

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: P331937-830

Luminaire Tested: **S123DIP-S560D1025U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331937-830  
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: S123DIP-S560D1025U830-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1025 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6114.0 lumens  
Efficiency: N/A  
Efficacy: 137.4 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

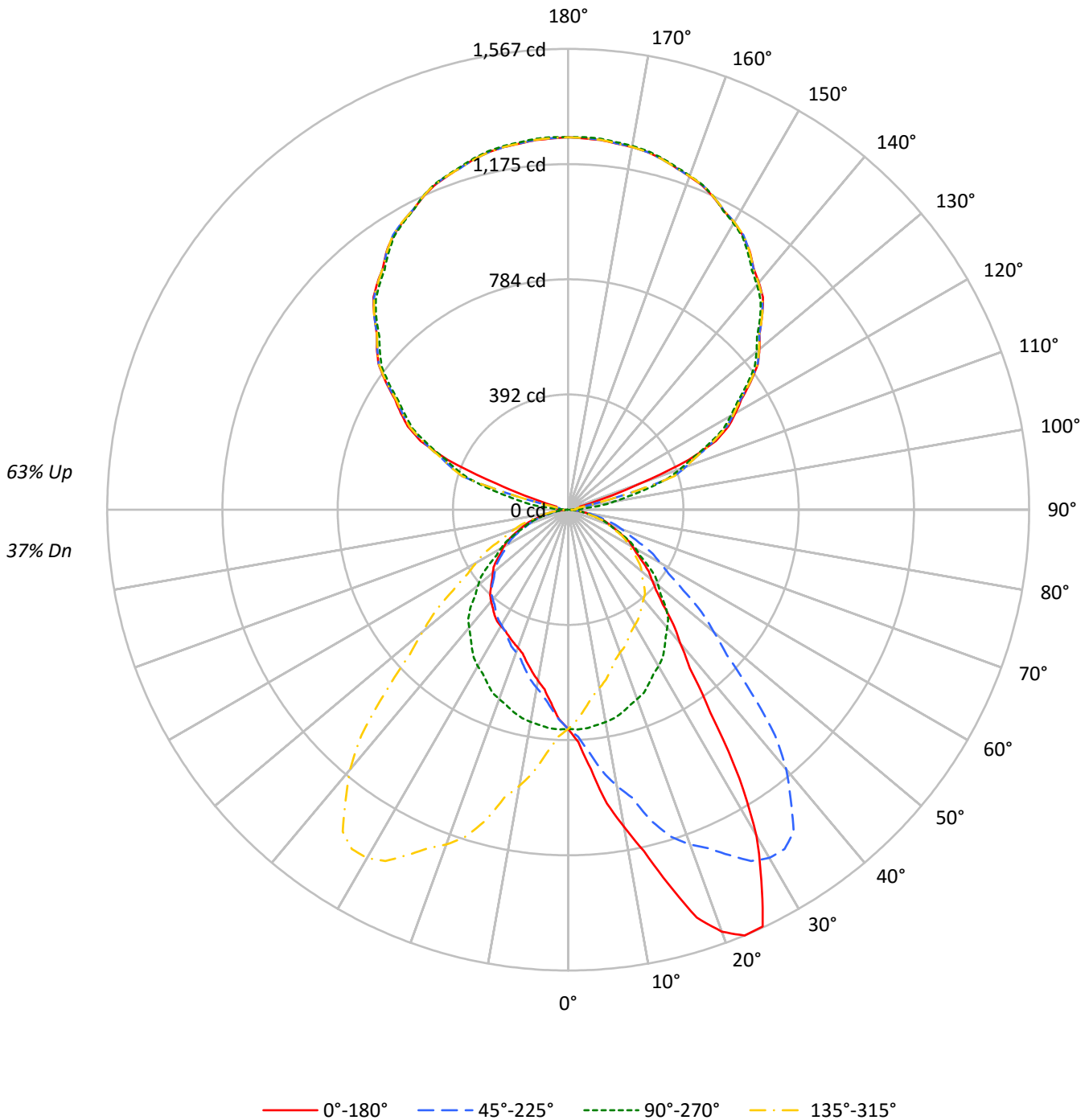
Input Watts (W): 44.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	83	79	77	67	65	63	52	51	50	39	38	38	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	36	31	29	27	23
4	72	62	54	49	65	57	50	45	46	41	38	37	33	31	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	30	25	44	34	27	23	28	23	20	23	19	16	18	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°	8020	8020	8020	8020
5°	9564	8055	7138	8055
10°	11970	8014	6446	8014
15°	14683	7949	6002	7949
20°	17491	7848	5715	7848
25°	18573	7726	5651	7726
30°	15919	7636	5680	7636
35°	11071	7510	5740	7510
40°	8338	7360	5722	7360
45°	6925	7138	5649	7138
50°	6203	6687	5598	6687
55°	5799	6199	5527	6199
60°	5440	5690	5470	5690
65°	5112	5186	5295	5186
70°	4793	4614	5042	4614
75°	4292	4038	4625	4038
80°	3756	3310	3986	3310
85°	2939	2408	2680	2408



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.4	1.2
10°-20°	235.3	3.8
20°-30°	395.0	6.5
30°-40°	447.2	7.3
40°-50°	401.1	6.6
50°-60°	323.7	5.3
60°-70°	225.5	3.7
70°-80°	118.5	1.9
80°-90°	32.5	0.5
90°-100°	46.0	0.8
100°-110°	219.4	3.6
110°-120°	527.0	8.6
120°-130°	671.1	11.0
130°-140°	717.1	11.7
140°-150°	670.6	11.0
150°-160°	540.9	8.8
160°-170°	349.1	5.7
170°-180°	120.3	2.0
0°-30°	703.7	11.5
0°-40°	1151.0	18.8
0°-60°	1875.7	30.7
0°-90°	2252.4	36.8
90°-120°	792.5	13.0
90°-150°	2851.3	46.6
90°-180°	3862.0	63.2
0°-180°	6114.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	745	745	745	745	745	
5°	885	746	661	746	885	92
15°	1318	713	539	713	1318	380
25°	1564	650	476	650	1564	686
35°	842	572	437	572	842	547
45°	455	469	371	469	455	360
55°	309	330	294	330	309	277
65°	201	204	208	204	201	200
75°	103	97	111	97	103	110
85°	24	20	22	20	24	29
90°	28	1	28	1	28	14
95°	36	57	36	57	36	30
105°	41	280	41	280	41	95
115°	553	526	553	526	553	511
125°	756	741	756	741	756	675
135°	932	923	932	923	932	719
145°	1075	1065	1075	1065	1075	671
155°	1171	1173	1171	1173	1171	540
165°	1234	1237	1234	1237	1234	349
