170°	351.3	6.8
170°-180°	121.1	2.3
0°-30°	455.6	8.8
0°-40°	714.0	13.8
0°-60°	1103.5	21.4
0°-90°	1280.8	24.8
90°-120°	797.5	15.4
90°-150°	2869.2	55.5
90°-180°	3886.0	75.2
0°-180°	5166.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	513	513	513	513	513	
5°	609	513	452	513	609	63
15°	866	490	361	490	866	245
25°	892	445	294	445	892	383
35°	387	388	239	388	387	254
45°	206	312	188	312	206	162
55°	130	219	129	219	130	117
65°	75	135	81	135	75	73
75°	32	66	41	66	32	34
85°	7	15	14	15	7	9
90°	28	1	28	1	28	13
95°	36	58	36	58	36	30
105°	42	282	42	282	42	95
115°	557	529	557	529	557	514
125°	761	746	761	746	761	680
135°	938	929	938	929	938	723
145°	1082	1072	1082	1072	1082	675
155°	1179	1180	1179	1180	1179	543
165°	1242	1245	1242	1245	1242	351
175°	1270	1274	1270	1274	1270	121
180°	1274	1274	1274	1274	1274	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9
2.5°	546.4	547.1	544.8	544.4	541.8	541.1	537.3	535.1	532.2	530.4	530.4
5°	609.2	612.7	610.9	607.0	600.4	598.8	594.7	588.1	580.6	571.4	567.0
7.5°	687.6	692.4	690.5	684.5	677.5	671.9	660.2	649.2	634.0	620.5	609.0
10°	751.9	746.9	742.9	737.0	730.6	720.3	707.9	691.1	671.6	656.1	639.0
12.5°	800.0	799.2	794.2	788.1	779.1	769.3	754.1	733.6	710.9	688.6	669.0
15°	865.6	867.0	863.7	857.3	844.5	827.2	804.4	795.8	763.3	739.1	715.0
17.5°	911.1	910.8	910.3	901.5	888.5	876.2	855.0	832.5	803.0	769.0	736.5
20°	939.9	937.6	938.1	928.2	918.6	904.3	883.6	850.9	826.8	787.5	753.8
22.5°	939.1	938.7	940.4	937.0	930.0	919.1	902.8	875.2	844.3	804.6	766.9
25°	892.0	890.2	900.5	903.4	914.6	916.6	911.7	896.6	867.4	826.5	779.8
27.5°	746.5	745.6	764.7	788.7	819.1	842.7	865.5	876.6	867.4	838.1	791.3
30°	612.7	633.3	643.0	677.7	716.3	762.4	802.9	841.2	850.7	837.9	799.6
32.5°	508.7	526.7	534.8	564.5	600.6	654.6	715.2	769.6	808.0	817.7	794.7
35°	386.9	387.1	405.6	418.8	452.1	507.7	566.6	639.4	711.9	766.9	772.5
37.5°	308.8	309.8	321.0	334.1	359.2	388.5	440.4	501.0	584.7	668.9	718.4
40°	266.6	268.5	276.9	289.8	307.8	330.1	370.4	427.5	497.4	591.2	667.8
42.5°	239.5	242.7	247.0	257.0	268.2	289.0	321.6	365.7	429.2	517.9	606.3
45°	206.4	208.2	211.5	216.1	226.2	240.6	262.6	292.3	345.0	416.3	504.8
47.5°	182.1	181.2	184.6	188.3	195.1	205.0	219.7	243.8	281.4	338.7	413.8
50°	165.6	165.3	167.8	170.6	177.0	184.3	196.3	214.5	244.4	291.8	360.6
52.5°	150.1	150.9	152.7	156.2	160.8	166.6	177.5	190.7	216.3	257.2	314.5
55°	129.6	130.3	132.6	134.6	137.9	143.8	150.6	161.6	179.2	207.7	255.0
57.5°	112.2	111.9	114.1	114.7	118.4	123.2	128.5	137.0	149.8	171.0	202.7
60°	100.6	99.9	101.9	103.4	105.4	109.3	113.8	122.1	132.2	147.8	175.0
62.5°	90.0	89.7	91.1	92.7	94.3	97.9	101.6	108.0	116.0	129.1	150.8
65°	74.6	75.3	76.0	76.6	77.5	79.7	83.2	87.7	93.1	102.4	117.9
67.5°	58.7	59.4	59.6	60.9	62.8	64.2	66.4	70.2	74.1	81.8	90.7
70°	47.4	47.2	47.4	48.1	50.5	52.9	55.8	58.6	61.1	66.5	74.0
72.5°	40.7	40.3	40.9	41.1	42.2	42.9	44.7	47.4	50.5	54.2	59.6
75°	31.6	31.6	31.6	31.6	32.5	32.9	33.6	34.2	35.3	37.1	41.1
77.5°	23.4	23.4	23.8	23.9	24.1	24.4	24.8	25.4	25.8	26.8	28.5
80°	18.5	18.7	18.5	18.7	18.7	19.1	19.3	20.0	20.2	21.3	22.0
82.5°	13.9	13.8	13.9	14.1	14.1	14.5	14.6	15.1	15.1	15.6	16.3
85°	7.4	7.1	7.4	7.3	7.7	7.3	7.4	7.9	7.9	8.1	9.0
87.5°	7.4	7.7	7.3	7.4	7.3	7.4	7.2	7.0	7.2	6.8	6.5
90°	28.4	28.0	27.5	27.1	26.7	26.1	25.3	24.4	23.6	22.7	20.0
92.5°	31.4	31.2	30.9	30.6	30.4	29.6	28.3	27.0	25.5	24.2	22.1
95°	36.0	36.0	36.0	36.0	36.0	35.3	33.7	32.3	30.8	29.3	27.1
97.5°	39.0	38.8	38.5	38.4	38.2	37.2	35.5	33.8	32.1	30.4	45.6
100°	39.8	39.6	39.3	39.1	38.9	38.0	36.3	34.6	32.9	31.2	64.1
102.5°	40.5	40.2	39.8	39.4	39.0	41.4	46.7	51.8	57.1	62.3	98.1
105°	41.7	41.2	40.8	40.4	40.0	58.3	95.6	132.9	170.1	207.4	226.3
107.5°	130.8	158.9	187.0	215.0	243.1	270.8	298.1	325.4	352.7	380.0	377.0
110°	260.3	290.4	320.5	350.6	380.7	399.2	406.1	413.1	420.0	427.0	424.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	446.7	453.0	459.4	465.7	472.0	475.1	475.0	474.9	474.8	474.7	472.4
115°	556.7	555.8	555.0	554.1	553.3	551.9	549.7	547.6	545.5	543.4	541.5
117.5°	618.4	618.2	618.0	617.8	617.7	616.8	615.1	613.4	611.7	610.0	609.1
120°	660.8	660.8	660.8	660.8	660.8	660.0	658.3	656.6	654.9	653.2	652.6
122.5°	702.5	702.3	702.1	701.9	701.8	701.1	699.9	698.7	697.6	696.4	695.6
125°	761.1	760.7	760.3	759.9	759.5	759.0	758.7	758.2	757.8	757.3	756.5
127.5°	817.6	818.0	818.4	818.8	819.3	819.2	818.4	817.7	817.1	816.4	815.4
130°	853.9	854.3	854.8	855.2	855.6	855.4	854.5	853.8	852.9	852.1	851.2
132.5°	887.2	887.9	888.4	889.0	889.6	889.5	888.6	887.8	886.9	886.1	885.4
