

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: P331367-935

Luminaire Tested: **SA2XXDIP-C675D1080U935-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331367-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-C675D1080U935-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1080 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

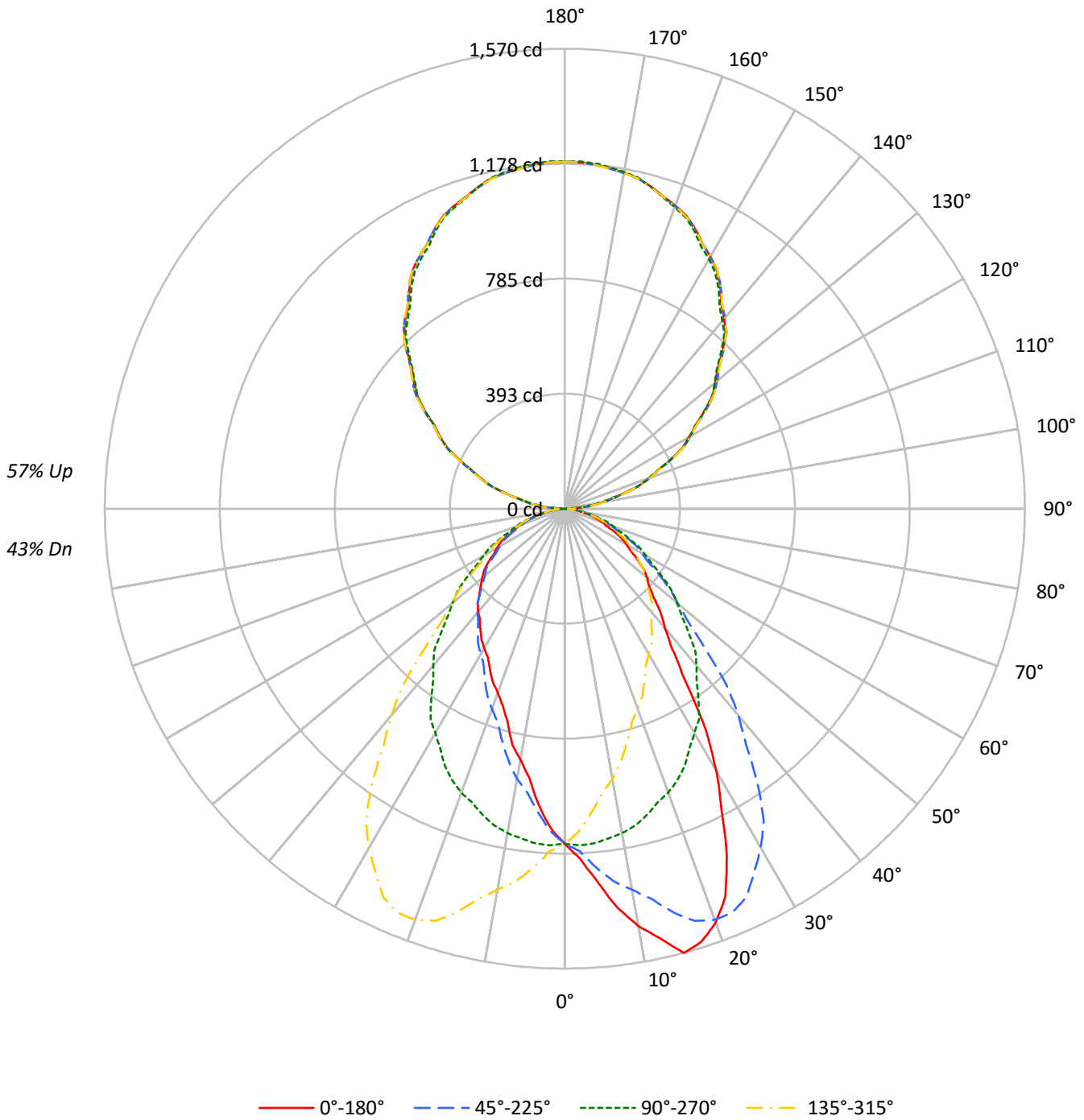
Lumens per Lamp: N/A  
Luminaire Lumens: 5841.7 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 56.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50	43				43
1	97	93	89	86	88	85	82	79	70	68	66	57	56	54	45	44	43				37	
2	88	81	75	70	81	75	70	65	62	58	55	51	48	46	40	38	37				32	
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	34	32				27	
4	74	64	56	50	68	59	52	47	49	44	40	40	37	34	32	30	28				24	
5	68	57	49	43	62	53	46	41	44	39	35	36	33	30	29	27	24				21	
6	63	51	43	38	57	47	40	35	40	35	31	33	29	26	27	24	22				19	
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	22	19				17	
8	54	42	35	29	49	39	32	28	33	28	24	28	24	21	23	20	18				15	
9	50	39	31	26	46	36	29	25	30	25	22	26	22	19	21	18	16				14	
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	19	17	15				13	

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

	0°	90°	180°	270°
0°	18466	18466	18466	18466
5°	20702	18585	16470	18585
10°	23722	18433	14254	18433
15°	26242	18094	12593	18094
20°	25844	17732	11478	17732
25°	23302	17250	10774	17250
30°	19257	16479	10260	16479
35°	14034	15672	9895	15672
40°	11209	14720	9691	14720
45°	9796	13618	9412	13618
50°	9206	12552	9231	12552
55°	8487	11468	8982	11468
60°	7776	10317	8603	10317
65°	7087	9287	8225	9287
70°	6430	8280	7676	8280
75°	5702	7155	6800	7155
80°	4909	5923	5477	5923
85°	4409	4409	3260	4409



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CATALOG NUMBER: SA2XXDIP-C675D1080U935-4F0-1E-UDD-A1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.9	1.9
10°-20°	316.6	5.4
20°-30°	459.5	7.9
30°-40°	484.9	8.3
40°-50°	429.4	7.3
50°-60°	342.6	5.9
60°-70°	232.9	4.0
70°-80°	119.4	2.0
80°-90°	33.5	0.6
90°-100°	75.1	1.3
100°-110°	233.2	4.0
110°-120°	398.7	6.8
120°-130°	524.3	9.0
130°-140°	588.5	10.1
140°-150°	577.0	9.9
150°-160°	484.0	8.3
160°-170°	321.0	5.5
170°-180°	112.2	1.9
0°-30°	885.1	15.2
0°-40°	1370.0	23.5
0°-60°	2142.0	36.7
0°-90°	2527.8	43.3
90°-120°	707.0	12.1
90°-150°	2396.8	41.0
90°-180°	3314.0	56.7
0°-180°	5841.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1144	1144	1144	1144	1144	
5°	1277	1147	1016	1147	1277	128
15°	1570	1082	753	1082	1570	433
25°	1308	968	605	968	1308	591
35°	712	795	502	795	712	463
45°	429	596	412	596	429	337
55°	302	407	319	407	302	270
65°	186	243	215	243	186	184
75°	91	115	109	115	91	98
85°	24	24	18	24	24	27
90°	34	1	34	1	34	16
95°	62	52	62	52	62	69
105°	222	215	222	215	222	234
115°	400	400	400	400	400	395
125°	584	582	584	582	584	521
135°	762	753	762	753	762	587
145°	924	914	924	914	924	577
155°	1053	1045	1053	1045	1053	485
165°	1138	1137	1138	1137	1138	321
175°	1179	1183	1179	1183	1179	112
180°	1185	1185	1185	1185	1185	



