

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: P332145

Luminaire Tested: **S123DIW-S560D1535U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332145
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: S123DIW-S560D1535U835-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1535 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7710.2 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

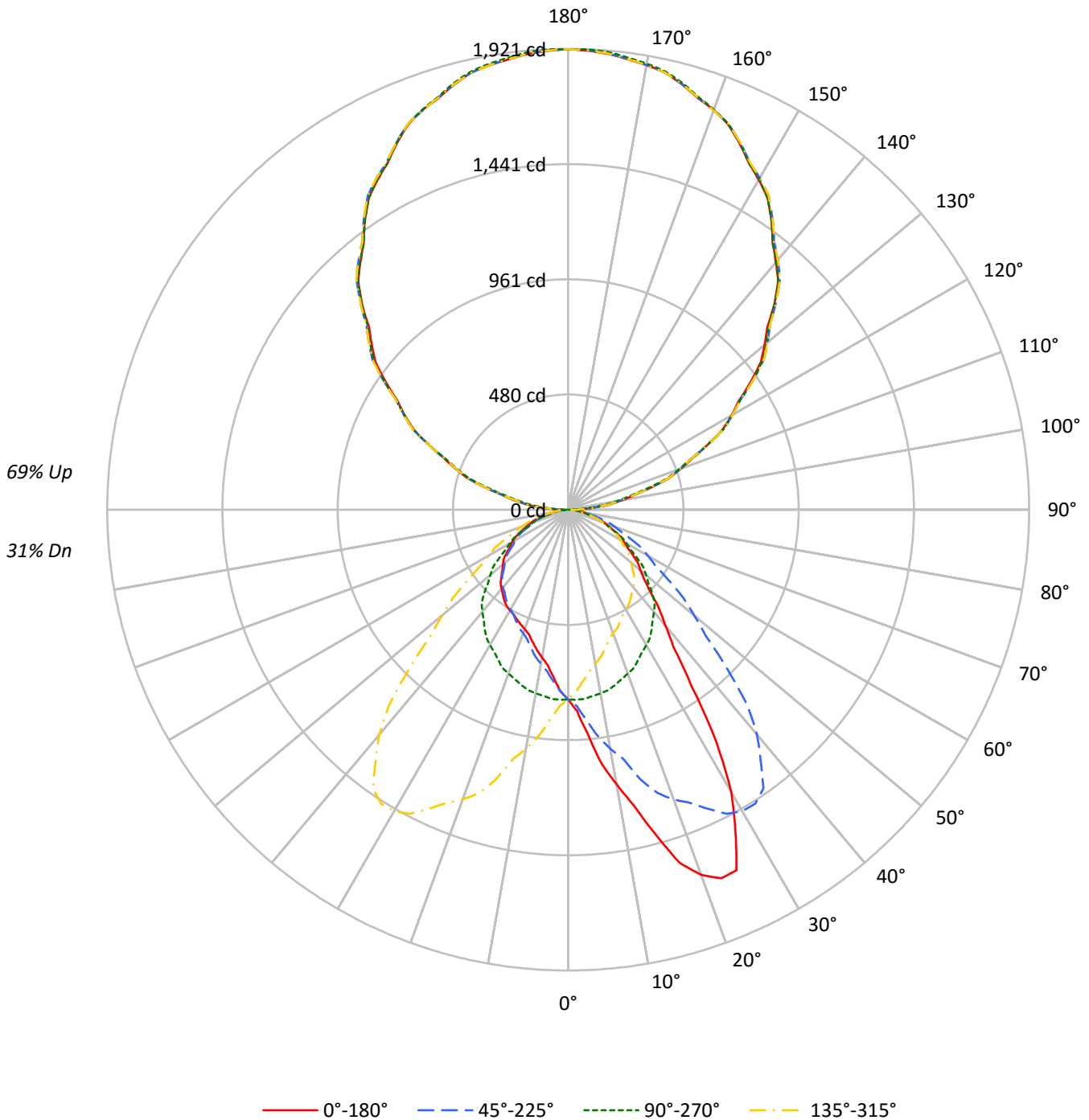
Input Watts (W): 60.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39	31	
1	94	90	86	82	84	81	78	75	64	62	60	49	47	46	34	34	33	34	34	33	26	
2	85	78	72	68	77	71	66	61	56	53	50	43	41	39	30	29	28	30	29	28	22	
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	25	24	27	25	24	19	
4	71	61	53	48	64	55	49	44	44	39	36	34	31	28	24	22	21	24	22	21	17	
5	65	54	46	41	59	49	42	37	39	35	31	30	27	24	22	20	18	22	20	18	14	
6	60	49	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	20	18	16	13	
7	56	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14	18	16	14	11	
8	51	40	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	17	14	13	10	
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	15	13	11	9	
10	45	33	26	21	40	30	24	20	24	20	17	19	16	13	14	12	10	14	12	10	8	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8509	8509	8509	8509
5°	10147	8546	7573	8546
10°	12701	8502	6840	8502
15°	15578	8433	6367	8433
20°	18558	8326	6063	8326
25°	19705	8197	5995	8197
30°	16890	8103	6027	8103
35°	11746	7967	6089	7967
40°	8847	7808	6070	7808
45°	7346	7573	5993	7573
50°	6581	7093	5940	7093
55°	6152	6576	5864	6576
60°	5772	6036	5804	6036
65°	5422	5501	5619	5501
70°	5086	4894	5350	4894
75°	4554	4284	4907	4284
80°	3986	3515	4228	3515
85°	3125	2556	2841	2556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	1.0
10°-20°	249.7	3.2
20°-30°	419.1	5.4
30°-40°	474.5	6.2
40°-50°	425.5	5.5
50°-60°	343.4	4.5
60°-70°	239.3	3.1
70°-80°	125.8	1.6
80°-90°	36.4	0.5
90°-100°	125.1	1.6
100°-110°	374.3	4.9
110°-120°	636.6	8.3
120°-130°	837.4	10.9
130°-140°	941.2	12.2
140°-150°	925.2	12.0
150°-160°	778.9	10.1
160°-170°	518.5	6.7
170°-180°	181.6	2.4
0°-30°	746.6	9.7
0°-40°	1221.1	15.8
0°-60°	1990.1	25.8
0°-90°	2391.6	31.0
90°-120°	1136.0	14.7
90°-150°	3839.7	49.8
90°-180°	5319.0	69.0
0°-180°	7710.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	790	790	790	790	790	
5°	939	791	701	791	939	97
15°	1398	757	571	757	1398	404
25°	1659	690	505	690	1659	728
35°	894	606	463	606	894	581
45°	483	498	394	498	483	382
55°	328	350	312	350	328	294
65°	213	216	221	216	213	212
75°	110	103	118	103	110	117
85°	25	21	23	21	25	31
90°	45	2	45	2	45	23
