

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: P331538-840

Luminaire Tested: **S122DIW-S675D970U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331538-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIW-S675D970U840-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 970 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

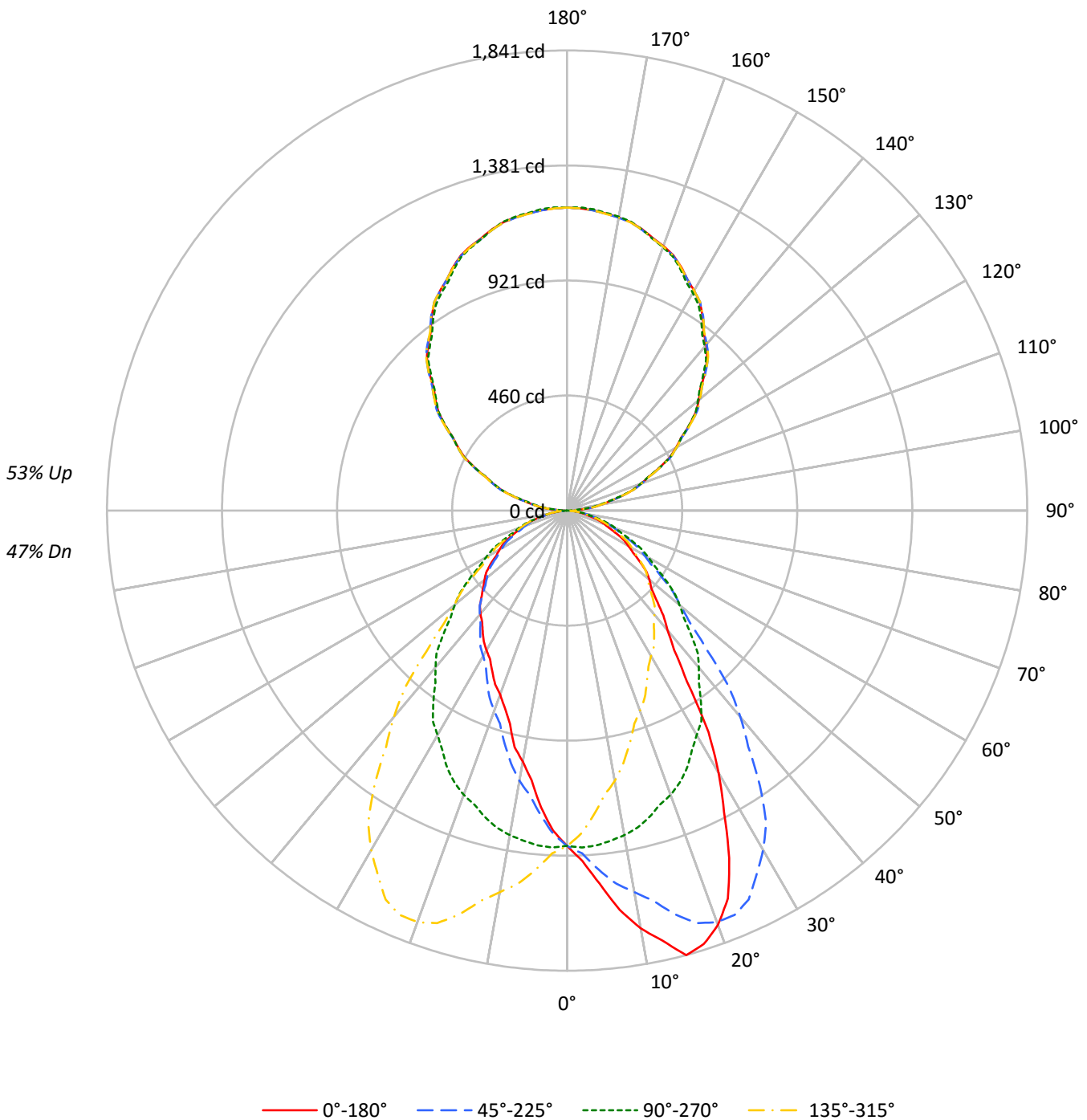
Lumens per Lamp: N/A  
Luminaire Lumens: 6353.4 lumens  
Efficiency: N/A  
Efficacy: 120.8 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 52.6  
Input Voltage (V): 120  
Input Current (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



TEST NUMBER: P331538-840

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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	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	47
1	97	93	90	86	89	86	83	80	72	70	68	59	58	56	48	47	46	40
2	89	82	76	71	82	76	71	66	64	60	57	53	50	48	42	41	39	34
3	82	72	65	60	75	67	61	56	57	52	48	47	44	41	38	36	34	30
4	75	64	57	51	69	60	53	48	51	45	42	42	38	35	34	32	30	26
5	69	58	50	44	63	53	46	41	45	40	36	38	34	31	31	28	26	23
6	64	52	44	38	58	48	41	36	41	36	32	34	30	27	28	25	23	20
7	59	47	39	34	54	44	37	32	37	32	28	31	27	24	26	23	21	18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	32	27	47	36	30	25	31	26	23	27	23	20	22	19	17	15
10	48	36	29	24	44	34	27	23	29	24	20	25	21	18	21	18	16	14

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	21658	21658	21658	21658
5°	24280	21797	19316	21797
10°	27824	21620	16718	21620
15°	30780	21224	14770	21224
20°	30311	20797	13464	20797
25°	27332	20232	12636	20232
30°	22585	19328	12033	19328
35°	16462	18382	11606	18382
40°	13148	17266	11367	17266
45°	11488	15972	11040	15972
50°	10798	14722	10826	14722
55°	9956	13453	10536	13453
60°	9122	12103	10091	12103
65°	8309	10892	9650	10892
70°	7544	9711	9007	9711
75°	6687	8390	7973	8390
80°	5755	6946	6425	6946
85°	5169	5169	3816	5169



TEST NUMBER: P331538-840

CATALOG NUMBER: S122DIW-S675D970U840-4F0-1E-UDD-A1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.7	2.0
10°-20°	371.4	5.8
20°-30°	539.0	8.5
30°-40°	568.8	9.0
40°-50°	503.6	7.9
50°-60°	401.9	6.3
60°-70°	273.2	4.3
70°-80°	140.0	2.2
80°-90°	38.6	0.6
90°-100°	76.8	1.2
100°-110°	238.5	3.8
110°-120°	407.7	6.4
120°-130°	536.2	8.4
130°-140°	601.8	9.5
140°-150°	590.1	9.3
150°-160°	494.9	7.8
160°-170°	328.3	5.2
170°-180°	114.7	1.8
0°-30°	1038.1	16.3
0°-40°	1606.9	25.3
0°-60°	2512.4	39.5
0°-90°	2964.2	46.7
90°-120°	723.1	11.4
90°-150°	2451.2	38.6
90°-180°	3389.0	53.3
0°-180°	6353.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1341	1341	1341	1341	1341	
5°	1498	1345	1192	1345	1498	150
15°	1841	1270	884	1270	1841	508
25°	1534	1136	709	1136	1534	693
35°	835	933	589	933	835	543
45°	503	700	484	700	503	396
55°	354	478	374	478	354	317
65°	218	285	253	285	218	216
75°	107	134	128	134	107	115
85°	28	28	21	28	28	31
90°	35	1	35	1	35	16
95°	63	53	63	53	63	71
105°	227	220	227	220	227	239
115°	409	409	409	409	409	404
125°	597	595	597	595	597	532
135°	779	770	779	770	779	600
145°	945	935	945	935	945	590
155°	1077	1069	1077	1069	1077	496
165°	1164	1163	1164	1163	1164	328
175°	1206	1210	1206	1210	1206	115
180°	1212	1212	1212	1212	1212	



