

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: P331781-940

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331781-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
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-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1440 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6148.1 lumens
Efficiency: N/A
Efficacy: 115.1 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

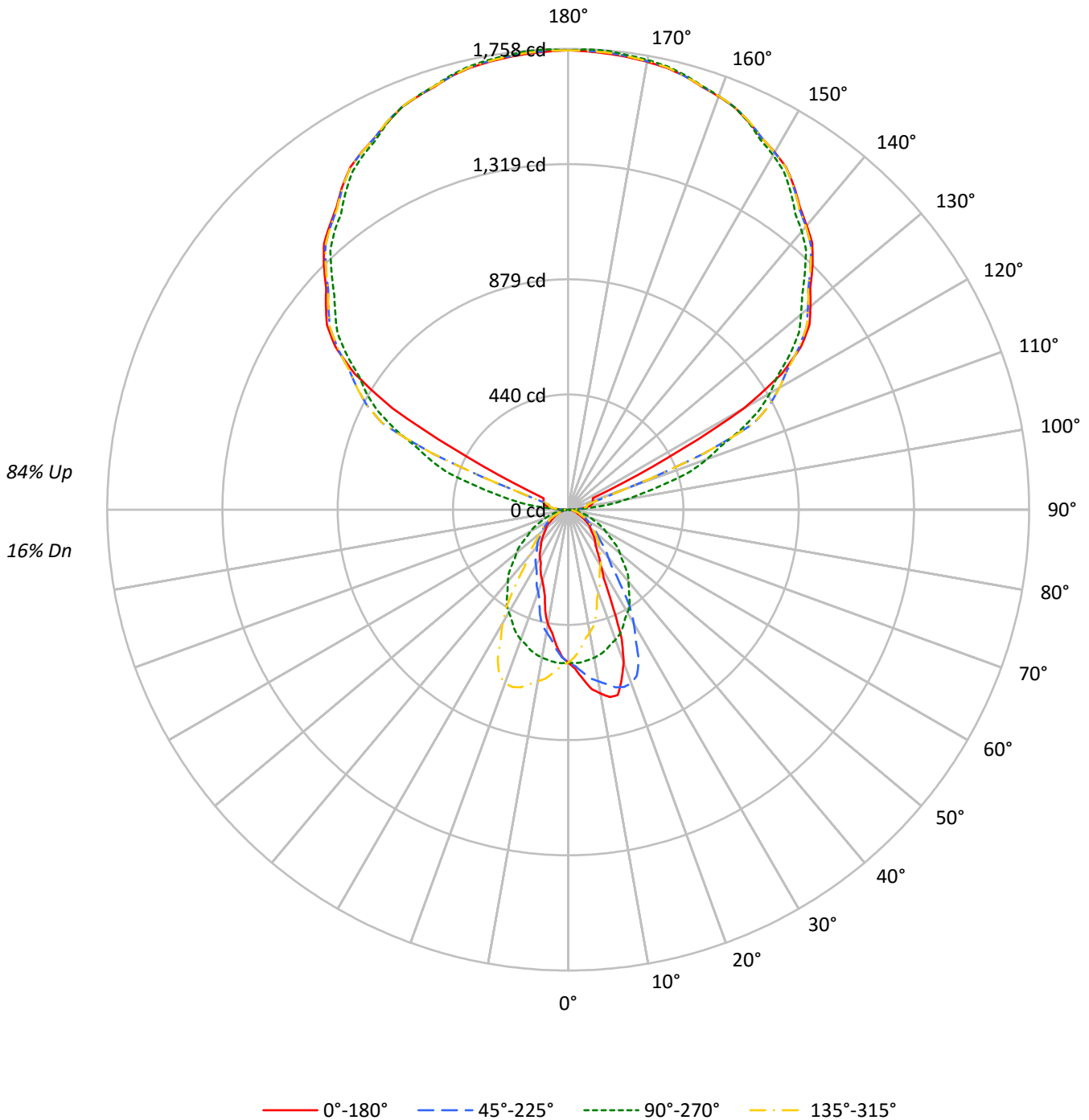
Input Watts (W): 53.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331781-940

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

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	99	99	99	99	87	87	87	87	65	65	65	44	44	44	25	25	25	16
1	91	86	83	80	79	76	73	71	57	55	53	39	38	37	23	22	22	14
2	83	76	70	65	72	67	62	58	50	47	44	35	33	31	20	19	19	12
3	75	67	60	55	66	59	53	49	44	41	38	31	29	27	18	17	16	11
4	69	59	52	46	60	52	46	41	39	35	32	28	25	23	16	15	14	10
5	63	53	45	40	55	47	40	36	35	31	28	25	22	20	15	14	12	9
6	58	47	40	34	51	42	35	31	32	27	24	22	20	18	14	12	11	8
7	54	42	35	30	47	38	31	27	29	24	21	20	18	16	12	11	10	7
8	50	38	31	26	44	34	28	24	26	22	19	19	16	14	11	10	9	6
9	46	35	28	23	41	31	25	21	24	20	17	17	14	12	11	9	8	6
10	43	32	25	21	38	28	23	19	22	18	15	16	13	11	10	8	7	5

