

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: P331322

Luminaire Tested: **S122DIP-S485D1080U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331322  
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: S122DIP-S485D1080U835-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 485 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: 5998.2 lumens  
Efficiency: N/A  
Efficacy: 121.4 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: Semi-Indirect

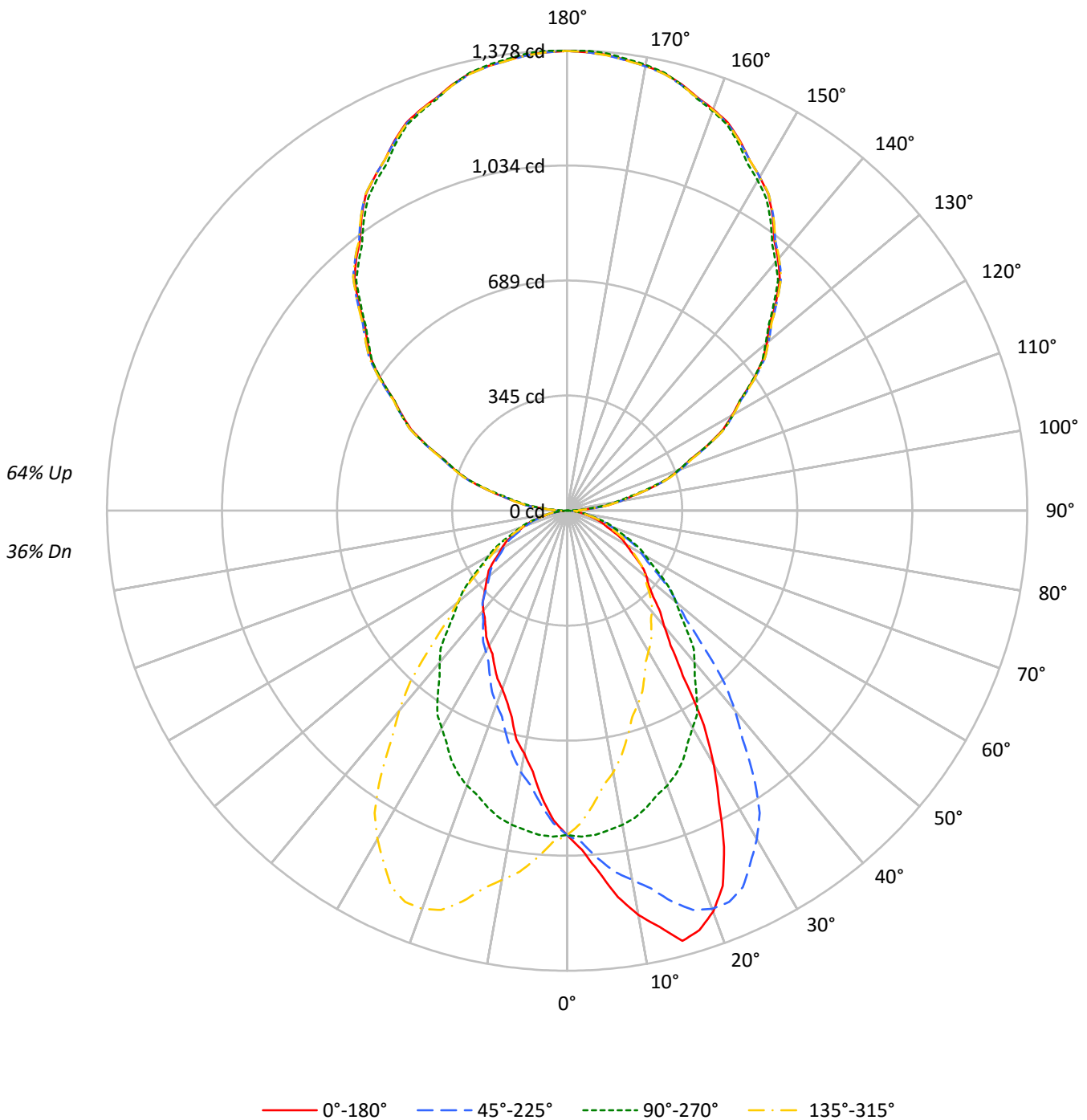
Input Watts (W): 49.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	104	104	104	94	94	94	94	75	75	75	59	59	59	43	43	43	36				
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31				
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	34	33	32	26				
3	79	70	63	58	72	64	58	53	52	48	44	41	38	36	31	29	27	23				
4	73	62	55	49	66	57	50	45	46	42	38	37	33	31	28	26	24	20				
5	67	56	48	42	60	51	44	39	42	37	33	33	30	27	25	23	21	17				
6	62	50	42	37	56	46	39	34	38	33	29	30	26	24	23	20	19	15				
7	57	45	37	32	51	41	35	30	34	29	25	27	24	21	21	19	17	14				
8	53	41	34	28	48	38	31	26	31	26	23	25	21	19	19	17	15	13				
9	49	37	30	25	45	34	28	24	29	24	20	23	19	17	18	15	14	11				
10	46	34	27	23	42	32	25	21	26	22	18	21	18	15	17	14	12	10				

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

	0°	90°	180°	270°
0°	15689	15689	15689	15689
5°	17590	15793	13994	15793
10°	20156	15662	12111	15662
15°	22298	15375	10700	15375
20°	21959	15067	9754	15067
25°	19800	14656	9155	14656
30°	16362	14001	8718	14001
35°	11925	13316	8406	13316
40°	9525	12507	8233	12507
45°	8323	11572	7999	11572
50°	7824	10665	7842	10665
55°	7212	9745	7631	9745
60°	6610	8767	7308	8767
65°	6021	7889	6991	7889
70°	5467	7034	6524	7034
75°	4847	6082	5777	6082
80°	4166	5040	4649	5040
85°	3742	3742	2760	3742