TEST NUMBER: P331538-840

CATALOG NUMBER: S122DIW-S675D970U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1403.2	1403.6	1404.5	1397.9	1397.0	1397.0	1391.3	1386.3	1380.6	1372.7	1373.5
5°	1498.1	1503.8	1505.8	1499.6	1490.4	1489.3	1480.6	1466.1	1452.7	1441.9	1434.2
7.5°	1611.3	1613.6	1608.5	1600.3	1593.5	1581.1	1564.8	1548.8	1526.4	1505.9	1490.7
10°	1697.1	1700.2	1691.4	1679.6	1669.8	1655.4	1631.6	1607.4	1578.0	1549.6	1526.9
12.5°	1762.2	1769.9	1758.7	1757.1	1740.3	1720.5	1692.2	1680.0	1638.6	1599.1	1574.8
15°	1841.4	1840.9	1842.0	1832.2	1819.8	1816.6	1786.8	1754.3	1696.1	1672.8	1632.6
17.5°	1818.6	1826.3	1830.0	1829.9	1829.6	1827.7	1818.1	1797.6	1768.4	1730.7	1684.3
20°	1764.1	1774.4	1775.9	1787.9	1794.5	1803.3	1806.9	1801.2	1783.2	1751.7	1711.5
22.5°	1680.0	1682.8	1687.7	1706.2	1720.7	1742.6	1754.1	1773.2	1766.3	1750.9	1717.3
25°	1534.2	1529.0	1547.1	1556.3	1589.8	1624.9	1650.2	1678.0	1702.7	1717.7	1707.9
27.5°	1359.1	1351.4	1378.4	1403.0	1430.3	1468.2	1507.6	1554.1	1592.8	1641.1	1657.7
30°	1211.4	1216.1	1241.9	1268.2	1309.4	1363.0	1407.3	1458.4	1513.6	1567.7	1605.3
32.5°	1052.3	1070.2	1086.4	1126.7	1163.0	1222.8	1287.8	1351.6	1420.4	1481.9	1540.1
35°	835.2	855.8	878.5	907.9	958.9	1018.1	1081.6	1167.6	1261.5	1345.5	1414.6
37.5°	703.0	699.6	712.7	733.9	775.3	823.0	896.1	981.2	1091.6	1190.3	1287.8
40°	623.8	621.7	631.0	650.6	682.1	717.1	781.0	855.8	958.4	1078.9	1195.0
42.5°	569.4	570.6	575.7	589.6	611.1	640.0	687.8	751.4	845.4	959.0	1083.6
45°	503.1	506.8	512.4	519.2	531.5	555.2	582.0	627.4	701.7	796.5	919.2
47.5°	455.6	455.7	461.4	467.3	474.6	488.0	509.9	538.3	590.7	667.9	773.4
50°	429.9	426.4	430.5	435.0	442.8	452.1	466.6	493.3	528.4	590.8	678.9
52.5°	398.6	398.7	402.4	404.1	411.1	420.3	433.5	452.1	483.8	532.6	605.1
55°	353.7	356.2	358.3	361.3	367.6	374.3	384.6	397.0	421.7	458.3	511.9
57.5°	311.3	312.1	314.3	320.1	324.1	330.2	340.0	351.2	367.4	394.5	434.7
60°	282.5	282.5	286.6	289.2	294.4	300.5	308.3	319.1	333.6	355.7	388.2
62.5°	256.1	255.7	257.3	261.6	265.5	271.2	279.0	288.2	301.7	321.4	348.2
65°	217.5	216.5	219.6	220.7	224.8	230.5	236.6	246.4	257.2	271.7	295.4
67.5°	180.5	181.7	183.3	185.3	187.5	193.5	197.6	204.6	213.7	225.7	241.8
70°	159.8	159.8	159.8	161.4	164.4	167.5	171.7	177.3	186.1	196.4	210.9
72.5°	136.7	138.4	140.0	139.1	143.0	144.8	149.8	153.0	161.4	167.9	180.8
75°	107.2	107.2	107.2	109.8	111.4	112.9	116.0	119.1	123.2	131.5	138.1
77.5°	80.0	79.8	80.3	80.9	82.6	84.4	85.3	88.2	92.0	95.7	101.5
80°	61.9	62.9	63.4	64.4	64.4	65.4	65.9	69.6	72.2	74.7	78.4
82.5°	47.9	48.1	48.2	48.4	48.8	49.4	50.7	51.9	52.8	54.9	57.8
85°	27.9	27.4	27.4	28.4	27.9	27.9	28.9	29.9	29.9	30.4	31.9
87.5°	17.7	17.7	18.0	17.6	17.5	18.0	18.0	17.7	18.2	18.7	18.1
90°	34.7	34.5	34.3	34.1	33.8	33.9	34.4	34.8	35.3	35.7	30.8
92.5°	33.1	33.1	33.0	33.0	32.9	32.9	32.8	32.7	32.6	32.5	31.3
95°	63.4	63.8	64.3	64.7	65.2	65.4	65.4	65.4	65.4	65.4	65.0
97.5°	109.9	109.9	110.0	110.0	110.1	110.1	110.1	110.1	110.1	110.1	109.2
100°	140.2	140.4	140.6	140.8	141.1	141.2	141.2	141.2	141.2	141.2	140.5
102.5°	174.5	174.7	174.9	175.2	175.4	175.4	175.2	175.1	174.9	174.7	173.8
105°	227.1	227.1	227.1	227.1	227.1	226.8	226.4	225.9	225.5	225.0	224.6
107.5°	276.6	277.6	278.6	279.7	280.7	281.1	281.0	280.8	280.6	280.4	280.4
110°	315.1	315.7	316.4	317.1	317.8	318.1	318.1	318.1	318.1	318.1	318.1



TEST NUMBER: P331538-840

CATALOG NUMBER: S122DIW-S675D970U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	351.8	352.3	352.8	353.4	353.9	354.4	355.0	355.5	356.0	356.6	356.8
115°	409.1	409.8	410.5	411.2	411.8	412.3	412.5	412.7	413.0	413.2	413.6
117.5°	463.7	464.4	465.1	465.9	466.5	467.1	467.7	468.2	468.8	469.3	470.6
120°	502.2	502.9	503.6	504.2	504.9	505.3	505.3	505.3	505.3	505.3	507.2
122.5°	539.9	540.4	540.9	541.4	541.9	542.4	542.9	543.5	544.0	544.5	545.8
125°	597.3	597.5	597.8	598.0	598.2	598.7	599.4	600.1	600.8	601.5	602.1
127.5°	649.7	650.5	651.2	651.9	652.6	653.4	654.2	655.0	655.8	656.7	657.5
130°	687.3	688.2	689.1	690.0	690.9	691.7	692.2	692.6	693.1	693.5	694.0
132.5°	723.4	724.1	724.8	725.6	726.3	727.1	728.1	729.1	730.1	731.1	731.0
135°	779.4	780.1	780.7	781.4	782.1	782.5	782.8	783.0	783.3	783.5	783.0
137.5°	830.1	831.0	831.9	832.8	833.7	834.4	834.6	834.7	834.9	835.1	834.5
140°	865.4	866.3	867.2	868.1	869.0	869.4	869.4	869.4	869.4	869.4	868.3
142.5°	897.3	898.2	899.1	900.0	900.9	901.2	901.1	900.9	900.7	900.5	899.8
145°	945.1	946.0	947.0	947.9	948.8	949.1	948.9	948.7	948.4	948.2	946.8
147.5°	987.8	988.8	989.6	990.5	991.3	991.5	991.0	990.5	990.0	989.5	988.6
150°	1015.7	1016.3	1017.0	1017.7	1018.4	1018.4	1017.7	1017.0	1016.3	1015.7	1014.8
152.5°	1041.9	1042.7	1043.6	1044.5	1045.3	1045.3	1044.5	1043.6	1042.7	1041.9	1040.8
155°	1077.0	1077.7	1078.4	1079.1	1079.7	1079.5	1078.4	1077.3	1076.1	1075.0	1074.3
157.5°	1107.3	1108.4	1109.5	1110.6	1111.7	1111.5	1109.9	1108.4	1106.8	1105.3	1104.9
160°	1126.2	1127.1	1128.0	1128.9	1129.8	1129.5	1128.2	1126.8	1125.5	1124.1	1123.9
162.5°	1142.6	1143.6	1144.7	1145.8	1146.9	1146.7	1145.1	1143.6	1142.1	1140.4	1140.2
165°	1164.0	1165.2	1166.3	1167.4	1168.5	1168.3	1166.7	1165.2	1163.6	1162.0	1162.0
167.5°	1181.6	1182.8	1184.0	1185.2	1186.3	1186.1	1184.6	1183.0	1181.3	1179.7	1179.8
170°	1190.6	1191.9	1193.4	1194.7	1196.1	1196.0	1194.4	1192.8	1191.1	1189.6	1189.8
172.5°	1198.0	1199.3	1200.7	1202.0	1203.5	1203.3	1201.7	1200.1	1198.5	1196.9	1197.2
175°	1206.0	1207.3	1208.7	1210.0	1211.4	1211.2	1209.7	1208.1	1206.5	1204.9	1205.4
177.5°	1209.6	1210.7	1211.8	1212.8	1214.0	1214.0	1212.8	1211.8	1210.7	1209.6	1210.0
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0



