

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: P331782-940

Luminaire Tested: **S122RDIW-S290D1440U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331782-940
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-S290D1440U940-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1440 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5468.2 lumens
Efficiency: N/A
Efficacy: 102.4 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

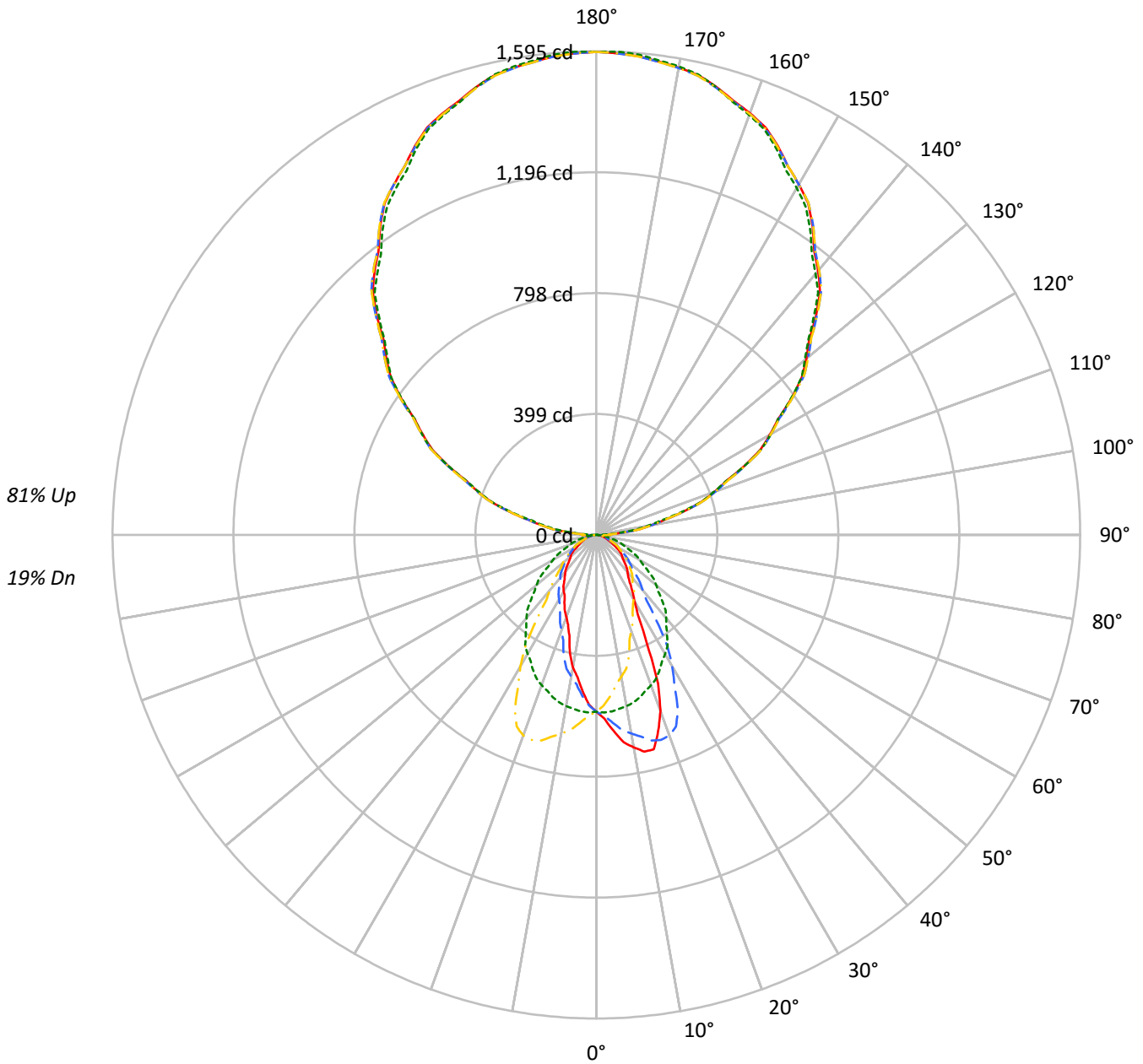
Input Watts (W): 53.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	100	100	100	100	88	88	88	88	66	66	66	46	46	46	27	27	27	19
1	91	87	83	80	80	77	74	71	58	56	54	40	39	38	24	24	23	16
2	83	76	71	66	73	67	63	59	51	48	45	36	34	32	22	21	20	14
3	76	67	60	55	67	60	54	49	45	41	38	32	30	28	20	18	17	12
4	69	60	52	47	61	53	47	42	40	36	33	29	26	24	18	16	15	11
5	64	53	45	40	56	47	41	36	36	32	28	26	23	21	16	15	14	10
6	59	47	40	35	52	42	36	31	32	28	25	23	20	18	15	13	12	9
7	54	43	35	30	48	38	32	27	29	25	22	21	18	16	13	12	11	8
8	50	39	32	27	44	35	28	24	27	22	19	19	17	14	12	11	10	7
9	47	35	28	24	41	32	26	21	24	20	17	18	15	13	12	10	9	6
10	43	32	25	21	38	29	23	19	22	18	15	16	14	12	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9411	9411	9411	9411
5°	10511	9470	8399	9470
10°	11663	9404	7279	9404
15°	12236	9267	5735	9267
20°	10608	9062	4962	9062
25°	6957	8783	4431	8783
30°	4683	8444	4010	8444
35°	3792	8016	3617	8016
40°	3372	7552	3347	7552
45°	3053	7005	2987	7005
50°	2778	6465	2768	6465
55°	2609	5866	2578	5866
60°	2186	5318	2160	5318
65°	1841	4829	2090	4829
70°	1699	4310	1969	4310
75°	1591	3755	1822	3755
80°	1469	3096	1618	3096
85°	1352	2445	1426	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	1.0
10°-20°	154.0	2.8
20°-30°	198.4	3.6
30°-40°	188.6	3.4
40°-50°	161.5	3.0
50°-60°	123.0	2.2
60°-70°	77.8	1.4
70°-80°	38.8	0.7
80°-90°	16.5	0.3
90°-100°	100.9	1.8
100°-110°	313.5	5.7
110°-120°	535.9	9.8
120°-130°	704.7	12.9
130°-140°	791.0	14.5
140°-150°	775.6	14.2
150°-160°	650.5	11.9
160°-170°	431.5	7.9
170°-180°	150.8	2.8
0°-30°	407.7	7.5
0°-40°	596.2	10.9
0°-60°	880.8	16.1
0°-90°	1013.8	18.5
90°-120°	950.3	17.4
90°-150°	3221.6	58.9
90°-180°	4454.0	81.5
0°-180°	5468.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	583	583	583	583	583	
5°	648	584	518	584	648	64
15°	732	554	343	554	732	197
25°	390	493	249	493	390	185
35°	192	407	184	407	192	123
45°	134	307	131	307	134	103
55°	93	208	92	208	93	81
65°	48	126	55	126	48	49
75°	26	60	29	60	26	27
85°	7	13	8	13	7	9
90°	46	1	46	1	46	20
95°	83	70	83	70	83	93
105°	298	289	298	289	298	314
115°	538	538	538	538	538	531
125°	785	782	785	782	785	700
135°	1024	1012	1024	1012	1024	789
145°	1242	1229	1242	1229	1242	776
155°	1416	1405	1416	1405	1416	651
165°	1530	1528	1530	1528	1530	431
175°	1585	1590	1585	1590	1585	151
180°	1593	1593	1593	1593	1593	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	606.6	607.1	607.6	606.5	606.5	605.5	603.3	601.7	597.2	596.6	596.6
5°	648.5	648.2	649.0	646.3	642.7	641.9	638.0	632.9	627.7	621.9	620.6
7.5°	690.3	689.6	688.0	687.6	684.8	678.7	672.5	665.9	657.2	648.6	644.4
10°	711.4	718.1	714.0	706.9	708.3	698.8	693.8	685.0	677.7	664.9	662.2
12.5°	732.1	734.8	733.4	729.4	727.6	721.0	714.2	706.6	693.1	681.7	671.7
15°	732.0	735.8	736.9	735.7	736.6	736.3	732.6	726.4	714.6	702.0	691.1
17.5°	678.0	680.6	687.3	691.8	697.5	709.4	715.4	717.6	716.0	708.7	701.1
20°	617.4	613.0	631.6	641.1	649.2	669.4	686.9	693.6	704.3	704.1	702.0
22.5°	531.5	532.5	550.2	561.5	585.1	605.5	625.3	650.4	671.2	684.9	692.9
25°	390.5	398.2	415.8	431.2	457.5	495.3	529.5	569.2	606.6	636.2	664.4
27.5°	293.3	293.9	307.8	322.1	337.7	368.5	411.7	459.1	512.5	556.6	607.3
30°	251.2	249.9	255.8	264.6	277.9	301.8	334.2	380.8	434.1	500.5	559.6
32.5°	221.3	221.4	225.9	232.3	243.3	259.5	281.7	319.6	369.9	435.2	504.5
35°	192.4	192.3	195.5	200.1	204.7	215.1	230.3	250.1	284.8	345.7	416.6
37.5°	171.7	172.5	174.2	177.1	182.2	188.0	197.1	210.4	235.1	271.2	330.7
40°	160.0	160.4	162.6	165.1	168.1	172.5	180.0	190.8	208.8	237.6	281.2
42.5°	149.4	149.7	151.3	153.6	156.0	160.4	166.7	175.9	190.6	212.9	248.9
45°	133.7	133.7	135.1	136.1	138.8	142.8	147.8	155.6	165.7	182.3	206.2
47.5°	119.0	119.0	120.0	121.7	123.4	126.5	131.5	137.9	145.2	158.0	178.4
50°	110.6	110.8	111.4	112.8	113.9	116.6	120.6	126.0	133.7	143.7	160.6
52.5°	103.8	103.7	104.4	105.0	105.8	107.7	110.7	115.5	122.3	131.0	145.1
55°	92.7	91.9	93.2	94.2	94.8	95.6	97.2	100.2	106.1	113.4	123.9
57.5°	79.0	78.6	79.5	80.4	82.4	84.5	86.0	87.8	90.9	96.1	106.6
60°	67.7	67.7	69.5	70.1	72.3	75.2	78.0	79.6	82.7	86.1	93.8
62.5°	57.6	57.8	58.6	59.2	60.5	63.9	67.9	71.5	74.4	77.7	82.8
65°	48.2	48.6	48.6	49.0	49.8	50.6	52.3	55.1	60.2	64.8	68.7
67.5°	40.9	41.0	41.2	41.6	41.7	42.6	43.3	44.6	45.7	50.1	54.9
70°	36.0	36.6	36.5	36.8	37.1	37.5	38.3	38.9	40.8	41.7	44.6
