

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: P331778

Luminaire Tested: **S122RDIW-S290D1240U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331778
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S290D1240U835-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1240 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5432.3 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

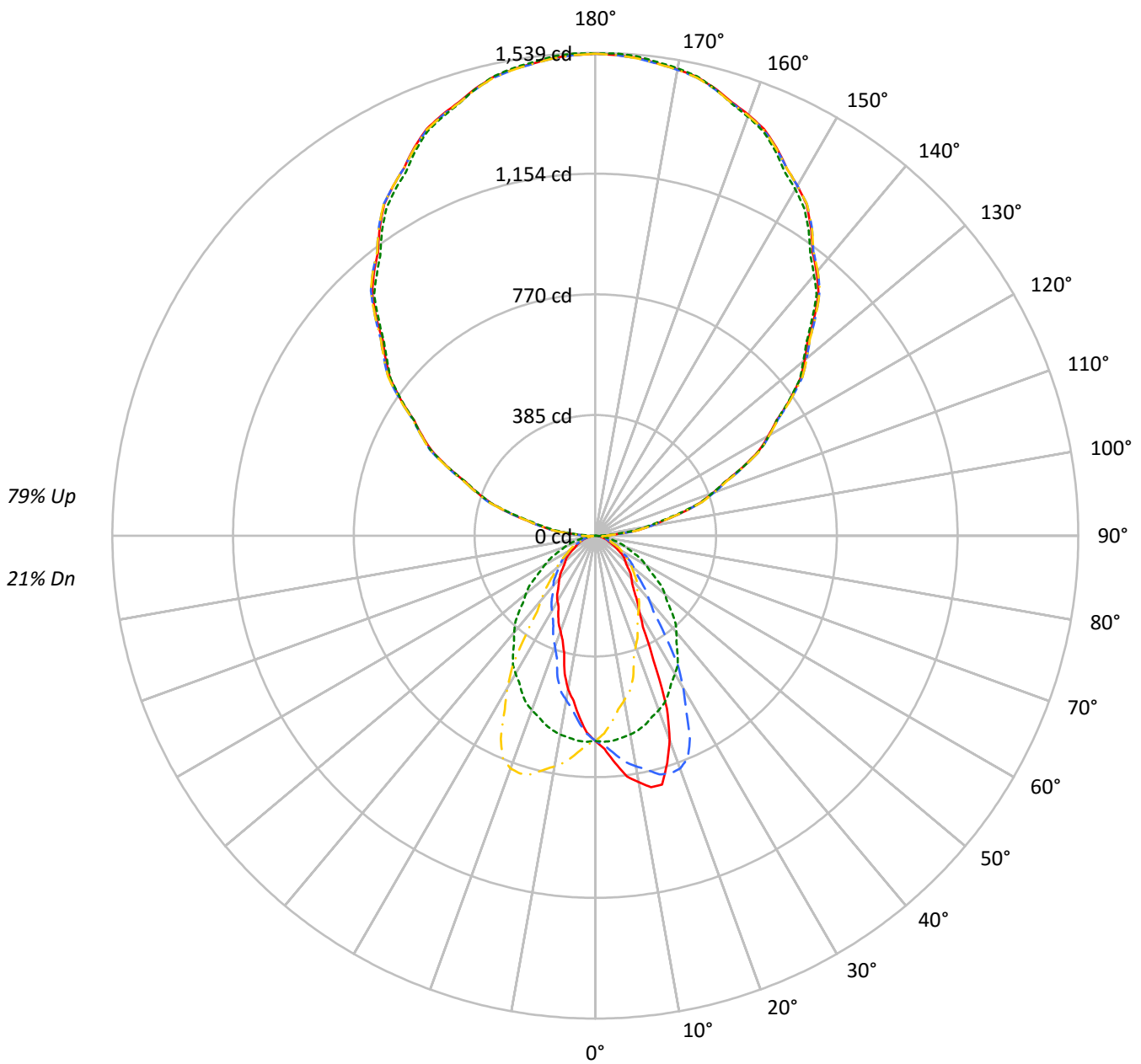
Input Watts (W): 46.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	100	100	100	100	89	89	89	89	67	67	67	47	47	47	29	29	29	21				
1	92	88	84	81	81	78	75	72	59	57	55	42	41	40	26	26	25	18				
2	84	77	71	66	74	68	64	60	52	49	46	37	35	34	24	23	22	16				
3	76	68	61	56	67	60	55	50	46	42	39	33	31	29	21	20	19	14				
4	70	60	53	47	62	54	47	43	41	37	34	30	27	25	19	18	17	12				
5	64	53	46	40	57	48	41	37	37	33	29	27	24	22	17	16	15	11				
6	59	48	40	35	52	43	36	32	33	29	25	24	21	19	16	14	13	10				
7	55	43	36	31	48	39	32	28	30	26	22	22	19	17	15	13	12	9				
8	51	39	32	27	45	35	29	25	27	23	20	20	17	15	14	12	11	8				
9	47	36	29	24	42	32	26	22	25	21	18	19	16	14	13	11	10	7				
10	44	33	26	21	39	29	24	20	23	19	16	17	14	12	12	10	9	7				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10555	10555	10555	10555
5°	11788	10621	9418	10621
10°	13080	10547	8163	10547
15°	13722	10392	6432	10392
20°	11897	10163	5565	10163
25°	7801	9850	4969	9850
30°	5252	9469	4497	9469
35°	4254	8990	4056	8990
40°	3781	8469	3754	8469
45°	3423	7857	3350	7857
50°	3115	7252	3105	7252
55°	2928	6579	2891	6579
60°	2451	5964	2422	5964
65°	2067	5414	2342	5414
70°	1907	4834	2209	4834
75°	1784	4211	2040	4211
80°	1646	3468	1813	3468
85°	1519	2742	1593	2742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	1.1
10°-20°	172.7	3.2
20°-30°	222.5	4.1
30°-40°	211.5	3.9
40°-50°	181.1	3.3
50°-60°	137.9	2.5
60°-70°	87.2	1.6
70°-80°	43.5	0.8
80°-90°	17.5	0.3
90°-100°	97.4	1.8
100°-110°	302.4	5.6
110°-120°	516.9	9.5
120°-130°	679.7	12.5
130°-140°	762.9	14.0
140°-150°	748.1	13.8
150°-160°	627.4	11.6
160°-170°	416.2	7.7
170°-180°	145.5	2.7
0°-30°	457.2	8.4
0°-40°	668.6	12.3
0°-60°	987.7	18.2
0°-90°	1135.9	20.9
90°-120°	916.6	16.9
90°-150°	3107.4	57.2
90°-180°	4296.0	79.1
0°-180°	5432.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	654	654	654	654	654	
5°	727	655	581	655	727	72
15°	821	622	385	622	821	221
25°	438	553	279	553	438	208
35°	216	456	206	456	216	138
45°	150	344	147	344	150	116
55°	104	234	103	234	104	91
65°	54	142	61	142	54	55
75°	29	68	33	68	29	30
85°	8	15	9	15	8	10
90°	44	1	44	1	44	19
95°	80	67	80	67	80	90
105°	288	279	288	279	288	303
115°	519	519	519	519	519	512
125°	757	755	757	755	757	675
135°	988	976	988	976	988	761
145°	1198	1185	1198	1185	1198	748
155°	1365	1355	1365	1355	1365	628
165°	1476	1474	1476	1474	1476	416
175°	1529	1534	1529	1534	1529	145
180°	1536	1536	1536	1536	1536	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	680.3	680.8	681.4	680.1	680.1	679.0	676.6	674.8	669.7	669.0	669.0
5°	727.3	726.9	727.8	724.8	720.8	719.8	715.5	709.8	703.9	697.4	696.0
7.5°	774.1	773.4	771.6	771.1	768.0	761.1	754.2	746.8	737.0	727.4	722.6
10°	797.8	805.3	800.7	792.8	794.3	783.7	778.0	768.2	760.0	745.7	742.6
12.5°	821.0	824.0	822.5	818.0	816.0	808.6	800.9	792.4	777.3	764.5	753.3
15°	820.9	825.2	826.4	825.0	826.1	825.7	821.6	814.6	801.4	787.3	775.0
17.5°	760.3	763.3	770.8	775.8	782.2	795.6	802.3	804.8	802.9	794.8	786.2
20°	692.4	687.4	708.3	718.9	728.0	750.7	770.3	777.8	789.8	789.6	787.3
22.5°	596.0	597.2	617.0	629.7	656.2	679.0	701.2	729.4	752.7	768.1	777.1
25°	437.9	446.6	466.3	483.6	513.1	555.4	593.8	638.3	680.3	713.5	745.1
27.5°	328.9	329.6	345.2	361.2	378.7	413.3	461.7	514.8	574.7	624.2	681.0
30°	281.7	280.3	286.9	296.7	311.7	338.5	374.8	427.0	486.8	561.3	627.6
32.5°	248.2	248.3	253.3	260.5	272.9	291.0	315.9	358.4	414.8	488.1	565.8
35°	215.8	215.6	219.2	224.4	229.6	241.2	258.3	280.5	319.4	387.7	467.2
37.5°	192.5	193.5	195.3	198.6	204.3	210.8	221.0	236.0	263.6	304.1	370.9
40°	179.4	179.9	182.4	185.1	188.5	193.5	201.9	214.0	234.2	266.4	315.3
42.5°	167.5	167.9	169.7	172.2	174.9	179.9	186.9	197.3	213.7	238.8	279.1
45°	149.9	149.9	151.5	152.6	155.6	160.1	165.8	174.5	185.8	204.4	231.2
47.5°	133.5	133.5	134.6	136.5	138.4	141.9	147.5	154.6	162.8	177.2	200.1
50°	124.0	124.3	124.9	126.5	127.7	130.8	135.2	141.3	149.9	161.1	180.1
52.5°	116.4	116.3	117.1	117.8	118.6	120.8	124.1	129.5	137.2	146.9	162.7
55°	104.0	103.1	104.5	105.6	106.3	107.2	109.0	112.4	119.0	127.2	139.0
57.5°	88.6	88.2	89.2	90.2	92.4	94.8	96.4	98.5	101.9	107.8	119.5
60°	75.9	75.9	77.9	78.6	81.1	84.3	87.5	89.3	92.7	96.5	105.2
62.5°	64.6	64.8	65.7	66.4	67.8	71.7	76.2	80.2	83.4	87.1	92.8
65°	54.1	54.5	54.5	55.0	55.9	56.8	58.6	61.8	67.5	72.7	77.0
67.5°	45.9	46.0	46.2	46.6	46.8	47.8	48.6	50.0	51.3	56.2	61.6
70°	40.4	41.1	40.9	41.3	41.6	42.0	42.9	43.6	45.7	46.8	50.0
72.5°	35.3	35.8	35.8	36.1	36.7	36.8	37.5	38.2	39.5	40.4	42.2
75°	28.6	28.4	28.6	29.1	29.3	29.5	29.5	30.4	31.1	32.0	33.2
77.5°	22.1	22.3	22.3	22.3	22.4	22.8	22.7	23.1	23.8	24.3	24.8
80°	17.7	17.9	17.7	17.9	18.2	18.4	18.2	18.4	19.1	19.5	19.5
82.5°	13.7	13.8	13.9	13.9	14.0	14.0	14.4	14.4	14.9	14.8	15.0
85°	8.2	8.0	8.0	8.0	8.2	8.4	8.2	8.2	8.4	8.4	8.4
87.5°	11.7	11.8	11.8	11.7	11.7	11.7	11.8	12.1	12.1	12.3	10.9
90°	44.1	43.8	43.5	43.2	42.9	43.1	43.7	44.2	44.8	45.4	39.0
92.5°	42.0	42.0	41.9	41.8	41.8	41.7	41.6	41.5	41.3	41.2	39.7
95°	80.4	81.0	81.5	82.1	82.7	83.0	83.0	83.0	83.0	83.0	82.4
97.5°	139.3	139.3	139.4	139.4	139.5	139.5	139.5	139.5	139.5	139.5	138.4
100°	177.6	177.9	178.2	178.5	178.8	178.9	178.9	178.9	178.9	178.9	178.1