TEST NUMBER: P331538-840

CATALOG NUMBER: S122DIW-S675D970U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1376.4	1373.1	1371.1	1363.6	1357.1	1350.5	1348.4	1349.2	1340.2	1331.5	1327.8
5°	1430.1	1419.8	1410.0	1396.0	1379.6	1361.5	1352.2	1344.9	1327.0	1307.4	1296.1
7.5°	1478.1	1463.4	1444.5	1418.3	1394.3	1365.9	1347.9	1331.9	1305.5	1277.9	1260.9
10°	1507.4	1487.2	1463.0	1431.1	1401.7	1367.2	1342.9	1318.7	1287.8	1254.8	1234.2
12.5°	1532.6	1505.4	1481.6	1440.6	1405.8	1362.6	1333.8	1299.7	1267.2	1228.0	1207.8
15°	1592.5	1542.5	1497.0	1450.7	1407.9	1347.6	1315.7	1269.7	1226.9	1178.5	1155.3
17.5°	1638.7	1582.6	1511.1	1452.1	1402.2	1335.4	1288.5	1233.6	1183.0	1127.5	1096.0
20°	1665.2	1600.6	1523.9	1453.8	1393.9	1317.7	1266.7	1210.4	1151.1	1088.7	1054.7
22.5°	1680.8	1613.1	1537.1	1447.5	1377.5	1303.2	1239.0	1177.4	1117.3	1050.1	1014.3
25°	1685.8	1623.9	1543.5	1442.4	1356.9	1272.8	1195.5	1135.7	1063.0	1000.1	948.1
27.5°	1661.2	1616.9	1539.5	1432.7	1333.0	1234.8	1148.6	1080.9	1004.1	935.8	883.5
30°	1631.1	1605.3	1530.0	1422.8	1314.0	1208.4	1113.5	1036.7	960.4	891.3	837.7
32.5°	1584.5	1578.9	1512.8	1408.8	1293.8	1175.0	1076.8	999.2	914.6	846.8	795.7
35°	1493.0	1517.7	1475.9	1377.5	1255.8	1127.4	1021.3	932.6	845.0	780.0	732.1
37.5°	1370.3	1431.7	1420.8	1331.6	1204.5	1075.7	958.5	865.8	782.2	716.7	669.6
40°	1285.7	1364.0	1375.4	1296.6	1168.2	1035.7	911.4	819.2	737.7	677.9	630.5
42.5°	1195.0	1286.6	1317.7	1254.5	1128.5	993.6	869.4	773.8	693.2	635.0	593.0
45°	1042.9	1164.1	1220.2	1184.2	1062.5	924.3	796.5	699.5	626.3	571.7	539.3
47.5°	900.7	1033.1	1108.6	1095.9	989.0	852.1	725.8	632.8	561.5	517.9	488.8
50°	800.1	936.1	1027.4	1031.6	936.1	800.6	673.8	586.1	520.7	480.0	456.3
52.5°	712.7	842.5	942.1	963.9	877.2	747.0	627.2	540.0	482.3	444.8	423.6
55°	598.5	708.3	818.6	858.9	789.2	665.5	554.7	477.9	423.7	398.0	379.4
57.5°	497.6	589.2	691.1	735.5	692.6	586.6	482.7	416.1	372.1	349.5	335.3
60°	444.3	516.5	607.2	660.4	623.3	529.0	438.2	374.8	338.7	318.6	305.2
62.5°	394.9	458.8	535.5	584.1	563.9	474.9	393.6	337.7	306.5	287.6	278.0
65°	325.8	376.4	435.7	480.5	467.1	399.5	333.1	285.1	260.3	245.4	237.6
67.5°	268.3	304.8	345.9	385.2	374.4	326.5	273.2	235.8	217.3	204.5	199.9
70°	232.0	259.8	296.4	327.9	319.1	279.9	237.6	205.7	189.8	178.8	174.2
72.5°	197.3	220.3	248.1	273.9	267.9	235.4	200.2	176.0	163.7	153.7	149.9
75°	149.0	166.5	183.5	200.6	198.9	173.7	153.1	134.5	124.7	117.0	115.4
77.5°	110.0	119.8	131.4	141.5	138.7	124.2	108.1	97.5	90.2	85.0	84.2
80°	84.0	89.7	98.0	105.1	101.6	95.3	82.5	74.7	69.6	64.4	62.4
82.5°	60.9	66.7	71.6	75.4	72.7	67.0	59.0	53.7	50.6	47.2	46.3
85°	31.9	35.0	37.2	38.2	37.2	33.5	29.9	27.9	25.2	23.7	23.2
87.5°	17.6	16.6	15.6	15.6	13.8	13.2	11.1	9.3	9.4	9.6	9.3
90°	25.8	20.8	15.8	11.9	9.2	6.5	3.7	1.0	3.7	6.5	9.2
92.5°	30.2	29.0	27.8	26.3	24.2	22.2	20.2	18.2	20.2	22.2	24.2
95°	64.5	64.1	63.6	62.3	60.0	57.8	55.4	53.2	55.4	57.8	60.0
97.5°	108.4	107.4	106.6	105.1	103.2	101.2	99.2	97.1	99.2	101.2	103.2
100°	139.8	139.1	138.5	137.1	135.3	133.5	131.7	129.9	131.7	133.5	135.3
102.5°	173.0	172.1	171.3	170.1	168.6	167.1	165.7	164.3	165.7	167.1	168.6
105°	224.1	223.7	223.2	222.7	222.0	221.3	220.6	219.9	220.6	221.3	222.0
107.5°	280.4	280.4	280.4	279.9	278.9	277.9	277.0	276.0	277.0	277.9	278.9
110°	318.1	318.1	318.1	317.4	316.1	314.7	313.4	311.9	313.4	314.7	316.1





TEST NUMBER: P331538-840

CATALOG NUMBER: S122DIW-S675D970U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	356.9	357.1	357.3	356.7	355.4	354.0	352.6	351.2	352.6	354.0	355.4
115°	414.1	414.5	415.1	414.5	413.2	411.8	410.5	409.1	410.5	411.8	413.2
117.5°	471.8	473.1	474.3	474.1	472.3	470.5	468.7	466.9	468.7	470.5	472.3
120°	509.0	510.8	512.6	512.6	510.8	509.0	507.2	505.3	507.2	509.0	510.8
122.5°	547.1	548.4	549.7	549.2	547.0	544.8	542.7	540.5	542.7	544.8	547.0
125°	602.8	603.5	604.2	603.5	601.5	599.4	597.3	595.3	597.3	599.4	601.5
127.5°	658.3	659.1	659.9	659.0	656.5	653.9	651.3	648.7	651.3	653.9	656.5
130°	694.4	694.9	695.3	694.1	691.2	688.1	685.2	682.3	685.2	688.1	691.2
132.5°	730.9	730.8	730.7	729.5	727.1	724.7	722.3	719.8	722.3	724.7	727.1
135°	782.5	782.1	781.6	780.2	777.7	775.2	772.7	770.2	772.7	775.2	777.7
137.5°	833.8	833.2	832.7	831.3	829.3	827.3	825.3	823.1	825.3	827.3	829.3
140°	867.2	866.1	864.8	863.2	861.2	859.2	857.2	855.1	857.2	859.2	861.2
142.5°	899.0	898.2	897.5	896.1	893.9	891.9	889.9	887.9	889.9	891.9	893.9
145°	945.4	944.1	942.7	941.3	939.7	938.1	936.4	934.8	936.4	938.1	939.7
147.5°	987.6	986.7	985.8	984.4	982.5	980.7	978.8	976.8	978.8	980.7	982.5
150°	1013.9	1013.0	1012.1	1010.9	1009.6	1008.1	1006.8	1005.4	1006.8	1008.1	1009.6
152.5°	1039.7	1038.6	1037.5	1036.3	1034.9	1033.6	1032.2	1030.9	1032.2	1033.6	1034.9
155°	1073.7	1073.0	1072.3	1071.6	1071.0	1070.3	1069.5	1068.8	1069.5	1070.3	1071.0
157.5°	1104.5	1104.1	1103.7	1103.2	1102.8	1102.3	1101.9	1101.4	1101.9	1102.3	1102.8
160°	1123.7	1123.5	1123.2	1122.9	1122.4	1122.0	1121.5	1121.1	1121.5	1122.0	1122.4
162.5°	1140.0	1139.8	1139.5	1139.4	1139.3	1139.2	1139.1	1139.0	1139.1	1139.2	1139.3
165°	1162.0	1162.0	1162.0	1162.1	1162.3	1162.6	1162.8	1163.0	1162.8	1162.6	1162.3
167.5°	1179.8	1179.9	1179.9	1180.3	1180.9	1181.6	1182.3	1183.1	1182.3	1181.6	1180.9
170°	1190.0	1190.2	1190.5	1190.9	1191.6	1192.3	1193.0	1193.7	1193.0	1192.3	1191.6
172.5°	1197.4	1197.6	1197.8	1198.3	1199.0	1199.6	1200.3	1201.0	1200.3	1199.6	1199.0
175°	1205.8	1206.3	1206.7	1207.3	1208.0	1208.7	1209.3	1210.0	1209.3	1208.7	1208.0
177.5°	1210.3	1210.7	1211.0	1211.5	1212.0	1212.6	1213.2	1213.8	1213.2	1212.6	1212.0
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0



