

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: P331813-830

Luminaire Tested: **S122RDIW-S675D970U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331813-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S675D970U830-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 970 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6043.6 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

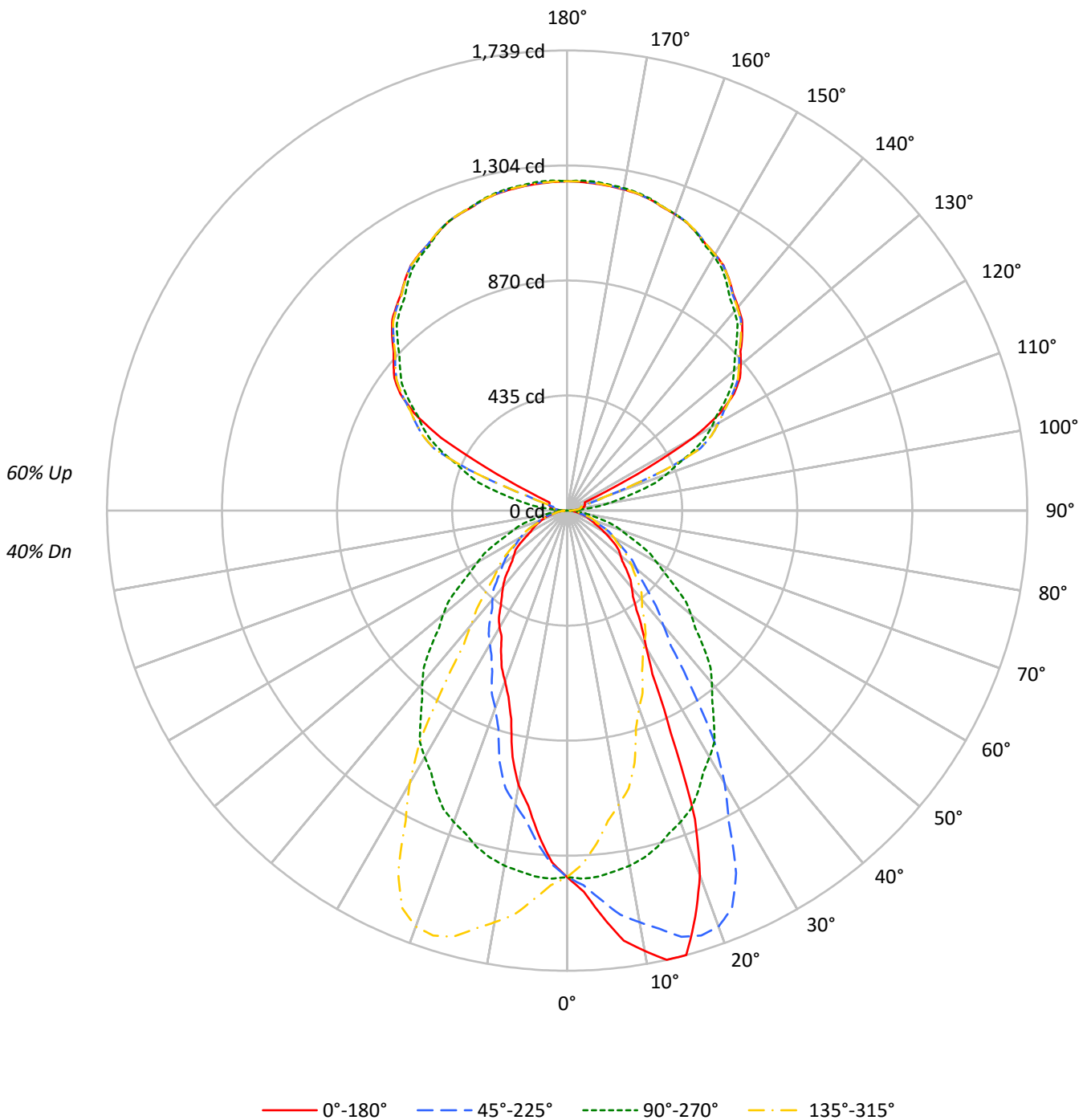
Input Watts (W): 52.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	42	41	40	35
2	88	81	75	71	80	74	69	65	61	58	55	49	47	45	38	36	35	30
3	81	72	65	60	73	66	60	55	54	50	47	44	41	39	34	32	31	26
4	74	64	57	51	67	59	52	47	49	44	40	40	36	34	31	29	27	23
5	68	57	50	44	62	53	46	41	44	39	35	36	32	30	28	26	24	21
6	63	52	44	39	57	48	41	36	40	35	31	33	29	26	26	23	22	19
7	58	47	39	34	53	43	37	32	36	31	28	30	26	24	24	21	19	17
8	54	43	35	30	50	39	33	28	33	28	25	28	24	21	22	20	18	15
9	51	39	32	27	46	36	30	26	31	26	22	25	22	19	21	18	16	14
10	47	36	29	25	43	33	27	23	28	24	20	24	20	18	19	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	22357	22357	22357	22357
5°	24969	22498	19947	22498
10°	27702	22338	17290	22338
15°	29065	22011	13623	22011
20°	25197	21526	11789	21526
25°	16527	20861	10525	20861
30°	11123	20057	9527	20057
35°	9008	19042	8592	19042
40°	8011	17939	7950	17939
45°	7250	16643	7099	16643
50°	6599	15360	6574	15360
55°	6204	13937	6120	13937
60°	5189	12633	5125	12633
65°	4374	11469	4963	11469
70°	4046	10244	4683	10244
75°	3780	8914	4323	8914
80°	3487	7336	3849	7336
85°	3205	5798	3390	5798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	2.2
10°-20°	365.7	6.1
20°-30°	471.3	7.8
30°-40°	447.9	7.4
40°-50°	383.7	6.3
50°-60°	292.2	4.8
60°-70°	184.7	3.1
70°-80°	92.2	1.5
80°-90°	27.1	0.4
90°-100°	41.5	0.7
100°-110°	152.3	2.5
110°-120°	407.0	6.7
120°-130°	671.8	11.1
130°-140°	714.5	11.8
140°-150°	664.1	11.0
150°-160°	533.9	8.8
160°-170°	344.1	5.7
170°-180°	118.4	2.0
0°-30°	968.3	16.0
0°-40°	1416.2	23.4
0°-60°	2092.1	34.6
0°-90°	2396.1	39.6
90°-120°	600.8	9.9
90°-150°	2651.1	43.9
90°-180°	3648.0	60.4
0°-180°	6043.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1385	1385	1385	1385	1385	
5°	1541	1388	1231	1388	1541	152
15°	1739	1317	815	1317	1739	469
25°	928	1171	591	1171	928	440
35°	457	966	436	966	457	292
45°	318	729	311	729	318	246
55°	220	495	217	495	220	193
65°	114	300	130	300	114	117
75°	61	143	69	143	61	64
85°	17	31	18	31	17	19
90°	24	1	24	1	24	11
95°	39	58	39	58	39	36
105°	68	274	68	274	68	71
115°	74	518	74	518	74	185
125°	770	732	770	732	770	666
135°	936	906	936	906	936	721
145°	1067	1051	1067	1051	1067	667
155°	1158	1157	1158	1157	1158	534
165°	1217	1220	1217	1220	1217	344
175°	1240	1247	1240	1247	1240	118
180°	1245	1245	1245	1245	1245	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1440.9	1442.0	1443.2	1440.5	1440.5	1438.1	1433.1	1429.4	1418.5	1417.0	1417.0
5°	1540.6	1539.5	1541.5	1535.3	1526.6	1524.7	1515.5	1503.5	1491.0	1477.1	1474.1
7.5°	1639.6	1638.2	1634.4	1633.3	1626.6	1612.1	1597.4	1581.8	1560.9	1540.7	1530.5
10°	1689.7	1705.6	1695.9	1679.1	1682.5	1659.9	1647.8	1627.2	1609.9	1579.5	1572.8
12.5°	1739.0	1745.2	1742.2	1732.6	1728.2	1712.6	1696.4	1678.4	1646.4	1619.2	1595.5
15°	1738.8	1747.9	1750.3	1747.5	1749.8	1748.9	1740.2	1725.3	1697.4	1667.5	1641.6
17.5°	1610.4	1616.7	1632.6	1643.2	1656.7	1685.2	1699.2	1704.7	1700.5	1683.6	1665.3
20°	1466.5	1455.9	1500.2	1522.8	1542.0	1590.1	1631.4	1647.4	1672.8	1672.4	1667.5
22.5°	1262.4	1265.0	1306.9	1333.8	1390.0	1438.0	1485.3	1545.0	1594.3	1626.9	1646.1
25°	927.7	945.9	987.8	1024.4	1086.8	1176.4	1257.6	1352.0	1441.0	1511.2	1578.1
27.5°	696.6	698.0	731.2	765.0	802.1	875.4	977.8	1090.4	1217.3	1322.0	1442.5
30°	596.6	593.7	607.7	628.4	660.1	716.9	793.8	904.6	1031.0	1188.8	1329.4
32.5°	525.8	525.9	536.5	551.8	578.2	616.4	669.1	759.0	878.6	1033.8	1198.4
35°	457.0	456.6	464.3	475.3	486.4	511.0	547.1	594.2	676.5	821.2	989.7
37.5°	407.8	409.9	413.7	420.6	432.8	446.5	468.2	499.8	558.4	644.0	785.6
40°	380.1	381.1	386.3	392.1	399.4	409.9	427.7	453.2	496.1	564.4	667.8
42.5°	354.7	355.6	359.4	364.8	370.4	381.1	395.8	417.8	452.5	505.9	591.2
45°	317.5	317.5	320.9	323.3	329.6	339.2	351.2	369.5	393.6	433.0	489.7
47.5°	282.7	282.8	285.0	289.2	293.1	300.6	312.5	327.3	344.9	375.4	423.9
50°	262.7	263.2	264.6	268.0	270.4	277.1	286.3	299.3	317.5	341.1	381.5
52.5°	246.6	246.2	248.1	249.5	251.2	256.0	262.8	274.3	290.6	311.1	344.6
55°	220.4	218.4	221.3	223.8	225.2	227.1	230.9	238.2	252.1	269.5	294.5
57.5°	187.7	186.9	188.9	191.1	195.7	200.9	204.1	208.7	215.9	228.4	253.2
60°	160.7	160.7	165.0	166.5	171.7	178.5	185.2	189.1	196.3	204.4	222.7
62.5°	136.9	137.2	139.2	140.7	143.6	151.9	161.4	169.8	176.6	184.5	196.6
65°	114.5	115.5	115.5	116.4	118.4	120.3	124.1	130.8	142.9	153.9	163.1
67.5°	97.2	97.5	97.7	98.7	99.2	101.3	102.8	105.8	108.7	119.1	130.4
70°	85.7	87.1	86.6	87.6	88.0	89.0	91.0	92.4	96.7	99.2	105.8
72.5°	74.8	75.9	75.8	76.4	77.7	77.9	79.4	80.9	83.6	85.7	89.3
75°	60.6	60.1	60.6	61.5	62.0	62.6	62.6	64.5	65.9	67.9	70.2
77.5°	46.8	47.2	47.1	47.2	47.3	48.2	48.1	49.0	50.4	51.4	52.5
80°	37.5	38.0	37.5	38.0	38.5	38.9	38.5	38.9	40.4	41.4	41.4
82.5°	29.0	29.1	29.4	29.5	29.6	29.7	30.4	30.5	31.6	31.4	31.8
85°	17.3	16.9	16.9	16.9	17.3	17.8	17.3	17.3	17.8	17.8	17.8
87.5°	11.0	11.3	11.2	11.1	11.1	10.9	10.7	10.9	10.4	10.6	9.8
90°	24.3	23.9	23.5	23.1	22.7	22.1	21.0	20.0	19.0	18.0	16.4
92.5°	24.3	24.0	23.8	23.6	23.4	23.0	22.4	22.0	21.4	20.9	20.1
95°	38.7	38.9	39.1	39.3	39.5	39.1	38.2	37.1	36.1	35.2	33.7
97.5°	51.7	51.5	51.2	51.0	50.7	50.2	49.4	48.6	47.8	47.0	43.7
100°	60.3	59.9	59.6	59.1	58.7	57.8	56.2	54.6	53.0	51.4	48.0