102.5°	221.2	221.5	221.8	222.1	222.4	222.4	222.2	221.9	221.7	221.5	220.4
105°	287.9	287.9	287.9	287.9	287.9	287.6	287.0	286.4	285.8	285.3	284.7
107.5°	350.6	351.9	353.3	354.6	355.9	356.5	356.2	356.0	355.8	355.5	355.5
110°	399.4	400.2	401.1	402.0	402.8	403.3	403.3	403.3	403.3	403.3	403.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	446.0	446.7	447.3	447.9	448.6	449.2	449.9	450.6	451.3	452.0	452.2
115°	518.7	519.5	520.4	521.3	522.1	522.7	523.0	523.3	523.6	523.8	524.4
117.5°	587.9	588.8	589.6	590.5	591.4	592.1	592.8	593.5	594.2	594.9	596.5
120°	636.7	637.5	638.4	639.2	640.1	640.5	640.5	640.5	640.5	640.5	642.8
122.5°	684.4	685.0	685.6	686.3	686.9	687.6	688.3	689.0	689.6	690.3	691.9
125°	757.2	757.5	757.8	758.1	758.4	759.0	759.8	760.7	761.6	762.4	763.3
127.5°	823.6	824.6	825.5	826.4	827.3	828.3	829.3	830.4	831.4	832.4	833.5
130°	871.3	872.5	873.7	874.8	876.0	876.8	877.4	878.0	878.5	879.1	879.7
132.5°	917.0	917.9	918.8	919.8	920.7	921.8	923.0	924.3	925.6	926.8	926.7
135°	988.0	988.9	989.8	990.6	991.5	992.1	992.4	992.7	992.9	993.2	992.7
137.5°	1052.4	1053.5	1054.7	1055.8	1057.0	1057.7	1057.9	1058.1	1058.4	1058.6	1057.8
140°	1097.0	1098.1	1099.3	1100.4	1101.6	1102.1	1102.1	1102.1	1102.1	1102.1	1100.7
142.5°	1137.4	1138.6	1139.7	1140.9	1142.0	1142.5	1142.3	1142.0	1141.8	1141.6	1140.6
145°	1198.1	1199.3	1200.4	1201.6	1202.7	1203.1	1202.9	1202.6	1202.3	1202.0	1200.3
147.5°	1252.3	1253.4	1254.5	1255.6	1256.7	1256.9	1256.3	1255.6	1255.0	1254.4	1253.2
150°	1287.6	1288.4	1289.3	1290.2	1291.0	1291.0	1290.2	1289.3	1288.4	1287.6	1286.4
152.5°	1320.8	1321.9	1323.0	1324.0	1325.1	1325.1	1324.0	1323.0	1321.9	1320.8	1319.4
155°	1365.4	1366.2	1367.1	1368.0	1368.8	1368.5	1367.1	1365.7	1364.2	1362.8	1361.9
157.5°	1403.7	1405.1	1406.5	1407.9	1409.3	1409.0	1407.0	1405.1	1403.1	1401.2	1400.6
160°	1427.6	1428.8	1429.9	1431.1	1432.2	1431.9	1430.2	1428.5	1426.7	1425.0	1424.7
162.5°	1448.4	1449.7	1451.1	1452.5	1453.9	1453.6	1451.6	1449.7	1447.7	1445.8	1445.5
165°	1475.6	1477.0	1478.5	1479.9	1481.3	1481.1	1479.0	1477.0	1475.0	1473.0	1473.0
167.5°	1497.9	1499.4	1500.9	1502.4	1503.9	1503.6	1501.6	1499.6	1497.6	1495.5	1495.6
170°	1509.3	1511.0	1512.8	1514.5	1516.2	1516.1	1514.0	1512.0	1510.0	1508.0	1508.3
172.5°	1518.6	1520.4	1522.1	1523.8	1525.5	1525.4	1523.4	1521.4	1519.4	1517.3	1517.6
175°	1528.7	1530.5	1532.2	1533.9	1535.7	1535.5	1533.5	1531.5	1529.5	1527.4	1528.0
177.5°	1533.4	1534.8	1536.2	1537.6	1538.9	1538.9	1537.6	1536.2	1534.8	1533.4	1533.9
180°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	669.4	667.9	666.6	663.4	661.7	658.1	657.6	657.4	652.7	648.1	646.8
5°	692.4	688.7	683.3	676.9	670.3	663.5	659.0	655.3	646.2	637.6	632.6
7.5°	715.5	707.7	698.3	686.3	676.2	665.0	656.6	649.1	636.2	623.8	615.5
10°	732.8	720.1	707.6	691.0	678.0	665.3	653.5	643.3	628.8	612.4	600.8
12.5°	743.5	729.5	712.3	696.1	679.3	663.1	647.3	634.2	617.1	600.2	586.5
15°	758.0	743.0	722.1	698.9	677.4	656.2	638.1	621.7	599.5	579.2	562.4
17.5°	769.9	749.2	726.8	700.0	675.0	648.2	624.8	603.9	579.1	554.7	534.9
20°	773.7	753.2	727.3	700.5	671.0	639.4	614.2	591.5	564.9	538.3	515.6
22.5°	771.3	755.4	726.6	694.5	664.3	631.3	602.8	576.4	546.9	519.8	493.5
25°	755.3	749.8	722.6	687.6	653.1	614.7	581.7	552.9	519.3	490.2	461.6
27.5°	717.9	729.7	712.8	675.5	637.1	596.0	558.9	526.1	491.2	458.5	430.0
30°	681.9	708.9	701.7	667.1	624.2	583.8	542.2	507.9	470.7	437.0	408.9
32.5°	632.7	677.3	684.4	655.5	611.1	566.7	523.1	489.0	450.1	414.7	387.2
35°	554.2	621.0	651.7	633.3	588.8	540.8	495.9	456.1	417.0	382.1	354.8
37.5°	460.7	551.7	602.8	604.1	563.2	513.4	464.4	424.9	384.9	350.6	321.1
40°	400.0	498.6	565.2	579.9	545.4	491.6	442.0	401.8	362.8	329.1	295.3
42.5°	345.5	443.7	525.5	551.2	523.8	470.3	420.6	378.6	340.6	308.8	274.2
45°	279.4	365.3	455.4	501.3	486.1	436.6	384.1	344.1	308.5	281.0	247.8
47.5°	235.7	296.2	383.5	445.5	445.3	400.1	348.4	310.2	277.1	251.3	224.5
50°	210.8	263.5	337.3	407.7	413.6	375.7	326.6	288.7	257.8	230.8	209.2
52.5°	188.4	231.9	298.2	365.8	382.6	349.7	302.1	267.1	237.1	212.2	193.8
55°	159.2	192.9	243.3	306.4	331.9	308.7	266.4	233.7	209.4	188.5	172.6
57.5°	134.7	159.9	200.4	251.2	280.8	266.3	231.4	204.8	184.0	165.1	152.6
60°	119.3	139.9	174.2	216.7	249.4	239.2	209.4	184.7	167.0	150.6	138.8
62.5°	104.7	122.5	151.9	186.4	216.3	212.1	187.8	167.0	151.5	136.6	126.6
65°	84.3	97.2	120.2	147.2	171.3	173.3	155.8	141.7	127.9	116.1	107.2
67.5°	67.1	75.6	91.7	114.5	132.5	139.0	128.3	117.5	106.5	97.4	89.7
70°	56.6	63.4	75.2	93.6	110.2	117.0	110.8	102.4	92.9	85.4	78.8
72.5°	45.8	52.5	61.2	74.7	88.9	96.3	94.1	88.1	80.4	74.1	67.9
75°	34.5	36.6	42.5	51.6	62.7	69.1	70.6	67.5	61.3	56.6	52.9
77.5°	25.5	26.8	29.6	34.3	41.6	47.3	49.6	49.2	45.0	42.3	38.8
80°	20.4	21.1	22.5	24.5	30.0	35.7	37.3	37.3	34.3	33.2	29.8
82.5°	15.5	16.0	16.9	18.0	20.5	25.5	27.3	27.6	25.8	24.3	21.6
85°	8.9	8.6	9.1	9.8	10.2	11.6	14.3	14.8	14.3	12.5	11.8
87.5°	9.6	8.5	7.3	6.1	5.6	5.1	5.3	5.5	5.5	5.6	6.0
90°	32.7	26.4	20.0	15.1	11.7	8.2	4.8	1.3	4.8	8.2	11.7
92.5°	38.2	36.7	35.2	33.2	30.7	28.2	25.6	23.1	25.6	28.2	30.7
95°	81.8	81.3	80.7	79.0	76.1	73.2	70.3	67.4	70.3	73.2	76.1
97.5°	137.3	136.2	135.1	133.3	130.8	128.3	125.7	123.2	125.7	128.3	130.8
100°	177.2	176.3	175.5	173.9	171.6	169.3	167.0	164.7	167.0	169.3	171.6
102.5°	219.3	218.2	217.1	215.6	213.8	211.9	210.1	208.2	210.1	211.9	213.8
105°	284.1	283.5	283.0	282.2	281.4	280.5	279.6	278.8	279.6	280.5	281.4
107.5°	355.5	355.5	355.5	354.9	353.6	352.4	351.1	349.8	351.1	352.4	353.6
110°	403.3	403.3	403.3	402.4	400.7	398.9	397.2	395.5	397.2	398.9	400.7