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.5	1.5
10°-20°	269.0	4.5
20°-30°	390.5	6.5
30°-40°	412.0	6.9
40°-50°	364.8	6.1
50°-60°	291.1	4.9
60°-70°	197.9	3.3
70°-80°	101.5	1.7
80°-90°	30.0	0.5
90°-100°	87.2	1.5
100°-110°	270.9	4.5
110°-120°	463.1	7.7
120°-130°	608.9	10.2
130°-140°	683.5	11.4
140°-150°	670.1	11.2
150°-160°	562.1	9.4
160°-170°	372.8	6.2
170°-180°	130.3	2.2
0°-30°	752.0	12.5
0°-40°	1164.1	19.4
0°-60°	1820.1	30.3
0°-90°	2149.4	35.8
90°-120°	821.2	13.7
90°-150°	2783.7	46.4
90°-180°	3849.0	64.2
0°-180°	5998.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	972	972	972	972	972	
5°	1085	974	863	974	1085	108
15°	1334	920	640	920	1334	368
25°	1111	823	514	823	1111	502
35°	605	676	426	676	605	393
45°	364	507	350	507	364	287
55°	256	346	271	346	256	230
65°	158	206	183	206	158	157
75°	78	98	93	98	78	83
85°	20	20	15	20	20	23
90°	40	1	40	1	40	18
95°	72	60	72	60	72	80
105°	258	250	258	250	258	271
115°	465	465	465	465	465	459
125°	678	676	678	676	678	605
135°	885	875	885	875	885	681
145°	1073	1062	1073	1062	1073	670
155°	1223	1214	1223	1214	1223	563
165°	1322	1321	1322	1321	1322	373
175°	1370	1374	1370	1374	1370	130
180°	1376	1376	1376	1376	1376	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	1016.6	1016.9	1017.4	1012.7	1012.1	1012.1	1007.9	1004.3	1000.1	994.4	995.0
5°	1085.3	1089.4	1090.9	1086.4	1079.7	1078.9	1072.6	1062.1	1052.4	1044.6	1039.0
7.5°	1167.3	1168.9	1165.3	1159.4	1154.4	1145.4	1133.6	1122.0	1105.8	1090.9	1079.9
10°	1229.4	1231.7	1225.3	1216.7	1209.6	1199.2	1182.0	1164.4	1143.2	1122.6	1106.2
12.5°	1276.6	1282.2	1274.0	1272.9	1260.7	1246.4	1225.9	1217.0	1187.1	1158.5	1140.8
15°	1334.0	1333.6	1334.4	1327.3	1318.3	1316.1	1294.4	1270.9	1228.7	1211.9	1182.7
17.5°	1317.4	1323.1	1325.7	1325.6	1325.4	1324.0	1317.0	1302.2	1281.0	1253.8	1220.2
20°	1278.0	1285.4	1286.6	1295.2	1300.0	1306.4	1309.0	1304.9	1291.8	1269.0	1239.9
22.5°	1217.0	1219.1	1222.6	1236.0	1246.5	1262.4	1270.7	1284.5	1279.5	1268.4	1244.1
25°	1111.4	1107.7	1120.7	1127.5	1151.7	1177.1	1195.4	1215.6	1233.5	1244.4	1237.3
27.5°	984.6	979.0	998.6	1016.4	1036.1	1063.6	1092.1	1125.8	1153.8	1188.9	1200.9
30°	877.6	881.0	899.7	918.7	948.6	987.4	1019.5	1056.5	1096.5	1135.7	1162.9
32.5°	762.3	775.2	787.0	816.2	842.5	885.8	932.9	979.1	1029.0	1073.5	1115.7
35°	605.0	619.9	636.4	657.7	694.6	737.6	783.5	845.9	913.9	974.7	1024.8
37.5°	509.2	506.9	516.3	531.7	561.6	596.3	649.1	710.8	790.8	862.3	932.9
40°	451.9	450.4	457.1	471.3	494.1	519.5	565.8	619.9	694.3	781.6	865.7
42.5°	412.4	413.3	417.1	427.1	442.7	463.6	498.3	544.4	612.4	694.7	785.0
45°	364.5	367.1	371.2	376.1	385.0	402.2	421.6	454.5	508.3	577.0	665.9
47.5°	330.0	330.1	334.2	338.5	343.8	353.5	369.4	390.0	427.9	483.9	560.3
50°	311.5	308.8	311.8	315.2	320.8	327.5	338.0	357.4	382.8	428.0	491.8
52.5°	288.8	288.8	291.5	292.8	297.8	304.5	314.1	327.5	350.5	385.9	438.4
55°	256.2	258.1	259.6	261.8	266.3	271.1	278.6	287.6	305.5	332.0	370.8
57.5°	225.6	226.2	227.7	231.9	234.8	239.2	246.3	254.5	266.1	285.8	315.0
60°	204.7	204.7	207.6	209.5	213.2	217.7	223.3	231.2	241.6	257.7	281.2
62.5°	185.5	185.2	186.4	189.5	192.3	196.5	202.1	208.8	218.6	232.9	252.2
65°	157.6	156.9	159.1	159.8	162.8	166.9	171.4	178.5	186.4	196.8	214.0
67.5°	130.7	131.6	132.8	134.2	135.9	140.2	143.2	148.2	154.8	163.5	175.2
70°	115.8	115.8	115.8	116.9	119.1	121.4	124.4	128.5	134.8	142.3	152.7
72.5°	99.0	100.2	101.4	100.8	103.6	104.9	108.5	110.8	116.9	121.7	130.9
75°	77.7	77.7	77.7	79.5	80.7	81.8	84.0	86.3	89.3	95.2	100.1
77.5°	58.0	57.8	58.2	58.6	59.8	61.2	61.8	63.9	66.6	69.4	73.5
80°	44.8	45.6	45.9	46.7	46.7	47.4	47.8	50.4	52.3	54.2	56.8
82.5°	34.7	34.8	34.9	35.0	35.3	35.8	36.7	37.6	38.2	39.8	41.8
85°	20.2	19.8	19.8	20.5	20.2	20.2	20.9	21.7	21.7	22.0	23.2
87.5°	15.7	15.6	15.9	15.5	15.5	15.8	15.9	15.7	16.1	16.5	15.7
90°	39.5	39.2	39.0	38.7	38.5	38.6	39.1	39.6	40.1	40.7	35.0
92.5°	37.6	37.6	37.5	37.5	37.4	37.4	37.2	37.1	37.0	36.9	35.6
95°	72.0	72.5	73.1	73.6	74.1	74.3	74.3	74.3	74.3	74.3	73.8
97.5°	124.8	124.8	124.9	124.9	125.0	125.0	125.0	125.0	125.0	125.0	124.0
100°	159.1	159.4	159.7	159.9	160.2	160.3	160.3	160.3	160.3	160.3	159.5
102.5°	198.2	198.4	198.7	198.9	199.2	199.2	199.0	198.8	198.6	198.4	197.4
105°	257.9	257.9	257.9	257.9	257.9	257.6	257.1	256.6	256.1	255.5	255.0
107.5°	314.1	315.3	316.5	317.7	318.8	319.3	319.1	318.9	318.7	318.5	318.5
110°	357.8	358.5	359.3	360.1	360.9	361.3	361.3	361.3	361.3	361.3	361.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	399.6	400.2	400.7	401.3	401.9	402.5	403.1	403.7	404.3	404.9	405.1
115°	464.6	465.4	466.2	467.0	467.7	468.2	468.5	468.8	469.0	469.3	469.8
117.5°	526.7	527.4	528.2	529.0	529.8	530.5	531.1	531.7	532.3	532.9	534.4
120°	570.3	571.1	571.9	572.7	573.4	573.8	573.8	573.8	573.8	573.8	575.9
122.5°	613.1	613.7	614.2	614.8	615.4	615.9	616.6	617.2	617.8	618.4	619.9
125°	678.4	678.6	678.9	679.1	679.4	679.9	680.7	681.5	682.2	683.0	683.8
127.5°	737.8	738.7	739.5	740.3	741.1	742.0	742.9	743.9	744.8	745.7	746.7
130°	780.6	781.6	782.6	783.7	784.7	785.5	786.0	786.5	787.0	787.6	788.1
132.5°	821.5	822.3	823.1	824.0	824.8	825.8	826.9	828.0	829.2	830.3	830.2
135°	885.1	885.9	886.7	887.4	888.2	888.7	889.0	889.3	889.5	889.8	889.3
137.5°	942.7	943.8	944.8	945.8	946.9	947.5	947.7	947.9	948.1	948.3	947.6
140°	982.7	983.7	984.8	985.8	986.8	987.3	987.3	987.3	987.3	987.3	986.1
142.5°	1018.9	1020.0	1021.0	1022.0	1023.1	1023.5	1023.3	1023.1	1022.9	1022.7	1021.8
145°	1073.3	1074.3	1075.4	1076.4	1077.4	1077.8	1077.6	1077.3	1077.0	1076.8	1075.2
147.5°	1121.9	1122.8	1123.8	1124.8	1125.8	1126.0	1125.4	1124.9	1124.3	1123.7	1122.7
150°	1153.5	1154.2	1155.0	1155.8	1156.6	1156.6	1155.8	1155.0	1154.2	1153.5	1152.4
152.5°	1183.2	1184.2	1185.2	1186.1	1187.1	1187.1	1186.1	1185.2	1184.2	1183.2	1182.0
155°	1223.1	1223.9	1224.7	1225.5	1226.2	1226.0	1224.7	1223.4	1222.1	1220.8	1220.1
157.5°	1257.5	1258.8	1260.0	1261.2	1262.5	1262.2	1260.5	1258.7	1257.0	1255.2	1254.7
160°	1278.9	1279.9	1281.0	1282.0	1283.0	1282.8	1281.2	1279.7	1278.1	1276.6	1276.3
162.5°	1297.5	1298.7	1300.0	1301.2	1302.4	1302.2	1300.4	1298.7	1296.9	1295.2	1294.9
165°	1321.9	1323.2	1324.5	1325.8	1327.0	1326.8	1325.0	1323.2	1321.4	1319.6	1319.6
167.5°	1341.9	1343.2	1344.5	1345.9	1347.2	1347.0	1345.2	1343.4	1341.6	1339.8	1339.8
170°	1352.1	1353.6	1355.2	1356.7	1358.3	1358.1	1356.3	1354.5	1352.7	1350.9	1351.2
172.5°	1360.4	1362.0	1363.5	1365.1	1366.6	1366.5	1364.7	1362.9	1361.1	1359.3	1359.5
175°	1369.5	1371.1	1372.6	1374.2	1375.7	1375.6	1373.8	1372.0	1370.2	1368.3	1368.9
177.5°	1373.7	1374.9	1376.2	1377.4	1378.6	1378.6	1377.4	1376.2	1374.9	1373.7	1374.1
180°	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	997.1	994.7	993.2	987.9	983.1	978.3	976.8	977.4	970.8	964.6	961.9
5°	1036.0	1028.5	1021.4	1011.3	999.4	986.3	979.6	974.4	961.3	947.1	938.9
7.5°	1070.8	1060.1	1046.4	1027.5	1010.1	989.5	976.4	964.9	945.7	925.7	913.5
10°	1092.0	1077.4	1059.9	1036.7	1015.4	990.4	972.9	955.3	932.9	909.0	894.1
12.5°	1110.2	1090.6	1073.3	1043.6	1018.4	987.1	966.3	941.6	918.0	889.6	874.9
15°	1153.6	1117.4	1084.5	1050.9	1019.9	976.2	953.1	919.8	888.8	853.7	836.9
17.5°	1187.1	1146.4	1094.7	1052.0	1015.8	967.4	933.4	893.6	856.9	816.8	794.0
20°	1206.3	1159.6	1103.9	1053.2	1009.8	954.6	917.6	876.9	833.9	788.7	764.1
22.5°	1217.6	1168.6	1113.5	1048.7	997.9	944.1	897.6	853.0	809.4	760.7	734.8
25°	1221.2	1176.4	1118.1	1044.9	982.9	922.1	866.0	822.7	770.1	724.5	686.8
27.5°	1203.4	1171.3	1115.3	1037.9	965.7	894.5	832.1	783.0	727.4	678.0	640.0
30°	1181.6	1162.9	1108.4	1030.7	951.9	875.4	806.7	751.0	695.8	645.7	606.9
32.5°	1147.9	1143.8	1095.9	1020.6	937.3	851.2	780.1	723.8	662.6	613.4	576.4
35°	1081.5	1099.5	1069.2	997.9	909.7	816.8	739.8	675.6	612.1	565.0	530.3
37.5°	992.7	1037.2	1029.3	964.6	872.5	779.3	694.3	627.2	566.7	519.2	485.1
40°	931.4	988.2	996.4	939.2	846.3	750.3	660.3	593.4	534.4	491.1	456.7
42.5°	865.7	932.0	954.6	908.8	817.6	719.8	629.8	560.6	502.2	460.0	429.6
45°	755.5	843.3	884.0	857.8	769.7	669.6	577.0	506.8	453.8	414.2	390.6
47.5°	652.5	748.4	803.2	793.9	716.4	617.3	525.8	458.4	406.8	375.2	354.1
50°	579.6	678.2	744.3	747.3	678.2	580.0	488.1	424.6	377.2	347.7	330.5
52.5°	516.3	610.4	682.5	698.3	635.5	541.1	454.3	391.2	349.4	322.3	306.9
55°	433.6	513.1	593.1	622.2	571.8	482.1	401.8	346.2	307.0	288.3	274.9
57.5°	360.5	426.8	500.6	532.8	501.7	425.0	349.7	301.4	269.6	253.2	242.9
60°	321.9	374.2	439.9	478.4	451.5	383.2	317.4	271.5	245.4	230.8	221.1
62.5°	286.1	332.4	387.9	423.1	408.5	344.0	285.2	244.6	222.1	208.4	201.4
65°	236.0	272.6	315.6	348.1	338.4	289.4	241.3	206.5	188.6	177.8	172.2
67.5°	194.3	220.8	250.6	279.0	271.2	236.5	197.9	170.8	157.4	148.1	144.8
70°	168.1	188.2	214.7	237.5	231.2	202.8	172.2	149.0	137.4	129.6	126.2
72.5°	143.0	159.5	179.8	198.4	194.1	170.5	145.0	127.5	118.6	111.4	108.6
75°	107.9	120.6	133.0	145.3	144.2	125.9	110.9	97.5	90.4	84.8	83.7
77.5°	79.7	86.8	95.2	102.5	100.5	90.0	78.3	70.6	65.4	61.6	61.0
80°	60.9	65.0	71.0	76.2	73.6	69.1	59.8	54.2	50.4	46.7	45.2
82.5°	44.1	48.3	51.8	54.7	52.7	48.5	42.7	38.9	36.7	34.1	33.5
85°	23.2	25.4	26.9	27.6	26.9	24.3	21.7	20.2	18.3	17.2	16.8
87.5°	14.8	13.7	12.6	12.3	10.8	10.1	8.3	6.8	7.1	7.4	7.5
90°	29.3	23.6	17.9	13.6	10.5	7.4	4.3	1.2	4.3	7.4	10.5
92.5°	34.3	32.9	31.6	29.8	27.5	25.2	22.9	20.7	22.9	25.2	27.5
95°	73.3	72.8	72.3	70.7	68.1	65.6	63.0	60.4	63.0	65.6	68.1
97.5°	123.0	122.0	121.1	119.4	117.2	114.9	112.6	110.4	112.6	114.9	117.2
100°	158.7	158.0	157.2	155.8	153.7	151.7	149.6	147.5	149.6	151.7	153.7
102.5°	196.4	195.5	194.5	193.2	191.5	189.9	188.2	186.6	188.2	189.9	191.5
105°	254.5	254.0	253.5	252.8	252.1	251.3	250.5	249.7	250.5	251.3	252.1
107.5°	318.5	318.5	318.5	317.9	316.8	315.7	314.5	313.4	314.5	315.7	316.8
110°	361.3	361.3	361.3	360.5	358.9	357.4	355.8	354.3	355.8	357.4	358.9





