

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: P332407

Luminaire Tested: **S123RDIW-S340D1535U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332407
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S340D1535U835-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1535 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6679.3 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

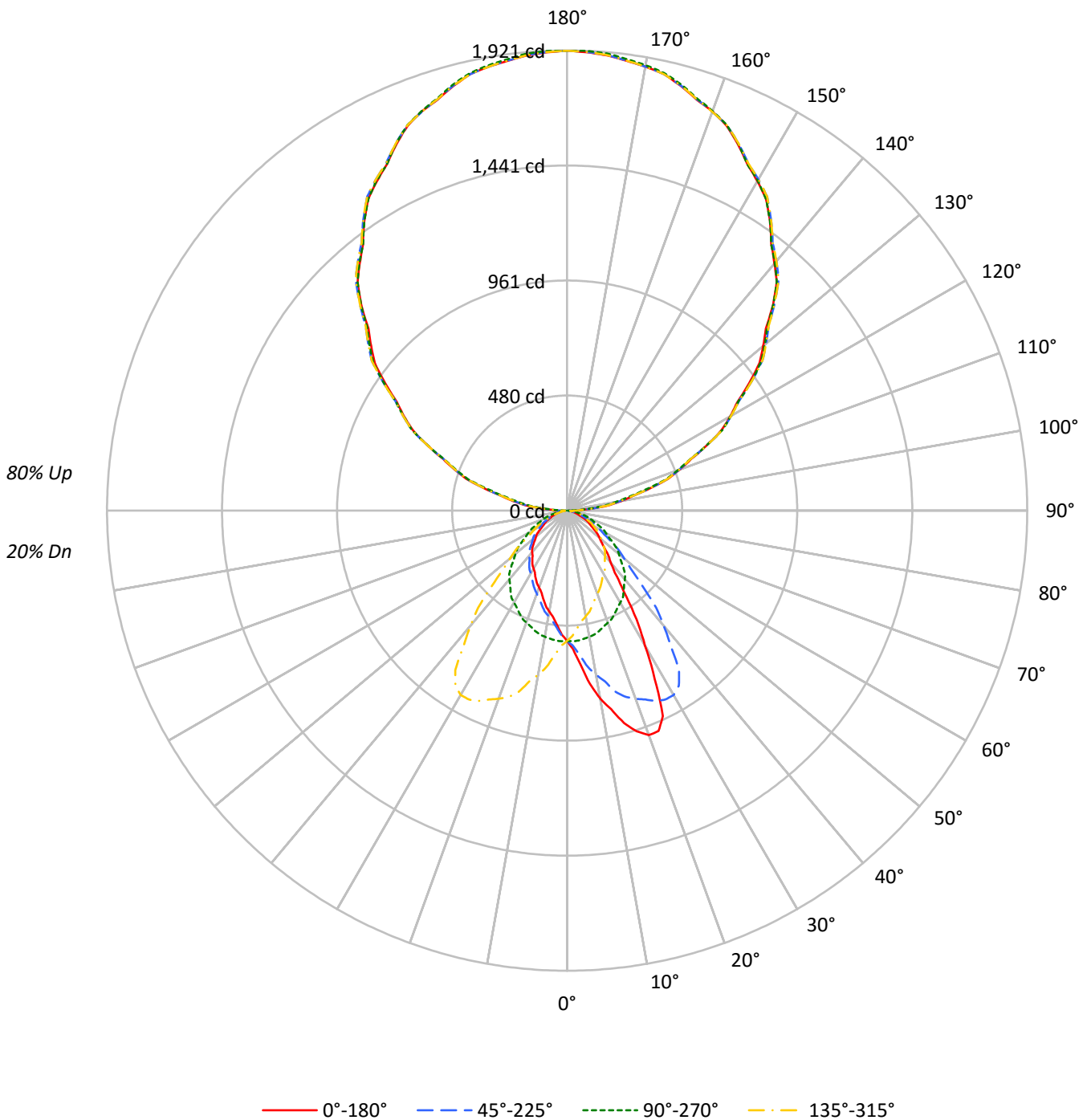
Input Watts (W): 53.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	20				
1	91	87	84	80	81	77	74	72	59	57	55	42	40	39	26	25	25	18				
2	83	76	71	66	73	68	63	59	52	49	46	37	35	33	23	22	21	15				
3	76	67	61	55	67	60	54	50	46	42	39	33	30	28	21	19	18	13				
4	70	60	52	47	61	53	47	42	41	36	33	29	27	24	18	17	16	11				
5	64	53	45	40	56	47	41	36	36	32	28	26	23	21	17	15	14	10				
6	59	47	40	34	52	42	36	31	33	28	25	24	21	18	15	14	12	9				
7	54	43	35	30	48	38	32	27	30	25	22	21	19	16	14	12	11	8				
8	50	39	31	26	44	35	28	24	27	22	19	20	17	14	13	11	10	7				
9	47	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	7				
10	43	32	25	21	38	29	23	19	22	18	15	17	14	12	11	9	8	6				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5858	5858	5858	5858
5°	6983	5883	5181	5883
10°	8719	5850	4680	5850
15°	10234	5789	4268	5789
20°	11423	5700	3918	5700
25°	11240	5606	3702	5606
30°	8079	5520	3480	5520
35°	5394	5406	3336	5406
40°	3974	5271	3188	5271
45°	3334	5033	3043	5033
50°	2942	4721	2840	4721
55°	2580	4363	2562	4363
60°	2297	4021	2347	4021
65°	2017	3655	2183	3655
70°	1583	3330	1995	3330
75°	1393	2907	1822	2907
80°	1215	2467	1791	2467
85°	976	1988	1902	1988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	0.8
10°-20°	167.2	2.5
20°-30°	262.7	3.9
30°-40°	274.1	4.1
40°-50°	234.5	3.5
50°-60°	178.8	2.7
60°-70°	114.6	1.7
70°-80°	55.1	0.8
80°-90°	20.3	0.3
90°-100°	125.1	1.9
100°-110°	374.3	5.6
110°-120°	636.6	9.5
120°-130°	837.4	12.5
130°-140°	941.2	14.1
140°-150°	925.2	13.9
150°-160°	778.9	11.7
160°-170°	518.5	7.8
170°-180°	181.6	2.7
0°-30°	483.4	7.2
0°-40°	757.5	11.3
0°-60°	1170.8	17.5
0°-90°	1360.7	20.4
90°-120°	1136.0	17.0
90°-150°	3839.7	57.5
90°-180°	5319.0	79.6
0°-180°	6679.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	544	544	544	544	544	
5°	646	544	480	544	646	67
15°	918	520	383	520	918	260
25°	946	472	312	472	946	407
35°	410	411	254	411	410	269
45°	219	331	200	331	219	172
55°	138	232	136	232	138	124
65°	79	144	86	144	79	78
75°	34	70	44	70	34	36
85°	8	16	15	16	8	10
90°	45	2	45	2	45	22
95°	118	89	118	89	118	121
105°	359	339	359	339	359	381
115°	642	641	642	641	642	636
125°	927	938	927	938	927	829
135°	1215	1217	1215	1217	1215	934
145°	1476	1476	1476	1476	1476	921
155°	1687	1690	1687	1690	1687	777
165°	1835	1841	1835	1841	1835	518
175°	1908	1915	1908	1915	1908	181
180°	1920	1920	1920	1920	1920	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	579.7	580.4	578.0	577.6	574.8	574.1	574.1	570.1	567.7	564.6	562.7
5°	646.3	650.0	648.1	644.0	637.0	635.3	630.9	623.9	616.0	606.2	601.6
7.5°	729.5	734.6	732.6	726.2	718.8	712.9	700.4	688.8	672.6	658.3	646.1
10°	797.7	792.4	788.2	781.9	775.1	764.2	751.1	733.2	712.5	696.1	678.0
12.5°	848.8	847.9	842.6	836.1	826.6	816.2	800.1	778.3	754.2	730.6	709.8
15°	918.4	919.8	916.3	909.6	896.0	877.6	853.4	844.3	809.8	784.2	758.6
17.5°	966.6	966.3	965.8	956.5	942.7	929.6	907.1	883.2	852.0	815.9	781.4
20°	997.2	994.8	995.3	984.8	974.6	959.4	937.5	902.8	877.2	835.5	799.8
22.5°	996.4	995.9	997.7	994.1	986.7	975.1	957.8	928.5	895.8	853.7	813.6
25°	946.4	944.5	955.4	958.5	970.4	972.5	967.3	951.3	920.3	876.9	827.3
27.5°	792.0	791.0	811.3	836.8	869.0	894.1	918.3	930.0	920.3	889.2	839.5
30°	650.0	671.9	682.2	719.0	760.0	808.9	851.8	892.5	902.6	889.0	848.3
