

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: P332439

Luminaire Tested: **S123RDIW-S775D1030U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332439
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-S775D1030U835-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1030 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6622.2 lumens
Efficiency: N/A
Efficacy: 125.9 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: General Diffuse

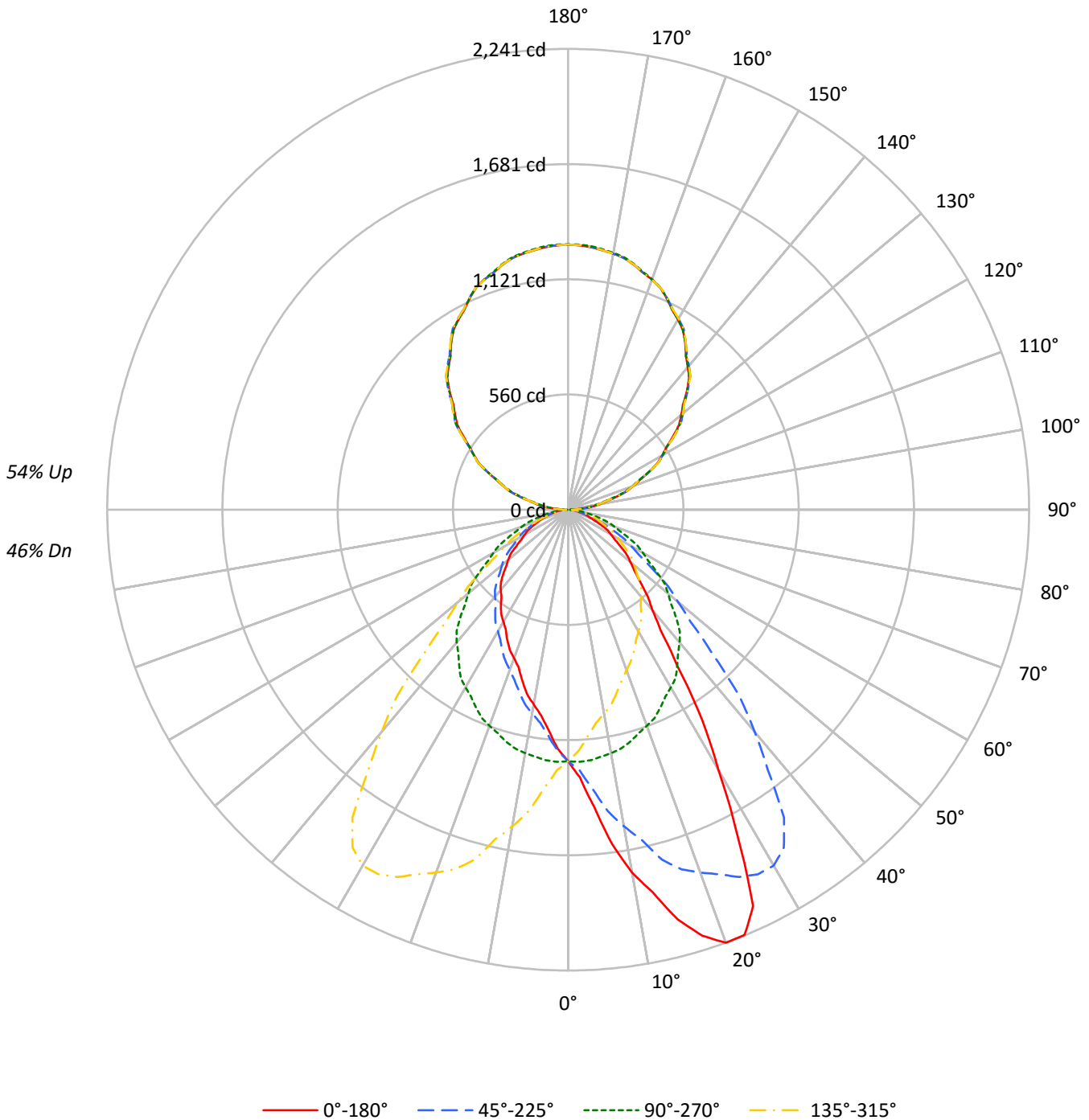
Input Watts (W): 52.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46					46			
1	97	93	90	86	89	86	83	80	72	70	68	59	58	56	47	46	45	40					40			
2	89	82	76	71	82	76	71	66	64	60	57	52	50	48	42	41	39	34					34			
3	82	73	66	60	75	67	61	56	57	52	48	47	44	41	38	36	34	30					30			
4	75	65	57	51	69	60	53	48	51	46	42	42	38	36	34	32	30	26					26			
5	69	58	50	44	63	54	47	42	45	40	36	38	34	31	31	28	26	23					23			
6	64	52	44	39	58	48	41	36	41	36	32	34	31	27	28	25	23	20					20			
7	59	47	39	34	54	44	37	32	37	32	28	31	27	24	26	23	21	18					18			
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	16					16			
9	51	39	32	27	47	36	30	25	31	26	23	27	23	20	22	19	17	15					15			
10	48	36	29	24	44	34	27	23	29	24	20	25	21	18	21	18	15	14					14			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13164	13164	13164	13164
5°	15692	13220	11642	13220
10°	19593	13144	10518	13144
15°	22998	13010	9591	13010
20°	25668	12810	8804	12810
25°	25258	12598	8320	12598
30°	18155	12403	7822	12403
35°	12122	12150	7499	12150
40°	8931	11844	7165	11844
45°	7491	11309	6838	11309
50°	6611	10608	6382	10608
55°	5797	9805	5758	9805
60°	5162	9040	5274	9040
65°	4534	8214	4908	8214
70°	3559	7481	4482	7481
75°	3136	6534	4092	6534
80°	2727	5548	4023	5548
85°	2198	4458	4273	4458