TEST NUMBER: P331322

CATALOG NUMBER: S122DIP-S485D1080U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	405.3	405.5	405.8	405.1	403.5	402.0	400.4	398.9	400.4	402.0	403.5
115°	470.3	470.8	471.3	470.8	469.3	467.7	466.2	464.6	466.2	467.7	469.3
117.5°	535.8	537.3	538.7	538.4	536.3	534.3	532.2	530.1	532.2	534.3	536.3
120°	578.0	580.0	582.1	582.1	580.0	578.0	575.9	573.8	575.9	578.0	580.0
122.5°	621.3	622.8	624.2	623.7	621.2	618.7	616.3	613.8	616.3	618.7	621.2
125°	684.6	685.3	686.1	685.3	683.0	680.7	678.4	676.0	678.4	680.7	683.0
127.5°	747.6	748.5	749.5	748.4	745.5	742.6	739.6	736.7	739.6	742.6	745.5
130°	788.6	789.1	789.6	788.2	784.8	781.5	778.1	774.8	778.1	781.5	784.8
132.5°	830.1	830.0	829.9	828.5	825.7	823.0	820.3	817.5	820.3	823.0	825.7
135°	888.7	888.2	887.7	886.0	883.2	880.4	877.5	874.7	877.5	880.4	883.2
137.5°	947.0	946.3	945.6	944.1	941.8	939.5	937.2	934.8	937.2	939.5	941.8
140°	984.8	983.5	982.2	980.4	978.1	975.7	973.4	971.1	973.4	975.7	978.1
142.5°	1020.9	1020.0	1019.1	1017.5	1015.2	1012.9	1010.6	1008.3	1010.6	1012.9	1015.2
145°	1073.7	1072.1	1070.6	1068.9	1067.1	1065.3	1063.5	1061.7	1063.5	1065.3	1067.1
147.5°	1121.7	1120.6	1119.6	1118.0	1115.8	1113.6	1111.5	1109.3	1111.5	1113.6	1115.8
150°	1151.4	1150.4	1149.3	1148.0	1146.5	1144.9	1143.4	1141.8	1143.4	1144.9	1146.5
152.5°	1180.7	1179.5	1178.2	1176.8	1175.3	1173.7	1172.2	1170.6	1172.2	1173.7	1175.3
155°	1219.3	1218.5	1217.7	1217.0	1216.2	1215.4	1214.6	1213.9	1214.6	1215.4	1216.2
157.5°	1254.3	1253.8	1253.3	1252.9	1252.3	1251.8	1251.3	1250.8	1251.3	1251.8	1252.3
160°	1276.1	1275.8	1275.5	1275.2	1274.6	1274.1	1273.6	1273.1	1273.6	1274.1	1274.6
162.5°	1294.6	1294.4	1294.1	1294.0	1293.8	1293.7	1293.6	1293.5	1293.6	1293.7	1293.8
165°	1319.6	1319.6	1319.6	1319.7	1319.9	1320.2	1320.5	1320.7	1320.5	1320.2	1319.9
167.5°	1339.9	1339.9	1340.0	1340.4	1341.2	1341.9	1342.7	1343.5	1342.7	1341.9	1341.2
170°	1351.4	1351.7	1352.0	1352.5	1353.2	1354.0	1354.8	1355.6	1354.8	1354.0	1353.2
172.5°	1359.8	1360.1	1360.3	1360.8	1361.6	1362.4	1363.2	1363.9	1363.2	1362.4	1361.6
175°	1369.4	1369.9	1370.4	1371.1	1371.8	1372.6	1373.4	1374.2	1373.4	1372.6	1371.8
177.5°	1374.5	1374.9	1375.3	1375.9	1376.5	1377.1	1377.7	1378.3	1377.7	1377.1	1376.5
180°	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5