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°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	838.9	838.3	836.8	838.0	835.5	832.2	831.9	828.8	819.9	819.3	816.9
5°	939.1	936.0	935.7	935.3	929.9	922.6	908.8	907.7	889.3	880.1	869.0
7.5°	1068.9	1070.5	1064.9	1060.0	1043.6	1032.8	1018.0	999.1	976.5	953.6	938.3
10°	1162.0	1174.6	1158.9	1148.2	1138.3	1119.5	1097.7	1070.5	1043.3	1011.5	987.4
12.5°	1261.9	1268.1	1265.0	1254.8	1239.4	1210.8	1172.1	1142.2	1117.1	1064.2	1042.8
15°	1397.9	1421.3	1406.4	1371.9	1372.7	1345.5	1294.9	1239.4	1209.9	1163.5	1100.3
17.5°	1542.9	1545.8	1539.4	1510.7	1491.5	1454.2	1407.5	1354.3	1294.5	1238.5	1171.4
20°	1620.1	1617.8	1604.4	1589.4	1556.5	1527.4	1476.4	1417.1	1340.5	1285.3	1212.2
22.5°	1663.0	1659.1	1652.8	1640.3	1612.9	1581.6	1535.9	1471.0	1398.1	1322.1	1237.6
25°	1659.1	1664.1	1664.9	1661.4	1651.9	1633.1	1597.1	1545.4	1472.6	1375.0	1286.9
27.5°	1509.0	1516.0	1536.5	1554.7	1575.0	1595.6	1592.9	1567.2	1513.4	1429.0	1321.3
30°	1358.9	1343.5	1381.5	1429.3	1461.9	1519.3	1551.5	1553.4	1523.2	1450.8	1345.8
32.5°	1150.5	1167.4	1184.1	1243.0	1314.2	1378.7	1442.7	1494.3	1500.2	1452.0	1360.2
35°	893.9	915.0	945.6	976.3	1052.9	1118.7	1231.3	1329.4	1407.5	1417.8	1361.5
37.5°	720.3	730.8	750.1	780.8	830.9	909.1	996.2	1120.1	1233.3	1317.5	1321.2
40°	629.6	632.7	654.5	677.9	718.5	782.8	861.4	970.9	1106.5	1224.1	1273.1
42.5°	561.6	568.4	577.6	600.1	632.4	680.8	753.8	844.4	968.6	1103.9	1199.8
45°	482.6	490.2	496.0	510.9	533.9	566.4	617.4	700.1	794.7	934.5	1063.6
47.5°	430.3	430.9	435.2	446.5	462.1	486.6	522.6	575.7	662.6	775.9	908.5
50°	393.0	399.1	400.6	409.4	421.7	439.7	469.6	514.7	586.0	685.6	807.4
52.5°	366.6	368.4	372.7	379.1	389.8	403.8	429.7	465.1	521.0	605.9	717.9
55°	327.8	327.8	332.1	337.0	343.2	355.8	373.0	399.1	441.6	507.5	600.2
57.5°	292.0	293.9	296.9	298.4	303.6	312.0	326.4	346.2	377.9	428.6	502.3
60°	268.1	271.5	271.2	274.2	278.8	285.3	297.6	313.7	342.0	382.6	444.7
62.5°	247.3	247.0	247.0	250.6	255.2	261.4	269.4	283.3	307.4	343.4	396.2
65°	212.9	212.2	214.9	217.2	218.7	223.3	229.4	241.7	257.8	284.6	325.5
67.5°	182.5	180.2	181.7	182.5	185.1	188.7	194.4	202.0	214.8	236.3	267.2
70°	161.6	159.7	159.3	160.1	162.4	165.1	169.3	176.6	188.4	205.7	228.3
72.5°	140.2	138.9	138.8	140.5	141.6	143.3	146.3	153.0	162.4	175.3	196.4
75°	109.5	109.5	109.5	109.9	111.1	112.6	114.9	118.3	125.6	134.8	149.0
77.5°	82.1	82.0	81.6	81.5	83.2	83.9	84.4	87.6	91.7	97.9	108.2
80°	64.3	62.4	63.2	64.3	65.1	65.5	66.6	67.4	70.9	74.3	81.6
82.5°	47.8	46.2	46.3	48.1	48.3	48.6	49.8	50.9	52.2	55.3	59.2
85°	25.3	25.3	25.7	25.7	26.0	25.7	26.8	27.2	27.2	29.1	31.4
87.5°	18.2	17.5	17.7	17.8	17.4	17.5	17.5	17.6	17.6	17.7	17.1