32.5°	539.7	558.8	567.4	598.9	637.2	694.5	758.8	816.5	857.3	867.6	843.1
35°	410.5	410.7	430.3	444.3	479.7	538.6	601.1	678.4	755.3	813.6	819.6
37.5°	327.6	328.7	340.6	354.5	381.1	412.2	467.2	531.5	620.3	709.7	762.2
40°	282.8	284.9	293.8	307.5	326.6	350.2	393.0	453.6	527.7	627.2	708.5
42.5°	254.1	257.5	262.1	272.7	284.5	306.6	341.2	388.0	455.4	549.5	643.3
45°	219.0	220.9	224.4	229.3	240.0	255.3	278.6	310.1	366.0	441.7	535.6
47.5°	193.2	192.2	195.9	199.8	207.0	217.5	233.1	258.7	298.6	359.4	439.0
50°	175.7	175.4	178.0	181.0	187.8	195.5	208.3	227.6	259.3	309.6	382.6
52.5°	159.3	160.1	162.0	165.7	170.6	176.8	188.3	202.3	229.5	272.9	333.7
55°	137.5	138.2	140.7	142.8	146.3	152.6	159.8	171.5	190.1	220.4	270.5
57.5°	119.0	118.7	121.1	121.7	125.6	130.7	136.3	145.4	158.9	181.4	215.1
60°	106.7	106.0	108.1	109.7	111.8	116.0	120.7	129.5	140.3	156.8	185.7
62.5°	95.5	95.2	96.7	98.4	100.1	103.9	107.8	114.6	123.1	137.0	160.0
65°	79.2	79.9	80.6	81.3	82.2	84.6	88.3	93.0	98.8	108.6	125.1
67.5°	62.3	63.0	63.2	64.6	66.6	68.1	70.4	74.5	78.6	86.8	96.2
70°	50.3	50.1	50.3	51.0	53.6	56.1	59.2	62.2	64.8	70.6	78.5
72.5°	43.2	42.8	43.4	43.6	44.8	45.5	47.4	50.3	53.6	57.5	63.2
75°	33.5	33.5	33.5	33.5	34.5	34.9	35.6	36.3	37.5	39.4	43.6
77.5°	24.8	24.8	25.2	25.4	25.6	25.9	26.3	27.0	27.4	28.4	30.2
80°	19.6	19.8	19.6	19.8	19.8	20.3	20.5	21.2	21.4	22.6	23.3
82.5°	14.7	14.6	14.7	15.0	15.0	15.4	15.5	16.0	16.0	16.6	17.3
85°	7.9	7.5	7.9	7.7	8.2	7.7	7.9	8.4	8.4	8.6	9.6
87.5°	10.9	11.2	10.6	10.7	10.6	10.5	10.3	10.0	10.1	9.7	9.0
90°	45.2	44.6	43.9	43.2	42.6	41.6	40.2	38.9	37.5	36.2	31.8
92.5°	60.9	61.3	61.7	62.1	62.5	62.2	61.1	60.0	59.0	57.9	55.4
95°	117.6	117.6	117.6	117.6	117.6	116.9	115.6	114.3	112.9	111.6	108.9
97.5°	181.0	181.1	181.2	181.4	181.5	180.8	179.2	177.7	176.2	174.6	172.7
100°	229.2	228.5	227.9	227.2	226.5	225.7	224.7	223.7	222.7	221.7	220.0
102.5°	278.7	278.8	278.9	279.1	279.2	278.8	277.8	276.8	275.8	274.7	272.5
105°	358.9	358.2	357.6	356.9	356.2	355.9	355.9	355.9	355.9	355.9	352.9
107.5°	442.4	442.8	443.2	443.6	444.0	443.7	442.6	441.6	440.5	439.4	438.2
110°	499.1	499.8	500.5	501.1	501.8	501.5	500.1	498.8	497.5	496.1	495.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	559.4	559.6	559.7	559.9	560.0	559.2	557.6	556.0	554.4	552.8	552.7
115°	642.4	642.7	643.1	643.4	643.7	643.7	643.4	643.1	642.7	642.4	643.1
117.5°	726.5	727.5	728.4	729.3	730.3	730.8	730.9	730.9	731.0	731.1	731.9
120°	785.6	786.3	787.0	787.7	788.3	788.8	789.2	789.5	789.8	790.2	791.8
122.5°	842.3	843.3	844.2	845.2	846.1	847.0	847.9	848.7	849.6	850.5	851.4
125°	927.4	928.7	930.1	931.4	932.7	934.1	935.4	936.8	938.1	939.5	940.1
127.5°	1012.1	1013.7	1015.2	1016.8	1018.3	1020.0	1021.9	1023.8	1025.6	1027.5	1028.3
130°	1067.6	1070.0	1072.3	1074.7	1077.0	1078.9	1080.2	1081.5	1082.9	1084.2	1085.2
132.5°	1125.5	1127.3	1129.2	1131.0	1132.8	1134.5	1136.1	1137.7	1139.3	1140.9	1141.6
135°	1215.4	1216.1	1216.7	1217.4	1218.1	1219.1	1220.4	1221.8	1223.1	1224.5	1224.8
137.5°	1294.7	1296.0	1297.3	1298.5	1299.8	1301.2	1302.6	1304.0	1305.4	1306.8	1305.9
140°	1346.6	1348.9	1351.3	1353.6	1356.0	1357.3	1357.7	1358.0	1358.3	1358.7	1358.3
142.5°	1399.7	1401.5	1403.3	1405.1	1406.9	1408.0	1408.3	1408.7	1409.0	1409.3	1408.7
145°	1476.3	1477.6	1479.0	1480.3	1481.6	1482.5	1482.8	1483.1	1483.5	1483.8	1482.8
147.5°	1544.4	1546.4	1548.5	1550.5	1552.5	1553.5	1553.5	1553.5	1553.5	1553.5	1552.5
150°	1587.9	1589.9	1591.9	1593.9	1595.9	1596.9	1596.9	1596.9	1596.9	1596.9	1596.2
152.5°	1630.1	1631.8	1633.6	1635.3	1637.1	1637.7	1637.1	1636.6	1636.1	1635.5	1635.1
155°	1687.4	1689.7	1692.1	1694.4	1696.8	1697.3	1695.9	1694.6	1693.3	1691.9	1691.6
157.5°	1739.6	1741.4	1743.3	1745.2	1747.1	1747.3	1745.9	1744.5	1743.1	1741.7	1741.4