102.5°	64.7	64.1	63.5	63.0	62.4	61.1	59.0	56.9	54.9	52.8	81.2
105°	68.4	67.7	66.8	66.1	65.2	63.7	61.5	59.4	57.1	55.0	109.6
107.5°	70.4	69.7	68.8	68.1	67.2	68.0	70.2	72.4	74.6	76.9	142.4
110°	71.2	70.3	69.6	68.7	68.0	77.6	97.6	117.5	137.6	157.6	215.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	71.9	71.3	70.6	69.9	69.3	105.5	178.5	251.5	324.5	397.6	411.8
115°	73.9	88.2	102.6	117.1	131.5	185.0	277.7	370.3	463.0	555.7	550.7
117.5°	301.5	348.9	396.2	443.6	491.0	525.8	548.3	570.6	593.0	615.5	612.1
120°	549.4	576.4	603.4	630.5	657.4	669.8	667.3	665.0	662.6	660.2	656.6
122.5°	685.6	690.8	696.1	701.3	706.5	708.4	707.0	705.6	704.1	702.7	698.7
125°	770.1	769.4	768.8	768.3	767.6	766.7	765.3	763.8	762.4	761.0	757.2
127.5°	823.3	823.2	823.1	823.0	822.8	821.8	819.7	817.7	815.7	813.6	810.8
130°	856.5	856.7	856.9	857.1	857.3	856.3	854.1	851.9	849.7	847.5	845.3
132.5°	888.9	889.1	889.3	889.5	889.8	888.9	887.0	885.1	883.3	881.4	879.1
135°	935.8	936.1	936.5	937.0	937.4	936.5	934.5	932.6	930.6	928.6	926.7
137.5°	978.5	979.1	979.8	980.5	981.2	980.5	978.5	976.6	974.7	972.7	970.6
140°	1005.1	1006.1	1007.1	1008.1	1009.1	1008.7	1006.9	1005.1	1003.3	1001.5	999.3
142.5°	1031.0	1032.1	1033.0	1034.1	1035.0	1034.7	1033.1	1031.4	1029.8	1028.1	1025.7
145°	1067.2	1068.3	1069.2	1070.3	1071.3	1071.0	1069.7	1068.3	1066.9	1065.5	1062.1
147.5°	1099.1	1099.9	1100.8	1101.6	1102.5	1102.4	1101.4	1100.3	1099.3	1098.3	1094.9
150°	1118.6	1119.6	1120.6	1121.6	1122.6	1122.5	1121.2	1120.1	1118.9	1117.7	1114.5
152.5°	1135.2	1136.5	1137.8	1139.2	1140.5	1140.5	1139.3	1138.1	1136.9	1135.7	1132.7
155°	1158.2	1159.8	1161.4	1163.0	1164.6	1164.8	1163.6	1162.4	1161.2	1160.0	1157.6
157.5°	1179.3	1180.8	1182.4	1183.9	1185.5	1185.6	1184.3	1182.9	1181.6	1180.2	1178.5
160°	1191.6	1193.0	1194.3	1195.7	1197.1	1197.2	1196.0	1194.9	1193.6	1192.4	1191.3
162.5°	1201.6	1203.3	1205.0	1206.7	1208.5	1208.7	1207.3	1206.0	1204.6	1203.2	1202.2
165°	1216.7	1218.1	1219.6	1221.0	1222.4	1222.4	1221.0	1219.6	1218.1	1216.7	1216.2
167.5°	1226.3	1228.1	1229.9	1231.7	1233.5	1233.7	1232.3	1230.9	1229.5	1228.1	1227.6
170°	1232.1	1233.9	1235.7	1237.5	1239.3	1239.4	1238.0	1236.7	1235.3	1233.9	1233.5
172.5°	1236.4	1238.2	1240.0	1241.8	1243.6	1243.8	1242.4	1241.0	1239.6	1238.2	1237.7
175°	1240.2	1242.2	1244.2	1246.1	1248.2	1248.5	1247.1	1245.7	1244.3	1242.8	1242.5
177.5°	1242.6	1244.0	1245.4	1246.8	1248.3	1248.4	1247.3	1246.2	1245.1	1244.0	1243.8
180°	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1417.8	1414.7	1412.0	1405.0	1401.7	1393.9	1392.8	1392.4	1382.3	1372.7	1370.1
5°	1466.5	1458.8	1447.2	1433.7	1419.8	1405.3	1395.7	1388.1	1368.8	1350.5	1339.9
7.5°	1515.5	1499.0	1479.0	1453.6	1432.3	1408.4	1390.7	1374.9	1347.6	1321.4	1303.7
10°	1552.1	1525.1	1498.7	1463.6	1436.2	1409.2	1384.2	1362.5	1331.7	1297.1	1272.5
12.5°	1574.8	1545.2	1508.7	1474.3	1438.9	1404.6	1371.1	1343.3	1307.1	1271.3	1242.2
15°	1605.5	1573.8	1529.5	1480.5	1434.7	1390.0	1351.5	1316.8	1269.7	1226.9	1191.3
17.5°	1630.6	1587.0	1539.4	1482.6	1429.7	1372.8	1323.2	1279.0	1226.5	1174.9	1132.9
20°	1638.7	1595.4	1540.6	1483.8	1421.3	1354.3	1301.0	1252.8	1196.6	1140.3	1092.1
22.5°	1633.7	1600.1	1539.0	1471.1	1407.0	1337.0	1276.7	1220.9	1158.5	1101.0	1045.2
25°	1599.8	1588.2	1530.5	1456.3	1383.3	1301.9	1232.2	1171.0	1099.9	1038.3	977.6
27.5°	1520.5	1545.5	1509.7	1430.8	1349.4	1262.3	1183.8	1114.3	1040.4	971.1	910.7
30°	1444.4	1501.6	1486.2	1413.1	1322.1	1236.5	1148.5	1075.8	996.9	925.7	866.0
32.5°	1340.0	1434.6	1449.6	1388.5	1294.4	1200.3	1108.1	1035.8	953.4	878.4	820.2
35°	1173.9	1315.4	1380.4	1341.3	1247.1	1145.6	1050.3	966.1	883.4	809.3	751.5
37.5°	975.8	1168.5	1276.7	1279.5	1192.9	1087.3	983.6	900.0	815.3	742.5	680.1
40°	847.3	1056.0	1197.0	1228.3	1155.2	1041.1	936.2	851.1	768.4	697.1	625.5
42.5°	731.8	939.8	1113.1	1167.5	1109.4	996.1	890.9	801.8	721.4	654.0	580.8
45°	591.8	773.6	964.7	1061.9	1029.6	924.7	813.6	728.9	653.4	595.1	524.9
47.5°	499.2	627.4	812.2	943.7	943.1	847.3	738.0	657.0	586.9	532.3	475.4
50°	446.5	558.1	714.4	863.7	876.1	795.8	691.8	611.5	546.1	488.8	443.1
52.5°	399.2	491.2	631.7	774.7	810.3	740.7	639.9	565.7	502.2	449.6	410.4
55°	337.2	408.5	515.3	649.0	702.9	653.8	564.4	495.1	443.6	399.4	365.6
57.5°	285.3	338.7	424.4	532.2	594.8	564.0	490.1	433.9	389.8	349.8	323.2
60°	252.6	296.3	369.0	459.0	528.3	506.6	443.6	391.2	353.6	319.0	294.0
62.5°	221.8	259.4	321.7	394.7	458.3	449.3	397.8	353.8	320.9	289.4	268.2
65°	178.5	205.9	254.5	311.8	362.8	367.1	330.1	300.2	270.9	245.8	227.1
67.5°	142.1	160.0	194.3	242.5	280.7	294.4	271.7	248.9	225.6	206.3	190.0
70°	119.8	134.2	159.3	198.2	233.4	247.8	234.8	217.0	196.8	180.9	166.9
72.5°	97.1	111.1	129.6	158.2	188.3	203.9	199.3	186.6	170.2	157.0	143.8
75°	73.1	77.5	90.0	109.2	132.8	146.3	149.7	142.9	129.9	119.8	112.1
77.5°	54.1	56.6	62.7	72.8	88.1	100.2	105.1	104.3	95.4	89.4	82.3
80°	43.3	44.8	47.6	51.9	63.5	75.5	78.9	78.9	72.7	70.2	63.1
82.5°	32.9	33.9	35.7	38.1	43.5	54.0	57.8	58.5	54.6	51.4	45.7
85°	18.8	18.3	19.2	20.6	21.7	24.5	30.3	31.3	30.3	26.5	25.0
87.5°	9.5	9.6	9.2	8.5	8.4	8.4	9.9	11.3	10.3	9.5	9.2
90°	14.8	13.2	11.6	9.7	7.5	5.3	3.1	0.9	3.1	5.3	7.5
92.5°	19.3	18.5	17.7	17.4	17.6	17.8	18.0	18.2	18.0	17.8	17.6
95°	32.3	30.9	29.5	32.1	38.7	45.3	51.9	58.5	51.9	45.3	38.7
97.5°	40.5	37.3	34.0	41.8	60.3	79.0	97.6	116.2	97.6	79.0	60.3
100°	44.5	41.1	37.7	49.8	77.2	104.5	132.0	159.4	132.0	104.5	77.2
102.5°	109.7	138.2	166.6	183.7	189.5	195.4	201.1	207.0	201.1	195.4	189.5
105°	164.2	218.9	273.5	297.8	291.8	285.8	279.8	273.8	279.8	285.8	291.8
107.5°	207.9	273.5	339.0	369.4	364.5	359.7	354.9	350.0	354.9	359.7	364.5
110°	273.3	331.1	389.0	415.8	411.6	407.4	403.2	399.0	403.2	407.4	411.6