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°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	815.0	812.6	810.1	805.8	802.1	796.9	795.4	793.6	788.1	783.1	779.5
5°	864.8	855.6	842.2	829.9	820.0	806.6	798.9	790.9	779.4	769.1	760.6
7.5°	916.9	898.8	878.0	855.5	834.5	814.2	797.9	783.4	767.3	752.0	740.2
10°	958.3	932.2	903.1	871.7	844.9	818.8	797.0	777.9	757.2	739.2	724.2
12.5°	1005.4	966.8	926.7	888.5	856.8	820.7	794.3	769.9	746.5	724.8	708.0
15°	1061.3	1012.3	964.8	912.3	864.0	818.8	787.4	756.8	729.6	707.4	685.9
17.5°	1112.1	1056.6	994.0	930.2	872.0	818.4	774.4	739.8	705.8	678.6	657.2
20°	1140.9	1077.7	1006.9	940.6	876.3	816.5	768.3	726.9	690.2	661.4	637.3
22.5°	1165.8	1091.8	1018.5	947.7	876.0	811.6	757.0	714.4	674.5	646.4	620.8
25°	1191.5	1103.0	1029.5	946.4	866.3	799.7	738.4	690.2	650.3	617.4	591.0
27.5°	1213.6	1102.3	1015.0	925.6	851.2	784.4	719.0	667.2	624.9	589.1	562.3
30°	1228.3	1103.8	1000.0	911.5	836.5	767.5	703.9	651.9	607.4	571.0	545.8
32.5°	1237.5	1102.9	986.2	891.9	813.2	752.2	687.7	633.8	588.1	552.4	528.0
35°	1242.8	1096.1	962.5	851.4	775.6	716.2	662.2	606.3	558.4	525.1	497.5
37.5°	1232.1	1082.0	934.9	812.3	729.3	670.9	625.4	577.8	532.0	495.3	471.5
40°	1215.2	1072.8	913.4	784.8	697.4	641.1	602.5	555.7	510.5	475.7	453.5
42.5°	1183.1	1054.1	889.9	754.1	664.3	608.0	572.4	533.4	490.6	457.9	435.7
45°	1104.6	1013.4	854.5	708.2	615.5	557.3	525.9	497.5	458.8	427.0	407.9
47.5°	995.6	952.2	803.3	659.7	564.5	508.5	475.8	453.0	424.7	399.1	380.7
50°	920.0	902.0	768.7	626.6	530.4	475.7	444.3	423.6	403.3	377.6	360.8
52.5°	832.6	843.7	728.2	592.3	495.8	442.0	412.4	396.0	377.6	356.5	341.8
55°	709.7	749.9	658.4	534.7	444.3	393.0	365.0	350.4	339.7	324.0	311.4
57.5°	594.6	645.7	582.8	475.3	393.6	349.4	322.6	306.7	299.8	291.6	281.7
60°	526.2	576.8	528.9	435.5	359.6	317.5	293.8	280.4	273.5	267.7	259.3
62.5°	465.3	516.4	476.2	395.0	326.2	287.2	266.5	253.4	248.0	245.0	237.8
65°	381.5	425.5	398.7	332.1	278.4	244.0	225.2	216.0	211.0	209.9	205.3
67.5°	310.5	344.0	324.5	275.4	233.2	203.4	187.5	179.7	175.9	175.5	172.0
70°	263.9	295.3	280.4	235.9	199.5	176.2	162.4	155.5	153.2	152.8	150.9
72.5°	227.7	249.6	237.8	200.7	172.6	151.4	141.2	134.0	131.4	132.0	130.7
75°	168.5	185.0	178.1	152.4	129.8	116.0	107.6	103.0	100.7	101.9	100.3
77.5°	121.3	131.7	125.5	107.7	93.8	83.8	77.6	74.8	72.7	72.6	71.9
80°	91.5	97.7	94.2	83.5	72.0	63.6	58.6	56.7	55.5	55.2	54.8
82.5°	65.2	70.4	66.3	59.0	51.2	46.1	43.3	40.8	39.9	40.1	39.8
85°	32.9	34.9	33.3	28.7	25.7	23.4	21.8	20.7	19.9	20.3	19.5
87.5°	16.8	16.3	14.5	12.5	11.2	9.6	8.9	7.7	7.7	8.4	8.7
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: P332145