135°	938.2	938.8	939.4	940.1	940.7	940.7	940.1	939.4	938.8	938.2	937.4
137.5°	986.1	986.5	986.9	987.3	987.8	987.5	986.5	985.4	984.4	983.4	983.0
140°	1014.8	1015.3	1015.7	1016.2	1016.5	1016.3	1015.5	1014.6	1013.8	1013.0	1012.3
142.5°	1041.3	1042.0	1042.5	1043.1	1043.7	1043.7	1043.0	1042.4	1041.7	1040.9	1040.4
145°	1082.0	1082.0	1082.0	1082.0	1082.0	1081.9	1081.5	1081.0	1080.6	1080.2	1079.8
147.5°	1112.4	1113.3	1114.3	1115.3	1116.3	1116.5	1116.1	1115.7	1115.2	1114.8	1114.4
150°	1135.1	1135.8	1136.3	1137.0	1137.6	1137.7	1137.3	1136.9	1136.4	1136.0	1135.6
152.5°	1153.3	1154.2	1155.2	1156.1	1157.2	1157.3	1156.5	1155.7	1155.0	1154.2	1154.0
155°	1178.6	1179.9	1181.2	1182.4	1183.6	1183.8	1182.7	1181.7	1180.6	1179.6	1179.4
157.5°	1200.0	1201.6	1203.3	1204.9	1206.5	1206.7	1205.5	1204.3	1203.0	1201.7	1201.9
160°	1213.6	1215.1	1216.6	1218.0	1219.6	1219.7	1218.4	1217.1	1215.9	1214.7	1214.8
162.5°	1226.5	1227.9	1229.2	1230.5	1231.7	1231.7	1230.3	1228.8	1227.4	1226.0	1226.2
165°	1242.1	1243.5	1245.0	1246.5	1247.9	1247.8	1246.1	1244.4	1242.8	1241.1	1241.3
167.5°	1253.2	1254.9	1256.6	1258.3	1260.0	1260.0	1258.3	1256.6	1254.9	1253.2	1253.2
170°	1260.1	1261.7	1263.4	1265.1	1266.8	1266.8	1265.1	1263.4	1261.7	1260.1	1260.1
172.5°	1263.9	1265.6	1267.5	1269.4	1271.2	1271.3	1269.6	1268.0	1266.3	1264.6	1264.4
175°	1269.5	1271.2	1272.9	1274.6	1276.3	1276.4	1274.9	1273.4	1272.0	1270.5	1270.3
177.5°	1271.2	1272.9	1274.6	1276.3	1278.0	1278.1	1276.8	1275.4	1274.1	1272.7	1272.5
180°	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9
2.5°	529.6	529.1	526.7	523.9	520.2	517.7	515.8	514.7	511.5	507.7	505.1
5°	562.4	555.8	548.7	540.2	532.3	524.1	519.2	513.2	506.0	497.9	492.1
7.5°	597.4	584.5	570.6	556.2	542.1	529.3	518.0	508.4	496.9	485.2	477.1
10°	624.3	605.4	585.9	565.9	547.7	530.6	517.4	504.4	490.6	477.2	467.0
12.5°	648.8	623.9	601.3	576.7	553.5	533.0	514.1	498.8	482.1	467.9	456.4
15°	679.7	654.1	627.0	589.6	558.6	532.7	509.6	489.7	469.5	451.9	440.7
17.5°	708.5	670.2	633.6	602.5	562.2	529.9	501.7	477.9	455.6	437.1	423.2
20°	720.5	683.3	643.7	603.9	564.4	528.1	495.4	469.0	446.0	424.9	412.2
22.5°	727.6	685.7	643.8	601.1	559.1	521.4	489.1	460.1	435.1	415.1	399.4
25°	736.0	686.0	639.9	597.8	554.9	514.1	475.6	444.9	417.9	396.6	379.9
27.5°	741.6	682.7	628.2	581.4	537.9	497.3	462.0	429.4	402.0	379.5	361.6
30°	742.6	680.0	619.3	568.5	524.4	487.0	449.7	418.6	389.6	365.6	348.9
32.5°	744.0	673.5	607.1	553.3	508.0	471.1	437.2	407.5	377.8	354.2	337.1
35°	738.3	670.0	588.7	526.8	481.5	445.7	415.3	387.8	358.6	335.7	318.4
37.5°	713.3	655.7	569.7	497.0	449.7	416.6	391.7	367.8	341.0	316.3	300.0
40°	688.2	641.7	554.9	478.9	429.5	395.5	373.1	353.5	327.6	304.5	287.0
42.5°	650.8	622.5	540.8	460.0	406.7	373.9	355.0	336.7	314.0	290.5	274.0
45°	582.1	585.9	512.1	429.7	375.0	342.1	324.3	311.6	291.4	272.1	255.1
47.5°	496.1	530.9	478.3	397.6	341.8	310.9	295.3	284.2	270.5	251.6	236.1
50°	439.9	489.7	451.3	376.0	320.8	290.1	274.8	265.7	253.8	238.9	224.2
52.5°	388.0	441.6	418.6	351.9	298.1	270.0	255.1	247.6	238.2	224.1	210.8
55°	316.4	370.7	365.4	315.6	264.2	238.9	227.5	219.1	212.8	202.3	191.7
57.5°	256.0	307.4	310.1	275.1	234.2	209.2	199.4	193.1	189.0	181.1	171.3
60°	217.8	265.0	274.3	247.9	212.8	190.9	181.2	176.1	172.9	166.5	159.0
62.5°	186.2	226.4	236.9	217.9	192.3	171.6	164.1	159.3	157.0	151.6	145.0
65°	142.5	175.9	186.0	175.5	162.0	145.6	139.4	135.3	133.3	130.3	125.4
67.5°	107.2	131.5	142.6	135.2	130.3	119.9	116.0	113.8	112.0	109.9	105.8
70°	86.1	104.1	115.5	113.6	109.6	104.1	101.2	99.7	97.9	96.1	92.7
72.5°	69.2	81.6	92.3	93.3	90.1	89.0	86.4	85.8	84.7	82.7	80.7
75°	45.9	54.5	61.9	64.8	66.1	67.2	66.1	65.9	65.7	63.9	62.8
77.5°	30.1	34.7	39.4	44.3	46.4	47.8	48.2	49.0	48.4	47.5	46.9
80°	23.1	24.1	27.4	31.6	34.9	36.2	37.1	37.5	37.3	37.1	36.2
82.5°	16.8	17.6	19.2	22.1	24.9	27.1	27.6	27.5	28.0	28.2	27.4
85°	9.0	9.2	9.7	10.1	11.6	14.0	14.7	15.2	15.6	15.6	14.2
87.5°	6.2	5.6	5.4	4.9	5.0	4.7	5.4	5.8	6.4	6.1	6.5
90°	17.2	14.5	11.8	9.3	7.3	5.2	3.0	0.9	3.0	5.2	7.3
92.5°	20.1	18.1	16.0	15.3	15.8	16.4	17.1	17.6	17.1	16.4	15.8
95°	24.7	22.4	20.1	23.3	31.9	40.5	49.1	57.8	49.1	40.5	31.9
97.5°	60.8	76.0	91.0	100.6	104.4	108.3	112.2	116.0	112.2	108.3	104.4
100°	96.9	129.7	162.5	176.8	172.6	168.4	164.2	159.9	164.2	168.4	172.6
102.5°	134.0	169.8	205.7	222.1	219.0	216.0	213.0	210.0	213.0	216.0	219.0
105°	245.2	264.1	283.0	291.3	289.1	286.7	284.5	282.1	284.5	286.7	289.1
107.5°	374.0	371.1	368.1	365.6	363.8	361.9	360.1	358.3	360.1	361.9	363.8
110°	422.4	420.0	417.7	415.7	414.1	412.4	410.7	409.0	410.7	412.4	414.1