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



TEST NUMBER: P331781-940

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	0.9
10°-20°	154.0	2.5
20°-30°	198.4	3.2
30°-40°	188.6	3.1
40°-50°	161.5	2.6
50°-60°	123.0	2.0
60°-70°	77.8	1.3
70°-80°	38.8	0.6
80°-90°	14.4	0.2
90°-100°	58.5	1.0
100°-110°	214.4	3.5
110°-120°	573.1	9.3
120°-130°	946.0	15.4
130°-140°	1006.1	16.4
140°-150°	935.1	15.2
150°-160°	751.8	12.2
160°-170°	484.5	7.9
170°-180°	166.8	2.7
0°-30°	407.7	6.6
0°-40°	596.2	9.7
0°-60°	880.8	14.3
0°-90°	1011.8	16.5
90°-120°	846.0	13.8
90°-150°	3733.2	60.7
90°-180°	5136.0	83.5
0°-180°	6148.1	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°	34	1	34	1	34	15
95°	55	82	55	82	55	51
105°	96	386	96	386	96	100
115°	104	729	104	729	104	260
125°	1084	1031	1084	1031	1084	938
135°	1318	1276	1318	1276	1318	1016
145°	1503	1480	1503	1480	1503	940
155°	1631	1630	1631	1630	1631	753
165°	1713	1717	1713	1717	1713	484
175°	1746	1756	1746	1756	1746	166
180°	1753	1753	1753	1753	1753	



TEST NUMBER: P331781-940

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

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°	9.5	9.5	9.4	9.3	9.2	8.9	8.6	8.6	8.1	8.0	7.4
90°	34.2	33.7	33.1	32.5	32.0	31.0	29.6	28.2	26.8	25.3	23.1
92.5°	34.2	33.9	33.5	33.3	32.9	32.4	31.7	30.9	30.1	29.4	28.3
95°	54.6	54.8	55.1	55.4	55.6	55.1	53.7	52.3	50.8	49.5	47.5
97.5°	72.8	72.5	72.1	71.8	71.4	70.7	69.6	68.5	67.3	66.2	61.6
100°	85.0	84.4	83.8	83.3	82.8	81.3	79.1	76.8	74.5	72.3	67.5
102.5°	91.0	90.2	89.4	88.7	87.9	86.1	83.1	80.2	77.2	74.3	114.4
105°	96.4	95.2	94.2	93.0	91.8	89.8	86.7	83.6	80.4	77.4	154.3
107.5°	99.2	98.1	96.9	95.8	94.7	95.7	98.8	102.0	105.1	108.3	200.5
110°	100.2	99.1	97.9	96.8	95.7	109.2	137.4	165.6	193.8	221.9	303.4



TEST NUMBER: P331781-940

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

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	101.2	100.3	99.4	98.5	97.6	148.6	251.4	354.2	457.0	559.8	579.9
115°	104.0	124.3	144.5	164.9	185.1	260.6	391.0	521.6	652.0	782.5	775.4
117.5°	424.6	491.2	557.9	624.6	691.3	740.5	772.0	803.6	835.2	866.7	861.8
120°	773.6	811.6	849.7	887.8	925.8	943.2	939.8	936.4	933.0	929.6	924.5
122.5°	965.4	972.8	980.2	987.5	994.9	997.6	995.6	993.5	991.5	989.4	983.9
125°	1084.3	1083.5	1082.6	1081.8	1080.9	1079.5	1077.5	1075.6	1073.6	1071.7	1066.3
127.5°	1159.4	1159.2	1159.0	1158.9	1158.8	1157.2	1154.3	1151.5	1148.6	1145.8	1141.7
130°	1206.0	1206.4	1206.7	1206.9	1207.2	1205.8	1202.7	1199.6	1196.5	1193.4	1190.3
132.5°	1251.7	1252.1	1252.3	1252.6	1252.9	1251.7	1249.0	1246.3	1243.8	1241.1	1238.0
135°	1317.7	1318.2	1318.8	1319.4	1319.9	1318.8	1316.0	1313.1	1310.4	1307.5	1305.0
137.5°	1377.8	1378.8	1379.7	1380.6	1381.6	1380.7	1378.0	1375.2	1372.4	1369.7	1366.8
140°	1415.3	1416.8	1418.2	1419.6	1420.9	1420.4	1417.9	1415.3	1412.8	1410.2	1407.2
142.5°	1451.9	1453.3	1454.6	1456.1	1457.5	1457.1	1454.7	1452.4	1450.1	1447.8	1444.2
145°	1502.9	1504.2	1505.7	1507.1	1508.5	1508.2	1506.2	1504.2	1502.3	1500.3	1495.5
147.5°	1547.7	1548.9	1550.2	1551.3	1552.5	1552.4	1550.9	1549.4	1547.9	1546.5	1541.8
150°	1575.1	1576.5	1578.0	1579.4	1580.7	1580.6	1579.0	1577.3	1575.6	1573.9	1569.3
152.5°	1598.5	1600.4	1602.2	1604.0	1605.9	1606.0	1604.3	1602.6	1600.9	1599.2	1594.9
155°	1630.9	1633.2	1635.5	1637.7	1639.9	1640.2	1638.5	1636.8	1635.1	1633.4	1630.1
157.5°	1660.6	1662.8	1665.0	1667.2	1669.4	1669.6	1667.6	1665.7	1663.8	1661.9	1659.5
160°	1677.8	1679.8	1681.8	1683.8	1685.8	1685.9	1684.2	1682.5	1680.8	1679.1	1677.4
162.5°	1692.1	1694.5	1696.9	1699.3	1701.7	1702.0	1700.1	1698.2	1696.3	1694.3	1692.9
165°	1713.3	1715.4	1717.3	1719.3	1721.3	1721.3	1719.3	1717.3	1715.4	1713.3	1712.5
167.5°	1726.8	1729.4	1731.9	1734.5	1737.0	1737.2	1735.3	1733.3	1731.3	1729.4	1728.6
170°	1734.9	1737.5	1740.0	1742.6	1745.1	1745.3	1743.4	1741.4	1739.5	1737.5	1736.9
172.5°	1741.0	1743.6	1746.1	1748.6	1751.1	1751.4	1749.4	1747.5	1745.5	1743.6	1743.0
175°	1746.3	1749.2	1751.9	1754.8	1757.7	1758.0	1756.0	1754.1	1752.1	1750.2	1749.6
177.5°	1749.6	1751.7	1753.7	1755.7	1757.7	1758.0	1756.4	1754.8	1753.3	1751.7	1751.4
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7