TEST NUMBER: P331322

CATALOG NUMBER: S122DIP-S485D1080U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	958.9	957.1	950.8	947.5	942.2	937.1	933.8	935.3	936.5	935.9	935.0
5°	931.4	924.3	913.5	904.1	897.4	885.1	879.9	877.3	875.0	872.4	869.8
7.5°	898.7	887.5	872.0	858.7	846.1	830.8	822.1	816.8	811.4	805.5	800.3
10°	875.4	859.7	843.3	824.6	809.7	795.8	783.5	775.3	767.8	760.7	755.5
12.5°	850.9	832.8	812.5	787.0	770.5	750.7	748.9	734.4	722.7	718.3	712.2
15°	811.9	786.5	760.7	730.5	717.4	699.5	688.3	677.1	667.0	659.9	658.0
17.5°	767.6	734.7	709.1	687.4	666.0	647.6	637.3	628.3	620.0	610.5	609.3
20°	733.8	705.5	677.5	658.4	636.4	617.7	605.0	596.0	588.9	583.3	578.5
22.5°	701.9	670.8	645.2	624.3	602.6	587.5	577.5	568.9	563.0	556.8	552.2
25°	650.6	626.3	598.3	574.8	556.8	547.1	538.9	531.4	527.7	523.6	518.4
27.5°	605.7	578.7	552.5	534.3	518.5	509.9	504.1	499.0	495.5	493.1	490.1
30°	574.0	546.7	526.2	508.3	495.2	486.6	482.9	479.9	475.8	474.3	472.8
32.5°	543.5	519.0	501.4	485.9	473.4	467.8	464.4	461.7	458.5	457.0	454.0
35°	500.4	479.9	462.7	454.1	444.0	439.2	436.6	432.8	429.9	428.4	428.0
37.5°	459.9	442.0	430.7	419.7	415.4	412.4	408.9	406.3	405.4	405.2	404.8
40°	433.6	419.0	408.9	400.0	398.1	393.6	390.6	388.4	388.4	388.8	388.4
42.5°	409.7	396.6	387.7	380.0	377.8	375.1	372.1	372.0	372.6	373.8	372.6
45°	373.5	364.1	357.8	354.0	349.9	347.3	346.9	348.1	348.4	348.8	349.9
47.5°	340.1	333.9	328.2	324.1	322.3	321.8	321.4	323.3	325.1	325.8	327.5
50°	320.4	313.3	308.5	305.9	304.4	303.6	304.4	306.6	308.1	310.0	311.1
52.5°	298.3	293.3	290.0	287.9	287.3	287.8	287.9	290.5	292.9	293.5	294.1
55°	267.8	264.0	263.3	259.9	261.4	261.0	262.9	264.4	266.6	268.9	269.3
57.5°	237.3	234.3	232.3	232.6	233.0	234.7	236.2	238.9	241.3	243.6	243.9
60°	217.0	215.5	214.4	214.4	215.1	217.4	219.2	221.8	223.3	224.8	225.9
62.5°	198.5	197.0	195.8	196.4	198.4	199.7	201.9	203.3	204.8	206.3	206.8
65°	169.2	168.4	169.6	170.3	170.7	172.5	175.2	176.3	177.8	178.5	181.1
67.5°	142.2	142.4	142.2	143.3	145.4	145.9	148.3	151.0	151.3	152.7	154.4
70°	124.0	124.7	125.5	126.2	128.1	128.8	130.7	131.8	133.3	134.4	135.6
72.5°	107.3	107.4	108.2	108.0	109.6	111.2	112.8	113.9	115.4	116.8	117.9
75°	82.5	82.5	83.3	83.7	85.5	87.4	87.0	87.8	89.3	90.8	91.5
77.5°	60.3	59.5	60.3	60.6	61.2	62.8	63.1	64.2	65.9	65.4	66.2
80°	45.9	44.8	45.9	46.3	46.3	48.2	48.2	48.9	50.0	48.9	50.0
82.5°	32.8	32.3	33.1	33.2	33.8	33.8	34.4	34.6	35.7	35.2	35.7
85°	16.4	16.1	16.4	16.1	16.4	16.8	16.8	16.4	16.4	17.2	16.1
87.5°	7.8	8.4	9.2	10.3	11.2	12.0	11.6	11.5	11.4	10.7	10.7
90°	13.6	17.9	23.6	29.3	35.0	40.7	40.1	39.6	39.1	38.6	38.5
92.5°	29.8	31.6	32.9	34.3	35.6	36.9	37.0	37.1	37.2	37.4	37.4
95°	70.7	72.3	72.8	73.3	73.8	74.3	74.3	74.3	74.3	74.3	74.1
97.5°	119.4	121.1	122.0	123.0	124.0	125.0	125.0	125.0	125.0	125.0	125.0
100°	155.8	157.2	158.0	158.7	159.5	160.3	160.3	160.3	160.3	160.3	160.2
102.5°	193.2	194.5	195.5	196.4	197.4	198.4	198.6	198.8	199.0	199.2	199.2
105°	252.8	253.5	254.0	254.5	255.0	255.5	256.1	256.6	257.1	257.6	257.9
107.5°	317.9	318.5	318.5	318.5	318.5	318.5	318.7	318.9	319.1	319.3	318.8
110°	360.5	361.3	361.3	361.3	361.3	361.3	361.3	361.3	361.3	361.3	360.9



TEST NUMBER: P331322

CATALOG NUMBER: S122DIP-S485D1080U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	405.1	405.8	405.5	405.3	405.1	404.9	404.3	403.7	403.1	402.5	401.9
115°	470.8	471.3	470.8	470.3	469.8	469.3	469.0	468.8	468.5	468.2	467.7
117.5°	538.4	538.7	537.3	535.8	534.4	532.9	532.3	531.7	531.1	530.5	529.8
120°	582.1	582.1	580.0	578.0	575.9	573.8	573.8	573.8	573.8	573.8	573.4
122.5°	623.7	624.2	622.8	621.3	619.9	618.4	617.8	617.2	616.6	615.9	615.4
125°	685.3	686.1	685.3	684.6	683.8	683.0	682.2	681.5	680.7	679.9	679.4
127.5°	748.4	749.5	748.5	747.6	746.7	745.7	744.8	743.9	742.9	742.0	741.1
130°	788.2	789.6	789.1	788.6	788.1	787.6	787.0	786.5	786.0	785.5	784.7
132.5°	828.5	829.9	830.0	830.1	830.2	830.3	829.2	828.0	826.9	825.8	824.8
135°	886.0	887.7	888.2	888.7	889.3	889.8	889.5	889.3	889.0	888.7	888.2
137.5°	944.1	945.6	946.3	947.0	947.6	948.3	948.1	947.9	947.7	947.5	946.9
140°	980.4	982.2	983.5	984.8	986.1	987.3	987.3	987.3	987.3	987.3	986.8
142.5°	1017.5	1019.1	1020.0	1020.9	1021.8	1022.7	1022.9	1023.1	1023.3	1023.5	1023.1
145°	1068.9	1070.6	1072.1	1073.7	1075.2	1076.8	1077.0	1077.3	1077.6	1077.8	1077.4
147.5°	1118.0	1119.6	1120.6	1121.7	1122.7	1123.7	1124.3	1124.9	1125.4	1126.0	1125.8
150°	1148.0	1149.3	1150.4	1151.4	1152.4	1153.5	1154.2	1155.0	1155.8	1156.6	1156.6
152.5°	1176.8	1178.2	1179.5	1180.7	1182.0	1183.2	1184.2	1185.2	1186.1	1187.1	1187.1
155°	1217.0	1217.7	1218.5	1219.3	1220.1	1220.8	1222.1	1223.4	1224.7	1226.0	1226.2
157.5°	1252.9	1253.3	1253.8	1254.3	1254.7	1255.2	1257.0	1258.7	1260.5	1262.2	1262.5
160°	1275.2	1275.5	1275.8	1276.1	1276.3	1276.6	1278.1	1279.7	1281.2	1282.8	1283.0
162.5°	1294.0	1294.1	1294.4	1294.6	1294.9	1295.2	1296.9	1298.7	1300.4	1302.2	1302.4
165°	1319.7	1319.6	1319.6	1319.6	1319.6	1319.6	1321.4	1323.2	1325.0	1326.8	1327.0
167.5°	1340.4	1340.0	1339.9	1339.9	1339.8	1339.8	1341.6	1343.4	1345.2	1347.0	1347.2
170°	1352.5	1352.0	1351.7	1351.4	1351.2	1350.9	1352.7	1354.5	1356.3	1358.1	1358.3
172.5°	1360.8	1360.3	1360.1	1359.8	1359.5	1359.3	1361.1	1362.9	1364.7	1366.5	1366.6
175°	1371.1	1370.4	1369.9	1369.4	1368.9	1368.3	1370.2	1372.0	1373.8	1375.6	1375.7
177.5°	1375.9	1375.3	1374.9	1374.5	1374.1	1373.7	1374.9	1376.2	1377.4	1378.6	1378.6
180°	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5