TEST NUMBER: P332398-830

CATALOG NUMBER: S123RDIW-S340D1030U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	470.0	467.7	465.4	463.5	462.0	460.4	458.9	457.4	458.9	460.4	462.0
115°	539.6	537.7	535.8	534.2	533.0	531.7	530.5	529.2	530.5	531.7	533.0
117.5°	608.1	607.2	606.1	604.9	603.3	601.8	600.2	598.7	600.2	601.8	603.3
120°	652.0	651.3	650.7	649.4	647.5	645.6	643.8	641.9	643.8	645.6	647.5
122.5°	694.7	694.0	693.1	692.0	690.4	688.9	687.3	685.8	687.3	688.9	690.4
125°	755.6	754.8	754.0	752.7	751.0	749.3	747.7	746.0	747.7	749.3	751.0
127.5°	814.5	813.4	812.4	811.1	809.4	807.7	806.0	804.3	806.0	807.7	809.4
130°	850.4	849.5	848.7	847.4	845.7	844.0	842.4	840.7	842.4	844.0	845.7
132.5°	884.8	884.1	883.4	882.2	880.5	878.8	877.2	875.5	877.2	878.8	880.5
135°	936.5	935.7	934.8	933.8	932.5	931.2	930.0	928.7	930.0	931.2	932.5
137.5°	982.5	982.0	981.6	980.5	978.9	977.3	975.7	974.1	975.7	977.3	978.9
140°	1011.7	1011.1	1010.4	1009.5	1008.2	1007.0	1005.7	1004.5	1005.7	1007.0	1008.2
142.5°	1039.7	1039.1	1038.5	1037.6	1036.2	1035.0	1033.7	1032.5	1033.7	1035.0	1036.2
145°	1079.3	1078.9	1078.5	1077.5	1076.1	1074.6	1073.1	1071.7	1073.1	1074.6	1076.1
147.5°	1114.0	1113.5	1113.1	1112.5	1111.4	1110.5	1109.6	1108.6	1109.6	1110.5	1111.4
150°	1135.2	1134.7	1134.3	1133.8	1133.2	1132.6	1131.9	1131.3	1131.9	1132.6	1133.2
152.5°	1153.7	1153.5	1153.2	1152.9	1152.6	1152.4	1152.1	1151.8	1152.1	1152.4	1152.6
155°	1179.1	1178.9	1178.7	1178.8	1179.3	1179.7	1180.1	1180.5	1180.1	1179.7	1179.3
157.5°	1202.1	1202.4	1202.6	1202.7	1202.8	1202.8	1202.9	1202.9	1202.9	1202.8	1202.8
160°	1215.0	1215.2	1215.4	1215.7	1215.9	1216.1	1216.3	1216.5	1216.3	1216.1	1215.9
162.5°	1226.4	1226.6	1226.8	1227.2	1227.8	1228.3	1228.8	1229.4	1228.8	1228.3	1227.8
165°	1241.5	1241.7	1242.0	1242.4	1243.0	1243.7	1244.3	1244.9	1244.3	1243.7	1243.0
167.5°	1253.2	1253.2	1253.2	1253.7	1254.5	1255.4	1256.2	1257.0	1256.2	1255.4	1254.5
170°	1260.1	1260.1	1260.1	1260.5	1261.3	1262.2	1263.0	1263.9	1263.0	1262.2	1261.3
172.5°	1264.2	1264.0	1263.9	1264.3	1265.4	1266.4	1267.3	1268.4	1267.3	1266.4	1265.4
175°	1270.1	1269.8	1269.6	1270.1	1271.1	1272.1	1273.2	1274.2	1273.2	1272.1	1271.1
177.5°	1272.4	1272.2	1272.1	1272.4	1273.3	1274.1	1274.9	1275.7	1274.9	1274.1	1273.3
180°	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2



TEST NUMBER: P332398-830

CATALOG NUMBER: S123RDIW-S340D1030U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9
2.5°	504.2	501.9	500.3	496.8	494.6	492.1	489.7	491.2	491.0	490.9	490.9
5°	487.3	482.2	477.6	471.6	468.0	463.4	459.9	459.4	460.2	457.2	455.4
7.5°	470.5	463.6	457.0	450.5	443.6	438.0	434.6	432.9	430.7	428.9	426.9
10°	458.7	450.6	444.2	436.1	428.7	422.1	417.9	415.0	413.5	412.0	409.1
12.5°	446.6	438.7	430.6	421.3	414.2	406.6	403.5	400.3	397.4	395.6	391.7
15°	428.9	418.6	410.0	400.3	392.4	384.9	380.6	374.2	373.3	371.1	367.1
17.5°	411.0	399.9	388.0	380.9	372.0	364.2	357.5	355.4	349.1	346.8	343.3
20°	397.0	386.7	377.7	368.3	355.3	348.1	342.8	340.0	334.9	331.8	329.6
22.5°	384.9	374.4	364.0	353.0	342.3	334.1	330.3	325.8	323.1	318.8	316.4
25°	367.6	356.2	343.7	331.8	324.1	318.0	311.8	307.8	303.9	301.9	297.6
27.5°	347.5	335.5	323.9	314.8	305.4	299.4	293.8	290.3	285.5	282.2	279.7
30°	336.4	322.3	312.3	304.2	292.1	286.3	282.2	277.8	274.3	270.8	268.3
32.5°	323.6	310.8	301.2	291.2	281.9	275.6	270.2	266.4	263.3	260.0	257.6
35°	303.5	292.8	282.9	272.8	265.9	259.6	253.2	249.9	247.0	243.9	241.8
37.5°	285.3	275.2	265.8	256.3	247.8	242.6	237.5	235.0	231.1	229.0	226.9
40°	274.1	264.2	254.1	244.9	236.1	232.1	227.5	223.8	220.3	218.7	216.3
42.5°	261.7	251.8	243.4	233.5	226.2	220.8	216.6	212.5	209.9	207.6	206.3
45°	243.6	234.8	226.4	216.5	209.7	205.1	200.3	196.5	194.2	192.6	190.2
47.5°	225.8	217.1	208.6	200.0	193.4	188.1	183.2	180.7	177.5	175.6	174.0
50°	213.0	205.1	196.1	188.2	181.6	176.3	172.4	169.1	166.3	163.8	162.7
52.5°	201.2	192.8	185.0	177.7	170.7	164.8	161.2	157.7	155.5	152.8	151.5
55°	181.8	173.7	167.1	159.9	153.1	148.0	143.6	140.5	138.4	135.3	133.6
57.5°	163.6	156.3	148.5	142.1	135.2	130.9	127.2	123.1	120.4	118.0	116.2
60°	151.3	143.0	136.1	130.3	124.0	118.6	115.3	112.0	109.1	106.7	105.2
62.5°	138.5	131.2	124.7	118.3	112.6	107.8	104.1	101.3	98.8	97.3	95.7
65°	118.8	113.1	106.5	101.2	96.0	92.5	89.4	87.0	85.2	84.1	82.8
67.5°	100.7	95.2	89.4	84.3	80.7	78.0	76.1	74.0	73.0	71.6	70.8
70°	89.0	83.2	78.1	74.2	70.7	68.7	67.4	65.9	65.0	63.2	62.4
72.5°	76.2	72.0	68.3	65.1	62.3	60.5	58.8	56.9	55.5	53.5	52.7
75°	59.9	56.2	53.3	51.2	49.4	47.0	44.6	42.6	41.9	41.3	41.1
77.5°	44.4	42.0	40.0	38.1	35.9	34.2	33.6	33.2	33.1	32.7	32.7
80°	34.9	32.7	31.2	29.0	27.7	27.7	27.7	27.2	27.4	27.4	27.4
82.5°	25.9	23.9	23.1	22.3	22.1	22.2	22.2	22.3	22.1	22.5	22.3
85°	13.4	13.6	14.0	13.9	14.0	14.0	14.5	14.2	14.5	14.0	14.5
87.5°	6.8	7.8	8.5	9.2	10.0	10.4	10.7	10.8	11.2	11.4	11.5
90°	9.3	11.8	14.5	17.2	20.0	22.7	23.6	24.4	25.3	26.1	26.7
92.5°	15.3	16.0	18.1	20.1	22.1	24.2	25.5	27.0	28.3	29.6	30.4
95°	23.3	20.1	22.4	24.7	27.1	29.3	30.8	32.3	33.7	35.3	36.0
97.5°	100.6	91.0	76.0	60.8	45.6	30.4	32.1	33.8	35.5	37.2	38.2
100°	176.8	162.5	129.7	96.9	64.1	31.2	32.9	34.6	36.3	38.0	38.9
102.5°	222.1	205.7	169.8	134.0	98.1	62.3	57.1	51.8	46.7	41.4	39.0
105°	291.3	283.0	264.1	245.2	226.3	207.4	170.1	132.9	95.6	58.3	40.0
107.5°	365.6	368.1	371.1	374.0	377.0	380.0	352.7	325.4	298.1	270.8	243.1
110°	415.7	417.7	420.0	422.4	424.6	427.0	420.0	413.1	406.1	399.2	380.7