160°	1773.3	1774.7	1776.0	1777.4	1778.7	1778.5	1776.9	1775.2	1773.5	1771.8	1771.8
162.5°	1798.7	1800.8	1803.0	1805.1	1807.3	1807.5	1805.8	1804.1	1802.5	1800.8	1800.5
165°	1835.2	1837.5	1839.9	1842.2	1844.6	1844.7	1842.7	1840.7	1838.7	1836.7	1836.7
167.5°	1866.2	1868.3	1870.4	1872.5	1874.5	1874.5	1872.5	1870.4	1868.3	1866.2	1866.0
170°	1881.9	1884.3	1886.6	1889.0	1891.3	1891.3	1889.0	1886.6	1884.3	1881.9	1881.9
172.5°	1894.0	1896.3	1898.7	1901.0	1903.4	1903.5	1901.4	1899.3	1897.3	1895.2	1895.2
175°	1907.6	1909.9	1912.2	1914.6	1916.9	1917.1	1915.1	1913.1	1911.1	1909.1	1909.1
177.5°	1914.8	1916.7	1918.5	1920.4	1922.3	1922.4	1920.8	1919.2	1917.6	1916.0	1916.0
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	561.9	561.4	558.8	555.8	551.9	549.3	547.2	546.1	542.7	538.6	535.9
5°	596.7	589.7	582.2	573.1	564.7	556.1	550.8	544.5	536.8	528.2	522.1
7.5°	633.8	620.1	605.4	590.1	575.1	561.6	549.6	539.4	527.2	514.8	506.2
10°	662.4	642.3	621.6	600.4	581.1	562.9	548.9	535.2	520.5	506.3	495.5
12.5°	688.3	661.9	638.0	611.9	587.2	565.5	545.4	529.2	511.5	496.4	484.2
15°	721.1	694.0	665.2	625.5	592.7	565.2	540.7	519.5	498.1	479.5	467.6
17.5°	751.7	711.1	672.2	639.2	596.5	562.2	532.3	507.0	483.4	463.7	449.0
20°	764.4	725.0	682.9	640.7	598.8	560.3	525.6	497.6	473.2	450.8	437.3
22.5°	772.0	727.5	683.0	637.7	593.2	553.2	518.9	488.1	461.6	440.4	423.7
25°	780.9	727.8	678.9	634.2	588.7	545.4	504.6	472.0	443.4	420.8	403.1
27.5°	786.8	724.3	666.5	616.8	570.7	527.6	490.2	455.6	426.5	402.6	383.6
30°	787.9	721.5	657.0	603.2	556.4	516.7	477.1	444.1	413.3	387.9	370.2
32.5°	789.4	714.6	644.1	587.0	539.0	499.8	463.9	432.3	400.8	375.8	357.7
35°	783.3	710.8	624.6	558.9	510.9	472.9	440.6	411.4	380.5	356.2	337.8
37.5°	756.8	695.7	604.4	527.3	477.1	442.0	415.6	390.2	361.8	335.6	318.3
40°	730.2	680.8	588.7	508.1	455.7	419.6	395.8	375.1	347.6	323.1	304.5
42.5°	690.5	660.4	573.8	488.0	431.5	396.7	376.6	357.2	333.1	308.2	290.7
45°	617.6	621.6	543.3	455.9	397.9	363.0	344.1	330.6	309.2	288.7	270.7
47.5°	526.3	563.3	507.5	421.8	362.6	329.8	313.3	301.5	287.0	266.9	250.5
50°	466.7	519.5	478.8	398.9	340.4	307.8	291.5	281.9	269.3	253.5	237.9
52.5°	411.7	468.5	444.1	373.3	316.3	286.5	270.6	262.7	252.7	237.8	223.7
55°	335.7	393.3	387.7	334.8	280.3	253.5	241.4	232.5	225.8	214.6	203.4
57.5°	271.6	326.1	329.0	291.9	248.5	222.0	211.6	204.9	200.5	192.1	181.7
60°	231.1	281.2	291.0	263.0	225.8	202.5	192.2	186.8	183.4	176.6	168.7
62.5°	197.6	240.2	251.3	231.2	204.0	182.1	174.1	169.0	166.6	160.8	153.8
65°	151.2	186.6	197.3	186.2	171.9	154.5	147.9	143.5	141.4	138.2	133.0
67.5°	113.7	139.5	151.3	143.4	138.2	127.2	123.1	120.7	118.8	116.6	112.3
70°	91.3	110.4	122.5	120.5	116.3	110.4	107.4	105.8	103.9	102.0	98.3
72.5°	73.4	86.6	97.9	99.0	95.6	94.4	91.7	91.0	89.9	87.7	85.6
75°	48.7	57.8	65.7	68.7	70.1	71.3	70.1	69.9	69.7	67.8	66.6
77.5°	31.9	36.8	41.8	47.0	49.2	50.7	51.1	52.0	51.3	50.4	49.8
80°	24.5	25.6	29.1	33.5	37.0	38.4	39.4	39.8	39.6	39.4	38.4
82.5°	17.8	18.7	20.4	23.5	26.4	28.7	29.3	29.2	29.7	29.9	29.1
85°	9.6	9.8	10.3	10.7	12.3	14.9	15.6	16.1	16.5	16.5	15.1
87.5°	8.5	7.4	6.9	6.2	6.0	5.6	6.0	6.3	7.1	7.0	7.7
90°	27.5	23.1	18.8	14.9	11.6	8.2	4.9	1.5	4.9	8.2	11.6
92.5°	52.9	50.5	48.0	45.6	43.3	41.0	38.8	36.5	38.8	41.0	43.3
95°	106.2	103.5	100.9	98.4	96.0	93.7	91.3	89.0	91.3	93.7	96.0
97.5°	170.7	168.8	166.8	165.0	163.3	161.5	159.8	158.0	159.8	161.5	163.3
100°	218.3	216.6	215.0	213.1	211.1	209.1	207.1	205.1	207.1	209.1	211.1
102.5°	270.3	268.1	265.9	264.2	263.0	261.8	260.6	259.4	260.6	261.8	263.0
105°	349.8	346.8	343.8	342.0	341.3	340.6	340.0	339.3	340.0	340.6	341.3
107.5°	437.0	435.8	434.6	433.8	433.4	433.0	432.6	432.2	432.6	433.0	433.4
110°	494.8	494.1	493.4	492.8	492.1	491.4	490.8	490.1	490.8	491.4	492.1