TEST NUMBER: P331322

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	932.0	931.4	931.4	928.7	931.4	931.4	932.0	935.0	935.9	936.5	935.3
5°	864.6	863.4	861.6	863.4	861.6	863.4	864.6	869.8	872.4	875.0	877.3
7.5°	797.9	793.4	792.7	788.3	792.7	793.4	797.9	800.3	805.5	811.4	816.8
10°	749.2	746.2	745.8	738.7	745.8	746.2	749.2	755.5	760.7	767.8	775.3
12.5°	712.1	704.9	706.4	702.3	706.4	704.9	712.1	712.2	718.3	722.7	734.4
15°	647.9	647.9	646.5	640.1	646.5	647.9	647.9	658.0	659.9	667.0	677.1
17.5°	601.9	601.1	597.5	599.3	597.5	601.1	601.9	609.3	610.5	620.0	628.3
20°	574.4	572.1	567.7	567.7	567.7	572.1	574.4	578.5	583.3	588.9	596.0
22.5°	548.4	548.2	543.5	545.0	543.5	548.2	548.4	552.2	556.8	563.0	568.9
25°	518.0	515.0	512.8	513.9	512.8	515.0	518.0	518.4	523.6	527.7	531.4
27.5°	489.2	487.5	487.4	484.3	487.4	487.5	489.2	490.1	493.1	495.5	499.0
30°	472.4	468.7	469.4	467.6	469.4	468.7	472.4	472.8	474.3	475.8	479.9
32.5°	453.3	452.0	451.2	449.6	451.2	452.0	453.3	454.0	457.0	458.5	461.7
35°	427.2	427.6	425.7	426.5	425.7	427.6	427.2	428.0	428.4	429.9	432.8
37.5°	404.5	405.7	404.8	405.0	404.8	405.7	404.5	404.8	405.2	405.4	406.3
40°	389.5	389.5	389.5	390.6	389.5	389.5	389.5	388.4	388.8	388.4	388.4
42.5°	375.2	374.6	374.0	373.9	374.0	374.6	375.2	372.6	373.8	372.6	372.0
45°	350.7	351.8	352.2	350.3	352.2	351.8	350.7	349.9	348.8	348.4	348.1
47.5°	328.5	328.6	328.5	330.1	328.5	328.6	328.5	327.5	325.8	325.1	323.3
50°	313.0	312.2	313.0	312.2	313.0	312.2	313.0	311.1	310.0	308.1	306.6
52.5°	296.5	296.7	296.2	296.1	296.2	296.7	296.5	294.1	293.5	292.9	290.5
55°	270.8	271.5	271.1	271.1	271.1	271.5	270.8	269.3	268.9	266.6	264.4
57.5°	244.1	244.8	245.3	243.6	245.3	244.8	244.1	243.9	243.6	241.3	238.9
60°	225.6	227.4	227.1	226.3	227.1	227.4	225.6	225.9	224.8	223.3	221.8
62.5°	208.5	209.2	209.1	209.0	209.1	209.2	208.5	206.8	206.3	204.8	203.3
65°	182.2	183.0	181.9	183.0	181.9	183.0	182.2	181.1	178.5	177.8	176.3
67.5°	153.9	154.2	155.0	155.5	155.0	154.2	153.9	154.4	152.7	151.3	151.0
70°	136.3	135.9	137.1	138.2	137.1	135.9	136.3	135.6	134.4	133.3	131.8
72.5°	117.8	118.6	118.2	119.1	118.2	118.6	117.8	117.9	116.8	115.4	113.9
75°	90.8	91.9	91.5	92.6	91.5	91.9	90.8	91.5	90.8	89.3	87.8
77.5°	65.6	65.7	65.6	66.2	65.6	65.7	65.6	66.2	65.4	65.9	64.2
80°	50.0	49.3	48.5	50.0	48.5	49.3	50.0	50.0	48.9	50.0	48.9
82.5°	34.8	35.3	34.5	34.5	34.5	35.3	34.8	35.7	35.2	35.7	34.6
85°	16.1	15.7	14.9	14.9	14.9	15.7	16.1	16.1	17.2	16.4	16.4
87.5°	10.7	10.5	10.5	10.3	10.5	10.5	10.7	10.7	10.7	11.4	11.5
90°	38.7	39.0	39.2	39.5	39.2	39.0	38.7	38.5	38.6	39.1	39.6
92.5°	37.5	37.5	37.6	37.6	37.6	37.5	37.5	37.4	37.4	37.2	37.1
95°	73.6	73.1	72.5	72.0	72.5	73.1	73.6	74.1	74.3	74.3	74.3
97.5°	124.9	124.9	124.8	124.8	124.8	124.9	124.9	125.0	125.0	125.0	125.0
100°	159.9	159.7	159.4	159.1	159.4	159.7	159.9	160.2	160.3	160.3	160.3
102.5°	198.9	198.7	198.4	198.2	198.4	198.7	198.9	199.2	199.2	199.0	198.8
105°	257.9	257.9	257.9	257.9	257.9	257.9	257.9	257.9	257.6	257.1	256.6
107.5°	317.7	316.5	315.3	314.1	315.3	316.5	317.7	318.8	319.3	319.1	318.9
110°	360.1	359.3	358.5	357.8	358.5	359.3	360.1	360.9	361.3	361.3	361.3