TEST NUMBER: P332398-830

CATALOG NUMBER: S123RDIW-S340D1030U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	463.5	465.4	467.7	470.0	472.4	474.7	474.8	474.9	475.0	475.1	472.0
115°	534.2	535.8	537.7	539.6	541.5	543.4	545.5	547.6	549.7	551.9	553.3
117.5°	604.9	606.1	607.2	608.1	609.1	610.0	611.7	613.4	615.1	616.8	617.7
120°	649.4	650.7	651.3	652.0	652.6	653.2	654.9	656.6	658.3	660.0	660.8
122.5°	692.0	693.1	694.0	694.7	695.6	696.4	697.6	698.7	699.9	701.1	701.8
125°	752.7	754.0	754.8	755.6	756.5	757.3	757.8	758.2	758.7	759.0	759.5
127.5°	811.1	812.4	813.4	814.5	815.4	816.4	817.1	817.7	818.4	819.2	819.3
130°	847.4	848.7	849.5	850.4	851.2	852.1	852.9	853.8	854.5	855.4	855.6
132.5°	882.2	883.4	884.1	884.8	885.4	886.1	886.9	887.8	888.6	889.5	889.6
135°	933.8	934.8	935.7	936.5	937.4	938.2	938.8	939.4	940.1	940.7	940.7
137.5°	980.5	981.6	982.0	982.5	983.0	983.4	984.4	985.4	986.5	987.5	987.8
140°	1009.5	1010.4	1011.1	1011.7	1012.3	1013.0	1013.8	1014.6	1015.5	1016.3	1016.5
142.5°	1037.6	1038.5	1039.1	1039.7	1040.4	1040.9	1041.7	1042.4	1043.0	1043.7	1043.7
145°	1077.5	1078.5	1078.9	1079.3	1079.8	1080.2	1080.6	1081.0	1081.5	1081.9	1082.0
147.5°	1112.5	1113.1	1113.5	1114.0	1114.4	1114.8	1115.2	1115.7	1116.1	1116.5	1116.3
150°	1133.8	1134.3	1134.7	1135.2	1135.6	1136.0	1136.4	1136.9	1137.3	1137.7	1137.6
152.5°	1152.9	1153.2	1153.5	1153.7	1154.0	1154.2	1155.0	1155.7	1156.5	1157.3	1157.2
155°	1178.8	1178.7	1178.9	1179.1	1179.4	1179.6	1180.6	1181.7	1182.7	1183.8	1183.6
157.5°	1202.7	1202.6	1202.4	1202.1	1201.9	1201.7	1203.0	1204.3	1205.5	1206.7	1206.5
160°	1215.7	1215.4	1215.2	1215.0	1214.8	1214.7	1215.9	1217.1	1218.4	1219.7	1219.6
162.5°	1227.2	1226.8	1226.6	1226.4	1226.2	1226.0	1227.4	1228.8	1230.3	1231.7	1231.7
165°	1242.4	1242.0	1241.7	1241.5	1241.3	1241.1	1242.8	1244.4	1246.1	1247.8	1247.9
167.5°	1253.7	1253.2	1253.2	1253.2	1253.2	1253.2	1254.9	1256.6	1258.3	1260.0	1260.0
170°	1260.5	1260.1	1260.1	1260.1	1260.1	1260.1	1261.7	1263.4	1265.1	1266.8	1266.8
172.5°	1264.3	1263.9	1264.0	1264.2	1264.4	1264.6	1266.3	1268.0	1269.6	1271.3	1271.2
175°	1270.1	1269.6	1269.8	1270.1	1270.3	1270.5	1272.0	1273.4	1274.9	1276.4	1276.3
177.5°	1272.4	1272.1	1272.2	1272.4	1272.5	1272.7	1274.1	1275.4	1276.8	1278.1	1278.0
180°	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2