TEST NUMBER: P331813-830

CATALOG NUMBER: S122RDIW-S675D970U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	426.1	440.5	454.7	460.0	456.3	452.5	448.8	445.1	448.8	452.5	456.3
115°	545.6	540.6	535.6	531.5	528.1	524.7	521.2	517.8	521.2	524.7	528.1
117.5°	608.6	605.2	601.7	598.1	594.3	590.5	586.7	582.9	586.7	590.5	594.3
120°	653.0	649.3	645.7	642.4	639.4	636.4	633.5	630.5	633.5	636.4	639.4
122.5°	694.8	690.9	687.0	683.4	680.2	677.1	673.9	670.8	673.9	677.1	680.2
125°	753.5	749.6	745.8	742.6	740.0	737.4	734.8	732.2	734.8	737.4	740.0
127.5°	807.9	805.1	802.3	799.4	796.5	793.6	790.8	787.9	790.8	793.6	796.5
130°	843.1	840.8	838.7	835.9	832.7	829.6	826.4	823.2	826.4	829.6	832.7
132.5°	876.9	874.8	872.5	870.1	867.3	864.7	862.0	859.2	862.0	864.7	867.3
135°	924.9	923.1	921.3	918.9	915.7	912.5	909.3	906.1	909.3	912.5	915.7
137.5°	968.6	966.6	964.5	962.3	960.2	957.9	955.6	953.4	955.6	957.9	960.2
140°	997.1	994.9	992.7	990.8	989.2	987.6	986.0	984.4	986.0	987.6	989.2
142.5°	1023.1	1020.6	1018.0	1016.1	1014.6	1013.2	1011.7	1010.3	1011.7	1013.2	1014.6
145°	1058.7	1055.3	1051.9	1050.3	1050.5	1050.7	1050.8	1051.0	1050.8	1050.7	1050.5
147.5°	1091.5	1088.2	1084.8	1083.5	1084.2	1085.0	1085.7	1086.6	1085.7	1085.0	1084.2
150°	1111.3	1108.1	1104.8	1104.0	1105.4	1106.7	1108.1	1109.6	1108.1	1106.7	1105.4
152.5°	1129.6	1126.5	1123.5	1122.8	1124.4	1125.9	1127.5	1129.1	1127.5	1125.9	1124.4
155°	1155.2	1152.8	1150.4	1150.1	1151.9	1153.7	1155.5	1157.3	1155.5	1153.7	1151.9
157.5°	1176.9	1175.2	1173.5	1173.4	1174.9	1176.4	1178.0	1179.5	1178.0	1176.4	1174.9
160°	1190.1	1188.8	1187.6	1187.6	1188.8	1190.1	1191.3	1192.4	1191.3	1190.1	1188.8
162.5°	1201.2	1200.1	1199.1	1199.2	1200.3	1201.6	1202.8	1204.0	1202.8	1201.6	1200.3
165°	1215.5	1214.9	1214.4	1214.7	1215.9	1217.0	1218.2	1219.5	1218.2	1217.0	1215.9
167.5°	1227.0	1226.4	1225.9	1226.2	1227.4	1228.6	1229.7	1231.0	1229.7	1228.6	1227.4
170°	1233.0	1232.7	1232.3	1232.7	1233.9	1235.1	1236.2	1237.5	1236.2	1235.1	1233.9
172.5°	1237.4	1237.0	1236.6	1237.0	1238.2	1239.3	1240.6	1241.8	1240.6	1239.3	1238.2
175°	1242.1	1241.7	1241.2	1241.8	1243.2	1244.5	1245.9	1247.4	1245.9	1244.5	1243.2
177.5°	1243.6	1243.5	1243.3	1243.8	1244.9	1246.0	1247.2	1248.3	1247.2	1246.0	1244.9
180°	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6