TEST NUMBER: P331778

CATALOG NUMBER: S122RDIW-S290D1240U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	452.5	452.7	452.9	452.2	450.5	448.7	447.0	445.3	447.0	448.7	450.5
115°	525.0	525.6	526.1	525.6	523.8	522.1	520.4	518.7	520.4	522.1	523.8
117.5°	598.1	599.7	601.4	601.0	598.7	596.4	594.1	591.8	594.1	596.4	598.7
120°	645.2	647.5	649.8	649.8	647.5	645.2	642.8	640.5	642.8	645.2	647.5
122.5°	693.6	695.2	696.8	696.2	693.4	690.7	687.9	685.1	687.9	690.7	693.4
125°	764.2	765.0	765.9	765.0	762.4	759.8	757.2	754.6	757.2	759.8	762.4
127.5°	834.5	835.6	836.6	835.5	832.2	828.9	825.6	822.3	825.6	828.9	832.2
130°	880.3	880.9	881.4	879.8	876.1	872.4	868.6	864.9	868.6	872.4	876.1
132.5°	926.6	926.5	926.4	924.8	921.7	918.7	915.6	912.6	915.6	918.7	921.7
135°	992.1	991.5	990.9	989.1	985.9	982.7	979.5	976.4	979.5	982.7	985.9
137.5°	1057.1	1056.3	1055.6	1053.9	1051.3	1048.7	1046.1	1043.5	1046.1	1048.7	1051.3
140°	1099.3	1097.8	1096.4	1094.4	1091.8	1089.2	1086.6	1084.0	1086.6	1089.2	1091.8
142.5°	1139.6	1138.6	1137.6	1135.9	1133.3	1130.7	1128.1	1125.5	1128.1	1130.7	1133.3
145°	1198.5	1196.8	1195.1	1193.2	1191.2	1189.2	1187.2	1185.1	1187.2	1189.2	1191.2
147.5°	1252.1	1250.9	1249.8	1248.0	1245.6	1243.1	1240.7	1238.3	1240.7	1243.1	1245.6
150°	1285.3	1284.1	1283.0	1281.5	1279.8	1278.1	1276.3	1274.6	1276.3	1278.1	1279.8
152.5°	1318.0	1316.6	1315.2	1313.7	1311.9	1310.2	1308.5	1306.8	1308.5	1310.2	1311.9
155°	1361.0	1360.2	1359.3	1358.5	1357.6	1356.7	1355.9	1355.0	1355.9	1356.7	1357.6
157.5°	1400.1	1399.6	1399.1	1398.5	1398.0	1397.4	1396.8	1396.2	1396.8	1397.4	1398.0
160°	1424.4	1424.1	1423.9	1423.4	1422.9	1422.3	1421.7	1421.1	1421.7	1422.3	1422.9
162.5°	1445.2	1444.9	1444.6	1444.4	1444.3	1444.2	1444.1	1443.9	1444.1	1444.2	1444.3
165°	1473.0	1473.0	1473.0	1473.1	1473.4	1473.7	1474.0	1474.3	1474.0	1473.7	1473.4
167.5°	1495.7	1495.7	1495.8	1496.2	1497.1	1498.0	1498.8	1499.7	1498.8	1498.0	1497.1
170°	1508.6	1508.9	1509.2	1509.7	1510.6	1511.5	1512.3	1513.2	1512.3	1511.5	1510.6
172.5°	1517.9	1518.2	1518.5	1519.1	1519.9	1520.8	1521.7	1522.5	1521.7	1520.8	1519.9
175°	1528.6	1529.2	1529.8	1530.5	1531.3	1532.2	1533.1	1533.9	1533.1	1532.2	1531.3
177.5°	1534.3	1534.8	1535.3	1535.8	1536.5	1537.2	1537.9	1538.6	1537.9	1537.2	1536.5
180°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5