CATALOG NUMBER: S123DIW-S560D1535U835-4F0-1E-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



TEST NUMBER: P332145

CATALOG NUMBER: S123DIW-S560D1535U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	777.3	775.2	772.1	767.5	763.8	758.0	758.0	758.9	758.9	758.6	758.0
5°	753.7	748.0	741.1	733.1	724.6	716.2	714.7	711.6	709.3	707.8	705.9
7.5°	728.8	718.7	708.6	697.4	687.1	678.6	672.7	667.8	664.6	661.3	658.8
10°	712.0	699.3	687.5	675.6	662.6	652.2	645.7	641.1	637.7	634.6	633.1
12.5°	692.1	677.6	664.5	653.2	639.0	628.3	622.1	620.0	615.9	609.5	606.1
15°	663.0	649.6	633.9	616.6	609.7	596.7	589.4	586.0	583.7	578.7	577.2
17.5°	638.1	620.5	602.9	590.0	577.2	566.7	562.6	558.3	555.3	551.2	550.0
20°	618.2	602.5	586.4	572.6	559.2	547.7	544.2	541.2	538.1	536.2	534.7
22.5°	597.9	582.2	568.9	556.0	541.7	534.2	530.4	527.1	524.9	523.6	522.1
25°	569.5	555.7	540.8	529.3	517.8	512.8	510.5	508.6	507.1	505.2	504.8
27.5°	544.1	529.1	517.0	506.2	498.0	493.8	491.6	490.7	491.0	491.7	492.1
30°	525.1	511.3	501.3	492.1	484.5	480.7	480.3	480.3	481.8	482.2	483.0
32.5°	507.6	496.3	486.3	477.4	471.6	469.0	470.5	470.5	471.7	472.7	474.1
35°	482.2	472.2	464.6	456.9	451.9	453.1	453.8	454.6	456.5	458.8	460.4
37.5°	457.9	449.3	441.3	435.3	433.0	435.1	436.9	438.5	440.8	442.5	444.0
40°	440.4	433.9	426.3	420.9	421.7	422.8	424.4	426.3	428.2	429.3	430.9
42.5°	424.2	417.4	411.6	407.1	408.2	409.7	410.6	411.6	413.8	415.9	416.8
45°	399.5	394.1	388.7	386.1	386.8	387.6	388.4	389.5	391.4	393.0	393.3
47.5°	371.7	367.9	364.3	361.7	362.9	362.6	363.6	366.1	366.7	367.6	369.7
50°	353.9	350.4	346.2	345.5	345.5	345.5	345.8	348.9	348.9	350.4	352.0
52.5°	334.3	332.1	329.4	328.0	327.4	327.4	329.0	330.5	331.1	333.3	334.8
55°	305.2	302.9	300.7	299.5	298.7	299.5	302.6	303.3	305.2	306.4	307.5
57.5°	275.0	273.2	271.4	270.8	270.6	271.6	273.3	275.6	276.1	279.6	281.3
60°	255.1	252.4	250.9	250.9	250.1	253.5	252.8	256.6	257.4	259.7	262.4
62.5°	234.5	230.9	230.3	230.3	231.4	232.4	233.5	235.2	237.2	240.1	242.1
65°	201.5	199.5	202.2	201.8	201.1	203.4	203.4	205.3	207.6	210.3	214.5
67.5°	170.1	169.1	169.4	169.4	170.5	171.8	172.9	174.6	177.3	180.2	182.9
70°	149.0	150.1	148.2	149.8	150.9	151.3	152.0	154.3	157.4	159.3	162.4
72.5°	128.5	128.4	128.6	129.2	130.4	131.1	131.8	134.4	137.8	139.4	141.9
75°	98.8	98.4	99.6	99.6	101.5	102.3	103.0	104.2	107.2	109.5	111.5
77.5°	72.2	72.6	72.4	73.7	73.2	73.3	75.7	76.8	77.1	81.7	82.7
80°	54.4	55.2	55.5	55.9	56.3	55.5	58.2	59.4	59.4	62.0	64.0
82.5°	39.1	39.5	40.5	40.9	41.0	41.7	42.0	42.8	43.7	44.9	47.4
85°	19.5	20.7	21.1	20.7	21.1	20.3	21.4	21.8	22.2	22.2	22.2
87.5°	9.1	10.2	10.8	11.9	12.5	13.7	13.9	13.6	13.9	15.1	14.0
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: P332145