72.5°	31.5	31.9	31.9	32.2	32.7	32.8	33.4	34.1	35.2	36.0	37.6
75°	25.5	25.3	25.5	25.9	26.1	26.3	26.3	27.1	27.7	28.5	29.6
77.5°	19.7	19.9	19.9	19.9	20.0	20.3	20.2	20.6	21.2	21.7	22.1
80°	15.8	16.0	15.8	16.0	16.2	16.4	16.2	16.4	17.0	17.4	17.4
82.5°	12.2	12.3	12.4	12.4	12.5	12.5	12.8	12.8	13.3	13.2	13.4
85°	7.3	7.1	7.1	7.1	7.3	7.5	7.3	7.3	7.5	7.5	7.5
87.5°	11.8	11.9	11.8	11.7	11.7	11.7	11.8	12.1	12.0	12.3	10.9
90°	45.7	45.4	45.1	44.9	44.5	44.7	45.3	45.8	46.5	47.1	40.5
92.5°	43.5	43.5	43.4	43.3	43.3	43.2	43.1	43.0	42.9	42.7	41.2
95°	83.4	83.9	84.5	85.2	85.7	86.1	86.1	86.1	86.1	86.1	85.4
97.5°	144.4	144.5	144.5	144.5	144.6	144.6	144.6	144.6	144.6	144.6	143.5
100°	184.1	184.5	184.8	185.0	185.4	185.5	185.5	185.5	185.5	185.5	184.6
102.5°	229.3	229.6	230.0	230.2	230.5	230.6	230.3	230.1	229.9	229.6	228.5
105°	298.5	298.5	298.5	298.5	298.5	298.1	297.6	296.9	296.3	295.8	295.2
107.5°	363.5	364.9	366.2	367.7	369.0	369.5	369.3	369.1	368.8	368.6	368.6
110°	414.0	414.9	415.8	416.7	417.6	418.1	418.1	418.1	418.1	418.1	418.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	462.4	463.1	463.8	464.4	465.0	465.7	466.5	467.2	467.9	468.6	468.9
115°	537.7	538.6	539.5	540.4	541.3	541.9	542.2	542.5	542.8	543.1	543.7
117.5°	609.5	610.4	611.3	612.2	613.1	613.9	614.7	615.4	616.1	616.8	618.4
120°	660.0	660.9	661.8	662.7	663.6	664.1	664.1	664.1	664.1	664.1	666.5
122.5°	709.5	710.2	710.9	711.5	712.1	712.8	713.5	714.3	715.0	715.7	717.4
125°	785.1	785.4	785.7	786.0	786.3	786.8	787.7	788.6	789.5	790.4	791.4
127.5°	853.9	854.9	855.8	856.8	857.7	858.7	859.8	860.9	861.9	863.1	864.2
130°	903.4	904.6	905.8	907.0	908.1	909.0	909.6	910.3	910.9	911.4	912.0
132.5°	950.7	951.6	952.6	953.6	954.5	955.6	957.0	958.3	959.6	960.9	960.8
135°	1024.4	1025.3	1026.2	1027.1	1028.0	1028.6	1028.9	1029.1	1029.5	1029.7	1029.1
137.5°	1091.0	1092.3	1093.4	1094.7	1095.8	1096.5	1096.8	1097.0	1097.3	1097.5	1096.7
140°	1137.3	1138.4	1139.7	1140.9	1142.1	1142.6	1142.6	1142.6	1142.6	1142.6	1141.2
142.5°	1179.2	1180.4	1181.6	1182.9	1184.0	1184.5	1184.3	1184.0	1183.7	1183.6	1182.5
145°	1242.2	1243.3	1244.6	1245.7	1246.9	1247.3	1247.1	1246.8	1246.4	1246.2	1244.4
147.5°	1298.3	1299.5	1300.6	1301.7	1302.9	1303.1	1302.4	1301.8	1301.2	1300.5	1299.3
150°	1334.9	1335.8	1336.7	1337.6	1338.5	1338.5	1337.6	1336.7	1335.8	1334.9	1333.7
152.5°	1369.3	1370.5	1371.5	1372.7	1373.9	1373.9	1372.7	1371.5	1370.5	1369.3	1367.9
155°	1415.6	1416.5	1417.4	1418.3	1419.2	1418.8	1417.4	1415.9	1414.3	1412.8	1411.9
157.5°	1455.4	1456.8	1458.2	1459.6	1461.1	1460.8	1458.7	1456.7	1454.6	1452.7	1452.2
160°	1480.1	1481.3	1482.5	1483.6	1484.9	1484.5	1482.7	1481.0	1479.2	1477.4	1477.1
162.5°	1501.6	1503.1	1504.5	1505.9	1507.3	1507.0	1505.0	1503.0	1500.9	1498.9	1498.6
165°	1529.8	1531.3	1532.9	1534.3	1535.8	1535.5	1533.4	1531.3	1529.2	1527.1	1527.1
167.5°	1552.9	1554.5	1556.0	1557.6	1559.2	1558.9	1556.8	1554.7	1552.6	1550.5	1550.6
170°	1564.8	1566.6	1568.3	1570.1	1571.9	1571.8	1569.7	1567.6	1565.5	1563.4	1563.7
172.5°	1574.5	1576.3	1578.1	1579.8	1581.6	1581.4	1579.4	1577.3	1575.2	1573.1	1573.4
175°	1584.9	1586.7	1588.5	1590.3	1592.1	1592.0	1589.8	1587.8	1585.7	1583.6	1584.2
177.5°	1589.7	1591.2	1592.7	1594.1	1595.5	1595.5	1594.1	1592.7	1591.2	1589.7	1590.3
180°	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	596.9	595.6	594.4	591.6	590.0	586.8	586.4	586.2	582.0	577.9	576.8
5°	617.4	614.1	609.3	603.6	597.7	591.7	587.6	584.3	576.2	568.6	564.1
7.5°	638.0	631.1	622.7	612.0	603.0	593.0	585.5	578.8	567.3	556.2	548.8
10°	653.4	642.1	631.0	616.2	604.6	593.3	582.7	573.6	560.7	546.1	535.7
12.5°	663.0	650.5	635.2	620.7	605.7	591.3	577.2	565.5	550.3	535.2	523.0
15°	675.9	662.5	643.9	623.2	604.0	585.1	569.0	554.4	534.6	516.5	501.5
17.5°	686.5	668.1	648.1	624.2	601.9	578.0	557.1	538.5	516.4	494.6	477.0
20°	689.9	671.6	648.5	624.6	598.3	570.2	547.7	527.4	503.7	480.0	459.8
22.5°	687.8	673.6	647.9	619.3	592.4	562.9	537.5	514.0	487.7	463.5	440.1
25°	673.5	668.6	644.4	613.1	582.4	548.1	518.7	493.0	463.1	437.1	411.6
27.5°	640.2	650.7	635.6	602.4	568.1	531.5	498.4	469.1	438.0	408.8	383.4
30°	608.1	632.1	625.7	594.9	556.6	520.6	483.5	452.9	419.7	389.7	364.6
32.5°	564.2	604.0	610.3	584.5	544.9	505.3	466.5	436.0	401.4	369.8	345.3
35°	494.2	553.8	581.1	564.7	525.0	482.2	442.2	406.7	371.8	340.7	316.4
37.5°	410.8	492.0	537.5	538.7	502.2	457.8	414.1	378.9	343.2	312.6	286.3
40°	356.7	444.6	504.0	517.1	486.3	438.4	394.1	358.3	323.5	293.5	263.3
42.5°	308.1	395.7	468.6	491.5	467.1	419.4	375.1	337.6	303.7	275.4	244.5
45°	249.1	325.7	406.1	447.0	433.5	389.3	342.5	306.8	275.1	250.6	221.0
47.5°	210.2	264.1	342.0	397.3	397.1	356.8	310.7	276.6	247.1	224.1	200.2
50°	188.0	235.0	300.8	363.6	368.8	335.0	291.2	257.4	229.9	205.8	186.5