TEST NUMBER: P331367-935

CATALOG NUMBER: SA2XXDIP-C675D1080U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1196.4	1196.7	1197.5	1191.8	1191.1	1191.1	1186.2	1182.0	1177.1	1170.4	1171.0
5°	1277.3	1282.1	1283.8	1278.6	1270.7	1269.8	1262.3	1250.0	1238.5	1229.3	1222.8
7.5°	1373.8	1375.7	1371.4	1364.4	1358.6	1348.1	1334.1	1320.5	1301.4	1283.9	1270.9
10°	1446.9	1449.6	1442.1	1432.0	1423.7	1411.4	1391.1	1370.5	1345.4	1321.2	1301.8
12.5°	1502.4	1509.0	1499.4	1498.1	1483.8	1466.9	1442.8	1432.4	1397.1	1363.4	1342.6
15°	1569.9	1569.5	1570.5	1562.1	1551.5	1548.9	1523.4	1495.7	1446.0	1426.2	1392.0
17.5°	1550.5	1557.1	1560.2	1560.1	1559.9	1558.2	1550.1	1532.6	1507.7	1475.6	1436.0
20°	1504.1	1512.9	1514.2	1524.3	1530.0	1537.5	1540.5	1535.7	1520.4	1493.5	1459.2
22.5°	1432.4	1434.8	1438.9	1454.7	1467.1	1485.7	1495.6	1511.8	1505.9	1492.8	1464.1
25°	1308.0	1303.6	1319.1	1326.9	1355.5	1385.3	1407.0	1430.6	1451.7	1464.5	1456.1
27.5°	1158.7	1152.2	1175.2	1196.2	1219.4	1251.8	1285.4	1325.0	1358.0	1399.2	1413.3
30°	1032.9	1036.8	1058.9	1081.2	1116.4	1162.1	1199.9	1243.5	1290.5	1336.6	1368.6
32.5°	897.2	912.4	926.3	960.6	991.5	1042.6	1097.9	1152.4	1211.0	1263.4	1313.1
35°	712.0	729.6	749.0	774.0	817.5	868.1	922.1	995.5	1075.6	1147.2	1206.1
37.5°	599.3	596.5	607.6	625.7	661.0	701.7	764.0	836.5	930.7	1014.9	1097.9
40°	531.8	530.0	538.0	554.7	581.5	611.4	665.9	729.6	817.1	919.9	1018.8
42.5°	485.4	486.5	490.9	502.7	521.0	545.6	586.4	640.7	720.7	817.6	923.9
45°	429.0	432.0	436.9	442.6	453.1	473.4	496.2	534.9	598.2	679.1	783.7
47.5°	388.4	388.5	393.4	398.4	404.7	416.0	434.7	458.9	503.6	569.5	659.4
50°	366.5	363.5	367.0	370.9	377.5	385.5	397.8	420.6	450.5	503.7	578.9
52.5°	339.8	339.9	343.1	344.6	350.5	358.3	369.6	385.5	412.5	454.1	515.9
55°	301.5	303.7	305.5	308.1	313.4	319.1	327.9	338.5	359.6	390.7	436.4
57.5°	265.4	266.1	267.9	272.9	276.3	281.5	289.9	299.5	313.2	336.3	370.7
60°	240.8	240.8	244.4	246.6	251.0	256.2	262.9	272.1	284.4	303.2	331.0
62.5°	218.3	218.0	219.4	223.0	226.4	231.3	237.9	245.7	257.3	274.1	296.9
65°	185.5	184.6	187.3	188.1	191.7	196.5	201.7	210.1	219.3	231.6	251.8
67.5°	153.9	154.9	156.3	158.0	159.9	165.0	168.5	174.4	182.2	192.4	206.1
70°	136.2	136.2	136.2	137.6	140.2	142.8	146.4	151.2	158.7	167.5	179.8
72.5°	116.6	118.0	119.3	118.6	121.9	123.5	127.7	130.4	137.6	143.2	154.1
75°	91.4	91.4	91.4	93.6	95.0	96.3	98.9	101.5	105.0	112.1	117.8
77.5°	68.2	68.0	68.4	69.0	70.4	72.0	72.8	75.2	78.4	81.6	86.5
80°	52.8	53.6	54.1	54.9	54.9	55.8	56.2	59.3	61.6	63.7	66.8
82.5°	40.8	41.0	41.1	41.2	41.6	42.1	43.2	44.3	45.0	46.8	49.2
85°	23.8	23.3	23.3	24.2	23.8	23.8	24.6	25.5	25.5	25.9	27.2
87.5°	15.9	15.9	16.2	15.8	15.8	16.1	16.2	15.9	16.4	16.9	16.2
90°	34.0	33.8	33.6	33.3	33.1	33.2	33.7	34.1	34.5	35.0	30.1
92.5°	32.4	32.4	32.3	32.3	32.2	32.2	32.0	31.9	31.9	31.8	30.7
95°	62.0	62.4	62.9	63.4	63.8	64.0	64.0	64.0	64.0	64.0	63.5
97.5°	107.5	107.5	107.5	107.5	107.6	107.6	107.6	107.6	107.6	107.6	106.8
100°	137.0	137.2	137.5	137.7	137.9	138.0	138.0	138.0	138.0	138.0	137.3
102.5°	170.7	170.8	171.1	171.3	171.5	171.5	171.3	171.2	171.0	170.8	170.0
105°	222.1	222.1	222.1	222.1	222.1	221.8	221.4	220.9	220.5	220.0	219.6
107.5°	270.4	271.5	272.5	273.5	274.5	274.9	274.7	274.6	274.4	274.2	274.2
110°	308.1	308.7	309.4	310.0	310.7	311.1	311.1	311.1	311.1	311.1	311.1



TEST NUMBER: P331367-935

CATALOG NUMBER: SA2XXDIP-C675D1080U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	344.1	344.6	345.0	345.5	346.0	346.6	347.1	347.6	348.1	348.6	348.8
115°	400.0	400.7	401.4	402.1	402.7	403.1	403.4	403.6	403.8	404.1	404.5
117.5°	453.5	454.1	454.8	455.5	456.2	456.8	457.3	457.8	458.3	458.8	460.1
120°	491.0	491.7	492.4	493.1	493.7	494.0	494.0	494.0	494.0	494.0	495.8
122.5°	527.9	528.4	528.8	529.3	529.9	530.3	530.9	531.4	531.9	532.4	533.7
125°	584.1	584.3	584.5	584.7	585.0	585.4	586.1	586.8	587.4	588.1	588.8
127.5°	635.2	636.0	636.7	637.4	638.1	638.9	639.6	640.5	641.3	642.0	642.9
130°	672.1	673.0	673.8	674.8	675.6	676.3	676.7	677.2	677.6	678.1	678.6
132.5°	707.3	708.0	708.7	709.5	710.2	711.0	712.0	712.9	713.9	714.9	714.8
135°	762.1	762.8	763.4	764.1	764.7	765.2	765.4	765.7	765.9	766.1	765.7
137.5°	811.7	812.6	813.5	814.3	815.3	815.8	816.0	816.1	816.3	816.5	815.9
140°	846.1	847.0	847.9	848.8	849.6	850.1	850.1	850.1	850.1	850.1	849.0
142.5°	877.3	878.2	879.1	879.9	880.9	881.2	881.1	880.9	880.7	880.5	879.8
145°	924.1	925.0	925.9	926.8	927.6	928.0	927.8	927.6	927.3	927.1	925.7
147.5°	966.0	966.7	967.6	968.5	969.3	969.5	969.0	968.5	968.0	967.5	966.6
150°	993.2	993.8	994.5	995.1	995.8	995.8	995.1	994.5	993.8	993.2	992.2
152.5°	1018.7	1019.6	1020.5	1021.2	1022.1	1022.1	1021.2	1020.5	1019.6	1018.7	1017.7
155°	1053.1	1053.8	1054.5	1055.2	1055.8	1055.6	1054.5	1053.3	1052.2	1051.1	1050.5
157.5°	1082.7	1083.8	1084.9	1085.9	1087.0	1086.8	1085.3	1083.7	1082.3	1080.7	1080.3
160°	1101.1	1102.0	1102.9	1103.8	1104.7	1104.5	1103.1	1101.8	1100.4	1099.2	1098.9
162.5°	1117.1	1118.2	1119.3	1120.3	1121.4	1121.2	1119.6	1118.2	1116.6	1115.2	1114.9
165°	1138.2	1139.3	1140.4	1141.5	1142.5	1142.4	1140.8	1139.3	1137.7	1136.2	1136.2
167.5°	1155.4	1156.5	1157.6	1158.8	1159.9	1159.8	1158.2	1156.7	1155.1	1153.6	1153.6
170°	1164.2	1165.4	1166.8	1168.1	1169.5	1169.3	1167.8	1166.2	1164.7	1163.1	1163.4
172.5°	1171.3	1172.7	1174.0	1175.4	1176.6	1176.6	1175.0	1173.5	1171.9	1170.4	1170.5
175°	1179.1	1180.5	1181.8	1183.2	1184.5	1184.4	1182.8	1181.3	1179.7	1178.1	1178.6
177.5°	1182.8	1183.8	1184.9	1185.9	1187.0	1187.0	1185.9	1184.9	1183.8	1182.8	1183.1
180°	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2