TEST NUMBER: P331538-840

CATALOG NUMBER: S122DIW-S675D970U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1323.6	1321.2	1312.5	1308.0	1300.5	1293.5	1289.0	1291.1	1292.7	1291.9	1290.6
5°	1285.7	1275.9	1260.9	1248.1	1238.8	1221.7	1214.6	1210.9	1207.9	1204.3	1200.6
7.5°	1240.5	1225.1	1203.7	1185.3	1167.9	1146.8	1134.8	1127.5	1120.1	1112.0	1104.8
10°	1208.4	1186.7	1164.1	1138.2	1117.6	1098.5	1081.6	1070.3	1060.0	1050.2	1042.9
12.5°	1174.6	1149.6	1121.6	1086.3	1063.6	1036.3	1033.7	1013.7	997.6	991.6	983.1
15°	1120.7	1085.7	1050.2	1008.4	990.3	965.5	950.1	934.6	920.7	910.9	908.4
17.5°	1059.6	1014.2	978.9	948.9	919.3	893.9	879.7	867.3	855.9	842.7	841.0
20°	1013.0	973.8	935.1	908.9	878.5	852.6	835.2	822.7	812.9	805.3	798.5
22.5°	968.9	925.9	890.6	861.8	831.8	811.0	797.2	785.3	777.1	768.5	762.2
25°	898.1	864.5	825.9	793.3	768.6	755.3	743.9	733.6	728.4	722.8	715.6
27.5°	836.1	798.8	762.7	737.5	715.8	703.9	695.8	688.8	684.0	680.6	676.6
30°	792.3	754.7	726.4	701.7	683.6	671.8	666.6	662.5	656.8	654.7	652.7
32.5°	750.3	716.4	692.2	670.7	653.5	645.7	641.0	637.3	632.9	630.8	626.6
35°	690.7	662.5	638.7	626.8	613.0	606.2	602.7	597.4	593.4	591.3	590.8
37.5°	634.8	610.2	594.6	579.4	573.5	569.4	564.4	560.9	559.7	559.4	558.9
40°	598.5	578.5	564.5	552.1	549.6	543.3	539.3	536.1	536.1	536.6	536.1
42.5°	565.5	547.4	535.2	524.5	521.5	517.8	513.6	513.4	514.3	516.0	514.3
45°	515.5	502.6	493.8	488.7	483.0	479.4	478.9	480.5	481.0	481.5	483.0
47.5°	469.5	461.0	453.0	447.4	444.8	444.2	443.6	446.4	448.8	449.7	452.1
50°	442.3	432.5	425.9	422.2	420.1	419.1	420.1	423.2	425.3	427.9	429.4
52.5°	411.8	404.9	400.2	397.5	396.7	397.3	397.5	401.0	404.2	405.2	406.0
55°	369.6	364.5	363.5	358.8	360.8	360.3	362.9	365.0	368.1	371.1	371.7
57.5°	327.6	323.5	320.6	321.0	321.6	324.0	326.1	329.7	333.1	336.3	336.6
60°	299.5	297.4	295.9	295.9	296.9	300.0	302.7	306.2	308.3	310.3	311.8
62.5°	274.0	271.9	270.3	271.1	273.9	275.7	278.7	280.6	282.7	284.8	285.5
65°	233.5	232.5	234.1	235.1	235.6	238.1	241.8	243.3	245.4	246.4	250.0
67.5°	196.3	196.5	196.3	197.7	200.8	201.4	204.8	208.3	208.7	210.8	213.1
70°	171.2	172.2	173.2	174.2	176.8	177.8	180.5	182.0	184.0	185.6	187.1
72.5°	148.0	148.2	149.3	149.1	151.3	153.5	155.7	157.2	159.3	161.3	162.8
75°	113.9	113.9	114.9	115.4	118.1	120.7	120.1	121.2	123.2	125.2	126.3
77.5°	83.2	82.1	83.2	83.7	84.5	86.7	87.2	88.6	90.9	90.2	91.4
80°	63.4	61.9	63.4	63.9	63.9	66.6	66.6	67.6	69.1	67.6	69.1
82.5°	45.2	44.5	45.6	45.7	46.6	46.7	47.6	47.8	49.3	48.6	49.3
85°	22.7	22.2	22.7	22.2	22.7	23.2	23.2	22.7	22.7	23.7	22.2
87.5°	9.4	9.8	10.3	11.3	11.9	12.5	12.0	11.9	11.8	10.9	10.9
90°	11.9	15.8	20.8	25.8	30.8	35.7	35.3	34.8	34.4	33.9	33.8
92.5°	26.3	27.8	29.0	30.2	31.3	32.5	32.6	32.7	32.8	32.9	32.9
95°	62.3	63.6	64.1	64.5	65.0	65.4	65.4	65.4	65.4	65.4	65.2
97.5°	105.1	106.6	107.4	108.4	109.2	110.1	110.1	110.1	110.1	110.1	110.1
100°	137.1	138.5	139.1	139.8	140.5	141.2	141.2	141.2	141.2	141.2	141.1
102.5°	170.1	171.3	172.1	173.0	173.8	174.7	174.9	175.1	175.2	175.4	175.4
105°	222.7	223.2	223.7	224.1	224.6	225.0	225.5	225.9	226.4	226.8	227.1
107.5°	279.9	280.4	280.4	280.4	280.4	280.4	280.6	280.8	281.0	281.1	280.7
110°	317.4	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	317.8



TEST NUMBER: P331538-840

CATALOG NUMBER: S122DIW-S675D970U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	356.7	357.3	357.1	356.9	356.8	356.6	356.0	355.5	355.0	354.4	353.9
115°	414.5	415.1	414.5	414.1	413.6	413.2	413.0	412.7	412.5	412.3	411.8
117.5°	474.1	474.3	473.1	471.8	470.6	469.3	468.8	468.2	467.7	467.1	466.5
120°	512.6	512.6	510.8	509.0	507.2	505.3	505.3	505.3	505.3	505.3	504.9
122.5°	549.2	549.7	548.4	547.1	545.8	544.5	544.0	543.5	542.9	542.4	541.9
125°	603.5	604.2	603.5	602.8	602.1	601.5	600.8	600.1	599.4	598.7	598.2
127.5°	659.0	659.9	659.1	658.3	657.5	656.7	655.8	655.0	654.2	653.4	652.6
130°	694.1	695.3	694.9	694.4	694.0	693.5	693.1	692.6	692.2	691.7	690.9
132.5°	729.5	730.7	730.8	730.9	731.0	731.1	730.1	729.1	728.1	727.1	726.3
135°	780.2	781.6	782.1	782.5	783.0	783.5	783.3	783.0	782.8	782.5	782.1
137.5°	831.3	832.7	833.2	833.8	834.5	835.1	834.9	834.7	834.6	834.4	833.7
140°	863.2	864.8	866.1	867.2	868.3	869.4	869.4	869.4	869.4	869.4	869.0
142.5°	896.1	897.5	898.2	899.0	899.8	900.5	900.7	900.9	901.1	901.2	900.9
145°	941.3	942.7	944.1	945.4	946.8	948.2	948.4	948.7	948.9	949.1	948.8
147.5°	984.4	985.8	986.7	987.6	988.6	989.5	990.0	990.5	991.0	991.5	991.3
150°	1010.9	1012.1	1013.0	1013.9	1014.8	1015.7	1016.3	1017.0	1017.7	1018.4	1018.4
152.5°	1036.3	1037.5	1038.6	1039.7	1040.8	1041.9	1042.7	1043.6	1044.5	1045.3	1045.3
155°	1071.6	1072.3	1073.0	1073.7	1074.3	1075.0	1076.1	1077.3	1078.4	1079.5	1079.7
157.5°	1103.2	1103.7	1104.1	1104.5	1104.9	1105.3	1106.8	1108.4	1109.9	1111.5	1111.7
160°	1122.9	1123.2	1123.5	1123.7	1123.9	1124.1	1125.5	1126.8	1128.2	1129.5	1129.8
162.5°	1139.4	1139.5	1139.8	1140.0	1140.2	1140.4	1142.1	1143.6	1145.1	1146.7	1146.9
165°	1162.1	1162.0	1162.0	1162.0	1162.0	1162.0	1163.6	1165.2	1166.7	1168.3	1168.5
167.5°	1180.3	1179.9	1179.9	1179.8	1179.8	1179.7	1181.3	1183.0	1184.6	1186.1	1186.3
170°	1190.9	1190.5	1190.2	1190.0	1189.8	1189.6	1191.1	1192.8	1194.4	1196.0	1196.1
172.5°	1198.3	1197.8	1197.6	1197.4	1197.2	1196.9	1198.5	1200.1	1201.7	1203.3	1203.5
175°	1207.3	1206.7	1206.3	1205.8	1205.4	1204.9	1206.5	1208.1	1209.7	1211.2	1211.4
177.5°	1211.5	1211.0	1210.7	1210.3	1210.0	1209.6	1210.7	1211.8	1212.8	1214.0	1214.0
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0