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.3	1.8
10°-20°	375.7	5.7
20°-30°	590.3	8.9
30°-40°	615.9	9.3
40°-50°	527.1	8.0
50°-60°	401.7	6.1
60°-70°	257.5	3.9
70°-80°	123.9	1.9
80°-90°	36.6	0.6
90°-100°	84.0	1.3
100°-110°	251.5	3.8
110°-120°	427.7	6.5
120°-130°	562.6	8.5
130°-140°	632.3	9.5
140°-150°	621.6	9.4
150°-160°	523.3	7.9
160°-170°	348.3	5.3
170°-180°	122.0	1.8
0°-30°	1086.3	16.4
0°-40°	1702.2	25.7
0°-60°	2631.0	39.7
0°-90°	3048.9	46.0
90°-120°	763.2	11.5
90°-150°	2579.7	39.0
90°-180°	3573.0	54.0
0°-180°	6622.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1223	1223	1223	1223	1223	
5°	1452	1224	1078	1224	1452	150
15°	2064	1168	861	1168	2064	585
25°	2127	1061	700	1061	2127	914
35°	922	925	571	925	922	605
45°	492	743	449	743	492	387
55°	309	522	307	522	309	279
65°	178	322	193	322	178	175
75°	75	157	98	157	75	81
85°	18	36	35	36	18	21
90°	30	1	30	1	30	15
95°	79	60	79	60	79	81
105°	241	228	241	228	241	256
115°	432	431	432	431	432	427
125°	623	630	623	630	623	557
135°	817	818	817	818	817	628
145°	992	992	992	992	992	619
155°	1134	1136	1134	1136	1134	522
165°	1233	1237	1233	1237	1233	348
175°	1282	1287	1282	1287	1282	122
180°	1290	1290	1290	1290	1290	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1302.6	1304.3	1298.8	1298.0	1291.7	1290.0	1290.0	1281.2	1275.8	1268.7	1264.5
5°	1452.3	1460.7	1456.5	1447.1	1431.4	1427.7	1417.8	1402.1	1384.3	1362.3	1351.8
7.5°	1639.3	1650.8	1646.4	1631.8	1615.4	1602.1	1574.0	1547.9	1511.4	1479.3	1451.9
10°	1792.6	1780.6	1771.2	1757.0	1741.9	1717.2	1687.9	1647.6	1601.0	1564.4	1523.5
12.5°	1907.4	1905.4	1893.5	1878.9	1857.5	1834.1	1798.1	1749.0	1694.8	1641.9	1595.2
15°	2063.8	2067.0	2059.1	2043.9	2013.6	1972.2	1917.8	1897.3	1819.9	1762.3	1704.7
17.5°	2172.1	2171.5	2170.4	2149.4	2118.4	2089.0	2038.5	1984.8	1914.6	1833.5	1755.9
20°	2240.8	2235.6	2236.6	2213.0	2190.0	2156.0	2106.8	2028.8	1971.2	1877.5	1797.3
22.5°	2239.1	2238.1	2242.1	2234.0	2217.2	2191.2	2152.4	2086.6	2013.1	1918.5	1828.3
25°	2126.7	2122.5	2147.1	2153.9	2180.6	2185.3	2173.8	2137.7	2068.0	1970.6	1859.1
27.5°	1779.9	1777.6	1823.2	1880.4	1952.8	2009.2	2063.6	2089.9	2068.0	1998.3	1886.6
30°	1460.7	1509.9	1533.0	1615.7	1707.8	1817.8	1914.1	2005.7	2028.2	1997.9	1906.2
32.5°	1212.8	1255.7	1274.9	1345.9	1431.8	1560.6	1705.1	1834.8	1926.5	1949.7	1894.5
35°	922.5	923.0	967.0	998.4	1078.0	1210.4	1350.8	1524.6	1697.3	1828.2	1841.8
37.5°	736.1	738.7	765.3	796.6	856.3	926.4	1049.9	1194.4	1394.0	1594.9	1712.7
40°	635.6	640.3	660.2	691.1	734.0	786.9	883.2	1019.4	1185.8	1409.4	1592.1
42.5°	571.1	578.7	589.0	612.8	639.4	688.9	766.8	871.9	1023.3	1234.7	1445.5
45°	492.1	496.3	504.2	515.2	539.3	573.8	626.2	696.8	822.5	992.7	1203.6
47.5°	434.1	431.9	440.2	449.1	465.1	488.7	523.8	581.5	671.1	807.6	986.6
50°	394.8	394.2	400.0	406.8	422.0	439.3	468.1	511.5	582.7	695.8	859.7
52.5°	357.9	359.9	364.0	372.5	383.4	397.4	423.2	454.5	515.7	613.3	749.9
55°	308.9	310.5	316.2	320.9	328.8	342.9	359.2	385.3	427.2	495.3	607.8
57.5°	267.4	266.7	272.2	273.4	282.3	293.8	306.4	326.7	357.1	407.6	483.4
60°	239.8	238.2	242.9	246.6	251.3	260.7	271.2	291.1	315.2	352.3	417.3
62.5°	214.7	213.9	217.4	221.0	224.9	233.5	242.3	257.6	276.6	308.0	359.5
65°	178.0	179.6	181.1	182.7	184.8	190.0	198.4	208.9	222.0	244.0	281.1
67.5°	139.9	141.5	142.0	145.2	149.7	153.0	158.1	167.4	176.5	195.1	216.2
70°	113.1	112.6	113.1	114.7	120.4	126.2	133.0	139.8	145.5	158.6	176.4
72.5°	97.2	96.2	97.6	97.9	100.7	102.3	106.6	113.0	120.4	129.3	142.1
75°	75.4	75.4	75.4	75.4	77.5	78.5	80.1	81.7	84.3	88.5	97.9
77.5°	55.7	55.8	56.5	57.1	57.5	58.1	59.1	60.6	61.6	63.8	67.9
80°	44.0	44.5	44.0	44.5	44.5	45.5	46.1	47.6	48.2	50.8	52.4
82.5°	33.1	32.8	33.1	33.6	33.6	34.7	34.8	35.9	36.0	37.4	39.0
85°	17.8	16.8	17.8	17.3	18.3	17.3	17.8	18.8	18.8	19.4	21.5
87.5°	10.3	11.0	10.1	10.4	10.3	10.6	10.4	10.2	10.9	10.3	10.1
90°	30.4	29.9	29.5	29.0	28.6	27.9	27.0	26.1	25.2	24.3	21.4
92.5°	40.9	41.2	41.5	41.7	42.0	41.8	41.1	40.3	39.6	38.9	37.2
95°	79.0	79.0	79.0	79.0	79.0	78.6	77.7	76.8	75.9	75.0	73.2
97.5°	121.6	121.7	121.8	121.8	121.9	121.5	120.4	119.4	118.4	117.3	116.0
100°	154.0	153.5	153.1	152.6	152.2	151.6	151.0	150.3	149.6	148.9	147.8
102.5°	187.2	187.3	187.4	187.5	187.6	187.3	186.6	185.9	185.3	184.6	183.1
105°	241.1	240.7	240.2	239.8	239.3	239.1	239.1	239.1	239.1	239.1	237.1
107.5°	297.2	297.5	297.8	298.1	298.3	298.1	297.4	296.7	295.9	295.2	294.4
110°	335.3	335.8	336.2	336.7	337.1	336.9	336.0	335.1	334.2	333.3	332.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	375.9	376.0	376.0	376.1	376.2	375.7	374.6	373.6	372.5	371.4	371.3
115°	431.6	431.8	432.0	432.3	432.5	432.5	432.3	432.0	431.8	431.6	432.0
117.5°	488.1	488.7	489.4	490.0	490.6	491.0	491.0	491.1	491.1	491.2	491.7
120°	527.8	528.3	528.7	529.2	529.6	530.0	530.2	530.4	530.6	530.9	532.0
122.5°	565.9	566.6	567.2	567.8	568.4	569.1	569.6	570.2	570.8	571.4	572.0
125°	623.1	624.0	624.9	625.8	626.7	627.6	628.5	629.4	630.3	631.2	631.6