52.5°	168.0	206.8	265.9	326.2	341.2	311.8	269.4	238.2	211.4	189.2	172.8
55°	142.0	172.0	217.0	273.2	296.0	275.3	237.6	208.4	186.7	168.1	153.9
57.5°	120.1	142.6	178.7	224.0	250.4	237.5	206.3	182.6	164.1	147.2	136.1
60°	106.4	124.8	155.3	193.2	222.4	213.3	186.7	164.7	148.9	134.3	123.8
62.5°	93.4	109.2	135.5	166.2	192.9	189.1	167.5	148.9	135.1	121.8	112.9
65°	75.2	86.7	107.2	131.3	152.8	154.5	138.9	126.4	114.0	103.5	95.6
67.5°	59.8	67.4	81.8	102.1	118.2	123.9	114.4	104.8	95.0	86.9	80.0
70°	50.5	56.5	67.1	83.5	98.3	104.3	98.8	91.3	82.8	76.2	70.3
72.5°	40.8	46.8	54.6	66.6	79.3	85.9	83.9	78.6	71.7	66.1	60.5
75°	30.8	32.6	37.9	46.0	55.9	61.6	63.0	60.2	54.7	50.5	47.2
77.5°	22.7	23.9	26.4	30.6	37.1	42.2	44.2	43.9	40.1	37.7	34.6
80°	18.2	18.8	20.1	21.8	26.8	31.8	33.3	33.3	30.6	29.6	26.6
82.5°	13.8	14.3	15.1	16.1	18.3	22.7	24.3	24.6	23.0	21.7	19.3
85°	7.9	7.7	8.1	8.7	9.1	10.3	12.8	13.2	12.8	11.1	10.5
87.5°	9.5	8.4	7.0	5.9	5.4	4.8	4.9	5.0	5.0	5.3	5.6
90°	33.9	27.4	20.8	15.7	12.1	8.5	4.9	1.3	4.9	8.5	12.1
92.5°	39.7	38.1	36.6	34.4	31.8	29.2	26.6	23.9	26.6	29.2	31.8
95°	84.8	84.3	83.6	81.9	78.8	75.9	72.9	69.9	72.9	75.9	78.8
97.5°	142.4	141.2	140.1	138.2	135.6	133.0	130.4	127.7	130.4	133.0	135.6
100°	183.7	182.8	181.9	180.3	177.9	175.5	173.1	170.8	173.1	175.5	177.9
102.5°	227.3	226.2	225.1	223.6	221.6	219.7	217.8	215.9	217.8	219.7	221.6
105°	294.5	294.0	293.4	292.6	291.7	290.8	289.9	289.0	289.9	290.8	291.7
107.5°	368.6	368.6	368.6	367.9	366.7	365.3	364.0	362.7	364.0	365.3	366.7
110°	418.1	418.1	418.1	417.1	415.4	413.6	411.8	410.0	411.8	413.6	415.4



TEST NUMBER: P331782-940

CATALOG NUMBER: S122RDIW-S290D1440U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	469.1	469.3	469.6	468.8	467.0	465.2	463.4	461.6	463.4	465.2	467.0
115°	544.3	544.9	545.5	544.9	543.1	541.3	539.5	537.7	539.5	541.3	543.1
117.5°	620.1	621.8	623.5	623.1	620.7	618.3	615.9	613.6	615.9	618.3	620.7
120°	668.9	671.3	673.7	673.7	671.3	668.9	666.5	664.1	666.5	668.9	671.3
122.5°	719.1	720.8	722.4	721.8	718.9	716.0	713.2	710.3	713.2	716.0	718.9
125°	792.3	793.2	794.1	793.2	790.4	787.7	785.1	782.4	785.1	787.7	790.4
127.5°	865.2	866.3	867.4	866.2	862.8	859.3	856.0	852.6	856.0	859.3	862.8
130°	912.7	913.2	913.8	912.2	908.3	904.5	900.5	896.6	900.5	904.5	908.3
132.5°	960.6	960.6	960.5	958.8	955.6	952.4	949.3	946.1	949.3	952.4	955.6
135°	1028.6	1028.0	1027.3	1025.4	1022.1	1018.9	1015.6	1012.3	1015.6	1018.9	1022.1
137.5°	1095.9	1095.2	1094.4	1092.6	1089.9	1087.3	1084.6	1081.9	1084.6	1087.3	1089.9
140°	1139.7	1138.2	1136.7	1134.6	1131.9	1129.3	1126.5	1123.8	1126.5	1129.3	1131.9
142.5°	1181.5	1180.4	1179.5	1177.6	1174.9	1172.2	1169.6	1166.9	1169.6	1172.2	1174.9
145°	1242.6	1240.8	1239.0	1237.1	1234.9	1232.9	1230.8	1228.7	1230.8	1232.9	1234.9
147.5°	1298.1	1296.9	1295.7	1293.9	1291.4	1288.8	1286.3	1283.8	1286.3	1288.8	1291.4
150°	1332.5	1331.3	1330.1	1328.6	1326.9	1325.1	1323.2	1321.4	1323.2	1325.1	1326.9
152.5°	1366.5	1365.0	1363.6	1362.0	1360.1	1358.3	1356.6	1354.8	1356.6	1358.3	1360.1
155°	1411.0	1410.2	1409.3	1408.4	1407.5	1406.6	1405.7	1404.8	1405.7	1406.6	1407.5
157.5°	1451.6	1451.1	1450.5	1449.9	1449.4	1448.8	1448.1	1447.5	1448.1	1448.8	1449.4
160°	1476.8	1476.5	1476.2	1475.8	1475.2	1474.5	1474.0	1473.4	1474.0	1474.5	1475.2
162.5°	1498.3	1498.0	1497.7	1497.5	1497.4	1497.3	1497.2	1497.0	1497.2	1497.3	1497.4
165°	1527.1	1527.1	1527.1	1527.3	1527.6	1527.9	1528.2	1528.5	1528.2	1527.9	1527.6
167.5°	1550.7	1550.7	1550.8	1551.2	1552.1	1553.0	1553.9	1554.8	1553.9	1553.0	1552.1
170°	1564.1	1564.3	1564.6	1565.2	1566.1	1567.0	1567.9	1568.8	1567.9	1567.0	1566.1
172.5°	1573.7	1574.0	1574.3	1574.9	1575.8	1576.7	1577.6	1578.5	1577.6	1576.7	1575.8
175°	1584.7	1585.4	1586.0	1586.7	1587.6	1588.5	1589.4	1590.3	1589.4	1588.5	1587.6
177.5°	1590.7	1591.2	1591.7	1592.3	1593.0	1593.8	1594.5	1595.2	1594.5	1593.8	1593.0
180°	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	574.7	573.5	571.4	568.2	566.2	562.8	560.6	561.9	562.2	561.9	561.6
5°	559.3	555.0	549.1	543.4	538.1	532.5	529.2	527.9	525.0	523.4	522.5
7.5°	540.6	533.2	525.0	515.1	506.7	497.8	493.4	491.2	485.4	482.2	479.5
10°	526.6	515.1	506.8	493.8	485.9	474.4	466.5	466.7	458.8	454.3	451.1
12.5°	511.2	498.6	484.7	473.1	462.1	452.8	443.3	439.4	431.1	426.8	418.0
15°	485.7	470.9	456.4	440.6	429.4	415.0	401.3	384.4	370.9	359.1	355.9
17.5°	457.9	439.5	424.9	406.4	387.3	363.1	347.1	337.3	329.2	323.0	318.3
20°	438.7	420.1	404.5	376.6	350.8	334.4	322.7	315.1	306.7	300.0	296.3
22.5°	418.7	399.2	377.9	346.7	326.6	313.5	303.1	294.4	288.6	283.5	280.1
25°	390.1	368.8	333.8	312.4	296.1	282.3	275.1	269.8	263.8	256.6	253.4
27.5°	360.0	326.2	301.0	285.0	269.6	260.6	254.0	246.2	240.8	237.6	234.2
30°	337.4	303.6	284.0	266.5	255.7	245.7	238.0	233.5	228.3	222.8	220.6
32.5°	312.4	285.3	266.4	252.0	240.9	232.4	226.3	219.1	215.3	212.0	207.3
