

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: P332132-840

Luminaire Tested: **S123DIW-S560D1030U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332132-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIW-S560D1030U840-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1030 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6576.7 lumens  
Efficiency: N/A  
Efficacy: 145.5 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Indirect

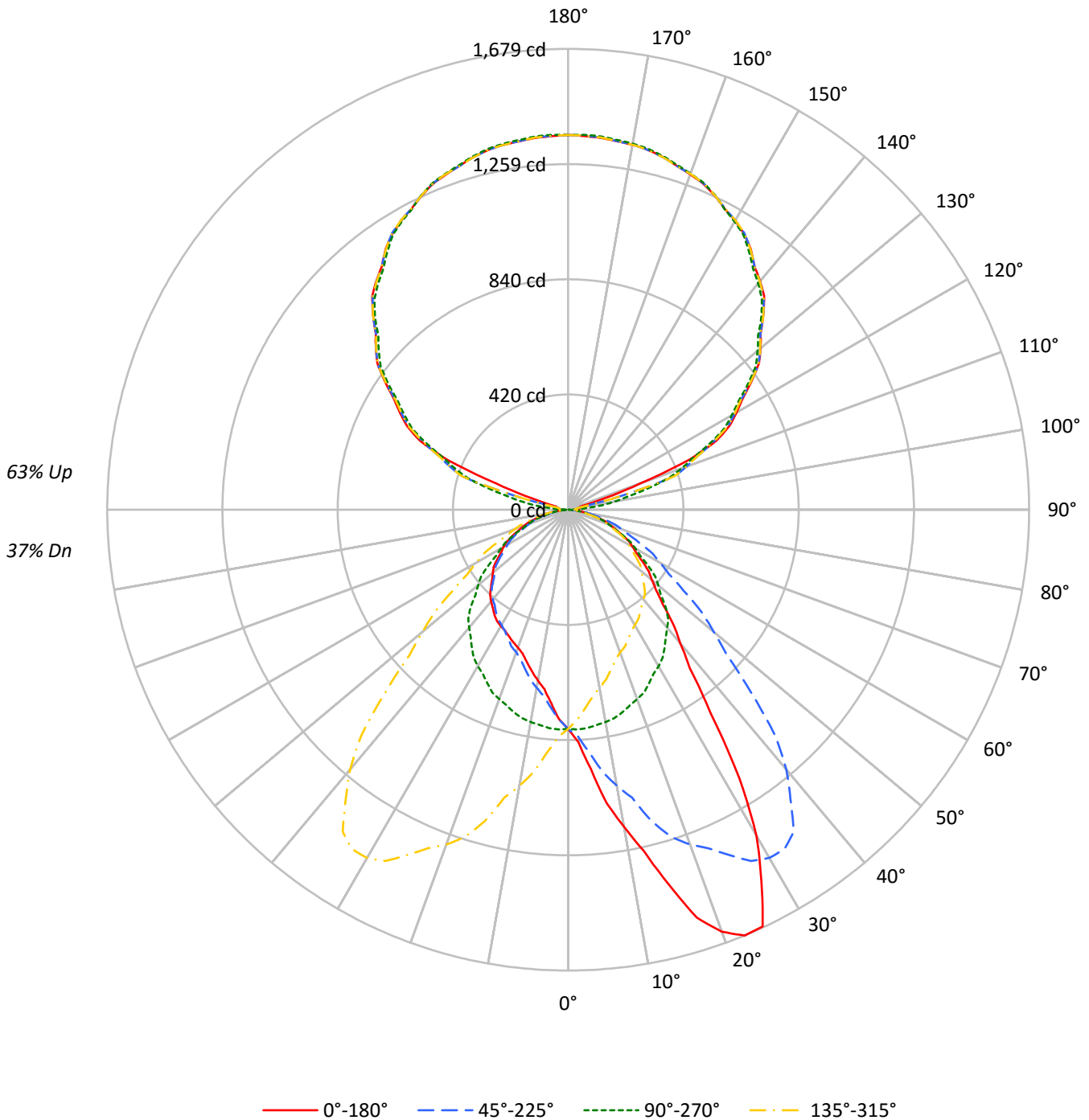
Input Watts (W): 45.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	84	86	82	79	76	67	65	63	52	51	50	39	38	37	31
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	63	57	71	64	58	53	52	48	44	41	38	35	31	29	27	23
4	72	62	54	49	65	56	50	45	46	41	38	37	33	30	28	25	24	20
5	66	55	47	42	60	50	44	38	41	36	32	33	29	26	25	23	21	17
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	45	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	13
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	16	14	12
9	49	37	29	25	44	34	27	23	28	23	20	23	19	16	17	15	13	11
10	45	34	27	22	41	31	25	20	26	21	18	21	17	15	16	14	12	10

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

	0°	90°	180°	270°
0°	8593	8593	8593	8593
5°	10247	8630	7648	8630
10°	12826	8587	6908	8587
15°	15731	8517	6430	8517
20°	18741	8409	6123	8409
25°	19899	8278	6055	8278
30°	17056	8182	6087	8182
35°	11862	8046	6150	8046
40°	8934	7886	6131	7886
45°	7419	7648	6052	7648
50°	6646	7164	5998	7164
55°	6212	6641	5923	6641
60°	5828	6097	5862	6097
65°	5476	5555	5675	5555
70°	5136	4941	5404	4941
75°	4600	4325	4957	4325
80°	4023	3552	4271	3552
85°	3149	2581	2865	2581