TEST NUMBER: P331813-830

CATALOG NUMBER: S122RDIW-S675D970U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1365.1	1362.4	1357.4	1349.6	1345.0	1336.9	1331.5	1334.6	1335.4	1334.6	1333.9
5°	1328.4	1318.2	1304.3	1290.8	1278.4	1264.9	1257.2	1253.8	1247.1	1243.2	1241.3
7.5°	1284.0	1266.6	1246.9	1223.4	1203.4	1182.6	1172.0	1166.6	1152.8	1145.4	1138.8
10°	1250.9	1223.5	1203.8	1173.0	1154.2	1126.8	1108.1	1108.5	1089.8	1079.1	1071.5
12.5°	1214.4	1184.2	1151.4	1123.7	1097.6	1075.6	1053.0	1043.9	1023.9	1013.7	993.0
15°	1153.8	1118.6	1084.0	1046.4	1020.0	985.8	953.1	913.1	880.9	853.0	845.4
17.5°	1087.5	1044.1	1009.3	965.3	919.9	862.4	824.5	801.3	781.9	767.2	756.2
20°	1042.1	997.9	960.8	894.4	833.3	794.4	766.5	748.7	728.4	712.6	703.9
22.5°	994.4	948.2	897.7	823.6	776.0	744.7	719.8	699.4	685.7	673.3	665.4
25°	926.6	876.1	792.9	741.9	703.4	670.7	653.4	640.8	626.4	609.5	601.9
27.5°	855.1	774.7	714.9	677.0	640.3	619.0	603.4	584.8	571.8	564.3	556.3
30°	801.5	721.2	674.6	633.2	607.2	583.6	565.3	554.8	542.2	529.2	524.0
32.5°	741.9	677.7	633.0	598.5	572.1	552.0	537.6	520.5	511.4	503.4	492.4
35°	667.8	619.3	578.3	550.4	525.4	509.1	492.2	482.1	465.7	459.0	454.7
37.5°	605.0	562.9	532.4	502.9	483.1	465.1	454.8	438.7	431.6	422.3	413.1
40°	569.7	528.3	498.9	474.9	452.7	439.2	426.3	413.3	402.7	398.4	387.3
42.5°	533.5	499.8	470.4	444.0	429.2	415.0	398.6	389.1	378.1	371.1	364.2
45°	483.5	453.7	428.7	407.0	390.7	375.8	365.1	349.3	343.1	329.0	323.3
47.5°	439.7	411.9	388.0	367.5	351.5	341.8	326.3	313.9	303.9	295.3	287.9
50°	408.5	385.4	362.3	344.0	329.6	315.7	299.7	293.5	278.1	273.7	269.5
52.5°	380.0	358.1	336.9	319.0	304.5	291.0	277.0	268.8	258.4	254.1	251.0
55°	340.2	319.0	298.8	282.9	268.4	254.5	245.8	235.7	230.9	227.5	223.8
57.5°	300.1	281.1	265.6	249.5	235.0	223.9	213.9	207.8	202.8	198.4	193.8
60°	274.8	256.5	242.5	227.5	212.6	203.5	195.9	188.6	182.9	176.1	174.2
62.5°	247.8	231.8	219.0	204.4	191.5	183.1	175.8	169.0	162.0	152.2	149.5
65°	210.8	198.2	184.7	172.8	161.2	153.0	142.4	134.7	131.9	130.8	130.4
67.5°	177.3	165.4	153.8	141.6	131.0	123.5	118.1	116.9	114.9	114.3	113.0
70°	155.0	143.8	132.3	120.7	110.7	109.2	107.3	105.4	102.9	102.0	101.0
72.5°	134.9	123.5	111.9	102.6	98.3	96.5	94.6	92.7	91.0	90.1	89.4
75°	103.4	92.8	85.2	81.8	79.4	77.9	75.0	73.6	72.7	71.2	70.7
77.5°	74.5	68.5	64.9	62.9	60.3	58.8	57.1	55.7	54.7	54.4	53.6
80°	56.7	53.9	51.5	48.6	47.6	45.7	45.2	43.8	44.3	42.8	42.8
82.5°	44.1	40.4	38.4	37.0	36.1	34.6	34.0	33.4	33.5	32.4	32.4
85°	22.6	21.7	20.6	19.7	19.7	18.3	18.8	18.3	18.3	17.3	16.9
87.5°	9.2	9.2	8.8	9.1	9.4	9.3	9.6	9.4	9.6	9.8	9.5
90°	9.7	11.6	13.2	14.8	16.4	18.0	19.0	20.0	21.0	22.1	22.7
92.5°	17.4	17.7	18.5	19.3	20.1	20.9	21.4	22.0	22.4	23.0	23.4
95°	32.1	29.5	30.9	32.3	33.7	35.2	36.1	37.1	38.2	39.1	39.5
97.5°	41.8	34.0	37.3	40.5	43.7	47.0	47.8	48.6	49.4	50.2	50.7
100°	49.8	37.7	41.1	44.5	48.0	51.4	53.0	54.6	56.2	57.8	58.7
102.5°	183.7	166.6	138.2	109.7	81.2	52.8	54.9	56.9	59.0	61.1	62.4
105°	297.8	273.5	218.9	164.2	109.6	55.0	57.1	59.4	61.5	63.7	65.2
107.5°	369.4	339.0	273.5	207.9	142.4	76.9	74.6	72.4	70.2	68.0	67.2
110°	415.8	389.0	331.1	273.3	215.5	157.6	137.6	117.5	97.6	77.6	68.0



TEST NUMBER: P331813-830

CATALOG NUMBER: S122RDIW-S675D970U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	460.0	454.7	440.5	426.1	411.8	397.6	324.5	251.5	178.5	105.5	69.3
115°	531.5	535.6	540.6	545.6	550.7	555.7	463.0	370.3	277.7	185.0	131.5
117.5°	598.1	601.7	605.2	608.6	612.1	615.5	593.0	570.6	548.3	525.8	491.0
120°	642.4	645.7	649.3	653.0	656.6	660.2	662.6	665.0	667.3	669.8	657.4
122.5°	683.4	687.0	690.9	694.8	698.7	702.7	704.1	705.6	707.0	708.4	706.5
125°	742.6	745.8	749.6	753.5	757.2	761.0	762.4	763.8	765.3	766.7	767.6
127.5°	799.4	802.3	805.1	807.9	810.8	813.6	815.7	817.7	819.7	821.8	822.8
130°	835.9	838.7	840.8	843.1	845.3	847.5	849.7	851.9	854.1	856.3	857.3
132.5°	870.1	872.5	874.8	876.9	879.1	881.4	883.3	885.1	887.0	888.9	889.8
135°	918.9	921.3	923.1	924.9	926.7	928.6	930.6	932.6	934.5	936.5	937.4
137.5°	962.3	964.5	966.6	968.6	970.6	972.7	974.7	976.6	978.5	980.5	981.2
140°	990.8	992.7	994.9	997.1	999.3	1001.5	1003.3	1005.1	1006.9	1008.7	1009.1
142.5°	1016.1	1018.0	1020.6	1023.1	1025.7	1028.1	1029.8	1031.4	1033.1	1034.7	1035.0
145°	1050.3	1051.9	1055.3	1058.7	1062.1	1065.5	1066.9	1068.3	1069.7	1071.0	1071.3
147.5°	1083.5	1084.8	1088.2	1091.5	1094.9	1098.3	1099.3	1100.3	1101.4	1102.4	1102.5
150°	1104.0	1104.8	1108.1	1111.3	1114.5	1117.7	1118.9	1120.1	1121.2	1122.5	1122.6
152.5°	1122.8	1123.5	1126.5	1129.6	1132.7	1135.7	1136.9	1138.1	1139.3	1140.5	1140.5
155°	1150.1	1150.4	1152.8	1155.2	1157.6	1160.0	1161.2	1162.4	1163.6	1164.8	1164.6
157.5°	1173.4	1173.5	1175.2	1176.9	1178.5	1180.2	1181.6	1182.9	1184.3	1185.6	1185.5
160°	1187.6	1187.6	1188.8	1190.1	1191.3	1192.4	1193.6	1194.9	1196.0	1197.2	1197.1
162.5°	1199.2	1199.1	1200.1	1201.2	1202.2	1203.2	1204.6	1206.0	1207.3	1208.7	1208.5
165°	1214.7	1214.4	1214.9	1215.5	1216.2	1216.7	1218.1	1219.6	1221.0	1222.4	1222.4
167.5°	1226.2	1225.9	1226.4	1227.0	1227.6	1228.1	1229.5	1230.9	1232.3	1233.7	1233.5
170°	1232.7	1232.3	1232.7	1233.0	1233.5	1233.9	1235.3	1236.7	1238.0	1239.4	1239.3
172.5°	1237.0	1236.6	1237.0	1237.4	1237.7	1238.2	1239.6	1241.0	1242.4	1243.8	1243.6
175°	1241.8	1241.2	1241.7	1242.1	1242.5	1242.8	1244.3	1245.7	1247.1	1248.5	1248.2
177.5°	1243.8	1243.3	1243.5	1243.6	1243.8	1244.0	1245.1	1246.2	1247.3	1248.4	1248.3
180°	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6