TEST NUMBER: P331367-935

CATALOG NUMBER: SA2XXDIP-C675D1080U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1173.5	1170.7	1169.0	1162.6	1157.0	1151.4	1149.6	1150.3	1142.6	1135.2	1132.0
5°	1219.3	1210.5	1202.1	1190.2	1176.2	1160.8	1152.9	1146.7	1131.4	1114.7	1105.0
7.5°	1260.2	1247.7	1231.6	1209.2	1188.8	1164.6	1149.2	1135.6	1113.0	1089.5	1075.0
10°	1285.2	1268.0	1247.3	1220.1	1195.1	1165.6	1145.0	1124.3	1097.9	1069.8	1052.2
12.5°	1306.7	1283.5	1263.2	1228.2	1198.6	1161.7	1137.2	1108.1	1080.4	1047.0	1029.8
15°	1357.7	1315.1	1276.3	1236.8	1200.3	1148.9	1121.7	1082.5	1046.0	1004.8	985.0
17.5°	1397.1	1349.3	1288.3	1238.0	1195.5	1138.6	1098.5	1051.7	1008.6	961.3	934.4
20°	1419.7	1364.7	1299.2	1239.5	1188.4	1123.4	1080.0	1032.0	981.5	928.2	899.2
22.5°	1433.0	1375.3	1310.5	1234.2	1174.4	1111.1	1056.4	1003.8	952.6	895.3	864.8
25°	1437.3	1384.5	1316.0	1229.8	1156.8	1085.2	1019.3	968.3	906.3	852.6	808.3
27.5°	1416.3	1378.5	1312.6	1221.5	1136.5	1052.7	979.3	921.5	856.1	797.9	753.3
30°	1390.7	1368.6	1304.5	1213.1	1120.3	1030.3	949.3	883.9	818.8	759.9	714.2
32.5°	1350.9	1346.2	1289.8	1201.1	1103.1	1001.8	918.1	851.9	779.8	721.9	678.4
35°	1272.9	1294.0	1258.4	1174.4	1070.7	961.2	870.7	795.1	720.4	665.0	624.1
37.5°	1168.3	1220.6	1211.3	1135.3	1026.9	917.1	817.2	738.1	666.9	611.1	570.9
40°	1096.1	1163.0	1172.7	1105.4	996.0	883.0	777.1	698.4	629.0	578.0	537.5
42.5°	1018.8	1096.9	1123.4	1069.5	962.2	847.1	741.2	659.7	591.0	541.4	505.6
45°	889.2	992.5	1040.3	1009.6	905.9	788.1	679.1	596.4	534.0	487.4	459.8
47.5°	767.9	880.8	945.2	934.4	843.2	726.5	618.8	539.5	478.7	441.5	416.7
50°	682.2	798.1	876.0	879.5	798.1	682.6	574.5	499.7	443.9	409.2	389.0
52.5°	607.6	718.3	803.2	821.8	747.9	636.9	534.8	460.4	411.2	379.3	361.2
55°	510.3	603.9	697.9	732.3	672.9	567.4	472.9	407.4	361.3	339.3	323.5
57.5°	424.2	502.3	589.2	627.1	590.5	500.2	411.6	354.7	317.3	298.0	285.9
60°	378.8	440.4	517.7	563.0	531.4	451.0	373.6	319.5	288.8	271.6	260.2
62.5°	336.7	391.2	456.6	498.0	480.8	404.9	335.6	287.9	261.3	245.2	237.0
65°	277.8	320.9	371.4	409.7	398.2	340.6	284.0	243.1	222.0	209.2	202.6
67.5°	228.8	259.8	294.9	328.4	319.2	278.4	232.9	201.0	185.3	174.4	170.4
70°	197.8	221.5	252.7	279.6	272.1	238.7	202.6	175.4	161.8	152.5	148.5
72.5°	168.2	187.8	211.5	233.5	228.4	200.7	170.7	150.1	139.6	131.0	127.8
75°	127.0	142.0	156.4	171.0	169.6	148.1	130.5	114.7	106.3	99.8	98.4
77.5°	93.8	102.1	112.0	120.6	118.2	105.9	92.1	83.1	76.9	72.5	71.8
80°	71.6	76.5	83.5	89.6	86.6	81.3	70.3	63.7	59.3	54.9	53.2
82.5°	51.9	56.8	61.0	64.3	62.0	57.1	50.3	45.8	43.1	40.2	39.4
85°	27.2	29.9	31.7	32.5	31.7	28.6	25.5	23.8	21.5	20.2	19.8
87.5°	15.6	14.6	13.6	13.6	12.0	11.5	9.6	7.9	8.1	8.3	8.1
90°	25.2	20.3	15.4	11.7	9.0	6.4	3.7	1.0	3.7	6.4	9.0
92.5°	29.5	28.3	27.2	25.7	23.7	21.7	19.7	17.8	19.7	21.7	23.7
95°	63.1	62.7	62.3	60.9	58.6	56.5	54.2	52.0	54.2	56.5	58.6
97.5°	105.9	105.0	104.3	102.8	100.9	98.9	96.9	95.1	96.9	98.9	100.9
100°	136.6	136.0	135.3	134.1	132.3	130.6	128.8	127.0	128.8	130.6	132.3
102.5°	169.1	168.3	167.5	166.3	164.9	163.5	162.0	160.7	162.0	163.5	164.9
105°	219.1	218.7	218.3	217.7	217.1	216.4	215.7	215.0	215.7	216.4	217.1
107.5°	274.2	274.2	274.2	273.7	272.8	271.8	270.8	269.8	270.8	271.8	272.8
110°	311.1	311.1	311.1	310.4	309.0	307.7	306.3	305.1	306.3	307.7	309.0





TEST NUMBER: P331367-935

CATALOG NUMBER: SA2XXDIP-C675D1080U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	349.0	349.1	349.4	348.8	347.4	346.1	344.7	343.5	344.7	346.1	347.4
115°	404.9	405.4	405.8	405.4	404.1	402.7	401.4	400.0	401.4	402.7	404.1
117.5°	461.3	462.6	463.8	463.6	461.8	460.0	458.2	456.4	458.2	460.0	461.8
120°	497.7	499.4	501.2	501.2	499.4	497.7	495.8	494.0	495.8	497.7	499.4
122.5°	534.9	536.2	537.4	537.0	534.9	532.7	530.6	528.5	530.6	532.7	534.9
125°	589.4	590.0	590.7	590.0	588.1	586.1	584.1	582.0	584.1	586.1	588.1
127.5°	643.7	644.5	645.3	644.4	641.9	639.4	636.8	634.3	636.8	639.4	641.9
130°	679.0	679.4	679.8	678.6	675.7	672.9	669.9	667.1	669.9	672.9	675.7
132.5°	714.7	714.6	714.5	713.3	710.9	708.6	706.3	703.9	706.3	708.6	710.9
135°	765.2	764.7	764.3	762.8	760.4	758.0	755.5	753.1	755.5	758.0	760.4
137.5°	815.4	814.8	814.2	812.9	810.9	808.9	806.9	804.9	806.9	808.9	810.9
140°	847.9	846.8	845.7	844.1	842.1	840.1	838.1	836.1	838.1	840.1	842.1
142.5°	879.0	878.2	877.4	876.1	874.1	872.1	870.1	868.1	870.1	872.1	874.1
145°	924.5	923.1	921.8	920.3	918.8	917.2	915.7	914.1	915.7	917.2	918.8
147.5°	965.8	964.8	964.0	962.6	960.7	958.8	957.0	955.1	957.0	958.8	960.7
150°	991.4	990.5	989.5	988.4	987.1	985.8	984.5	983.1	984.5	985.8	987.1
152.5°	1016.6	1015.5	1014.4	1013.2	1011.9	1010.6	1009.3	1007.9	1009.3	1010.6	1011.9
155°	1049.8	1049.1	1048.4	1047.8	1047.1	1046.5	1045.8	1045.2	1045.8	1046.5	1047.1
157.5°	1080.0	1079.5	1079.1	1078.7	1078.2	1077.8	1077.4	1076.9	1077.4	1077.8	1078.2
160°	1098.7	1098.5	1098.2	1097.9	1097.4	1097.0	1096.6	1096.1	1096.6	1097.0	1097.4
162.5°	1114.7	1114.5	1114.2	1114.1	1114.0	1113.9	1113.8	1113.7	1113.8	1113.9	1114.0
165°	1136.2	1136.2	1136.2	1136.3	1136.4	1136.7	1137.0	1137.1	1137.0	1136.7	1136.4
167.5°	1153.7	1153.7	1153.7	1154.1	1154.8	1155.4	1156.1	1156.8	1156.1	1155.4	1154.8
170°	1163.6	1163.8	1164.1	1164.5	1165.1	1165.8	1166.5	1167.2	1166.5	1165.8	1165.1
172.5°	1170.8	1171.0	1171.2	1171.6	1172.3	1173.0	1173.7	1174.3	1173.7	1173.0	1172.3
175°	1179.1	1179.5	1179.9	1180.5	1181.1	1181.8	1182.5	1183.2	1182.5	1181.8	1181.1
177.5°	1183.4	1183.8	1184.1	1184.6	1185.2	1185.7	1186.2	1186.7	1186.2	1185.7	1185.2
180°	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2