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.6	1.2
10°-20°	252.2	3.8
20°-30°	423.2	6.4
30°-40°	479.2	7.3
40°-50°	429.7	6.5
50°-60°	346.8	5.3
60°-70°	241.7	3.7
70°-80°	127.0	1.9
80°-90°	34.9	0.5
90°-100°	49.6	0.8
100°-110°	236.6	3.6
110°-120°	568.2	8.6
120°-130°	723.6	11.0
130°-140°	773.1	11.8
140°-150°	723.0	11.0
150°-160°	583.2	8.9
160°-170°	376.4	5.7
170°-180°	129.7	2.0
0°-30°	754.0	11.5
0°-40°	1233.2	18.8
0°-60°	2009.7	30.6
0°-90°	2413.3	36.7
90°-120°	854.5	13.0
90°-150°	3074.2	46.7
90°-180°	4163.0	63.3
0°-180°	6576.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	798	798	798	798	798	
5°	948	799	708	799	948	98
15°	1412	764	577	764	1412	408
25°	1676	697	510	697	1676	735
35°	903	612	468	612	903	586
45°	487	502	398	502	487	386
55°	331	354	316	354	331	297
65°	215	218	223	218	215	214
75°	111	104	119	104	111	118
85°	26	21	23	21	26	31
90°	30	1	30	1	30	15
95°	39	62	39	62	39	32
105°	45	302	45	302	45	102
115°	596	567	596	567	596	551
125°	816	799	816	799	816	728
135°	1005	995	1005	995	1005	775
145°	1159	1148	1159	1148	1159	724
155°	1263	1265	1263	1265	1263	582
165°	1331	1334	1331	1334	1331	376
175°	1360	1365	1360	1365	1360	129
180°	1365	1365	1365	1365	1365	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	847.2	846.6	845.1	846.3	843.7	840.4	840.1	837.0	828.0	827.4	825.0
5°	948.4	945.2	944.9	944.5	939.1	931.7	917.8	916.7	898.1	888.8	877.6
7.5°	1079.4	1081.1	1075.4	1070.5	1053.9	1043.0	1028.0	1009.0	986.1	963.0	947.6
10°	1173.5	1186.2	1170.3	1159.5	1149.5	1130.5	1108.5	1081.1	1053.6	1021.5	997.1
12.5°	1274.3	1280.6	1277.5	1267.2	1251.6	1222.7	1183.7	1153.5	1128.1	1074.7	1053.1
15°	1411.7	1435.3	1420.3	1385.4	1386.2	1358.8	1307.7	1251.6	1221.8	1175.0	1111.2
17.5°	1558.1	1561.0	1554.6	1525.6	1506.2	1468.5	1421.4	1367.7	1307.3	1250.7	1183.0
20°	1636.1	1633.8	1620.2	1605.1	1571.9	1542.5	1491.0	1431.1	1353.7	1298.0	1224.2
22.5°	1679.4	1675.5	1669.1	1656.5	1628.8	1597.2	1551.1	1485.5	1411.9	1335.1	1249.8
25°	1675.5	1680.5	1681.3	1677.8	1668.2	1649.2	1612.9	1560.6	1487.1	1388.6	1299.6
27.5°	1523.9	1531.0	1551.7	1570.0	1590.5	1611.3	1608.6	1582.7	1528.3	1443.1	1334.3
30°	1372.3	1356.8	1395.1	1443.4	1476.3	1534.3	1566.8	1568.7	1538.2	1465.1	1359.1
32.5°	1161.8	1178.9	1195.8	1255.3	1327.2	1392.3	1456.9	1509.0	1515.0	1466.3	1373.6
35°	902.7	924.0	954.9	985.9	1063.3	1129.7	1243.4	1342.5	1421.4	1431.8	1374.9
37.5°	727.4	738.0	757.5	788.5	839.1	918.1	1006.0	1131.1	1245.5	1330.5	1334.2
40°	635.8	638.9	661.0	684.6	725.6	790.5	869.9	980.5	1117.4	1236.2	1285.7
42.5°	567.1	574.0	583.3	606.0	638.6	687.5	761.2	852.7	978.2	1114.8	1211.6
45°	487.4	495.0	500.9	515.9	539.2	572.0	623.5	707.0	802.5	943.7	1074.1
47.5°	434.5	435.2	439.5	450.9	466.7	491.4	527.8	581.4	669.1	783.6	917.5
50°	396.9	403.0	404.6	413.4	425.9	444.0	474.2	519.8	591.8	692.4	815.4
52.5°	370.2	372.0	376.4	382.8	393.6	407.8	433.9	469.7	526.1	611.9	725.0
55°	331.0	331.0	335.4	340.3	346.6	359.3	376.7	403.0	446.0	512.5	606.1
57.5°	294.9	296.8	299.8	301.3	306.6	315.1	329.6	349.6	381.6	432.8	507.3
60°	270.7	274.2	273.9	276.9	281.6	288.1	300.5	316.8	345.4	386.4	449.1
62.5°	249.7	249.4	249.4	253.1	257.7	264.0	272.1	286.1	310.4	346.8	400.1
65°	215.0	214.3	217.0	219.3	220.9	225.5	231.7	244.1	260.3	287.4	328.7
67.5°	184.3	182.0	183.5	184.3	186.9	190.6	196.3	204.0	216.9	238.6	269.8
70°	163.2	161.3	160.9	161.7	164.0	166.7	171.0	178.3	190.3	207.7	230.6
72.5°	141.6	140.3	140.2	141.9	143.0	144.7	147.7	154.5	164.0	177.0	198.3
75°	110.6	110.6	110.6	111.0	112.2	113.7	116.0	119.5	126.8	136.1	150.5
77.5°	82.9	82.8	82.4	82.3	84.0	84.7	85.2	88.5	92.6	98.9	109.3
80°	64.9	63.0	63.8	64.9	65.7	66.1	67.3	68.1	71.6	75.0	82.4
82.5°	48.3	46.7	46.8	48.6	48.8	49.1	50.3	51.4	52.7	55.8	59.8
85°	25.5	25.5	26.0	26.0	26.3	26.0	27.1	27.5	27.5	29.4	31.7
87.5°	15.3	14.6	14.8	15.1	14.7	14.8	15.0	15.1	15.2	15.3	15.1
90°	30.4	30.0	29.5	29.1	28.6	28.0	27.1	26.2	25.2	24.3	21.4
92.5°	33.6	33.4	33.1	32.8	32.6	31.7	30.3	28.9	27.4	26.0	23.7
95°	38.6	38.6	38.6	38.6	38.6	37.8	36.2	34.6	33.0	31.4	29.0
97.5°	41.8	41.6	41.3	41.1	40.9	39.9	38.1	36.3	34.4	32.6	48.9
100°	42.6	42.4	42.1	41.9	41.7	40.7	38.9	37.1	35.2	33.4	68.7
102.5°	43.4	43.0	42.6	42.2	41.8	44.3	50.0	55.5	61.2	66.8	105.1
105°	44.6	44.1	43.7	43.3	42.8	62.5	102.4	142.4	182.3	222.2	242.5
107.5°	140.2	170.3	200.4	230.4	260.4	290.1	319.4	348.6	377.9	407.2	403.9
110°	278.9	311.1	343.4	375.7	407.9	427.7	435.2	442.6	450.0	457.5	454.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	478.6	485.3	492.2	499.0	505.7	509.1	509.0	508.9	508.7	508.6	506.1
115°	596.4	595.5	594.6	593.7	592.8	591.3	589.0	586.7	584.5	582.2	580.2
117.5°	662.6	662.4	662.2	662.0	661.9	660.9	659.0	657.2	655.4	653.6	652.6
120°	708.0	708.0	708.0	708.0	708.0	707.1	705.3	703.5	701.7	699.8	699.2
122.5°	752.7	752.5	752.2	752.0	751.9	751.1	749.9	748.6	747.4	746.1	745.3
125°	815.5	815.1	814.6	814.2	813.7	813.2	812.8	812.3	811.9	811.4	810.5