175°	1262	1266	1262	1266	1262	120
180°	1266	1266	1266	1266	1266	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	790.7	790.1	788.7	789.9	787.5	784.4	784.1	781.2	772.8	772.2	770.0
5°	885.1	882.2	881.9	881.6	876.5	869.6	856.6	855.5	838.2	829.5	819.1
7.5°	1007.5	1009.0	1003.7	999.1	983.6	973.5	959.5	941.7	920.4	898.8	884.4
10°	1095.2	1107.1	1092.3	1082.2	1072.9	1055.2	1034.6	1009.0	983.4	953.4	930.7
12.5°	1189.4	1195.2	1192.3	1182.7	1168.2	1141.2	1104.8	1076.6	1052.9	1003.1	982.9
15°	1317.6	1339.6	1325.6	1293.1	1293.8	1268.2	1220.5	1168.2	1140.4	1096.6	1037.1
17.5°	1454.2	1457.0	1451.0	1423.9	1405.8	1370.6	1326.6	1276.5	1220.1	1167.3	1104.1
20°	1527.0	1524.8	1512.2	1498.1	1467.1	1439.6	1391.6	1335.7	1263.5	1211.4	1142.6
22.5°	1567.4	1563.8	1557.8	1546.1	1520.2	1490.7	1447.7	1386.5	1317.8	1246.1	1166.5
25°	1563.8	1568.5	1569.2	1565.9	1557.0	1539.3	1505.3	1456.6	1388.0	1296.0	1213.0
27.5°	1422.3	1428.9	1448.2	1465.4	1484.5	1503.9	1501.4	1477.2	1426.4	1346.9	1245.4
30°	1280.8	1266.3	1302.1	1347.2	1377.9	1432.0	1462.4	1464.1	1435.7	1367.4	1268.5
32.5°	1084.4	1100.3	1116.1	1171.6	1238.7	1299.5	1359.8	1408.4	1414.0	1368.6	1282.0
35°	842.5	862.4	891.3	920.2	992.4	1054.4	1160.6	1253.0	1326.6	1336.3	1283.3
37.5°	678.9	688.8	707.0	735.9	783.2	856.9	939.0	1055.7	1162.4	1241.8	1245.3
40°	593.4	596.3	616.9	638.9	677.2	737.8	811.9	915.1	1042.9	1153.8	1200.0
42.5°	529.3	535.7	544.4	565.6	596.1	641.7	710.5	795.9	912.9	1040.5	1130.9
45°	454.9	462.0	467.5	481.5	503.2	533.9	581.9	659.9	749.0	880.8	1002.5
47.5°	405.6	406.1	410.2	420.8	435.5	458.6	492.6	542.6	624.5	731.3	856.3
50°	370.4	376.2	377.6	385.9	397.5	414.4	442.6	485.1	552.3	646.2	761.0
52.5°	345.5	347.2	351.3	357.3	367.4	380.6	405.0	438.4	491.1	571.1	676.7
55°	309.0	309.0	313.0	317.6	323.5	335.4	351.6	376.2	416.2	478.3	565.7
57.5°	275.2	277.0	279.8	281.3	286.2	294.1	307.6	326.3	356.2	404.0	473.4
60°	252.7	255.9	255.6	258.4	262.8	268.9	280.5	295.7	322.3	360.6	419.1
62.5°	233.1	232.8	232.8	236.2	240.5	246.4	253.9	267.0	289.7	323.7	373.4
65°	200.7	200.0	202.6	204.7	206.1	210.5	216.2	227.8	243.0	268.2	306.8
67.5°	172.0	169.8	171.3	172.0	174.5	177.9	183.2	190.4	202.5	222.7	251.8
70°	152.3	150.5	150.1	150.9	153.1	155.6	159.6	166.5	177.6	193.9	215.2
72.5°	132.1	130.9	130.8	132.4	133.5	135.1	137.9	144.2	153.1	165.2	185.1
75°	103.2	103.2	103.2	103.6	104.7	106.1	108.3	111.5	118.4	127.1	140.4
77.5°	77.4	77.3	76.9	76.8	78.4	79.1	79.6	82.6	86.4	92.3	102.0