TEST NUMBER: P331322

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	401.3	400.7	400.2	399.6	400.2	400.7	401.3	401.9	402.5	403.1	403.7
115°	467.0	466.2	465.4	464.6	465.4	466.2	467.0	467.7	468.2	468.5	468.8
117.5°	529.0	528.2	527.4	526.7	527.4	528.2	529.0	529.8	530.5	531.1	531.7
120°	572.7	571.9	571.1	570.3	571.1	571.9	572.7	573.4	573.8	573.8	573.8
122.5°	614.8	614.2	613.7	613.1	613.7	614.2	614.8	615.4	615.9	616.6	617.2
125°	679.1	678.9	678.6	678.4	678.6	678.9	679.1	679.4	679.9	680.7	681.5
127.5°	740.3	739.5	738.7	737.8	738.7	739.5	740.3	741.1	742.0	742.9	743.9
130°	783.7	782.6	781.6	780.6	781.6	782.6	783.7	784.7	785.5	786.0	786.5
132.5°	824.0	823.1	822.3	821.5	822.3	823.1	824.0	824.8	825.8	826.9	828.0
135°	887.4	886.7	885.9	885.1	885.9	886.7	887.4	888.2	888.7	889.0	889.3
137.5°	945.8	944.8	943.8	942.7	943.8	944.8	945.8	946.9	947.5	947.7	947.9
140°	985.8	984.8	983.7	982.7	983.7	984.8	985.8	986.8	987.3	987.3	987.3
142.5°	1022.0	1021.0	1020.0	1018.9	1020.0	1021.0	1022.0	1023.1	1023.5	1023.3	1023.1
145°	1076.4	1075.4	1074.3	1073.3	1074.3	1075.4	1076.4	1077.4	1077.8	1077.6	1077.3
147.5°	1124.8	1123.8	1122.8	1121.9	1122.8	1123.8	1124.8	1125.8	1126.0	1125.4	1124.9
150°	1155.8	1155.0	1154.2	1153.5	1154.2	1155.0	1155.8	1156.6	1156.6	1155.8	1155.0
152.5°	1186.1	1185.2	1184.2	1183.2	1184.2	1185.2	1186.1	1187.1	1187.1	1186.1	1185.2
155°	1225.5	1224.7	1223.9	1223.1	1223.9	1224.7	1225.5	1226.2	1226.0	1224.7	1223.4
157.5°	1261.2	1260.0	1258.8	1257.5	1258.8	1260.0	1261.2	1262.5	1262.2	1260.5	1258.7
160°	1282.0	1281.0	1279.9	1278.9	1279.9	1281.0	1282.0	1283.0	1282.8	1281.2	1279.7
162.5°	1301.2	1300.0	1298.7	1297.5	1298.7	1300.0	1301.2	1302.4	1302.2	1300.4	1298.7
165°	1325.8	1324.5	1323.2	1321.9	1323.2	1324.5	1325.8	1327.0	1326.8	1325.0	1323.2
167.5°	1345.9	1344.5	1343.2	1341.9	1343.2	1344.5	1345.9	1347.2	1347.0	1345.2	1343.4
170°	1356.7	1355.2	1353.6	1352.1	1353.6	1355.2	1356.7	1358.3	1358.1	1356.3	1354.5
172.5°	1365.1	1363.5	1362.0	1360.4	1362.0	1363.5	1365.1	1366.6	1366.5	1364.7	1362.9
175°	1374.2	1372.6	1371.1	1369.5	1371.1	1372.6	1374.2	1375.7	1375.6	1373.8	1372.0
177.5°	1377.4	1376.2	1374.9	1373.7	1374.9	1376.2	1377.4	1378.6	1378.6	1377.4	1376.2
180°	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	933.8	937.1	942.2	947.5	950.8	957.1	958.9	961.9	964.6	970.8	977.4
5°	879.9	885.1	897.4	904.1	913.5	924.3	931.4	938.9	947.1	961.3	974.4
7.5°	822.1	830.8	846.1	858.7	872.0	887.5	898.7	913.5	925.7	945.7	964.9
10°	783.5	795.8	809.7	824.6	843.3	859.7	875.4	894.1	909.0	932.9	955.3
12.5°	748.9	750.7	770.5	787.0	812.5	832.8	850.9	874.9	889.6	918.0	941.6
15°	688.3	699.5	717.4	730.5	760.7	786.5	811.9	836.9	853.7	888.8	919.8
17.5°	637.3	647.6	666.0	687.4	709.1	734.7	767.6	794.0	816.8	856.9	893.6
20°	605.0	617.7	636.4	658.4	677.5	705.5	733.8	764.1	788.7	833.9	876.9
22.5°	577.5	587.5	602.6	624.3	645.2	670.8	701.9	734.8	760.7	809.4	853.0
25°	538.9	547.1	556.8	574.8	598.3	626.3	650.6	686.8	724.5	770.1	822.7
27.5°	504.1	509.9	518.5	534.3	552.5	578.7	605.7	640.0	678.0	727.4	783.0
30°	482.9	486.6	495.2	508.3	526.2	546.7	574.0	606.9	645.7	695.8	751.0
32.5°	464.4	467.8	473.4	485.9	501.4	519.0	543.5	576.4	613.4	662.6	723.8
35°	436.6	439.2	444.0	454.1	462.7	479.9	500.4	530.3	565.0	612.1	675.6
37.5°	408.9	412.4	415.4	419.7	430.7	442.0	459.9	485.1	519.2	566.7	627.2
40°	390.6	393.6	398.1	400.0	408.9	419.0	433.6	456.7	491.1	534.4	593.4
42.5°	372.1	375.1	377.8	380.0	387.7	396.6	409.7	429.6	460.0	502.2	560.6
45°	346.9	347.3	349.9	354.0	357.8	364.1	373.5	390.6	414.2	453.8	506.8
47.5°	321.4	321.8	322.3	324.1	328.2	333.9	340.1	354.1	375.2	406.8	458.4
50°	304.4	303.6	304.4	305.9	308.5	313.3	320.4	330.5	347.7	377.2	424.6
52.5°	287.9	287.8	287.3	287.9	290.0	293.3	298.3	306.9	322.3	349.4	391.2
55°	262.9	261.0	261.4	259.9	263.3	264.0	267.8	274.9	288.3	307.0	346.2
57.5°	236.2	234.7	233.0	232.6	232.3	234.3	237.3	242.9	253.2	269.6	301.4
60°	219.2	217.4	215.1	214.4	214.4	215.5	217.0	221.1	230.8	245.4	271.5
62.5°	201.9	199.7	198.4	196.4	195.8	197.0	198.5	201.4	208.4	222.1	244.6
65°	175.2	172.5	170.7	170.3	169.6	168.4	169.2	172.2	177.8	188.6	206.5
67.5°	148.3	145.9	145.4	143.3	142.2	142.4	142.2	144.8	148.1	157.4	170.8
70°	130.7	128.8	128.1	126.2	125.5	124.7	124.0	126.2	129.6	137.4	149.0
72.5°	112.8	111.2	109.6	108.0	108.2	107.4	107.3	108.6	111.4	118.6	127.5
75°	87.0	87.4	85.5	83.7	83.3	82.5	82.5	83.7	84.8	90.4	97.5
77.5°	63.1	62.8	61.2	60.6	60.3	59.5	60.3	61.0	61.6	65.4	70.6
80°	48.2	48.2	46.3	46.3	45.9	44.8	45.9	45.2	46.7	50.4	54.2
82.5°	34.4	33.8	33.8	33.2	33.1	32.3	32.8	33.5	34.1	36.7	38.9
85°	16.8	16.8	16.4	16.1	16.4	16.1	16.4	16.8	17.2	18.3	20.2
87.5°	11.6	12.0	11.2	10.3	9.2	8.4	7.8	7.5	7.4	7.1	6.8
90°	40.1	40.7	35.0	29.3	23.6	17.9	13.6	10.5	7.4	4.3	1.2
92.5°	37.0	36.9	35.6	34.3	32.9	31.6	29.8	27.5	25.2	22.9	20.7
95°	74.3	74.3	73.8	73.3	72.8	72.3	70.7	68.1	65.6	63.0	60.4
97.5°	125.0	125.0	124.0	123.0	122.0	121.1	119.4	117.2	114.9	112.6	110.4
100°	160.3	160.3	159.5	158.7	158.0	157.2	155.8	153.7	151.7	149.6	147.5
102.5°	198.6	198.4	197.4	196.4	195.5	194.5	193.2	191.5	189.9	188.2	186.6
105°	256.1	255.5	255.0	254.5	254.0	253.5	252.8	252.1	251.3	250.5	249.7
107.5°	318.7	318.5	318.5	318.5	318.5	318.5	317.9	316.8	315.7	314.5	313.4
110°	361.3	361.3	361.3	361.3	361.3	361.3	360.5	358.9	357.4	355.8	354.3