127.5°	876.0	876.5	876.9	877.3	877.8	877.7	876.9	876.2	875.5	874.7	873.6
130°	914.9	915.3	915.8	916.3	916.8	916.5	915.5	914.7	913.8	912.9	912.0
132.5°	950.6	951.3	951.9	952.5	953.1	953.0	952.1	951.2	950.3	949.4	948.7
135°	1005.2	1005.8	1006.5	1007.2	1007.8	1007.8	1007.2	1006.5	1005.8	1005.2	1004.3
137.5°	1056.5	1056.9	1057.4	1057.8	1058.3	1058.0	1056.9	1055.8	1054.7	1053.7	1053.2
140°	1087.3	1087.8	1088.2	1088.7	1089.1	1088.9	1088.0	1087.1	1086.2	1085.3	1084.6
142.5°	1115.7	1116.4	1117.0	1117.6	1118.2	1118.2	1117.5	1116.8	1116.1	1115.3	1114.7
145°	1159.3	1159.3	1159.3	1159.3	1159.3	1159.1	1158.7	1158.2	1157.8	1157.3	1156.9
147.5°	1191.8	1192.9	1193.9	1195.0	1196.0	1196.3	1195.8	1195.4	1194.9	1194.5	1194.0
150°	1216.2	1216.9	1217.5	1218.2	1218.9	1219.0	1218.5	1218.1	1217.6	1217.2	1216.7
152.5°	1235.7	1236.7	1237.7	1238.7	1239.8	1239.9	1239.1	1238.3	1237.5	1236.7	1236.4
155°	1262.8	1264.1	1265.6	1266.9	1268.2	1268.4	1267.2	1266.1	1265.0	1263.8	1263.6
157.5°	1285.8	1287.5	1289.3	1291.0	1292.7	1292.9	1291.6	1290.3	1288.9	1287.6	1287.8
160°	1300.3	1301.9	1303.5	1305.0	1306.7	1306.8	1305.5	1304.0	1302.7	1301.4	1301.6
162.5°	1314.1	1315.6	1317.0	1318.4	1319.7	1319.7	1318.2	1316.6	1315.0	1313.5	1313.7
165°	1330.8	1332.3	1333.9	1335.5	1337.1	1337.0	1335.1	1333.3	1331.6	1329.8	1330.0
167.5°	1342.7	1344.5	1346.4	1348.2	1350.0	1350.0	1348.2	1346.4	1344.5	1342.7	1342.7
170°	1350.1	1351.8	1353.6	1355.4	1357.3	1357.3	1355.4	1353.6	1351.8	1350.1	1350.1
172.5°	1354.1	1356.0	1358.1	1360.1	1362.0	1362.1	1360.3	1358.6	1356.8	1354.9	1354.7
175°	1360.2	1362.0	1363.8	1365.6	1367.5	1367.6	1365.9	1364.3	1362.8	1361.2	1361.0
177.5°	1362.0	1363.8	1365.6	1367.5	1369.3	1369.4	1368.0	1366.5	1365.1	1363.6	1363.4
180°	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	823.0	820.6	818.1	813.7	810.0	804.8	803.2	801.4	795.9	790.8	787.2
5°	873.3	864.0	850.5	838.1	828.1	814.6	806.8	798.7	787.1	776.7	768.1
7.5°	925.9	907.7	886.7	863.9	842.7	822.2	805.8	791.1	774.9	759.4	747.5
10°	967.8	941.4	912.0	880.3	853.2	826.9	804.9	785.6	764.7	746.5	731.3
12.5°	1015.3	976.3	935.8	897.3	865.3	828.8	802.1	777.5	753.9	732.0	715.0
15°	1071.8	1022.3	974.3	921.3	872.5	826.9	795.2	764.3	736.8	714.4	692.7
17.5°	1123.1	1067.0	1003.8	939.4	880.6	826.5	782.0	747.1	712.8	685.3	663.7
20°	1152.2	1088.3	1016.8	949.9	884.9	824.6	775.9	734.1	697.0	667.9	643.6
22.5°	1177.3	1102.6	1028.5	957.0	884.6	819.6	764.5	721.4	681.2	652.8	626.9
25°	1203.3	1113.9	1039.7	955.7	874.8	807.6	745.7	697.0	656.7	623.5	596.8
27.5°	1225.6	1113.2	1025.0	934.7	859.6	792.1	726.1	673.8	631.1	594.9	567.8
30°	1240.4	1114.7	1009.9	920.5	844.8	775.1	710.8	658.3	613.4	576.6	551.2
32.5°	1249.7	1113.8	995.9	900.7	821.2	759.6	694.5	640.1	593.9	557.8	533.2
35°	1255.1	1106.9	972.0	859.8	783.3	723.3	668.7	612.3	563.9	530.3	502.4
37.5°	1244.3	1092.7	944.1	820.3	736.5	677.5	631.6	583.5	537.2	500.2	476.2
40°	1227.2	1083.4	922.4	792.5	704.3	647.4	608.4	561.2	515.5	480.4	458.0
42.5°	1194.8	1064.5	898.7	761.5	670.9	614.0	578.0	538.7	495.4	462.4	440.0
45°	1115.5	1023.4	862.9	715.2	621.6	562.8	531.1	502.4	463.3	431.2	411.9
47.5°	1005.4	961.6	811.2	666.2	570.1	513.5	480.5	457.5	428.9	403.0	384.5
50°	929.1	910.9	776.3	632.8	535.6	480.4	448.7	427.8	407.3	381.3	364.4
52.5°	840.8	852.0	735.4	598.1	500.7	446.4	416.5	399.9	381.3	360.0	345.2
55°	716.7	757.3	664.9	540.0	448.7	396.9	368.6	353.9	343.1	327.2	314.5
57.5°	600.5	652.1	588.5	480.0	397.5	352.8	325.8	309.7	302.8	294.5	284.5
60°	531.4	582.5	534.1	439.8	363.1	320.6	296.7	283.2	276.2	270.3	261.9
62.5°	469.9	521.5	480.9	398.9	329.4	290.0	269.1	255.9	250.4	247.4	240.1
65°	385.3	429.7	402.6	335.4	281.1	246.4	227.4	218.1	213.1	212.0	207.3
67.5°	313.6	347.4	327.7	278.1	235.5	205.4	189.3	181.5	177.6	177.2	173.7
70°	266.5	298.2	283.2	238.2	201.5	177.9	164.0	157.0	154.7	154.3	152.4
72.5°	229.9	252.1	240.1	202.7	174.3	152.9	142.6	135.3	132.7	133.3	132.0
75°	170.2	186.8	179.9	153.9	131.1	117.1	108.7	104.0	101.7	102.9	101.3
77.5°	122.5	133.0	126.7	108.8	94.7	84.6	78.4	75.5	73.4	73.3	72.6
80°	92.4	98.7	95.1	84.3	72.7	64.2	59.2	57.3	56.0	55.7	55.3
82.5°	65.8	71.1	67.0	59.6	51.7	46.6	43.7	41.2	40.3	40.5	40.2
85°	33.2	35.2	33.6	29.0	26.0	23.6	22.0	20.9	20.1	20.5	19.7
87.5°	15.1	14.8	13.3	11.6	10.5	9.2	8.7	7.7	7.5	7.9	8.1
90°	18.5	15.6	12.6	10.0	7.8	5.6	3.2	1.0	3.2	5.6	7.8
92.5°	21.5	19.4	17.2	16.4	17.0	17.6	18.3	18.9	18.3	17.6	17.0
95°	26.5	24.0	21.5	24.9	34.1	43.4	52.6	61.9	52.6	43.4	34.1
97.5°	65.1	81.4	97.6	107.8	111.9	116.0	120.2	124.3	120.2	116.0	111.9
100°	103.8	139.0	174.1	189.5	184.9	180.5	175.9	171.4	175.9	180.5	184.9
102.5°	143.6	182.0	220.4	237.9	234.7	231.5	228.2	225.0	228.2	231.5	234.7
105°	262.7	283.0	303.3	312.1	309.7	307.2	304.8	302.3	304.8	307.2	309.7
107.5°	400.7	397.6	394.4	391.7	389.8	387.8	385.8	383.8	385.8	387.8	389.8
110°	452.5	450.0	447.6	445.4	443.6	441.8	440.0	438.2	440.0	441.8	443.6