TEST NUMBER: P331781-940

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

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°	7.0	6.6	6.2	5.5	5.0	4.5	4.7	5.0	4.9	5.1	5.4
90°	20.9	18.6	16.3	13.6	10.6	7.5	4.4	1.2	4.4	7.5	10.6
92.5°	27.2	26.0	24.9	24.5	24.8	25.1	25.3	25.6	25.3	25.1	24.8
95°	45.5	43.5	41.6	45.2	54.6	63.8	73.1	82.4	73.1	63.8	54.6
97.5°	57.1	52.5	48.0	58.8	85.0	111.2	137.4	163.6	137.4	111.2	85.0
100°	62.7	57.9	53.1	70.0	108.6	147.2	185.8	224.4	185.8	147.2	108.6
102.5°	154.4	194.6	234.6	258.8	266.9	275.1	283.3	291.4	283.3	275.1	266.9
105°	231.2	308.2	385.1	419.4	410.9	402.4	394.0	385.6	394.0	402.4	410.9
107.5°	292.8	385.1	477.4	520.1	513.3	506.5	499.6	492.8	499.6	506.5	513.3
110°	384.9	466.3	547.7	585.5	579.6	573.6	567.8	561.9	567.8	573.6	579.6



TEST NUMBER: P331781-940

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	600.0	620.2	640.2	647.7	642.5	637.2	632.0	626.8	632.0	637.2	642.5
115°	768.4	761.3	754.3	748.4	743.6	738.8	734.1	729.2	734.1	738.8	743.6
117.5°	857.0	852.1	847.3	842.2	836.9	831.5	826.2	820.8	826.2	831.5	836.9
120°	919.4	914.4	909.3	904.6	900.4	896.2	892.0	887.8	892.0	896.2	900.4
122.5°	978.4	972.9	967.4	962.4	958.0	953.5	949.0	944.6	949.0	953.5	958.0
125°	1061.0	1055.6	1050.3	1045.7	1042.1	1038.4	1034.7	1031.1	1034.7	1038.4	1042.1
127.5°	1137.7	1133.7	1129.7	1125.7	1121.6	1117.6	1113.5	1109.5	1113.5	1117.6	1121.6
130°	1187.2	1184.1	1181.0	1177.2	1172.7	1168.1	1163.7	1159.1	1163.7	1168.1	1172.7
132.5°	1234.8	1231.8	1228.7	1225.2	1221.4	1217.5	1213.7	1209.9	1213.7	1217.5	1221.4
135°	1302.4	1299.9	1297.4	1293.9	1289.3	1284.9	1280.3	1275.9	1280.3	1284.9	1289.3
137.5°	1364.0	1361.0	1358.2	1355.1	1352.0	1348.9	1345.7	1342.6	1345.7	1348.9	1352.0
140°	1404.1	1401.0	1397.8	1395.2	1392.9	1390.7	1388.4	1386.2	1388.4	1390.7	1392.9
142.5°	1440.7	1437.2	1433.6	1430.8	1428.8	1426.7	1424.7	1422.7	1424.7	1426.7	1428.8
145°	1490.8	1485.9	1481.1	1478.9	1479.2	1479.4	1479.7	1480.1	1479.7	1479.4	1479.2
147.5°	1537.0	1532.2	1527.5	1525.7	1526.8	1527.9	1528.9	1530.0	1528.9	1527.9	1526.8
150°	1564.9	1560.3	1555.9	1554.5	1556.6	1558.5	1560.5	1562.5	1560.5	1558.5	1556.6
152.5°	1590.6	1586.4	1582.1	1581.1	1583.2	1585.5	1587.7	1589.8	1587.7	1585.5	1583.2
155°	1626.7	1623.4	1620.0	1619.5	1622.0	1624.6	1627.1	1629.7	1627.1	1624.6	1622.0
157.5°	1657.2	1654.7	1652.4	1652.3	1654.5	1656.6	1658.8	1660.9	1658.8	1656.6	1654.5
160°	1675.8	1674.1	1672.4	1672.4	1674.1	1675.8	1677.4	1679.1	1677.4	1675.8	1674.1
162.5°	1691.4	1690.0	1688.5	1688.6	1690.3	1692.0	1693.7	1695.3	1693.7	1692.0	1690.3
165°	1711.6	1710.8	1710.0	1710.4	1712.1	1713.8	1715.5	1717.2	1715.5	1713.8	1712.1
167.5°	1727.8	1727.0	1726.2	1726.6	1728.3	1730.0	1731.7	1733.4	1731.7	1730.0	1728.3
170°	1736.3	1735.8	1735.2	1735.8	1737.5	1739.2	1740.9	1742.6	1740.9	1739.2	1737.5
172.5°	1742.4	1741.9	1741.3	1741.9	1743.6	1745.3	1747.0	1748.6	1747.0	1745.3	1743.6
175°	1749.0	1748.5	1747.9	1748.6	1750.6	1752.6	1754.5	1756.5	1754.5	1752.6	1750.6
177.5°	1751.2	1751.0	1750.8	1751.4	1753.0	1754.6	1756.2	1757.7	1756.2	1754.6	1753.0
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7