TEST NUMBER: P331367-935

CATALOG NUMBER: SA2XXDIP-C675D1080U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1128.5	1126.4	1119.0	1115.2	1108.8	1102.9	1099.0	1100.8	1102.2	1101.5	1100.4
5°	1096.1	1087.8	1075.0	1064.1	1056.2	1041.6	1035.5	1032.4	1029.8	1026.7	1023.6
7.5°	1057.7	1044.5	1026.2	1010.6	995.7	977.8	967.5	961.3	955.0	948.0	941.9
10°	1030.3	1011.8	992.5	970.4	952.9	936.6	922.1	912.5	903.7	895.4	889.2
12.5°	1001.4	980.2	956.2	926.2	906.8	883.6	881.3	864.3	850.6	845.4	838.2
15°	955.5	925.7	895.4	859.7	844.3	823.2	810.0	796.9	785.0	776.6	774.5
17.5°	903.4	864.7	834.6	809.0	783.8	762.2	750.0	739.4	729.7	718.5	717.0
20°	863.7	830.3	797.3	774.9	749.0	726.9	712.0	701.5	693.1	686.6	680.8
22.5°	826.0	789.5	759.3	734.8	709.2	691.5	679.7	669.5	662.5	655.2	649.9
25°	765.7	737.1	704.1	676.4	655.3	643.9	634.2	625.4	621.0	616.2	610.1
27.5°	712.8	681.1	650.2	628.8	610.3	600.1	593.2	587.3	583.2	580.3	576.9
30°	675.5	643.4	619.3	598.2	582.8	572.7	568.3	564.8	560.0	558.2	556.5
32.5°	639.7	610.8	590.1	571.8	557.2	550.5	546.5	543.4	539.6	537.8	534.3
35°	588.9	564.8	544.6	534.4	522.6	516.9	513.8	509.4	505.9	504.1	503.7
37.5°	541.2	520.2	507.0	494.0	489.0	485.4	481.2	478.2	477.2	476.9	476.5
40°	510.3	493.2	481.3	470.7	468.6	463.2	459.8	457.1	457.1	457.5	457.1
42.5°	482.2	466.7	456.3	447.2	444.6	441.4	437.9	437.7	438.5	440.0	438.5
45°	439.5	428.5	421.0	416.6	411.8	408.7	408.3	409.7	410.1	410.5	411.8
47.5°	400.3	393.0	386.2	381.4	379.3	378.8	378.2	380.6	382.6	383.4	385.5
50°	377.1	368.8	363.1	360.0	358.2	357.3	358.2	360.8	362.6	364.8	366.1
52.5°	351.1	345.2	341.2	338.9	338.2	338.7	338.9	341.9	344.7	345.4	346.1
55°	315.1	310.7	309.9	305.9	307.6	307.2	309.4	311.2	313.8	316.4	316.9
57.5°	279.3	275.8	273.4	273.7	274.2	276.2	278.0	281.1	284.0	286.7	287.0
60°	255.4	253.6	252.3	252.3	253.1	255.8	258.0	261.1	262.9	264.6	265.9
62.5°	233.6	231.8	230.5	231.2	233.5	235.1	237.6	239.3	241.0	242.8	243.4
65°	199.1	198.2	199.6	200.4	200.9	203.0	206.1	207.4	209.2	210.1	213.2
67.5°	167.4	167.6	167.4	168.6	171.2	171.7	174.6	177.6	178.0	179.7	181.7
70°	145.9	146.8	147.7	148.5	150.8	151.6	153.9	155.2	156.9	158.3	159.5
72.5°	126.2	126.4	127.3	127.1	129.0	130.9	132.8	134.1	135.8	137.5	138.8
75°	97.1	97.1	98.0	98.4	100.7	102.9	102.4	103.3	105.0	106.8	107.7
77.5°	70.9	70.0	70.9	71.4	72.1	74.0	74.3	75.5	77.5	76.9	77.9
80°	54.1	52.8	54.1	54.5	54.5	56.7	56.7	57.6	58.9	57.6	58.9
82.5°	38.6	38.0	38.9	39.0	39.7	39.8	40.6	40.7	42.0	41.4	42.0
85°	19.4	18.9	19.4	18.9	19.4	19.8	19.8	19.4	19.4	20.2	18.9
87.5°	8.4	8.7	9.3	10.3	10.9	11.5	11.1	11.0	10.9	10.2	10.2
90°	11.7	15.4	20.3	25.2	30.1	35.0	34.5	34.1	33.7	33.2	33.1
92.5°	25.7	27.2	28.3	29.5	30.7	31.8	31.9	31.9	32.0	32.2	32.2
95°	60.9	62.3	62.7	63.1	63.5	64.0	64.0	64.0	64.0	64.0	63.8
97.5°	102.8	104.3	105.0	105.9	106.8	107.6	107.6	107.6	107.6	107.6	107.6
100°	134.1	135.3	136.0	136.6	137.3	138.0	138.0	138.0	138.0	138.0	137.9
102.5°	166.3	167.5	168.3	169.1	170.0	170.8	171.0	171.2	171.3	171.5	171.5
105°	217.7	218.3	218.7	219.1	219.6	220.0	220.5	220.9	221.4	221.8	222.1
107.5°	273.7	274.2	274.2	274.2	274.2	274.2	274.4	274.6	274.7	274.9	274.5
110°	310.4	311.1	311.1	311.1	311.1	311.1	311.1	311.1	311.1	311.1	310.7



TEST NUMBER: P331367-935

CATALOG NUMBER: SA2XXDIP-C675D1080U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	348.8	349.4	349.1	349.0	348.8	348.6	348.1	347.6	347.1	346.6	346.0
115°	405.4	405.8	405.4	404.9	404.5	404.1	403.8	403.6	403.4	403.1	402.7
117.5°	463.6	463.8	462.6	461.3	460.1	458.8	458.3	457.8	457.3	456.8	456.2
120°	501.2	501.2	499.4	497.7	495.8	494.0	494.0	494.0	494.0	494.0	493.7
122.5°	537.0	537.4	536.2	534.9	533.7	532.4	531.9	531.4	530.9	530.3	529.9
125°	590.0	590.7	590.0	589.4	588.8	588.1	587.4	586.8	586.1	585.4	585.0
127.5°	644.4	645.3	644.5	643.7	642.9	642.0	641.3	640.5	639.6	638.9	638.1
130°	678.6	679.8	679.4	679.0	678.6	678.1	677.6	677.2	676.7	676.3	675.6
132.5°	713.3	714.5	714.6	714.7	714.8	714.9	713.9	712.9	712.0	711.0	710.2
135°	762.8	764.3	764.7	765.2	765.7	766.1	765.9	765.7	765.4	765.2	764.7
137.5°	812.9	814.2	814.8	815.4	815.9	816.5	816.3	816.1	816.0	815.8	815.3
140°	844.1	845.7	846.8	847.9	849.0	850.1	850.1	850.1	850.1	850.1	849.6
142.5°	876.1	877.4	878.2	879.0	879.8	880.5	880.7	880.9	881.1	881.2	880.9
145°	920.3	921.8	923.1	924.5	925.7	927.1	927.3	927.6	927.8	928.0	927.6
147.5°	962.6	964.0	964.8	965.8	966.6	967.5	968.0	968.5	969.0	969.5	969.3
150°	988.4	989.5	990.5	991.4	992.2	993.2	993.8	994.5	995.1	995.8	995.8
152.5°	1013.2	1014.4	1015.5	1016.6	1017.7	1018.7	1019.6	1020.5	1021.2	1022.1	1022.1
155°	1047.8	1048.4	1049.1	1049.8	1050.5	1051.1	1052.2	1053.3	1054.5	1055.6	1055.8
157.5°	1078.7	1079.1	1079.5	1080.0	1080.3	1080.7	1082.3	1083.7	1085.3	1086.8	1087.0
160°	1097.9	1098.2	1098.5	1098.7	1098.9	1099.2	1100.4	1101.8	1103.1	1104.5	1104.7
162.5°	1114.1	1114.2	1114.5	1114.7	1114.9	1115.2	1116.6	1118.2	1119.6	1121.2	1121.4
165°	1136.3	1136.2	1136.2	1136.2	1136.2	1136.2	1137.7	1139.3	1140.8	1142.4	1142.5
167.5°	1154.1	1153.7	1153.7	1153.7	1153.6	1153.6	1155.1	1156.7	1158.2	1159.8	1159.9
170°	1164.5	1164.1	1163.8	1163.6	1163.4	1163.1	1164.7	1166.2	1167.8	1169.3	1169.5
172.5°	1171.6	1171.2	1171.0	1170.8	1170.5	1170.4	1171.9	1173.5	1175.0	1176.6	1176.6
175°	1180.5	1179.9	1179.5	1179.1	1178.6	1178.1	1179.7	1181.3	1182.8	1184.4	1184.5
177.5°	1184.6	1184.1	1183.8	1183.4	1183.1	1182.8	1183.8	1184.9	1185.9	1187.0	1187.0
180°	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2