80°	60.6	58.8	59.6	60.6	61.4	61.7	62.8	63.5	66.8	70.0	76.9
82.5°	45.1	43.5	43.6	45.3	45.5	45.8	46.9	48.0	49.2	52.1	55.8
85°	23.8	23.8	24.2	24.2	24.5	24.2	25.3	25.6	25.6	27.4	29.6
87.5°	14.3	13.7	13.9	14.0	13.7	13.9	13.9	14.1	14.2	14.3	14.0
90°	28.2	27.8	27.4	27.0	26.6	25.9	25.1	24.2	23.4	22.6	19.9
92.5°	31.2	31.0	30.7	30.4	30.3	29.4	28.1	26.8	25.4	24.1	22.1
95°	35.7	35.7	35.7	35.7	35.7	35.1	33.6	32.0	30.6	29.1	26.9
97.5°	38.7	38.5	38.4	38.2	37.9	36.9	35.3	33.6	32.0	30.3	45.3
100°	39.5	39.3	39.1	38.9	38.6	37.7	36.1	34.4	32.7	31.0	63.6
102.5°	40.2	39.9	39.5	39.1	38.7	41.2	46.4	51.6	56.7	61.9	97.6
105°	41.4	41.0	40.5	40.2	39.7	58.1	95.0	132.1	169.0	206.0	224.9
107.5°	130.0	157.9	185.8	213.7	241.6	269.1	296.2	323.4	350.5	377.7	374.7
110°	258.7	288.6	318.5	348.4	378.3	396.7	403.6	410.5	417.4	424.3	422.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	443.8	450.2	456.5	462.8	469.1	472.2	472.1	471.9	471.8	471.7	469.4
115°	553.2	552.3	551.5	550.6	549.9	548.4	546.3	544.2	542.2	540.0	538.1
117.5°	614.5	614.3	614.2	614.1	613.9	612.9	611.2	609.6	607.9	606.2	605.3
120°	656.7	656.7	656.7	656.7	656.7	655.8	654.1	652.5	650.8	649.1	648.6
122.5°	698.0	697.9	697.8	697.6	697.4	696.7	695.6	694.4	693.2	692.0	691.3
125°	756.4	756.0	755.5	755.2	754.7	754.3	753.8	753.5	753.1	752.6	751.8
127.5°	812.5	812.8	813.3	813.7	814.2	814.0	813.3	812.7	812.0	811.3	810.3
130°	848.6	849.0	849.4	849.9	850.3	850.1	849.2	848.4	847.5	846.7	845.8
132.5°	881.7	882.3	882.9	883.4	884.0	883.9	883.1	882.2	881.5	880.6	880.0
135°	932.4	932.9	933.6	934.2	934.8	934.8	934.2	933.6	932.9	932.4	931.5
137.5°	980.0	980.3	980.8	981.2	981.6	981.3	980.3	979.3	978.3	977.3	976.9
140°	1008.5	1009.0	1009.4	1009.7	1010.2	1010.0	1009.2	1008.3	1007.5	1006.6	1006.1
142.5°	1034.9	1035.5	1036.0	1036.6	1037.2	1037.2	1036.5	1035.9	1035.2	1034.5	1033.9
145°	1075.3	1075.3	1075.3	1075.3	1075.3	1075.2	1074.7	1074.3	1073.8	1073.5	1073.0
147.5°	1105.4	1106.4	1107.4	1108.3	1109.3	1109.6	1109.1	1108.7	1108.3	1107.9	1107.5
150°	1128.0	1128.6	1129.3	1129.9	1130.5	1130.7	1130.2	1129.8	1129.4	1129.0	1128.5
152.5°	1146.0	1147.1	1148.0	1149.0	1149.9	1150.0	1149.2	1148.5	1147.7	1147.0	1146.8
155°	1171.3	1172.5	1173.8	1175.1	1176.3	1176.4	1175.4	1174.3	1173.3	1172.2	1172.1
157.5°	1192.6	1194.2	1195.8	1197.4	1199.1	1199.3	1198.0	1196.7	1195.5	1194.2	1194.5
160°	1206.1	1207.6	1209.0	1210.5	1211.9	1212.0	1210.8	1209.6	1208.3	1207.0	1207.2