TEST NUMBER: P332132-840

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	503.6	501.1	498.7	496.7	495.0	493.3	491.7	490.1	491.7	493.3	495.0
115°	578.1	576.1	574.1	572.4	571.1	569.7	568.4	567.0	568.4	569.7	571.1
117.5°	651.6	650.6	649.4	648.1	646.4	644.8	643.1	641.5	643.1	644.8	646.4
120°	698.5	697.8	697.2	695.8	693.8	691.8	689.7	687.7	689.7	691.8	693.8
122.5°	744.4	743.6	742.7	741.4	739.7	738.1	736.4	734.8	736.4	738.1	739.7
125°	809.6	808.7	807.9	806.5	804.7	802.8	801.1	799.3	801.1	802.8	804.7
127.5°	872.6	871.5	870.4	869.0	867.2	865.4	863.5	861.7	863.5	865.4	867.2
130°	911.1	910.2	909.3	908.0	906.2	904.3	902.5	900.7	902.5	904.3	906.2
132.5°	948.0	947.3	946.5	945.2	943.4	941.6	939.9	938.1	939.9	941.6	943.4
135°	1003.4	1002.5	1001.6	1000.5	999.1	997.7	996.4	995.0	996.4	997.7	999.1
137.5°	1052.7	1052.2	1051.7	1050.6	1048.8	1047.1	1045.4	1043.7	1045.4	1047.1	1048.8
140°	1084.0	1083.3	1082.6	1081.6	1080.3	1078.9	1077.5	1076.2	1077.5	1078.9	1080.3
142.5°	1114.0	1113.3	1112.7	1111.7	1110.2	1108.9	1107.5	1106.2	1107.5	1108.9	1110.2
145°	1156.4	1156.0	1155.5	1154.5	1153.0	1151.3	1149.7	1148.2	1149.7	1151.3	1153.0
147.5°	1193.6	1193.1	1192.7	1191.9	1190.8	1189.8	1188.8	1187.8	1188.8	1189.8	1190.8
150°	1216.3	1215.8	1215.4	1214.8	1214.2	1213.5	1212.7	1212.1	1212.7	1213.5	1214.2
152.5°	1236.1	1235.9	1235.6	1235.3	1235.0	1234.7	1234.4	1234.1	1234.4	1234.7	1235.0
155°	1263.3	1263.1	1262.9	1263.0	1263.5	1263.9	1264.4	1264.9	1264.4	1263.9	1263.5
157.5°	1288.0	1288.3	1288.5	1288.6	1288.7	1288.7	1288.8	1288.8	1288.8	1288.7	1288.7
160°	1301.8	1302.0	1302.2	1302.5	1302.7	1302.9	1303.1	1303.4	1303.1	1302.9	1302.7
162.5°	1314.0	1314.2	1314.4	1314.8	1315.5	1316.1	1316.6	1317.2	1316.6	1316.1	1315.5
165°	1330.2	1330.4	1330.7	1331.1	1331.8	1332.5	1333.1	1333.8	1333.1	1332.5	1331.8
167.5°	1342.7	1342.7	1342.7	1343.2	1344.1	1345.0	1345.9	1346.8	1345.9	1345.0	1344.1
170°	1350.1	1350.1	1350.1	1350.5	1351.4	1352.3	1353.2	1354.1	1353.2	1352.3	1351.4
172.5°	1354.5	1354.3	1354.2	1354.6	1355.7	1356.9	1357.9	1359.0	1357.9	1356.9	1355.7
175°	1360.8	1360.5	1360.3	1360.8	1361.9	1363.0	1364.1	1365.2	1364.1	1363.0	1361.9
177.5°	1363.3	1363.1	1362.9	1363.3	1364.2	1365.1	1365.9	1366.9	1365.9	1365.1	1364.2
180°	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	785.0	782.8	779.7	775.1	771.3	765.5	765.5	766.4	766.4	766.1	765.5
5°	761.1	755.4	748.4	740.3	731.7	723.3	721.8	718.6	716.3	714.8	712.9
7.5°	736.0	725.8	715.6	704.3	693.9	685.3	679.3	674.4	671.2	667.8	665.3
10°	719.0	706.2	694.3	682.3	669.1	658.6	652.1	647.4	644.0	640.9	639.3
12.5°	698.9	684.3	671.1	659.6	645.3	634.5	628.2	626.1	622.0	615.5	612.1
15°	669.5	656.0	640.2	622.7	615.7	602.6	595.2	591.8	589.5	584.4	582.9
17.5°	644.4	626.6	608.8	595.8	582.9	572.3	568.2	563.8	560.8	556.6	555.4
20°	624.3	608.4	592.2	578.2	564.7	553.1	549.6	546.5	543.4	541.5	540.0
22.5°	603.8	587.9	574.5	561.5	547.0	539.5	535.6	532.3	530.1	528.8	527.3
25°	575.1	561.2	546.1	534.5	522.9	517.9	515.5	513.6	512.1	510.2	509.8
27.5°	549.5	534.3	522.1	511.2	502.9	498.7	496.4	495.5	495.8	496.6	497.0
30°	530.3	516.3	506.2	497.0	489.3	485.4	485.0	485.0	486.6	487.0	487.8
32.5°	512.6	501.2	491.1	482.1	476.3	473.6	475.1	475.1	476.4	477.4	478.8
35°	487.0	476.9	469.2	461.4	456.4	457.6	458.3	459.1	461.0	463.3	464.9
37.5°	462.4	453.7	445.7	439.6	437.3	439.4	441.2	442.8	445.1	446.9	448.4
40°	444.7	438.2	430.5	425.1	425.9	427.0	428.6	430.5	432.4	433.5	435.2
42.5°	428.4	421.5	415.7	411.1	412.2	413.7	414.7	415.7	417.9	420.0	420.9
45°	403.4	398.0	392.5	389.9	390.6	391.4	392.2	393.3	395.3	396.9	397.2
47.5°	375.4	371.5	367.9	365.3	366.5	366.2	367.2	369.7	370.3	371.2	373.3
50°	357.4	353.9	349.6	348.9	348.9	348.9	349.2	352.3	352.3	353.9	355.5
52.5°	337.6	335.4	332.6	331.2	330.6	330.6	332.2	333.8	334.4	336.6	338.1
55°	308.2	305.9	303.7	302.5	301.6	302.5	305.6	306.3	308.2	309.4	310.5
57.5°	277.7	275.9	274.1	273.5	273.3	274.3	276.0	278.3	278.8	282.4	284.1
60°	257.6	254.9	253.4	253.4	252.6	256.0	255.3	259.1	259.9	262.3	265.0
62.5°	236.8	233.2	232.6	232.6	233.7	234.7	235.8	237.5	239.5	242.5	244.5
65°	203.5	201.5	204.2	203.8	203.1	205.4	205.4	207.3	209.6	212.4	216.6
67.5°	171.8	170.8	171.1	171.1	172.2	173.5	174.6	176.3	179.0	182.0	184.7
70°	150.5	151.6	149.7	151.3	152.4	152.8	153.5	155.8	159.0	160.9	164.0
72.5°	129.8	129.7	129.9	130.5	131.7	132.4	133.1	135.7	139.2	140.8	143.3
75°	99.8	99.4	100.6	100.6	102.5	103.3	104.0	105.2	108.3	110.6	112.6
77.5°	72.9	73.3	73.1	74.4	73.9	74.0	76.4	77.6	77.9	82.5	83.5
80°	54.9	55.7	56.0	56.5	56.9	56.0	58.8	60.0	60.0	62.6	64.6
82.5°	39.5	39.9	40.9	41.3	41.4	42.1	42.4	43.2	44.1	45.3	47.9
85°	19.7	20.9	21.3	20.9	21.3	20.5	21.6	22.0	22.4	22.4	22.4
87.5°	8.2	9.0	9.3	10.2	10.5	11.4	11.5	11.1	11.3	12.4	11.3
90°	10.0	12.6	15.6	18.5	21.4	24.3	25.2	26.2	27.1	28.0	28.6
92.5°	16.4	17.2	19.4	21.5	23.7	26.0	27.4	28.9	30.3	31.7	32.6
95°	24.9	21.5	24.0	26.5	29.0	31.4	33.0	34.6	36.2	37.8	38.6
97.5°	107.8	97.6	81.4	65.1	48.9	32.6	34.4	36.3	38.1	39.9	40.9
100°	189.5	174.1	139.0	103.8	68.7	33.4	35.2	37.1	38.9	40.7	41.7
102.5°	237.9	220.4	182.0	143.6	105.1	66.8	61.2	55.5	50.0	44.3	41.8
105°	312.1	303.3	283.0	262.7	242.5	222.2	182.3	142.4	102.4	62.5	42.8
107.5°	391.7	394.4	397.6	400.7	403.9	407.2	377.9	348.6	319.4	290.1	260.4
110°	445.4	447.6	450.0	452.5	454.9	457.5	450.0	442.6	435.2	427.7	407.9



TEST NUMBER: P332132-840

CATALOG NUMBER: S123DIW-S560D1030U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	496.7	498.7	501.1	503.6	506.1	508.6	508.7	508.9	509.0	509.1	505.7
115°	572.4	574.1	576.1	578.1	580.2	582.2	584.5	586.7	589.0	591.3	592.8
117.5°	648.1	649.4	650.6	651.6	652.6	653.6	655.4	657.2	659.0	660.9	661.9
120°	695.8	697.2	697.8	698.5	699.2	699.8	701.7	703.5	705.3	707.1	708.0
122.5°	741.4	742.7	743.6	744.4	745.3	746.1	747.4	748.6	749.9	751.1	751.9
125°	806.5	807.9	808.7	809.6	810.5	811.4	811.9	812.3	812.8	813.2	813.7
127.5°	869.0	870.4	871.5	872.6	873.6	874.7	875.5	876.2	876.9	877.7	877.8
130°	908.0	909.3	910.2	911.1	912.0	912.9	913.8	914.7	915.5	916.5	916.8
132.5°	945.2	946.5	947.3	948.0	948.7	949.4	950.3	951.2	952.1	953.0	953.1
135°	1000.5	1001.6	1002.5	1003.4	1004.3	1005.2	1005.8	1006.5	1007.2	1007.8	1007.8
137.5°	1050.6	1051.7	1052.2	1052.7	1053.2	1053.7	1054.7	1055.8	1056.9	1058.0	1058.3
140°	1081.6	1082.6	1083.3	1084.0	1084.6	1085.3	1086.2	1087.1	1088.0	1088.9	1089.1
142.5°	1111.7	1112.7	1113.3	1114.0	1114.7	1115.3	1116.1	1116.8	1117.5	1118.2	1118.2
145°	1154.5	1155.5	1156.0	1156.4	1156.9	1157.3	1157.8	1158.2	1158.7	1159.1	1159.3
147.5°	1191.9	1192.7	1193.1	1193.6	1194.0	1194.5	1194.9	1195.4	1195.8	1196.3	1196.0
150°	1214.8	1215.4	1215.8	1216.3	1216.7	1217.2	1217.6	1218.1	1218.5	1219.0	1218.9
152.5°	1235.3	1235.6	1235.9	1236.1	1236.4	1236.7	1237.5	1238.3	1239.1	1239.9	1239.8
155°	1263.0	1262.9	1263.1	1263.3	1263.6	1263.8	1265.0	1266.1	1267.2	1268.4	1268.2
157.5°	1288.6	1288.5	1288.3	1288.0	1287.8	1287.6	1288.9	1290.3	1291.6	1292.9	1292.7
160°	1302.5	1302.2	1302.0	1301.8	1301.6	1301.4	1302.7	1304.0	1305.5	1306.8	1306.7
162.5°	1314.8	1314.4	1314.2	1314.0	1313.7	1313.5	1315.0	1316.6	1318.2	1319.7	1319.7
165°	1331.1	1330.7	1330.4	1330.2	1330.0	1329.8	1331.6	1333.3	1335.1	1337.0	1337.1
167.5°	1343.2	1342.7	1342.7	1342.7	1342.7	1342.7	1344.5	1346.4	1348.2	1350.0	1350.0
170°	1350.5	1350.1	1350.1	1350.1	1350.1	1350.1	1351.8	1353.6	1355.4	1357.3	1357.3
172.5°	1354.6	1354.2	1354.3	1354.5	1354.7	1354.9	1356.8	1358.6	1360.3	1362.1	1362.0
175°	1360.8	1360.3	1360.5	1360.8	1361.0	1361.2	1362.8	1364.3	1365.9	1367.6	1367.5
177.5°	1363.3	1362.9	1363.1	1363.3	1363.4	1363.6	1365.1	1366.5	1368.0	1369.4	1369.3
180°	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2