TEST NUMBER: P331538-840

CATALOG NUMBER: S122DIW-S675D970U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1286.6	1285.7	1285.7	1282.0	1285.7	1285.7	1286.6	1290.6	1291.9	1292.7	1291.1
5°	1193.5	1191.8	1189.3	1191.8	1189.3	1191.8	1193.5	1200.6	1204.3	1207.9	1210.9
7.5°	1101.4	1095.2	1094.3	1088.1	1094.3	1095.2	1101.4	1104.8	1112.0	1120.1	1127.5
10°	1034.1	1030.0	1029.5	1019.7	1029.5	1030.0	1034.1	1042.9	1050.2	1060.0	1070.3
12.5°	983.0	973.1	975.0	969.4	975.0	973.1	983.0	983.1	991.6	997.6	1013.7
15°	894.4	894.4	892.3	883.6	892.3	894.4	894.4	908.4	910.9	920.7	934.6
17.5°	830.8	829.8	824.9	827.3	824.9	829.8	830.8	841.0	842.7	855.9	867.3
20°	792.8	789.8	783.6	783.6	783.6	789.8	792.8	798.5	805.3	812.9	822.7
22.5°	757.0	756.8	750.2	752.2	750.2	756.8	757.0	762.2	768.5	777.1	785.3
25°	715.0	710.9	707.8	709.3	707.8	710.9	715.0	715.6	722.8	728.4	733.6
27.5°	675.2	673.0	672.8	668.5	672.8	673.0	675.2	676.6	680.6	684.0	688.8
30°	652.2	647.0	648.0	645.4	648.0	647.0	652.2	652.7	654.7	656.8	662.5
32.5°	625.7	623.9	622.9	620.7	622.9	623.9	625.7	626.6	630.8	632.9	637.3
35°	589.8	590.3	587.7	588.8	587.7	590.3	589.8	590.8	591.3	593.4	597.4
37.5°	558.4	560.0	558.8	559.1	558.8	560.0	558.4	558.9	559.4	559.7	560.9
40°	537.7	537.7	537.7	539.3	537.7	537.7	537.7	536.1	536.6	536.1	536.1
42.5°	517.9	517.1	516.2	516.1	516.2	517.1	517.9	514.3	516.0	514.3	513.4
45°	484.0	485.6	486.1	483.5	486.1	485.6	484.0	483.0	481.5	481.0	480.5
47.5°	453.4	453.6	453.4	455.8	453.4	453.6	453.4	452.1	449.7	448.8	446.4
50°	432.0	431.0	432.0	431.0	432.0	431.0	432.0	429.4	427.9	425.3	423.2
52.5°	409.3	409.5	408.9	408.7	408.9	409.5	409.3	406.0	405.2	404.2	401.0
55°	373.8	374.8	374.3	374.3	374.3	374.8	373.8	371.7	371.1	368.1	365.0
57.5°	337.0	337.9	338.6	336.3	338.6	337.9	337.0	336.6	336.3	333.1	329.7
60°	311.3	314.0	313.5	312.5	313.5	314.0	311.3	311.8	310.3	308.3	306.2
62.5°	287.9	288.8	288.7	288.5	288.7	288.8	287.9	285.5	284.8	282.7	280.6
65°	251.6	252.6	251.1	252.6	251.1	252.6	251.6	250.0	246.4	245.4	243.3
67.5°	212.5	212.8	214.0	214.7	214.0	212.8	212.5	213.1	210.8	208.7	208.3
70°	188.1	187.6	189.1	190.8	189.1	187.6	188.1	187.1	185.6	184.0	182.0
72.5°	162.6	163.7	163.2	164.3	163.2	163.7	162.6	162.8	161.3	159.3	157.2
75°	125.2	126.8	126.3	127.8	126.3	126.8	125.2	126.3	125.2	123.2	121.2
77.5°	90.5	90.7	90.5	91.4	90.5	90.7	90.5	91.4	90.2	90.9	88.6
80°	69.1	68.1	67.1	69.1	67.1	68.1	69.1	69.1	67.6	69.1	67.6
82.5°	48.1	48.7	47.7	47.7	47.7	48.7	48.1	49.3	48.6	49.3	47.8
85°	22.2	21.6	20.6	20.6	20.6	21.6	22.2	22.2	23.7	22.7	22.7
87.5°	10.9	10.6	10.6	10.3	10.6	10.6	10.9	10.9	10.9	11.8	11.9
90°	34.1	34.3	34.5	34.7	34.5	34.3	34.1	33.8	33.9	34.4	34.8
92.5°	33.0	33.0	33.1	33.1	33.1	33.0	33.0	32.9	32.9	32.8	32.7
95°	64.7	64.3	63.8	63.4	63.8	64.3	64.7	65.2	65.4	65.4	65.4
97.5°	110.0	110.0	109.9	109.9	109.9	110.0	110.0	110.1	110.1	110.1	110.1
100°	140.8	140.6	140.4	140.2	140.4	140.6	140.8	141.1	141.2	141.2	141.2
102.5°	175.2	174.9	174.7	174.5	174.7	174.9	175.2	175.4	175.4	175.2	175.1
105°	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	226.8	226.4	225.9
107.5°	279.7	278.6	277.6	276.6	277.6	278.6	279.7	280.7	281.1	281.0	280.8
110°	317.1	316.4	315.7	315.1	315.7	316.4	317.1	317.8	318.1	318.1	318.1



TEST NUMBER: P331538-840

CATALOG NUMBER: S122DIW-S675D970U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	353.4	352.8	352.3	351.8	352.3	352.8	353.4	353.9	354.4	355.0	355.5
115°	411.2	410.5	409.8	409.1	409.8	410.5	411.2	411.8	412.3	412.5	412.7
117.5°	465.9	465.1	464.4	463.7	464.4	465.1	465.9	466.5	467.1	467.7	468.2
120°	504.2	503.6	502.9	502.2	502.9	503.6	504.2	504.9	505.3	505.3	505.3
122.5°	541.4	540.9	540.4	539.9	540.4	540.9	541.4	541.9	542.4	542.9	543.5
125°	598.0	597.8	597.5	597.3	597.5	597.8	598.0	598.2	598.7	599.4	600.1
127.5°	651.9	651.2	650.5	649.7	650.5	651.2	651.9	652.6	653.4	654.2	655.0
130°	690.0	689.1	688.2	687.3	688.2	689.1	690.0	690.9	691.7	692.2	692.6
132.5°	725.6	724.8	724.1	723.4	724.1	724.8	725.6	726.3	727.1	728.1	729.1
135°	781.4	780.7	780.1	779.4	780.1	780.7	781.4	782.1	782.5	782.8	783.0
137.5°	832.8	831.9	831.0	830.1	831.0	831.9	832.8	833.7	834.4	834.6	834.7
140°	868.1	867.2	866.3	865.4	866.3	867.2	868.1	869.0	869.4	869.4	869.4
142.5°	900.0	899.1	898.2	897.3	898.2	899.1	900.0	900.9	901.2	901.1	900.9
145°	947.9	947.0	946.0	945.1	946.0	947.0	947.9	948.8	949.1	948.9	948.7
147.5°	990.5	989.6	988.8	987.8	988.8	989.6	990.5	991.3	991.5	991.0	990.5
150°	1017.7	1017.0	1016.3	1015.7	1016.3	1017.0	1017.7	1018.4	1018.4	1017.7	1017.0
152.5°	1044.5	1043.6	1042.7	1041.9	1042.7	1043.6	1044.5	1045.3	1045.3	1044.5	1043.6
155°	1079.1	1078.4	1077.7	1077.0	1077.7	1078.4	1079.1	1079.7	1079.5	1078.4	1077.3
157.5°	1110.6	1109.5	1108.4	1107.3	1108.4	1109.5	1110.6	1111.7	1111.5	1109.9	1108.4
160°	1128.9	1128.0	1127.1	1126.2	1127.1	1128.0	1128.9	1129.8	1129.5	1128.2	1126.8
162.5°	1145.8	1144.7	1143.6	1142.6	1143.6	1144.7	1145.8	1146.9	1146.7	1145.1	1143.6
165°	1167.4	1166.3	1165.2	1164.0	1165.2	1166.3	1167.4	1168.5	1168.3	1166.7	1165.2
167.5°	1185.2	1184.0	1182.8	1181.6	1182.8	1184.0	1185.2	1186.3	1186.1	1184.6	1183.0
170°	1194.7	1193.4	1191.9	1190.6	1191.9	1193.4	1194.7	1196.1	1196.0	1194.4	1192.8
172.5°	1202.0	1200.7	1199.3	1198.0	1199.3	1200.7	1202.0	1203.5	1203.3	1201.7	1200.1
175°	1210.0	1208.7	1207.3	1206.0	1207.3	1208.7	1210.0	1211.4	1211.2	1209.7	1208.1
177.5°	1212.8	1211.8	1210.7	1209.6	1210.7	1211.8	1212.8	1214.0	1214.0	1212.8	1211.8
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0