162.5°	1218.9	1220.2	1221.4	1222.8	1224.1	1224.0	1222.6	1221.2	1219.7	1218.3	1218.5
165°	1234.4	1235.8	1237.3	1238.7	1240.2	1240.1	1238.4	1236.7	1235.0	1233.4	1233.6
167.5°	1245.4	1247.1	1248.8	1250.5	1252.1	1252.1	1250.5	1248.8	1247.1	1245.4	1245.4
170°	1252.2	1253.9	1255.6	1257.3	1258.9	1258.9	1257.3	1255.6	1253.9	1252.2	1252.2
172.5°	1255.9	1257.8	1259.6	1261.5	1263.3	1263.4	1261.7	1260.1	1258.4	1256.7	1256.5
175°	1261.6	1263.3	1265.0	1266.6	1268.3	1268.4	1267.0	1265.5	1264.0	1262.5	1262.3
177.5°	1263.3	1265.0	1266.7	1268.3	1270.0	1270.2	1268.9	1267.4	1266.1	1264.8	1264.6
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	768.2	765.9	763.6	759.5	756.0	751.1	749.7	748.0	742.8	738.1	734.7
5°	815.1	806.4	793.8	782.2	772.9	760.3	753.0	745.5	734.6	724.9	716.9
7.5°	864.2	847.2	827.6	806.3	786.6	767.4	752.1	738.4	723.2	708.8	697.7
10°	903.2	878.6	851.2	821.6	796.4	771.8	751.2	733.2	713.7	696.7	682.6
12.5°	947.6	911.3	873.5	837.4	807.6	773.5	748.7	725.7	703.6	683.2	667.3
15°	1000.3	954.1	909.4	859.9	814.4	771.8	742.2	713.3	687.7	666.8	646.5
17.5°	1048.2	995.9	936.9	876.8	821.9	771.4	729.9	697.3	665.2	639.6	619.4
20°	1075.3	1015.8	949.0	886.6	826.0	769.6	724.2	685.1	650.5	623.4	600.7
22.5°	1098.8	1029.1	960.0	893.2	825.7	765.0	713.5	673.4	635.7	609.3	585.1
25°	1123.0	1039.6	970.3	892.0	816.5	753.8	696.0	650.5	612.9	581.9	557.0
27.5°	1143.9	1039.0	956.7	872.4	802.3	739.3	677.7	628.9	589.0	555.3	530.0
30°	1157.7	1040.4	942.5	859.1	788.4	723.4	663.5	614.4	572.5	538.2	514.4
32.5°	1166.4	1039.5	929.5	840.7	766.5	709.0	648.2	597.4	554.3	520.7	497.7
35°	1171.4	1033.1	907.2	802.5	731.0	675.0	624.2	571.5	526.3	494.9	468.9
37.5°	1161.3	1019.8	881.2	765.6	687.4	632.4	589.5	544.6	501.4	466.8	444.4
40°	1145.4	1011.2	860.9	739.7	657.3	604.3	567.9	523.8	481.2	448.4	427.4
42.5°	1115.1	993.5	838.8	710.8	626.1	573.1	539.5	502.8	462.4	431.6	410.7
45°	1041.1	955.2	805.4	667.5	580.1	525.3	495.7	468.9	432.4	402.5	384.5
47.5°	938.4	897.5	757.1	621.8	532.1	479.3	448.5	427.0	400.3	376.2	358.8
50°	867.1	850.2	724.5	590.6	499.9	448.4	418.8	399.3	380.1	355.9	340.1
52.5°	784.8	795.2	686.4	558.3	467.3	416.6	388.7	373.2	355.9	336.0	322.2
55°	668.9	706.8	620.6	504.0	418.8	370.4	344.0	330.3	320.2	305.4	293.5
57.5°	560.4	608.6	549.3	448.0	371.0	329.3	304.1	289.1	282.6	274.8	265.5
60°	496.0	543.7	498.5	410.5	338.9	299.3	276.9	264.3	257.8	252.3	244.4
62.5°	438.6	486.7	448.8	372.3	307.5	270.7	251.2	238.8	233.8	230.9	224.1