TEST NUMBER: P332398-830

CATALOG NUMBER: S123RDIW-S340D1030U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9
2.5°	488.7	488.5	488.7	488.0	488.7	488.5	488.7	490.9	490.9	491.0	491.2
5°	454.8	454.6	453.9	451.9	453.9	454.6	454.8	455.4	457.2	460.2	459.4
7.5°	425.1	424.8	422.9	422.9	422.9	424.8	425.1	426.9	428.9	430.7	432.9
10°	407.6	407.7	405.1	403.6	405.1	407.7	407.6	409.1	412.0	413.5	415.0
12.5°	390.5	389.6	387.4	385.7	387.4	389.6	390.5	391.7	395.6	397.4	400.3
15°	368.1	365.8	360.6	361.0	360.6	365.8	368.1	367.1	371.1	373.3	374.2
17.5°	341.6	340.0	339.9	336.8	339.9	340.0	341.6	343.3	346.8	349.1	355.4
20°	326.1	325.0	325.5	322.3	325.5	325.0	326.1	329.6	331.8	334.9	340.0
22.5°	314.0	312.8	311.0	310.1	311.0	312.8	314.0	316.4	318.8	323.1	325.8
25°	296.2	294.5	292.8	293.8	292.8	294.5	296.2	297.6	301.9	303.9	307.8
27.5°	278.5	277.2	275.4	275.2	275.4	277.2	278.5	279.7	282.2	285.5	290.3
30°	267.2	265.9	265.0	263.9	265.0	265.9	267.2	268.3	270.8	274.3	277.8
32.5°	255.8	255.5	254.0	253.7	254.0	255.5	255.8	257.6	260.0	263.3	266.4
35°	240.9	239.6	239.1	239.3	239.1	239.6	240.9	241.8	243.9	247.0	249.9
37.5°	226.7	225.0	224.1	223.4	224.1	225.0	226.7	226.9	229.0	231.1	235.0
40°	216.5	214.8	214.3	213.9	214.3	214.8	216.5	216.3	218.7	220.3	223.8
42.5°	205.1	204.4	204.2	203.3	204.2	204.4	205.1	206.3	207.6	209.9	212.5
45°	189.5	189.3	187.9	188.4	187.9	189.3	189.5	190.2	192.6	194.2	196.5
47.5°	173.1	172.1	171.2	171.8	171.2	172.1	173.1	174.0	175.6	177.5	180.7
50°	161.8	161.4	159.4	159.9	159.4	161.4	161.8	162.7	163.8	166.3	169.1
52.5°	150.6	148.9	148.2	147.9	148.2	148.9	150.6	151.5	152.8	155.5	157.7
55°	132.0	130.0	129.1	128.7	129.1	130.0	132.0	133.6	135.3	138.4	140.5
57.5°	113.7	113.2	112.4	112.9	112.4	113.2	113.7	116.2	118.0	120.4	123.1
60°	103.0	103.0	103.0	102.7	103.0	103.0	103.0	105.2	106.7	109.1	112.0
62.5°	94.7	94.2	94.1	94.3	94.1	94.2	94.7	95.7	97.3	98.8	101.3
65°	82.1	81.9	81.1	80.8	81.1	81.9	82.1	82.8	84.1	85.2	87.0
67.5°	70.2	69.5	69.2	68.9	69.2	69.5	70.2	70.8	71.6	73.0	74.0
70°	61.3	60.8	59.5	59.8	59.5	60.8	61.3	62.4	63.2	65.0	65.9
72.5°	51.7	51.2	50.9	50.6	50.9	51.2	51.7	52.7	53.5	55.5	56.9
75°	40.8	40.6	40.4	41.3	40.4	40.6	40.8	41.1	41.3	41.9	42.6
77.5°	32.7	32.7	32.9	32.5	32.9	32.7	32.7	32.7	32.7	33.1	33.2
80°	27.4	27.4	27.2	27.2	27.2	27.4	27.4	27.4	27.4	27.4	27.2
82.5°	22.0	22.1	22.3	22.0	22.3	22.1	22.0	22.3	22.5	22.1	22.3
85°	14.5	14.2	14.7	14.5	14.7	14.2	14.5	14.5	14.0	14.5	14.2
87.5°	12.0	11.7	11.8	12.0	11.8	11.7	12.0	11.5	11.4	11.2	10.8
90°	27.1	27.5	28.0	28.4	28.0	27.5	27.1	26.7	26.1	25.3	24.4
92.5°	30.6	30.9	31.2	31.4	31.2	30.9	30.6	30.4	29.6	28.3	27.0
95°	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	35.3	33.7	32.3
97.5°	38.4	38.5	38.8	39.0	38.8	38.5	38.4	38.2	37.2	35.5	33.8
100°	39.1	39.3	39.6	39.8	39.6	39.3	39.1	38.9	38.0	36.3	34.6
102.5°	39.4	39.8	40.2	40.5	40.2	39.8	39.4	39.0	41.4	46.7	51.8
105°	40.4	40.8	41.2	41.7	41.2	40.8	40.4	40.0	58.3	95.6	132.9
107.5°	215.0	187.0	158.9	130.8	158.9	187.0	215.0	243.1	270.8	298.1	325.4
110°	350.6	320.5	290.4	260.3	290.4	320.5	350.6	380.7	399.2	406.1	413.1



TEST NUMBER: P332398-830

CATALOG NUMBER: S123RDIW-S340D1030U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	465.7	459.4	453.0	446.7	453.0	459.4	465.7	472.0	475.1	475.0	474.9
115°	554.1	555.0	555.8	556.7	555.8	555.0	554.1	553.3	551.9	549.7	547.6
117.5°	617.8	618.0	618.2	618.4	618.2	618.0	617.8	617.7	616.8	615.1	613.4
120°	660.8	660.8	660.8	660.8	660.8	660.8	660.8	660.8	660.0	658.3	656.6
122.5°	701.9	702.1	702.3	702.5	702.3	702.1	701.9	701.8	701.1	699.9	698.7
125°	759.9	760.3	760.7	761.1	760.7	760.3	759.9	759.5	759.0	758.7	758.2
127.5°	818.8	818.4	818.0	817.6	818.0	818.4	818.8	819.3	819.2	818.4	817.7
130°	855.2	854.8	854.3	853.9	854.3	854.8	855.2	855.6	855.4	854.5	853.8
132.5°	889.0	888.4	887.9	887.2	887.9	888.4	889.0	889.6	889.5	888.6	887.8
135°	940.1	939.4	938.8	938.2	938.8	939.4	940.1	940.7	940.7	940.1	939.4
137.5°	987.3	986.9	986.5	986.1	986.5	986.9	987.3	987.8	987.5	986.5	985.4
140°	1016.2	1015.7	1015.3	1014.8	1015.3	1015.7	1016.2	1016.5	1016.3	1015.5	1014.6
142.5°	1043.1	1042.5	1042.0	1041.3	1042.0	1042.5	1043.1	1043.7	1043.7	1043.0	1042.4
145°	1082.0	1082.0	1082.0	1082.0	1082.0	1082.0	1082.0	1082.0	1081.9	1081.5	1081.0
147.5°	1115.3	1114.3	1113.3	1112.4	1113.3	1114.3	1115.3	1116.3	1116.5	1116.1	1115.7
150°	1137.0	1136.3	1135.8	1135.1	1135.8	1136.3	1137.0	1137.6	1137.7	1137.3	1136.9
152.5°	1156.1	1155.2	1154.2	1153.3	1154.2	1155.2	1156.1	1157.2	1157.3	1156.5	1155.7
155°	1182.4	1181.2	1179.9	1178.6	1179.9	1181.2	1182.4	1183.6	1183.8	1182.7	1181.7
157.5°	1204.9	1203.3	1201.6	1200.0	1201.6	1203.3	1204.9	1206.5	1206.7	1205.5	1204.3
160°	1218.0	1216.6	1215.1	1213.6	1215.1	1216.6	1218.0	1219.6	1219.7	1218.4	1217.1
162.5°	1230.5	1229.2	1227.9	1226.5	1227.9	1229.2	1230.5	1231.7	1231.7	1230.3	1228.8
165°	1246.5	1245.0	1243.5	1242.1	1243.5	1245.0	1246.5	1247.9	1247.8	1246.1	1244.4
167.5°	1258.3	1256.6	1254.9	1253.2	1254.9	1256.6	1258.3	1260.0	1260.0	1258.3	1256.6
170°	1265.1	1263.4	1261.7	1260.1	1261.7	1263.4	1265.1	1266.8	1266.8	1265.1	1263.4
172.5°	1269.4	1267.5	1265.6	1263.9	1265.6	1267.5	1269.4	1271.2	1271.3	1269.6	1268.0
175°	1274.6	1272.9	1271.2	1269.5	1271.2	1272.9	1274.6	1276.3	1276.4	1274.9	1273.4
177.5°	1276.3	1274.6	1272.9	1271.2	1272.9	1274.6	1276.3	1278.0	1278.1	1276.8	1275.4
180°	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2