TEST NUMBER: P332407

CATALOG NUMBER: S123RDIW-S340D1535U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	552.5	552.4	552.3	552.0	551.6	551.2	550.8	550.4	550.8	551.2	551.6
115°	643.7	644.4	645.1	644.9	643.9	642.9	641.9	640.9	641.9	642.9	643.9
117.5°	732.8	733.7	734.5	734.6	734.0	733.3	732.6	732.0	732.6	733.3	734.0
120°	793.5	795.2	796.9	796.7	794.7	792.7	790.7	788.7	790.7	792.7	794.7
122.5°	852.2	853.1	854.0	853.7	852.2	850.7	849.2	847.8	849.2	850.7	852.2
125°	940.8	941.5	942.1	942.0	941.0	940.0	938.9	937.9	938.9	940.0	941.0
127.5°	1029.0	1029.7	1030.5	1029.8	1027.6	1025.5	1023.3	1021.2	1023.3	1025.5	1027.6
130°	1086.2	1087.2	1088.2	1087.4	1084.7	1082.0	1079.4	1076.7	1079.4	1082.0	1084.7
132.5°	1142.4	1143.1	1143.9	1142.9	1140.2	1137.5	1134.8	1132.2	1134.8	1137.5	1140.2
135°	1225.1	1225.5	1225.8	1225.0	1222.9	1220.9	1218.9	1216.9	1218.9	1220.9	1222.9
137.5°	1305.0	1304.2	1303.3	1302.0	1300.4	1298.7	1297.0	1295.3	1297.0	1298.7	1300.4
140°	1358.0	1357.7	1357.3	1356.3	1354.6	1353.0	1351.3	1349.6	1351.3	1353.0	1354.6
142.5°	1408.1	1407.5	1406.9	1405.8	1404.1	1402.4	1400.7	1399.1	1400.7	1402.4	1404.1
145°	1481.8	1480.8	1479.8	1479.0	1478.3	1477.6	1477.0	1476.3	1477.0	1477.6	1478.3
147.5°	1551.6	1550.7	1549.7	1548.7	1547.5	1546.2	1545.0	1543.8	1545.0	1546.2	1547.5
150°	1595.6	1594.9	1594.2	1593.6	1592.9	1592.2	1591.6	1590.9	1591.6	1592.2	1592.9
152.5°	1634.7	1634.3	1633.9	1633.2	1632.3	1631.4	1630.4	1629.5	1630.4	1631.4	1632.3
155°	1691.2	1690.9	1690.6	1690.4	1690.4	1690.4	1690.4	1690.4	1690.4	1690.4	1690.4
157.5°	1741.1	1740.9	1740.6	1740.7	1741.1	1741.5	1741.9	1742.3	1741.9	1741.5	1741.1
160°	1771.8	1771.8	1771.8	1772.2	1772.8	1773.5	1774.2	1774.9	1774.2	1773.5	1772.8
162.5°	1800.3	1800.0	1799.7	1800.1	1801.0	1801.9	1802.9	1803.8	1802.9	1801.9	1801.0
165°	1836.7	1836.7	1836.7	1837.2	1838.2	1839.2	1840.2	1841.2	1840.2	1839.2	1838.2
167.5°	1865.7	1865.4	1865.2	1865.7	1867.0	1868.4	1869.7	1871.1	1869.7	1868.4	1867.0
170°	1881.9	1881.9	1881.9	1882.6	1883.9	1885.3	1886.6	1887.9	1886.6	1885.3	1883.9
172.5°	1895.2	1895.2	1895.2	1895.9	1897.2	1898.5	1899.9	1901.2	1899.9	1898.5	1897.2
175°	1909.1	1909.1	1909.1	1909.7	1911.1	1912.4	1913.8	1915.1	1913.8	1912.4	1911.1
177.5°	1916.0	1916.0	1916.0	1916.5	1917.6	1918.7	1919.8	1920.8	1919.8	1918.7	1917.6
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	534.9	532.5	530.8	527.1	524.7	522.1	519.5	521.1	520.9	520.8	520.8
5°	517.0	511.6	506.7	500.4	496.5	491.6	487.9	487.4	488.3	485.1	483.2
7.5°	499.2	491.9	484.9	478.0	470.6	464.7	461.1	459.3	457.0	455.0	452.9
10°	486.7	478.1	471.3	462.7	454.8	447.8	443.4	440.3	438.7	437.1	434.0
12.5°	473.8	465.4	456.8	447.0	439.5	431.4	428.1	424.7	421.6	419.7	415.6
15°	455.0	444.1	435.0	424.7	416.3	408.4	403.8	397.0	396.1	393.7	389.5
17.5°	436.1	424.3	411.7	404.1	394.7	386.4	379.3	377.1	370.4	367.9	364.2
20°	421.2	410.3	400.7	390.7	377.0	369.3	363.7	360.7	355.3	352.0	349.7
22.5°	408.4	397.2	386.2	374.5	363.2	354.5	350.4	345.7	342.8	338.2	335.7
25°	390.0	377.9	364.6	352.0	343.9	337.4	330.8	326.6	322.4	320.3	315.7
27.5°	368.7	356.0	343.6	334.0	324.0	317.6	311.7	308.0	302.9	299.4	296.8
30°	356.9	342.0	331.3	322.7	309.9	303.8	299.4	294.7	291.0	287.3	284.7
32.5°	343.3	329.7	319.6	308.9	299.1	292.4	286.7	282.6	279.4	275.9	273.3
35°	322.0	310.6	300.1	289.4	282.1	275.4	268.6	265.1	262.1	258.8	256.5
37.5°	302.7	292.0	282.0	271.9	262.9	257.4	252.0	249.3	245.2	243.0	240.7
40°	290.8	280.3	269.6	259.8	250.5	246.3	241.4	237.4	233.7	232.0	229.5
42.5°	277.7	267.2	258.2	247.7	240.0	234.3	229.8	225.5	222.7	220.3	218.9
45°	258.4	249.1	240.2	229.7	222.5	217.6	212.5	208.5	206.0	204.3	201.8
47.5°	239.6	230.3	221.3	212.2	205.2	199.6	194.4	191.7	188.3	186.3	184.6
50°	226.0	217.6	208.1	199.7	192.7	187.1	182.9	179.4	176.4	173.8	172.6
52.5°	213.5	204.6	196.3	188.5	181.1	174.8	171.0	167.3	165.0	162.1	160.7
55°	192.9	184.3	177.3	169.6	162.4	157.0	152.4	149.1	146.8	143.5	141.7
57.5°	173.6	165.8	157.5	150.8	143.4	138.9	135.0	130.6	127.7	125.2	123.3
60°	160.5	151.7	144.4	138.2	131.6	125.8	122.3	118.8	115.8	113.2	111.6
62.5°	146.9	139.2	132.3	125.5	119.5	114.4	110.4	107.5	104.8	103.2	101.5
65°	126.0	120.0	113.0	107.4	101.8	98.1	94.8	92.3	90.4	89.2	87.8
67.5°	106.8	101.0	94.9	89.4	85.6	82.8	80.7	78.5	77.5	76.0	75.1
70°	94.4	88.3	82.9	78.7	75.0	72.9	71.5	69.9	69.0	67.1	66.2
72.5°	80.8	76.4	72.5	69.1	66.1	64.2	62.4	60.4	58.9	56.8	55.9
75°	63.6	59.6	56.6	54.3	52.4	49.9	47.3	45.2	44.5	43.8	43.6
77.5°	47.1	44.6	42.4	40.4	38.1	36.3	35.7	35.2	35.1	34.7	34.7
80°	37.0	34.7	33.1	30.8	29.4	29.4	29.4	28.9	29.1	29.1	29.1
82.5°	27.5	25.4	24.5	23.7	23.4	23.6	23.6	23.7	23.5	23.9	23.7
85°	14.2	14.4	14.9	14.7	14.9	14.9	15.4	15.1	15.4	14.9	15.4
87.5°	8.2	9.5	10.6	11.6	12.7	13.4	13.8	14.1	14.6	14.8	15.0
90°	14.9	18.8	23.1	27.5	31.8	36.2	37.5	38.9	40.2	41.6	42.6
92.5°	45.6	48.0	50.5	52.9	55.4	57.9	59.0	60.0	61.1	62.2	62.5
95°	98.4	100.9	103.5	106.2	108.9	111.6	112.9	114.3	115.6	116.9	117.6
97.5°	165.0	166.8	168.8	170.7	172.7	174.6	176.2	177.7	179.2	180.8	181.5
100°	213.1	215.0	216.6	218.3	220.0	221.7	222.7	223.7	224.7	225.7	226.5
102.5°	264.2	265.9	268.1	270.3	272.5	274.7	275.8	276.8	277.8	278.8	279.2
105°	342.0	343.8	346.8	349.8	352.9	355.9	355.9	355.9	355.9	355.9	356.2
107.5°	433.8	434.6	435.8	437.0	438.2	439.4	440.5	441.6	442.6	443.7	444.0
110°	492.8	493.4	494.1	494.8	495.4	496.1	497.5	498.8	500.1	501.5	501.8



TEST NUMBER: P332407

CATALOG NUMBER: S123RDIW-S340D1535U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	552.0	552.3	552.4	552.5	552.7	552.8	554.4	556.0	557.6	559.2	560.0
115°	644.9	645.1	644.4	643.7	643.1	642.4	642.7	643.1	643.4	643.7	643.7
117.5°	734.6	734.5	733.7	732.8	731.9	731.1	731.0	730.9	730.9	730.8	730.3
120°	796.7	796.9	795.2	793.5	791.8	790.2	789.8	789.5	789.2	788.8	788.3
122.5°	853.7	854.0	853.1	852.2	851.4	850.5	849.6	848.7	847.9	847.0	846.1
125°	942.0	942.1	941.5	940.8	940.1	939.5	938.1	936.8	935.4	934.1	932.7
127.5°	1029.8	1030.5	1029.7	1029.0	1028.3	1027.5	1025.6	1023.8	1021.9	1020.0	1018.3
130°	1087.4	1088.2	1087.2	1086.2	1085.2	1084.2	1082.9	1081.5	1080.2	1078.9	1077.0
132.5°	1142.9	1143.9	1143.1	1142.4	1141.6	1140.9	1139.3	1137.7	1136.1	1134.5	1132.8
135°	1225.0	1225.8	1225.5	1225.1	1224.8	1224.5	1223.1	1221.8	1220.4	1219.1	1218.1
137.5°	1302.0	1303.3	1304.2	1305.0	1305.9	1306.8	1305.4	1304.0	1302.6	1301.2	1299.8
140°	1356.3	1357.3	1357.7	1358.0	1358.3	1358.7	1358.3	1358.0	1357.7	1357.3	1356.0
142.5°	1405.8	1406.9	1407.5	1408.1	1408.7	1409.3	1409.0	1408.7	1408.3	1408.0	1406.9
145°	1479.0	1479.8	1480.8	1481.8	1482.8	1483.8	1483.5	1483.1	1482.8	1482.5	1481.6
147.5°	1548.7	1549.7	1550.7	1551.6	1552.5	1553.5	1553.5	1553.5	1553.5	1553.5	1552.5
150°	1593.6	1594.2	1594.9	1595.6	1596.2	1596.9	1596.9	1596.9	1596.9	1596.9	1595.9
152.5°	1633.2	1633.9	1634.3	1634.7	1635.1	1635.5	1636.1	1636.6	1637.1	1637.7	1637.1
155°	1690.4	1690.6	1690.9	1691.2	1691.6	1691.9	1693.3	1694.6	1695.9	1697.3	1696.8
157.5°	1740.7	1740.6	1740.9	1741.1	1741.4	1741.7	1743.1	1744.5	1745.9	1747.3	1747.1
160°	1772.2	1771.8	1771.8	1771.8	1771.8	1771.8	1773.5	1775.2	1776.9	1778.5	1778.7
162.5°	1800.1	1799.7	1800.0	1800.3	1800.5	1800.8	1802.5	1804.1	1805.8	1807.5	1807.3
165°	1837.2	1836.7	1836.7	1836.7	1836.7	1836.7	1838.7	1840.7	1842.7	1844.7	1844.6
167.5°	1865.7	1865.2	1865.4	1865.7	1866.0	1866.2	1868.3	1870.4	1872.5	1874.5	1874.5
170°	1882.6	1881.9	1881.9	1881.9	1881.9	1881.9	1884.3	1886.6	1889.0	1891.3	1891.3
172.5°	1895.9	1895.2	1895.2	1895.2	1895.2	1895.2	1897.3	1899.3	1901.4	1903.5	1903.4
175°	1909.7	1909.1	1909.1	1909.1	1909.1	1909.1	1911.1	1913.1	1915.1	1917.1	1916.9
177.5°	1916.5	1916.0	1916.0	1916.0	1916.0	1916.0	1917.6	1919.2	1920.8	1922.4	1922.3
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6