65°	359.6	401.1	375.8	313.0	262.4	230.0	212.3	203.6	198.9	197.8	193.5
67.5°	292.7	324.2	305.9	259.6	219.8	191.7	176.7	169.4	165.8	165.4	162.1
70°	248.7	278.3	264.3	222.3	188.0	166.1	153.1	146.6	144.4	144.0	142.2
72.5°	214.6	235.3	224.1	189.2	162.7	142.7	133.1	126.3	123.9	124.4	123.2
75°	158.8	174.4	167.9	143.6	122.3	109.3	101.4	97.1	94.9	96.0	94.5
77.5°	114.3	124.1	118.3	101.5	88.4	79.0	73.1	70.5	68.5	68.4	67.8
80°	86.2	92.1	88.8	78.7	67.9	59.9	55.2	53.4	52.3	52.0	51.7
82.5°	61.5	66.4	62.5	55.6	48.3	43.5	40.8	38.5	37.6	37.8	37.5
85°	31.0	32.9	31.4	27.1	24.2	22.1	20.5	19.5	18.8	19.1	18.4
87.5°	14.1	13.9	12.4	10.8	9.8	8.6	8.1	7.2	7.0	7.4	7.5
90°	17.2	14.4	11.7	9.3	7.3	5.1	3.0	0.9	3.0	5.1	7.3
92.5°	20.0	17.9	15.9	15.2	15.7	16.3	16.9	17.5	16.9	16.3	15.7
95°	24.6	22.2	20.0	23.1	31.7	40.2	48.8	57.4	48.8	40.2	31.7
97.5°	60.4	75.5	90.5	99.9	103.8	107.6	111.5	115.4	111.5	107.6	103.8
100°	96.2	128.8	161.5	175.7	171.5	167.4	163.2	159.0	163.2	167.4	171.5
102.5°	133.2	168.8	204.4	220.7	217.7	214.7	211.7	208.7	211.7	214.7	217.7
105°	243.6	262.5	281.3	289.5	287.3	284.9	282.7	280.3	282.7	284.9	287.3
107.5°	371.7	368.7	365.8	363.4	361.6	359.7	357.9	356.0	357.9	359.7	361.6
110°	419.7	417.4	415.1	413.1	411.4	409.7	408.1	406.4	408.1	409.7	411.4





TEST NUMBER: P331937-830

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	467.1	464.9	462.5	460.6	459.1	457.6	456.1	454.6	456.1	457.6	459.1
115°	536.2	534.3	532.5	530.9	529.7	528.4	527.2	525.9	527.2	528.4	529.7
117.5°	604.4	603.3	602.4	601.2	599.6	598.0	596.5	594.9	596.5	598.0	599.6
120°	647.9	647.2	646.7	645.4	643.5	641.6	639.7	637.8	639.7	641.6	643.5
122.5°	690.5	689.7	688.9	687.7	686.2	684.6	683.1	681.6	683.1	684.6	686.2
125°	750.9	750.2	749.3	748.0	746.4	744.7	743.0	741.3	743.0	744.7	746.4
127.5°	809.4	808.3	807.3	806.0	804.3	802.7	801.0	799.3	801.0	802.7	804.3
130°	845.1	844.2	843.4	842.2	840.5	838.8	837.1	835.5	837.1	838.8	840.5
132.5°	879.2	878.5	877.9	876.8	875.1	873.4	871.8	870.1	871.8	873.4	875.1
135°	930.7	929.8	929.0	927.9	926.7	925.4	924.2	922.9	924.2	925.4	926.7
137.5°	976.4	975.9	975.4	974.4	972.9	971.3	969.7	968.1	969.7	971.3	972.9
140°	1005.4	1004.8	1004.2	1003.2	1001.9	1000.7	999.5	998.2	999.5	1000.7	1001.9
142.5°	1033.2	1032.6	1032.0	1031.0	1029.8	1028.5	1027.3	1026.1	1027.3	1028.5	1029.8
145°	1072.6	1072.2	1071.8	1070.8	1069.4	1067.9	1066.5	1065.0	1066.5	1067.9	1069.4
147.5°	1107.0	1106.6	1106.2	1105.5	1104.6	1103.6	1102.7	1101.6	1102.7	1103.6	1104.6