TEST NUMBER: P331538-840

CATALOG NUMBER: S122DIW-S675D970U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1289.0	1293.5	1300.5	1308.0	1312.5	1321.2	1323.6	1327.8	1331.5	1340.2	1349.2
5°	1214.6	1221.7	1238.8	1248.1	1260.9	1275.9	1285.7	1296.1	1307.4	1327.0	1344.9
7.5°	1134.8	1146.8	1167.9	1185.3	1203.7	1225.1	1240.5	1260.9	1277.9	1305.5	1331.9
10°	1081.6	1098.5	1117.6	1138.2	1164.1	1186.7	1208.4	1234.2	1254.8	1287.8	1318.7
12.5°	1033.7	1036.3	1063.6	1086.3	1121.6	1149.6	1174.6	1207.8	1228.0	1267.2	1299.7
15°	950.1	965.5	990.3	1008.4	1050.2	1085.7	1120.7	1155.3	1178.5	1226.9	1269.7
17.5°	879.7	893.9	919.3	948.9	978.9	1014.2	1059.6	1096.0	1127.5	1183.0	1233.6
20°	835.2	852.6	878.5	908.9	935.1	973.8	1013.0	1054.7	1088.7	1151.1	1210.4
22.5°	797.2	811.0	831.8	861.8	890.6	925.9	968.9	1014.3	1050.1	1117.3	1177.4
25°	743.9	755.3	768.6	793.3	825.9	864.5	898.1	948.1	1000.1	1063.0	1135.7
27.5°	695.8	703.9	715.8	737.5	762.7	798.8	836.1	883.5	935.8	1004.1	1080.9
30°	666.6	671.8	683.6	701.7	726.4	754.7	792.3	837.7	891.3	960.4	1036.7
32.5°	641.0	645.7	653.5	670.7	692.2	716.4	750.3	795.7	846.8	914.6	999.2
35°	602.7	606.2	613.0	626.8	638.7	662.5	690.7	732.1	780.0	845.0	932.6
37.5°	564.4	569.4	573.5	579.4	594.6	610.2	634.8	669.6	716.7	782.2	865.8
40°	539.3	543.3	549.6	552.1	564.5	578.5	598.5	630.5	677.9	737.7	819.2
42.5°	513.6	517.8	521.5	524.5	535.2	547.4	565.5	593.0	635.0	693.2	773.8
45°	478.9	479.4	483.0	488.7	493.8	502.6	515.5	539.3	571.7	626.3	699.5
47.5°	443.6	444.2	444.8	447.4	453.0	461.0	469.5	488.8	517.9	561.5	632.8
50°	420.1	419.1	420.1	422.2	425.9	432.5	442.3	456.3	480.0	520.7	586.1
52.5°	397.5	397.3	396.7	397.5	400.2	404.9	411.8	423.6	444.8	482.3	540.0
55°	362.9	360.3	360.8	358.8	363.5	364.5	369.6	379.4	398.0	423.7	477.9
57.5°	326.1	324.0	321.6	321.0	320.6	323.5	327.6	335.3	349.5	372.1	416.1
60°	302.7	300.0	296.9	295.9	295.9	297.4	299.5	305.2	318.6	338.7	374.8
62.5°	278.7	275.7	273.9	271.1	270.3	271.9	274.0	278.0	287.6	306.5	337.7
65°	241.8	238.1	235.6	235.1	234.1	232.5	233.5	237.6	245.4	260.3	285.1
67.5°	204.8	201.4	200.8	197.7	196.3	196.5	196.3	199.9	204.5	217.3	235.8
70°	180.5	177.8	176.8	174.2	173.2	172.2	171.2	174.2	178.8	189.8	205.7
72.5°	155.7	153.5	151.3	149.1	149.3	148.2	148.0	149.9	153.7	163.7	176.0
75°	120.1	120.7	118.1	115.4	114.9	113.9	113.9	115.4	117.0	124.7	134.5
77.5°	87.2	86.7	84.5	83.7	83.2	82.1	83.2	84.2	85.0	90.2	97.5
80°	66.6	66.6	63.9	63.9	63.4	61.9	63.4	62.4	64.4	69.6	74.7
82.5°	47.6	46.7	46.6	45.7	45.6	44.5	45.2	46.3	47.2	50.6	53.7
85°	23.2	23.2	22.7	22.2	22.7	22.2	22.7	23.2	23.7	25.2	27.9
87.5°	12.0	12.5	11.9	11.3	10.3	9.8	9.4	9.3	9.6	9.4	9.3
90°	35.3	35.7	30.8	25.8	20.8	15.8	11.9	9.2	6.5	3.7	1.0
92.5°	32.6	32.5	31.3	30.2	29.0	27.8	26.3	24.2	22.2	20.2	18.2
95°	65.4	65.4	65.0	64.5	64.1	63.6	62.3	60.0	57.8	55.4	53.2
97.5°	110.1	110.1	109.2	108.4	107.4	106.6	105.1	103.2	101.2	99.2	97.1
100°	141.2	141.2	140.5	139.8	139.1	138.5	137.1	135.3	133.5	131.7	129.9
102.5°	174.9	174.7	173.8	173.0	172.1	171.3	170.1	168.6	167.1	165.7	164.3
105°	225.5	225.0	224.6	224.1	223.7	223.2	222.7	222.0	221.3	220.6	219.9
107.5°	280.6	280.4	280.4	280.4	280.4	280.4	279.9	278.9	277.9	277.0	276.0
110°	318.1	318.1	318.1	318.1	318.1	318.1	317.4	316.1	314.7	313.4	311.9



TEST NUMBER: P331538-840

CATALOG NUMBER: S122DIW-S675D970U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	356.0	356.6	356.8	356.9	357.1	357.3	356.7	355.4	354.0	352.6	351.2
115°	413.0	413.2	413.6	414.1	414.5	415.1	414.5	413.2	411.8	410.5	409.1
117.5°	468.8	469.3	470.6	471.8	473.1	474.3	474.1	472.3	470.5	468.7	466.9
120°	505.3	505.3	507.2	509.0	510.8	512.6	512.6	510.8	509.0	507.2	505.3
122.5°	544.0	544.5	545.8	547.1	548.4	549.7	549.2	547.0	544.8	542.7	540.5
125°	600.8	601.5	602.1	602.8	603.5	604.2	603.5	601.5	599.4	597.3	595.3
127.5°	655.8	656.7	657.5	658.3	659.1	659.9	659.0	656.5	653.9	651.3	648.7
130°	693.1	693.5	694.0	694.4	694.9	695.3	694.1	691.2	688.1	685.2	682.3
132.5°	730.1	731.1	731.0	730.9	730.8	730.7	729.5	727.1	724.7	722.3	719.8
135°	783.3	783.5	783.0	782.5	782.1	781.6	780.2	777.7	775.2	772.7	770.2
137.5°	834.9	835.1	834.5	833.8	833.2	832.7	831.3	829.3	827.3	825.3	823.1
140°	869.4	869.4	868.3	867.2	866.1	864.8	863.2	861.2	859.2	857.2	855.1
142.5°	900.7	900.5	899.8	899.0	898.2	897.5	896.1	893.9	891.9	889.9	887.9
145°	948.4	948.2	946.8	945.4	944.1	942.7	941.3	939.7	938.1	936.4	934.8
147.5°	990.0	989.5	988.6	987.6	986.7	985.8	984.4	982.5	980.7	978.8	976.8
150°	1016.3	1015.7	1014.8	1013.9	1013.0	1012.1	1010.9	1009.6	1008.1	1006.8	1005.4
152.5°	1042.7	1041.9	1040.8	1039.7	1038.6	1037.5	1036.3	1034.9	1033.6	1032.2	1030.9
155°	1076.1	1075.0	1074.3	1073.7	1073.0	1072.3	1071.6	1071.0	1070.3	1069.5	1068.8
157.5°	1106.8	1105.3	1104.9	1104.5	1104.1	1103.7	1103.2	1102.8	1102.3	1101.9	1101.4
160°	1125.5	1124.1	1123.9	1123.7	1123.5	1123.2	1122.9	1122.4	1122.0	1121.5	1121.1
162.5°	1142.1	1140.4	1140.2	1140.0	1139.8	1139.5	1139.4	1139.3	1139.2	1139.1	1139.0
165°	1163.6	1162.0	1162.0	1162.0	1162.0	1162.0	1162.1	1162.3	1162.6	1162.8	1163.0
167.5°	1181.3	1179.7	1179.8	1179.8	1179.9	1179.9	1180.3	1180.9	1181.6	1182.3	1183.1
170°	1191.1	1189.6	1189.8	1190.0	1190.2	1190.5	1190.9	1191.6	1192.3	1193.0	1193.7
172.5°	1198.5	1196.9	1197.2	1197.4	1197.6	1197.8	1198.3	1199.0	1199.6	1200.3	1201.0
175°	1206.5	1204.9	1205.4	1205.8	1206.3	1206.7	1207.3	1208.0	1208.7	1209.3	1210.0
177.5°	1210.7	1209.6	1210.0	1210.3	1210.7	1211.0	1211.5	1212.0	1212.6	1213.2	1213.8
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0