TEST NUMBER: P332407

CATALOG NUMBER: S123RDIW-S340D1535U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	518.5	518.3	518.5	517.8	518.5	518.3	518.5	520.8	520.8	520.9	521.1
5°	482.5	482.3	481.6	479.5	481.6	482.3	482.5	483.2	485.1	488.3	487.4
7.5°	451.0	450.7	448.7	448.7	448.7	450.7	451.0	452.9	455.0	457.0	459.3
10°	432.4	432.6	429.8	428.2	429.8	432.6	432.4	434.0	437.1	438.7	440.3
12.5°	414.3	413.3	411.0	409.2	411.0	413.3	414.3	415.6	419.7	421.6	424.7
15°	390.5	388.1	382.6	383.0	382.6	388.1	390.5	389.5	393.7	396.1	397.0
17.5°	362.4	360.7	360.6	357.3	360.6	360.7	362.4	364.2	367.9	370.4	377.1
20°	346.0	344.8	345.3	342.0	345.3	344.8	346.0	349.7	352.0	355.3	360.7
22.5°	333.1	331.9	330.0	329.0	330.0	331.9	333.1	335.7	338.2	342.8	345.7
25°	314.3	312.4	310.6	311.7	310.6	312.4	314.3	315.7	320.3	322.4	326.6
27.5°	295.5	294.1	292.2	292.0	292.2	294.1	295.5	296.8	299.4	302.9	308.0
30°	283.5	282.1	281.2	280.0	281.2	282.1	283.5	284.7	287.3	291.0	294.7
32.5°	271.4	271.1	269.5	269.2	269.5	271.1	271.4	273.3	275.9	279.4	282.6
35°	255.6	254.2	253.7	253.9	253.7	254.2	255.6	256.5	258.8	262.1	265.1
37.5°	240.5	238.7	237.8	237.0	237.8	238.7	240.5	240.7	243.0	245.2	249.3
40°	229.7	227.9	227.4	226.9	227.4	227.9	229.7	229.5	232.0	233.7	237.4
42.5°	217.6	216.9	216.6	215.7	216.6	216.9	217.6	218.9	220.3	222.7	225.5
45°	201.1	200.8	199.4	199.9	199.4	200.8	201.1	201.8	204.3	206.0	208.5
47.5°	183.6	182.6	181.6	182.3	181.6	182.6	183.6	184.6	186.3	188.3	191.7
50°	171.7	171.2	169.1	169.6	169.1	171.2	171.7	172.6	173.8	176.4	179.4
52.5°	159.8	158.0	157.2	156.9	157.2	158.0	159.8	160.7	162.1	165.0	167.3
55°	140.0	137.9	137.0	136.5	137.0	137.9	140.0	141.7	143.5	146.8	149.1
57.5°	120.6	120.1	119.3	119.8	119.3	120.1	120.6	123.3	125.2	127.7	130.6
60°	109.3	109.3	109.3	109.0	109.3	109.3	109.3	111.6	113.2	115.8	118.8
62.5°	100.5	99.9	99.8	100.1	99.8	99.9	100.5	101.5	103.2	104.8	107.5
65°	87.1	86.9	86.0	85.7	86.0	86.9	87.1	87.8	89.2	90.4	92.3
67.5°	74.5	73.7	73.4	73.1	73.4	73.7	74.5	75.1	76.0	77.5	78.5
70°	65.0	64.5	63.1	63.4	63.1	64.5	65.0	66.2	67.1	69.0	69.9
72.5°	54.8	54.3	54.0	53.7	54.0	54.3	54.8	55.9	56.8	58.9	60.4
75°	43.3	43.1	42.9	43.8	42.9	43.1	43.3	43.6	43.8	44.5	45.2
77.5°	34.7	34.7	34.9	34.5	34.9	34.7	34.7	34.7	34.7	35.1	35.2
80°	29.1	29.1	28.9	28.9	28.9	29.1	29.1	29.1	29.1	29.1	28.9
82.5°	23.3	23.5	23.7	23.3	23.7	23.5	23.3	23.7	23.9	23.5	23.7
85°	15.4	15.1	15.6	15.4	15.6	15.1	15.4	15.4	14.9	15.4	15.1
87.5°	15.5	15.3	15.4	15.8	15.4	15.3	15.5	15.0	14.8	14.6	14.1
90°	43.2	43.9	44.6	45.2	44.6	43.9	43.2	42.6	41.6	40.2	38.9
92.5°	62.1	61.7	61.3	60.9	61.3	61.7	62.1	62.5	62.2	61.1	60.0
95°	117.6	117.6	117.6	117.6	117.6	117.6	117.6	117.6	116.9	115.6	114.3
97.5°	181.4	181.2	181.1	181.0	181.1	181.2	181.4	181.5	180.8	179.2	177.7
100°	227.2	227.9	228.5	229.2	228.5	227.9	227.2	226.5	225.7	224.7	223.7
102.5°	279.1	278.9	278.8	278.7	278.8	278.9	279.1	279.2	278.8	277.8	276.8
105°	356.9	357.6	358.2	358.9	358.2	357.6	356.9	356.2	355.9	355.9	355.9
107.5°	443.6	443.2	442.8	442.4	442.8	443.2	443.6	444.0	443.7	442.6	441.6
110°	501.1	500.5	499.8	499.1	499.8	500.5	501.1	501.8	501.5	500.1	498.8