150°	1128.1	1127.7	1127.3	1126.7	1126.1	1125.5	1124.9	1124.3	1124.9	1125.5	1126.1
152.5°	1146.5	1146.2	1146.0	1145.8	1145.5	1145.2	1144.9	1144.5	1144.9	1145.2	1145.5
155°	1171.8	1171.6	1171.4	1171.5	1172.0	1172.3	1172.7	1173.2	1172.7	1172.3	1172.0
157.5°	1194.7	1194.9	1195.0	1195.2	1195.2	1195.3	1195.3	1195.3	1195.3	1195.3	1195.2
160°	1207.5	1207.7	1207.9	1208.1	1208.3	1208.5	1208.7	1208.9	1208.7	1208.5	1208.3
162.5°	1218.7	1219.0	1219.2	1219.6	1220.1	1220.6	1221.2	1221.7	1221.2	1220.6	1220.1
165°	1233.8	1234.0	1234.3	1234.6	1235.3	1235.9	1236.5	1237.2	1236.5	1235.9	1235.3
167.5°	1245.4	1245.4	1245.4	1245.9	1246.7	1247.5	1248.4	1249.2	1248.4	1247.5	1246.7
170°	1252.2	1252.2	1252.2	1252.6	1253.5	1254.3	1255.1	1255.9	1255.1	1254.3	1253.5
172.5°	1256.4	1256.2	1256.0	1256.5	1257.4	1258.5	1259.5	1260.5	1259.5	1258.5	1257.4
175°	1262.2	1261.9	1261.7	1262.2	1263.2	1264.2	1265.3	1266.3	1265.3	1264.2	1263.2
177.5°	1264.5	1264.3	1264.1	1264.5	1265.3	1266.1	1267.0	1267.8	1267.0	1266.1	1265.3
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3



TEST NUMBER: P331937-830

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	732.6	730.7	727.7	723.4	719.9	714.4	714.4	715.3	715.3	715.0	714.4
5°	710.4	705.0	698.5	691.0	683.0	675.0	673.6	670.7	668.5	667.1	665.3
7.5°	686.9	677.4	667.9	657.3	647.6	639.6	634.0	629.4	626.4	623.3	620.9
10°	671.1	659.1	648.0	636.8	624.5	614.7	608.6	604.3	601.1	598.1	596.7
12.5°	652.3	638.7	626.3	615.7	602.3	592.2	586.4	584.4	580.5	574.5	571.3
15°	624.9	612.3	597.5	581.2	574.7	562.4	555.5	552.3	550.2	545.4	544.0
17.5°	601.4	584.8	568.3	556.1	544.0	534.1	530.3	526.2	523.4	519.5	518.4
20°	582.7	567.9	552.7	539.7	527.1	516.2	512.9	510.1	507.2	505.4	504.0
22.5°	563.5	548.7	536.2	524.1	510.6	503.5	499.9	496.8	494.7	493.5	492.1
25°	536.8	523.8	509.7	498.9	488.0	483.3	481.2	479.4	478.0	476.2	475.8
27.5°	512.8	498.7	487.3	477.1	469.4	465.4	463.4	462.5	462.8	463.4	463.8
30°	494.9	481.9	472.5	463.8	456.7	453.1	452.7	452.7	454.1	454.5	455.2
32.5°	478.4	467.8	458.4	450.0	444.5	442.1	443.5	443.5	444.6	445.5	446.9
35°	454.5	445.1	437.9	430.6	425.9	427.1	427.7	428.5	430.3	432.4	433.9
37.5°	431.6	423.5	415.9	410.3	408.1	410.1	411.8	413.3	415.5	417.1	418.5
40°	415.1	409.0	401.8	396.7	397.5	398.5	400.0	401.8	403.6	404.6	406.1
42.5°	399.8	393.4	388.0	383.7	384.7	386.2	387.0	388.0	390.0	392.0	392.9
45°	376.5	371.5	366.4	363.9	364.6	365.3	366.1	367.1	368.9	370.4	370.7