TEST NUMBER: P331781-940

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

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°	5.8	6.2	6.3	6.8	7.2	7.5	7.8	7.9	8.2	8.5	8.5
90°	13.6	16.3	18.6	20.9	23.1	25.3	26.8	28.2	29.6	31.0	32.0
92.5°	24.5	24.9	26.0	27.2	28.3	29.4	30.1	30.9	31.7	32.4	32.9
95°	45.2	41.6	43.5	45.5	47.5	49.5	50.8	52.3	53.7	55.1	55.6
97.5°	58.8	48.0	52.5	57.1	61.6	66.2	67.3	68.5	69.6	70.7	71.4
100°	70.0	53.1	57.9	62.7	67.5	72.3	74.5	76.8	79.1	81.3	82.8
102.5°	258.8	234.6	194.6	154.4	114.4	74.3	77.2	80.2	83.1	86.1	87.9
105°	419.4	385.1	308.2	231.2	154.3	77.4	80.4	83.6	86.7	89.8	91.8
107.5°	520.1	477.4	385.1	292.8	200.5	108.3	105.1	102.0	98.8	95.7	94.7
110°	585.5	547.7	466.3	384.9	303.4	221.9	193.8	165.6	137.4	109.2	95.7



TEST NUMBER: P331781-940

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	647.7	640.2	620.2	600.0	579.9	559.8	457.0	354.2	251.4	148.6	97.6
115°	748.4	754.3	761.3	768.4	775.4	782.5	652.0	521.6	391.0	260.6	185.1
117.5°	842.2	847.3	852.1	857.0	861.8	866.7	835.2	803.6	772.0	740.5	691.3
120°	904.6	909.3	914.4	919.4	924.5	929.6	933.0	936.4	939.8	943.2	925.8
122.5°	962.4	967.4	972.9	978.4	983.9	989.4	991.5	993.5	995.6	997.6	994.9
125°	1045.7	1050.3	1055.6	1061.0	1066.3	1071.7	1073.6	1075.6	1077.5	1079.5	1080.9
127.5°	1125.7	1129.7	1133.7	1137.7	1141.7	1145.8	1148.6	1151.5	1154.3	1157.2	1158.8
130°	1177.2	1181.0	1184.1	1187.2	1190.3	1193.4	1196.5	1199.6	1202.7	1205.8	1207.2
132.5°	1225.2	1228.7	1231.8	1234.8	1238.0	1241.1	1243.8	1246.3	1249.0	1251.7	1252.9
135°	1293.9	1297.4	1299.9	1302.4	1305.0	1307.5	1310.4	1313.1	1316.0	1318.8	1319.9
137.5°	1355.1	1358.2	1361.0	1364.0	1366.8	1369.7	1372.4	1375.2	1378.0	1380.7	1381.6
140°	1395.2	1397.8	1401.0	1404.1	1407.2	1410.2	1412.8	1415.3	1417.9	1420.4	1420.9
142.5°	1430.8	1433.6	1437.2	1440.7	1444.2	1447.8	1450.1	1452.4	1454.7	1457.1	1457.5
145°	1478.9	1481.1	1485.9	1490.8	1495.5	1500.3	1502.3	1504.2	1506.2	1508.2	1508.5
147.5°	1525.7	1527.5	1532.2	1537.0	1541.8	1546.5	1547.9	1549.4	1550.9	1552.4	1552.5
150°	1554.5	1555.9	1560.3	1564.9	1569.3	1573.9	1575.6	1577.3	1579.0	1580.6	1580.7
152.5°	1581.1	1582.1	1586.4	1590.6	1594.9	1599.2	1600.9	1602.6	1604.3	1606.0	1605.9
155°	1619.5	1620.0	1623.4	1626.7	1630.1	1633.4	1635.1	1636.8	1638.5	1640.2	1639.9
157.5°	1652.3	1652.4	1654.7	1657.2	1659.5	1661.9	1663.8	1665.7	1667.6	1669.6	1669.4
160°	1672.4	1672.4	1674.1	1675.8	1677.4	1679.1	1680.8	1682.5	1684.2	1685.9	1685.8
162.5°	1688.6	1688.5	1690.0	1691.4	1692.9	1694.3	1696.3	1698.2	1700.1	1702.0	1701.7
165°	1710.4	1710.0	1710.8	1711.6	1712.5	1713.3	1715.4	1717.3	1719.3	1721.3	1721.3
167.5°	1726.6	1726.2	1727.0	1727.8	1728.6	1729.4	1731.3	1733.3	1735.3	1737.2	1737.0
170°	1735.8	1735.2	1735.8	1736.3	1736.9	1737.5	1739.5	1741.4	1743.4	1745.3	1745.1
172.5°	1741.9	1741.3	1741.9	1742.4	1743.0	1743.6	1745.5	1747.5	1749.4	1751.4	1751.1
175°	1748.6	1747.9	1748.5	1749.0	1749.6	1750.2	1752.1	1754.1	1756.0	1758.0	1757.7
177.5°	1751.4	1750.8	1751.0	1751.2	1751.4	1751.7	1753.3	1754.8	1756.4	1758.0	1757.7
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7