TEST NUMBER: P331367-935

CATALOG NUMBER: SA2XXDIP-C675D1080U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1096.9	1096.1	1096.1	1093.0	1096.1	1096.1	1096.9	1100.4	1101.5	1102.2	1100.8
5°	1017.5	1016.2	1014.0	1016.2	1014.0	1016.2	1017.5	1023.6	1026.7	1029.8	1032.4
7.5°	939.0	933.8	933.0	927.7	933.0	933.8	939.0	941.9	948.0	955.0	961.3
10°	881.7	878.1	877.7	869.4	877.7	878.1	881.7	889.2	895.4	903.7	912.5
12.5°	838.1	829.7	831.3	826.5	831.3	829.7	838.1	838.2	845.4	850.6	864.3
15°	762.6	762.6	760.8	753.4	760.8	762.6	762.6	774.5	776.6	785.0	796.9
17.5°	708.3	707.5	703.3	705.3	703.3	707.5	708.3	717.0	718.5	729.7	739.4
20°	676.0	673.4	668.0	668.0	668.0	673.4	676.0	680.8	686.6	693.1	701.5
22.5°	645.4	645.2	639.6	641.4	639.6	645.2	645.4	649.9	655.2	662.5	669.5
25°	609.6	606.1	603.5	604.8	603.5	606.1	609.6	610.1	616.2	621.0	625.4
27.5°	575.7	573.8	573.6	570.0	573.6	573.8	575.7	576.9	580.3	583.2	587.3
30°	556.0	551.6	552.5	550.3	552.5	551.6	556.0	556.5	558.2	560.0	564.8
32.5°	533.5	531.9	531.1	529.2	531.1	531.9	533.5	534.3	537.8	539.6	543.4
35°	502.8	503.3	501.1	502.0	501.1	503.3	502.8	503.7	504.1	505.9	509.4
37.5°	476.0	477.4	476.4	476.6	476.4	477.4	476.0	476.5	476.9	477.2	478.2
40°	458.4	458.4	458.4	459.8	458.4	458.4	458.4	457.1	457.5	457.1	457.1
42.5°	441.5	440.8	440.1	440.1	440.1	440.8	441.5	438.5	440.0	438.5	437.7
45°	412.7	414.1	414.5	412.2	414.5	414.1	412.7	411.8	410.5	410.1	409.7
47.5°	386.6	386.8	386.6	388.6	386.6	386.8	386.6	385.5	383.4	382.6	380.6
50°	368.3	367.5	368.3	367.5	368.3	367.5	368.3	366.1	364.8	362.6	360.8
52.5°	349.0	349.1	348.6	348.4	348.6	349.1	349.0	346.1	345.4	344.7	341.9
55°	318.7	319.5	319.1	319.1	319.1	319.5	318.7	316.9	316.4	313.8	311.2
57.5°	287.3	288.1	288.7	286.7	288.7	288.1	287.3	287.0	286.7	284.0	281.1
60°	265.4	267.7	267.3	266.4	267.3	267.7	265.4	265.9	264.6	262.9	261.1
62.5°	245.5	246.2	246.2	246.0	246.2	246.2	245.5	243.4	242.8	241.0	239.3
65°	214.5	215.3	214.0	215.3	214.0	215.3	214.5	213.2	210.1	209.2	207.4
67.5°	181.2	181.4	182.4	183.0	182.4	181.4	181.2	181.7	179.7	178.0	177.6
70°	160.4	160.0	161.3	162.6	161.3	160.0	160.4	159.5	158.3	156.9	155.2
72.5°	138.6	139.6	139.1	140.1	139.1	139.6	138.6	138.8	137.5	135.8	134.1
75°	106.8	108.1	107.7	109.0	107.7	108.1	106.8	107.7	106.8	105.0	103.3
77.5°	77.1	77.3	77.1	77.9	77.1	77.3	77.1	77.9	76.9	77.5	75.5
80°	58.9	58.0	57.2	58.9	57.2	58.0	58.9	58.9	57.6	58.9	57.6
82.5°	41.0	41.5	40.6	40.6	40.6	41.5	41.0	42.0	41.4	42.0	40.7
85°	18.9	18.4	17.6	17.6	17.6	18.4	18.9	18.9	20.2	19.4	19.4
87.5°	10.2	9.9	9.9	9.6	9.9	9.9	10.2	10.2	10.2	10.9	11.0
90°	33.3	33.6	33.8	34.0	33.8	33.6	33.3	33.1	33.2	33.7	34.1
92.5°	32.3	32.3	32.4	32.4	32.4	32.3	32.3	32.2	32.2	32.0	31.9
95°	63.4	62.9	62.4	62.0	62.4	62.9	63.4	63.8	64.0	64.0	64.0
97.5°	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.6	107.6	107.6	107.6
100°	137.7	137.5	137.2	137.0	137.2	137.5	137.7	137.9	138.0	138.0	138.0
102.5°	171.3	171.1	170.8	170.7	170.8	171.1	171.3	171.5	171.5	171.3	171.2
105°	222.1	222.1	222.1	222.1	222.1	222.1	222.1	222.1	221.8	221.4	220.9
107.5°	273.5	272.5	271.5	270.4	271.5	272.5	273.5	274.5	274.9	274.7	274.6
110°	310.0	309.4	308.7	308.1	308.7	309.4	310.0	310.7	311.1	311.1	311.1



TEST NUMBER: P331367-935

CATALOG NUMBER: SA2XXDIP-C675D1080U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	345.5	345.0	344.6	344.1	344.6	345.0	345.5	346.0	346.6	347.1	347.6
115°	402.1	401.4	400.7	400.0	400.7	401.4	402.1	402.7	403.1	403.4	403.6
117.5°	455.5	454.8	454.1	453.5	454.1	454.8	455.5	456.2	456.8	457.3	457.8
120°	493.1	492.4	491.7	491.0	491.7	492.4	493.1	493.7	494.0	494.0	494.0
122.5°	529.3	528.8	528.4	527.9	528.4	528.8	529.3	529.9	530.3	530.9	531.4
125°	584.7	584.5	584.3	584.1	584.3	584.5	584.7	585.0	585.4	586.1	586.8
127.5°	637.4	636.7	636.0	635.2	636.0	636.7	637.4	638.1	638.9	639.6	640.5
130°	674.8	673.8	673.0	672.1	673.0	673.8	674.8	675.6	676.3	676.7	677.2
132.5°	709.5	708.7	708.0	707.3	708.0	708.7	709.5	710.2	711.0	712.0	712.9
135°	764.1	763.4	762.8	762.1	762.8	763.4	764.1	764.7	765.2	765.4	765.7
137.5°	814.3	813.5	812.6	811.7	812.6	813.5	814.3	815.3	815.8	816.0	816.1
140°	848.8	847.9	847.0	846.1	847.0	847.9	848.8	849.6	850.1	850.1	850.1
142.5°	879.9	879.1	878.2	877.3	878.2	879.1	879.9	880.9	881.2	881.1	880.9
145°	926.8	925.9	925.0	924.1	925.0	925.9	926.8	927.6	928.0	927.8	927.6
147.5°	968.5	967.6	966.7	966.0	966.7	967.6	968.5	969.3	969.5	969.0	968.5
150°	995.1	994.5	993.8	993.2	993.8	994.5	995.1	995.8	995.8	995.1	994.5
152.5°	1021.2	1020.5	1019.6	1018.7	1019.6	1020.5	1021.2	1022.1	1022.1	1021.2	1020.5
155°	1055.2	1054.5	1053.8	1053.1	1053.8	1054.5	1055.2	1055.8	1055.6	1054.5	1053.3
157.5°	1085.9	1084.9	1083.8	1082.7	1083.8	1084.9	1085.9	1087.0	1086.8	1085.3	1083.7
160°	1103.8	1102.9	1102.0	1101.1	1102.0	1102.9	1103.8	1104.7	1104.5	1103.1	1101.8
162.5°	1120.3	1119.3	1118.2	1117.1	1118.2	1119.3	1120.3	1121.4	1121.2	1119.6	1118.2
165°	1141.5	1140.4	1139.3	1138.2	1139.3	1140.4	1141.5	1142.5	1142.4	1140.8	1139.3
167.5°	1158.8	1157.6	1156.5	1155.4	1156.5	1157.6	1158.8	1159.9	1159.8	1158.2	1156.7
170°	1168.1	1166.8	1165.4	1164.2	1165.4	1166.8	1168.1	1169.5	1169.3	1167.8	1166.2
172.5°	1175.4	1174.0	1172.7	1171.3	1172.7	1174.0	1175.4	1176.6	1176.6	1175.0	1173.5
175°	1183.2	1181.8	1180.5	1179.1	1180.5	1181.8	1183.2	1184.5	1184.4	1182.8	1181.3
177.5°	1185.9	1184.9	1183.8	1182.8	1183.8	1184.9	1185.9	1187.0	1187.0	1185.9	1184.9
180°	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2