47.5°	350.3	346.8	343.4	340.9	342.0	341.8	342.7	345.1	345.6	346.5	348.5
50°	333.6	330.3	326.3	325.6	325.6	325.6	325.9	328.9	328.9	330.3	331.8
52.5°	315.1	313.0	310.5	309.2	308.6	308.6	310.1	311.5	312.1	314.1	315.6
55°	287.7	285.5	283.4	282.3	281.5	282.3	285.2	285.9	287.7	288.8	289.8
57.5°	259.2	257.5	255.8	255.2	255.1	256.0	257.6	259.8	260.2	263.5	265.1
60°	240.4	237.9	236.5	236.5	235.7	238.9	238.3	241.9	242.6	244.8	247.3
62.5°	221.0	217.6	217.1	217.1	218.1	219.0	220.1	221.7	223.6	226.3	228.2
65°	189.9	188.0	190.6	190.2	189.5	191.7	191.7	193.5	195.7	198.2	202.2
67.5°	160.3	159.4	159.7	159.7	160.7	161.9	163.0	164.6	167.1	169.8	172.4
70°	140.4	141.5	139.7	141.2	142.2	142.6	143.3	145.4	148.4	150.1	153.1
72.5°	121.1	121.0	121.2	121.8	122.9	123.6	124.2	126.7	129.9	131.4	133.7
75°	93.1	92.7	93.9	93.9	95.7	96.4	97.1	98.2	101.0	103.2	105.1
77.5°	68.1	68.4	68.2	69.5	69.0	69.1	71.4	72.4	72.7	77.0	77.9
80°	51.3	52.0	52.3	52.7	53.1	52.3	54.9	56.0	56.0	58.4	60.3
82.5°	36.9	37.2	38.2	38.5	38.6	39.3	39.6	40.3	41.2	42.3	44.7
85°	18.4	19.5	19.9	19.5	19.9	19.1	20.2	20.5	20.9	20.9	20.9
87.5°	7.6	8.4	8.7	9.5	9.7	10.6	10.7	10.4	10.5	11.5	10.5
90°	9.3	11.7	14.4	17.2	19.9	22.6	23.4	24.2	25.1	25.9	26.6
92.5°	15.2	15.9	17.9	20.0	22.1	24.1	25.4	26.8	28.1	29.4	30.3
95°	23.1	20.0	22.2	24.6	26.9	29.1	30.6	32.0	33.6	35.1	35.7
97.5°	99.9	90.5	75.5	60.4	45.3	30.3	32.0	33.6	35.3	36.9	37.9
100°	175.7	161.5	128.8	96.2	63.6	31.0	32.7	34.4	36.1	37.7	38.6
102.5°	220.7	204.4	168.8	133.2	97.6	61.9	56.7	51.6	46.4	41.2	38.7
105°	289.5	281.3	262.5	243.6	224.9	206.0	169.0	132.1	95.0	58.1	39.7
107.5°	363.4	365.8	368.7	371.7	374.7	377.7	350.5	323.4	296.2	269.1	241.6
110°	413.1	415.1	417.4	419.7	422.0	424.3	417.4	410.5	403.6	396.7	378.3



TEST NUMBER: P331937-830

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	460.6	462.5	464.9	467.1	469.4	471.7	471.8	471.9	472.1	472.2	469.1
115°	530.9	532.5	534.3	536.2	538.1	540.0	542.2	544.2	546.3	548.4	549.9
117.5°	601.2	602.4	603.3	604.4	605.3	606.2	607.9	609.6	611.2	612.9	613.9
120°	645.4	646.7	647.2	647.9	648.6	649.1	650.8	652.5	654.1	655.8	656.7
122.5°	687.7	688.9	689.7	690.5	691.3	692.0	693.2	694.4	695.6	696.7	697.4
125°	748.0	749.3	750.2	750.9	751.8	752.6	753.1	753.5	753.8	754.3	754.7
127.5°	806.0	807.3	808.3	809.4	810.3	811.3	812.0	812.7	813.3	814.0	814.2
130°	842.2	843.4	844.2	845.1	845.8	846.7	847.5	848.4	849.2	850.1	850.3
132.5°	876.8	877.9	878.5	879.2	880.0	880.6	881.5	882.2	883.1	883.9	884.0