TEST NUMBER: P331322

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	404.3	404.9	405.1	405.3	405.5	405.8	405.1	403.5	402.0	400.4	398.9
115°	469.0	469.3	469.8	470.3	470.8	471.3	470.8	469.3	467.7	466.2	464.6
117.5°	532.3	532.9	534.4	535.8	537.3	538.7	538.4	536.3	534.3	532.2	530.1
120°	573.8	573.8	575.9	578.0	580.0	582.1	582.1	580.0	578.0	575.9	573.8
122.5°	617.8	618.4	619.9	621.3	622.8	624.2	623.7	621.2	618.7	616.3	613.8
125°	682.2	683.0	683.8	684.6	685.3	686.1	685.3	683.0	680.7	678.4	676.0
127.5°	744.8	745.7	746.7	747.6	748.5	749.5	748.4	745.5	742.6	739.6	736.7
130°	787.0	787.6	788.1	788.6	789.1	789.6	788.2	784.8	781.5	778.1	774.8
132.5°	829.2	830.3	830.2	830.1	830.0	829.9	828.5	825.7	823.0	820.3	817.5
135°	889.5	889.8	889.3	888.7	888.2	887.7	886.0	883.2	880.4	877.5	874.7
137.5°	948.1	948.3	947.6	947.0	946.3	945.6	944.1	941.8	939.5	937.2	934.8
140°	987.3	987.3	986.1	984.8	983.5	982.2	980.4	978.1	975.7	973.4	971.1
142.5°	1022.9	1022.7	1021.8	1020.9	1020.0	1019.1	1017.5	1015.2	1012.9	1010.6	1008.3
145°	1077.0	1076.8	1075.2	1073.7	1072.1	1070.6	1068.9	1067.1	1065.3	1063.5	1061.7
147.5°	1124.3	1123.7	1122.7	1121.7	1120.6	1119.6	1118.0	1115.8	1113.6	1111.5	1109.3
150°	1154.2	1153.5	1152.4	1151.4	1150.4	1149.3	1148.0	1146.5	1144.9	1143.4	1141.8
152.5°	1184.2	1183.2	1182.0	1180.7	1179.5	1178.2	1176.8	1175.3	1173.7	1172.2	1170.6
155°	1222.1	1220.8	1220.1	1219.3	1218.5	1217.7	1217.0	1216.2	1215.4	1214.6	1213.9
157.5°	1257.0	1255.2	1254.7	1254.3	1253.8	1253.3	1252.9	1252.3	1251.8	1251.3	1250.8
160°	1278.1	1276.6	1276.3	1276.1	1275.8	1275.5	1275.2	1274.6	1274.1	1273.6	1273.1
162.5°	1296.9	1295.2	1294.9	1294.6	1294.4	1294.1	1294.0	1293.8	1293.7	1293.6	1293.5
165°	1321.4	1319.6	1319.6	1319.6	1319.6	1319.6	1319.7	1319.9	1320.2	1320.5	1320.7
167.5°	1341.6	1339.8	1339.8	1339.9	1339.9	1340.0	1340.4	1341.2	1341.9	1342.7	1343.5
170°	1352.7	1350.9	1351.2	1351.4	1351.7	1352.0	1352.5	1353.2	1354.0	1354.8	1355.6
172.5°	1361.1	1359.3	1359.5	1359.8	1360.1	1360.3	1360.8	1361.6	1362.4	1363.2	1363.9
175°	1370.2	1368.3	1368.9	1369.4	1369.9	1370.4	1371.1	1371.8	1372.6	1373.4	1374.2
177.5°	1374.9	1373.7	1374.1	1374.5	1374.9	1375.3	1375.9	1376.5	1377.1	1377.7	1378.3
180°	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	976.8	978.3	983.1	987.9	993.2	994.7	997.1	995.0	994.4	1000.1	1004.3
5°	979.6	986.3	999.4	1011.3	1021.4	1028.5	1036.0	1039.0	1044.6	1052.4	1062.1
7.5°	976.4	989.5	1010.1	1027.5	1046.4	1060.1	1070.8	1079.9	1090.9	1105.8	1122.0
10°	972.9	990.4	1015.4	1036.7	1059.9	1077.4	1092.0	1106.2	1122.6	1143.2	1164.4
12.5°	966.3	987.1	1018.4	1043.6	1073.3	1090.6	1110.2	1140.8	1158.5	1187.1	1217.0
15°	953.1	976.2	1019.9	1050.9	1084.5	1117.4	1153.6	1182.7	1211.9	1228.7	1270.9
17.5°	933.4	967.4	1015.8	1052.0	1094.7	1146.4	1187.1	1220.2	1253.8	1281.0	1302.2
20°	917.6	954.6	1009.8	1053.2	1103.9	1159.6	1206.3	1239.9	1269.0	1291.8	1304.9
22.5°	897.6	944.1	997.9	1048.7	1113.5	1168.6	1217.6	1244.1	1268.4	1279.5	1284.5
25°	866.0	922.1	982.9	1044.9	1118.1	1176.4	1221.2	1237.3	1244.4	1233.5	1215.6
27.5°	832.1	894.5	965.7	1037.9	1115.3	1171.3	1203.4	1200.9	1188.9	1153.8	1125.8
30°	806.7	875.4	951.9	1030.7	1108.4	1162.9	1181.6	1162.9	1135.7	1096.5	1056.5
32.5°	780.1	851.2	937.3	1020.6	1095.9	1143.8	1147.9	1115.7	1073.5	1029.0	979.1
35°	739.8	816.8	909.7	997.9	1069.2	1099.5	1081.5	1024.8	974.7	913.9	845.9
37.5°	694.3	779.3	872.5	964.6	1029.3	1037.2	992.7	932.9	862.3	790.8	710.8
40°	660.3	750.3	846.3	939.2	996.4	988.2	931.4	865.7	781.6	694.3	619.9
42.5°	629.8	719.8	817.6	908.8	954.6	932.0	865.7	785.0	694.7	612.4	544.4
45°	577.0	669.6	769.7	857.8	884.0	843.3	755.5	665.9	577.0	508.3	454.5
47.5°	525.8	617.3	716.4	793.9	803.2	748.4	652.5	560.3	483.9	427.9	390.0
50°	488.1	580.0	678.2	747.3	744.3	678.2	579.6	491.8	428.0	382.8	357.4
52.5°	454.3	541.1	635.5	698.3	682.5	610.4	516.3	438.4	385.9	350.5	327.5
55°	401.8	482.1	571.8	622.2	593.1	513.1	433.6	370.8	332.0	305.5	287.6
57.5°	349.7	425.0	501.7	532.8	500.6	426.8	360.5	315.0	285.8	266.1	254.5
60°	317.4	383.2	451.5	478.4	439.9	374.2	321.9	281.2	257.7	241.6	231.2
62.5°	285.2	344.0	408.5	423.1	387.9	332.4	286.1	252.2	232.9	218.6	208.8
65°	241.3	289.4	338.4	348.1	315.6	272.6	236.0	214.0	196.8	186.4	178.5
67.5°	197.9	236.5	271.2	279.0	250.6	220.8	194.3	175.2	163.5	154.8	148.2
70°	172.2	202.8	231.2	237.5	214.7	188.2	168.1	152.7	142.3	134.8	128.5
72.5°	145.0	170.5	194.1	198.4	179.8	159.5	143.0	130.9	121.7	116.9	110.8
75°	110.9	125.9	144.2	145.3	133.0	120.6	107.9	100.1	95.2	89.3	86.3
77.5°	78.3	90.0	100.5	102.5	95.2	86.8	79.7	73.5	69.4	66.6	63.9
80°	59.8	69.1	73.6	76.2	71.0	65.0	60.9	56.8	54.2	52.3	50.4
82.5°	42.7	48.5	52.7	54.7	51.8	48.3	44.1	41.8	39.8	38.2	37.6
85°	21.7	24.3	26.9	27.6	26.9	25.4	23.2	23.2	22.0	21.7	21.7
87.5°	8.3	10.1	10.8	12.3	12.6	13.7	14.8	15.7	16.5	16.1	15.7
90°	4.3	7.4	10.5	13.6	17.9	23.6	29.3	35.0	40.7	40.1	39.6
92.5°	22.9	25.2	27.5	29.8	31.6	32.9	34.3	35.6	36.9	37.0	37.1
95°	63.0	65.6	68.1	70.7	72.3	72.8	73.3	73.8	74.3	74.3	74.3
97.5°	112.6	114.9	117.2	119.4	121.1	122.0	123.0	124.0	125.0	125.0	125.0
100°	149.6	151.7	153.7	155.8	157.2	158.0	158.7	159.5	160.3	160.3	160.3
102.5°	188.2	189.9	191.5	193.2	194.5	195.5	196.4	197.4	198.4	198.6	198.8
105°	250.5	251.3	252.1	252.8	253.5	254.0	254.5	255.0	255.5	256.1	256.6
107.5°	314.5	315.7	316.8	317.9	318.5	318.5	318.5	318.5	318.5	318.7	318.9
110°	355.8	357.4	358.9	360.5	361.3	361.3	361.3	361.3	361.3	361.3	361.3