CATALOG NUMBER: S123DIW-S560D1535U835-4F0-1E-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: P332145

CATALOG NUMBER: S123DIW-S560D1535U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	755.9	755.6	757.7	756.2	757.7	755.6	755.9	758.0	758.6	758.9	758.9
5°	703.6	704.7	700.9	700.9	700.9	704.7	703.6	705.9	707.8	709.3	711.6
7.5°	657.0	655.3	655.5	653.4	655.5	655.3	657.0	658.8	661.3	664.6	667.8
10°	628.5	626.2	625.4	625.8	625.4	626.2	628.5	633.1	634.6	637.7	641.1
12.5°	604.9	604.4	599.4	599.5	599.4	604.4	604.9	606.1	609.5	615.9	620.0
15°	577.2	569.9	569.1	571.4	569.1	569.9	577.2	577.2	578.7	583.7	586.0
17.5°	549.4	545.5	545.8	544.6	545.8	545.5	549.4	550.0	551.2	555.3	558.3
20°	534.7	532.4	532.0	529.3	532.0	532.4	534.7	534.7	536.2	538.1	541.2
22.5°	521.2	520.4	520.6	517.7	520.6	520.4	521.2	522.1	523.6	524.9	527.1
25°	504.4	506.3	504.8	504.8	504.8	506.3	504.4	504.8	505.2	507.1	508.6
27.5°	493.1	493.0	492.2	492.2	492.2	493.0	493.1	492.1	491.7	491.0	490.7
30°	484.5	484.1	484.9	484.9	484.9	484.1	484.5	483.0	482.2	481.8	480.3
32.5°	475.9	476.4	476.6	476.9	476.6	476.4	475.9	474.1	472.7	471.7	470.5
35°	462.7	463.0	464.2	463.4	464.2	463.0	462.7	460.4	458.8	456.5	454.6
37.5°	444.7	446.5	446.1	446.7	446.1	446.5	444.7	444.0	442.5	440.8	438.5
40°	431.3	432.4	432.0	432.0	432.0	432.4	431.3	430.9	429.3	428.2	426.3
42.5°	417.5	418.3	417.3	416.7	417.3	418.3	417.5	416.8	415.9	413.8	411.6
45°	394.9	394.1	395.3	393.7	395.3	394.1	394.9	393.3	393.0	391.4	389.5
47.5°	369.6	370.4	370.7	371.8	370.7	370.4	369.6	369.7	367.6	366.7	366.1
50°	352.7	355.0	355.0	354.7	355.0	355.0	352.7	352.0	350.4	348.9	348.9
52.5°	336.2	337.3	338.8	338.7	338.8	337.3	336.2	334.8	333.3	331.1	330.5
55°	310.6	311.4	312.1	312.5	312.1	311.4	310.6	307.5	306.4	305.2	303.3
57.5°	284.1	283.8	285.6	286.2	285.6	283.8	284.1	281.3	279.6	276.1	275.6
60°	265.4	265.4	268.5	269.6	268.5	265.4	265.4	262.4	259.7	257.4	256.6
62.5°	245.5	246.7	249.8	248.2	249.8	246.7	245.5	242.1	240.1	237.2	235.2
65°	216.4	219.5	219.1	220.6	219.1	219.5	216.4	214.5	210.3	207.6	205.3
67.5°	186.0	187.9	190.7	190.9	190.7	187.9	186.0	182.9	180.2	177.3	174.6
70°	165.5	167.4	168.9	170.0	168.9	167.4	165.5	162.4	159.3	157.4	154.3
72.5°	145.5	146.5	150.2	148.6	150.2	146.5	145.5	141.9	139.4	137.8	134.4
75°	114.1	116.8	119.1	118.0	119.1	116.8	114.1	111.5	109.5	107.2	104.2
77.5°	84.4	87.1	88.2	87.2	88.2	87.1	84.4	82.7	81.7	77.1	76.8
80°	66.6	66.3	68.6	68.2	68.6	66.3	66.6	64.0	62.0	59.4	59.4
82.5°	48.9	48.5	49.6	49.8	49.6	48.5	48.9	47.4	44.9	43.7	42.8
85°	23.7	24.9	23.4	23.0	23.4	24.9	23.7	22.2	22.2	22.2	21.8
87.5°	14.2	14.3	14.1	14.0	14.1	14.3	14.2	14.0	15.1	13.9	13.6
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