35°	281.2	260.6	243.4	231.8	221.1	214.3	207.2	203.0	196.1	193.2	191.5
37.5°	254.8	237.0	224.2	211.8	203.4	195.8	191.5	184.7	181.7	177.7	173.9
40°	239.8	222.4	210.1	199.9	190.6	184.9	179.5	174.0	169.5	167.7	163.1
42.5°	224.6	210.4	198.0	187.0	180.7	174.7	167.8	163.8	159.2	156.2	153.4
45°	203.6	191.0	180.5	171.4	164.4	158.2	153.7	147.0	144.5	138.6	136.1
47.5°	185.1	173.4	163.4	154.7	148.0	143.9	137.4	132.2	128.0	124.3	121.2
50°	172.0	162.2	152.5	144.8	138.8	132.9	126.2	123.6	117.1	115.2	113.4
52.5°	160.0	150.7	141.9	134.3	128.2	122.5	116.6	113.2	108.8	107.0	105.7
55°	143.2	134.3	125.8	119.1	113.1	107.2	103.5	99.2	97.2	95.8	94.2
57.5°	126.4	118.3	111.8	105.0	98.9	94.3	90.1	87.5	85.4	83.6	81.6
60°	115.7	108.0	102.1	95.8	89.5	85.7	82.5	79.4	77.0	74.1	73.3
62.5°	104.3	97.6	92.2	86.1	80.6	77.1	74.0	71.2	68.2	64.1	63.0
65°	88.7	83.5	77.8	72.7	67.9	64.4	59.9	56.7	55.5	55.1	54.9
67.5°	74.6	69.6	64.7	59.6	55.2	52.0	49.7	49.2	48.3	48.2	47.5
70°	65.2	60.5	55.7	50.8	46.5	46.0	45.2	44.3	43.3	43.0	42.5
72.5°	56.8	52.0	47.1	43.2	41.4	40.7	39.9	39.0	38.3	37.9	37.7
75°	43.5	39.1	35.8	34.4	33.4	32.8	31.6	31.0	30.6	30.0	29.8
77.5°	31.4	28.8	27.4	26.5	25.4	24.8	24.1	23.5	23.0	22.9	22.6
80°	23.9	22.6	21.7	20.4	20.1	19.3	19.1	18.5	18.6	18.0	18.0
82.5°	18.5	17.0	16.1	15.6	15.2	14.5	14.4	14.1	14.1	13.6	13.6
85°	9.5	9.1	8.7	8.3	8.3	7.7	7.9	7.7	7.7	7.3	7.1
87.5°	6.2	7.0	8.0	9.4	10.7	11.9	11.7	11.4	11.3	11.2	11.0
90°	15.7	20.8	27.4	33.9	40.5	47.1	46.5	45.8	45.3	44.7	44.5
92.5°	34.4	36.6	38.1	39.7	41.2	42.7	42.9	43.0	43.1	43.2	43.3
95°	81.9	83.6	84.3	84.8	85.4	86.1	86.1	86.1	86.1	86.1	85.7
97.5°	138.2	140.1	141.2	142.4	143.5	144.6	144.6	144.6	144.6	144.6	144.6
100°	180.3	181.9	182.8	183.7	184.6	185.5	185.5	185.5	185.5	185.5	185.4
102.5°	223.6	225.1	226.2	227.3	228.5	229.6	229.9	230.1	230.3	230.6	230.5
105°	292.6	293.4	294.0	294.5	295.2	295.8	296.3	296.9	297.6	298.1	298.5
107.5°	367.9	368.6	368.6	368.6	368.6	368.6	368.8	369.1	369.3	369.5	369.0
110°	417.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	417.6



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	468.8	469.6	469.3	469.1	468.9	468.6	467.9	467.2	466.5	465.7	465.0
115°	544.9	545.5	544.9	544.3	543.7	543.1	542.8	542.5	542.2	541.9	541.3
117.5°	623.1	623.5	621.8	620.1	618.4	616.8	616.1	615.4	614.7	613.9	613.1
120°	673.7	673.7	671.3	668.9	666.5	664.1	664.1	664.1	664.1	664.1	663.6
122.5°	721.8	722.4	720.8	719.1	717.4	715.7	715.0	714.3	713.5	712.8	712.1
125°	793.2	794.1	793.2	792.3	791.4	790.4	789.5	788.6	787.7	786.8	786.3
127.5°	866.2	867.4	866.3	865.2	864.2	863.1	861.9	860.9	859.8	858.7	857.7
130°	912.2	913.8	913.2	912.7	912.0	911.4	910.9	910.3	909.6	909.0	908.1
132.5°	958.8	960.5	960.6	960.6	960.8	960.9	959.6	958.3	957.0	955.6	954.5
135°	1025.4	1027.3	1028.0	1028.6	1029.1	1029.7	1029.5	1029.1	1028.9	1028.6	1028.0
137.5°	1092.6	1094.4	1095.2	1095.9	1096.7	1097.5	1097.3	1097.0	1096.8	1096.5	1095.8
140°	1134.6	1136.7	1138.2	1139.7	1141.2	1142.6	1142.6	1142.6	1142.6	1142.6	1142.1
142.5°	1177.6	1179.5	1180.4	1181.5	1182.5	1183.6	1183.7	1184.0	1184.3	1184.5	1184.0
145°	1237.1	1239.0	1240.8	1242.6	1244.4	1246.2	1246.4	1246.8	1247.1	1247.3	1246.9
147.5°	1293.9	1295.7	1296.9	1298.1	1299.3	1300.5	1301.2	1301.8	1302.4	1303.1	1302.9
150°	1328.6	1330.1	1331.3	1332.5	1333.7	1334.9	1335.8	1336.7	1337.6	1338.5	1338.5
152.5°	1362.0	1363.6	1365.0	1366.5	1367.9	1369.3	1370.5	1371.5	1372.7	1373.9	1373.9
155°	1408.4	1409.3	1410.2	1411.0	1411.9	1412.8	1414.3	1415.9	1417.4	1418.8	1419.2
157.5°	1449.9	1450.5	1451.1	1451.6	1452.2	1452.7	1454.6	1456.7	1458.7	1460.8	1461.1
160°	1475.8	1476.2	1476.5	1476.8	1477.1	1477.4	1479.2	1481.0	1482.7	1484.5	1484.9
162.5°	1497.5	1497.7	1498.0	1498.3	1498.6	1498.9	1500.9	1503.0	1505.0	1507.0	1507.3
165°	1527.3	1527.1	1527.1	1527.1	1527.1	1527.1	1529.2	1531.3	1533.4	1535.5	1535.8
167.5°	1551.2	1550.8	1550.7	1550.7	1550.6	1550.5	1552.6	1554.7	1556.8	1558.9	1559.2
170°	1565.2	1564.6	1564.3	1564.1	1563.7	1563.4	1565.5	1567.6	1569.7	1571.8	1571.9
172.5°	1574.9	1574.3	1574.0	1573.7	1573.4	1573.1	1575.2	1577.3	1579.4	1581.4	1581.6
175°	1586.7	1586.0	1585.4	1584.7	1584.2	1583.6	1585.7	1587.8	1589.8	1592.0	1592.1
177.5°	1592.3	1591.7	1591.2	1590.7	1590.3	1589.7	1591.2	1592.7	1594.1	1595.5	1595.5
180°	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0



TEST NUMBER: P331782-940

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	559.8	560.1	559.6	559.9	559.6	560.1	559.8	561.6	561.9	562.2	561.9
5°	521.6	519.2	518.7	518.2	518.7	519.2	521.6	522.5	523.4	525.0	527.9
7.5°	476.0	475.6	474.6	473.1	474.6	475.6	476.0	479.5	482.2	485.4	491.2
10°	446.7	445.6	445.4	444.0	445.4	445.6	446.7	451.1	454.3	458.8	466.7
12.5°	412.2	405.7	405.1	401.5	405.1	405.7	412.2	418.0	426.8	431.1	439.4