TEST NUMBER: P331813-830

CATALOG NUMBER: S122RDIW-S675D970U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1329.6	1330.4	1329.3	1330.0	1329.3	1330.4	1329.6	1333.9	1334.6	1335.4	1334.6
5°	1238.9	1233.1	1232.2	1230.7	1232.2	1233.1	1238.9	1241.3	1243.2	1247.1	1253.8
7.5°	1130.6	1129.6	1127.3	1123.9	1127.3	1129.6	1130.6	1138.8	1145.4	1152.8	1166.6
10°	1060.8	1058.5	1058.0	1054.6	1058.0	1058.5	1060.8	1071.5	1079.1	1089.8	1108.5
12.5°	979.3	963.7	962.1	953.8	962.1	963.7	979.3	993.0	1013.7	1023.9	1043.9
15°	833.8	830.9	821.2	815.0	821.2	830.9	833.8	845.4	853.0	880.9	913.1
17.5°	750.6	741.2	738.2	736.9	738.2	741.2	750.6	756.2	767.2	781.9	801.3
20°	697.1	688.5	687.0	686.1	687.0	688.5	697.1	703.9	712.6	728.4	748.7
22.5°	660.2	651.1	647.4	644.5	647.4	651.1	660.2	665.4	673.3	685.7	699.4
25°	597.1	593.7	591.8	590.8	591.8	593.7	597.1	601.9	609.5	626.4	640.8
27.5°	547.7	540.3	538.9	536.4	538.9	540.3	547.7	556.3	564.3	571.8	584.8
30°	519.6	517.2	513.9	511.0	513.9	517.2	519.6	524.0	529.2	542.2	554.8
32.5°	486.5	484.5	481.5	480.1	481.5	484.5	486.5	492.4	503.4	511.4	520.5
35°	449.9	443.1	440.3	435.9	440.3	443.1	449.9	454.7	459.0	465.7	482.1
37.5°	411.0	407.6	403.5	404.9	403.5	407.6	411.0	413.1	422.3	431.6	438.7
40°	381.1	378.6	377.7	377.2	377.7	378.6	381.1	387.3	398.4	402.7	413.3
42.5°	357.2	350.5	348.1	348.0	348.1	350.5	357.2	364.2	371.1	378.1	389.1
45°	320.9	314.6	310.3	310.9	310.3	314.6	320.9	323.3	329.0	343.1	349.3
47.5°	283.8	283.6	280.9	281.7	280.9	283.6	283.8	287.9	295.3	303.9	313.9
50°	266.1	263.2	261.3	261.7	261.3	263.2	266.1	269.5	273.7	278.1	293.5
52.5°	249.1	246.7	245.1	247.1	245.1	246.7	249.1	251.0	254.1	258.4	268.8
55°	221.3	218.4	217.9	217.4	217.9	218.4	221.3	223.8	227.5	230.9	235.7
57.5°	190.2	188.3	185.4	184.2	185.4	188.3	190.2	193.8	198.4	202.8	207.8
60°	167.9	164.1	159.3	158.7	159.3	164.1	167.9	174.2	176.1	182.9	188.6
62.5°	147.5	146.8	145.8	145.7	145.8	146.8	147.5	149.5	152.2	162.0	169.0
65°	129.4	128.9	129.4	129.9	129.4	128.9	129.4	130.4	130.8	131.9	134.7
67.5°	112.8	111.9	111.0	111.4	111.0	111.9	112.8	113.0	114.3	114.9	116.9
70°	100.1	99.6	99.2	99.2	99.2	99.6	100.1	101.0	102.0	102.9	105.4
72.5°	87.8	87.7	87.2	86.8	87.2	87.7	87.8	89.4	90.1	91.0	92.7
75°	70.2	69.3	69.3	69.3	69.3	69.3	70.2	70.7	71.2	72.7	73.6
77.5°	53.5	53.1	52.5	52.1	52.5	53.1	53.5	53.6	54.4	54.7	55.7
80°	42.3	41.8	41.4	41.4	41.4	41.8	42.3	42.8	42.8	44.3	43.8
82.5°	32.3	31.9	31.8	31.4	31.8	31.9	32.3	32.4	32.4	33.5	33.4
85°	17.3	17.8	17.3	18.3	17.3	17.8	17.3	16.9	17.3	18.3	18.3
87.5°	9.6	9.3	9.8	9.5	9.8	9.3	9.6	9.5	9.8	9.6	9.4
90°	23.1	23.5	23.9	24.3	23.9	23.5	23.1	22.7	22.1	21.0	20.0
92.5°	23.6	23.8	24.0	24.3	24.0	23.8	23.6	23.4	23.0	22.4	22.0
95°	39.3	39.1	38.9	38.7	38.9	39.1	39.3	39.5	39.1	38.2	37.1
97.5°	51.0	51.2	51.5	51.7	51.5	51.2	51.0	50.7	50.2	49.4	48.6
100°	59.1	59.6	59.9	60.3	59.9	59.6	59.1	58.7	57.8	56.2	54.6
102.5°	63.0	63.5	64.1	64.7	64.1	63.5	63.0	62.4	61.1	59.0	56.9
105°	66.1	66.8	67.7	68.4	67.7	66.8	66.1	65.2	63.7	61.5	59.4
107.5°	68.1	68.8	69.7	70.4	69.7	68.8	68.1	67.2	68.0	70.2	72.4
110°	68.7	69.6	70.3	71.2	70.3	69.6	68.7	68.0	77.6	97.6	117.5



TEST NUMBER: P331813-830

CATALOG NUMBER: S122RDIW-S675D970U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	69.9	70.6	71.3	71.9	71.3	70.6	69.9	69.3	105.5	178.5	251.5
115°	117.1	102.6	88.2	73.9	88.2	102.6	117.1	131.5	185.0	277.7	370.3
117.5°	443.6	396.2	348.9	301.5	348.9	396.2	443.6	491.0	525.8	548.3	570.6
120°	630.5	603.4	576.4	549.4	576.4	603.4	630.5	657.4	669.8	667.3	665.0
122.5°	701.3	696.1	690.8	685.6	690.8	696.1	701.3	706.5	708.4	707.0	705.6
125°	768.3	768.8	769.4	770.1	769.4	768.8	768.3	767.6	766.7	765.3	763.8
127.5°	823.0	823.1	823.2	823.3	823.2	823.1	823.0	822.8	821.8	819.7	817.7
130°	857.1	856.9	856.7	856.5	856.7	856.9	857.1	857.3	856.3	854.1	851.9
132.5°	889.5	889.3	889.1	888.9	889.1	889.3	889.5	889.8	888.9	887.0	885.1
135°	937.0	936.5	936.1	935.8	936.1	936.5	937.0	937.4	936.5	934.5	932.6
137.5°	980.5	979.8	979.1	978.5	979.1	979.8	980.5	981.2	980.5	978.5	976.6
140°	1008.1	1007.1	1006.1	1005.1	1006.1	1007.1	1008.1	1009.1	1008.7	1006.9	1005.1
142.5°	1034.1	1033.0	1032.1	1031.0	1032.1	1033.0	1034.1	1035.0	1034.7	1033.1	1031.4
145°	1070.3	1069.2	1068.3	1067.2	1068.3	1069.2	1070.3	1071.3	1071.0	1069.7	1068.3
147.5°	1101.6	1100.8	1099.9	1099.1	1099.9	1100.8	1101.6	1102.5	1102.4	1101.4	1100.3
150°	1121.6	1120.6	1119.6	1118.6	1119.6	1120.6	1121.6	1122.6	1122.5	1121.2	1120.1
152.5°	1139.2	1137.8	1136.5	1135.2	1136.5	1137.8	1139.2	1140.5	1140.5	1139.3	1138.1
155°	1163.0	1161.4	1159.8	1158.2	1159.8	1161.4	1163.0	1164.6	1164.8	1163.6	1162.4
157.5°	1183.9	1182.4	1180.8	1179.3	1180.8	1182.4	1183.9	1185.5	1185.6	1184.3	1182.9
160°	1195.7	1194.3	1193.0	1191.6	1193.0	1194.3	1195.7	1197.1	1197.2	1196.0	1194.9
162.5°	1206.7	1205.0	1203.3	1201.6	1203.3	1205.0	1206.7	1208.5	1208.7	1207.3	1206.0
165°	1221.0	1219.6	1218.1	1216.7	1218.1	1219.6	1221.0	1222.4	1222.4	1221.0	1219.6
167.5°	1231.7	1229.9	1228.1	1226.3	1228.1	1229.9	1231.7	1233.5	1233.7	1232.3	1230.9
170°	1237.5	1235.7	1233.9	1232.1	1233.9	1235.7	1237.5	1239.3	1239.4	1238.0	1236.7
172.5°	1241.8	1240.0	1238.2	1236.4	1238.2	1240.0	1241.8	1243.6	1243.8	1242.4	1241.0
175°	1246.1	1244.2	1242.2	1240.2	1242.2	1244.2	1246.1	1248.2	1248.5	1247.1	1245.7
177.5°	1246.8	1245.4	1244.0	1242.6	1244.0	1245.4	1246.8	1248.3	1248.4	1247.3	1246.2
180°	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6