TEST NUMBER: P331781-940

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

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°	8.6	8.6	8.8	8.8	8.8	8.6	8.6	8.5	8.5	8.2	7.9
90°	32.5	33.1	33.7	34.2	33.7	33.1	32.5	32.0	31.0	29.6	28.2
92.5°	33.3	33.5	33.9	34.2	33.9	33.5	33.3	32.9	32.4	31.7	30.9
95°	55.4	55.1	54.8	54.6	54.8	55.1	55.4	55.6	55.1	53.7	52.3
97.5°	71.8	72.1	72.5	72.8	72.5	72.1	71.8	71.4	70.7	69.6	68.5
100°	83.3	83.8	84.4	85.0	84.4	83.8	83.3	82.8	81.3	79.1	76.8
102.5°	88.7	89.4	90.2	91.0	90.2	89.4	88.7	87.9	86.1	83.1	80.2
105°	93.0	94.2	95.2	96.4	95.2	94.2	93.0	91.8	89.8	86.7	83.6
107.5°	95.8	96.9	98.1	99.2	98.1	96.9	95.8	94.7	95.7	98.8	102.0
110°	96.8	97.9	99.1	100.2	99.1	97.9	96.8	95.7	109.2	137.4	165.6



TEST NUMBER: P331781-940

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	98.5	99.4	100.3	101.2	100.3	99.4	98.5	97.6	148.6	251.4	354.2
115°	164.9	144.5	124.3	104.0	124.3	144.5	164.9	185.1	260.6	391.0	521.6
117.5°	624.6	557.9	491.2	424.6	491.2	557.9	624.6	691.3	740.5	772.0	803.6
120°	887.8	849.7	811.6	773.6	811.6	849.7	887.8	925.8	943.2	939.8	936.4
122.5°	987.5	980.2	972.8	965.4	972.8	980.2	987.5	994.9	997.6	995.6	993.5
125°	1081.8	1082.6	1083.5	1084.3	1083.5	1082.6	1081.8	1080.9	1079.5	1077.5	1075.6
127.5°	1158.9	1159.0	1159.2	1159.4	1159.2	1159.0	1158.9	1158.8	1157.2	1154.3	1151.5
130°	1206.9	1206.7	1206.4	1206.0	1206.4	1206.7	1206.9	1207.2	1205.8	1202.7	1199.6
132.5°	1252.6	1252.3	1252.1	1251.7	1252.1	1252.3	1252.6	1252.9	1251.7	1249.0	1246.3
135°	1319.4	1318.8	1318.2	1317.7	1318.2	1318.8	1319.4	1319.9	1318.8	1316.0	1313.1
137.5°	1380.6	1379.7	1378.8	1377.8	1378.8	1379.7	1380.6	1381.6	1380.7	1378.0	1375.2
140°	1419.6	1418.2	1416.8	1415.3	1416.8	1418.2	1419.6	1420.9	1420.4	1417.9	1415.3
142.5°	1456.1	1454.6	1453.3	1451.9	1453.3	1454.6	1456.1	1457.5	1457.1	1454.7	1452.4
145°	1507.1	1505.7	1504.2	1502.9	1504.2	1505.7	1507.1	1508.5	1508.2	1506.2	1504.2
147.5°	1551.3	1550.2	1548.9	1547.7	1548.9	1550.2	1551.3	1552.5	1552.4	1550.9	1549.4
150°	1579.4	1578.0	1576.5	1575.1	1576.5	1578.0	1579.4	1580.7	1580.6	1579.0	1577.3
152.5°	1604.0	1602.2	1600.4	1598.5	1600.4	1602.2	1604.0	1605.9	1606.0	1604.3	1602.6
155°	1637.7	1635.5	1633.2	1630.9	1633.2	1635.5	1637.7	1639.9	1640.2	1638.5	1636.8
157.5°	1667.2	1665.0	1662.8	1660.6	1662.8	1665.0	1667.2	1669.4	1669.6	1667.6	1665.7
160°	1683.8	1681.8	1679.8	1677.8	1679.8	1681.8	1683.8	1685.8	1685.9	1684.2	1682.5
162.5°	1699.3	1696.9	1694.5	1692.1	1694.5	1696.9	1699.3	1701.7	1702.0	1700.1	1698.2
165°	1719.3	1717.3	1715.4	1713.3	1715.4	1717.3	1719.3	1721.3	1721.3	1719.3	1717.3
167.5°	1734.5	1731.9	1729.4	1726.8	1729.4	1731.9	1734.5	1737.0	1737.2	1735.3	1733.3
170°	1742.6	1740.0	1737.5	1734.9	1737.5	1740.0	1742.6	1745.1	1745.3	1743.4	1741.4
172.5°	1748.6	1746.1	1743.6	1741.0	1743.6	1746.1	1748.6	1751.1	1751.4	1749.4	1747.5
175°	1754.8	1751.9	1749.2	1746.3	1749.2	1751.9	1754.8	1757.7	1758.0	1756.0	1754.1
177.5°	1755.7	1753.7	1751.7	1749.6	1751.7	1753.7	1755.7	1757.7	1758.0	1756.4	1754.8
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7