127.5°	680.0	681.0	682.1	683.1	684.1	685.3	686.6	687.8	689.1	690.3	690.8
130°	717.3	718.9	720.4	722.0	723.6	724.8	725.7	726.6	727.5	728.4	729.1
132.5°	756.2	757.4	758.6	759.8	761.1	762.2	763.3	764.4	765.4	766.5	767.0
135°	816.6	817.0	817.5	817.9	818.4	819.0	819.9	820.8	821.7	822.6	822.9
137.5°	869.9	870.7	871.6	872.4	873.3	874.2	875.1	876.1	877.0	878.0	877.4
140°	904.7	906.3	907.9	909.4	911.0	911.9	912.1	912.4	912.6	912.8	912.6
142.5°	940.4	941.6	942.8	944.0	945.2	946.0	946.2	946.4	946.6	946.9	946.5
145°	991.8	992.7	993.6	994.5	995.4	996.0	996.2	996.5	996.7	996.9	996.2
147.5°	1037.6	1039.0	1040.3	1041.7	1043.0	1043.7	1043.7	1043.7	1043.7	1043.7	1043.1
150°	1066.8	1068.2	1069.5	1070.9	1072.2	1072.9	1072.9	1072.9	1072.9	1072.9	1072.4
152.5°	1095.2	1096.3	1097.5	1098.7	1099.9	1100.3	1099.9	1099.5	1099.2	1098.8	1098.6
155°	1133.7	1135.3	1136.8	1138.4	1140.0	1140.3	1139.4	1138.5	1137.6	1136.7	1136.5
157.5°	1168.7	1170.0	1171.3	1172.5	1173.8	1173.9	1173.0	1172.0	1171.1	1170.1	1170.0
160°	1191.4	1192.3	1193.2	1194.1	1195.0	1194.9	1193.8	1192.7	1191.5	1190.4	1190.4
162.5°	1208.4	1209.9	1211.3	1212.8	1214.2	1214.4	1213.2	1212.1	1211.0	1209.9	1209.7
165°	1233.0	1234.5	1236.1	1237.7	1239.3	1239.4	1238.0	1236.7	1235.3	1234.0	1234.0
167.5°	1253.8	1255.2	1256.6	1258.0	1259.4	1259.4	1258.0	1256.6	1255.2	1253.8	1253.7
170°	1264.4	1265.9	1267.5	1269.1	1270.7	1270.7	1269.1	1267.5	1265.9	1264.4	1264.4
172.5°	1272.5	1274.0	1275.6	1277.2	1278.8	1278.9	1277.5	1276.1	1274.7	1273.3	1273.3
175°	1281.6	1283.2	1284.7	1286.3	1287.9	1288.0	1286.7	1285.3	1284.0	1282.6	1282.6
177.5°	1286.5	1287.7	1289.0	1290.2	1291.5	1291.6	1290.5	1289.4	1288.3	1287.3	1287.3
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1262.8	1261.5	1255.7	1249.0	1240.2	1234.3	1229.7	1227.2	1219.7	1210.4	1204.2
5°	1340.8	1325.1	1308.4	1287.9	1269.1	1249.7	1237.7	1223.5	1206.3	1186.9	1173.3
7.5°	1424.4	1393.6	1360.4	1326.2	1292.3	1262.0	1235.2	1212.2	1184.7	1156.9	1137.5
10°	1488.5	1443.4	1396.8	1349.2	1305.7	1264.9	1233.5	1202.6	1169.6	1137.7	1113.6
12.5°	1546.7	1487.4	1433.7	1375.2	1319.6	1270.8	1225.5	1189.2	1149.5	1115.5	1088.0
15°	1620.4	1559.7	1494.7	1405.7	1331.9	1270.1	1215.2	1167.5	1119.4	1077.5	1050.8
17.5°	1689.3	1597.9	1510.7	1436.4	1340.5	1263.3	1196.2	1139.2	1086.4	1042.0	1009.1
20°	1717.8	1629.3	1534.5	1439.8	1345.5	1259.1	1181.1	1118.3	1063.3	1013.1	982.7
22.5°	1734.9	1634.7	1534.9	1433.1	1333.0	1243.2	1166.1	1096.9	1037.4	989.6	952.1
25°	1754.9	1635.6	1525.6	1425.1	1323.0	1225.6	1134.0	1060.7	996.3	945.5	905.7
27.5°	1768.1	1627.7	1497.8	1386.0	1282.5	1185.5	1101.5	1023.9	958.5	904.8	862.1
30°	1770.6	1621.4	1476.4	1355.5	1250.2	1161.2	1072.2	997.9	928.8	871.7	831.9
32.5°	1774.0	1605.9	1447.5	1319.0	1211.3	1123.1	1042.5	971.5	900.7	844.5	803.9
35°	1760.2	1597.4	1403.6	1256.0	1148.1	1062.8	990.0	924.6	855.0	800.5	759.1
37.5°	1700.7	1563.3	1358.2	1185.0	1072.2	993.2	933.9	876.8	813.0	754.2	715.3
40°	1640.8	1529.8	1323.0	1141.9	1024.1	942.9	889.5	842.9	781.1	726.2	684.3
42.5°	1551.6	1484.2	1289.5	1096.6	969.6	891.4	846.4	802.7	748.5	692.7	653.3
45°	1387.9	1396.8	1220.9	1024.6	894.2	815.7	773.3	742.9	694.8	648.7	608.4
47.5°	1182.7	1265.9	1140.4	947.8	814.7	741.0	704.0	677.5	645.0	599.8	563.0
50°	1048.7	1167.5	1075.9	896.3	764.9	691.6	655.0	633.5	605.2	569.6	534.5
52.5°	925.1	1052.8	998.0	838.9	710.9	643.9	608.1	590.4	567.9	534.4	502.7
55°	754.4	883.8	871.2	752.3	629.8	569.6	542.4	522.5	507.3	482.2	457.1
57.5°	610.3	732.9	739.4	656.0	558.4	498.9	475.5	460.5	450.6	431.6	408.4
60°	519.4	631.9	653.9	591.1	507.3	455.0	431.9	419.9	412.0	396.9	379.1
62.5°	444.0	539.8	564.7	519.5	458.3	409.3	391.3	379.7	374.3	361.2	345.5
65°	339.8	419.4	443.4	418.3	386.4	347.1	332.5	322.5	317.8	310.5	298.9
67.5°	255.5	313.5	339.9	322.2	310.7	285.9	276.5	271.2	267.0	262.0	252.4
70°	205.2	248.2	275.4	270.7	261.3	248.2	241.4	237.7	233.5	229.3	220.9
72.5°	165.0	194.6	220.1	222.5	214.8	212.1	206.2	204.6	202.1	197.1	192.5
75°	109.4	129.8	147.6	154.4	157.6	160.2	157.6	157.1	156.5	152.4	149.7
77.5°	71.7	82.7	93.9	105.5	110.5	114.0	114.9	116.8	115.4	113.2	111.9
80°	55.0	57.6	65.4	75.4	83.2	86.4	88.5	89.5	89.0	88.5	86.4
82.5°	39.9	42.1	45.8	52.8	59.4	64.6	65.9	65.7	66.8	67.1	65.4
85°	21.5	22.0	23.0	24.1	27.7	33.5	35.1	36.1	37.2	37.2	34.0
87.5°	10.4	9.4	9.6	9.1	9.9	9.9	12.0	13.6	14.5	13.2	13.7
90°	18.5	15.5	12.6	10.0	7.8	5.5	3.3	1.0	3.3	5.5	7.8
92.5°	35.6	33.9	32.2	30.6	29.1	27.6	26.0	24.5	26.0	27.6	29.1
95°	71.4	69.6	67.8	66.1	64.5	62.9	61.3	59.8	61.3	62.9	64.5
97.5°	114.7	113.4	112.1	110.9	109.7	108.5	107.3	106.2	107.3	108.5	109.7
100°	146.7	145.6	144.4	143.2	141.8	140.5	139.1	137.8	139.1	140.5	141.8
102.5°	181.6	180.1	178.6	177.5	176.7	175.9	175.1	174.3	175.1	175.9	176.7
105°	235.0	233.0	231.0	229.8	229.3	228.9	228.4	228.0	228.4	228.9	229.3
107.5°	293.6	292.8	292.0	291.4	291.2	290.9	290.6	290.4	290.6	290.9	291.2
110°	332.4	332.0	331.5	331.1	330.6	330.2	329.7	329.3	329.7	330.2	330.6