TEST NUMBER: P332132-840

CATALOG NUMBER: S123DIW-S560D1030U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	763.4	763.1	765.2	763.7	765.2	763.1	763.4	765.5	766.1	766.4	766.4
5°	710.5	711.7	707.8	707.8	707.8	711.7	710.5	712.9	714.8	716.3	718.6
7.5°	663.5	661.8	662.0	659.8	662.0	661.8	663.5	665.3	667.8	671.2	674.4
10°	634.7	632.4	631.6	632.0	631.6	632.4	634.7	639.3	640.9	644.0	647.4
12.5°	610.9	610.4	605.3	605.4	605.3	610.4	610.9	612.1	615.5	622.0	626.1
15°	582.9	575.5	574.7	577.0	574.7	575.5	582.9	582.9	584.4	589.5	591.8
17.5°	554.8	550.9	551.2	550.0	551.2	550.9	554.8	555.4	556.6	560.8	563.8
20°	540.0	537.7	537.2	534.5	537.2	537.7	540.0	540.0	541.5	543.4	546.5
22.5°	526.3	525.5	525.7	522.8	525.7	525.5	526.3	527.3	528.8	530.1	532.3
25°	509.4	511.3	509.8	509.8	509.8	511.3	509.4	509.8	510.2	512.1	513.6
27.5°	498.0	497.9	497.1	497.1	497.1	497.9	498.0	497.0	496.6	495.8	495.5
30°	489.3	488.9	489.7	489.7	489.7	488.9	489.3	487.8	487.0	486.6	485.0
32.5°	480.6	481.1	481.3	481.6	481.3	481.1	480.6	478.8	477.4	476.4	475.1
35°	467.3	467.6	468.8	468.0	468.8	467.6	467.3	464.9	463.3	461.0	459.1
37.5°	449.1	450.9	450.5	451.1	450.5	450.9	449.1	448.4	446.9	445.1	442.8
40°	435.6	436.7	436.3	436.3	436.3	436.7	435.6	435.2	433.5	432.4	430.5
42.5°	421.6	422.4	421.4	420.8	421.4	422.4	421.6	420.9	420.0	417.9	415.7
45°	398.8	398.0	399.2	397.6	399.2	398.0	398.8	397.2	396.9	395.3	393.3
47.5°	373.2	374.1	374.4	375.5	374.4	374.1	373.2	373.3	371.2	370.3	369.7
50°	356.2	358.5	358.5	358.2	358.5	358.5	356.2	355.5	353.9	352.3	352.3
52.5°	339.5	340.6	342.1	342.0	342.1	340.6	339.5	338.1	336.6	334.4	333.8
55°	313.7	314.5	315.2	315.6	315.2	314.5	313.7	310.5	309.4	308.2	306.3
57.5°	286.9	286.6	288.4	289.0	288.4	286.6	286.9	284.1	282.4	278.8	278.3
60°	268.0	268.0	271.1	272.3	271.1	268.0	268.0	265.0	262.3	259.9	259.1
62.5°	247.9	249.1	252.3	250.6	252.3	249.1	247.9	244.5	242.5	239.5	237.5
65°	218.5	221.7	221.3	222.8	221.3	221.7	218.5	216.6	212.4	209.6	207.3
67.5°	187.8	189.8	192.6	192.8	192.6	189.8	187.8	184.7	182.0	179.0	176.3
70°	167.1	169.1	170.6	171.7	170.6	169.1	167.1	164.0	160.9	159.0	155.8
72.5°	146.9	147.9	151.7	150.1	151.7	147.9	146.9	143.3	140.8	139.2	135.7
75°	115.2	118.0	120.3	119.2	120.3	118.0	115.2	112.6	110.6	108.3	105.2
77.5°	85.2	88.0	89.1	88.1	89.1	88.0	85.2	83.5	82.5	77.9	77.6
80°	67.3	67.0	69.3	68.9	69.3	67.0	67.3	64.6	62.6	60.0	60.0
82.5°	49.4	49.0	50.1	50.3	50.1	49.0	49.4	47.9	45.3	44.1	43.2
85°	23.9	25.1	23.6	23.2	23.6	25.1	23.9	22.4	22.4	22.4	22.0
87.5°	11.4	11.5	11.2	11.0	11.2	11.5	11.4	11.3	12.4	11.3	11.1
90°	29.1	29.5	30.0	30.4	30.0	29.5	29.1	28.6	28.0	27.1	26.2
92.5°	32.8	33.1	33.4	33.6	33.4	33.1	32.8	32.6	31.7	30.3	28.9
95°	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	37.8	36.2	34.6
97.5°	41.1	41.3	41.6	41.8	41.6	41.3	41.1	40.9	39.9	38.1	36.3
100°	41.9	42.1	42.4	42.6	42.4	42.1	41.9	41.7	40.7	38.9	37.1
102.5°	42.2	42.6	43.0	43.4	43.0	42.6	42.2	41.8	44.3	50.0	55.5
105°	43.3	43.7	44.1	44.6	44.1	43.7	43.3	42.8	62.5	102.4	142.4
107.5°	230.4	200.4	170.3	140.2	170.3	200.4	230.4	260.4	290.1	319.4	348.6
110°	375.7	343.4	311.1	278.9	311.1	343.4	375.7	407.9	427.7	435.2	442.6