TEST NUMBER: P331778

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	644.5	643.2	640.8	637.2	635.0	631.2	628.7	630.1	630.5	630.1	629.8
5°	627.2	622.4	615.8	609.4	603.5	597.2	593.5	592.0	588.8	587.0	586.0
7.5°	606.2	598.0	588.7	577.6	568.2	558.3	553.3	550.8	544.3	540.8	537.7
10°	590.6	577.6	568.3	553.8	544.9	532.0	523.1	523.4	514.5	509.5	505.9
12.5°	573.3	559.1	543.6	530.5	518.2	507.8	497.1	492.8	483.4	478.6	468.8
15°	544.7	528.1	511.8	494.1	481.6	465.4	450.0	431.1	415.9	402.7	399.1
17.5°	513.5	492.9	476.5	455.7	434.3	407.2	389.3	378.3	369.2	362.2	357.0
20°	492.0	471.1	453.6	422.3	393.4	375.0	361.9	353.4	343.9	336.4	332.3
22.5°	469.5	447.7	423.8	388.8	366.3	351.6	339.9	330.2	323.7	317.9	314.1
25°	437.5	413.6	374.3	350.3	332.1	316.6	308.5	302.6	295.8	287.8	284.2
27.5°	403.7	365.8	337.5	319.6	302.3	292.3	284.9	276.1	270.0	266.4	262.6
30°	378.4	340.5	318.5	298.9	286.7	275.5	266.9	261.9	256.0	249.9	247.4
32.5°	350.3	320.0	298.8	282.6	270.1	260.6	253.8	245.7	241.5	237.7	232.5
35°	315.3	292.3	273.0	259.9	248.0	240.3	232.4	227.6	219.9	216.7	214.7
37.5°	285.7	265.8	251.4	237.5	228.1	219.6	214.7	207.1	203.8	199.3	195.0
40°	268.9	249.4	235.6	224.2	213.7	207.4	201.3	195.1	190.1	188.1	182.9
42.5°	251.9	236.0	222.1	209.7	202.7	195.9	188.2	183.7	178.5	175.2	172.0
45°	228.3	214.2	202.4	192.2	184.4	177.4	172.4	164.9	162.0	155.4	152.6
47.5°	207.6	194.5	183.2	173.5	166.0	161.4	154.1	148.2	143.5	139.4	135.9
50°	192.9	181.9	171.0	162.4	155.6	149.0	141.5	138.6	131.3	129.2	127.2
52.5°	179.4	169.0	159.1	150.6	143.8	137.4	130.8	126.9	122.0	120.0	118.5
55°	160.6	150.6	141.1	133.6	126.8	120.2	116.1	111.3	109.0	107.4	105.6
57.5°	141.7	132.7	125.4	117.8	110.9	105.7	101.0	98.1	95.8	93.7	91.5
60°	129.7	121.1	114.5	107.4	100.4	96.1	92.5	89.0	86.3	83.1	82.2
62.5°	117.0	109.4	103.4	96.5	90.4	86.5	83.0	79.8	76.5	71.9	70.6
65°	99.5	93.6	87.2	81.5	76.1	72.2	67.2	63.6	62.2	61.8	61.6
67.5°	83.7	78.1	72.6	66.8	61.9	58.3	55.7	55.2	54.2	54.0	53.3
70°	73.1	67.9	62.5	57.0	52.2	51.6	50.7	49.7	48.6	48.2	47.7
72.5°	63.7	58.3	52.8	48.5	46.4	45.6	44.7	43.7	43.0	42.5	42.3
75°	48.8	43.8	40.2	38.6	37.5	36.8	35.4	34.8	34.3	33.6	33.4
77.5°	35.2	32.3	30.7	29.7	28.5	27.8	27.0	26.3	25.8	25.7	25.3
80°	26.8	25.4	24.3	22.9	22.5	21.6	21.4	20.7	20.9	20.2	20.2
82.5°	20.8	19.1	18.1	17.5	17.0	16.3	16.1	15.8	15.8	15.3	15.3
85°	10.7	10.2	9.8	9.3	9.3	8.6	8.9	8.6	8.6	8.2	8.0
87.5°	6.5	7.3	8.2	9.4	10.7	11.8	11.7	11.4	11.3	11.2	10.9
90°	15.1	20.0	26.4	32.7	39.0	45.4	44.8	44.2	43.7	43.1	42.9
92.5°	33.2	35.2	36.7	38.2	39.7	41.2	41.3	41.5	41.6	41.7	41.8
95°	79.0	80.7	81.3	81.8	82.4	83.0	83.0	83.0	83.0	83.0	82.7
97.5°	133.3	135.1	136.2	137.3	138.4	139.5	139.5	139.5	139.5	139.5	139.5
100°	173.9	175.5	176.3	177.2	178.1	178.9	178.9	178.9	178.9	178.9	178.8
102.5°	215.6	217.1	218.2	219.3	220.4	221.5	221.7	221.9	222.2	222.4	222.4
105°	282.2	283.0	283.5	284.1	284.7	285.3	285.8	286.4	287.0	287.6	287.9
107.5°	354.9	355.5	355.5	355.5	355.5	355.5	355.8	356.0	356.2	356.5	355.9
110°	402.4	403.3	403.3	403.3	403.3	403.3	403.3	403.3	403.3	403.3	402.8



TEST NUMBER: P331778

CATALOG NUMBER: S122RDIW-S290D1240U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	452.2	452.9	452.7	452.5	452.2	452.0	451.3	450.6	449.9	449.2	448.6
115°	525.6	526.1	525.6	525.0	524.4	523.8	523.6	523.3	523.0	522.7	522.1
117.5°	601.0	601.4	599.7	598.1	596.5	594.9	594.2	593.5	592.8	592.1	591.4
120°	649.8	649.8	647.5	645.2	642.8	640.5	640.5	640.5	640.5	640.5	640.1
122.5°	696.2	696.8	695.2	693.6	691.9	690.3	689.6	689.0	688.3	687.6	686.9
125°	765.0	765.9	765.0	764.2	763.3	762.4	761.6	760.7	759.8	759.0	758.4
127.5°	835.5	836.6	835.6	834.5	833.5	832.4	831.4	830.4	829.3	828.3	827.3
130°	879.8	881.4	880.9	880.3	879.7	879.1	878.5	878.0	877.4	876.8	876.0
132.5°	924.8	926.4	926.5	926.6	926.7	926.8	925.6	924.3	923.0	921.8	920.7
135°	989.1	990.9	991.5	992.1	992.7	993.2	992.9	992.7	992.4	992.1	991.5
137.5°	1053.9	1055.6	1056.3	1057.1	1057.8	1058.6	1058.4	1058.1	1057.9	1057.7	1057.0
140°	1094.4	1096.4	1097.8	1099.3	1100.7	1102.1	1102.1	1102.1	1102.1	1102.1	1101.6
142.5°	1135.9	1137.6	1138.6	1139.6	1140.6	1141.6	1141.8	1142.0	1142.3	1142.5	1142.0
145°	1193.2	1195.1	1196.8	1198.5	1200.3	1202.0	1202.3	1202.6	1202.9	1203.1	1202.7
147.5°	1248.0	1249.8	1250.9	1252.1	1253.2	1254.4	1255.0	1255.6	1256.3	1256.9	1256.7
150°	1281.5	1283.0	1284.1	1285.3	1286.4	1287.6	1288.4	1289.3	1290.2	1291.0	1291.0
152.5°	1313.7	1315.2	1316.6	1318.0	1319.4	1320.8	1321.9	1323.0	1324.0	1325.1	1325.1
155°	1358.5	1359.3	1360.2	1361.0	1361.9	1362.8	1364.2	1365.7	1367.1	1368.5	1368.8
157.5°	1398.5	1399.1	1399.6	1400.1	1400.6	1401.2	1403.1	1405.1	1407.0	1409.0	1409.3
160°	1423.4	1423.9	1424.1	1424.4	1424.7	1425.0	1426.7	1428.5	1430.2	1431.9	1432.2
162.5°	1444.4	1444.6	1444.9	1445.2	1445.5	1445.8	1447.7	1449.7	1451.6	1453.6	1453.9
165°	1473.1	1473.0	1473.0	1473.0	1473.0	1473.0	1475.0	1477.0	1479.0	1481.1	1481.3
167.5°	1496.2	1495.8	1495.7	1495.7	1495.6	1495.5	1497.6	1499.6	1501.6	1503.6	1503.9
170°	1509.7	1509.2	1508.9	1508.6	1508.3	1508.0	1510.0	1512.0	1514.0	1516.1	1516.2
172.5°	1519.1	1518.5	1518.2	1517.9	1517.6	1517.3	1519.4	1521.4	1523.4	1525.4	1525.5
175°	1530.5	1529.8	1529.2	1528.6	1528.0	1527.4	1529.5	1531.5	1533.5	1535.5	1535.7
177.5°	1535.8	1535.3	1534.8	1534.3	1533.9	1533.4	1534.8	1536.2	1537.6	1538.9	1538.9
180°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5