TEST NUMBER: P332439

CATALOG NUMBER: S123RDIW-S775D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	371.2	371.1	371.0	370.9	370.6	370.3	370.1	369.8	370.1	370.3	370.6
115°	432.5	432.9	433.4	433.3	432.6	431.9	431.2	430.6	431.2	431.9	432.6
117.5°	492.3	492.9	493.5	493.6	493.1	492.7	492.2	491.8	492.2	492.7	493.1
120°	533.1	534.2	535.4	535.3	533.9	532.6	531.2	529.9	531.2	532.6	533.9
122.5°	572.6	573.2	573.7	573.5	572.5	571.6	570.6	569.6	570.6	571.6	572.5
125°	632.1	632.5	633.0	632.9	632.2	631.5	630.8	630.2	630.8	631.5	632.2
127.5°	691.3	691.8	692.3	691.8	690.4	689.0	687.5	686.1	687.5	689.0	690.4
130°	729.8	730.5	731.1	730.6	728.8	727.0	725.2	723.4	725.2	727.0	728.8
132.5°	767.5	768.0	768.5	767.9	766.1	764.2	762.4	760.6	762.4	764.2	766.1
135°	823.1	823.3	823.5	823.0	821.6	820.3	818.9	817.6	818.9	820.3	821.6
137.5°	876.8	876.2	875.6	874.8	873.6	872.5	871.4	870.3	871.4	872.5	873.6
140°	912.4	912.1	911.9	911.2	910.1	909.0	907.9	906.7	907.9	909.0	910.1
142.5°	946.0	945.6	945.2	944.5	943.3	942.2	941.1	940.0	941.1	942.2	943.3
145°	995.6	994.9	994.2	993.6	993.2	992.7	992.3	991.8	992.3	992.7	993.2
147.5°	1042.5	1041.8	1041.2	1040.5	1039.7	1038.8	1038.0	1037.2	1038.0	1038.8	1039.7
150°	1072.0	1071.5	1071.1	1070.6	1070.2	1069.7	1069.3	1068.8	1069.3	1069.7	1070.2
152.5°	1098.3	1098.0	1097.7	1097.3	1096.7	1096.0	1095.4	1094.8	1095.4	1096.0	1096.7
155°	1136.3	1136.0	1135.8	1135.7	1135.7	1135.7	1135.7	1135.7	1135.7	1135.7	1135.7
157.5°	1169.8	1169.6	1169.4	1169.5	1169.7	1170.0	1170.3	1170.6	1170.3	1170.0	1169.7
160°	1190.4	1190.4	1190.4	1190.6	1191.1	1191.5	1192.0	1192.4	1192.0	1191.5	1191.1
162.5°	1209.5	1209.3	1209.1	1209.4	1210.0	1210.6	1211.3	1211.9	1211.3	1210.6	1210.0
165°	1234.0	1234.0	1234.0	1234.3	1235.0	1235.7	1236.3	1237.0	1236.3	1235.7	1235.0
167.5°	1253.5	1253.3	1253.1	1253.5	1254.4	1255.3	1256.2	1257.1	1256.2	1255.3	1254.4
170°	1264.4	1264.4	1264.4	1264.8	1265.7	1266.6	1267.5	1268.4	1267.5	1266.6	1265.7
172.5°	1273.3	1273.3	1273.3	1273.7	1274.6	1275.5	1276.4	1277.3	1276.4	1275.5	1274.6
175°	1282.6	1282.6	1282.6	1283.1	1284.0	1284.9	1285.8	1286.7	1285.8	1284.9	1284.0
177.5°	1287.3	1287.3	1287.3	1287.6	1288.3	1289.1	1289.8	1290.5	1289.8	1289.1	1288.3
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7