TEST NUMBER: P332145

CATALOG NUMBER: S123DIW-S560D1535U835-4F0-1E-UDD-A1

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



TEST NUMBER: P332145

CATALOG NUMBER: S123DIW-S560D1535U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	758.0	758.0	763.8	767.5	772.1	775.2	777.3	779.5	783.1	788.1	793.6
5°	714.7	716.2	724.6	733.1	741.1	748.0	753.7	760.6	769.1	779.4	790.9
7.5°	672.7	678.6	687.1	697.4	708.6	718.7	728.8	740.2	752.0	767.3	783.4
10°	645.7	652.2	662.6	675.6	687.5	699.3	712.0	724.2	739.2	757.2	777.9
12.5°	622.1	628.3	639.0	653.2	664.5	677.6	692.1	708.0	724.8	746.5	769.9
15°	589.4	596.7	609.7	616.6	633.9	649.6	663.0	685.9	707.4	729.6	756.8
17.5°	562.6	566.7	577.2	590.0	602.9	620.5	638.1	657.2	678.6	705.8	739.8
20°	544.2	547.7	559.2	572.6	586.4	602.5	618.2	637.3	661.4	690.2	726.9
22.5°	530.4	534.2	541.7	556.0	568.9	582.2	597.9	620.8	646.4	674.5	714.4
25°	510.5	512.8	517.8	529.3	540.8	555.7	569.5	591.0	617.4	650.3	690.2
27.5°	491.6	493.8	498.0	506.2	517.0	529.1	544.1	562.3	589.1	624.9	667.2
30°	480.3	480.7	484.5	492.1	501.3	511.3	525.1	545.8	571.0	607.4	651.9
32.5°	470.5	469.0	471.6	477.4	486.3	496.3	507.6	528.0	552.4	588.1	633.8
35°	453.8	453.1	451.9	456.9	464.6	472.2	482.2	497.5	525.1	558.4	606.3
37.5°	436.9	435.1	433.0	435.3	441.3	449.3	457.9	471.5	495.3	532.0	577.8
40°	424.4	422.8	421.7	420.9	426.3	433.9	440.4	453.5	475.7	510.5	555.7
42.5°	410.6	409.7	408.2	407.1	411.6	417.4	424.2	435.7	457.9	490.6	533.4
45°	388.4	387.6	386.8	386.1	388.7	394.1	399.5	407.9	427.0	458.8	497.5
47.5°	363.6	362.6	362.9	361.7	364.3	367.9	371.7	380.7	399.1	424.7	453.0
50°	345.8	345.5	345.5	345.5	346.2	350.4	353.9	360.8	377.6	403.3	423.6
52.5°	329.0	327.4	327.4	328.0	329.4	332.1	334.3	341.8	356.5	377.6	396.0
55°	302.6	299.5	298.7	299.5	300.7	302.9	305.2	311.4	324.0	339.7	350.4
57.5°	273.3	271.6	270.6	270.8	271.4	273.2	275.0	281.7	291.6	299.8	306.7
60°	252.8	253.5	250.1	250.9	250.9	252.4	255.1	259.3	267.7	273.5	280.4
62.5°	233.5	232.4	231.4	230.3	230.3	230.9	234.5	237.8	245.0	248.0	253.4
65°	203.4	203.4	201.1	201.8	202.2	199.5	201.5	205.3	209.9	211.0	216.0
67.5°	172.9	171.8	170.5	169.4	169.4	169.1	170.1	172.0	175.5	175.9	179.7
70°	152.0	151.3	150.9	149.8	148.2	150.1	149.0	150.9	152.8	153.2	155.5
72.5°	131.8	131.1	130.4	129.2	128.6	128.4	128.5	130.7	132.0	131.4	134.0
75°	103.0	102.3	101.5	99.6	99.6	98.4	98.8	100.3	101.9	100.7	103.0
77.5°	75.7	73.3	73.2	73.7	72.4	72.6	72.2	71.9	72.6	72.7	74.8
80°	58.2	55.5	56.3	55.9	55.5	55.2	54.4	54.8	55.2	55.5	56.7
82.5°	42.0	41.7	41.0	40.9	40.5	39.5	39.1	39.8	40.1	39.9	40.8
85°	21.4	20.3	21.1	20.7	21.1	20.7	19.5	19.5	20.3	19.9	20.7
87.5°	13.9	13.7	12.5	11.9	10.8	10.2	9.1	8.7	8.4	7.7	7.7
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: P332145