TEST NUMBER: P332398-830

CATALOG NUMBER: S123RDIW-S340D1030U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9
2.5°	489.7	492.1	494.6	496.8	500.3	501.9	504.2	505.1	507.7	511.5	514.7
5°	459.9	463.4	468.0	471.6	477.6	482.2	487.3	492.1	497.9	506.0	513.2
7.5°	434.6	438.0	443.6	450.5	457.0	463.6	470.5	477.1	485.2	496.9	508.4
10°	417.9	422.1	428.7	436.1	444.2	450.6	458.7	467.0	477.2	490.6	504.4
12.5°	403.5	406.6	414.2	421.3	430.6	438.7	446.6	456.4	467.9	482.1	498.8
15°	380.6	384.9	392.4	400.3	410.0	418.6	428.9	440.7	451.9	469.5	489.7
17.5°	357.5	364.2	372.0	380.9	388.0	399.9	411.0	423.2	437.1	455.6	477.9
20°	342.8	348.1	355.3	368.3	377.7	386.7	397.0	412.2	424.9	446.0	469.0
22.5°	330.3	334.1	342.3	353.0	364.0	374.4	384.9	399.4	415.1	435.1	460.1
25°	311.8	318.0	324.1	331.8	343.7	356.2	367.6	379.9	396.6	417.9	444.9
27.5°	293.8	299.4	305.4	314.8	323.9	335.5	347.5	361.6	379.5	402.0	429.4
30°	282.2	286.3	292.1	304.2	312.3	322.3	336.4	348.9	365.6	389.6	418.6
32.5°	270.2	275.6	281.9	291.2	301.2	310.8	323.6	337.1	354.2	377.8	407.5
35°	253.2	259.6	265.9	272.8	282.9	292.8	303.5	318.4	335.7	358.6	387.8
37.5°	237.5	242.6	247.8	256.3	265.8	275.2	285.3	300.0	316.3	341.0	367.8
40°	227.5	232.1	236.1	244.9	254.1	264.2	274.1	287.0	304.5	327.6	353.5
42.5°	216.6	220.8	226.2	233.5	243.4	251.8	261.7	274.0	290.5	314.0	336.7
45°	200.3	205.1	209.7	216.5	226.4	234.8	243.6	255.1	272.1	291.4	311.6
47.5°	183.2	188.1	193.4	200.0	208.6	217.1	225.8	236.1	251.6	270.5	284.2
50°	172.4	176.3	181.6	188.2	196.1	205.1	213.0	224.2	238.9	253.8	265.7
52.5°	161.2	164.8	170.7	177.7	185.0	192.8	201.2	210.8	224.1	238.2	247.6
55°	143.6	148.0	153.1	159.9	167.1	173.7	181.8	191.7	202.3	212.8	219.1
57.5°	127.2	130.9	135.2	142.1	148.5	156.3	163.6	171.3	181.1	189.0	193.1
60°	115.3	118.6	124.0	130.3	136.1	143.0	151.3	159.0	166.5	172.9	176.1
62.5°	104.1	107.8	112.6	118.3	124.7	131.2	138.5	145.0	151.6	157.0	159.3
65°	89.4	92.5	96.0	101.2	106.5	113.1	118.8	125.4	130.3	133.3	135.3
67.5°	76.1	78.0	80.7	84.3	89.4	95.2	100.7	105.8	109.9	112.0	113.8
70°	67.4	68.7	70.7	74.2	78.1	83.2	89.0	92.7	96.1	97.9	99.7
72.5°	58.8	60.5	62.3	65.1	68.3	72.0	76.2	80.7	82.7	84.7	85.8
75°	44.6	47.0	49.4	51.2	53.3	56.2	59.9	62.8	63.9	65.7	65.9
77.5°	33.6	34.2	35.9	38.1	40.0	42.0	44.4	46.9	47.5	48.4	49.0
80°	27.7	27.7	27.7	29.0	31.2	32.7	34.9	36.2	37.1	37.3	37.5
82.5°	22.2	22.2	22.1	22.3	23.1	23.9	25.9	27.4	28.2	28.0	27.5
85°	14.5	14.0	14.0	13.9	14.0	13.6	13.4	14.2	15.6	15.6	15.2
87.5°	10.7	10.4	10.0	9.2	8.5	7.8	6.8	6.5	6.1	6.4	5.8
90°	23.6	22.7	20.0	17.2	14.5	11.8	9.3	7.3	5.2	3.0	0.9
92.5°	25.5	24.2	22.1	20.1	18.1	16.0	15.3	15.8	16.4	17.1	17.6
95°	30.8	29.3	27.1	24.7	22.4	20.1	23.3	31.9	40.5	49.1	57.8
97.5°	32.1	30.4	45.6	60.8	76.0	91.0	100.6	104.4	108.3	112.2	116.0
100°	32.9	31.2	64.1	96.9	129.7	162.5	176.8	172.6	168.4	164.2	159.9
102.5°	57.1	62.3	98.1	134.0	169.8	205.7	222.1	219.0	216.0	213.0	210.0
105°	170.1	207.4	226.3	245.2	264.1	283.0	291.3	289.1	286.7	284.5	282.1
107.5°	352.7	380.0	377.0	374.0	371.1	368.1	365.6	363.8	361.9	360.1	358.3
110°	420.0	427.0	424.6	422.4	420.0	417.7	415.7	414.1	412.4	410.7	409.0



TEST NUMBER: P332398-830

CATALOG NUMBER: S123RDIW-S340D1030U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	474.8	474.7	472.4	470.0	467.7	465.4	463.5	462.0	460.4	458.9	457.4
115°	545.5	543.4	541.5	539.6	537.7	535.8	534.2	533.0	531.7	530.5	529.2
117.5°	611.7	610.0	609.1	608.1	607.2	606.1	604.9	603.3	601.8	600.2	598.7
120°	654.9	653.2	652.6	652.0	651.3	650.7	649.4	647.5	645.6	643.8	641.9
122.5°	697.6	696.4	695.6	694.7	694.0	693.1	692.0	690.4	688.9	687.3	685.8
125°	757.8	757.3	756.5	755.6	754.8	754.0	752.7	751.0	749.3	747.7	746.0
127.5°	817.1	816.4	815.4	814.5	813.4	812.4	811.1	809.4	807.7	806.0	804.3
130°	852.9	852.1	851.2	850.4	849.5	848.7	847.4	845.7	844.0	842.4	840.7
132.5°	886.9	886.1	885.4	884.8	884.1	883.4	882.2	880.5	878.8	877.2	875.5
135°	938.8	938.2	937.4	936.5	935.7	934.8	933.8	932.5	931.2	930.0	928.7
137.5°	984.4	983.4	983.0	982.5	982.0	981.6	980.5	978.9	977.3	975.7	974.1
140°	1013.8	1013.0	1012.3	1011.7	1011.1	1010.4	1009.5	1008.2	1007.0	1005.7	1004.5
142.5°	1041.7	1040.9	1040.4	1039.7	1039.1	1038.5	1037.6	1036.2	1035.0	1033.7	1032.5
145°	1080.6	1080.2	1079.8	1079.3	1078.9	1078.5	1077.5	1076.1	1074.6	1073.1	1071.7
147.5°	1115.2	1114.8	1114.4	1114.0	1113.5	1113.1	1112.5	1111.4	1110.5	1109.6	1108.6
150°	1136.4	1136.0	1135.6	1135.2	1134.7	1134.3	1133.8	1133.2	1132.6	1131.9	1131.3
152.5°	1155.0	1154.2	1154.0	1153.7	1153.5	1153.2	1152.9	1152.6	1152.4	1152.1	1151.8
155°	1180.6	1179.6	1179.4	1179.1	1178.9	1178.7	1178.8	1179.3	1179.7	1180.1	1180.5
157.5°	1203.0	1201.7	1201.9	1202.1	1202.4	1202.6	1202.7	1202.8	1202.8	1202.9	1202.9
160°	1215.9	1214.7	1214.8	1215.0	1215.2	1215.4	1215.7	1215.9	1216.1	1216.3	1216.5
162.5°	1227.4	1226.0	1226.2	1226.4	1226.6	1226.8	1227.2	1227.8	1228.3	1228.8	1229.4
165°	1242.8	1241.1	1241.3	1241.5	1241.7	1242.0	1242.4	1243.0	1243.7	1244.3	1244.9
167.5°	1254.9	1253.2	1253.2	1253.2	1253.2	1253.2	1253.7	1254.5	1255.4	1256.2	1257.0
170°	1261.7	1260.1	1260.1	1260.1	1260.1	1260.1	1260.5	1261.3	1262.2	1263.0	1263.9
172.5°	1266.3	1264.6	1264.4	1264.2	1264.0	1263.9	1264.3	1265.4	1266.4	1267.3	1268.4
175°	1272.0	1270.5	1270.3	1270.1	1269.8	1269.6	1270.1	1271.1	1272.1	1273.2	1274.2
177.5°	1274.1	1272.7	1272.5	1272.4	1272.2	1272.1	1272.4	1273.3	1274.1	1274.9	1275.7
180°	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2