TEST NUMBER: P332439

CATALOG NUMBER: S123RDIW-S775D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1202.1	1196.6	1192.9	1184.5	1179.0	1173.2	1167.3	1171.1	1170.7	1170.2	1170.2
5°	1161.8	1149.7	1138.7	1124.6	1115.7	1104.7	1096.3	1095.3	1097.4	1090.0	1085.8
7.5°	1121.8	1105.3	1089.7	1074.1	1057.6	1044.4	1036.1	1032.2	1026.9	1022.4	1017.7
10°	1093.7	1074.3	1059.1	1039.8	1022.0	1006.3	996.3	989.5	985.8	982.2	975.4
12.5°	1064.8	1045.8	1026.5	1004.6	987.6	969.4	962.0	954.3	947.3	943.2	933.9
15°	1022.5	997.9	977.5	954.4	935.6	917.8	907.3	892.1	890.0	884.8	875.4
17.5°	980.1	953.4	925.2	908.2	886.9	868.4	852.4	847.3	832.3	826.7	818.5
20°	946.6	922.0	900.5	878.0	847.1	829.8	817.3	810.5	798.4	791.1	785.8
22.5°	917.7	892.7	867.8	841.6	816.1	796.7	787.5	776.9	770.4	760.1	754.4
25°	876.4	849.2	819.4	791.1	772.8	758.1	743.4	734.0	724.6	719.9	709.4
27.5°	828.5	800.0	772.1	750.7	728.2	713.7	700.4	692.0	680.7	672.8	667.0
30°	802.1	768.6	744.5	725.1	696.3	682.7	672.8	662.3	653.9	645.5	639.8
32.5°	771.5	740.9	718.1	694.1	672.0	657.2	644.3	635.1	627.9	620.0	614.2
35°	723.5	697.9	674.3	650.2	634.0	618.8	603.7	595.8	589.0	581.7	576.4
37.5°	680.2	656.2	633.8	611.0	590.9	578.5	566.3	560.3	551.1	546.2	540.8
40°	653.4	629.8	605.7	583.8	562.8	553.4	542.4	533.5	525.1	521.5	515.7
42.5°	624.1	600.5	580.2	556.5	539.4	526.6	516.4	506.7	500.4	495.1	491.8
45°	580.6	559.7	539.8	516.2	500.0	489.0	477.5	468.6	462.8	459.2	453.4
47.5°	538.4	517.5	497.3	476.7	461.0	448.5	437.0	430.8	423.1	418.6	414.8
50°	507.8	489.0	467.5	448.7	433.0	420.4	411.0	403.1	396.3	390.6	388.0
52.5°	479.8	459.7	441.1	423.6	407.0	392.8	384.2	375.9	370.8	364.2	361.1
55°	433.5	414.1	398.4	381.1	364.9	352.9	342.4	335.1	329.8	322.5	318.3
57.5°	390.0	372.7	353.9	338.9	322.2	312.0	303.3	293.4	287.0	281.3	277.2
60°	360.7	340.8	324.6	310.5	295.8	282.7	274.9	267.0	260.2	254.4	250.8
62.5°	330.2	312.8	297.4	282.0	268.6	257.2	248.1	241.5	235.5	231.8	228.2
65°	283.2	269.6	253.9	241.4	228.8	220.4	213.1	207.3	203.1	200.5	197.4
67.5°	240.1	226.9	213.2	200.8	192.5	186.1	181.3	176.3	174.2	170.9	168.8
70°	212.0	198.4	186.4	177.0	168.6	163.9	160.7	157.1	155.0	150.8	148.7
72.5°	181.5	171.6	162.9	155.2	148.5	144.2	140.2	135.7	132.4	127.7	125.7
75°	142.9	134.0	127.2	122.0	117.8	112.0	106.3	101.6	100.0	98.4	97.9
77.5°	105.9	100.2	95.3	90.9	85.7	81.5	80.2	79.2	78.8	78.0	78.0
80°	83.2	78.0	74.3	69.1	66.0	66.0	66.0	64.9	65.4	65.4	65.4
82.5°	61.9	57.1	55.1	53.2	52.6	53.0	53.0	53.2	52.9	53.7	53.3
85°	31.9	32.5	33.5	33.0	33.5	33.5	34.6	34.0	34.6	33.5	34.6
87.5°	13.7	15.5	16.5	17.5	18.5	18.7	19.3	19.5	20.1	20.2	20.4
90°	10.0	12.6	15.5	18.5	21.4	24.3	25.2	26.1	27.0	27.9	28.6
92.5°	30.6	32.2	33.9	35.6	37.2	38.9	39.6	40.3	41.1	41.8	42.0
95°	66.1	67.8	69.6	71.4	73.2	75.0	75.9	76.8	77.7	78.6	79.0
97.5°	110.9	112.1	113.4	114.7	116.0	117.3	118.4	119.4	120.4	121.5	121.9
100°	143.2	144.4	145.6	146.7	147.8	148.9	149.6	150.3	151.0	151.6	152.2
102.5°	177.5	178.6	180.1	181.6	183.1	184.6	185.3	185.9	186.6	187.3	187.6
105°	229.8	231.0	233.0	235.0	237.1	239.1	239.1	239.1	239.1	239.1	239.3
107.5°	291.4	292.0	292.8	293.6	294.4	295.2	295.9	296.7	297.4	298.1	298.3
110°	331.1	331.5	332.0	332.4	332.9	333.3	334.2	335.1	336.0	336.9	337.1



TEST NUMBER: P332439

CATALOG NUMBER: S123RDIW-S775D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	370.9	371.0	371.1	371.2	371.3	371.4	372.5	373.6	374.6	375.7	376.2
115°	433.3	433.4	432.9	432.5	432.0	431.6	431.8	432.0	432.3	432.5	432.5
117.5°	493.6	493.5	492.9	492.3	491.7	491.2	491.1	491.1	491.0	491.0	490.6
120°	535.3	535.4	534.2	533.1	532.0	530.9	530.6	530.4	530.2	530.0	529.6
122.5°	573.5	573.7	573.2	572.6	572.0	571.4	570.8	570.2	569.6	569.1	568.4
125°	632.9	633.0	632.5	632.1	631.6	631.2	630.3	629.4	628.5	627.6	626.7
127.5°	691.8	692.3	691.8	691.3	690.8	690.3	689.1	687.8	686.6	685.3	684.1
130°	730.6	731.1	730.5	729.8	729.1	728.4	727.5	726.6	725.7	724.8	723.6
132.5°	767.9	768.5	768.0	767.5	767.0	766.5	765.4	764.4	763.3	762.2	761.1
135°	823.0	823.5	823.3	823.1	822.9	822.6	821.7	820.8	819.9	819.0	818.4
137.5°	874.8	875.6	876.2	876.8	877.4	878.0	877.0	876.1	875.1	874.2	873.3
140°	911.2	911.9	912.1	912.4	912.6	912.8	912.6	912.4	912.1	911.9	911.0
142.5°	944.5	945.2	945.6	946.0	946.5	946.9	946.6	946.4	946.2	946.0	945.2
145°	993.6	994.2	994.9	995.6	996.2	996.9	996.7	996.5	996.2	996.0	995.4
147.5°	1040.5	1041.2	1041.8	1042.5	1043.1	1043.7	1043.7	1043.7	1043.7	1043.7	1043.0
150°	1070.6	1071.1	1071.5	1072.0	1072.4	1072.9	1072.9	1072.9	1072.9	1072.9	1072.2
152.5°	1097.3	1097.7	1098.0	1098.3	1098.6	1098.8	1099.2	1099.5	1099.9	1100.3	1099.9
155°	1135.7	1135.8	1136.0	1136.3	1136.5	1136.7	1137.6	1138.5	1139.4	1140.3	1140.0
157.5°	1169.5	1169.4	1169.6	1169.8	1170.0	1170.1	1171.1	1172.0	1173.0	1173.9	1173.8
160°	1190.6	1190.4	1190.4	1190.4	1190.4	1190.4	1191.5	1192.7	1193.8	1194.9	1195.0
162.5°	1209.4	1209.1	1209.3	1209.5	1209.7	1209.9	1211.0	1212.1	1213.2	1214.4	1214.2
165°	1234.3	1234.0	1234.0	1234.0	1234.0	1234.0	1235.3	1236.7	1238.0	1239.4	1239.3
167.5°	1253.5	1253.1	1253.3	1253.5	1253.7	1253.8	1255.2	1256.6	1258.0	1259.4	1259.4
170°	1264.8	1264.4	1264.4	1264.4	1264.4	1264.4	1265.9	1267.5	1269.1	1270.7	1270.7
172.5°	1273.7	1273.3	1273.3	1273.3	1273.3	1273.3	1274.7	1276.1	1277.5	1278.9	1278.8
175°	1283.1	1282.6	1282.6	1282.6	1282.6	1282.6	1284.0	1285.3	1286.7	1288.0	1287.9
177.5°	1287.6	1287.3	1287.3	1287.3	1287.3	1287.3	1288.3	1289.4	1290.5	1291.6	1291.5
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7