TEST NUMBER: P331778

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	627.8	628.1	627.6	627.9	627.6	628.1	627.8	629.8	630.1	630.5	630.1
5°	584.9	582.2	581.7	581.1	581.7	582.2	584.9	586.0	587.0	588.8	592.0
7.5°	533.8	533.4	532.2	530.6	532.2	533.4	533.8	537.7	540.8	544.3	550.8
10°	500.9	499.7	499.5	497.9	499.5	499.7	500.9	505.9	509.5	514.5	523.4
12.5°	462.3	455.0	454.3	450.3	454.3	455.0	462.3	468.8	478.6	483.4	492.8
15°	393.7	392.3	387.7	384.8	387.7	392.3	393.7	399.1	402.7	415.9	431.1
17.5°	354.4	349.9	348.5	347.9	348.5	349.9	354.4	357.0	362.2	369.2	378.3
20°	329.1	325.1	324.4	323.9	324.4	325.1	329.1	332.3	336.4	343.9	353.4
22.5°	311.7	307.4	305.7	304.3	305.7	307.4	311.7	314.1	317.9	323.7	330.2
25°	281.9	280.3	279.4	278.9	279.4	280.3	281.9	284.2	287.8	295.8	302.6
27.5°	258.6	255.1	254.4	253.2	254.4	255.1	258.6	262.6	266.4	270.0	276.1
30°	245.3	244.2	242.6	241.2	242.6	244.2	245.3	247.4	249.9	256.0	261.9
32.5°	229.7	228.7	227.3	226.7	227.3	228.7	229.7	232.5	237.7	241.5	245.7
35°	212.4	209.2	207.8	205.8	207.8	209.2	212.4	214.7	216.7	219.9	227.6
37.5°	194.1	192.4	190.5	191.2	190.5	192.4	194.1	195.0	199.3	203.8	207.1
40°	179.9	178.8	178.3	178.1	178.3	178.8	179.9	182.9	188.1	190.1	195.1
42.5°	168.6	165.5	164.3	164.3	164.3	165.5	168.6	172.0	175.2	178.5	183.7
45°	151.5	148.6	146.5	146.7	146.5	148.6	151.5	152.6	155.4	162.0	164.9
47.5°	134.0	133.9	132.6	133.0	132.6	133.9	134.0	135.9	139.4	143.5	148.2
50°	125.6	124.3	123.3	123.6	123.3	124.3	125.6	127.2	129.2	131.3	138.6
52.5°	117.6	116.4	115.7	116.7	115.7	116.4	117.6	118.5	120.0	122.0	126.9
55°	104.5	103.1	102.9	102.7	102.9	103.1	104.5	105.6	107.4	109.0	111.3
57.5°	89.8	88.9	87.5	87.0	87.5	88.9	89.8	91.5	93.7	95.8	98.1
60°	79.3	77.5	75.2	75.0	75.2	77.5	79.3	82.2	83.1	86.3	89.0
62.5°	69.6	69.3	68.8	68.8	68.8	69.3	69.6	70.6	71.9	76.5	79.8
65°	61.1	60.9	61.1	61.3	61.1	60.9	61.1	61.6	61.8	62.2	63.6
67.5°	53.2	52.8	52.4	52.6	52.4	52.8	53.2	53.3	54.0	54.2	55.2
70°	47.2	47.0	46.8	46.8	46.8	47.0	47.2	47.7	48.2	48.6	49.7
72.5°	41.4	41.4	41.2	41.0	41.2	41.4	41.4	42.3	42.5	43.0	43.7
75°	33.2	32.7	32.7	32.7	32.7	32.7	33.2	33.4	33.6	34.3	34.8
77.5°	25.3	25.0	24.8	24.6	24.8	25.0	25.3	25.3	25.7	25.8	26.3
80°	20.0	19.8	19.5	19.5	19.5	19.8	20.0	20.2	20.2	20.9	20.7
82.5°	15.3	15.0	15.0	14.8	15.0	15.0	15.3	15.3	15.3	15.8	15.8
85°	8.2	8.4	8.2	8.6	8.2	8.4	8.2	8.0	8.2	8.6	8.6
87.5°	11.0	10.9	11.1	11.0	11.1	10.9	11.0	10.9	11.2	11.3	11.4
90°	43.2	43.5	43.8	44.1	43.8	43.5	43.2	42.9	43.1	43.7	44.2
92.5°	41.8	41.9	42.0	42.0	42.0	41.9	41.8	41.8	41.7	41.6	41.5
95°	82.1	81.5	81.0	80.4	81.0	81.5	82.1	82.7	83.0	83.0	83.0
97.5°	139.4	139.4	139.3	139.3	139.3	139.4	139.4	139.5	139.5	139.5	139.5
100°	178.5	178.2	177.9	177.6	177.9	178.2	178.5	178.8	178.9	178.9	178.9
102.5°	222.1	221.8	221.5	221.2	221.5	221.8	222.1	222.4	222.4	222.2	221.9
105°	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.6	287.0	286.4
107.5°	354.6	353.3	351.9	350.6	351.9	353.3	354.6	355.9	356.5	356.2	356.0
110°	402.0	401.1	400.2	399.4	400.2	401.1	402.0	402.8	403.3	403.3	403.3



TEST NUMBER: P331778

CATALOG NUMBER: S122RDIW-S290D1240U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	447.9	447.3	446.7	446.0	446.7	447.3	447.9	448.6	449.2	449.9	450.6
115°	521.3	520.4	519.5	518.7	519.5	520.4	521.3	522.1	522.7	523.0	523.3
117.5°	590.5	589.6	588.8	587.9	588.8	589.6	590.5	591.4	592.1	592.8	593.5
120°	639.2	638.4	637.5	636.7	637.5	638.4	639.2	640.1	640.5	640.5	640.5
122.5°	686.3	685.6	685.0	684.4	685.0	685.6	686.3	686.9	687.6	688.3	689.0
125°	758.1	757.8	757.5	757.2	757.5	757.8	758.1	758.4	759.0	759.8	760.7
127.5°	826.4	825.5	824.6	823.6	824.6	825.5	826.4	827.3	828.3	829.3	830.4
130°	874.8	873.7	872.5	871.3	872.5	873.7	874.8	876.0	876.8	877.4	878.0
132.5°	919.8	918.8	917.9	917.0	917.9	918.8	919.8	920.7	921.8	923.0	924.3
135°	990.6	989.8	988.9	988.0	988.9	989.8	990.6	991.5	992.1	992.4	992.7
137.5°	1055.8	1054.7	1053.5	1052.4	1053.5	1054.7	1055.8	1057.0	1057.7	1057.9	1058.1
140°	1100.4	1099.3	1098.1	1097.0	1098.1	1099.3	1100.4	1101.6	1102.1	1102.1	1102.1
142.5°	1140.9	1139.7	1138.6	1137.4	1138.6	1139.7	1140.9	1142.0	1142.5	1142.3	1142.0
145°	1201.6	1200.4	1199.3	1198.1	1199.3	1200.4	1201.6	1202.7	1203.1	1202.9	1202.6
147.5°	1255.6	1254.5	1253.4	1252.3	1253.4	1254.5	1255.6	1256.7	1256.9	1256.3	1255.6
150°	1290.2	1289.3	1288.4	1287.6	1288.4	1289.3	1290.2	1291.0	1291.0	1290.2	1289.3
152.5°	1324.0	1323.0	1321.9	1320.8	1321.9	1323.0	1324.0	1325.1	1325.1	1324.0	1323.0
155°	1368.0	1367.1	1366.2	1365.4	1366.2	1367.1	1368.0	1368.8	1368.5	1367.1	1365.7
157.5°	1407.9	1406.5	1405.1	1403.7	1405.1	1406.5	1407.9	1409.3	1409.0	1407.0	1405.1
160°	1431.1	1429.9	1428.8	1427.6	1428.8	1429.9	1431.1	1432.2	1431.9	1430.2	1428.5
162.5°	1452.5	1451.1	1449.7	1448.4	1449.7	1451.1	1452.5	1453.9	1453.6	1451.6	1449.7
165°	1479.9	1478.5	1477.0	1475.6	1477.0	1478.5	1479.9	1481.3	1481.1	1479.0	1477.0
167.5°	1502.4	1500.9	1499.4	1497.9	1499.4	1500.9	1502.4	1503.9	1503.6	1501.6	1499.6
170°	1514.5	1512.8	1511.0	1509.3	1511.0	1512.8	1514.5	1516.2	1516.1	1514.0	1512.0
172.5°	1523.8	1522.1	1520.4	1518.6	1520.4	1522.1	1523.8	1525.5	1525.4	1523.4	1521.4
175°	1533.9	1532.2	1530.5	1528.7	1530.5	1532.2	1533.9	1535.7	1535.5	1533.5	1531.5
177.5°	1537.6	1536.2	1534.8	1533.4	1534.8	1536.2	1537.6	1538.9	1538.9	1537.6	1536.2
180°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5