TEST NUMBER: P331813-830

CATALOG NUMBER: S122RDIW-S675D970U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1331.5	1336.9	1345.0	1349.6	1357.4	1362.4	1365.1	1370.1	1372.7	1382.3	1392.4
5°	1257.2	1264.9	1278.4	1290.8	1304.3	1318.2	1328.4	1339.9	1350.5	1368.8	1388.1
7.5°	1172.0	1182.6	1203.4	1223.4	1246.9	1266.6	1284.0	1303.7	1321.4	1347.6	1374.9
10°	1108.1	1126.8	1154.2	1173.0	1203.8	1223.5	1250.9	1272.5	1297.1	1331.7	1362.5
12.5°	1053.0	1075.6	1097.6	1123.7	1151.4	1184.2	1214.4	1242.2	1271.3	1307.1	1343.3
15°	953.1	985.8	1020.0	1046.4	1084.0	1118.6	1153.8	1191.3	1226.9	1269.7	1316.8
17.5°	824.5	862.4	919.9	965.3	1009.3	1044.1	1087.5	1132.9	1174.9	1226.5	1279.0
20°	766.5	794.4	833.3	894.4	960.8	997.9	1042.1	1092.1	1140.3	1196.6	1252.8
22.5°	719.8	744.7	776.0	823.6	897.7	948.2	994.4	1045.2	1101.0	1158.5	1220.9
25°	653.4	670.7	703.4	741.9	792.9	876.1	926.6	977.6	1038.3	1099.9	1171.0
27.5°	603.4	619.0	640.3	677.0	714.9	774.7	855.1	910.7	971.1	1040.4	1114.3
30°	565.3	583.6	607.2	633.2	674.6	721.2	801.5	866.0	925.7	996.9	1075.8
32.5°	537.6	552.0	572.1	598.5	633.0	677.7	741.9	820.2	878.4	953.4	1035.8
35°	492.2	509.1	525.4	550.4	578.3	619.3	667.8	751.5	809.3	883.4	966.1
37.5°	454.8	465.1	483.1	502.9	532.4	562.9	605.0	680.1	742.5	815.3	900.0
40°	426.3	439.2	452.7	474.9	498.9	528.3	569.7	625.5	697.1	768.4	851.1
42.5°	398.6	415.0	429.2	444.0	470.4	499.8	533.5	580.8	654.0	721.4	801.8
45°	365.1	375.8	390.7	407.0	428.7	453.7	483.5	524.9	595.1	653.4	728.9
47.5°	326.3	341.8	351.5	367.5	388.0	411.9	439.7	475.4	532.3	586.9	657.0
50°	299.7	315.7	329.6	344.0	362.3	385.4	408.5	443.1	488.8	546.1	611.5
52.5°	277.0	291.0	304.5	319.0	336.9	358.1	380.0	410.4	449.6	502.2	565.7
55°	245.8	254.5	268.4	282.9	298.8	319.0	340.2	365.6	399.4	443.6	495.1
57.5°	213.9	223.9	235.0	249.5	265.6	281.1	300.1	323.2	349.8	389.8	433.9
60°	195.9	203.5	212.6	227.5	242.5	256.5	274.8	294.0	319.0	353.6	391.2
62.5°	175.8	183.1	191.5	204.4	219.0	231.8	247.8	268.2	289.4	320.9	353.8
65°	142.4	153.0	161.2	172.8	184.7	198.2	210.8	227.1	245.8	270.9	300.2
67.5°	118.1	123.5	131.0	141.6	153.8	165.4	177.3	190.0	206.3	225.6	248.9
70°	107.3	109.2	110.7	120.7	132.3	143.8	155.0	166.9	180.9	196.8	217.0
72.5°	94.6	96.5	98.3	102.6	111.9	123.5	134.9	143.8	157.0	170.2	186.6
75°	75.0	77.9	79.4	81.8	85.2	92.8	103.4	112.1	119.8	129.9	142.9
77.5°	57.1	58.8	60.3	62.9	64.9	68.5	74.5	82.3	89.4	95.4	104.3
80°	45.2	45.7	47.6	48.6	51.5	53.9	56.7	63.1	70.2	72.7	78.9
82.5°	34.0	34.6	36.1	37.0	38.4	40.4	44.1	45.7	51.4	54.6	58.5
85°	18.8	18.3	19.7	19.7	20.6	21.7	22.6	25.0	26.5	30.3	31.3
87.5°	9.6	9.3	9.4	9.1	8.8	9.2	9.2	9.2	9.5	10.3	11.3
90°	19.0	18.0	16.4	14.8	13.2	11.6	9.7	7.5	5.3	3.1	0.9
92.5°	21.4	20.9	20.1	19.3	18.5	17.7	17.4	17.6	17.8	18.0	18.2
95°	36.1	35.2	33.7	32.3	30.9	29.5	32.1	38.7	45.3	51.9	58.5
97.5°	47.8	47.0	43.7	40.5	37.3	34.0	41.8	60.3	79.0	97.6	116.2
100°	53.0	51.4	48.0	44.5	41.1	37.7	49.8	77.2	104.5	132.0	159.4
102.5°	54.9	52.8	81.2	109.7	138.2	166.6	183.7	189.5	195.4	201.1	207.0
105°	57.1	55.0	109.6	164.2	218.9	273.5	297.8	291.8	285.8	279.8	273.8
107.5°	74.6	76.9	142.4	207.9	273.5	339.0	369.4	364.5	359.7	354.9	350.0
110°	137.6	157.6	215.5	273.3	331.1	389.0	415.8	411.6	407.4	403.2	399.0



TEST NUMBER: P331813-830

CATALOG NUMBER: S122RDIW-S675D970U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	324.5	397.6	411.8	426.1	440.5	454.7	460.0	456.3	452.5	448.8	445.1
115°	463.0	555.7	550.7	545.6	540.6	535.6	531.5	528.1	524.7	521.2	517.8
117.5°	593.0	615.5	612.1	608.6	605.2	601.7	598.1	594.3	590.5	586.7	582.9
120°	662.6	660.2	656.6	653.0	649.3	645.7	642.4	639.4	636.4	633.5	630.5
122.5°	704.1	702.7	698.7	694.8	690.9	687.0	683.4	680.2	677.1	673.9	670.8
125°	762.4	761.0	757.2	753.5	749.6	745.8	742.6	740.0	737.4	734.8	732.2
127.5°	815.7	813.6	810.8	807.9	805.1	802.3	799.4	796.5	793.6	790.8	787.9
130°	849.7	847.5	845.3	843.1	840.8	838.7	835.9	832.7	829.6	826.4	823.2
132.5°	883.3	881.4	879.1	876.9	874.8	872.5	870.1	867.3	864.7	862.0	859.2
135°	930.6	928.6	926.7	924.9	923.1	921.3	918.9	915.7	912.5	909.3	906.1
137.5°	974.7	972.7	970.6	968.6	966.6	964.5	962.3	960.2	957.9	955.6	953.4
140°	1003.3	1001.5	999.3	997.1	994.9	992.7	990.8	989.2	987.6	986.0	984.4
142.5°	1029.8	1028.1	1025.7	1023.1	1020.6	1018.0	1016.1	1014.6	1013.2	1011.7	1010.3
145°	1066.9	1065.5	1062.1	1058.7	1055.3	1051.9	1050.3	1050.5	1050.7	1050.8	1051.0
147.5°	1099.3	1098.3	1094.9	1091.5	1088.2	1084.8	1083.5	1084.2	1085.0	1085.7	1086.6
150°	1118.9	1117.7	1114.5	1111.3	1108.1	1104.8	1104.0	1105.4	1106.7	1108.1	1109.6
152.5°	1136.9	1135.7	1132.7	1129.6	1126.5	1123.5	1122.8	1124.4	1125.9	1127.5	1129.1
155°	1161.2	1160.0	1157.6	1155.2	1152.8	1150.4	1150.1	1151.9	1153.7	1155.5	1157.3
157.5°	1181.6	1180.2	1178.5	1176.9	1175.2	1173.5	1173.4	1174.9	1176.4	1178.0	1179.5
160°	1193.6	1192.4	1191.3	1190.1	1188.8	1187.6	1187.6	1188.8	1190.1	1191.3	1192.4
162.5°	1204.6	1203.2	1202.2	1201.2	1200.1	1199.1	1199.2	1200.3	1201.6	1202.8	1204.0
165°	1218.1	1216.7	1216.2	1215.5	1214.9	1214.4	1214.7	1215.9	1217.0	1218.2	1219.5
167.5°	1229.5	1228.1	1227.6	1227.0	1226.4	1225.9	1226.2	1227.4	1228.6	1229.7	1231.0
170°	1235.3	1233.9	1233.5	1233.0	1232.7	1232.3	1232.7	1233.9	1235.1	1236.2	1237.5
172.5°	1239.6	1238.2	1237.7	1237.4	1237.0	1236.6	1237.0	1238.2	1239.3	1240.6	1241.8
175°	1244.3	1242.8	1242.5	1242.1	1241.7	1241.2	1241.8	1243.2	1244.5	1245.9	1247.4
177.5°	1245.1	1244.0	1243.8	1243.6	1243.5	1243.3	1243.8	1244.9	1246.0	1247.2	1248.3
180°	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6