TEST NUMBER: P331538-840

CATALOG NUMBER: S122DIW-S675D970U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1348.4	1350.5	1357.1	1363.6	1371.1	1373.1	1376.4	1373.5	1372.7	1380.6	1386.3
5°	1352.2	1361.5	1379.6	1396.0	1410.0	1419.8	1430.1	1434.2	1441.9	1452.7	1466.1
7.5°	1347.9	1365.9	1394.3	1418.3	1444.5	1463.4	1478.1	1490.7	1505.9	1526.4	1548.8
10°	1342.9	1367.2	1401.7	1431.1	1463.0	1487.2	1507.4	1526.9	1549.6	1578.0	1607.4
12.5°	1333.8	1362.6	1405.8	1440.6	1481.6	1505.4	1532.6	1574.8	1599.1	1638.6	1680.0
15°	1315.7	1347.6	1407.9	1450.7	1497.0	1542.5	1592.5	1632.6	1672.8	1696.1	1754.3
17.5°	1288.5	1335.4	1402.2	1452.1	1511.1	1582.6	1638.7	1684.3	1730.7	1768.4	1797.6
20°	1266.7	1317.7	1393.9	1453.8	1523.9	1600.6	1665.2	1711.5	1751.7	1783.2	1801.2
22.5°	1239.0	1303.2	1377.5	1447.5	1537.1	1613.1	1680.8	1717.3	1750.9	1766.3	1773.2
25°	1195.5	1272.8	1356.9	1442.4	1543.5	1623.9	1685.8	1707.9	1717.7	1702.7	1678.0
27.5°	1148.6	1234.8	1333.0	1432.7	1539.5	1616.9	1661.2	1657.7	1641.1	1592.8	1554.1
30°	1113.5	1208.4	1314.0	1422.8	1530.0	1605.3	1631.1	1605.3	1567.7	1513.6	1458.4
32.5°	1076.8	1175.0	1293.8	1408.8	1512.8	1578.9	1584.5	1540.1	1481.9	1420.4	1351.6
35°	1021.3	1127.4	1255.8	1377.5	1475.9	1517.7	1493.0	1414.6	1345.5	1261.5	1167.6
37.5°	958.5	1075.7	1204.5	1331.6	1420.8	1431.7	1370.3	1287.8	1190.3	1091.6	981.2
40°	911.4	1035.7	1168.2	1296.6	1375.4	1364.0	1285.7	1195.0	1078.9	958.4	855.8
42.5°	869.4	993.6	1128.5	1254.5	1317.7	1286.6	1195.0	1083.6	959.0	845.4	751.4
45°	796.5	924.3	1062.5	1184.2	1220.2	1164.1	1042.9	919.2	796.5	701.7	627.4
47.5°	725.8	852.1	989.0	1095.9	1108.6	1033.1	900.7	773.4	667.9	590.7	538.3
50°	673.8	800.6	936.1	1031.6	1027.4	936.1	800.1	678.9	590.8	528.4	493.3
52.5°	627.2	747.0	877.2	963.9	942.1	842.5	712.7	605.1	532.6	483.8	452.1
55°	554.7	665.5	789.2	858.9	818.6	708.3	598.5	511.9	458.3	421.7	397.0
57.5°	482.7	586.6	692.6	735.5	691.1	589.2	497.6	434.7	394.5	367.4	351.2
60°	438.2	529.0	623.3	660.4	607.2	516.5	444.3	388.2	355.7	333.6	319.1
62.5°	393.6	474.9	563.9	584.1	535.5	458.8	394.9	348.2	321.4	301.7	288.2
65°	333.1	399.5	467.1	480.5	435.7	376.4	325.8	295.4	271.7	257.2	246.4
67.5°	273.2	326.5	374.4	385.2	345.9	304.8	268.3	241.8	225.7	213.7	204.6
70°	237.6	279.9	319.1	327.9	296.4	259.8	232.0	210.9	196.4	186.1	177.3
72.5°	200.2	235.4	267.9	273.9	248.1	220.3	197.3	180.8	167.9	161.4	153.0
75°	153.1	173.7	198.9	200.6	183.5	166.5	149.0	138.1	131.5	123.2	119.1
77.5°	108.1	124.2	138.7	141.5	131.4	119.8	110.0	101.5	95.7	92.0	88.2
80°	82.5	95.3	101.6	105.1	98.0	89.7	84.0	78.4	74.7	72.2	69.6
82.5°	59.0	67.0	72.7	75.4	71.6	66.7	60.9	57.8	54.9	52.8	51.9
85°	29.9	33.5	37.2	38.2	37.2	35.0	31.9	31.9	30.4	29.9	29.9
87.5°	11.1	13.2	13.8	15.6	15.6	16.6	17.6	18.1	18.7	18.2	17.7
90°	3.7	6.5	9.2	11.9	15.8	20.8	25.8	30.8	35.7	35.3	34.8
92.5°	20.2	22.2	24.2	26.3	27.8	29.0	30.2	31.3	32.5	32.6	32.7
95°	55.4	57.8	60.0	62.3	63.6	64.1	64.5	65.0	65.4	65.4	65.4
97.5°	99.2	101.2	103.2	105.1	106.6	107.4	108.4	109.2	110.1	110.1	110.1
100°	131.7	133.5	135.3	137.1	138.5	139.1	139.8	140.5	141.2	141.2	141.2
102.5°	165.7	167.1	168.6	170.1	171.3	172.1	173.0	173.8	174.7	174.9	175.1
105°	220.6	221.3	222.0	222.7	223.2	223.7	224.1	224.6	225.0	225.5	225.9
107.5°	277.0	277.9	278.9	279.9	280.4	280.4	280.4	280.4	280.4	280.6	280.8
110°	313.4	314.7	316.1	317.4	318.1	318.1	318.1	318.1	318.1	318.1	318.1