TEST NUMBER: P331778

CATALOG NUMBER: S122RDIW-S290D1240U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	628.7	631.2	635.0	637.2	640.8	643.2	644.5	646.8	648.1	652.7	657.4
5°	593.5	597.2	603.5	609.4	615.8	622.4	627.2	632.6	637.6	646.2	655.3
7.5°	553.3	558.3	568.2	577.6	588.7	598.0	606.2	615.5	623.8	636.2	649.1
10°	523.1	532.0	544.9	553.8	568.3	577.6	590.6	600.8	612.4	628.8	643.3
12.5°	497.1	507.8	518.2	530.5	543.6	559.1	573.3	586.5	600.2	617.1	634.2
15°	450.0	465.4	481.6	494.1	511.8	528.1	544.7	562.4	579.2	599.5	621.7
17.5°	389.3	407.2	434.3	455.7	476.5	492.9	513.5	534.9	554.7	579.1	603.9
20°	361.9	375.0	393.4	422.3	453.6	471.1	492.0	515.6	538.3	564.9	591.5
22.5°	339.9	351.6	366.3	388.8	423.8	447.7	469.5	493.5	519.8	546.9	576.4
25°	308.5	316.6	332.1	350.3	374.3	413.6	437.5	461.6	490.2	519.3	552.9
27.5°	284.9	292.3	302.3	319.6	337.5	365.8	403.7	430.0	458.5	491.2	526.1
30°	266.9	275.5	286.7	298.9	318.5	340.5	378.4	408.9	437.0	470.7	507.9
32.5°	253.8	260.6	270.1	282.6	298.8	320.0	350.3	387.2	414.7	450.1	489.0
35°	232.4	240.3	248.0	259.9	273.0	292.3	315.3	354.8	382.1	417.0	456.1
37.5°	214.7	219.6	228.1	237.5	251.4	265.8	285.7	321.1	350.6	384.9	424.9
40°	201.3	207.4	213.7	224.2	235.6	249.4	268.9	295.3	329.1	362.8	401.8
42.5°	188.2	195.9	202.7	209.7	222.1	236.0	251.9	274.2	308.8	340.6	378.6
45°	172.4	177.4	184.4	192.2	202.4	214.2	228.3	247.8	281.0	308.5	344.1
47.5°	154.1	161.4	166.0	173.5	183.2	194.5	207.6	224.5	251.3	277.1	310.2
50°	141.5	149.0	155.6	162.4	171.0	181.9	192.9	209.2	230.8	257.8	288.7
52.5°	130.8	137.4	143.8	150.6	159.1	169.0	179.4	193.8	212.2	237.1	267.1
55°	116.1	120.2	126.8	133.6	141.1	150.6	160.6	172.6	188.5	209.4	233.7
57.5°	101.0	105.7	110.9	117.8	125.4	132.7	141.7	152.6	165.1	184.0	204.8
60°	92.5	96.1	100.4	107.4	114.5	121.1	129.7	138.8	150.6	167.0	184.7
62.5°	83.0	86.5	90.4	96.5	103.4	109.4	117.0	126.6	136.6	151.5	167.0
65°	67.2	72.2	76.1	81.5	87.2	93.6	99.5	107.2	116.1	127.9	141.7
67.5°	55.7	58.3	61.9	66.8	72.6	78.1	83.7	89.7	97.4	106.5	117.5
70°	50.7	51.6	52.2	57.0	62.5	67.9	73.1	78.8	85.4	92.9	102.4
72.5°	44.7	45.6	46.4	48.5	52.8	58.3	63.7	67.9	74.1	80.4	88.1
75°	35.4	36.8	37.5	38.6	40.2	43.8	48.8	52.9	56.6	61.3	67.5
77.5°	27.0	27.8	28.5	29.7	30.7	32.3	35.2	38.8	42.3	45.0	49.2
80°	21.4	21.6	22.5	22.9	24.3	25.4	26.8	29.8	33.2	34.3	37.3
82.5°	16.1	16.3	17.0	17.5	18.1	19.1	20.8	21.6	24.3	25.8	27.6
85°	8.9	8.6	9.3	9.3	9.8	10.2	10.7	11.8	12.5	14.3	14.8
87.5°	11.7	11.8	10.7	9.4	8.2	7.3	6.5	6.0	5.6	5.5	5.5
90°	44.8	45.4	39.0	32.7	26.4	20.0	15.1	11.7	8.2	4.8	1.3
92.5°	41.3	41.2	39.7	38.2	36.7	35.2	33.2	30.7	28.2	25.6	23.1
95°	83.0	83.0	82.4	81.8	81.3	80.7	79.0	76.1	73.2	70.3	67.4
97.5°	139.5	139.5	138.4	137.3	136.2	135.1	133.3	130.8	128.3	125.7	123.2
100°	178.9	178.9	178.1	177.2	176.3	175.5	173.9	171.6	169.3	167.0	164.7
102.5°	221.7	221.5	220.4	219.3	218.2	217.1	215.6	213.8	211.9	210.1	208.2
105°	285.8	285.3	284.7	284.1	283.5	283.0	282.2	281.4	280.5	279.6	278.8
107.5°	355.8	355.5	355.5	355.5	355.5	355.5	354.9	353.6	352.4	351.1	349.8
110°	403.3	403.3	403.3	403.3	403.3	403.3	402.4	400.7	398.9	397.2	395.5