TEST NUMBER: P331813-830

CATALOG NUMBER: S122RDIW-S675D970U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1392.8	1393.9	1401.7	1405.0	1412.0	1414.7	1417.8	1417.0	1417.0	1418.5	1429.4
5°	1395.7	1405.3	1419.8	1433.7	1447.2	1458.8	1466.5	1474.1	1477.1	1491.0	1503.5
7.5°	1390.7	1408.4	1432.3	1453.6	1479.0	1499.0	1515.5	1530.5	1540.7	1560.9	1581.8
10°	1384.2	1409.2	1436.2	1463.6	1498.7	1525.1	1552.1	1572.8	1579.5	1609.9	1627.2
12.5°	1371.1	1404.6	1438.9	1474.3	1508.7	1545.2	1574.8	1595.5	1619.2	1646.4	1678.4
15°	1351.5	1390.0	1434.7	1480.5	1529.5	1573.8	1605.5	1641.6	1667.5	1697.4	1725.3
17.5°	1323.2	1372.8	1429.7	1482.6	1539.4	1587.0	1630.6	1665.3	1683.6	1700.5	1704.7
20°	1301.0	1354.3	1421.3	1483.8	1540.6	1595.4	1638.7	1667.5	1672.4	1672.8	1647.4
22.5°	1276.7	1337.0	1407.0	1471.1	1539.0	1600.1	1633.7	1646.1	1626.9	1594.3	1545.0
25°	1232.2	1301.9	1383.3	1456.3	1530.5	1588.2	1599.8	1578.1	1511.2	1441.0	1352.0
27.5°	1183.8	1262.3	1349.4	1430.8	1509.7	1545.5	1520.5	1442.5	1322.0	1217.3	1090.4
30°	1148.5	1236.5	1322.1	1413.1	1486.2	1501.6	1444.4	1329.4	1188.8	1031.0	904.6
32.5°	1108.1	1200.3	1294.4	1388.5	1449.6	1434.6	1340.0	1198.4	1033.8	878.6	759.0
35°	1050.3	1145.6	1247.1	1341.3	1380.4	1315.4	1173.9	989.7	821.2	676.5	594.2
37.5°	983.6	1087.3	1192.9	1279.5	1276.7	1168.5	975.8	785.6	644.0	558.4	499.8
40°	936.2	1041.1	1155.2	1228.3	1197.0	1056.0	847.3	667.8	564.4	496.1	453.2
42.5°	890.9	996.1	1109.4	1167.5	1113.1	939.8	731.8	591.2	505.9	452.5	417.8
45°	813.6	924.7	1029.6	1061.9	964.7	773.6	591.8	489.7	433.0	393.6	369.5
47.5°	738.0	847.3	943.1	943.7	812.2	627.4	499.2	423.9	375.4	344.9	327.3
50°	691.8	795.8	876.1	863.7	714.4	558.1	446.5	381.5	341.1	317.5	299.3
52.5°	639.9	740.7	810.3	774.7	631.7	491.2	399.2	344.6	311.1	290.6	274.3
55°	564.4	653.8	702.9	649.0	515.3	408.5	337.2	294.5	269.5	252.1	238.2
57.5°	490.1	564.0	594.8	532.2	424.4	338.7	285.3	253.2	228.4	215.9	208.7
60°	443.6	506.6	528.3	459.0	369.0	296.3	252.6	222.7	204.4	196.3	189.1
62.5°	397.8	449.3	458.3	394.7	321.7	259.4	221.8	196.6	184.5	176.6	169.8
65°	330.1	367.1	362.8	311.8	254.5	205.9	178.5	163.1	153.9	142.9	130.8
67.5°	271.7	294.4	280.7	242.5	194.3	160.0	142.1	130.4	119.1	108.7	105.8
70°	234.8	247.8	233.4	198.2	159.3	134.2	119.8	105.8	99.2	96.7	92.4
72.5°	199.3	203.9	188.3	158.2	129.6	111.1	97.1	89.3	85.7	83.6	80.9
75°	149.7	146.3	132.8	109.2	90.0	77.5	73.1	70.2	67.9	65.9	64.5
77.5°	105.1	100.2	88.1	72.8	62.7	56.6	54.1	52.5	51.4	50.4	49.0
80°	78.9	75.5	63.5	51.9	47.6	44.8	43.3	41.4	41.4	40.4	38.9
82.5°	57.8	54.0	43.5	38.1	35.7	33.9	32.9	31.8	31.4	31.6	30.5
85°	30.3	24.5	21.7	20.6	19.2	18.3	18.8	17.8	17.8	17.8	17.3
87.5°	9.9	8.4	8.4	8.5	9.2	9.6	9.5	9.8	10.6	10.4	10.9
90°	3.1	5.3	7.5	9.7	11.6	13.2	14.8	16.4	18.0	19.0	20.0
92.5°	18.0	17.8	17.6	17.4	17.7	18.5	19.3	20.1	20.9	21.4	22.0
95°	51.9	45.3	38.7	32.1	29.5	30.9	32.3	33.7	35.2	36.1	37.1
97.5°	97.6	79.0	60.3	41.8	34.0	37.3	40.5	43.7	47.0	47.8	48.6
100°	132.0	104.5	77.2	49.8	37.7	41.1	44.5	48.0	51.4	53.0	54.6
102.5°	201.1	195.4	189.5	183.7	166.6	138.2	109.7	81.2	52.8	54.9	56.9
105°	279.8	285.8	291.8	297.8	273.5	218.9	164.2	109.6	55.0	57.1	59.4
107.5°	354.9	359.7	364.5	369.4	339.0	273.5	207.9	142.4	76.9	74.6	72.4
110°	403.2	407.4	411.6	415.8	389.0	331.1	273.3	215.5	157.6	137.6	117.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	448.8	452.5	456.3	460.0	454.7	440.5	426.1	411.8	397.6	324.5	251.5
115°	521.2	524.7	528.1	531.5	535.6	540.6	545.6	550.7	555.7	463.0	370.3
117.5°	586.7	590.5	594.3	598.1	601.7	605.2	608.6	612.1	615.5	593.0	570.6
120°	633.5	636.4	639.4	642.4	645.7	649.3	653.0	656.6	660.2	662.6	665.0
122.5°	673.9	677.1	680.2	683.4	687.0	690.9	694.8	698.7	702.7	704.1	705.6
125°	734.8	737.4	740.0	742.6	745.8	749.6	753.5	757.2	761.0	762.4	763.8
127.5°	790.8	793.6	796.5	799.4	802.3	805.1	807.9	810.8	813.6	815.7	817.7
130°	826.4	829.6	832.7	835.9	838.7	840.8	843.1	845.3	847.5	849.7	851.9
132.5°	862.0	864.7	867.3	870.1	872.5	874.8	876.9	879.1	881.4	883.3	885.1
135°	909.3	912.5	915.7	918.9	921.3	923.1	924.9	926.7	928.6	930.6	932.6
137.5°	955.6	957.9	960.2	962.3	964.5	966.6	968.6	970.6	972.7	974.7	976.6
140°	986.0	987.6	989.2	990.8	992.7	994.9	997.1	999.3	1001.5	1003.3	1005.1
142.5°	1011.7	1013.2	1014.6	1016.1	1018.0	1020.6	1023.1	1025.7	1028.1	1029.8	1031.4
145°	1050.8	1050.7	1050.5	1050.3	1051.9	1055.3	1058.7	1062.1	1065.5	1066.9	1068.3
147.5°	1085.7	1085.0	1084.2	1083.5	1084.8	1088.2	1091.5	1094.9	1098.3	1099.3	1100.3
150°	1108.1	1106.7	1105.4	1104.0	1104.8	1108.1	1111.3	1114.5	1117.7	1118.9	1120.1