15°	351.1	349.8	345.7	343.1	345.7	349.8	351.1	355.9	359.1	370.9	384.4
17.5°	316.0	312.0	310.8	310.2	310.8	312.0	316.0	318.3	323.0	329.2	337.3
20°	293.5	289.9	289.3	288.8	289.3	289.9	293.5	296.3	300.0	306.7	315.1
22.5°	277.9	274.1	272.6	271.3	272.6	274.1	277.9	280.1	283.5	288.6	294.4
25°	251.4	249.9	249.1	248.7	249.1	249.9	251.4	253.4	256.6	263.8	269.8
27.5°	230.6	227.5	226.9	225.8	226.9	227.5	230.6	234.2	237.6	240.8	246.2
30°	218.7	217.8	216.3	215.1	216.3	217.8	218.7	220.6	222.8	228.3	233.5
32.5°	204.8	203.9	202.7	202.2	202.7	203.9	204.8	207.3	212.0	215.3	219.1
35°	189.4	186.5	185.3	183.5	185.3	186.5	189.4	191.5	193.2	196.1	203.0
37.5°	173.1	171.6	169.9	170.5	169.9	171.6	173.1	173.9	177.7	181.7	184.7
40°	160.4	159.4	159.0	158.8	159.0	159.4	160.4	163.1	167.7	169.5	174.0
42.5°	150.3	147.6	146.5	146.5	146.5	147.6	150.3	153.4	156.2	159.2	163.8
45°	135.1	132.5	130.6	130.8	130.6	132.5	135.1	136.1	138.6	144.5	147.0
47.5°	119.5	119.4	118.2	118.6	118.2	119.4	119.5	121.2	124.3	128.0	132.2
50°	112.0	110.8	109.9	110.2	109.9	110.8	112.0	113.4	115.2	117.1	123.6
52.5°	104.9	103.8	103.2	104.1	103.2	103.8	104.9	105.7	107.0	108.8	113.2
55°	93.2	91.9	91.8	91.6	91.8	91.9	93.2	94.2	95.8	97.2	99.2
57.5°	80.1	79.3	78.0	77.6	78.0	79.3	80.1	81.6	83.6	85.4	87.5
60°	70.7	69.1	67.1	66.9	67.1	69.1	70.7	73.3	74.1	77.0	79.4
62.5°	62.1	61.8	61.3	61.3	61.3	61.8	62.1	63.0	64.1	68.2	71.2
65°	54.5	54.3	54.5	54.7	54.5	54.3	54.5	54.9	55.1	55.5	56.7
67.5°	47.4	47.1	46.7	46.9	46.7	47.1	47.4	47.5	48.2	48.3	49.2
70°	42.1	41.9	41.7	41.7	41.7	41.9	42.1	42.5	43.0	43.3	44.3
72.5°	36.9	36.9	36.7	36.6	36.7	36.9	36.9	37.7	37.9	38.3	39.0
75°	29.6	29.2	29.2	29.2	29.2	29.2	29.6	29.8	30.0	30.6	31.0
77.5°	22.6	22.3	22.1	21.9	22.1	22.3	22.6	22.6	22.9	23.0	23.5
80°	17.8	17.7	17.4	17.4	17.4	17.7	17.8	18.0	18.0	18.6	18.5
82.5°	13.6	13.4	13.4	13.2	13.4	13.4	13.6	13.6	13.6	14.1	14.1
85°	7.3	7.5	7.3	7.7	7.3	7.5	7.3	7.1	7.3	7.7	7.7
87.5°	11.1	11.0	11.1	11.1	11.1	11.0	11.1	11.0	11.2	11.3	11.4
90°	44.9	45.1	45.4	45.7	45.4	45.1	44.9	44.5	44.7	45.3	45.8
92.5°	43.3	43.4	43.5	43.5	43.5	43.4	43.3	43.3	43.2	43.1	43.0
95°	85.2	84.5	83.9	83.4	83.9	84.5	85.2	85.7	86.1	86.1	86.1
97.5°	144.5	144.5	144.5	144.4	144.5	144.5	144.5	144.6	144.6	144.6	144.6
100°	185.0	184.8	184.5	184.1	184.5	184.8	185.0	185.4	185.5	185.5	185.5
102.5°	230.2	230.0	229.6	229.3	229.6	230.0	230.2	230.5	230.6	230.3	230.1
105°	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.1	297.6	296.9
107.5°	367.7	366.2	364.9	363.5	364.9	366.2	367.7	369.0	369.5	369.3	369.1
110°	416.7	415.8	414.9	414.0	414.9	415.8	416.7	417.6	418.1	418.1	418.1



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CATALOG NUMBER: S122RDIW-S290D1440U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	464.4	463.8	463.1	462.4	463.1	463.8	464.4	465.0	465.7	466.5	467.2
115°	540.4	539.5	538.6	537.7	538.6	539.5	540.4	541.3	541.9	542.2	542.5
117.5°	612.2	611.3	610.4	609.5	610.4	611.3	612.2	613.1	613.9	614.7	615.4
120°	662.7	661.8	660.9	660.0	660.9	661.8	662.7	663.6	664.1	664.1	664.1
122.5°	711.5	710.9	710.2	709.5	710.2	710.9	711.5	712.1	712.8	713.5	714.3
125°	786.0	785.7	785.4	785.1	785.4	785.7	786.0	786.3	786.8	787.7	788.6
127.5°	856.8	855.8	854.9	853.9	854.9	855.8	856.8	857.7	858.7	859.8	860.9
130°	907.0	905.8	904.6	903.4	904.6	905.8	907.0	908.1	909.0	909.6	910.3
132.5°	953.6	952.6	951.6	950.7	951.6	952.6	953.6	954.5	955.6	957.0	958.3
135°	1027.1	1026.2	1025.3	1024.4	1025.3	1026.2	1027.1	1028.0	1028.6	1028.9	1029.1
137.5°	1094.7	1093.4	1092.3	1091.0	1092.3	1093.4	1094.7	1095.8	1096.5	1096.8	1097.0
140°	1140.9	1139.7	1138.4	1137.3	1138.4	1139.7	1140.9	1142.1	1142.6	1142.6	1142.6
142.5°	1182.9	1181.6	1180.4	1179.2	1180.4	1181.6	1182.9	1184.0	1184.5	1184.3	1184.0
145°	1245.7	1244.6	1243.3	1242.2	1243.3	1244.6	1245.7	1246.9	1247.3	1247.1	1246.8
147.5°	1301.7	1300.6	1299.5	1298.3	1299.5	1300.6	1301.7	1302.9	1303.1	1302.4	1301.8
150°	1337.6	1336.7	1335.8	1334.9	1335.8	1336.7	1337.6	1338.5	1338.5	1337.6	1336.7
152.5°	1372.7	1371.5	1370.5	1369.3	1370.5	1371.5	1372.7	1373.9	1373.9	1372.7	1371.5
155°	1418.3	1417.4	1416.5	1415.6	1416.5	1417.4	1418.3	1419.2	1418.8	1417.4	1415.9
157.5°	1459.6	1458.2	1456.8	1455.4	1456.8	1458.2	1459.6	1461.1	1460.8	1458.7	1456.7
160°	1483.6	1482.5	1481.3	1480.1	1481.3	1482.5	1483.6	1484.9	1484.5	1482.7	1481.0
162.5°	1505.9	1504.5	1503.1	1501.6	1503.1	1504.5	1505.9	1507.3	1507.0	1505.0	1503.0
165°	1534.3	1532.9	1531.3	1529.8	1531.3	1532.9	1534.3	1535.8	1535.5	1533.4	1531.3
167.5°	1557.6	1556.0	1554.5	1552.9	1554.5	1556.0	1557.6	1559.2	1558.9	1556.8	1554.7
170°	1570.1	1568.3	1566.6	1564.8	1566.6	1568.3	1570.1	1571.9	1571.8	1569.7	1567.6
172.5°	1579.8	1578.1	1576.3	1574.5	1576.3	1578.1	1579.8	1581.6	1581.4	1579.4	1577.3
175°	1590.3	1588.5	1586.7	1584.9	1586.7	1588.5	1590.3	1592.1	1592.0	1589.8	1587.8