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	559.9	559.7	559.6	559.4	559.6	559.7	559.9	560.0	559.2	557.6	556.0
115°	643.4	643.1	642.7	642.4	642.7	643.1	643.4	643.7	643.7	643.4	643.1
117.5°	729.3	728.4	727.5	726.5	727.5	728.4	729.3	730.3	730.8	730.9	730.9
120°	787.7	787.0	786.3	785.6	786.3	787.0	787.7	788.3	788.8	789.2	789.5
122.5°	845.2	844.2	843.3	842.3	843.3	844.2	845.2	846.1	847.0	847.9	848.7
125°	931.4	930.1	928.7	927.4	928.7	930.1	931.4	932.7	934.1	935.4	936.8
127.5°	1016.8	1015.2	1013.7	1012.1	1013.7	1015.2	1016.8	1018.3	1020.0	1021.9	1023.8
130°	1074.7	1072.3	1070.0	1067.6	1070.0	1072.3	1074.7	1077.0	1078.9	1080.2	1081.5
132.5°	1131.0	1129.2	1127.3	1125.5	1127.3	1129.2	1131.0	1132.8	1134.5	1136.1	1137.7
135°	1217.4	1216.7	1216.1	1215.4	1216.1	1216.7	1217.4	1218.1	1219.1	1220.4	1221.8
137.5°	1298.5	1297.3	1296.0	1294.7	1296.0	1297.3	1298.5	1299.8	1301.2	1302.6	1304.0
140°	1353.6	1351.3	1348.9	1346.6	1348.9	1351.3	1353.6	1356.0	1357.3	1357.7	1358.0
142.5°	1405.1	1403.3	1401.5	1399.7	1401.5	1403.3	1405.1	1406.9	1408.0	1408.3	1408.7
145°	1480.3	1479.0	1477.6	1476.3	1477.6	1479.0	1480.3	1481.6	1482.5	1482.8	1483.1
147.5°	1550.5	1548.5	1546.4	1544.4	1546.4	1548.5	1550.5	1552.5	1553.5	1553.5	1553.5
150°	1593.9	1591.9	1589.9	1587.9	1589.9	1591.9	1593.9	1595.9	1596.9	1596.9	1596.9
152.5°	1635.3	1633.6	1631.8	1630.1	1631.8	1633.6	1635.3	1637.1	1637.7	1637.1	1636.6
155°	1694.4	1692.1	1689.7	1687.4	1689.7	1692.1	1694.4	1696.8	1697.3	1695.9	1694.6
157.5°	1745.2	1743.3	1741.4	1739.6	1741.4	1743.3	1745.2	1747.1	1747.3	1745.9	1744.5
160°	1777.4	1776.0	1774.7	1773.3	1774.7	1776.0	1777.4	1778.7	1778.5	1776.9	1775.2
162.5°	1805.1	1803.0	1800.8	1798.7	1800.8	1803.0	1805.1	1807.3	1807.5	1805.8	1804.1
165°	1842.2	1839.9	1837.5	1835.2	1837.5	1839.9	1842.2	1844.6	1844.7	1842.7	1840.7
167.5°	1872.5	1870.4	1868.3	1866.2	1868.3	1870.4	1872.5	1874.5	1874.5	1872.5	1870.4
170°	1889.0	1886.6	1884.3	1881.9	1884.3	1886.6	1889.0	1891.3	1891.3	1889.0	1886.6
172.5°	1901.0	1898.7	1896.3	1894.0	1896.3	1898.7	1901.0	1903.4	1903.5	1901.4	1899.3
175°	1914.6	1912.2	1909.9	1907.6	1909.9	1912.2	1914.6	1916.9	1917.1	1915.1	1913.1
177.5°	1920.4	1918.5	1916.7	1914.8	1916.7	1918.5	1920.4	1922.3	1922.4	1920.8	1919.2
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	519.5	522.1	524.7	527.1	530.8	532.5	534.9	535.9	538.6	542.7	546.1
5°	487.9	491.6	496.5	500.4	506.7	511.6	517.0	522.1	528.2	536.8	544.5
7.5°	461.1	464.7	470.6	478.0	484.9	491.9	499.2	506.2	514.8	527.2	539.4
10°	443.4	447.8	454.8	462.7	471.3	478.1	486.7	495.5	506.3	520.5	535.2
12.5°	428.1	431.4	439.5	447.0	456.8	465.4	473.8	484.2	496.4	511.5	529.2
15°	403.8	408.4	416.3	424.7	435.0	444.1	455.0	467.6	479.5	498.1	519.5
17.5°	379.3	386.4	394.7	404.1	411.7	424.3	436.1	449.0	463.7	483.4	507.0
20°	363.7	369.3	377.0	390.7	400.7	410.3	421.2	437.3	450.8	473.2	497.6
22.5°	350.4	354.5	363.2	374.5	386.2	397.2	408.4	423.7	440.4	461.6	488.1
25°	330.8	337.4	343.9	352.0	364.6	377.9	390.0	403.1	420.8	443.4	472.0
27.5°	311.7	317.6	324.0	334.0	343.6	356.0	368.7	383.6	402.6	426.5	455.6
30°	299.4	303.8	309.9	322.7	331.3	342.0	356.9	370.2	387.9	413.3	444.1
32.5°	286.7	292.4	299.1	308.9	319.6	329.7	343.3	357.7	375.8	400.8	432.3
35°	268.6	275.4	282.1	289.4	300.1	310.6	322.0	337.8	356.2	380.5	411.4
37.5°	252.0	257.4	262.9	271.9	282.0	292.0	302.7	318.3	335.6	361.8	390.2
40°	241.4	246.3	250.5	259.8	269.6	280.3	290.8	304.5	323.1	347.6	375.1
42.5°	229.8	234.3	240.0	247.7	258.2	267.2	277.7	290.7	308.2	333.1	357.2
45°	212.5	217.6	222.5	229.7	240.2	249.1	258.4	270.7	288.7	309.2	330.6
47.5°	194.4	199.6	205.2	212.2	221.3	230.3	239.6	250.5	266.9	287.0	301.5
50°	182.9	187.1	192.7	199.7	208.1	217.6	226.0	237.9	253.5	269.3	281.9
52.5°	171.0	174.8	181.1	188.5	196.3	204.6	213.5	223.7	237.8	252.7	262.7
55°	152.4	157.0	162.4	169.6	177.3	184.3	192.9	203.4	214.6	225.8	232.5
57.5°	135.0	138.9	143.4	150.8	157.5	165.8	173.6	181.7	192.1	200.5	204.9
60°	122.3	125.8	131.6	138.2	144.4	151.7	160.5	168.7	176.6	183.4	186.8
62.5°	110.4	114.4	119.5	125.5	132.3	139.2	146.9	153.8	160.8	166.6	169.0
65°	94.8	98.1	101.8	107.4	113.0	120.0	126.0	133.0	138.2	141.4	143.5
67.5°	80.7	82.8	85.6	89.4	94.9	101.0	106.8	112.3	116.6	118.8	120.7
70°	71.5	72.9	75.0	78.7	82.9	88.3	94.4	98.3	102.0	103.9	105.8
72.5°	62.4	64.2	66.1	69.1	72.5	76.4	80.8	85.6	87.7	89.9	91.0
75°	47.3	49.9	52.4	54.3	56.6	59.6	63.6	66.6	67.8	69.7	69.9
77.5°	35.7	36.3	38.1	40.4	42.4	44.6	47.1	49.8	50.4	51.3	52.0
80°	29.4	29.4	29.4	30.8	33.1	34.7	37.0	38.4	39.4	39.6	39.8
82.5°	23.6	23.6	23.4	23.7	24.5	25.4	27.5	29.1	29.9	29.7	29.2
85°	15.4	14.9	14.9	14.7	14.9	14.4	14.2	15.1	16.5	16.5	16.1
87.5°	13.8	13.4	12.7	11.6	10.6	9.5	8.2	7.7	7.0	7.1	6.3
90°	37.5	36.2	31.8	27.5	23.1	18.8	14.9	11.6	8.2	4.9	1.5
92.5°	59.0	57.9	55.4	52.9	50.5	48.0	45.6	43.3	41.0	38.8	36.5
95°	112.9	111.6	108.9	106.2	103.5	100.9	98.4	96.0	93.7	91.3	89.0
97.5°	176.2	174.6	172.7	170.7	168.8	166.8	165.0	163.3	161.5	159.8	158.0
100°	222.7	221.7	220.0	218.3	216.6	215.0	213.1	211.1	209.1	207.1	205.1
102.5°	275.8	274.7	272.5	270.3	268.1	265.9	264.2	263.0	261.8	260.6	259.4
105°	355.9	355.9	352.9	349.8	346.8	343.8	342.0	341.3	340.6	340.0	339.3
107.5°	440.5	439.4	438.2	437.0	435.8	434.6	433.8	433.4	433.0	432.6	432.2
110°	497.5	496.1	495.4	494.8	494.1	493.4	492.8	492.1	491.4	490.8	490.1



TEST NUMBER: P332407

CATALOG NUMBER: S123RDIW-S340D1535U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	554.4	552.8	552.7	552.5	552.4	552.3	552.0	551.6	551.2	550.8	550.4
115°	642.7	642.4	643.1	643.7	644.4	645.1	644.9	643.9	642.9	641.9	640.9
117.5°	731.0	731.1	731.9	732.8	733.7	734.5	734.6	734.0	733.3	732.6	732.0
120°	789.8	790.2	791.8	793.5	795.2	796.9	796.7	794.7	792.7	790.7	788.7
122.5°	849.6	850.5	851.4	852.2	853.1	854.0	853.7	852.2	850.7	849.2	847.8
125°	938.1	939.5	940.1	940.8	941.5	942.1	942.0	941.0	940.0	938.9	937.9
127.5°	1025.6	1027.5	1028.3	1029.0	1029.7	1030.5	1029.8	1027.6	1025.5	1023.3	1021.2
130°	1082.9	1084.2	1085.2	1086.2	1087.2	1088.2	1087.4	1084.7	1082.0	1079.4	1076.7
132.5°	1139.3	1140.9	1141.6	1142.4	1143.1	1143.9	1142.9	1140.2	1137.5	1134.8	1132.2
135°	1223.1	1224.5	1224.8	1225.1	1225.5	1225.8	1225.0	1222.9	1220.9	1218.9	1216.9
137.5°	1305.4	1306.8	1305.9	1305.0	1304.2	1303.3	1302.0	1300.4	1298.7	1297.0	1295.3
140°	1358.3	1358.7	1358.3	1358.0	1357.7	1357.3	1356.3	1354.6	1353.0	1351.3	1349.6
142.5°	1409.0	1409.3	1408.7	1408.1	1407.5	1406.9	1405.8	1404.1	1402.4	1400.7	1399.1
145°	1483.5	1483.8	1482.8	1481.8	1480.8	1479.8	1479.0	1478.3	1477.6	1477.0	1476.3
147.5°	1553.5	1553.5	1552.5	1551.6	1550.7	1549.7	1548.7	1547.5	1546.2	1545.0	1543.8
150°	1596.9	1596.9	1596.2	1595.6	1594.9	1594.2	1593.6	1592.9	1592.2	1591.6	1590.9
152.5°	1636.1	1635.5	1635.1	1634.7	1634.3	1633.9	1633.2	1632.3	1631.4	1630.4	1629.5
155°	1693.3	1691.9	1691.6	1691.2	1690.9	1690.6	1690.4	1690.4	1690.4	1690.4	1690.4
157.5°	1743.1	1741.7	1741.4	1741.1	1740.9	1740.6	1740.7	1741.1	1741.5	1741.9	1742.3
160°	1773.5	1771.8	1771.8	1771.8	1771.8	1771.8	1772.2	1772.8	1773.5	1774.2	1774.9
162.5°	1802.5	1800.8	1800.5	1800.3	1800.0	1799.7	1800.1	1801.0	1801.9	1802.9	1803.8
165°	1838.7	1836.7	1836.7	1836.7	1836.7	1836.7	1837.2	1838.2	1839.2	1840.2	1841.2
167.5°	1868.3	1866.2	1866.0	1865.7	1865.4	1865.2	1865.7	1867.0	1868.4	1869.7	1871.1
170°	1884.3	1881.9	1881.9	1881.9	1881.9	1881.9	1882.6	1883.9	1885.3	1886.6	1887.9
172.5°	1897.3	1895.2	1895.2	1895.2	1895.2	1895.2	1895.9	1897.2	1898.5	1899.9	1901.2
175°	1911.1	1909.1	1909.1	1909.1	1909.1	1909.1	1909.7	1911.1	1912.4	1913.8	1915.1
177.5°	1917.6	1916.0	1916.0	1916.0	1916.0	1916.0	1916.5	1917.6	1918.7	1919.8	1920.8
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6