TEST NUMBER: P331538-840

CATALOG NUMBER: S122DIW-S675D970U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	352.6	354.0	355.4	356.7	357.3	357.1	356.9	356.8	356.6	356.0	355.5
115°	410.5	411.8	413.2	414.5	415.1	414.5	414.1	413.6	413.2	413.0	412.7
117.5°	468.7	470.5	472.3	474.1	474.3	473.1	471.8	470.6	469.3	468.8	468.2
120°	507.2	509.0	510.8	512.6	512.6	510.8	509.0	507.2	505.3	505.3	505.3
122.5°	542.7	544.8	547.0	549.2	549.7	548.4	547.1	545.8	544.5	544.0	543.5
125°	597.3	599.4	601.5	603.5	604.2	603.5	602.8	602.1	601.5	600.8	600.1
127.5°	651.3	653.9	656.5	659.0	659.9	659.1	658.3	657.5	656.7	655.8	655.0
130°	685.2	688.1	691.2	694.1	695.3	694.9	694.4	694.0	693.5	693.1	692.6
132.5°	722.3	724.7	727.1	729.5	730.7	730.8	730.9	731.0	731.1	730.1	729.1
135°	772.7	775.2	777.7	780.2	781.6	782.1	782.5	783.0	783.5	783.3	783.0
137.5°	825.3	827.3	829.3	831.3	832.7	833.2	833.8	834.5	835.1	834.9	834.7
140°	857.2	859.2	861.2	863.2	864.8	866.1	867.2	868.3	869.4	869.4	869.4
142.5°	889.9	891.9	893.9	896.1	897.5	898.2	899.0	899.8	900.5	900.7	900.9
145°	936.4	938.1	939.7	941.3	942.7	944.1	945.4	946.8	948.2	948.4	948.7
147.5°	978.8	980.7	982.5	984.4	985.8	986.7	987.6	988.6	989.5	990.0	990.5
150°	1006.8	1008.1	1009.6	1010.9	1012.1	1013.0	1013.9	1014.8	1015.7	1016.3	1017.0
152.5°	1032.2	1033.6	1034.9	1036.3	1037.5	1038.6	1039.7	1040.8	1041.9	1042.7	1043.6
155°	1069.5	1070.3	1071.0	1071.6	1072.3	1073.0	1073.7	1074.3	1075.0	1076.1	1077.3
157.5°	1101.9	1102.3	1102.8	1103.2	1103.7	1104.1	1104.5	1104.9	1105.3	1106.8	1108.4
160°	1121.5	1122.0	1122.4	1122.9	1123.2	1123.5	1123.7	1123.9	1124.1	1125.5	1126.8
162.5°	1139.1	1139.2	1139.3	1139.4	1139.5	1139.8	1140.0	1140.2	1140.4	1142.1	1143.6
165°	1162.8	1162.6	1162.3	1162.1	1162.0	1162.0	1162.0	1162.0	1162.0	1163.6	1165.2
167.5°	1182.3	1181.6	1180.9	1180.3	1179.9	1179.9	1179.8	1179.8	1179.7	1181.3	1183.0
170°	1193.0	1192.3	1191.6	1190.9	1190.5	1190.2	1190.0	1189.8	1189.6	1191.1	1192.8
172.5°	1200.3	1199.6	1199.0	1198.3	1197.8	1197.6	1197.4	1197.2	1196.9	1198.5	1200.1
175°	1209.3	1208.7	1208.0	1207.3	1206.7	1206.3	1205.8	1205.4	1204.9	1206.5	1208.1
177.5°	1213.2	1212.6	1212.0	1211.5	1211.0	1210.7	1210.3	1210.0	1209.6	1210.7	1211.8
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0



TEST NUMBER: P331538-840

CATALOG NUMBER: S122DIW-S675D970U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1391.3	1397.0	1397.0	1397.9	1404.5	1403.6	1403.2
5°	1480.6	1489.3	1490.4	1499.6	1505.8	1503.8	1498.1
7.5°	1564.8	1581.1	1593.5	1600.3	1608.5	1613.6	1611.3
10°	1631.6	1655.4	1669.8	1679.6	1691.4	1700.2	1697.1
12.5°	1692.2	1720.5	1740.3	1757.1	1758.7	1769.9	1762.2
15°	1786.8	1816.6	1819.8	1832.2	1842.0	1840.9	1841.4
17.5°	1818.1	1827.7	1829.6	1829.9	1830.0	1826.3	1818.6
20°	1806.9	1803.3	1794.5	1787.9	1775.9	1774.4	1764.1
22.5°	1754.1	1742.6	1720.7	1706.2	1687.7	1682.8	1680.0
25°	1650.2	1624.9	1589.8	1556.3	1547.1	1529.0	1534.2
27.5°	1507.6	1468.2	1430.3	1403.0	1378.4	1351.4	1359.1
30°	1407.3	1363.0	1309.4	1268.2	1241.9	1216.1	1211.4
32.5°	1287.8	1222.8	1163.0	1126.7	1086.4	1070.2	1052.3
35°	1081.6	1018.1	958.9	907.9	878.5	855.8	835.2
37.5°	896.1	823.0	775.3	733.9	712.7	699.6	703.0
40°	781.0	717.1	682.1	650.6	631.0	621.7	623.8
42.5°	687.8	640.0	611.1	589.6	575.7	570.6	569.4
45°	582.0	555.2	531.5	519.2	512.4	506.8	503.1
47.5°	509.9	488.0	474.6	467.3	461.4	455.7	455.6
50°	466.6	452.1	442.8	435.0	430.5	426.4	429.9
52.5°	433.5	420.3	411.1	404.1	402.4	398.7	398.6
55°	384.6	374.3	367.6	361.3	358.3	356.2	353.7
57.5°	340.0	330.2	324.1	320.1	314.3	312.1	311.3
60°	308.3	300.5	294.4	289.2	286.6	282.5	282.5
62.5°	279.0	271.2	265.5	261.6	257.3	255.7	256.1
65°	236.6	230.5	224.8	220.7	219.6	216.5	217.5
67.5°	197.6	193.5	187.5	185.3	183.3	181.7	180.5
70°	171.7	167.5	164.4	161.4	159.8	159.8	159.8
72.5°	149.8	144.8	143.0	139.1	140.0	138.4	136.7
75°	116.0	112.9	111.4	109.8	107.2	107.2	107.2
77.5°	85.3	84.4	82.6	80.9	80.3	79.8	80.0
80°	65.9	65.4	64.4	64.4	63.4	62.9	61.9
82.5°	50.7	49.4	48.8	48.4	48.2	48.1	47.9
85°	28.9	27.9	27.9	28.4	27.4	27.4	27.9
87.5°	18.0	18.0	17.5	17.6	18.0	17.7	17.7
90°	34.4	33.9	33.8	34.1	34.3	34.5	34.7
92.5°	32.8	32.9	32.9	33.0	33.0	33.1	33.1
95°	65.4	65.4	65.2	64.7	64.3	63.8	63.4
97.5°	110.1	110.1	110.1	110.0	110.0	109.9	109.9
100°	141.2	141.2	141.1	140.8	140.6	140.4	140.2
102.5°	175.2	175.4	175.4	175.2	174.9	174.7	174.5
105°	226.4	226.8	227.1	227.1	227.1	227.1	227.1
107.5°	281.0	281.1	280.7	279.7	278.6	277.6	276.6
110°	318.1	318.1	317.8	317.1	316.4	315.7	315.1



TEST NUMBER: P331538-840

CATALOG NUMBER: S122DIW-S675D970U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	355.0	354.4	353.9	353.4	352.8	352.3	351.8
115°	412.5	412.3	411.8	411.2	410.5	409.8	409.1
117.5°	467.7	467.1	466.5	465.9	465.1	464.4	463.7
120°	505.3	505.3	504.9	504.2	503.6	502.9	502.2
122.5°	542.9	542.4	541.9	541.4	540.9	540.4	539.9
125°	599.4	598.7	598.2	598.0	597.8	597.5	597.3
127.5°	654.2	653.4	652.6	651.9	651.2	650.5	649.7
130°	692.2	691.7	690.9	690.0	689.1	688.2	687.3
132.5°	728.1	727.1	726.3	725.6	724.8	724.1	723.4
135°	782.8	782.5	782.1	781.4	780.7	780.1	779.4
137.5°	834.6	834.4	833.7	832.8	831.9	831.0	830.1
140°	869.4	869.4	869.0	868.1	867.2	866.3	865.4
142.5°	901.1	901.2	900.9	900.0	899.1	898.2	897.3
145°	948.9	949.1	948.8	947.9	947.0	946.0	945.1
147.5°	991.0	991.5	991.3	990.5	989.6	988.8	987.8
150°	1017.7	1018.4	1018.4	1017.7	1017.0	1016.3	1015.7
152.5°	1044.5	1045.3	1045.3	1044.5	1043.6	1042.7	1041.9
155°	1078.4	1079.5	1079.7	1079.1	1078.4	1077.7	1077.0
157.5°	1109.9	1111.5	1111.7	1110.6	1109.5	1108.4	1107.3
160°	1128.2	1129.5	1129.8	1128.9	1128.0	1127.1	1126.2
162.5°	1145.1	1146.7	1146.9	1145.8	1144.7	1143.6	1142.6
165°	1166.7	1168.3	1168.5	1167.4	1166.3	1165.2	1164.0
167.5°	1184.6	1186.1	1186.3	1185.2	1184.0	1182.8	1181.6
170°	1194.4	1196.0	1196.1	1194.7	1193.4	1191.9	1190.6
172.5°	1201.7	1203.3	1203.5	1202.0	1200.7	1199.3	1198.0
175°	1209.7	1211.2	1211.4	1210.0	1208.7	1207.3	1206.0
177.5°	1212.8	1214.0	1214.0	1212.8	1211.8	1210.7	1209.6
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0

(END OF REPORT)