177.5°	1594.1	1592.7	1591.2	1589.7	1591.2	1592.7	1594.1	1595.5	1595.5	1594.1	1592.7
180°	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0



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CATALOG NUMBER: S122RDIW-S290D1440U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	560.6	562.8	566.2	568.2	571.4	573.5	574.7	576.8	577.9	582.0	586.2
5°	529.2	532.5	538.1	543.4	549.1	555.0	559.3	564.1	568.6	576.2	584.3
7.5°	493.4	497.8	506.7	515.1	525.0	533.2	540.6	548.8	556.2	567.3	578.8
10°	466.5	474.4	485.9	493.8	506.8	515.1	526.6	535.7	546.1	560.7	573.6
12.5°	443.3	452.8	462.1	473.1	484.7	498.6	511.2	523.0	535.2	550.3	565.5
15°	401.3	415.0	429.4	440.6	456.4	470.9	485.7	501.5	516.5	534.6	554.4
17.5°	347.1	363.1	387.3	406.4	424.9	439.5	457.9	477.0	494.6	516.4	538.5
20°	322.7	334.4	350.8	376.6	404.5	420.1	438.7	459.8	480.0	503.7	527.4
22.5°	303.1	313.5	326.6	346.7	377.9	399.2	418.7	440.1	463.5	487.7	514.0
25°	275.1	282.3	296.1	312.4	333.8	368.8	390.1	411.6	437.1	463.1	493.0
27.5°	254.0	260.6	269.6	285.0	301.0	326.2	360.0	383.4	408.8	438.0	469.1
30°	238.0	245.7	255.7	266.5	284.0	303.6	337.4	364.6	389.7	419.7	452.9
32.5°	226.3	232.4	240.9	252.0	266.4	285.3	312.4	345.3	369.8	401.4	436.0
35°	207.2	214.3	221.1	231.8	243.4	260.6	281.2	316.4	340.7	371.8	406.7
37.5°	191.5	195.8	203.4	211.8	224.2	237.0	254.8	286.3	312.6	343.2	378.9
40°	179.5	184.9	190.6	199.9	210.1	222.4	239.8	263.3	293.5	323.5	358.3
42.5°	167.8	174.7	180.7	187.0	198.0	210.4	224.6	244.5	275.4	303.7	337.6
45°	153.7	158.2	164.4	171.4	180.5	191.0	203.6	221.0	250.6	275.1	306.8
47.5°	137.4	143.9	148.0	154.7	163.4	173.4	185.1	200.2	224.1	247.1	276.6
50°	126.2	132.9	138.8	144.8	152.5	162.2	172.0	186.5	205.8	229.9	257.4
52.5°	116.6	122.5	128.2	134.3	141.9	150.7	160.0	172.8	189.2	211.4	238.2
55°	103.5	107.2	113.1	119.1	125.8	134.3	143.2	153.9	168.1	186.7	208.4
57.5°	90.1	94.3	98.9	105.0	111.8	118.3	126.4	136.1	147.2	164.1	182.6
60°	82.5	85.7	89.5	95.8	102.1	108.0	115.7	123.8	134.3	148.9	164.7
62.5°	74.0	77.1	80.6	86.1	92.2	97.6	104.3	112.9	121.8	135.1	148.9
65°	59.9	64.4	67.9	72.7	77.8	83.5	88.7	95.6	103.5	114.0	126.4
67.5°	49.7	52.0	55.2	59.6	64.7	69.6	74.6	80.0	86.9	95.0	104.8
70°	45.2	46.0	46.5	50.8	55.7	60.5	65.2	70.3	76.2	82.8	91.3
72.5°	39.9	40.7	41.4	43.2	47.1	52.0	56.8	60.5	66.1	71.7	78.6
75°	31.6	32.8	33.4	34.4	35.8	39.1	43.5	47.2	50.5	54.7	60.2
77.5°	24.1	24.8	25.4	26.5	27.4	28.8	31.4	34.6	37.7	40.1	43.9
80°	19.1	19.3	20.1	20.4	21.7	22.6	23.9	26.6	29.6	30.6	33.3
82.5°	14.4	14.5	15.2	15.6	16.1	17.0	18.5	19.3	21.7	23.0	24.6
85°	7.9	7.7	8.3	8.3	8.7	9.1	9.5	10.5	11.1	12.8	13.2
87.5°	11.7	11.9	10.7	9.4	8.0	7.0	6.2	5.6	5.3	5.0	5.0
90°	46.5	47.1	40.5	33.9	27.4	20.8	15.7	12.1	8.5	4.9	1.3
92.5°	42.9	42.7	41.2	39.7	38.1	36.6	34.4	31.8	29.2	26.6	23.9
95°	86.1	86.1	85.4	84.8	84.3	83.6	81.9	78.8	75.9	72.9	69.9
97.5°	144.6	144.6	143.5	142.4	141.2	140.1	138.2	135.6	133.0	130.4	127.7
100°	185.5	185.5	184.6	183.7	182.8	181.9	180.3	177.9	175.5	173.1	170.8
102.5°	229.9	229.6	228.5	227.3	226.2	225.1	223.6	221.6	219.7	217.8	215.9
105°	296.3	295.8	295.2	294.5	294.0	293.4	292.6	291.7	290.8	289.9	289.0
107.5°	368.8	368.6	368.6	368.6	368.6	368.6	367.9	366.7	365.3	364.0	362.7
110°	418.1	418.1	418.1	418.1	418.1	418.1	417.1	415.4	413.6	411.8	410.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	467.9	468.6	468.9	469.1	469.3	469.6	468.8	467.0	465.2	463.4	461.6
115°	542.8	543.1	543.7	544.3	544.9	545.5	544.9	543.1	541.3	539.5	537.7
117.5°	616.1	616.8	618.4	620.1	621.8	623.5	623.1	620.7	618.3	615.9	613.6
120°	664.1	664.1	666.5	668.9	671.3	673.7	673.7	671.3	668.9	666.5	664.1
122.5°	715.0	715.7	717.4	719.1	720.8	722.4	721.8	718.9	716.0	713.2	710.3
125°	789.5	790.4	791.4	792.3	793.2	794.1	793.2	790.4	787.7	785.1	782.4
127.5°	861.9	863.1	864.2	865.2	866.3	867.4	866.2	862.8	859.3	856.0	852.6
130°	910.9	911.4	912.0	912.7	913.2	913.8	912.2	908.3	904.5	900.5	896.6
132.5°	959.6	960.9	960.8	960.6	960.6	960.5	958.8	955.6	952.4	949.3	946.1
135°	1029.5	1029.7	1029.1	1028.6	1028.0	1027.3	1025.4	1022.1	1018.9	1015.6	1012.3
137.5°	1097.3	1097.5	1096.7	1095.9	1095.2	1094.4	1092.6	1089.9	1087.3	1084.6	1081.9
140°	1142.6	1142.6	1141.2	1139.7	1138.2	1136.7	1134.6	1131.9	1129.3	1126.5	1123.8
142.5°	1183.7	1183.6	1182.5	1181.5	1180.4	1179.5	1177.6	1174.9	1172.2	1169.6	1166.9
145°	1246.4	1246.2	1244.4	1242.6	1240.8	1239.0	1237.1	1234.9	1232.9	1230.8	1228.7
147.5°	1301.2	1300.5	1299.3	1298.1	1296.9	1295.7	1293.9	1291.4	1288.8	1286.3	1283.8
150°	1335.8	1334.9	1333.7	1332.5	1331.3	1330.1	1328.6	1326.9	1325.1	1323.2	1321.4
152.5°	1370.5	1369.3	1367.9	1366.5	1365.0	1363.6	1362.0	1360.1	1358.3	1356.6	1354.8
155°	1414.3	1412.8	1411.9	1411.0	1410.2	1409.3	1408.4	1407.5	1406.6	1405.7	1404.8
157.5°	1454.6	1452.7	1452.2	1451.6	1451.1	1450.5	1449.9	1449.4	1448.8	1448.1	1447.5