TEST NUMBER: P332407

CATALOG NUMBER: S123RDIW-S340D1535U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	547.2	549.3	551.9	555.8	558.8	561.4	561.9	562.7	564.6	567.7	570.1
5°	550.8	556.1	564.7	573.1	582.2	589.7	596.7	601.6	606.2	616.0	623.9
7.5°	549.6	561.6	575.1	590.1	605.4	620.1	633.8	646.1	658.3	672.6	688.8
10°	548.9	562.9	581.1	600.4	621.6	642.3	662.4	678.0	696.1	712.5	733.2
12.5°	545.4	565.5	587.2	611.9	638.0	661.9	688.3	709.8	730.6	754.2	778.3
15°	540.7	565.2	592.7	625.5	665.2	694.0	721.1	758.6	784.2	809.8	844.3
17.5°	532.3	562.2	596.5	639.2	672.2	711.1	751.7	781.4	815.9	852.0	883.2
20°	525.6	560.3	598.8	640.7	682.9	725.0	764.4	799.8	835.5	877.2	902.8
22.5°	518.9	553.2	593.2	637.7	683.0	727.5	772.0	813.6	853.7	895.8	928.5
25°	504.6	545.4	588.7	634.2	678.9	727.8	780.9	827.3	876.9	920.3	951.3
27.5°	490.2	527.6	570.7	616.8	666.5	724.3	786.8	839.5	889.2	920.3	930.0
30°	477.1	516.7	556.4	603.2	657.0	721.5	787.9	848.3	889.0	902.6	892.5
32.5°	463.9	499.8	539.0	587.0	644.1	714.6	789.4	843.1	867.6	857.3	816.5
35°	440.6	472.9	510.9	558.9	624.6	710.8	783.3	819.6	813.6	755.3	678.4
37.5°	415.6	442.0	477.1	527.3	604.4	695.7	756.8	762.2	709.7	620.3	531.5
40°	395.8	419.6	455.7	508.1	588.7	680.8	730.2	708.5	627.2	527.7	453.6
42.5°	376.6	396.7	431.5	488.0	573.8	660.4	690.5	643.3	549.5	455.4	388.0
45°	344.1	363.0	397.9	455.9	543.3	621.6	617.6	535.6	441.7	366.0	310.1
47.5°	313.3	329.8	362.6	421.8	507.5	563.3	526.3	439.0	359.4	298.6	258.7
50°	291.5	307.8	340.4	398.9	478.8	519.5	466.7	382.6	309.6	259.3	227.6
52.5°	270.6	286.5	316.3	373.3	444.1	468.5	411.7	333.7	272.9	229.5	202.3
55°	241.4	253.5	280.3	334.8	387.7	393.3	335.7	270.5	220.4	190.1	171.5
57.5°	211.6	222.0	248.5	291.9	329.0	326.1	271.6	215.1	181.4	158.9	145.4
60°	192.2	202.5	225.8	263.0	291.0	281.2	231.1	185.7	156.8	140.3	129.5
62.5°	174.1	182.1	204.0	231.2	251.3	240.2	197.6	160.0	137.0	123.1	114.6
65°	147.9	154.5	171.9	186.2	197.3	186.6	151.2	125.1	108.6	98.8	93.0
67.5°	123.1	127.2	138.2	143.4	151.3	139.5	113.7	96.2	86.8	78.6	74.5
70°	107.4	110.4	116.3	120.5	122.5	110.4	91.3	78.5	70.6	64.8	62.2
72.5°	91.7	94.4	95.6	99.0	97.9	86.6	73.4	63.2	57.5	53.6	50.3
75°	70.1	71.3	70.1	68.7	65.7	57.8	48.7	43.6	39.4	37.5	36.3
77.5°	51.1	50.7	49.2	47.0	41.8	36.8	31.9	30.2	28.4	27.4	27.0
80°	39.4	38.4	37.0	33.5	29.1	25.6	24.5	23.3	22.6	21.4	21.2
82.5°	29.3	28.7	26.4	23.5	20.4	18.7	17.8	17.3	16.6	16.0	16.0
85°	15.6	14.9	12.3	10.7	10.3	9.8	9.6	9.6	8.6	8.4	8.4
87.5°	6.0	5.6	6.0	6.2	6.9	7.4	8.5	9.0	9.7	10.1	10.0
90°	4.9	8.2	11.6	14.9	18.8	23.1	27.5	31.8	36.2	37.5	38.9
92.5°	38.8	41.0	43.3	45.6	48.0	50.5	52.9	55.4	57.9	59.0	60.0
95°	91.3	93.7	96.0	98.4	100.9	103.5	106.2	108.9	111.6	112.9	114.3
97.5°	159.8	161.5	163.3	165.0	166.8	168.8	170.7	172.7	174.6	176.2	177.7
100°	207.1	209.1	211.1	213.1	215.0	216.6	218.3	220.0	221.7	222.7	223.7
102.5°	260.6	261.8	263.0	264.2	265.9	268.1	270.3	272.5	274.7	275.8	276.8
105°	340.0	340.6	341.3	342.0	343.8	346.8	349.8	352.9	355.9	355.9	355.9
107.5°	432.6	433.0	433.4	433.8	434.6	435.8	437.0	438.2	439.4	440.5	441.6
110°	490.8	491.4	492.1	492.8	493.4	494.1	494.8	495.4	496.1	497.5	498.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	550.8	551.2	551.6	552.0	552.3	552.4	552.5	552.7	552.8	554.4	556.0
115°	641.9	642.9	643.9	644.9	645.1	644.4	643.7	643.1	642.4	642.7	643.1
117.5°	732.6	733.3	734.0	734.6	734.5	733.7	732.8	731.9	731.1	731.0	730.9
120°	790.7	792.7	794.7	796.7	796.9	795.2	793.5	791.8	790.2	789.8	789.5
122.5°	849.2	850.7	852.2	853.7	854.0	853.1	852.2	851.4	850.5	849.6	848.7
125°	938.9	940.0	941.0	942.0	942.1	941.5	940.8	940.1	939.5	938.1	936.8
127.5°	1023.3	1025.5	1027.6	1029.8	1030.5	1029.7	1029.0	1028.3	1027.5	1025.6	1023.8
130°	1079.4	1082.0	1084.7	1087.4	1088.2	1087.2	1086.2	1085.2	1084.2	1082.9	1081.5
132.5°	1134.8	1137.5	1140.2	1142.9	1143.9	1143.1	1142.4	1141.6	1140.9	1139.3	1137.7
135°	1218.9	1220.9	1222.9	1225.0	1225.8	1225.5	1225.1	1224.8	1224.5	1223.1	1221.8
137.5°	1297.0	1298.7	1300.4	1302.0	1303.3	1304.2	1305.0	1305.9	1306.8	1305.4	1304.0
140°	1351.3	1353.0	1354.6	1356.3	1357.3	1357.7	1358.0	1358.3	1358.7	1358.3	1358.0
142.5°	1400.7	1402.4	1404.1	1405.8	1406.9	1407.5	1408.1	1408.7	1409.3	1409.0	1408.7
145°	1477.0	1477.6	1478.3	1479.0	1479.8	1480.8	1481.8	1482.8	1483.8	1483.5	1483.1
147.5°	1545.0	1546.2	1547.5	1548.7	1549.7	1550.7	1551.6	1552.5	1553.5	1553.5	1553.5
150°	1591.6	1592.2	1592.9	1593.6	1594.2	1594.9	1595.6	1596.2	1596.9	1596.9	1596.9
152.5°	1630.4	1631.4	1632.3	1633.2	1633.9	1634.3	1634.7	1635.1	1635.5	1636.1	1636.6