TEST NUMBER: P331367-935

CATALOG NUMBER: SA2XXDIP-C675D1080U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1099.0	1102.9	1108.8	1115.2	1119.0	1126.4	1128.5	1132.0	1135.2	1142.6	1150.3
5°	1035.5	1041.6	1056.2	1064.1	1075.0	1087.8	1096.1	1105.0	1114.7	1131.4	1146.7
7.5°	967.5	977.8	995.7	1010.6	1026.2	1044.5	1057.7	1075.0	1089.5	1113.0	1135.6
10°	922.1	936.6	952.9	970.4	992.5	1011.8	1030.3	1052.2	1069.8	1097.9	1124.3
12.5°	881.3	883.6	906.8	926.2	956.2	980.2	1001.4	1029.8	1047.0	1080.4	1108.1
15°	810.0	823.2	844.3	859.7	895.4	925.7	955.5	985.0	1004.8	1046.0	1082.5
17.5°	750.0	762.2	783.8	809.0	834.6	864.7	903.4	934.4	961.3	1008.6	1051.7
20°	712.0	726.9	749.0	774.9	797.3	830.3	863.7	899.2	928.2	981.5	1032.0
22.5°	679.7	691.5	709.2	734.8	759.3	789.5	826.0	864.8	895.3	952.6	1003.8
25°	634.2	643.9	655.3	676.4	704.1	737.1	765.7	808.3	852.6	906.3	968.3
27.5°	593.2	600.1	610.3	628.8	650.2	681.1	712.8	753.3	797.9	856.1	921.5
30°	568.3	572.7	582.8	598.2	619.3	643.4	675.5	714.2	759.9	818.8	883.9
32.5°	546.5	550.5	557.2	571.8	590.1	610.8	639.7	678.4	721.9	779.8	851.9
35°	513.8	516.9	522.6	534.4	544.6	564.8	588.9	624.1	665.0	720.4	795.1
37.5°	481.2	485.4	489.0	494.0	507.0	520.2	541.2	570.9	611.1	666.9	738.1
40°	459.8	463.2	468.6	470.7	481.3	493.2	510.3	537.5	578.0	629.0	698.4
42.5°	437.9	441.4	444.6	447.2	456.3	466.7	482.2	505.6	541.4	591.0	659.7
45°	408.3	408.7	411.8	416.6	421.0	428.5	439.5	459.8	487.4	534.0	596.4
47.5°	378.2	378.8	379.3	381.4	386.2	393.0	400.3	416.7	441.5	478.7	539.5
50°	358.2	357.3	358.2	360.0	363.1	368.8	377.1	389.0	409.2	443.9	499.7
52.5°	338.9	338.7	338.2	338.9	341.2	345.2	351.1	361.2	379.3	411.2	460.4
55°	309.4	307.2	307.6	305.9	309.9	310.7	315.1	323.5	339.3	361.3	407.4
57.5°	278.0	276.2	274.2	273.7	273.4	275.8	279.3	285.9	298.0	317.3	354.7
60°	258.0	255.8	253.1	252.3	252.3	253.6	255.4	260.2	271.6	288.8	319.5
62.5°	237.6	235.1	233.5	231.2	230.5	231.8	233.6	237.0	245.2	261.3	287.9
65°	206.1	203.0	200.9	200.4	199.6	198.2	199.1	202.6	209.2	222.0	243.1
67.5°	174.6	171.7	171.2	168.6	167.4	167.6	167.4	170.4	174.4	185.3	201.0
70°	153.9	151.6	150.8	148.5	147.7	146.8	145.9	148.5	152.5	161.8	175.4
72.5°	132.8	130.9	129.0	127.1	127.3	126.4	126.2	127.8	131.0	139.6	150.1
75°	102.4	102.9	100.7	98.4	98.0	97.1	97.1	98.4	99.8	106.3	114.7
77.5°	74.3	74.0	72.1	71.4	70.9	70.0	70.9	71.8	72.5	76.9	83.1
80°	56.7	56.7	54.5	54.5	54.1	52.8	54.1	53.2	54.9	59.3	63.7
82.5°	40.6	39.8	39.7	39.0	38.9	38.0	38.6	39.4	40.2	43.1	45.8
85°	19.8	19.8	19.4	18.9	19.4	18.9	19.4	19.8	20.2	21.5	23.8
87.5°	11.1	11.5	10.9	10.3	9.3	8.7	8.4	8.1	8.3	8.1	7.9
90°	34.5	35.0	30.1	25.2	20.3	15.4	11.7	9.0	6.4	3.7	1.0
92.5°	31.9	31.8	30.7	29.5	28.3	27.2	25.7	23.7	21.7	19.7	17.8
95°	64.0	64.0	63.5	63.1	62.7	62.3	60.9	58.6	56.5	54.2	52.0
97.5°	107.6	107.6	106.8	105.9	105.0	104.3	102.8	100.9	98.9	96.9	95.1
100°	138.0	138.0	137.3	136.6	136.0	135.3	134.1	132.3	130.6	128.8	127.0
102.5°	171.0	170.8	170.0	169.1	168.3	167.5	166.3	164.9	163.5	162.0	160.7
105°	220.5	220.0	219.6	219.1	218.7	218.3	217.7	217.1	216.4	215.7	215.0
107.5°	274.4	274.2	274.2	274.2	274.2	274.2	273.7	272.8	271.8	270.8	269.8
110°	311.1	311.1	311.1	311.1	311.1	311.1	310.4	309.0	307.7	306.3	305.1



TEST NUMBER: P331367-935

CATALOG NUMBER: SA2XXDIP-C675D1080U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	348.1	348.6	348.8	349.0	349.1	349.4	348.8	347.4	346.1	344.7	343.5
115°	403.8	404.1	404.5	404.9	405.4	405.8	405.4	404.1	402.7	401.4	400.0
117.5°	458.3	458.8	460.1	461.3	462.6	463.8	463.6	461.8	460.0	458.2	456.4
120°	494.0	494.0	495.8	497.7	499.4	501.2	501.2	499.4	497.7	495.8	494.0
122.5°	531.9	532.4	533.7	534.9	536.2	537.4	537.0	534.9	532.7	530.6	528.5
125°	587.4	588.1	588.8	589.4	590.0	590.7	590.0	588.1	586.1	584.1	582.0
127.5°	641.3	642.0	642.9	643.7	644.5	645.3	644.4	641.9	639.4	636.8	634.3
130°	677.6	678.1	678.6	679.0	679.4	679.8	678.6	675.7	672.9	669.9	667.1
132.5°	713.9	714.9	714.8	714.7	714.6	714.5	713.3	710.9	708.6	706.3	703.9
135°	765.9	766.1	765.7	765.2	764.7	764.3	762.8	760.4	758.0	755.5	753.1
137.5°	816.3	816.5	815.9	815.4	814.8	814.2	812.9	810.9	808.9	806.9	804.9
140°	850.1	850.1	849.0	847.9	846.8	845.7	844.1	842.1	840.1	838.1	836.1
142.5°	880.7	880.5	879.8	879.0	878.2	877.4	876.1	874.1	872.1	870.1	868.1
145°	927.3	927.1	925.7	924.5	923.1	921.8	920.3	918.8	917.2	915.7	914.1
147.5°	968.0	967.5	966.6	965.8	964.8	964.0	962.6	960.7	958.8	957.0	955.1
150°	993.8	993.2	992.2	991.4	990.5	989.5	988.4	987.1	985.8	984.5	983.1
152.5°	1019.6	1018.7	1017.7	1016.6	1015.5	1014.4	1013.2	1011.9	1010.6	1009.3	1007.9
155°	1052.2	1051.1	1050.5	1049.8	1049.1	1048.4	1047.8	1047.1	1046.5	1045.8	1045.2
157.5°	1082.3	1080.7	1080.3	1080.0	1079.5	1079.1	1078.7	1078.2	1077.8	1077.4	1076.9
160°	1100.4	1099.2	1098.9	1098.7	1098.5	1098.2	1097.9	1097.4	1097.0	1096.6	1096.1
162.5°	1116.6	1115.2	1114.9	1114.7	1114.5	1114.2	1114.1	1114.0	1113.9	1113.8	1113.7
165°	1137.7	1136.2	1136.2	1136.2	1136.2	1136.2	1136.3	1136.4	1136.7	1137.0	1137.1
167.5°	1155.1	1153.6	1153.6	1153.7	1153.7	1153.7	1154.1	1154.8	1155.4	1156.1	1156.8
170°	1164.7	1163.1	1163.4	1163.6	1163.8	1164.1	1164.5	1165.1	1165.8	1166.5	1167.2
172.5°	1171.9	1170.4	1170.5	1170.8	1171.0	1171.2	1171.6	1172.3	1173.0	1173.7	1174.3
175°	1179.7	1178.1	1178.6	1179.1	1179.5	1179.9	1180.5	1181.1	1181.8	1182.5	1183.2
177.5°	1183.8	1182.8	1183.1	1183.4	1183.8	1184.1	1184.6	1185.2	1185.7	1186.2	1186.7
180°	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2