TEST NUMBER: P332439

CATALOG NUMBER: S123RDIW-S775D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1165.2	1164.8	1165.2	1163.5	1165.2	1164.8	1165.2	1170.2	1170.2	1170.7	1171.1
5°	1084.3	1083.7	1082.2	1077.5	1082.2	1083.7	1084.3	1085.8	1090.0	1097.4	1095.3
7.5°	1013.6	1012.9	1008.3	1008.4	1008.3	1012.9	1013.6	1017.7	1022.4	1026.9	1032.2
10°	971.7	972.2	966.0	962.3	966.0	972.2	971.7	975.4	982.2	985.8	989.5
12.5°	931.1	928.7	923.6	919.6	923.6	928.7	931.1	933.9	943.2	947.3	954.3
15°	877.5	872.2	859.7	860.7	859.7	872.2	877.5	875.4	884.8	890.0	892.1
17.5°	814.3	810.5	810.2	802.9	810.2	810.5	814.3	818.5	826.7	832.3	847.3
20°	777.5	774.9	775.9	768.6	775.9	774.9	777.5	785.8	791.1	798.4	810.5
22.5°	748.6	746.0	741.6	739.3	741.6	746.0	748.6	754.4	760.1	770.4	776.9
25°	706.3	702.1	697.9	700.5	697.9	702.1	706.3	709.4	719.9	724.6	734.0
27.5°	664.0	660.8	656.6	656.1	656.6	660.8	664.0	667.0	672.8	680.7	692.0
30°	637.2	634.0	631.9	629.3	631.9	634.0	637.2	639.8	645.5	653.9	662.3
32.5°	609.9	609.3	605.5	605.0	605.5	609.3	609.9	614.2	620.0	627.9	635.1
35°	574.3	571.2	570.1	570.7	570.1	571.2	574.3	576.4	581.7	589.0	595.8
37.5°	540.5	536.3	534.4	532.6	534.4	536.3	540.5	540.8	546.2	551.1	560.3
40°	516.2	512.0	511.0	509.9	511.0	512.0	516.2	515.7	521.5	525.1	533.5
42.5°	489.0	487.3	486.7	484.8	486.7	487.3	489.0	491.8	495.1	500.4	506.7
45°	451.8	451.3	448.2	449.2	448.2	451.3	451.8	453.4	459.2	462.8	468.6
47.5°	412.7	410.4	408.2	409.6	408.2	410.4	412.7	414.8	418.6	423.1	430.8
50°	385.9	384.8	380.1	381.1	380.1	384.8	385.9	388.0	390.6	396.3	403.1
52.5°	359.1	355.1	353.3	352.7	353.3	355.1	359.1	361.1	364.2	370.8	375.9
55°	314.7	309.9	307.8	306.8	307.8	309.9	314.7	318.3	322.5	329.8	335.1
57.5°	271.1	269.8	268.2	269.3	268.2	269.8	271.1	277.2	281.3	287.0	293.4
60°	245.5	245.5	245.5	245.0	245.5	245.5	245.5	250.8	254.4	260.2	267.0
62.5°	225.9	224.6	224.2	224.9	224.2	224.6	225.9	228.2	231.8	235.5	241.5
65°	195.8	195.3	193.2	192.7	193.2	195.3	195.8	197.4	200.5	203.1	207.3
67.5°	167.4	165.5	164.9	164.2	164.9	165.5	167.4	168.8	170.9	174.2	176.3
70°	146.1	145.0	141.9	142.4	141.9	145.0	146.1	148.7	150.8	155.0	157.1
72.5°	123.0	122.0	121.4	120.6	121.4	122.0	123.0	125.7	127.7	132.4	135.7
75°	97.4	96.9	96.3	98.4	96.3	96.9	97.4	97.9	98.4	100.0	101.6
77.5°	78.0	78.0	78.3	77.5	78.3	78.0	78.0	78.0	78.0	78.8	79.2
80°	65.4	65.4	64.9	64.9	64.9	65.4	65.4	65.4	65.4	65.4	64.9
82.5°	52.5	52.9	53.2	52.4	53.2	52.9	52.5	53.3	53.7	52.9	53.2
85°	34.6	34.0	35.1	34.6	35.1	34.0	34.6	34.6	33.5	34.6	34.0
87.5°	21.3	20.6	20.6	21.2	20.6	20.6	21.3	20.4	20.2	20.1	19.5
90°	29.0	29.5	29.9	30.4	29.9	29.5	29.0	28.6	27.9	27.0	26.1
92.5°	41.7	41.5	41.2	40.9	41.2	41.5	41.7	42.0	41.8	41.1	40.3
95°	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	78.6	77.7	76.8
97.5°	121.8	121.8	121.7	121.6	121.7	121.8	121.8	121.9	121.5	120.4	119.4
100°	152.6	153.1	153.5	154.0	153.5	153.1	152.6	152.2	151.6	151.0	150.3
102.5°	187.5	187.4	187.3	187.2	187.3	187.4	187.5	187.6	187.3	186.6	185.9
105°	239.8	240.2	240.7	241.1	240.7	240.2	239.8	239.3	239.1	239.1	239.1
107.5°	298.1	297.8	297.5	297.2	297.5	297.8	298.1	298.3	298.1	297.4	296.7
110°	336.7	336.2	335.8	335.3	335.8	336.2	336.7	337.1	336.9	336.0	335.1



TEST NUMBER: P332439

CATALOG NUMBER: S123RDIW-S775D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	376.1	376.0	376.0	375.9	376.0	376.0	376.1	376.2	375.7	374.6	373.6
115°	432.3	432.0	431.8	431.6	431.8	432.0	432.3	432.5	432.5	432.3	432.0
117.5°	490.0	489.4	488.7	488.1	488.7	489.4	490.0	490.6	491.0	491.0	491.1
120°	529.2	528.7	528.3	527.8	528.3	528.7	529.2	529.6	530.0	530.2	530.4
122.5°	567.8	567.2	566.6	565.9	566.6	567.2	567.8	568.4	569.1	569.6	570.2
125°	625.8	624.9	624.0	623.1	624.0	624.9	625.8	626.7	627.6	628.5	629.4
127.5°	683.1	682.1	681.0	680.0	681.0	682.1	683.1	684.1	685.3	686.6	687.8
130°	722.0	720.4	718.9	717.3	718.9	720.4	722.0	723.6	724.8	725.7	726.6
132.5°	759.8	758.6	757.4	756.2	757.4	758.6	759.8	761.1	762.2	763.3	764.4
135°	817.9	817.5	817.0	816.6	817.0	817.5	817.9	818.4	819.0	819.9	820.8
137.5°	872.4	871.6	870.7	869.9	870.7	871.6	872.4	873.3	874.2	875.1	876.1
140°	909.4	907.9	906.3	904.7	906.3	907.9	909.4	911.0	911.9	912.1	912.4
142.5°	944.0	942.8	941.6	940.4	941.6	942.8	944.0	945.2	946.0	946.2	946.4
145°	994.5	993.6	992.7	991.8	992.7	993.6	994.5	995.4	996.0	996.2	996.5
147.5°	1041.7	1040.3	1039.0	1037.6	1039.0	1040.3	1041.7	1043.0	1043.7	1043.7	1043.7
150°	1070.9	1069.5	1068.2	1066.8	1068.2	1069.5	1070.9	1072.2	1072.9	1072.9	1072.9
152.5°	1098.7	1097.5	1096.3	1095.2	1096.3	1097.5	1098.7	1099.9	1100.3	1099.9	1099.5
155°	1138.4	1136.8	1135.3	1133.7	1135.3	1136.8	1138.4	1140.0	1140.3	1139.4	1138.5
157.5°	1172.5	1171.3	1170.0	1168.7	1170.0	1171.3	1172.5	1173.8	1173.9	1173.0	1172.0
160°	1194.1	1193.2	1192.3	1191.4	1192.3	1193.2	1194.1	1195.0	1194.9	1193.8	1192.7
162.5°	1212.8	1211.3	1209.9	1208.4	1209.9	1211.3	1212.8	1214.2	1214.4	1213.2	1212.1
165°	1237.7	1236.1	1234.5	1233.0	1234.5	1236.1	1237.7	1239.3	1239.4	1238.0	1236.7
167.5°	1258.0	1256.6	1255.2	1253.8	1255.2	1256.6	1258.0	1259.4	1259.4	1258.0	1256.6
170°	1269.1	1267.5	1265.9	1264.4	1265.9	1267.5	1269.1	1270.7	1270.7	1269.1	1267.5
172.5°	1277.2	1275.6	1274.0	1272.5	1274.0	1275.6	1277.2	1278.8	1278.9	1277.5	1276.1
175°	1286.3	1284.7	1283.2	1281.6	1283.2	1284.7	1286.3	1287.9	1288.0	1286.7	1285.3
177.5°	1290.2	1289.0	1287.7	1286.5	1287.7	1289.0	1290.2	1291.5	1291.6	1290.5	1289.4
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7