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	400.4	402.0	403.5	405.1	405.8	405.5	405.3	405.1	404.9	404.3	403.7
115°	466.2	467.7	469.3	470.8	471.3	470.8	470.3	469.8	469.3	469.0	468.8
117.5°	532.2	534.3	536.3	538.4	538.7	537.3	535.8	534.4	532.9	532.3	531.7
120°	575.9	578.0	580.0	582.1	582.1	580.0	578.0	575.9	573.8	573.8	573.8
122.5°	616.3	618.7	621.2	623.7	624.2	622.8	621.3	619.9	618.4	617.8	617.2
125°	678.4	680.7	683.0	685.3	686.1	685.3	684.6	683.8	683.0	682.2	681.5
127.5°	739.6	742.6	745.5	748.4	749.5	748.5	747.6	746.7	745.7	744.8	743.9
130°	778.1	781.5	784.8	788.2	789.6	789.1	788.6	788.1	787.6	787.0	786.5
132.5°	820.3	823.0	825.7	828.5	829.9	830.0	830.1	830.2	830.3	829.2	828.0
135°	877.5	880.4	883.2	886.0	887.7	888.2	888.7	889.3	889.8	889.5	889.3
137.5°	937.2	939.5	941.8	944.1	945.6	946.3	947.0	947.6	948.3	948.1	947.9
140°	973.4	975.7	978.1	980.4	982.2	983.5	984.8	986.1	987.3	987.3	987.3
142.5°	1010.6	1012.9	1015.2	1017.5	1019.1	1020.0	1020.9	1021.8	1022.7	1022.9	1023.1
145°	1063.5	1065.3	1067.1	1068.9	1070.6	1072.1	1073.7	1075.2	1076.8	1077.0	1077.3
147.5°	1111.5	1113.6	1115.8	1118.0	1119.6	1120.6	1121.7	1122.7	1123.7	1124.3	1124.9
150°	1143.4	1144.9	1146.5	1148.0	1149.3	1150.4	1151.4	1152.4	1153.5	1154.2	1155.0
152.5°	1172.2	1173.7	1175.3	1176.8	1178.2	1179.5	1180.7	1182.0	1183.2	1184.2	1185.2
155°	1214.6	1215.4	1216.2	1217.0	1217.7	1218.5	1219.3	1220.1	1220.8	1222.1	1223.4
157.5°	1251.3	1251.8	1252.3	1252.9	1253.3	1253.8	1254.3	1254.7	1255.2	1257.0	1258.7
160°	1273.6	1274.1	1274.6	1275.2	1275.5	1275.8	1276.1	1276.3	1276.6	1278.1	1279.7
162.5°	1293.6	1293.7	1293.8	1294.0	1294.1	1294.4	1294.6	1294.9	1295.2	1296.9	1298.7
165°	1320.5	1320.2	1319.9	1319.7	1319.6	1319.6	1319.6	1319.6	1319.6	1321.4	1323.2
167.5°	1342.7	1341.9	1341.2	1340.4	1340.0	1339.9	1339.9	1339.8	1339.8	1341.6	1343.4
170°	1354.8	1354.0	1353.2	1352.5	1352.0	1351.7	1351.4	1351.2	1350.9	1352.7	1354.5
172.5°	1363.2	1362.4	1361.6	1360.8	1360.3	1360.1	1359.8	1359.5	1359.3	1361.1	1362.9
175°	1373.4	1372.6	1371.8	1371.1	1370.4	1369.9	1369.4	1368.9	1368.3	1370.2	1372.0
177.5°	1377.7	1377.1	1376.5	1375.9	1375.3	1374.9	1374.5	1374.1	1373.7	1374.9	1376.2
180°	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	1007.9	1012.1	1012.1	1012.7	1017.4	1016.9	1016.6
5°	1072.6	1078.9	1079.7	1086.4	1090.9	1089.4	1085.3
7.5°	1133.6	1145.4	1154.4	1159.4	1165.3	1168.9	1167.3
10°	1182.0	1199.2	1209.6	1216.7	1225.3	1231.7	1229.4
12.5°	1225.9	1246.4	1260.7	1272.9	1274.0	1282.2	1276.6
15°	1294.4	1316.1	1318.3	1327.3	1334.4	1333.6	1334.0
17.5°	1317.0	1324.0	1325.4	1325.6	1325.7	1323.1	1317.4
20°	1309.0	1306.4	1300.0	1295.2	1286.6	1285.4	1278.0
22.5°	1270.7	1262.4	1246.5	1236.0	1222.6	1219.1	1217.0
25°	1195.4	1177.1	1151.7	1127.5	1120.7	1107.7	1111.4
27.5°	1092.1	1063.6	1036.1	1016.4	998.6	979.0	984.6
30°	1019.5	987.4	948.6	918.7	899.7	881.0	877.6
32.5°	932.9	885.8	842.5	816.2	787.0	775.2	762.3
35°	783.5	737.6	694.6	657.7	636.4	619.9	605.0
37.5°	649.1	596.3	561.6	531.7	516.3	506.9	509.2
40°	565.8	519.5	494.1	471.3	457.1	450.4	451.9
42.5°	498.3	463.6	442.7	427.1	417.1	413.3	412.4
45°	421.6	402.2	385.0	376.1	371.2	367.1	364.5
47.5°	369.4	353.5	343.8	338.5	334.2	330.1	330.0
50°	338.0	327.5	320.8	315.2	311.8	308.8	311.5
52.5°	314.1	304.5	297.8	292.8	291.5	288.8	288.8
55°	278.6	271.1	266.3	261.8	259.6	258.1	256.2
57.5°	246.3	239.2	234.8	231.9	227.7	226.2	225.6
60°	223.3	217.7	213.2	209.5	207.6	204.7	204.7
62.5°	202.1	196.5	192.3	189.5	186.4	185.2	185.5
65°	171.4	166.9	162.8	159.8	159.1	156.9	157.6
67.5°	143.2	140.2	135.9	134.2	132.8	131.6	130.7
70°	124.4	121.4	119.1	116.9	115.8	115.8	115.8
72.5°	108.5	104.9	103.6	100.8	101.4	100.2	99.0
75°	84.0	81.8	80.7	79.5	77.7	77.7	77.7
77.5°	61.8	61.2	59.8	58.6	58.2	57.8	58.0
80°	47.8	47.4	46.7	46.7	45.9	45.6	44.8
82.5°	36.7	35.8	35.3	35.0	34.9	34.8	34.7
85°	20.9	20.2	20.2	20.5	19.8	19.8	20.2
87.5°	15.9	15.8	15.5	15.5	15.9	15.6	15.7
90°	39.1	38.6	38.5	38.7	39.0	39.2	39.5
92.5°	37.2	37.4	37.4	37.5	37.5	37.6	37.6
95°	74.3	74.3	74.1	73.6	73.1	72.5	72.0
97.5°	125.0	125.0	125.0	124.9	124.9	124.8	124.8
100°	160.3	160.3	160.2	159.9	159.7	159.4	159.1
102.5°	199.0	199.2	199.2	198.9	198.7	198.4	198.2
105°	257.1	257.6	257.9	257.9	257.9	257.9	257.9
107.5°	319.1	319.3	318.8	317.7	316.5	315.3	314.1
110°	361.3	361.3	360.9	360.1	359.3	358.5	357.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	403.1	402.5	401.9	401.3	400.7	400.2	399.6
115°	468.5	468.2	467.7	467.0	466.2	465.4	464.6
117.5°	531.1	530.5	529.8	529.0	528.2	527.4	526.7
120°	573.8	573.8	573.4	572.7	571.9	571.1	570.3
122.5°	616.6	615.9	615.4	614.8	614.2	613.7	613.1
125°	680.7	679.9	679.4	679.1	678.9	678.6	678.4
127.5°	742.9	742.0	741.1	740.3	739.5	738.7	737.8
130°	786.0	785.5	784.7	783.7	782.6	781.6	780.6
132.5°	826.9	825.8	824.8	824.0	823.1	822.3	821.5
135°	889.0	888.7	888.2	887.4	886.7	885.9	885.1
137.5°	947.7	947.5	946.9	945.8	944.8	943.8	942.7
140°	987.3	987.3	986.8	985.8	984.8	983.7	982.7
142.5°	1023.3	1023.5	1023.1	1022.0	1021.0	1020.0	1018.9
145°	1077.6	1077.8	1077.4	1076.4	1075.4	1074.3	1073.3
147.5°	1125.4	1126.0	1125.8	1124.8	1123.8	1122.8	1121.9
150°	1155.8	1156.6	1156.6	1155.8	1155.0	1154.2	1153.5
152.5°	1186.1	1187.1	1187.1	1186.1	1185.2	1184.2	1183.2
155°	1224.7	1226.0	1226.2	1225.5	1224.7	1223.9	1223.1
157.5°	1260.5	1262.2	1262.5	1261.2	1260.0	1258.8	1257.5
160°	1281.2	1282.8	1283.0	1282.0	1281.0	1279.9	1278.9
162.5°	1300.4	1302.2	1302.4	1301.2	1300.0	1298.7	1297.5
165°	1325.0	1326.8	1327.0	1325.8	1324.5	1323.2	1321.9
167.5°	1345.2	1347.0	1347.2	1345.9	1344.5	1343.2	1341.9
170°	1356.3	1358.1	1358.3	1356.7	1355.2	1353.6	1352.1
172.5°	1364.7	1366.5	1366.6	1365.1	1363.5	1362.0	1360.4
175°	1373.8	1375.6	1375.7	1374.2	1372.6	1371.1	1369.5
177.5°	1377.4	1378.6	1378.6	1377.4	1376.2	1374.9	1373.7
180°	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5

(END OF REPORT)