TEST NUMBER: P331781-940

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

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°	7.8	7.5	7.2	6.8	6.3	6.2	5.8	5.4	5.1	4.9	5.0
90°	26.8	25.3	23.1	20.9	18.6	16.3	13.6	10.6	7.5	4.4	1.2
92.5°	30.1	29.4	28.3	27.2	26.0	24.9	24.5	24.8	25.1	25.3	25.6
95°	50.8	49.5	47.5	45.5	43.5	41.6	45.2	54.6	63.8	73.1	82.4
97.5°	67.3	66.2	61.6	57.1	52.5	48.0	58.8	85.0	111.2	137.4	163.6
100°	74.5	72.3	67.5	62.7	57.9	53.1	70.0	108.6	147.2	185.8	224.4
102.5°	77.2	74.3	114.4	154.4	194.6	234.6	258.8	266.9	275.1	283.3	291.4
105°	80.4	77.4	154.3	231.2	308.2	385.1	419.4	410.9	402.4	394.0	385.6
107.5°	105.1	108.3	200.5	292.8	385.1	477.4	520.1	513.3	506.5	499.6	492.8
110°	193.8	221.9	303.4	384.9	466.3	547.7	585.5	579.6	573.6	567.8	561.9



TEST NUMBER: P331781-940

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	457.0	559.8	579.9	600.0	620.2	640.2	647.7	642.5	637.2	632.0	626.8
115°	652.0	782.5	775.4	768.4	761.3	754.3	748.4	743.6	738.8	734.1	729.2
117.5°	835.2	866.7	861.8	857.0	852.1	847.3	842.2	836.9	831.5	826.2	820.8
120°	933.0	929.6	924.5	919.4	914.4	909.3	904.6	900.4	896.2	892.0	887.8
122.5°	991.5	989.4	983.9	978.4	972.9	967.4	962.4	958.0	953.5	949.0	944.6
125°	1073.6	1071.7	1066.3	1061.0	1055.6	1050.3	1045.7	1042.1	1038.4	1034.7	1031.1
127.5°	1148.6	1145.8	1141.7	1137.7	1133.7	1129.7	1125.7	1121.6	1117.6	1113.5	1109.5
130°	1196.5	1193.4	1190.3	1187.2	1184.1	1181.0	1177.2	1172.7	1168.1	1163.7	1159.1
132.5°	1243.8	1241.1	1238.0	1234.8	1231.8	1228.7	1225.2	1221.4	1217.5	1213.7	1209.9
135°	1310.4	1307.5	1305.0	1302.4	1299.9	1297.4	1293.9	1289.3	1284.9	1280.3	1275.9
137.5°	1372.4	1369.7	1366.8	1364.0	1361.0	1358.2	1355.1	1352.0	1348.9	1345.7	1342.6
140°	1412.8	1410.2	1407.2	1404.1	1401.0	1397.8	1395.2	1392.9	1390.7	1388.4	1386.2
142.5°	1450.1	1447.8	1444.2	1440.7	1437.2	1433.6	1430.8	1428.8	1426.7	1424.7	1422.7
145°	1502.3	1500.3	1495.5	1490.8	1485.9	1481.1	1478.9	1479.2	1479.4	1479.7	1480.1
147.5°	1547.9	1546.5	1541.8	1537.0	1532.2	1527.5	1525.7	1526.8	1527.9	1528.9	1530.0
150°	1575.6	1573.9	1569.3	1564.9	1560.3	1555.9	1554.5	1556.6	1558.5	1560.5	1562.5
152.5°	1600.9	1599.2	1594.9	1590.6	1586.4	1582.1	1581.1	1583.2	1585.5	1587.7	1589.8
155°	1635.1	1633.4	1630.1	1626.7	1623.4	1620.0	1619.5	1622.0	1624.6	1627.1	1629.7
157.5°	1663.8	1661.9	1659.5	1657.2	1654.7	1652.4	1652.3	1654.5	1656.6	1658.8	1660.9
160°	1680.8	1679.1	1677.4	1675.8	1674.1	1672.4	1672.4	1674.1	1675.8	1677.4	1679.1
162.5°	1696.3	1694.3	1692.9	1691.4	1690.0	1688.5	1688.6	1690.3	1692.0	1693.7	1695.3
165°	1715.4	1713.3	1712.5	1711.6	1710.8	1710.0	1710.4	1712.1	1713.8	1715.5	1717.2
167.5°	1731.3	1729.4	1728.6	1727.8	1727.0	1726.2	1726.6	1728.3	1730.0	1731.7	1733.4
170°	1739.5	1737.5	1736.9	1736.3	1735.8	1735.2	1735.8	1737.5	1739.2	1740.9	1742.6
172.5°	1745.5	1743.6	1743.0	1742.4	1741.9	1741.3	1741.9	1743.6	1745.3	1747.0	1748.6
175°	1752.1	1750.2	1749.6	1749.0	1748.5	1747.9	1748.6	1750.6	1752.6	1754.5	1756.5
177.5°	1753.3	1751.7	1751.4	1751.2	1751.0	1750.8	1751.4	1753.0	1754.6	1756.2	1757.7
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7