160°	1479.2	1477.4	1477.1	1476.8	1476.5	1476.2	1475.8	1475.2	1474.5	1474.0	1473.4
162.5°	1500.9	1498.9	1498.6	1498.3	1498.0	1497.7	1497.5	1497.4	1497.3	1497.2	1497.0
165°	1529.2	1527.1	1527.1	1527.1	1527.1	1527.1	1527.3	1527.6	1527.9	1528.2	1528.5
167.5°	1552.6	1550.5	1550.6	1550.7	1550.7	1550.8	1551.2	1552.1	1553.0	1553.9	1554.8
170°	1565.5	1563.4	1563.7	1564.1	1564.3	1564.6	1565.2	1566.1	1567.0	1567.9	1568.8
172.5°	1575.2	1573.1	1573.4	1573.7	1574.0	1574.3	1574.9	1575.8	1576.7	1577.6	1578.5
175°	1585.7	1583.6	1584.2	1584.7	1585.4	1586.0	1586.7	1587.6	1588.5	1589.4	1590.3
177.5°	1591.2	1589.7	1590.3	1590.7	1591.2	1591.7	1592.3	1593.0	1593.8	1594.5	1595.2
180°	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0



TEST NUMBER: P331782-940

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	586.4	586.8	590.0	591.6	594.4	595.6	596.9	596.6	596.6	597.2	601.7
5°	587.6	591.7	597.7	603.6	609.3	614.1	617.4	620.6	621.9	627.7	632.9
7.5°	585.5	593.0	603.0	612.0	622.7	631.1	638.0	644.4	648.6	657.2	665.9
10°	582.7	593.3	604.6	616.2	631.0	642.1	653.4	662.2	664.9	677.7	685.0
12.5°	577.2	591.3	605.7	620.7	635.2	650.5	663.0	671.7	681.7	693.1	706.6
15°	569.0	585.1	604.0	623.2	643.9	662.5	675.9	691.1	702.0	714.6	726.4
17.5°	557.1	578.0	601.9	624.2	648.1	668.1	686.5	701.1	708.7	716.0	717.6
20°	547.7	570.2	598.3	624.6	648.5	671.6	689.9	702.0	704.1	704.3	693.6
22.5°	537.5	562.9	592.4	619.3	647.9	673.6	687.8	692.9	684.9	671.2	650.4
25°	518.7	548.1	582.4	613.1	644.4	668.6	673.5	664.4	636.2	606.6	569.2
27.5°	498.4	531.5	568.1	602.4	635.6	650.7	640.2	607.3	556.6	512.5	459.1
30°	483.5	520.6	556.6	594.9	625.7	632.1	608.1	559.6	500.5	434.1	380.8
32.5°	466.5	505.3	544.9	584.5	610.3	604.0	564.2	504.5	435.2	369.9	319.6
35°	442.2	482.2	525.0	564.7	581.1	553.8	494.2	416.6	345.7	284.8	250.1
37.5°	414.1	457.8	502.2	538.7	537.5	492.0	410.8	330.7	271.2	235.1	210.4
40°	394.1	438.4	486.3	517.1	504.0	444.6	356.7	281.2	237.6	208.8	190.8
42.5°	375.1	419.4	467.1	491.5	468.6	395.7	308.1	248.9	212.9	190.6	175.9
45°	342.5	389.3	433.5	447.0	406.1	325.7	249.1	206.2	182.3	165.7	155.6
47.5°	310.7	356.8	397.1	397.3	342.0	264.1	210.2	178.4	158.0	145.2	137.9
50°	291.2	335.0	368.8	363.6	300.8	235.0	188.0	160.6	143.7	133.7	126.0
52.5°	269.4	311.8	341.2	326.2	265.9	206.8	168.0	145.1	131.0	122.3	115.5
55°	237.6	275.3	296.0	273.2	217.0	172.0	142.0	123.9	113.4	106.1	100.2
57.5°	206.3	237.5	250.4	224.0	178.7	142.6	120.1	106.6	96.1	90.9	87.8
60°	186.7	213.3	222.4	193.2	155.3	124.8	106.4	93.8	86.1	82.7	79.6
62.5°	167.5	189.1	192.9	166.2	135.5	109.2	93.4	82.8	77.7	74.4	71.5
65°	138.9	154.5	152.8	131.3	107.2	86.7	75.2	68.7	64.8	60.2	55.1
67.5°	114.4	123.9	118.2	102.1	81.8	67.4	59.8	54.9	50.1	45.7	44.6
70°	98.8	104.3	98.3	83.5	67.1	56.5	50.5	44.6	41.7	40.8	38.9
72.5°	83.9	85.9	79.3	66.6	54.6	46.8	40.8	37.6	36.0	35.2	34.1
75°	63.0	61.6	55.9	46.0	37.9	32.6	30.8	29.6	28.5	27.7	27.1
77.5°	44.2	42.2	37.1	30.6	26.4	23.9	22.7	22.1	21.7	21.2	20.6
80°	33.3	31.8	26.8	21.8	20.1	18.8	18.2	17.4	17.4	17.0	16.4
82.5°	24.3	22.7	18.3	16.1	15.1	14.3	13.8	13.4	13.2	13.3	12.8
85°	12.8	10.3	9.1	8.7	8.1	7.7	7.9	7.5	7.5	7.5	7.3
87.5°	4.9	4.8	5.4	5.9	7.0	8.4	9.5	10.9	12.3	12.0	12.1
90°	4.9	8.5	12.1	15.7	20.8	27.4	33.9	40.5	47.1	46.5	45.8
92.5°	26.6	29.2	31.8	34.4	36.6	38.1	39.7	41.2	42.7	42.9	43.0
95°	72.9	75.9	78.8	81.9	83.6	84.3	84.8	85.4	86.1	86.1	86.1
97.5°	130.4	133.0	135.6	138.2	140.1	141.2	142.4	143.5	144.6	144.6	144.6
100°	173.1	175.5	177.9	180.3	181.9	182.8	183.7	184.6	185.5	185.5	185.5
102.5°	217.8	219.7	221.6	223.6	225.1	226.2	227.3	228.5	229.6	229.9	230.1
105°	289.9	290.8	291.7	292.6	293.4	294.0	294.5	295.2	295.8	296.3	296.9
107.5°	364.0	365.3	366.7	367.9	368.6	368.6	368.6	368.6	368.6	368.8	369.1
110°	411.8	413.6	415.4	417.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	463.4	465.2	467.0	468.8	469.6	469.3	469.1	468.9	468.6	467.9	467.2
115°	539.5	541.3	543.1	544.9	545.5	544.9	544.3	543.7	543.1	542.8	542.5
117.5°	615.9	618.3	620.7	623.1	623.5	621.8	620.1	618.4	616.8	616.1	615.4
120°	666.5	668.9	671.3	673.7	673.7	671.3	668.9	666.5	664.1	664.1	664.1
122.5°	713.2	716.0	718.9	721.8	722.4	720.8	719.1	717.4	715.7	715.0	714.3
125°	785.1	787.7	790.4	793.2	794.1	793.2	792.3	791.4	790.4	789.5	788.6
127.5°	856.0	859.3	862.8	866.2	867.4	866.3	865.2	864.2	863.1	861.9	860.9
130°	900.5	904.5	908.3	912.2	913.8	913.2	912.7	912.0	911.4	910.9	910.3
132.5°	949.3	952.4	955.6	958.8	960.5	960.6	960.6	960.8	960.9	959.6	958.3
135°	1015.6	1018.9	1022.1	1025.4	1027.3	1028.0	1028.6	1029.1	1029.7	1029.5	1029.1
137.5°	1084.6	1087.3	1089.9	1092.6	1094.4	1095.2	1095.9	1096.7	1097.5	1097.3	1097.0
140°	1126.5	1129.3	1131.9	1134.6	1136.7	1138.2	1139.7	1141.2	1142.6	1142.6	1142.6
142.5°	1169.6	1172.2	1174.9	1177.6	1179.5	1180.4	1181.5	1182.5	1183.6	1183.7	1184.0