155°	1690.4	1690.4	1690.4	1690.4	1690.6	1690.9	1691.2	1691.6	1691.9	1693.3	1694.6
157.5°	1741.9	1741.5	1741.1	1740.7	1740.6	1740.9	1741.1	1741.4	1741.7	1743.1	1744.5
160°	1774.2	1773.5	1772.8	1772.2	1771.8	1771.8	1771.8	1771.8	1771.8	1773.5	1775.2
162.5°	1802.9	1801.9	1801.0	1800.1	1799.7	1800.0	1800.3	1800.5	1800.8	1802.5	1804.1
165°	1840.2	1839.2	1838.2	1837.2	1836.7	1836.7	1836.7	1836.7	1836.7	1838.7	1840.7
167.5°	1869.7	1868.4	1867.0	1865.7	1865.2	1865.4	1865.7	1866.0	1866.2	1868.3	1870.4
170°	1886.6	1885.3	1883.9	1882.6	1881.9	1881.9	1881.9	1881.9	1881.9	1884.3	1886.6
172.5°	1899.9	1898.5	1897.2	1895.9	1895.2	1895.2	1895.2	1895.2	1895.2	1897.3	1899.3
175°	1913.8	1912.4	1911.1	1909.7	1909.1	1909.1	1909.1	1909.1	1909.1	1911.1	1913.1
177.5°	1919.8	1918.7	1917.6	1916.5	1916.0	1916.0	1916.0	1916.0	1916.0	1917.6	1919.2
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	574.1	574.1	574.8	577.6	578.0	580.4	579.7
5°	630.9	635.3	637.0	644.0	648.1	650.0	646.3
7.5°	700.4	712.9	718.8	726.2	732.6	734.6	729.5
10°	751.1	764.2	775.1	781.9	788.2	792.4	797.7
12.5°	800.1	816.2	826.6	836.1	842.6	847.9	848.8
15°	853.4	877.6	896.0	909.6	916.3	919.8	918.4
17.5°	907.1	929.6	942.7	956.5	965.8	966.3	966.6
20°	937.5	959.4	974.6	984.8	995.3	994.8	997.2
22.5°	957.8	975.1	986.7	994.1	997.7	995.9	996.4
25°	967.3	972.5	970.4	958.5	955.4	944.5	946.4
27.5°	918.3	894.1	869.0	836.8	811.3	791.0	792.0
30°	851.8	808.9	760.0	719.0	682.2	671.9	650.0
32.5°	758.8	694.5	637.2	598.9	567.4	558.8	539.7
35°	601.1	538.6	479.7	444.3	430.3	410.7	410.5
37.5°	467.2	412.2	381.1	354.5	340.6	328.7	327.6
40°	393.0	350.2	326.6	307.5	293.8	284.9	282.8
42.5°	341.2	306.6	284.5	272.7	262.1	257.5	254.1
45°	278.6	255.3	240.0	229.3	224.4	220.9	219.0
47.5°	233.1	217.5	207.0	199.8	195.9	192.2	193.2
50°	208.3	195.5	187.8	181.0	178.0	175.4	175.7
52.5°	188.3	176.8	170.6	165.7	162.0	160.1	159.3
55°	159.8	152.6	146.3	142.8	140.7	138.2	137.5
57.5°	136.3	130.7	125.6	121.7	121.1	118.7	119.0
60°	120.7	116.0	111.8	109.7	108.1	106.0	106.7
62.5°	107.8	103.9	100.1	98.4	96.7	95.2	95.5
65°	88.3	84.6	82.2	81.3	80.6	79.9	79.2
67.5°	70.4	68.1	66.6	64.6	63.2	63.0	62.3
70°	59.2	56.1	53.6	51.0	50.3	50.1	50.3
72.5°	47.4	45.5	44.8	43.6	43.4	42.8	43.2
75°	35.6	34.9	34.5	33.5	33.5	33.5	33.5
77.5°	26.3	25.9	25.6	25.4	25.2	24.8	24.8
80°	20.5	20.3	19.8	19.8	19.6	19.8	19.6
82.5°	15.5	15.4	15.0	15.0	14.7	14.6	14.7
85°	7.9	7.7	8.2	7.7	7.9	7.5	7.9
87.5°	10.3	10.5	10.6	10.7	10.6	11.2	10.9
90°	40.2	41.6	42.6	43.2	43.9	44.6	45.2
92.5°	61.1	62.2	62.5	62.1	61.7	61.3	60.9
95°	115.6	116.9	117.6	117.6	117.6	117.6	117.6
97.5°	179.2	180.8	181.5	181.4	181.2	181.1	181.0
100°	224.7	225.7	226.5	227.2	227.9	228.5	229.2
102.5°	277.8	278.8	279.2	279.1	278.9	278.8	278.7
105°	355.9	355.9	356.2	356.9	357.6	358.2	358.9
107.5°	442.6	443.7	444.0	443.6	443.2	442.8	442.4
110°	500.1	501.5	501.8	501.1	500.5	499.8	499.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	557.6	559.2	560.0	559.9	559.7	559.6	559.4
115°	643.4	643.7	643.7	643.4	643.1	642.7	642.4
117.5°	730.9	730.8	730.3	729.3	728.4	727.5	726.5
120°	789.2	788.8	788.3	787.7	787.0	786.3	785.6
122.5°	847.9	847.0	846.1	845.2	844.2	843.3	842.3
125°	935.4	934.1	932.7	931.4	930.1	928.7	927.4
127.5°	1021.9	1020.0	1018.3	1016.8	1015.2	1013.7	1012.1
130°	1080.2	1078.9	1077.0	1074.7	1072.3	1070.0	1067.6
132.5°	1136.1	1134.5	1132.8	1131.0	1129.2	1127.3	1125.5
135°	1220.4	1219.1	1218.1	1217.4	1216.7	1216.1	1215.4
137.5°	1302.6	1301.2	1299.8	1298.5	1297.3	1296.0	1294.7
140°	1357.7	1357.3	1356.0	1353.6	1351.3	1348.9	1346.6
142.5°	1408.3	1408.0	1406.9	1405.1	1403.3	1401.5	1399.7
145°	1482.8	1482.5	1481.6	1480.3	1479.0	1477.6	1476.3
147.5°	1553.5	1553.5	1552.5	1550.5	1548.5	1546.4	1544.4
150°	1596.9	1596.9	1595.9	1593.9	1591.9	1589.9	1587.9
152.5°	1637.1	1637.7	1637.1	1635.3	1633.6	1631.8	1630.1
155°	1695.9	1697.3	1696.8	1694.4	1692.1	1689.7	1687.4
157.5°	1745.9	1747.3	1747.1	1745.2	1743.3	1741.4	1739.6
160°	1776.9	1778.5	1778.7	1777.4	1776.0	1774.7	1773.3
162.5°	1805.8	1807.5	1807.3	1805.1	1803.0	1800.8	1798.7
165°	1842.7	1844.7	1844.6	1842.2	1839.9	1837.5	1835.2
167.5°	1872.5	1874.5	1874.5	1872.5	1870.4	1868.3	1866.2
170°	1889.0	1891.3	1891.3	1889.0	1886.6	1884.3	1881.9
172.5°	1901.4	1903.5	1903.4	1901.0	1898.7	1896.3	1894.0
175°	1915.1	1917.1	1916.9	1914.6	1912.2	1909.9	1907.6
177.5°	1920.8	1922.4	1922.3	1920.4	1918.5	1916.7	1914.8
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6

(END OF REPORT)