TEST NUMBER: P331781-940

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

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°	4.7	4.5	5.0	5.5	6.2	6.6	7.0	7.4	8.0	8.1	8.6
90°	4.4	7.5	10.6	13.6	16.3	18.6	20.9	23.1	25.3	26.8	28.2
92.5°	25.3	25.1	24.8	24.5	24.9	26.0	27.2	28.3	29.4	30.1	30.9
95°	73.1	63.8	54.6	45.2	41.6	43.5	45.5	47.5	49.5	50.8	52.3
97.5°	137.4	111.2	85.0	58.8	48.0	52.5	57.1	61.6	66.2	67.3	68.5
100°	185.8	147.2	108.6	70.0	53.1	57.9	62.7	67.5	72.3	74.5	76.8
102.5°	283.3	275.1	266.9	258.8	234.6	194.6	154.4	114.4	74.3	77.2	80.2
105°	394.0	402.4	410.9	419.4	385.1	308.2	231.2	154.3	77.4	80.4	83.6
107.5°	499.6	506.5	513.3	520.1	477.4	385.1	292.8	200.5	108.3	105.1	102.0
110°	567.8	573.6	579.6	585.5	547.7	466.3	384.9	303.4	221.9	193.8	165.6



TEST NUMBER: P331781-940

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	632.0	637.2	642.5	647.7	640.2	620.2	600.0	579.9	559.8	457.0	354.2
115°	734.1	738.8	743.6	748.4	754.3	761.3	768.4	775.4	782.5	652.0	521.6
117.5°	826.2	831.5	836.9	842.2	847.3	852.1	857.0	861.8	866.7	835.2	803.6
120°	892.0	896.2	900.4	904.6	909.3	914.4	919.4	924.5	929.6	933.0	936.4
122.5°	949.0	953.5	958.0	962.4	967.4	972.9	978.4	983.9	989.4	991.5	993.5
125°	1034.7	1038.4	1042.1	1045.7	1050.3	1055.6	1061.0	1066.3	1071.7	1073.6	1075.6
127.5°	1113.5	1117.6	1121.6	1125.7	1129.7	1133.7	1137.7	1141.7	1145.8	1148.6	1151.5
130°	1163.7	1168.1	1172.7	1177.2	1181.0	1184.1	1187.2	1190.3	1193.4	1196.5	1199.6
132.5°	1213.7	1217.5	1221.4	1225.2	1228.7	1231.8	1234.8	1238.0	1241.1	1243.8	1246.3
135°	1280.3	1284.9	1289.3	1293.9	1297.4	1299.9	1302.4	1305.0	1307.5	1310.4	1313.1
137.5°	1345.7	1348.9	1352.0	1355.1	1358.2	1361.0	1364.0	1366.8	1369.7	1372.4	1375.2
140°	1388.4	1390.7	1392.9	1395.2	1397.8	1401.0	1404.1	1407.2	1410.2	1412.8	1415.3
142.5°	1424.7	1426.7	1428.8	1430.8	1433.6	1437.2	1440.7	1444.2	1447.8	1450.1	1452.4
145°	1479.7	1479.4	1479.2	1478.9	1481.1	1485.9	1490.8	1495.5	1500.3	1502.3	1504.2
147.5°	1528.9	1527.9	1526.8	1525.7	1527.5	1532.2	1537.0	1541.8	1546.5	1547.9	1549.4
150°	1560.5	1558.5	1556.6	1554.5	1555.9	1560.3	1564.9	1569.3	1573.9	1575.6	1577.3
152.5°	1587.7	1585.5	1583.2	1581.1	1582.1	1586.4	1590.6	1594.9	1599.2	1600.9	1602.6
155°	1627.1	1624.6	1622.0	1619.5	1620.0	1623.4	1626.7	1630.1	1633.4	1635.1	1636.8
157.5°	1658.8	1656.6	1654.5	1652.3	1652.4	1654.7	1657.2	1659.5	1661.9	1663.8	1665.7
160°	1677.4	1675.8	1674.1	1672.4	1672.4	1674.1	1675.8	1677.4	1679.1	1680.8	1682.5
162.5°	1693.7	1692.0	1690.3	1688.6	1688.5	1690.0	1691.4	1692.9	1694.3	1696.3	1698.2
165°	1715.5	1713.8	1712.1	1710.4	1710.0	1710.8	1711.6	1712.5	1713.3	1715.4	1717.3
167.5°	1731.7	1730.0	1728.3	1726.6	1726.2	1727.0	1727.8	1728.6	1729.4	1731.3	1733.3
170°	1740.9	1739.2	1737.5	1735.8	1735.2	1735.8	1736.3	1736.9	1737.5	1739.5	1741.4
172.5°	1747.0	1745.3	1743.6	1741.9	1741.3	1741.9	1742.4	1743.0	1743.6	1745.5	1747.5
175°	1754.5	1752.6	1750.6	1748.6	1747.9	1748.5	1749.0	1749.6	1750.2	1752.1	1754.1
177.5°	1756.2	1754.6	1753.0	1751.4	1750.8	1751.0	1751.2	1751.4	1751.7	1753.3	1754.8
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7