TEST NUMBER: P332398-830

CATALOG NUMBER: S123RDIW-S340D1030U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9
2.5°	515.8	517.7	520.2	523.9	526.7	529.1	529.6	530.4	532.2	535.1	537.3
5°	519.2	524.1	532.3	540.2	548.7	555.8	562.4	567.0	571.4	580.6	588.1
7.5°	518.0	529.3	542.1	556.2	570.6	584.5	597.4	609.0	620.5	634.0	649.2
10°	517.4	530.6	547.7	565.9	585.9	605.4	624.3	639.0	656.1	671.6	691.1
12.5°	514.1	533.0	553.5	576.7	601.3	623.9	648.8	669.0	688.6	710.9	733.6
15°	509.6	532.7	558.6	589.6	627.0	654.1	679.7	715.0	739.1	763.3	795.8
17.5°	501.7	529.9	562.2	602.5	633.6	670.2	708.5	736.5	769.0	803.0	832.5
20°	495.4	528.1	564.4	603.9	643.7	683.3	720.5	753.8	787.5	826.8	850.9
22.5°	489.1	521.4	559.1	601.1	643.8	685.7	727.6	766.9	804.6	844.3	875.2
25°	475.6	514.1	554.9	597.8	639.9	686.0	736.0	779.8	826.5	867.4	896.6
27.5°	462.0	497.3	537.9	581.4	628.2	682.7	741.6	791.3	838.1	867.4	876.6
30°	449.7	487.0	524.4	568.5	619.3	680.0	742.6	799.6	837.9	850.7	841.2
32.5°	437.2	471.1	508.0	553.3	607.1	673.5	744.0	794.7	817.7	808.0	769.6
35°	415.3	445.7	481.5	526.8	588.7	670.0	738.3	772.5	766.9	711.9	639.4
37.5°	391.7	416.6	449.7	497.0	569.7	655.7	713.3	718.4	668.9	584.7	501.0
40°	373.1	395.5	429.5	478.9	554.9	641.7	688.2	667.8	591.2	497.4	427.5
42.5°	355.0	373.9	406.7	460.0	540.8	622.5	650.8	606.3	517.9	429.2	365.7
45°	324.3	342.1	375.0	429.7	512.1	585.9	582.1	504.8	416.3	345.0	292.3
47.5°	295.3	310.9	341.8	397.6	478.3	530.9	496.1	413.8	338.7	281.4	243.8
50°	274.8	290.1	320.8	376.0	451.3	489.7	439.9	360.6	291.8	244.4	214.5
52.5°	255.1	270.0	298.1	351.9	418.6	441.6	388.0	314.5	257.2	216.3	190.7
55°	227.5	238.9	264.2	315.6	365.4	370.7	316.4	255.0	207.7	179.2	161.6
57.5°	199.4	209.2	234.2	275.1	310.1	307.4	256.0	202.7	171.0	149.8	137.0
60°	181.2	190.9	212.8	247.9	274.3	265.0	217.8	175.0	147.8	132.2	122.1
62.5°	164.1	171.6	192.3	217.9	236.9	226.4	186.2	150.8	129.1	116.0	108.0
65°	139.4	145.6	162.0	175.5	186.0	175.9	142.5	117.9	102.4	93.1	87.7
67.5°	116.0	119.9	130.3	135.2	142.6	131.5	107.2	90.7	81.8	74.1	70.2
70°	101.2	104.1	109.6	113.6	115.5	104.1	86.1	74.0	66.5	61.1	58.6
72.5°	86.4	89.0	90.1	93.3	92.3	81.6	69.2	59.6	54.2	50.5	47.4
75°	66.1	67.2	66.1	64.8	61.9	54.5	45.9	41.1	37.1	35.3	34.2
77.5°	48.2	47.8	46.4	44.3	39.4	34.7	30.1	28.5	26.8	25.8	25.4
80°	37.1	36.2	34.9	31.6	27.4	24.1	23.1	22.0	21.3	20.2	20.0
82.5°	27.6	27.1	24.9	22.1	19.2	17.6	16.8	16.3	15.6	15.1	15.1
85°	14.7	14.0	11.6	10.1	9.7	9.2	9.0	9.0	8.1	7.9	7.9
87.5°	5.4	4.7	5.0	4.9	5.4	5.6	6.2	6.5	6.8	7.2	7.0
90°	3.0	5.2	7.3	9.3	11.8	14.5	17.2	20.0	22.7	23.6	24.4
92.5°	17.1	16.4	15.8	15.3	16.0	18.1	20.1	22.1	24.2	25.5	27.0
95°	49.1	40.5	31.9	23.3	20.1	22.4	24.7	27.1	29.3	30.8	32.3
97.5°	112.2	108.3	104.4	100.6	91.0	76.0	60.8	45.6	30.4	32.1	33.8
100°	164.2	168.4	172.6	176.8	162.5	129.7	96.9	64.1	31.2	32.9	34.6
102.5°	213.0	216.0	219.0	222.1	205.7	169.8	134.0	98.1	62.3	57.1	51.8
105°	284.5	286.7	289.1	291.3	283.0	264.1	245.2	226.3	207.4	170.1	132.9
107.5°	360.1	361.9	363.8	365.6	368.1	371.1	374.0	377.0	380.0	352.7	325.4
110°	410.7	412.4	414.1	415.7	417.7	420.0	422.4	424.6	427.0	420.0	413.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	458.9	460.4	462.0	463.5	465.4	467.7	470.0	472.4	474.7	474.8	474.9
115°	530.5	531.7	533.0	534.2	535.8	537.7	539.6	541.5	543.4	545.5	547.6
117.5°	600.2	601.8	603.3	604.9	606.1	607.2	608.1	609.1	610.0	611.7	613.4
120°	643.8	645.6	647.5	649.4	650.7	651.3	652.0	652.6	653.2	654.9	656.6
122.5°	687.3	688.9	690.4	692.0	693.1	694.0	694.7	695.6	696.4	697.6	698.7
125°	747.7	749.3	751.0	752.7	754.0	754.8	755.6	756.5	757.3	757.8	758.2
127.5°	806.0	807.7	809.4	811.1	812.4	813.4	814.5	815.4	816.4	817.1	817.7
130°	842.4	844.0	845.7	847.4	848.7	849.5	850.4	851.2	852.1	852.9	853.8
132.5°	877.2	878.8	880.5	882.2	883.4	884.1	884.8	885.4	886.1	886.9	887.8
135°	930.0	931.2	932.5	933.8	934.8	935.7	936.5	937.4	938.2	938.8	939.4
137.5°	975.7	977.3	978.9	980.5	981.6	982.0	982.5	983.0	983.4	984.4	985.4
140°	1005.7	1007.0	1008.2	1009.5	1010.4	1011.1	1011.7	1012.3	1013.0	1013.8	1014.6
142.5°	1033.7	1035.0	1036.2	1037.6	1038.5	1039.1	1039.7	1040.4	1040.9	1041.7	1042.4
145°	1073.1	1074.6	1076.1	1077.5	1078.5	1078.9	1079.3	1079.8	1080.2	1080.6	1081.0
147.5°	1109.6	1110.5	1111.4	1112.5	1113.1	1113.5	1114.0	1114.4	1114.8	1115.2	1115.7
150°	1131.9	1132.6	1133.2	1133.8	1134.3	1134.7	1135.2	1135.6	1136.0	1136.4	1136.9
152.5°	1152.1	1152.4	1152.6	1152.9	1153.2	1153.5	1153.7	1154.0	1154.2	1155.0	1155.7