152.5°	1127.5	1125.9	1124.4	1122.8	1123.5	1126.5	1129.6	1132.7	1135.7	1136.9	1138.1
155°	1155.5	1153.7	1151.9	1150.1	1150.4	1152.8	1155.2	1157.6	1160.0	1161.2	1162.4
157.5°	1178.0	1176.4	1174.9	1173.4	1173.5	1175.2	1176.9	1178.5	1180.2	1181.6	1182.9
160°	1191.3	1190.1	1188.8	1187.6	1187.6	1188.8	1190.1	1191.3	1192.4	1193.6	1194.9
162.5°	1202.8	1201.6	1200.3	1199.2	1199.1	1200.1	1201.2	1202.2	1203.2	1204.6	1206.0
165°	1218.2	1217.0	1215.9	1214.7	1214.4	1214.9	1215.5	1216.2	1216.7	1218.1	1219.6
167.5°	1229.7	1228.6	1227.4	1226.2	1225.9	1226.4	1227.0	1227.6	1228.1	1229.5	1230.9
170°	1236.2	1235.1	1233.9	1232.7	1232.3	1232.7	1233.0	1233.5	1233.9	1235.3	1236.7
172.5°	1240.6	1239.3	1238.2	1237.0	1236.6	1237.0	1237.4	1237.7	1238.2	1239.6	1241.0
175°	1245.9	1244.5	1243.2	1241.8	1241.2	1241.7	1242.1	1242.5	1242.8	1244.3	1245.7
177.5°	1247.2	1246.0	1244.9	1243.8	1243.3	1243.5	1243.6	1243.8	1244.0	1245.1	1246.2
180°	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1433.1	1438.1	1440.5	1440.5	1443.2	1442.0	1440.9
5°	1515.5	1524.7	1526.6	1535.3	1541.5	1539.5	1540.6
7.5°	1597.4	1612.1	1626.6	1633.3	1634.4	1638.2	1639.6
10°	1647.8	1659.9	1682.5	1679.1	1695.9	1705.6	1689.7
12.5°	1696.4	1712.6	1728.2	1732.6	1742.2	1745.2	1739.0
15°	1740.2	1748.9	1749.8	1747.5	1750.3	1747.9	1738.8
17.5°	1699.2	1685.2	1656.7	1643.2	1632.6	1616.7	1610.4
20°	1631.4	1590.1	1542.0	1522.8	1500.2	1455.9	1466.5
22.5°	1485.3	1438.0	1390.0	1333.8	1306.9	1265.0	1262.4
25°	1257.6	1176.4	1086.8	1024.4	987.8	945.9	927.7
27.5°	977.8	875.4	802.1	765.0	731.2	698.0	696.6
30°	793.8	716.9	660.1	628.4	607.7	593.7	596.6
32.5°	669.1	616.4	578.2	551.8	536.5	525.9	525.8
35°	547.1	511.0	486.4	475.3	464.3	456.6	457.0
37.5°	468.2	446.5	432.8	420.6	413.7	409.9	407.8
40°	427.7	409.9	399.4	392.1	386.3	381.1	380.1
42.5°	395.8	381.1	370.4	364.8	359.4	355.6	354.7
45°	351.2	339.2	329.6	323.3	320.9	317.5	317.5
47.5°	312.5	300.6	293.1	289.2	285.0	282.8	282.7
50°	286.3	277.1	270.4	268.0	264.6	263.2	262.7
52.5°	262.8	256.0	251.2	249.5	248.1	246.2	246.6
55°	230.9	227.1	225.2	223.8	221.3	218.4	220.4
57.5°	204.1	200.9	195.7	191.1	188.9	186.9	187.7
60°	185.2	178.5	171.7	166.5	165.0	160.7	160.7
62.5°	161.4	151.9	143.6	140.7	139.2	137.2	136.9
65°	124.1	120.3	118.4	116.4	115.5	115.5	114.5
67.5°	102.8	101.3	99.2	98.7	97.7	97.5	97.2
70°	91.0	89.0	88.0	87.6	86.6	87.1	85.7
72.5°	79.4	77.9	77.7	76.4	75.8	75.9	74.8
75°	62.6	62.6	62.0	61.5	60.6	60.1	60.6
77.5°	48.1	48.2	47.3	47.2	47.1	47.2	46.8
80°	38.5	38.9	38.5	38.0	37.5	38.0	37.5
82.5°	30.4	29.7	29.6	29.5	29.4	29.1	29.0
85°	17.3	17.8	17.3	16.9	16.9	16.9	17.3
87.5°	10.7	10.9	11.1	11.1	11.2	11.3	11.0
90°	21.0	22.1	22.7	23.1	23.5	23.9	24.3
92.5°	22.4	23.0	23.4	23.6	23.8	24.0	24.3
95°	38.2	39.1	39.5	39.3	39.1	38.9	38.7
97.5°	49.4	50.2	50.7	51.0	51.2	51.5	51.7
100°	56.2	57.8	58.7	59.1	59.6	59.9	60.3
102.5°	59.0	61.1	62.4	63.0	63.5	64.1	64.7
105°	61.5	63.7	65.2	66.1	66.8	67.7	68.4
107.5°	70.2	68.0	67.2	68.1	68.8	69.7	70.4
110°	97.6	77.6	68.0	68.7	69.6	70.3	71.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	178.5	105.5	69.3	69.9	70.6	71.3	71.9
115°	277.7	185.0	131.5	117.1	102.6	88.2	73.9
117.5°	548.3	525.8	491.0	443.6	396.2	348.9	301.5
120°	667.3	669.8	657.4	630.5	603.4	576.4	549.4
122.5°	707.0	708.4	706.5	701.3	696.1	690.8	685.6
125°	765.3	766.7	767.6	768.3	768.8	769.4	770.1
127.5°	819.7	821.8	822.8	823.0	823.1	823.2	823.3
130°	854.1	856.3	857.3	857.1	856.9	856.7	856.5
132.5°	887.0	888.9	889.8	889.5	889.3	889.1	888.9
135°	934.5	936.5	937.4	937.0	936.5	936.1	935.8
137.5°	978.5	980.5	981.2	980.5	979.8	979.1	978.5
140°	1006.9	1008.7	1009.1	1008.1	1007.1	1006.1	1005.1
142.5°	1033.1	1034.7	1035.0	1034.1	1033.0	1032.1	1031.0
145°	1069.7	1071.0	1071.3	1070.3	1069.2	1068.3	1067.2
147.5°	1101.4	1102.4	1102.5	1101.6	1100.8	1099.9	1099.1
150°	1121.2	1122.5	1122.6	1121.6	1120.6	1119.6	1118.6
152.5°	1139.3	1140.5	1140.5	1139.2	1137.8	1136.5	1135.2
155°	1163.6	1164.8	1164.6	1163.0	1161.4	1159.8	1158.2
157.5°	1184.3	1185.6	1185.5	1183.9	1182.4	1180.8	1179.3
160°	1196.0	1197.2	1197.1	1195.7	1194.3	1193.0	1191.6
162.5°	1207.3	1208.7	1208.5	1206.7	1205.0	1203.3	1201.6
165°	1221.0	1222.4	1222.4	1221.0	1219.6	1218.1	1216.7
167.5°	1232.3	1233.7	1233.5	1231.7	1229.9	1228.1	1226.3
170°	1238.0	1239.4	1239.3	1237.5	1235.7	1233.9	1232.1
172.5°	1242.4	1243.8	1243.6	1241.8	1240.0	1238.2	1236.4
175°	1247.1	1248.5	1248.2	1246.1	1244.2	1242.2	1240.2
177.5°	1247.3	1248.4	1248.3	1246.8	1245.4	1244.0	1242.6
180°	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6

(END OF REPORT)