TEST NUMBER: P331367-935

CATALOG NUMBER: SA2XXDIP-C675D1080U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1149.6	1151.4	1157.0	1162.6	1169.0	1170.7	1173.5	1171.0	1170.4	1177.1	1182.0
5°	1152.9	1160.8	1176.2	1190.2	1202.1	1210.5	1219.3	1222.8	1229.3	1238.5	1250.0
7.5°	1149.2	1164.6	1188.8	1209.2	1231.6	1247.7	1260.2	1270.9	1283.9	1301.4	1320.5
10°	1145.0	1165.6	1195.1	1220.1	1247.3	1268.0	1285.2	1301.8	1321.2	1345.4	1370.5
12.5°	1137.2	1161.7	1198.6	1228.2	1263.2	1283.5	1306.7	1342.6	1363.4	1397.1	1432.4
15°	1121.7	1148.9	1200.3	1236.8	1276.3	1315.1	1357.7	1392.0	1426.2	1446.0	1495.7
17.5°	1098.5	1138.6	1195.5	1238.0	1288.3	1349.3	1397.1	1436.0	1475.6	1507.7	1532.6
20°	1080.0	1123.4	1188.4	1239.5	1299.2	1364.7	1419.7	1459.2	1493.5	1520.4	1535.7
22.5°	1056.4	1111.1	1174.4	1234.2	1310.5	1375.3	1433.0	1464.1	1492.8	1505.9	1511.8
25°	1019.3	1085.2	1156.8	1229.8	1316.0	1384.5	1437.3	1456.1	1464.5	1451.7	1430.6
27.5°	979.3	1052.7	1136.5	1221.5	1312.6	1378.5	1416.3	1413.3	1399.2	1358.0	1325.0
30°	949.3	1030.3	1120.3	1213.1	1304.5	1368.6	1390.7	1368.6	1336.6	1290.5	1243.5
32.5°	918.1	1001.8	1103.1	1201.1	1289.8	1346.2	1350.9	1313.1	1263.4	1211.0	1152.4
35°	870.7	961.2	1070.7	1174.4	1258.4	1294.0	1272.9	1206.1	1147.2	1075.6	995.5
37.5°	817.2	917.1	1026.9	1135.3	1211.3	1220.6	1168.3	1097.9	1014.9	930.7	836.5
40°	777.1	883.0	996.0	1105.4	1172.7	1163.0	1096.1	1018.8	919.9	817.1	729.6
42.5°	741.2	847.1	962.2	1069.5	1123.4	1096.9	1018.8	923.9	817.6	720.7	640.7
45°	679.1	788.1	905.9	1009.6	1040.3	992.5	889.2	783.7	679.1	598.2	534.9
47.5°	618.8	726.5	843.2	934.4	945.2	880.8	767.9	659.4	569.5	503.6	458.9
50°	574.5	682.6	798.1	879.5	876.0	798.1	682.2	578.9	503.7	450.5	420.6
52.5°	534.8	636.9	747.9	821.8	803.2	718.3	607.6	515.9	454.1	412.5	385.5
55°	472.9	567.4	672.9	732.3	697.9	603.9	510.3	436.4	390.7	359.6	338.5
57.5°	411.6	500.2	590.5	627.1	589.2	502.3	424.2	370.7	336.3	313.2	299.5
60°	373.6	451.0	531.4	563.0	517.7	440.4	378.8	331.0	303.2	284.4	272.1
62.5°	335.6	404.9	480.8	498.0	456.6	391.2	336.7	296.9	274.1	257.3	245.7
65°	284.0	340.6	398.2	409.7	371.4	320.9	277.8	251.8	231.6	219.3	210.1
67.5°	232.9	278.4	319.2	328.4	294.9	259.8	228.8	206.1	192.4	182.2	174.4
70°	202.6	238.7	272.1	279.6	252.7	221.5	197.8	179.8	167.5	158.7	151.2
72.5°	170.7	200.7	228.4	233.5	211.5	187.8	168.2	154.1	143.2	137.6	130.4
75°	130.5	148.1	169.6	171.0	156.4	142.0	127.0	117.8	112.1	105.0	101.5
77.5°	92.1	105.9	118.2	120.6	112.0	102.1	93.8	86.5	81.6	78.4	75.2
80°	70.3	81.3	86.6	89.6	83.5	76.5	71.6	66.8	63.7	61.6	59.3
82.5°	50.3	57.1	62.0	64.3	61.0	56.8	51.9	49.2	46.8	45.0	44.3
85°	25.5	28.6	31.7	32.5	31.7	29.9	27.2	27.2	25.9	25.5	25.5
87.5°	9.6	11.5	12.0	13.6	13.6	14.6	15.6	16.2	16.9	16.4	15.9
90°	3.7	6.4	9.0	11.7	15.4	20.3	25.2	30.1	35.0	34.5	34.1
92.5°	19.7	21.7	23.7	25.7	27.2	28.3	29.5	30.7	31.8	31.9	31.9
95°	54.2	56.5	58.6	60.9	62.3	62.7	63.1	63.5	64.0	64.0	64.0
97.5°	96.9	98.9	100.9	102.8	104.3	105.0	105.9	106.8	107.6	107.6	107.6
100°	128.8	130.6	132.3	134.1	135.3	136.0	136.6	137.3	138.0	138.0	138.0
102.5°	162.0	163.5	164.9	166.3	167.5	168.3	169.1	170.0	170.8	171.0	171.2
105°	215.7	216.4	217.1	217.7	218.3	218.7	219.1	219.6	220.0	220.5	220.9
107.5°	270.8	271.8	272.8	273.7	274.2	274.2	274.2	274.2	274.2	274.4	274.6
110°	306.3	307.7	309.0	310.4	311.1	311.1	311.1	311.1	311.1	311.1	311.1