CATALOG NUMBER: S123DIW-S560D1535U835-4F0-1E-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: P332145

CATALOG NUMBER: S123DIW-S560D1535U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	795.4	796.9	802.1	805.8	810.1	812.6	815.0	816.9	819.3	819.9	828.8
5°	798.9	806.6	820.0	829.9	842.2	855.6	864.8	869.0	880.1	889.3	907.7
7.5°	797.9	814.2	834.5	855.5	878.0	898.8	916.9	938.3	953.6	976.5	999.1
10°	797.0	818.8	844.9	871.7	903.1	932.2	958.3	987.4	1011.5	1043.3	1070.5
12.5°	794.3	820.7	856.8	888.5	926.7	966.8	1005.4	1042.8	1064.2	1117.1	1142.2
15°	787.4	818.8	864.0	912.3	964.8	1012.3	1061.3	1100.3	1163.5	1209.9	1239.4
17.5°	774.4	818.4	872.0	930.2	994.0	1056.6	1112.1	1171.4	1238.5	1294.5	1354.3
20°	768.3	816.5	876.3	940.6	1006.9	1077.7	1140.9	1212.2	1285.3	1340.5	1417.1
22.5°	757.0	811.6	876.0	947.7	1018.5	1091.8	1165.8	1237.6	1322.1	1398.1	1471.0
25°	738.4	799.7	866.3	946.4	1029.5	1103.0	1191.5	1286.9	1375.0	1472.6	1545.4
27.5°	719.0	784.4	851.2	925.6	1015.0	1102.3	1213.6	1321.3	1429.0	1513.4	1567.2
30°	703.9	767.5	836.5	911.5	1000.0	1103.8	1228.3	1345.8	1450.8	1523.2	1553.4
32.5°	687.7	752.2	813.2	891.9	986.2	1102.9	1237.5	1360.2	1452.0	1500.2	1494.3
35°	662.2	716.2	775.6	851.4	962.5	1096.1	1242.8	1361.5	1417.8	1407.5	1329.4
37.5°	625.4	670.9	729.3	812.3	934.9	1082.0	1232.1	1321.2	1317.5	1233.3	1120.1
40°	602.5	641.1	697.4	784.8	913.4	1072.8	1215.2	1273.1	1224.1	1106.5	970.9
42.5°	572.4	608.0	664.3	754.1	889.9	1054.1	1183.1	1199.8	1103.9	968.6	844.4
45°	525.9	557.3	615.5	708.2	854.5	1013.4	1104.6	1063.6	934.5	794.7	700.1
47.5°	475.8	508.5	564.5	659.7	803.3	952.2	995.6	908.5	775.9	662.6	575.7
50°	444.3	475.7	530.4	626.6	768.7	902.0	920.0	807.4	685.6	586.0	514.7
52.5°	412.4	442.0	495.8	592.3	728.2	843.7	832.6	717.9	605.9	521.0	465.1
55°	365.0	393.0	444.3	534.7	658.4	749.9	709.7	600.2	507.5	441.6	399.1
57.5°	322.6	349.4	393.6	475.3	582.8	645.7	594.6	502.3	428.6	377.9	346.2
60°	293.8	317.5	359.6	435.5	528.9	576.8	526.2	444.7	382.6	342.0	313.7
62.5°	266.5	287.2	326.2	395.0	476.2	516.4	465.3	396.2	343.4	307.4	283.3
65°	225.2	244.0	278.4	332.1	398.7	425.5	381.5	325.5	284.6	257.8	241.7
67.5°	187.5	203.4	233.2	275.4	324.5	344.0	310.5	267.2	236.3	214.8	202.0
70°	162.4	176.2	199.5	235.9	280.4	295.3	263.9	228.3	205.7	188.4	176.6