TEST NUMBER: P332132-840

CATALOG NUMBER: S123DIW-S560D1030U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	499.0	492.2	485.3	478.6	485.3	492.2	499.0	505.7	509.1	509.0	508.9
115°	593.7	594.6	595.5	596.4	595.5	594.6	593.7	592.8	591.3	589.0	586.7
117.5°	662.0	662.2	662.4	662.6	662.4	662.2	662.0	661.9	660.9	659.0	657.2
120°	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	707.1	705.3	703.5
122.5°	752.0	752.2	752.5	752.7	752.5	752.2	752.0	751.9	751.1	749.9	748.6
125°	814.2	814.6	815.1	815.5	815.1	814.6	814.2	813.7	813.2	812.8	812.3
127.5°	877.3	876.9	876.5	876.0	876.5	876.9	877.3	877.8	877.7	876.9	876.2
130°	916.3	915.8	915.3	914.9	915.3	915.8	916.3	916.8	916.5	915.5	914.7
132.5°	952.5	951.9	951.3	950.6	951.3	951.9	952.5	953.1	953.0	952.1	951.2
135°	1007.2	1006.5	1005.8	1005.2	1005.8	1006.5	1007.2	1007.8	1007.8	1007.2	1006.5
137.5°	1057.8	1057.4	1056.9	1056.5	1056.9	1057.4	1057.8	1058.3	1058.0	1056.9	1055.8
140°	1088.7	1088.2	1087.8	1087.3	1087.8	1088.2	1088.7	1089.1	1088.9	1088.0	1087.1
142.5°	1117.6	1117.0	1116.4	1115.7	1116.4	1117.0	1117.6	1118.2	1118.2	1117.5	1116.8
145°	1159.3	1159.3	1159.3	1159.3	1159.3	1159.3	1159.3	1159.3	1159.1	1158.7	1158.2
147.5°	1195.0	1193.9	1192.9	1191.8	1192.9	1193.9	1195.0	1196.0	1196.3	1195.8	1195.4
150°	1218.2	1217.5	1216.9	1216.2	1216.9	1217.5	1218.2	1218.9	1219.0	1218.5	1218.1
152.5°	1238.7	1237.7	1236.7	1235.7	1236.7	1237.7	1238.7	1239.8	1239.9	1239.1	1238.3
155°	1266.9	1265.6	1264.1	1262.8	1264.1	1265.6	1266.9	1268.2	1268.4	1267.2	1266.1
157.5°	1291.0	1289.3	1287.5	1285.8	1287.5	1289.3	1291.0	1292.7	1292.9	1291.6	1290.3
160°	1305.0	1303.5	1301.9	1300.3	1301.9	1303.5	1305.0	1306.7	1306.8	1305.5	1304.0
162.5°	1318.4	1317.0	1315.6	1314.1	1315.6	1317.0	1318.4	1319.7	1319.7	1318.2	1316.6
165°	1335.5	1333.9	1332.3	1330.8	1332.3	1333.9	1335.5	1337.1	1337.0	1335.1	1333.3
167.5°	1348.2	1346.4	1344.5	1342.7	1344.5	1346.4	1348.2	1350.0	1350.0	1348.2	1346.4
170°	1355.4	1353.6	1351.8	1350.1	1351.8	1353.6	1355.4	1357.3	1357.3	1355.4	1353.6
172.5°	1360.1	1358.1	1356.0	1354.1	1356.0	1358.1	1360.1	1362.0	1362.1	1360.3	1358.6
175°	1365.6	1363.8	1362.0	1360.2	1362.0	1363.8	1365.6	1367.5	1367.6	1365.9	1364.3
177.5°	1367.5	1365.6	1363.8	1362.0	1363.8	1365.6	1367.5	1369.3	1369.4	1368.0	1366.5
180°	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	765.5	765.5	771.3	775.1	779.7	782.8	785.0	787.2	790.8	795.9	801.4
5°	721.8	723.3	731.7	740.3	748.4	755.4	761.1	768.1	776.7	787.1	798.7
7.5°	679.3	685.3	693.9	704.3	715.6	725.8	736.0	747.5	759.4	774.9	791.1
10°	652.1	658.6	669.1	682.3	694.3	706.2	719.0	731.3	746.5	764.7	785.6
12.5°	628.2	634.5	645.3	659.6	671.1	684.3	698.9	715.0	732.0	753.9	777.5
15°	595.2	602.6	615.7	622.7	640.2	656.0	669.5	692.7	714.4	736.8	764.3
17.5°	568.2	572.3	582.9	595.8	608.8	626.6	644.4	663.7	685.3	712.8	747.1
20°	549.6	553.1	564.7	578.2	592.2	608.4	624.3	643.6	667.9	697.0	734.1
22.5°	535.6	539.5	547.0	561.5	574.5	587.9	603.8	626.9	652.8	681.2	721.4
25°	515.5	517.9	522.9	534.5	546.1	561.2	575.1	596.8	623.5	656.7	697.0
27.5°	496.4	498.7	502.9	511.2	522.1	534.3	549.5	567.8	594.9	631.1	673.8
30°	485.0	485.4	489.3	497.0	506.2	516.3	530.3	551.2	576.6	613.4	658.3
32.5°	475.1	473.6	476.3	482.1	491.1	501.2	512.6	533.2	557.8	593.9	640.1
35°	458.3	457.6	456.4	461.4	469.2	476.9	487.0	502.4	530.3	563.9	612.3
37.5°	441.2	439.4	437.3	439.6	445.7	453.7	462.4	476.2	500.2	537.2	583.5
40°	428.6	427.0	425.9	425.1	430.5	438.2	444.7	458.0	480.4	515.5	561.2
42.5°	414.7	413.7	412.2	411.1	415.7	421.5	428.4	440.0	462.4	495.4	538.7
45°	392.2	391.4	390.6	389.9	392.5	398.0	403.4	411.9	431.2	463.3	502.4
47.5°	367.2	366.2	366.5	365.3	367.9	371.5	375.4	384.5	403.0	428.9	457.5
50°	349.2	348.9	348.9	348.9	349.6	353.9	357.4	364.4	381.3	407.3	427.8
52.5°	332.2	330.6	330.6	331.2	332.6	335.4	337.6	345.2	360.0	381.3	399.9
55°	305.6	302.5	301.6	302.5	303.7	305.9	308.2	314.5	327.2	343.1	353.9
57.5°	276.0	274.3	273.3	273.5	274.1	275.9	277.7	284.5	294.5	302.8	309.7
60°	255.3	256.0	252.6	253.4	253.4	254.9	257.6	261.9	270.3	276.2	283.2
62.5°	235.8	234.7	233.7	232.6	232.6	233.2	236.8	240.1	247.4	250.4	255.9
65°	205.4	205.4	203.1	203.8	204.2	201.5	203.5	207.3	212.0	213.1	218.1
67.5°	174.6	173.5	172.2	171.1	171.1	170.8	171.8	173.7	177.2	177.6	181.5
70°	153.5	152.8	152.4	151.3	149.7	151.6	150.5	152.4	154.3	154.7	157.0
72.5°	133.1	132.4	131.7	130.5	129.9	129.7	129.8	132.0	133.3	132.7	135.3
75°	104.0	103.3	102.5	100.6	100.6	99.4	99.8	101.3	102.9	101.7	104.0
77.5°	76.4	74.0	73.9	74.4	73.1	73.3	72.9	72.6	73.3	73.4	75.5
80°	58.8	56.0	56.9	56.5	56.0	55.7	54.9	55.3	55.7	56.0	57.3
82.5°	42.4	42.1	41.4	41.3	40.9	39.9	39.5	40.2	40.5	40.3	41.2
85°	21.6	20.5	21.3	20.9	21.3	20.9	19.7	19.7	20.5	20.1	20.9
87.5°	11.5	11.4	10.5	10.2	9.3	9.0	8.2	8.1	7.9	7.5	7.7
90°	25.2	24.3	21.4	18.5	15.6	12.6	10.0	7.8	5.6	3.2	1.0
92.5°	27.4	26.0	23.7	21.5	19.4	17.2	16.4	17.0	17.6	18.3	18.9
95°	33.0	31.4	29.0	26.5	24.0	21.5	24.9	34.1	43.4	52.6	61.9
97.5°	34.4	32.6	48.9	65.1	81.4	97.6	107.8	111.9	116.0	120.2	124.3
100°	35.2	33.4	68.7	103.8	139.0	174.1	189.5	184.9	180.5	175.9	171.4
102.5°	61.2	66.8	105.1	143.6	182.0	220.4	237.9	234.7	231.5	228.2	225.0
105°	182.3	222.2	242.5	262.7	283.0	303.3	312.1	309.7	307.2	304.8	302.3
107.5°	377.9	407.2	403.9	400.7	397.6	394.4	391.7	389.8	387.8	385.8	383.8
110°	450.0	457.5	454.9	452.5	450.0	447.6	445.4	443.6	441.8	440.0	438.2



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	508.7	508.6	506.1	503.6	501.1	498.7	496.7	495.0	493.3	491.7	490.1
115°	584.5	582.2	580.2	578.1	576.1	574.1	572.4	571.1	569.7	568.4	567.0
117.5°	655.4	653.6	652.6	651.6	650.6	649.4	648.1	646.4	644.8	643.1	641.5
120°	701.7	699.8	699.2	698.5	697.8	697.2	695.8	693.8	691.8	689.7	687.7
122.5°	747.4	746.1	745.3	744.4	743.6	742.7	741.4	739.7	738.1	736.4	734.8
125°	811.9	811.4	810.5	809.6	808.7	807.9	806.5	804.7	802.8	801.1	799.3
127.5°	875.5	874.7	873.6	872.6	871.5	870.4	869.0	867.2	865.4	863.5	861.7
130°	913.8	912.9	912.0	911.1	910.2	909.3	908.0	906.2	904.3	902.5	900.7
132.5°	950.3	949.4	948.7	948.0	947.3	946.5	945.2	943.4	941.6	939.9	938.1
135°	1005.8	1005.2	1004.3	1003.4	1002.5	1001.6	1000.5	999.1	997.7	996.4	995.0
137.5°	1054.7	1053.7	1053.2	1052.7	1052.2	1051.7	1050.6	1048.8	1047.1	1045.4	1043.7
140°	1086.2	1085.3	1084.6	1084.0	1083.3	1082.6	1081.6	1080.3	1078.9	1077.5	1076.2
142.5°	1116.1	1115.3	1114.7	1114.0	1113.3	1112.7	1111.7	1110.2	1108.9	1107.5	1106.2
145°	1157.8	1157.3	1156.9	1156.4	1156.0	1155.5	1154.5	1153.0	1151.3	1149.7	1148.2
147.5°	1194.9	1194.5	1194.0	1193.6	1193.1	1192.7	1191.9	1190.8	1189.8	1188.8	1187.8
150°	1217.6	1217.2	1216.7	1216.3	1215.8	1215.4	1214.8	1214.2	1213.5	1212.7	1212.1
152.5°	1237.5	1236.7	1236.4	1236.1	1235.9	1235.6	1235.3	1235.0	1234.7	1234.4	1234.1
155°	1265.0	1263.8	1263.6	1263.3	1263.1	1262.9	1263.0	1263.5	1263.9	1264.4	1264.9
157.5°	1288.9	1287.6	1287.8	1288.0	1288.3	1288.5	1288.6	1288.7	1288.7	1288.8	1288.8
160°	1302.7	1301.4	1301.6	1301.8	1302.0	1302.2	1302.5	1302.7	1302.9	1303.1	1303.4
162.5°	1315.0	1313.5	1313.7	1314.0	1314.2	1314.4	1314.8	1315.5	1316.1	1316.6	1317.2
165°	1331.6	1329.8	1330.0	1330.2	1330.4	1330.7	1331.1	1331.8	1332.5	1333.1	1333.8
167.5°	1344.5	1342.7	1342.7	1342.7	1342.7	1342.7	1343.2	1344.1	1345.0	1345.9	1346.8
170°	1351.8	1350.1	1350.1	1350.1	1350.1	1350.1	1350.5	1351.4	1352.3	1353.2	1354.1
172.5°	1356.8	1354.9	1354.7	1354.5	1354.3	1354.2	1354.6	1355.7	1356.9	1357.9	1359.0
175°	1362.8	1361.2	1361.0	1360.8	1360.5	1360.3	1360.8	1361.9	1363.0	1364.1	1365.2
177.5°	1365.1	1363.6	1363.4	1363.3	1363.1	1362.9	1363.3	1364.2	1365.1	1365.9	1366.9
180°	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2