TEST NUMBER: P331781-940

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

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°	8.6	8.9	9.2	9.3	9.4	9.5	9.5
90°	29.6	31.0	32.0	32.5	33.1	33.7	34.2
92.5°	31.7	32.4	32.9	33.3	33.5	33.9	34.2
95°	53.7	55.1	55.6	55.4	55.1	54.8	54.6
97.5°	69.6	70.7	71.4	71.8	72.1	72.5	72.8
100°	79.1	81.3	82.8	83.3	83.8	84.4	85.0
102.5°	83.1	86.1	87.9	88.7	89.4	90.2	91.0
105°	86.7	89.8	91.8	93.0	94.2	95.2	96.4
107.5°	98.8	95.7	94.7	95.8	96.9	98.1	99.2
110°	137.4	109.2	95.7	96.8	97.9	99.1	100.2



TEST NUMBER: P331781-940

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

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	251.4	148.6	97.6	98.5	99.4	100.3	101.2
115°	391.0	260.6	185.1	164.9	144.5	124.3	104.0
117.5°	772.0	740.5	691.3	624.6	557.9	491.2	424.6
120°	939.8	943.2	925.8	887.8	849.7	811.6	773.6
122.5°	995.6	997.6	994.9	987.5	980.2	972.8	965.4
125°	1077.5	1079.5	1080.9	1081.8	1082.6	1083.5	1084.3
127.5°	1154.3	1157.2	1158.8	1158.9	1159.0	1159.2	1159.4
130°	1202.7	1205.8	1207.2	1206.9	1206.7	1206.4	1206.0
132.5°	1249.0	1251.7	1252.9	1252.6	1252.3	1252.1	1251.7
135°	1316.0	1318.8	1319.9	1319.4	1318.8	1318.2	1317.7
137.5°	1378.0	1380.7	1381.6	1380.6	1379.7	1378.8	1377.8
140°	1417.9	1420.4	1420.9	1419.6	1418.2	1416.8	1415.3
142.5°	1454.7	1457.1	1457.5	1456.1	1454.6	1453.3	1451.9
145°	1506.2	1508.2	1508.5	1507.1	1505.7	1504.2	1502.9
147.5°	1550.9	1552.4	1552.5	1551.3	1550.2	1548.9	1547.7
150°	1579.0	1580.6	1580.7	1579.4	1578.0	1576.5	1575.1
152.5°	1604.3	1606.0	1605.9	1604.0	1602.2	1600.4	1598.5
155°	1638.5	1640.2	1639.9	1637.7	1635.5	1633.2	1630.9
157.5°	1667.6	1669.6	1669.4	1667.2	1665.0	1662.8	1660.6
160°	1684.2	1685.9	1685.8	1683.8	1681.8	1679.8	1677.8
162.5°	1700.1	1702.0	1701.7	1699.3	1696.9	1694.5	1692.1
165°	1719.3	1721.3	1721.3	1719.3	1717.3	1715.4	1713.3
167.5°	1735.3	1737.2	1737.0	1734.5	1731.9	1729.4	1726.8
170°	1743.4	1745.3	1745.1	1742.6	1740.0	1737.5	1734.9
172.5°	1749.4	1751.4	1751.1	1748.6	1746.1	1743.6	1741.0
175°	1756.0	1758.0	1757.7	1754.8	1751.9	1749.2	1746.3
177.5°	1756.4	1758.0	1757.7	1755.7	1753.7	1751.7	1749.6
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7

(END OF REPORT)