TEST NUMBER: P332439

CATALOG NUMBER: S123RDIW-S775D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1167.3	1173.2	1179.0	1184.5	1192.9	1196.6	1202.1	1204.2	1210.4	1219.7	1227.2
5°	1096.3	1104.7	1115.7	1124.6	1138.7	1149.7	1161.8	1173.3	1186.9	1206.3	1223.5
7.5°	1036.1	1044.4	1057.6	1074.1	1089.7	1105.3	1121.8	1137.5	1156.9	1184.7	1212.2
10°	996.3	1006.3	1022.0	1039.8	1059.1	1074.3	1093.7	1113.6	1137.7	1169.6	1202.6
12.5°	962.0	969.4	987.6	1004.6	1026.5	1045.8	1064.8	1088.0	1115.5	1149.5	1189.2
15°	907.3	917.8	935.6	954.4	977.5	997.9	1022.5	1050.8	1077.5	1119.4	1167.5
17.5°	852.4	868.4	886.9	908.2	925.2	953.4	980.1	1009.1	1042.0	1086.4	1139.2
20°	817.3	829.8	847.1	878.0	900.5	922.0	946.6	982.7	1013.1	1063.3	1118.3
22.5°	787.5	796.7	816.1	841.6	867.8	892.7	917.7	952.1	989.6	1037.4	1096.9
25°	743.4	758.1	772.8	791.1	819.4	849.2	876.4	905.7	945.5	996.3	1060.7
27.5°	700.4	713.7	728.2	750.7	772.1	800.0	828.5	862.1	904.8	958.5	1023.9
30°	672.8	682.7	696.3	725.1	744.5	768.6	802.1	831.9	871.7	928.8	997.9
32.5°	644.3	657.2	672.0	694.1	718.1	740.9	771.5	803.9	844.5	900.7	971.5
35°	603.7	618.8	634.0	650.2	674.3	697.9	723.5	759.1	800.5	855.0	924.6
37.5°	566.3	578.5	590.9	611.0	633.8	656.2	680.2	715.3	754.2	813.0	876.8
40°	542.4	553.4	562.8	583.8	605.7	629.8	653.4	684.3	726.2	781.1	842.9
42.5°	516.4	526.6	539.4	556.5	580.2	600.5	624.1	653.3	692.7	748.5	802.7
45°	477.5	489.0	500.0	516.2	539.8	559.7	580.6	608.4	648.7	694.8	742.9
47.5°	437.0	448.5	461.0	476.7	497.3	517.5	538.4	563.0	599.8	645.0	677.5
50°	411.0	420.4	433.0	448.7	467.5	489.0	507.8	534.5	569.6	605.2	633.5
52.5°	384.2	392.8	407.0	423.6	441.1	459.7	479.8	502.7	534.4	567.9	590.4
55°	342.4	352.9	364.9	381.1	398.4	414.1	433.5	457.1	482.2	507.3	522.5
57.5°	303.3	312.0	322.2	338.9	353.9	372.7	390.0	408.4	431.6	450.6	460.5
60°	274.9	282.7	295.8	310.5	324.6	340.8	360.7	379.1	396.9	412.0	419.9
62.5°	248.1	257.2	268.6	282.0	297.4	312.8	330.2	345.5	361.2	374.3	379.7
65°	213.1	220.4	228.8	241.4	253.9	269.6	283.2	298.9	310.5	317.8	322.5
67.5°	181.3	186.1	192.5	200.8	213.2	226.9	240.1	252.4	262.0	267.0	271.2
70°	160.7	163.9	168.6	177.0	186.4	198.4	212.0	220.9	229.3	233.5	237.7
72.5°	140.2	144.2	148.5	155.2	162.9	171.6	181.5	192.5	197.1	202.1	204.6
75°	106.3	112.0	117.8	122.0	127.2	134.0	142.9	149.7	152.4	156.5	157.1
77.5°	80.2	81.5	85.7	90.9	95.3	100.2	105.9	111.9	113.2	115.4	116.8
80°	66.0	66.0	66.0	69.1	74.3	78.0	83.2	86.4	88.5	89.0	89.5
82.5°	53.0	53.0	52.6	53.2	55.1	57.1	61.9	65.4	67.1	66.8	65.7
85°	34.6	33.5	33.5	33.0	33.5	32.5	31.9	34.0	37.2	37.2	36.1
87.5°	19.3	18.7	18.5	17.5	16.5	15.5	13.7	13.7	13.2	14.5	13.6
90°	25.2	24.3	21.4	18.5	15.5	12.6	10.0	7.8	5.5	3.3	1.0
92.5°	39.6	38.9	37.2	35.6	33.9	32.2	30.6	29.1	27.6	26.0	24.5
95°	75.9	75.0	73.2	71.4	69.6	67.8	66.1	64.5	62.9	61.3	59.8
97.5°	118.4	117.3	116.0	114.7	113.4	112.1	110.9	109.7	108.5	107.3	106.2
100°	149.6	148.9	147.8	146.7	145.6	144.4	143.2	141.8	140.5	139.1	137.8
102.5°	185.3	184.6	183.1	181.6	180.1	178.6	177.5	176.7	175.9	175.1	174.3
105°	239.1	239.1	237.1	235.0	233.0	231.0	229.8	229.3	228.9	228.4	228.0
107.5°	295.9	295.2	294.4	293.6	292.8	292.0	291.4	291.2	290.9	290.6	290.4
110°	334.2	333.3	332.9	332.4	332.0	331.5	331.1	330.6	330.2	329.7	329.3



TEST NUMBER: P332439

CATALOG NUMBER: S123RDIW-S775D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	372.5	371.4	371.3	371.2	371.1	371.0	370.9	370.6	370.3	370.1	369.8
115°	431.8	431.6	432.0	432.5	432.9	433.4	433.3	432.6	431.9	431.2	430.6
117.5°	491.1	491.2	491.7	492.3	492.9	493.5	493.6	493.1	492.7	492.2	491.8
120°	530.6	530.9	532.0	533.1	534.2	535.4	535.3	533.9	532.6	531.2	529.9
122.5°	570.8	571.4	572.0	572.6	573.2	573.7	573.5	572.5	571.6	570.6	569.6
125°	630.3	631.2	631.6	632.1	632.5	633.0	632.9	632.2	631.5	630.8	630.2
127.5°	689.1	690.3	690.8	691.3	691.8	692.3	691.8	690.4	689.0	687.5	686.1
130°	727.5	728.4	729.1	729.8	730.5	731.1	730.6	728.8	727.0	725.2	723.4
132.5°	765.4	766.5	767.0	767.5	768.0	768.5	767.9	766.1	764.2	762.4	760.6
135°	821.7	822.6	822.9	823.1	823.3	823.5	823.0	821.6	820.3	818.9	817.6
137.5°	877.0	878.0	877.4	876.8	876.2	875.6	874.8	873.6	872.5	871.4	870.3
140°	912.6	912.8	912.6	912.4	912.1	911.9	911.2	910.1	909.0	907.9	906.7
142.5°	946.6	946.9	946.5	946.0	945.6	945.2	944.5	943.3	942.2	941.1	940.0
145°	996.7	996.9	996.2	995.6	994.9	994.2	993.6	993.2	992.7	992.3	991.8
147.5°	1043.7	1043.7	1043.1	1042.5	1041.8	1041.2	1040.5	1039.7	1038.8	1038.0	1037.2
150°	1072.9	1072.9	1072.4	1072.0	1071.5	1071.1	1070.6	1070.2	1069.7	1069.3	1068.8
152.5°	1099.2	1098.8	1098.6	1098.3	1098.0	1097.7	1097.3	1096.7	1096.0	1095.4	1094.8
155°	1137.6	1136.7	1136.5	1136.3	1136.0	1135.8	1135.7	1135.7	1135.7	1135.7	1135.7
157.5°	1171.1	1170.1	1170.0	1169.8	1169.6	1169.4	1169.5	1169.7	1170.0	1170.3	1170.6
160°	1191.5	1190.4	1190.4	1190.4	1190.4	1190.4	1190.6	1191.1	1191.5	1192.0	1192.4
162.5°	1211.0	1209.9	1209.7	1209.5	1209.3	1209.1	1209.4	1210.0	1210.6	1211.3	1211.9
165°	1235.3	1234.0	1234.0	1234.0	1234.0	1234.0	1234.3	1235.0	1235.7	1236.3	1237.0
167.5°	1255.2	1253.8	1253.7	1253.5	1253.3	1253.1	1253.5	1254.4	1255.3	1256.2	1257.1
170°	1265.9	1264.4	1264.4	1264.4	1264.4	1264.4	1264.8	1265.7	1266.6	1267.5	1268.4
172.5°	1274.7	1273.3	1273.3	1273.3	1273.3	1273.3	1273.7	1274.6	1275.5	1276.4	1277.3
175°	1284.0	1282.6	1282.6	1282.6	1282.6	1282.6	1283.1	1284.0	1284.9	1285.8	1286.7
177.5°	1288.3	1287.3	1287.3	1287.3	1287.3	1287.3	1287.6	1288.3	1289.1	1289.8	1290.5
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7