TEST NUMBER: P332132-840

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	803.2	804.8	810.0	813.7	818.1	820.6	823.0	825.0	827.4	828.0	837.0
5°	806.8	814.6	828.1	838.1	850.5	864.0	873.3	877.6	888.8	898.1	916.7
7.5°	805.8	822.2	842.7	863.9	886.7	907.7	925.9	947.6	963.0	986.1	1009.0
10°	804.9	826.9	853.2	880.3	912.0	941.4	967.8	997.1	1021.5	1053.6	1081.1
12.5°	802.1	828.8	865.3	897.3	935.8	976.3	1015.3	1053.1	1074.7	1128.1	1153.5
15°	795.2	826.9	872.5	921.3	974.3	1022.3	1071.8	1111.2	1175.0	1221.8	1251.6
17.5°	782.0	826.5	880.6	939.4	1003.8	1067.0	1123.1	1183.0	1250.7	1307.3	1367.7
20°	775.9	824.6	884.9	949.9	1016.8	1088.3	1152.2	1224.2	1298.0	1353.7	1431.1
22.5°	764.5	819.6	884.6	957.0	1028.5	1102.6	1177.3	1249.8	1335.1	1411.9	1485.5
25°	745.7	807.6	874.8	955.7	1039.7	1113.9	1203.3	1299.6	1388.6	1487.1	1560.6
27.5°	726.1	792.1	859.6	934.7	1025.0	1113.2	1225.6	1334.3	1443.1	1528.3	1582.7
30°	710.8	775.1	844.8	920.5	1009.9	1114.7	1240.4	1359.1	1465.1	1538.2	1568.7
32.5°	694.5	759.6	821.2	900.7	995.9	1113.8	1249.7	1373.6	1466.3	1515.0	1509.0
35°	668.7	723.3	783.3	859.8	972.0	1106.9	1255.1	1374.9	1431.8	1421.4	1342.5
37.5°	631.6	677.5	736.5	820.3	944.1	1092.7	1244.3	1334.2	1330.5	1245.5	1131.1
40°	608.4	647.4	704.3	792.5	922.4	1083.4	1227.2	1285.7	1236.2	1117.4	980.5
42.5°	578.0	614.0	670.9	761.5	898.7	1064.5	1194.8	1211.6	1114.8	978.2	852.7
45°	531.1	562.8	621.6	715.2	862.9	1023.4	1115.5	1074.1	943.7	802.5	707.0
47.5°	480.5	513.5	570.1	666.2	811.2	961.6	1005.4	917.5	783.6	669.1	581.4
50°	448.7	480.4	535.6	632.8	776.3	910.9	929.1	815.4	692.4	591.8	519.8
52.5°	416.5	446.4	500.7	598.1	735.4	852.0	840.8	725.0	611.9	526.1	469.7
55°	368.6	396.9	448.7	540.0	664.9	757.3	716.7	606.1	512.5	446.0	403.0
57.5°	325.8	352.8	397.5	480.0	588.5	652.1	600.5	507.3	432.8	381.6	349.6
60°	296.7	320.6	363.1	439.8	534.1	582.5	531.4	449.1	386.4	345.4	316.8
62.5°	269.1	290.0	329.4	398.9	480.9	521.5	469.9	400.1	346.8	310.4	286.1
65°	227.4	246.4	281.1	335.4	402.6	429.7	385.3	328.7	287.4	260.3	244.1
67.5°	189.3	205.4	235.5	278.1	327.7	347.4	313.6	269.8	238.6	216.9	204.0
70°	164.0	177.9	201.5	238.2	283.2	298.2	266.5	230.6	207.7	190.3	178.3
72.5°	142.6	152.9	174.3	202.7	240.1	252.1	229.9	198.3	177.0	164.0	154.5
75°	108.7	117.1	131.1	153.9	179.9	186.8	170.2	150.5	136.1	126.8	119.5
77.5°	78.4	84.6	94.7	108.8	126.7	133.0	122.5	109.3	98.9	92.6	88.5
80°	59.2	64.2	72.7	84.3	95.1	98.7	92.4	82.4	75.0	71.6	68.1
82.5°	43.7	46.6	51.7	59.6	67.0	71.1	65.8	59.8	55.8	52.7	51.4
85°	22.0	23.6	26.0	29.0	33.6	35.2	33.2	31.7	29.4	27.5	27.5
87.5°	8.7	9.2	10.5	11.6	13.3	14.8	15.1	15.1	15.3	15.2	15.1
90°	3.2	5.6	7.8	10.0	12.6	15.6	18.5	21.4	24.3	25.2	26.2
92.5°	18.3	17.6	17.0	16.4	17.2	19.4	21.5	23.7	26.0	27.4	28.9
95°	52.6	43.4	34.1	24.9	21.5	24.0	26.5	29.0	31.4	33.0	34.6
97.5°	120.2	116.0	111.9	107.8	97.6	81.4	65.1	48.9	32.6	34.4	36.3
100°	175.9	180.5	184.9	189.5	174.1	139.0	103.8	68.7	33.4	35.2	37.1
102.5°	228.2	231.5	234.7	237.9	220.4	182.0	143.6	105.1	66.8	61.2	55.5
105°	304.8	307.2	309.7	312.1	303.3	283.0	262.7	242.5	222.2	182.3	142.4
107.5°	385.8	387.8	389.8	391.7	394.4	397.6	400.7	403.9	407.2	377.9	348.6
110°	440.0	441.8	443.6	445.4	447.6	450.0	452.5	454.9	457.5	450.0	442.6