TEST NUMBER: P331778

CATALOG NUMBER: S122RDIW-S290D1240U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	451.3	452.0	452.2	452.5	452.7	452.9	452.2	450.5	448.7	447.0	445.3
115°	523.6	523.8	524.4	525.0	525.6	526.1	525.6	523.8	522.1	520.4	518.7
117.5°	594.2	594.9	596.5	598.1	599.7	601.4	601.0	598.7	596.4	594.1	591.8
120°	640.5	640.5	642.8	645.2	647.5	649.8	649.8	647.5	645.2	642.8	640.5
122.5°	689.6	690.3	691.9	693.6	695.2	696.8	696.2	693.4	690.7	687.9	685.1
125°	761.6	762.4	763.3	764.2	765.0	765.9	765.0	762.4	759.8	757.2	754.6
127.5°	831.4	832.4	833.5	834.5	835.6	836.6	835.5	832.2	828.9	825.6	822.3
130°	878.5	879.1	879.7	880.3	880.9	881.4	879.8	876.1	872.4	868.6	864.9
132.5°	925.6	926.8	926.7	926.6	926.5	926.4	924.8	921.7	918.7	915.6	912.6
135°	992.9	993.2	992.7	992.1	991.5	990.9	989.1	985.9	982.7	979.5	976.4
137.5°	1058.4	1058.6	1057.8	1057.1	1056.3	1055.6	1053.9	1051.3	1048.7	1046.1	1043.5
140°	1102.1	1102.1	1100.7	1099.3	1097.8	1096.4	1094.4	1091.8	1089.2	1086.6	1084.0
142.5°	1141.8	1141.6	1140.6	1139.6	1138.6	1137.6	1135.9	1133.3	1130.7	1128.1	1125.5
145°	1202.3	1202.0	1200.3	1198.5	1196.8	1195.1	1193.2	1191.2	1189.2	1187.2	1185.1
147.5°	1255.0	1254.4	1253.2	1252.1	1250.9	1249.8	1248.0	1245.6	1243.1	1240.7	1238.3
150°	1288.4	1287.6	1286.4	1285.3	1284.1	1283.0	1281.5	1279.8	1278.1	1276.3	1274.6
152.5°	1321.9	1320.8	1319.4	1318.0	1316.6	1315.2	1313.7	1311.9	1310.2	1308.5	1306.8
155°	1364.2	1362.8	1361.9	1361.0	1360.2	1359.3	1358.5	1357.6	1356.7	1355.9	1355.0
157.5°	1403.1	1401.2	1400.6	1400.1	1399.6	1399.1	1398.5	1398.0	1397.4	1396.8	1396.2
160°	1426.7	1425.0	1424.7	1424.4	1424.1	1423.9	1423.4	1422.9	1422.3	1421.7	1421.1
162.5°	1447.7	1445.8	1445.5	1445.2	1444.9	1444.6	1444.4	1444.3	1444.2	1444.1	1443.9
165°	1475.0	1473.0	1473.0	1473.0	1473.0	1473.0	1473.1	1473.4	1473.7	1474.0	1474.3
167.5°	1497.6	1495.5	1495.6	1495.7	1495.7	1495.8	1496.2	1497.1	1498.0	1498.8	1499.7
170°	1510.0	1508.0	1508.3	1508.6	1508.9	1509.2	1509.7	1510.6	1511.5	1512.3	1513.2
172.5°	1519.4	1517.3	1517.6	1517.9	1518.2	1518.5	1519.1	1519.9	1520.8	1521.7	1522.5
175°	1529.5	1527.4	1528.0	1528.6	1529.2	1529.8	1530.5	1531.3	1532.2	1533.1	1533.9
177.5°	1534.8	1533.4	1533.9	1534.3	1534.8	1535.3	1535.8	1536.5	1537.2	1537.9	1538.6
180°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5