155°	1180.1	1179.7	1179.3	1178.8	1178.7	1178.9	1179.1	1179.4	1179.6	1180.6	1181.7
157.5°	1202.9	1202.8	1202.8	1202.7	1202.6	1202.4	1202.1	1201.9	1201.7	1203.0	1204.3
160°	1216.3	1216.1	1215.9	1215.7	1215.4	1215.2	1215.0	1214.8	1214.7	1215.9	1217.1
162.5°	1228.8	1228.3	1227.8	1227.2	1226.8	1226.6	1226.4	1226.2	1226.0	1227.4	1228.8
165°	1244.3	1243.7	1243.0	1242.4	1242.0	1241.7	1241.5	1241.3	1241.1	1242.8	1244.4
167.5°	1256.2	1255.4	1254.5	1253.7	1253.2	1253.2	1253.2	1253.2	1253.2	1254.9	1256.6
170°	1263.0	1262.2	1261.3	1260.5	1260.1	1260.1	1260.1	1260.1	1260.1	1261.7	1263.4
172.5°	1267.3	1266.4	1265.4	1264.3	1263.9	1264.0	1264.2	1264.4	1264.6	1266.3	1268.0
175°	1273.2	1272.1	1271.1	1270.1	1269.6	1269.8	1270.1	1270.3	1270.5	1272.0	1273.4
177.5°	1274.9	1274.1	1273.3	1272.4	1272.1	1272.2	1272.4	1272.5	1272.7	1274.1	1275.4
180°	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	512.9	512.9	512.9	512.9	512.9	512.9	512.9
2.5°	541.1	541.1	541.8	544.4	544.8	547.1	546.4
5°	594.7	598.8	600.4	607.0	610.9	612.7	609.2
7.5°	660.2	671.9	677.5	684.5	690.5	692.4	687.6
10°	707.9	720.3	730.6	737.0	742.9	746.9	751.9
12.5°	754.1	769.3	779.1	788.1	794.2	799.2	800.0
15°	804.4	827.2	844.5	857.3	863.7	867.0	865.6
17.5°	855.0	876.2	888.5	901.5	910.3	910.8	911.1
20°	883.6	904.3	918.6	928.2	938.1	937.6	939.9
22.5°	902.8	919.1	930.0	937.0	940.4	938.7	939.1
25°	911.7	916.6	914.6	903.4	900.5	890.2	892.0
27.5°	865.5	842.7	819.1	788.7	764.7	745.6	746.5
30°	802.9	762.4	716.3	677.7	643.0	633.3	612.7
32.5°	715.2	654.6	600.6	564.5	534.8	526.7	508.7
35°	566.6	507.7	452.1	418.8	405.6	387.1	386.9
37.5°	440.4	388.5	359.2	334.1	321.0	309.8	308.8
40°	370.4	330.1	307.8	289.8	276.9	268.5	266.6
42.5°	321.6	289.0	268.2	257.0	247.0	242.7	239.5
45°	262.6	240.6	226.2	216.1	211.5	208.2	206.4
47.5°	219.7	205.0	195.1	188.3	184.6	181.2	182.1
50°	196.3	184.3	177.0	170.6	167.8	165.3	165.6
52.5°	177.5	166.6	160.8	156.2	152.7	150.9	150.1
55°	150.6	143.8	137.9	134.6	132.6	130.3	129.6
57.5°	128.5	123.2	118.4	114.7	114.1	111.9	112.2
60°	113.8	109.3	105.4	103.4	101.9	99.9	100.6
62.5°	101.6	97.9	94.3	92.7	91.1	89.7	90.0
65°	83.2	79.7	77.5	76.6	76.0	75.3	74.6
67.5°	66.4	64.2	62.8	60.9	59.6	59.4	58.7
70°	55.8	52.9	50.5	48.1	47.4	47.2	47.4
72.5°	44.7	42.9	42.2	41.1	40.9	40.3	40.7
75°	33.6	32.9	32.5	31.6	31.6	31.6	31.6
77.5°	24.8	24.4	24.1	23.9	23.8	23.4	23.4
80°	19.3	19.1	18.7	18.7	18.5	18.7	18.5
82.5°	14.6	14.5	14.1	14.1	13.9	13.8	13.9
85°	7.4	7.3	7.7	7.3	7.4	7.1	7.4
87.5°	7.2	7.4	7.3	7.4	7.3	7.7	7.4
90°	25.3	26.1	26.7	27.1	27.5	28.0	28.4
92.5°	28.3	29.6	30.4	30.6	30.9	31.2	31.4
95°	33.7	35.3	36.0	36.0	36.0	36.0	36.0
97.5°	35.5	37.2	38.2	38.4	38.5	38.8	39.0
100°	36.3	38.0	38.9	39.1	39.3	39.6	39.8
102.5°	46.7	41.4	39.0	39.4	39.8	40.2	40.5
105°	95.6	58.3	40.0	40.4	40.8	41.2	41.7
107.5°	298.1	270.8	243.1	215.0	187.0	158.9	130.8
110°	406.1	399.2	380.7	350.6	320.5	290.4	260.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	475.0	475.1	472.0	465.7	459.4	453.0	446.7
115°	549.7	551.9	553.3	554.1	555.0	555.8	556.7
117.5°	615.1	616.8	617.7	617.8	618.0	618.2	618.4
120°	658.3	660.0	660.8	660.8	660.8	660.8	660.8
122.5°	699.9	701.1	701.8	701.9	702.1	702.3	702.5
125°	758.7	759.0	759.5	759.9	760.3	760.7	761.1
127.5°	818.4	819.2	819.3	818.8	818.4	818.0	817.6
130°	854.5	855.4	855.6	855.2	854.8	854.3	853.9
132.5°	888.6	889.5	889.6	889.0	888.4	887.9	887.2
135°	940.1	940.7	940.7	940.1	939.4	938.8	938.2
137.5°	986.5	987.5	987.8	987.3	986.9	986.5	986.1
140°	1015.5	1016.3	1016.5	1016.2	1015.7	1015.3	1014.8
142.5°	1043.0	1043.7	1043.7	1043.1	1042.5	1042.0	1041.3
145°	1081.5	1081.9	1082.0	1082.0	1082.0	1082.0	1082.0
147.5°	1116.1	1116.5	1116.3	1115.3	1114.3	1113.3	1112.4
150°	1137.3	1137.7	1137.6	1137.0	1136.3	1135.8	1135.1
152.5°	1156.5	1157.3	1157.2	1156.1	1155.2	1154.2	1153.3
155°	1182.7	1183.8	1183.6	1182.4	1181.2	1179.9	1178.6
157.5°	1205.5	1206.7	1206.5	1204.9	1203.3	1201.6	1200.0
160°	1218.4	1219.7	1219.6	1218.0	1216.6	1215.1	1213.6
162.5°	1230.3	1231.7	1231.7	1230.5	1229.2	1227.9	1226.5
165°	1246.1	1247.8	1247.9	1246.5	1245.0	1243.5	1242.1
167.5°	1258.3	1260.0	1260.0	1258.3	1256.6	1254.9	1253.2
170°	1265.1	1266.8	1266.8	1265.1	1263.4	1261.7	1260.1
172.5°	1269.6	1271.3	1271.2	1269.4	1267.5	1265.6	1263.9
175°	1274.9	1276.4	1276.3	1274.6	1272.9	1271.2	1269.5
177.5°	1276.8	1278.1	1278.0	1276.3	1274.6	1272.9	1271.2
180°	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2

(END OF REPORT)