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	491.7	493.3	495.0	496.7	498.7	501.1	503.6	506.1	508.6	508.7	508.9
115°	568.4	569.7	571.1	572.4	574.1	576.1	578.1	580.2	582.2	584.5	586.7
117.5°	643.1	644.8	646.4	648.1	649.4	650.6	651.6	652.6	653.6	655.4	657.2
120°	689.7	691.8	693.8	695.8	697.2	697.8	698.5	699.2	699.8	701.7	703.5
122.5°	736.4	738.1	739.7	741.4	742.7	743.6	744.4	745.3	746.1	747.4	748.6
125°	801.1	802.8	804.7	806.5	807.9	808.7	809.6	810.5	811.4	811.9	812.3
127.5°	863.5	865.4	867.2	869.0	870.4	871.5	872.6	873.6	874.7	875.5	876.2
130°	902.5	904.3	906.2	908.0	909.3	910.2	911.1	912.0	912.9	913.8	914.7
132.5°	939.9	941.6	943.4	945.2	946.5	947.3	948.0	948.7	949.4	950.3	951.2
135°	996.4	997.7	999.1	1000.5	1001.6	1002.5	1003.4	1004.3	1005.2	1005.8	1006.5
137.5°	1045.4	1047.1	1048.8	1050.6	1051.7	1052.2	1052.7	1053.2	1053.7	1054.7	1055.8
140°	1077.5	1078.9	1080.3	1081.6	1082.6	1083.3	1084.0	1084.6	1085.3	1086.2	1087.1
142.5°	1107.5	1108.9	1110.2	1111.7	1112.7	1113.3	1114.0	1114.7	1115.3	1116.1	1116.8
145°	1149.7	1151.3	1153.0	1154.5	1155.5	1156.0	1156.4	1156.9	1157.3	1157.8	1158.2
147.5°	1188.8	1189.8	1190.8	1191.9	1192.7	1193.1	1193.6	1194.0	1194.5	1194.9	1195.4
150°	1212.7	1213.5	1214.2	1214.8	1215.4	1215.8	1216.3	1216.7	1217.2	1217.6	1218.1
152.5°	1234.4	1234.7	1235.0	1235.3	1235.6	1235.9	1236.1	1236.4	1236.7	1237.5	1238.3
155°	1264.4	1263.9	1263.5	1263.0	1262.9	1263.1	1263.3	1263.6	1263.8	1265.0	1266.1
157.5°	1288.8	1288.7	1288.7	1288.6	1288.5	1288.3	1288.0	1287.8	1287.6	1288.9	1290.3
160°	1303.1	1302.9	1302.7	1302.5	1302.2	1302.0	1301.8	1301.6	1301.4	1302.7	1304.0
162.5°	1316.6	1316.1	1315.5	1314.8	1314.4	1314.2	1314.0	1313.7	1313.5	1315.0	1316.6
165°	1333.1	1332.5	1331.8	1331.1	1330.7	1330.4	1330.2	1330.0	1329.8	1331.6	1333.3
167.5°	1345.9	1345.0	1344.1	1343.2	1342.7	1342.7	1342.7	1342.7	1342.7	1344.5	1346.4
170°	1353.2	1352.3	1351.4	1350.5	1350.1	1350.1	1350.1	1350.1	1350.1	1351.8	1353.6
172.5°	1357.9	1356.9	1355.7	1354.6	1354.2	1354.3	1354.5	1354.7	1354.9	1356.8	1358.6
175°	1364.1	1363.0	1361.9	1360.8	1360.3	1360.5	1360.8	1361.0	1361.2	1362.8	1364.3
177.5°	1365.9	1365.1	1364.2	1363.3	1362.9	1363.1	1363.3	1363.4	1363.6	1365.1	1366.5
180°	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	840.1	840.4	843.7	846.3	845.1	846.6	847.2
5°	917.8	931.7	939.1	944.5	944.9	945.2	948.4
7.5°	1028.0	1043.0	1053.9	1070.5	1075.4	1081.1	1079.4
10°	1108.5	1130.5	1149.5	1159.5	1170.3	1186.2	1173.5
12.5°	1183.7	1222.7	1251.6	1267.2	1277.5	1280.6	1274.3
15°	1307.7	1358.8	1386.2	1385.4	1420.3	1435.3	1411.7
17.5°	1421.4	1468.5	1506.2	1525.6	1554.6	1561.0	1558.1
20°	1491.0	1542.5	1571.9	1605.1	1620.2	1633.8	1636.1
22.5°	1551.1	1597.2	1628.8	1656.5	1669.1	1675.5	1679.4
25°	1612.9	1649.2	1668.2	1677.8	1681.3	1680.5	1675.5
27.5°	1608.6	1611.3	1590.5	1570.0	1551.7	1531.0	1523.9
30°	1566.8	1534.3	1476.3	1443.4	1395.1	1356.8	1372.3
32.5°	1456.9	1392.3	1327.2	1255.3	1195.8	1178.9	1161.8
35°	1243.4	1129.7	1063.3	985.9	954.9	924.0	902.7
37.5°	1006.0	918.1	839.1	788.5	757.5	738.0	727.4
40°	869.9	790.5	725.6	684.6	661.0	638.9	635.8
42.5°	761.2	687.5	638.6	606.0	583.3	574.0	567.1
45°	623.5	572.0	539.2	515.9	500.9	495.0	487.4
47.5°	527.8	491.4	466.7	450.9	439.5	435.2	434.5
50°	474.2	444.0	425.9	413.4	404.6	403.0	396.9
52.5°	433.9	407.8	393.6	382.8	376.4	372.0	370.2
55°	376.7	359.3	346.6	340.3	335.4	331.0	331.0
57.5°	329.6	315.1	306.6	301.3	299.8	296.8	294.9
60°	300.5	288.1	281.6	276.9	273.9	274.2	270.7
62.5°	272.1	264.0	257.7	253.1	249.4	249.4	249.7
65°	231.7	225.5	220.9	219.3	217.0	214.3	215.0
67.5°	196.3	190.6	186.9	184.3	183.5	182.0	184.3
70°	171.0	166.7	164.0	161.7	160.9	161.3	163.2
72.5°	147.7	144.7	143.0	141.9	140.2	140.3	141.6
75°	116.0	113.7	112.2	111.0	110.6	110.6	110.6
77.5°	85.2	84.7	84.0	82.3	82.4	82.8	82.9
80°	67.3	66.1	65.7	64.9	63.8	63.0	64.9
82.5°	50.3	49.1	48.8	48.6	46.8	46.7	48.3
85°	27.1	26.0	26.3	26.0	26.0	25.5	25.5
87.5°	15.0	14.8	14.7	15.1	14.8	14.6	15.3
90°	27.1	28.0	28.6	29.1	29.5	30.0	30.4
92.5°	30.3	31.7	32.6	32.8	33.1	33.4	33.6
95°	36.2	37.8	38.6	38.6	38.6	38.6	38.6
97.5°	38.1	39.9	40.9	41.1	41.3	41.6	41.8
100°	38.9	40.7	41.7	41.9	42.1	42.4	42.6
102.5°	50.0	44.3	41.8	42.2	42.6	43.0	43.4
105°	102.4	62.5	42.8	43.3	43.7	44.1	44.6
107.5°	319.4	290.1	260.4	230.4	200.4	170.3	140.2
110°	435.2	427.7	407.9	375.7	343.4	311.1	278.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	509.0	509.1	505.7	499.0	492.2	485.3	478.6
115°	589.0	591.3	592.8	593.7	594.6	595.5	596.4
117.5°	659.0	660.9	661.9	662.0	662.2	662.4	662.6
120°	705.3	707.1	708.0	708.0	708.0	708.0	708.0
122.5°	749.9	751.1	751.9	752.0	752.2	752.5	752.7
125°	812.8	813.2	813.7	814.2	814.6	815.1	815.5
127.5°	876.9	877.7	877.8	877.3	876.9	876.5	876.0
130°	915.5	916.5	916.8	916.3	915.8	915.3	914.9
132.5°	952.1	953.0	953.1	952.5	951.9	951.3	950.6
135°	1007.2	1007.8	1007.8	1007.2	1006.5	1005.8	1005.2
137.5°	1056.9	1058.0	1058.3	1057.8	1057.4	1056.9	1056.5
140°	1088.0	1088.9	1089.1	1088.7	1088.2	1087.8	1087.3
142.5°	1117.5	1118.2	1118.2	1117.6	1117.0	1116.4	1115.7
145°	1158.7	1159.1	1159.3	1159.3	1159.3	1159.3	1159.3
147.5°	1195.8	1196.3	1196.0	1195.0	1193.9	1192.9	1191.8
150°	1218.5	1219.0	1218.9	1218.2	1217.5	1216.9	1216.2
152.5°	1239.1	1239.9	1239.8	1238.7	1237.7	1236.7	1235.7
155°	1267.2	1268.4	1268.2	1266.9	1265.6	1264.1	1262.8
157.5°	1291.6	1292.9	1292.7	1291.0	1289.3	1287.5	1285.8
160°	1305.5	1306.8	1306.7	1305.0	1303.5	1301.9	1300.3
162.5°	1318.2	1319.7	1319.7	1318.4	1317.0	1315.6	1314.1
165°	1335.1	1337.0	1337.1	1335.5	1333.9	1332.3	1330.8
167.5°	1348.2	1350.0	1350.0	1348.2	1346.4	1344.5	1342.7
170°	1355.4	1357.3	1357.3	1355.4	1353.6	1351.8	1350.1
172.5°	1360.3	1362.1	1362.0	1360.1	1358.1	1356.0	1354.1
175°	1365.9	1367.6	1367.5	1365.6	1363.8	1362.0	1360.2
177.5°	1368.0	1369.4	1369.3	1367.5	1365.6	1363.8	1362.0
180°	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2

(END OF REPORT)