TEST NUMBER: P331778

CATALOG NUMBER: S122RDIW-S290D1240U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	657.6	658.1	661.7	663.4	666.6	667.9	669.4	669.0	669.0	669.7	674.8
5°	659.0	663.5	670.3	676.9	683.3	688.7	692.4	696.0	697.4	703.9	709.8
7.5°	656.6	665.0	676.2	686.3	698.3	707.7	715.5	722.6	727.4	737.0	746.8
10°	653.5	665.3	678.0	691.0	707.6	720.1	732.8	742.6	745.7	760.0	768.2
12.5°	647.3	663.1	679.3	696.1	712.3	729.5	743.5	753.3	764.5	777.3	792.4
15°	638.1	656.2	677.4	698.9	722.1	743.0	758.0	775.0	787.3	801.4	814.6
17.5°	624.8	648.2	675.0	700.0	726.8	749.2	769.9	786.2	794.8	802.9	804.8
20°	614.2	639.4	671.0	700.5	727.3	753.2	773.7	787.3	789.6	789.8	777.8
22.5°	602.8	631.3	664.3	694.5	726.6	755.4	771.3	777.1	768.1	752.7	729.4
25°	581.7	614.7	653.1	687.6	722.6	749.8	755.3	745.1	713.5	680.3	638.3
27.5°	558.9	596.0	637.1	675.5	712.8	729.7	717.9	681.0	624.2	574.7	514.8
30°	542.2	583.8	624.2	667.1	701.7	708.9	681.9	627.6	561.3	486.8	427.0
32.5°	523.1	566.7	611.1	655.5	684.4	677.3	632.7	565.8	488.1	414.8	358.4
35°	495.9	540.8	588.8	633.3	651.7	621.0	554.2	467.2	387.7	319.4	280.5
37.5°	464.4	513.4	563.2	604.1	602.8	551.7	460.7	370.9	304.1	263.6	236.0
40°	442.0	491.6	545.4	579.9	565.2	498.6	400.0	315.3	266.4	234.2	214.0
42.5°	420.6	470.3	523.8	551.2	525.5	443.7	345.5	279.1	238.8	213.7	197.3
45°	384.1	436.6	486.1	501.3	455.4	365.3	279.4	231.2	204.4	185.8	174.5
47.5°	348.4	400.1	445.3	445.5	383.5	296.2	235.7	200.1	177.2	162.8	154.6
50°	326.6	375.7	413.6	407.7	337.3	263.5	210.8	180.1	161.1	149.9	141.3
52.5°	302.1	349.7	382.6	365.8	298.2	231.9	188.4	162.7	146.9	137.2	129.5
55°	266.4	308.7	331.9	306.4	243.3	192.9	159.2	139.0	127.2	119.0	112.4
57.5°	231.4	266.3	280.8	251.2	200.4	159.9	134.7	119.5	107.8	101.9	98.5
60°	209.4	239.2	249.4	216.7	174.2	139.9	119.3	105.2	96.5	92.7	89.3
62.5°	187.8	212.1	216.3	186.4	151.9	122.5	104.7	92.8	87.1	83.4	80.2
65°	155.8	173.3	171.3	147.2	120.2	97.2	84.3	77.0	72.7	67.5	61.8
67.5°	128.3	139.0	132.5	114.5	91.7	75.6	67.1	61.6	56.2	51.3	50.0
70°	110.8	117.0	110.2	93.6	75.2	63.4	56.6	50.0	46.8	45.7	43.6
72.5°	94.1	96.3	88.9	74.7	61.2	52.5	45.8	42.2	40.4	39.5	38.2
75°	70.6	69.1	62.7	51.6	42.5	36.6	34.5	33.2	32.0	31.1	30.4
77.5°	49.6	47.3	41.6	34.3	29.6	26.8	25.5	24.8	24.3	23.8	23.1
80°	37.3	35.7	30.0	24.5	22.5	21.1	20.4	19.5	19.5	19.1	18.4
82.5°	27.3	25.5	20.5	18.0	16.9	16.0	15.5	15.0	14.8	14.9	14.4
85°	14.3	11.6	10.2	9.8	9.1	8.6	8.9	8.4	8.4	8.4	8.2
87.5°	5.3	5.1	5.6	6.1	7.3	8.5	9.6	10.9	12.3	12.1	12.1
90°	4.8	8.2	11.7	15.1	20.0	26.4	32.7	39.0	45.4	44.8	44.2
92.5°	25.6	28.2	30.7	33.2	35.2	36.7	38.2	39.7	41.2	41.3	41.5
95°	70.3	73.2	76.1	79.0	80.7	81.3	81.8	82.4	83.0	83.0	83.0
97.5°	125.7	128.3	130.8	133.3	135.1	136.2	137.3	138.4	139.5	139.5	139.5
100°	167.0	169.3	171.6	173.9	175.5	176.3	177.2	178.1	178.9	178.9	178.9
102.5°	210.1	211.9	213.8	215.6	217.1	218.2	219.3	220.4	221.5	221.7	221.9
105°	279.6	280.5	281.4	282.2	283.0	283.5	284.1	284.7	285.3	285.8	286.4
107.5°	351.1	352.4	353.6	354.9	355.5	355.5	355.5	355.5	355.5	355.8	356.0
110°	397.2	398.9	400.7	402.4	403.3	403.3	403.3	403.3	403.3	403.3	403.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	447.0	448.7	450.5	452.2	452.9	452.7	452.5	452.2	452.0	451.3	450.6
115°	520.4	522.1	523.8	525.6	526.1	525.6	525.0	524.4	523.8	523.6	523.3
117.5°	594.1	596.4	598.7	601.0	601.4	599.7	598.1	596.5	594.9	594.2	593.5
120°	642.8	645.2	647.5	649.8	649.8	647.5	645.2	642.8	640.5	640.5	640.5
122.5°	687.9	690.7	693.4	696.2	696.8	695.2	693.6	691.9	690.3	689.6	689.0
125°	757.2	759.8	762.4	765.0	765.9	765.0	764.2	763.3	762.4	761.6	760.7
127.5°	825.6	828.9	832.2	835.5	836.6	835.6	834.5	833.5	832.4	831.4	830.4
130°	868.6	872.4	876.1	879.8	881.4	880.9	880.3	879.7	879.1	878.5	878.0
132.5°	915.6	918.7	921.7	924.8	926.4	926.5	926.6	926.7	926.8	925.6	924.3
135°	979.5	982.7	985.9	989.1	990.9	991.5	992.1	992.7	993.2	992.9	992.7
137.5°	1046.1	1048.7	1051.3	1053.9	1055.6	1056.3	1057.1	1057.8	1058.6	1058.4	1058.1
140°	1086.6	1089.2	1091.8	1094.4	1096.4	1097.8	1099.3	1100.7	1102.1	1102.1	1102.1
142.5°	1128.1	1130.7	1133.3	1135.9	1137.6	1138.6	1139.6	1140.6	1141.6	1141.8	1142.0
145°	1187.2	1189.2	1191.2	1193.2	1195.1	1196.8	1198.5	1200.3	1202.0	1202.3	1202.6
147.5°	1240.7	1243.1	1245.6	1248.0	1249.8	1250.9	1252.1	1253.2	1254.4	1255.0	1255.6
150°	1276.3	1278.1	1279.8	1281.5	1283.0	1284.1	1285.3	1286.4	1287.6	1288.4	1289.3
152.5°	1308.5	1310.2	1311.9	1313.7	1315.2	1316.6	1318.0	1319.4	1320.8	1321.9	1323.0
155°	1355.9	1356.7	1357.6	1358.5	1359.3	1360.2	1361.0	1361.9	1362.8	1364.2	1365.7
157.5°	1396.8	1397.4	1398.0	1398.5	1399.1	1399.6	1400.1	1400.6	1401.2	1403.1	1405.1
160°	1421.7	1422.3	1422.9	1423.4	1423.9	1424.1	1424.4	1424.7	1425.0	1426.7	1428.5
162.5°	1444.1	1444.2	1444.3	1444.4	1444.6	1444.9	1445.2	1445.5	1445.8	1447.7	1449.7
165°	1474.0	1473.7	1473.4	1473.1	1473.0	1473.0	1473.0	1473.0	1473.0	1475.0	1477.0
167.5°	1498.8	1498.0	1497.1	1496.2	1495.8	1495.7	1495.7	1495.6	1495.5	1497.6	1499.6
170°	1512.3	1511.5	1510.6	1509.7	1509.2	1508.9	1508.6	1508.3	1508.0	1510.0	1512.0
172.5°	1521.7	1520.8	1519.9	1519.1	1518.5	1518.2	1517.9	1517.6	1517.3	1519.4	1521.4
175°	1533.1	1532.2	1531.3	1530.5	1529.8	1529.2	1528.6	1528.0	1527.4	1529.5	1531.5
177.5°	1537.9	1537.2	1536.5	1535.8	1535.3	1534.8	1534.3	1533.9	1533.4	1534.8	1536.2
180°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	676.6	679.0	680.1	680.1	681.4	680.8	680.3
5°	715.5	719.8	720.8	724.8	727.8	726.9	727.3
7.5°	754.2	761.1	768.0	771.1	771.6	773.4	774.1
10°	778.0	783.7	794.3	792.8	800.7	805.3	797.8
12.5°	800.9	808.6	816.0	818.0	822.5	824.0	821.0
15°	821.6	825.7	826.1	825.0	826.4	825.2	820.9
17.5°	802.3	795.6	782.2	775.8	770.8	763.3	760.3
20°	770.3	750.7	728.0	718.9	708.3	687.4	692.4
22.5°	701.2	679.0	656.2	629.7	617.0	597.2	596.0
25°	593.8	555.4	513.1	483.6	466.3	446.6	437.9
27.5°	461.7	413.3	378.7	361.2	345.2	329.6	328.9
30°	374.8	338.5	311.7	296.7	286.9	280.3	281.7
32.5°	315.9	291.0	272.9	260.5	253.3	248.3	248.2
35°	258.3	241.2	229.6	224.4	219.2	215.6	215.8
37.5°	221.0	210.8	204.3	198.6	195.3	193.5	192.5
40°	201.9	193.5	188.5	185.1	182.4	179.9	179.4
42.5°	186.9	179.9	174.9	172.2	169.7	167.9	167.5
45°	165.8	160.1	155.6	152.6	151.5	149.9	149.9
47.5°	147.5	141.9	138.4	136.5	134.6	133.5	133.5
50°	135.2	130.8	127.7	126.5	124.9	124.3	124.0
52.5°	124.1	120.8	118.6	117.8	117.1	116.3	116.4
55°	109.0	107.2	106.3	105.6	104.5	103.1	104.0
57.5°	96.4	94.8	92.4	90.2	89.2	88.2	88.6
60°	87.5	84.3	81.1	78.6	77.9	75.9	75.9
62.5°	76.2	71.7	67.8	66.4	65.7	64.8	64.6
65°	58.6	56.8	55.9	55.0	54.5	54.5	54.1
67.5°	48.6	47.8	46.8	46.6	46.2	46.0	45.9
70°	42.9	42.0	41.6	41.3	40.9	41.1	40.4
72.5°	37.5	36.8	36.7	36.1	35.8	35.8	35.3
75°	29.5	29.5	29.3	29.1	28.6	28.4	28.6
77.5°	22.7	22.8	22.4	22.3	22.3	22.3	22.1
80°	18.2	18.4	18.2	17.9	17.7	17.9	17.7
82.5°	14.4	14.0	14.0	13.9	13.9	13.8	13.7
85°	8.2	8.4	8.2	8.0	8.0	8.0	8.2
87.5°	11.8	11.7	11.7	11.7	11.8	11.8	11.7
90°	43.7	43.1	42.9	43.2	43.5	43.8	44.1
92.5°	41.6	41.7	41.8	41.8	41.9	42.0	42.0
95°	83.0	83.0	82.7	82.1	81.5	81.0	80.4
97.5°	139.5	139.5	139.5	139.4	139.4	139.3	139.3
100°	178.9	178.9	178.8	178.5	178.2	177.9	177.6
102.5°	222.2	222.4	222.4	222.1	221.8	221.5	221.2
105°	287.0	287.6	287.9	287.9	287.9	287.9	287.9
107.5°	356.2	356.5	355.9	354.6	353.3	351.9	350.6
110°	403.3	403.3	402.8	402.0	401.1	400.2	399.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	449.9	449.2	448.6	447.9	447.3	446.7	446.0
115°	523.0	522.7	522.1	521.3	520.4	519.5	518.7
117.5°	592.8	592.1	591.4	590.5	589.6	588.8	587.9
120°	640.5	640.5	640.1	639.2	638.4	637.5	636.7
122.5°	688.3	687.6	686.9	686.3	685.6	685.0	684.4
125°	759.8	759.0	758.4	758.1	757.8	757.5	757.2
127.5°	829.3	828.3	827.3	826.4	825.5	824.6	823.6
130°	877.4	876.8	876.0	874.8	873.7	872.5	871.3
132.5°	923.0	921.8	920.7	919.8	918.8	917.9	917.0
135°	992.4	992.1	991.5	990.6	989.8	988.9	988.0
137.5°	1057.9	1057.7	1057.0	1055.8	1054.7	1053.5	1052.4
140°	1102.1	1102.1	1101.6	1100.4	1099.3	1098.1	1097.0
142.5°	1142.3	1142.5	1142.0	1140.9	1139.7	1138.6	1137.4
145°	1202.9	1203.1	1202.7	1201.6	1200.4	1199.3	1198.1
147.5°	1256.3	1256.9	1256.7	1255.6	1254.5	1253.4	1252.3
150°	1290.2	1291.0	1291.0	1290.2	1289.3	1288.4	1287.6
152.5°	1324.0	1325.1	1325.1	1324.0	1323.0	1321.9	1320.8
155°	1367.1	1368.5	1368.8	1368.0	1367.1	1366.2	1365.4
157.5°	1407.0	1409.0	1409.3	1407.9	1406.5	1405.1	1403.7
160°	1430.2	1431.9	1432.2	1431.1	1429.9	1428.8	1427.6
162.5°	1451.6	1453.6	1453.9	1452.5	1451.1	1449.7	1448.4
165°	1479.0	1481.1	1481.3	1479.9	1478.5	1477.0	1475.6
167.5°	1501.6	1503.6	1503.9	1502.4	1500.9	1499.4	1497.9
170°	1514.0	1516.1	1516.2	1514.5	1512.8	1511.0	1509.3
172.5°	1523.4	1525.4	1525.5	1523.8	1522.1	1520.4	1518.6
175°	1533.5	1535.5	1535.7	1533.9	1532.2	1530.5	1528.7
177.5°	1537.6	1538.9	1538.9	1537.6	1536.2	1534.8	1533.4
180°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5

(END OF REPORT)