145°	1230.8	1232.9	1234.9	1237.1	1239.0	1240.8	1242.6	1244.4	1246.2	1246.4	1246.8
147.5°	1286.3	1288.8	1291.4	1293.9	1295.7	1296.9	1298.1	1299.3	1300.5	1301.2	1301.8
150°	1323.2	1325.1	1326.9	1328.6	1330.1	1331.3	1332.5	1333.7	1334.9	1335.8	1336.7
152.5°	1356.6	1358.3	1360.1	1362.0	1363.6	1365.0	1366.5	1367.9	1369.3	1370.5	1371.5
155°	1405.7	1406.6	1407.5	1408.4	1409.3	1410.2	1411.0	1411.9	1412.8	1414.3	1415.9
157.5°	1448.1	1448.8	1449.4	1449.9	1450.5	1451.1	1451.6	1452.2	1452.7	1454.6	1456.7
160°	1474.0	1474.5	1475.2	1475.8	1476.2	1476.5	1476.8	1477.1	1477.4	1479.2	1481.0
162.5°	1497.2	1497.3	1497.4	1497.5	1497.7	1498.0	1498.3	1498.6	1498.9	1500.9	1503.0
165°	1528.2	1527.9	1527.6	1527.3	1527.1	1527.1	1527.1	1527.1	1527.1	1529.2	1531.3
167.5°	1553.9	1553.0	1552.1	1551.2	1550.8	1550.7	1550.7	1550.6	1550.5	1552.6	1554.7
170°	1567.9	1567.0	1566.1	1565.2	1564.6	1564.3	1564.1	1563.7	1563.4	1565.5	1567.6
172.5°	1577.6	1576.7	1575.8	1574.9	1574.3	1574.0	1573.7	1573.4	1573.1	1575.2	1577.3
175°	1589.4	1588.5	1587.6	1586.7	1586.0	1585.4	1584.7	1584.2	1583.6	1585.7	1587.8
177.5°	1594.5	1593.8	1593.0	1592.3	1591.7	1591.2	1590.7	1590.3	1589.7	1591.2	1592.7
180°	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	603.3	605.5	606.5	606.5	607.6	607.1	606.6
5°	638.0	641.9	642.7	646.3	649.0	648.2	648.5
7.5°	672.5	678.7	684.8	687.6	688.0	689.6	690.3
10°	693.8	698.8	708.3	706.9	714.0	718.1	711.4
12.5°	714.2	721.0	727.6	729.4	733.4	734.8	732.1
15°	732.6	736.3	736.6	735.7	736.9	735.8	732.0
17.5°	715.4	709.4	697.5	691.8	687.3	680.6	678.0
20°	686.9	669.4	649.2	641.1	631.6	613.0	617.4
22.5°	625.3	605.5	585.1	561.5	550.2	532.5	531.5
25°	529.5	495.3	457.5	431.2	415.8	398.2	390.5
27.5°	411.7	368.5	337.7	322.1	307.8	293.9	293.3
30°	334.2	301.8	277.9	264.6	255.8	249.9	251.2
32.5°	281.7	259.5	243.3	232.3	225.9	221.4	221.3
35°	230.3	215.1	204.7	200.1	195.5	192.3	192.4
37.5°	197.1	188.0	182.2	177.1	174.2	172.5	171.7
40°	180.0	172.5	168.1	165.1	162.6	160.4	160.0
42.5°	166.7	160.4	156.0	153.6	151.3	149.7	149.4
45°	147.8	142.8	138.8	136.1	135.1	133.7	133.7
47.5°	131.5	126.5	123.4	121.7	120.0	119.0	119.0
50°	120.6	116.6	113.9	112.8	111.4	110.8	110.6
52.5°	110.7	107.7	105.8	105.0	104.4	103.7	103.8
55°	97.2	95.6	94.8	94.2	93.2	91.9	92.7
57.5°	86.0	84.5	82.4	80.4	79.5	78.6	79.0
60°	78.0	75.2	72.3	70.1	69.5	67.7	67.7
62.5°	67.9	63.9	60.5	59.2	58.6	57.8	57.6
65°	52.3	50.6	49.8	49.0	48.6	48.6	48.2
67.5°	43.3	42.6	41.7	41.6	41.2	41.0	40.9
70°	38.3	37.5	37.1	36.8	36.5	36.6	36.0
72.5°	33.4	32.8	32.7	32.2	31.9	31.9	31.5
75°	26.3	26.3	26.1	25.9	25.5	25.3	25.5
77.5°	20.2	20.3	20.0	19.9	19.9	19.9	19.7
80°	16.2	16.4	16.2	16.0	15.8	16.0	15.8
82.5°	12.8	12.5	12.5	12.4	12.4	12.3	12.2
85°	7.3	7.5	7.3	7.1	7.1	7.1	7.3
87.5°	11.8	11.7	11.7	11.7	11.8	11.9	11.8
90°	45.3	44.7	44.5	44.9	45.1	45.4	45.7
92.5°	43.1	43.2	43.3	43.3	43.4	43.5	43.5
95°	86.1	86.1	85.7	85.2	84.5	83.9	83.4
97.5°	144.6	144.6	144.6	144.5	144.5	144.5	144.4
100°	185.5	185.5	185.4	185.0	184.8	184.5	184.1
102.5°	230.3	230.6	230.5	230.2	230.0	229.6	229.3
105°	297.6	298.1	298.5	298.5	298.5	298.5	298.5
107.5°	369.3	369.5	369.0	367.7	366.2	364.9	363.5
110°	418.1	418.1	417.6	416.7	415.8	414.9	414.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	466.5	465.7	465.0	464.4	463.8	463.1	462.4
115°	542.2	541.9	541.3	540.4	539.5	538.6	537.7
117.5°	614.7	613.9	613.1	612.2	611.3	610.4	609.5
120°	664.1	664.1	663.6	662.7	661.8	660.9	660.0
122.5°	713.5	712.8	712.1	711.5	710.9	710.2	709.5
125°	787.7	786.8	786.3	786.0	785.7	785.4	785.1
127.5°	859.8	858.7	857.7	856.8	855.8	854.9	853.9
130°	909.6	909.0	908.1	907.0	905.8	904.6	903.4
132.5°	957.0	955.6	954.5	953.6	952.6	951.6	950.7
135°	1028.9	1028.6	1028.0	1027.1	1026.2	1025.3	1024.4
137.5°	1096.8	1096.5	1095.8	1094.7	1093.4	1092.3	1091.0
140°	1142.6	1142.6	1142.1	1140.9	1139.7	1138.4	1137.3
142.5°	1184.3	1184.5	1184.0	1182.9	1181.6	1180.4	1179.2
145°	1247.1	1247.3	1246.9	1245.7	1244.6	1243.3	1242.2
147.5°	1302.4	1303.1	1302.9	1301.7	1300.6	1299.5	1298.3
150°	1337.6	1338.5	1338.5	1337.6	1336.7	1335.8	1334.9
152.5°	1372.7	1373.9	1373.9	1372.7	1371.5	1370.5	1369.3
155°	1417.4	1418.8	1419.2	1418.3	1417.4	1416.5	1415.6
157.5°	1458.7	1460.8	1461.1	1459.6	1458.2	1456.8	1455.4
160°	1482.7	1484.5	1484.9	1483.6	1482.5	1481.3	1480.1
162.5°	1505.0	1507.0	1507.3	1505.9	1504.5	1503.1	1501.6
165°	1533.4	1535.5	1535.8	1534.3	1532.9	1531.3	1529.8
167.5°	1556.8	1558.9	1559.2	1557.6	1556.0	1554.5	1552.9
170°	1569.7	1571.8	1571.9	1570.1	1568.3	1566.6	1564.8
172.5°	1579.4	1581.4	1581.6	1579.8	1578.1	1576.3	1574.5
175°	1589.8	1592.0	1592.1	1590.3	1588.5	1586.7	1584.9
177.5°	1594.1	1595.5	1595.5	1594.1	1592.7	1591.2	1589.7
180°	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0

(END OF REPORT)