TEST NUMBER: P332439

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1229.7	1234.3	1240.2	1249.0	1255.7	1261.5	1262.8	1264.5	1268.7	1275.8	1281.2
5°	1237.7	1249.7	1269.1	1287.9	1308.4	1325.1	1340.8	1351.8	1362.3	1384.3	1402.1
7.5°	1235.2	1262.0	1292.3	1326.2	1360.4	1393.6	1424.4	1451.9	1479.3	1511.4	1547.9
10°	1233.5	1264.9	1305.7	1349.2	1396.8	1443.4	1488.5	1523.5	1564.4	1601.0	1647.6
12.5°	1225.5	1270.8	1319.6	1375.2	1433.7	1487.4	1546.7	1595.2	1641.9	1694.8	1749.0
15°	1215.2	1270.1	1331.9	1405.7	1494.7	1559.7	1620.4	1704.7	1762.3	1819.9	1897.3
17.5°	1196.2	1263.3	1340.5	1436.4	1510.7	1597.9	1689.3	1755.9	1833.5	1914.6	1984.8
20°	1181.1	1259.1	1345.5	1439.8	1534.5	1629.3	1717.8	1797.3	1877.5	1971.2	2028.8
22.5°	1166.1	1243.2	1333.0	1433.1	1534.9	1634.7	1734.9	1828.3	1918.5	2013.1	2086.6
25°	1134.0	1225.6	1323.0	1425.1	1525.6	1635.6	1754.9	1859.1	1970.6	2068.0	2137.7
27.5°	1101.5	1185.5	1282.5	1386.0	1497.8	1627.7	1768.1	1886.6	1998.3	2068.0	2089.9
30°	1072.2	1161.2	1250.2	1355.5	1476.4	1621.4	1770.6	1906.2	1997.9	2028.2	2005.7
32.5°	1042.5	1123.1	1211.3	1319.0	1447.5	1605.9	1774.0	1894.5	1949.7	1926.5	1834.8
35°	990.0	1062.8	1148.1	1256.0	1403.6	1597.4	1760.2	1841.8	1828.2	1697.3	1524.6
37.5°	933.9	993.2	1072.2	1185.0	1358.2	1563.3	1700.7	1712.7	1594.9	1394.0	1194.4
40°	889.5	942.9	1024.1	1141.9	1323.0	1529.8	1640.8	1592.1	1409.4	1185.8	1019.4
42.5°	846.4	891.4	969.6	1096.6	1289.5	1484.2	1551.6	1445.5	1234.7	1023.3	871.9
45°	773.3	815.7	894.2	1024.6	1220.9	1396.8	1387.9	1203.6	992.7	822.5	696.8
47.5°	704.0	741.0	814.7	947.8	1140.4	1265.9	1182.7	986.6	807.6	671.1	581.5
50°	655.0	691.6	764.9	896.3	1075.9	1167.5	1048.7	859.7	695.8	582.7	511.5
52.5°	608.1	643.9	710.9	838.9	998.0	1052.8	925.1	749.9	613.3	515.7	454.5
55°	542.4	569.6	629.8	752.3	871.2	883.8	754.4	607.8	495.3	427.2	385.3
57.5°	475.5	498.9	558.4	656.0	739.4	732.9	610.3	483.4	407.6	357.1	326.7
60°	431.9	455.0	507.3	591.1	653.9	631.9	519.4	417.3	352.3	315.2	291.1
62.5°	391.3	409.3	458.3	519.5	564.7	539.8	444.0	359.5	308.0	276.6	257.6
65°	332.5	347.1	386.4	418.3	443.4	419.4	339.8	281.1	244.0	222.0	208.9
67.5°	276.5	285.9	310.7	322.2	339.9	313.5	255.5	216.2	195.1	176.5	167.4
70°	241.4	248.2	261.3	270.7	275.4	248.2	205.2	176.4	158.6	145.5	139.8
72.5°	206.2	212.1	214.8	222.5	220.1	194.6	165.0	142.1	129.3	120.4	113.0
75°	157.6	160.2	157.6	154.4	147.6	129.8	109.4	97.9	88.5	84.3	81.7
77.5°	114.9	114.0	110.5	105.5	93.9	82.7	71.7	67.9	63.8	61.6	60.6
80°	88.5	86.4	83.2	75.4	65.4	57.6	55.0	52.4	50.8	48.2	47.6
82.5°	65.9	64.6	59.4	52.8	45.8	42.1	39.9	39.0	37.4	36.0	35.9
85°	35.1	33.5	27.7	24.1	23.0	22.0	21.5	21.5	19.4	18.8	18.8
87.5°	12.0	9.9	9.9	9.1	9.6	9.4	10.4	10.1	10.3	10.9	10.2
90°	3.3	5.5	7.8	10.0	12.6	15.5	18.5	21.4	24.3	25.2	26.1
92.5°	26.0	27.6	29.1	30.6	32.2	33.9	35.6	37.2	38.9	39.6	40.3
95°	61.3	62.9	64.5	66.1	67.8	69.6	71.4	73.2	75.0	75.9	76.8
97.5°	107.3	108.5	109.7	110.9	112.1	113.4	114.7	116.0	117.3	118.4	119.4
100°	139.1	140.5	141.8	143.2	144.4	145.6	146.7	147.8	148.9	149.6	150.3
102.5°	175.1	175.9	176.7	177.5	178.6	180.1	181.6	183.1	184.6	185.3	185.9
105°	228.4	228.9	229.3	229.8	231.0	233.0	235.0	237.1	239.1	239.1	239.1
107.5°	290.6	290.9	291.2	291.4	292.0	292.8	293.6	294.4	295.2	295.9	296.7
110°	329.7	330.2	330.6	331.1	331.5	332.0	332.4	332.9	333.3	334.2	335.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	370.1	370.3	370.6	370.9	371.0	371.1	371.2	371.3	371.4	372.5	373.6
115°	431.2	431.9	432.6	433.3	433.4	432.9	432.5	432.0	431.6	431.8	432.0
117.5°	492.2	492.7	493.1	493.6	493.5	492.9	492.3	491.7	491.2	491.1	491.1
120°	531.2	532.6	533.9	535.3	535.4	534.2	533.1	532.0	530.9	530.6	530.4
122.5°	570.6	571.6	572.5	573.5	573.7	573.2	572.6	572.0	571.4	570.8	570.2
125°	630.8	631.5	632.2	632.9	633.0	632.5	632.1	631.6	631.2	630.3	629.4
127.5°	687.5	689.0	690.4	691.8	692.3	691.8	691.3	690.8	690.3	689.1	687.8
130°	725.2	727.0	728.8	730.6	731.1	730.5	729.8	729.1	728.4	727.5	726.6
132.5°	762.4	764.2	766.1	767.9	768.5	768.0	767.5	767.0	766.5	765.4	764.4
135°	818.9	820.3	821.6	823.0	823.5	823.3	823.1	822.9	822.6	821.7	820.8
137.5°	871.4	872.5	873.6	874.8	875.6	876.2	876.8	877.4	878.0	877.0	876.1
140°	907.9	909.0	910.1	911.2	911.9	912.1	912.4	912.6	912.8	912.6	912.4
142.5°	941.1	942.2	943.3	944.5	945.2	945.6	946.0	946.5	946.9	946.6	946.4
145°	992.3	992.7	993.2	993.6	994.2	994.9	995.6	996.2	996.9	996.7	996.5
147.5°	1038.0	1038.8	1039.7	1040.5	1041.2	1041.8	1042.5	1043.1	1043.7	1043.7	1043.7
150°	1069.3	1069.7	1070.2	1070.6	1071.1	1071.5	1072.0	1072.4	1072.9	1072.9	1072.9
152.5°	1095.4	1096.0	1096.7	1097.3	1097.7	1098.0	1098.3	1098.6	1098.8	1099.2	1099.5
155°	1135.7	1135.7	1135.7	1135.7	1135.8	1136.0	1136.3	1136.5	1136.7	1137.6	1138.5
157.5°	1170.3	1170.0	1169.7	1169.5	1169.4	1169.6	1169.8	1170.0	1170.1	1171.1	1172.0
160°	1192.0	1191.5	1191.1	1190.6	1190.4	1190.4	1190.4	1190.4	1190.4	1191.5	1192.7
162.5°	1211.3	1210.6	1210.0	1209.4	1209.1	1209.3	1209.5	1209.7	1209.9	1211.0	1212.1
165°	1236.3	1235.7	1235.0	1234.3	1234.0	1234.0	1234.0	1234.0	1234.0	1235.3	1236.7
167.5°	1256.2	1255.3	1254.4	1253.5	1253.1	1253.3	1253.5	1253.7	1253.8	1255.2	1256.6
170°	1267.5	1266.6	1265.7	1264.8	1264.4	1264.4	1264.4	1264.4	1264.4	1265.9	1267.5
172.5°	1276.4	1275.5	1274.6	1273.7	1273.3	1273.3	1273.3	1273.3	1273.3	1274.7	1276.1
175°	1285.8	1284.9	1284.0	1283.1	1282.6	1282.6	1282.6	1282.6	1282.6	1284.0	1285.3
177.5°	1289.8	1289.1	1288.3	1287.6	1287.3	1287.3	1287.3	1287.3	1287.3	1288.3	1289.4
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1290.0	1290.0	1291.7	1298.0	1298.8	1304.3	1302.6
5°	1417.8	1427.7	1431.4	1447.1	1456.5	1460.7	1452.3
7.5°	1574.0	1602.1	1615.4	1631.8	1646.4	1650.8	1639.3
10°	1687.9	1717.2	1741.9	1757.0	1771.2	1780.6	1792.6
12.5°	1798.1	1834.1	1857.5	1878.9	1893.5	1905.4	1907.4
15°	1917.8	1972.2	2013.6	2043.9	2059.1	2067.0	2063.8
17.5°	2038.5	2089.0	2118.4	2149.4	2170.4	2171.5	2172.1
20°	2106.8	2156.0	2190.0	2213.0	2236.6	2235.6	2240.8
22.5°	2152.4	2191.2	2217.2	2234.0	2242.1	2238.1	2239.1
25°	2173.8	2185.3	2180.6	2153.9	2147.1	2122.5	2126.7
27.5°	2063.6	2009.2	1952.8	1880.4	1823.2	1777.6	1779.9
30°	1914.1	1817.8	1707.8	1615.7	1533.0	1509.9	1460.7
32.5°	1705.1	1560.6	1431.8	1345.9	1274.9	1255.7	1212.8
35°	1350.8	1210.4	1078.0	998.4	967.0	923.0	922.5
37.5°	1049.9	926.4	856.3	796.6	765.3	738.7	736.1
40°	883.2	786.9	734.0	691.1	660.2	640.3	635.6
42.5°	766.8	688.9	639.4	612.8	589.0	578.7	571.1
45°	626.2	573.8	539.3	515.2	504.2	496.3	492.1
47.5°	523.8	488.7	465.1	449.1	440.2	431.9	434.1
50°	468.1	439.3	422.0	406.8	400.0	394.2	394.8
52.5°	423.2	397.4	383.4	372.5	364.0	359.9	357.9
55°	359.2	342.9	328.8	320.9	316.2	310.5	308.9
57.5°	306.4	293.8	282.3	273.4	272.2	266.7	267.4
60°	271.2	260.7	251.3	246.6	242.9	238.2	239.8
62.5°	242.3	233.5	224.9	221.0	217.4	213.9	214.7
65°	198.4	190.0	184.8	182.7	181.1	179.6	178.0
67.5°	158.1	153.0	149.7	145.2	142.0	141.5	139.9
70°	133.0	126.2	120.4	114.7	113.1	112.6	113.1
72.5°	106.6	102.3	100.7	97.9	97.6	96.2	97.2
75°	80.1	78.5	77.5	75.4	75.4	75.4	75.4
77.5°	59.1	58.1	57.5	57.1	56.5	55.8	55.7
80°	46.1	45.5	44.5	44.5	44.0	44.5	44.0
82.5°	34.8	34.7	33.6	33.6	33.1	32.8	33.1
85°	17.8	17.3	18.3	17.3	17.8	16.8	17.8
87.5°	10.4	10.6	10.3	10.4	10.1	11.0	10.3
90°	27.0	27.9	28.6	29.0	29.5	29.9	30.4
92.5°	41.1	41.8	42.0	41.7	41.5	41.2	40.9
95°	77.7	78.6	79.0	79.0	79.0	79.0	79.0
97.5°	120.4	121.5	121.9	121.8	121.8	121.7	121.6
100°	151.0	151.6	152.2	152.6	153.1	153.5	154.0
102.5°	186.6	187.3	187.6	187.5	187.4	187.3	187.2
105°	239.1	239.1	239.3	239.8	240.2	240.7	241.1
107.5°	297.4	298.1	298.3	298.1	297.8	297.5	297.2
110°	336.0	336.9	337.1	336.7	336.2	335.8	335.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	374.6	375.7	376.2	376.1	376.0	376.0	375.9
115°	432.3	432.5	432.5	432.3	432.0	431.8	431.6
117.5°	491.0	491.0	490.6	490.0	489.4	488.7	488.1
120°	530.2	530.0	529.6	529.2	528.7	528.3	527.8
122.5°	569.6	569.1	568.4	567.8	567.2	566.6	565.9
125°	628.5	627.6	626.7	625.8	624.9	624.0	623.1
127.5°	686.6	685.3	684.1	683.1	682.1	681.0	680.0
130°	725.7	724.8	723.6	722.0	720.4	718.9	717.3
132.5°	763.3	762.2	761.1	759.8	758.6	757.4	756.2
135°	819.9	819.0	818.4	817.9	817.5	817.0	816.6
137.5°	875.1	874.2	873.3	872.4	871.6	870.7	869.9
140°	912.1	911.9	911.0	909.4	907.9	906.3	904.7
142.5°	946.2	946.0	945.2	944.0	942.8	941.6	940.4
145°	996.2	996.0	995.4	994.5	993.6	992.7	991.8
147.5°	1043.7	1043.7	1043.0	1041.7	1040.3	1039.0	1037.6
150°	1072.9	1072.9	1072.2	1070.9	1069.5	1068.2	1066.8
152.5°	1099.9	1100.3	1099.9	1098.7	1097.5	1096.3	1095.2
155°	1139.4	1140.3	1140.0	1138.4	1136.8	1135.3	1133.7
157.5°	1173.0	1173.9	1173.8	1172.5	1171.3	1170.0	1168.7
160°	1193.8	1194.9	1195.0	1194.1	1193.2	1192.3	1191.4
162.5°	1213.2	1214.4	1214.2	1212.8	1211.3	1209.9	1208.4
165°	1238.0	1239.4	1239.3	1237.7	1236.1	1234.5	1233.0
167.5°	1258.0	1259.4	1259.4	1258.0	1256.6	1255.2	1253.8
170°	1269.1	1270.7	1270.7	1269.1	1267.5	1265.9	1264.4
172.5°	1277.5	1278.9	1278.8	1277.2	1275.6	1274.0	1272.5
175°	1286.7	1288.0	1287.9	1286.3	1284.7	1283.2	1281.6
177.5°	1290.5	1291.6	1291.5	1290.2	1289.0	1287.7	1286.5
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7

(END OF REPORT)