72.5°	141.2	151.4	172.6	200.7	237.8	249.6	227.7	196.4	175.3	162.4	153.0
75°	107.6	116.0	129.8	152.4	178.1	185.0	168.5	149.0	134.8	125.6	118.3
77.5°	77.6	83.8	93.8	107.7	125.5	131.7	121.3	108.2	97.9	91.7	87.6
80°	58.6	63.6	72.0	83.5	94.2	97.7	91.5	81.6	74.3	70.9	67.4
82.5°	43.3	46.1	51.2	59.0	66.3	70.4	65.2	59.2	55.3	52.2	50.9
85°	21.8	23.4	25.7	28.7	33.3	34.9	32.9	31.4	29.1	27.2	27.2
87.5°	8.9	9.6	11.2	12.5	14.5	16.3	16.8	17.1	17.7	17.6	17.6
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°	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	831.9	832.2	835.5	838.0	836.8	838.3	838.9
5°	908.8	922.6	929.9	935.3	935.7	936.0	939.1
7.5°	1018.0	1032.8	1043.6	1060.0	1064.9	1070.5	1068.9
10°	1097.7	1119.5	1138.3	1148.2	1158.9	1174.6	1162.0
12.5°	1172.1	1210.8	1239.4	1254.8	1265.0	1268.1	1261.9
15°	1294.9	1345.5	1372.7	1371.9	1406.4	1421.3	1397.9
17.5°	1407.5	1454.2	1491.5	1510.7	1539.4	1545.8	1542.9
20°	1476.4	1527.4	1556.5	1589.4	1604.4	1617.8	1620.1
22.5°	1535.9	1581.6	1612.9	1640.3	1652.8	1659.1	1663.0
25°	1597.1	1633.1	1651.9	1661.4	1664.9	1664.1	1659.1
27.5°	1592.9	1595.6	1575.0	1554.7	1536.5	1516.0	1509.0
30°	1551.5	1519.3	1461.9	1429.3	1381.5	1343.5	1358.9
32.5°	1442.7	1378.7	1314.2	1243.0	1184.1	1167.4	1150.5
35°	1231.3	1118.7	1052.9	976.3	945.6	915.0	893.9
37.5°	996.2	909.1	830.9	780.8	750.1	730.8	720.3
40°	861.4	782.8	718.5	677.9	654.5	632.7	629.6
42.5°	753.8	680.8	632.4	600.1	577.6	568.4	561.6
45°	617.4	566.4	533.9	510.9	496.0	490.2	482.6
47.5°	522.6	486.6	462.1	446.5	435.2	430.9	430.3
50°	469.6	439.7	421.7	409.4	400.6	399.1	393.0
52.5°	429.7	403.8	389.8	379.1	372.7	368.4	366.6
55°	373.0	355.8	343.2	337.0	332.1	327.8	327.8
57.5°	326.4	312.0	303.6	298.4	296.9	293.9	292.0
60°	297.6	285.3	278.8	274.2	271.2	271.5	268.1
62.5°	269.4	261.4	255.2	250.6	247.0	247.0	247.3
65°	229.4	223.3	218.7	217.2	214.9	212.2	212.9
67.5°	194.4	188.7	185.1	182.5	181.7	180.2	182.5
70°	169.3	165.1	162.4	160.1	159.3	159.7	161.6
72.5°	146.3	143.3	141.6	140.5	138.8	138.9	140.2
75°	114.9	112.6	111.1	109.9	109.5	109.5	109.5
77.5°	84.4	83.9	83.2	81.5	81.6	82.0	82.1
80°	66.6	65.5	65.1	64.3	63.2	62.4	64.3
82.5°	49.8	48.6	48.3	48.1	46.3	46.2	47.8
85°	26.8	25.7	26.0	25.7	25.7	25.3	25.3
87.5°	17.5	17.5	17.4	17.8	17.7	17.5	18.2
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)