TEST NUMBER: P331367-935

CATALOG NUMBER: SA2XXDIP-C675D1080U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	344.7	346.1	347.4	348.8	349.4	349.1	349.0	348.8	348.6	348.1	347.6
115°	401.4	402.7	404.1	405.4	405.8	405.4	404.9	404.5	404.1	403.8	403.6
117.5°	458.2	460.0	461.8	463.6	463.8	462.6	461.3	460.1	458.8	458.3	457.8
120°	495.8	497.7	499.4	501.2	501.2	499.4	497.7	495.8	494.0	494.0	494.0
122.5°	530.6	532.7	534.9	537.0	537.4	536.2	534.9	533.7	532.4	531.9	531.4
125°	584.1	586.1	588.1	590.0	590.7	590.0	589.4	588.8	588.1	587.4	586.8
127.5°	636.8	639.4	641.9	644.4	645.3	644.5	643.7	642.9	642.0	641.3	640.5
130°	669.9	672.9	675.7	678.6	679.8	679.4	679.0	678.6	678.1	677.6	677.2
132.5°	706.3	708.6	710.9	713.3	714.5	714.6	714.7	714.8	714.9	713.9	712.9
135°	755.5	758.0	760.4	762.8	764.3	764.7	765.2	765.7	766.1	765.9	765.7
137.5°	806.9	808.9	810.9	812.9	814.2	814.8	815.4	815.9	816.5	816.3	816.1
140°	838.1	840.1	842.1	844.1	845.7	846.8	847.9	849.0	850.1	850.1	850.1
142.5°	870.1	872.1	874.1	876.1	877.4	878.2	879.0	879.8	880.5	880.7	880.9
145°	915.7	917.2	918.8	920.3	921.8	923.1	924.5	925.7	927.1	927.3	927.6
147.5°	957.0	958.8	960.7	962.6	964.0	964.8	965.8	966.6	967.5	968.0	968.5
150°	984.5	985.8	987.1	988.4	989.5	990.5	991.4	992.2	993.2	993.8	994.5
152.5°	1009.3	1010.6	1011.9	1013.2	1014.4	1015.5	1016.6	1017.7	1018.7	1019.6	1020.5
155°	1045.8	1046.5	1047.1	1047.8	1048.4	1049.1	1049.8	1050.5	1051.1	1052.2	1053.3
157.5°	1077.4	1077.8	1078.2	1078.7	1079.1	1079.5	1080.0	1080.3	1080.7	1082.3	1083.7
160°	1096.6	1097.0	1097.4	1097.9	1098.2	1098.5	1098.7	1098.9	1099.2	1100.4	1101.8
162.5°	1113.8	1113.9	1114.0	1114.1	1114.2	1114.5	1114.7	1114.9	1115.2	1116.6	1118.2
165°	1137.0	1136.7	1136.4	1136.3	1136.2	1136.2	1136.2	1136.2	1136.2	1137.7	1139.3
167.5°	1156.1	1155.4	1154.8	1154.1	1153.7	1153.7	1153.7	1153.6	1153.6	1155.1	1156.7
170°	1166.5	1165.8	1165.1	1164.5	1164.1	1163.8	1163.6	1163.4	1163.1	1164.7	1166.2
172.5°	1173.7	1173.0	1172.3	1171.6	1171.2	1171.0	1170.8	1170.5	1170.4	1171.9	1173.5
175°	1182.5	1181.8	1181.1	1180.5	1179.9	1179.5	1179.1	1178.6	1178.1	1179.7	1181.3
177.5°	1186.2	1185.7	1185.2	1184.6	1184.1	1183.8	1183.4	1183.1	1182.8	1183.8	1184.9
180°	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2



TEST NUMBER: P331367-935

CATALOG NUMBER: SA2XXDIP-C675D1080U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1186.2	1191.1	1191.1	1191.8	1197.5	1196.7	1196.4
5°	1262.3	1269.8	1270.7	1278.6	1283.8	1282.1	1277.3
7.5°	1334.1	1348.1	1358.6	1364.4	1371.4	1375.7	1373.8
10°	1391.1	1411.4	1423.7	1432.0	1442.1	1449.6	1446.9
12.5°	1442.8	1466.9	1483.8	1498.1	1499.4	1509.0	1502.4
15°	1523.4	1548.9	1551.5	1562.1	1570.5	1569.5	1569.9
17.5°	1550.1	1558.2	1559.9	1560.1	1560.2	1557.1	1550.5
20°	1540.5	1537.5	1530.0	1524.3	1514.2	1512.9	1504.1
22.5°	1495.6	1485.7	1467.1	1454.7	1438.9	1434.8	1432.4
25°	1407.0	1385.3	1355.5	1326.9	1319.1	1303.6	1308.0
27.5°	1285.4	1251.8	1219.4	1196.2	1175.2	1152.2	1158.7
30°	1199.9	1162.1	1116.4	1081.2	1058.9	1036.8	1032.9
32.5°	1097.9	1042.6	991.5	960.6	926.3	912.4	897.2
35°	922.1	868.1	817.5	774.0	749.0	729.6	712.0
37.5°	764.0	701.7	661.0	625.7	607.6	596.5	599.3
40°	665.9	611.4	581.5	554.7	538.0	530.0	531.8
42.5°	586.4	545.6	521.0	502.7	490.9	486.5	485.4
45°	496.2	473.4	453.1	442.6	436.9	432.0	429.0
47.5°	434.7	416.0	404.7	398.4	393.4	388.5	388.4
50°	397.8	385.5	377.5	370.9	367.0	363.5	366.5
52.5°	369.6	358.3	350.5	344.6	343.1	339.9	339.8
55°	327.9	319.1	313.4	308.1	305.5	303.7	301.5
57.5°	289.9	281.5	276.3	272.9	267.9	266.1	265.4
60°	262.9	256.2	251.0	246.6	244.4	240.8	240.8
62.5°	237.9	231.3	226.4	223.0	219.4	218.0	218.3
65°	201.7	196.5	191.7	188.1	187.3	184.6	185.5
67.5°	168.5	165.0	159.9	158.0	156.3	154.9	153.9
70°	146.4	142.8	140.2	137.6	136.2	136.2	136.2
72.5°	127.7	123.5	121.9	118.6	119.3	118.0	116.6
75°	98.9	96.3	95.0	93.6	91.4	91.4	91.4
77.5°	72.8	72.0	70.4	69.0	68.4	68.0	68.2
80°	56.2	55.8	54.9	54.9	54.1	53.6	52.8
82.5°	43.2	42.1	41.6	41.2	41.1	41.0	40.8
85°	24.6	23.8	23.8	24.2	23.3	23.3	23.8
87.5°	16.2	16.1	15.8	15.8	16.2	15.9	15.9
90°	33.7	33.2	33.1	33.3	33.6	33.8	34.0
92.5°	32.0	32.2	32.2	32.3	32.3	32.4	32.4
95°	64.0	64.0	63.8	63.4	62.9	62.4	62.0
97.5°	107.6	107.6	107.6	107.5	107.5	107.5	107.5
100°	138.0	138.0	137.9	137.7	137.5	137.2	137.0
102.5°	171.3	171.5	171.5	171.3	171.1	170.8	170.7
105°	221.4	221.8	222.1	222.1	222.1	222.1	222.1
107.5°	274.7	274.9	274.5	273.5	272.5	271.5	270.4
110°	311.1	311.1	310.7	310.0	309.4	308.7	308.1



TEST NUMBER: P331367-935

CATALOG NUMBER: SA2XXDIP-C675D1080U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	347.1	346.6	346.0	345.5	345.0	344.6	344.1
115°	403.4	403.1	402.7	402.1	401.4	400.7	400.0
117.5°	457.3	456.8	456.2	455.5	454.8	454.1	453.5
120°	494.0	494.0	493.7	493.1	492.4	491.7	491.0
122.5°	530.9	530.3	529.9	529.3	528.8	528.4	527.9
125°	586.1	585.4	585.0	584.7	584.5	584.3	584.1
127.5°	639.6	638.9	638.1	637.4	636.7	636.0	635.2
130°	676.7	676.3	675.6	674.8	673.8	673.0	672.1
132.5°	712.0	711.0	710.2	709.5	708.7	708.0	707.3
135°	765.4	765.2	764.7	764.1	763.4	762.8	762.1
137.5°	816.0	815.8	815.3	814.3	813.5	812.6	811.7
140°	850.1	850.1	849.6	848.8	847.9	847.0	846.1
142.5°	881.1	881.2	880.9	879.9	879.1	878.2	877.3
145°	927.8	928.0	927.6	926.8	925.9	925.0	924.1
147.5°	969.0	969.5	969.3	968.5	967.6	966.7	966.0
150°	995.1	995.8	995.8	995.1	994.5	993.8	993.2
152.5°	1021.2	1022.1	1022.1	1021.2	1020.5	1019.6	1018.7
155°	1054.5	1055.6	1055.8	1055.2	1054.5	1053.8	1053.1
157.5°	1085.3	1086.8	1087.0	1085.9	1084.9	1083.8	1082.7
160°	1103.1	1104.5	1104.7	1103.8	1102.9	1102.0	1101.1
162.5°	1119.6	1121.2	1121.4	1120.3	1119.3	1118.2	1117.1
165°	1140.8	1142.4	1142.5	1141.5	1140.4	1139.3	1138.2
167.5°	1158.2	1159.8	1159.9	1158.8	1157.6	1156.5	1155.4
170°	1167.8	1169.3	1169.5	1168.1	1166.8	1165.4	1164.2
172.5°	1175.0	1176.6	1176.6	1175.4	1174.0	1172.7	1171.3
175°	1182.8	1184.4	1184.5	1183.2	1181.8	1180.5	1179.1
177.5°	1185.9	1187.0	1187.0	1185.9	1184.9	1183.8	1182.8
180°	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2

(END OF REPORT)