135°	927.9	929.0	929.8	930.7	931.5	932.4	932.9	933.6	934.2	934.8	934.8
137.5°	974.4	975.4	975.9	976.4	976.9	977.3	978.3	979.3	980.3	981.3	981.6
140°	1003.2	1004.2	1004.8	1005.4	1006.1	1006.6	1007.5	1008.3	1009.2	1010.0	1010.2
142.5°	1031.0	1032.0	1032.6	1033.2	1033.9	1034.5	1035.2	1035.9	1036.5	1037.2	1037.2
145°	1070.8	1071.8	1072.2	1072.6	1073.0	1073.5	1073.8	1074.3	1074.7	1075.2	1075.3
147.5°	1105.5	1106.2	1106.6	1107.0	1107.5	1107.9	1108.3	1108.7	1109.1	1109.6	1109.3
150°	1126.7	1127.3	1127.7	1128.1	1128.5	1129.0	1129.4	1129.8	1130.2	1130.7	1130.5
152.5°	1145.8	1146.0	1146.2	1146.5	1146.8	1147.0	1147.7	1148.5	1149.2	1150.0	1149.9
155°	1171.5	1171.4	1171.6	1171.8	1172.1	1172.2	1173.3	1174.3	1175.4	1176.4	1176.3
157.5°	1195.2	1195.0	1194.9	1194.7	1194.5	1194.2	1195.5	1196.7	1198.0	1199.3	1199.1
160°	1208.1	1207.9	1207.7	1207.5	1207.2	1207.0	1208.3	1209.6	1210.8	1212.0	1211.9
162.5°	1219.6	1219.2	1219.0	1218.7	1218.5	1218.3	1219.7	1221.2	1222.6	1224.0	1224.1
165°	1234.6	1234.3	1234.0	1233.8	1233.6	1233.4	1235.0	1236.7	1238.4	1240.1	1240.2
167.5°	1245.9	1245.4	1245.4	1245.4	1245.4	1245.4	1247.1	1248.8	1250.5	1252.1	1252.1
170°	1252.6	1252.2	1252.2	1252.2	1252.2	1252.2	1253.9	1255.6	1257.3	1258.9	1258.9
172.5°	1256.5	1256.0	1256.2	1256.4	1256.5	1256.7	1258.4	1260.1	1261.7	1263.4	1263.3
175°	1262.2	1261.7	1261.9	1262.2	1262.3	1262.5	1264.0	1265.5	1267.0	1268.4	1268.3
177.5°	1264.5	1264.1	1264.3	1264.5	1264.6	1264.8	1266.1	1267.4	1268.9	1270.2	1270.0
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3



TEST NUMBER: P331937-830

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	712.5	712.2	714.2	712.8	714.2	712.2	712.5	714.4	715.0	715.3	715.3
5°	663.2	664.2	660.6	660.6	660.6	664.2	663.2	665.3	667.1	668.5	670.7
7.5°	619.3	617.6	617.8	615.9	617.8	617.6	619.3	620.9	623.3	626.4	629.4
10°	592.4	590.2	589.5	589.8	589.5	590.2	592.4	596.7	598.1	601.1	604.3
12.5°	570.1	569.7	565.0	565.1	565.0	569.7	570.1	571.3	574.5	580.5	584.4
15°	544.0	537.2	536.4	538.6	536.4	537.2	544.0	544.0	545.4	550.2	552.3
17.5°	517.8	514.2	514.4	513.3	514.4	514.2	517.8	518.4	519.5	523.4	526.2
20°	504.0	501.8	501.4	498.9	501.4	501.8	504.0	504.0	505.4	507.2	510.1
22.5°	491.3	490.5	490.7	488.0	490.7	490.5	491.3	492.1	493.5	494.7	496.8
25°	475.4	477.2	475.8	475.8	475.8	477.2	475.4	475.8	476.2	478.0	479.4
27.5°	464.8	464.7	463.9	463.9	463.9	464.7	464.8	463.8	463.4	462.8	462.5
30°	456.7	456.3	457.0	457.0	457.0	456.3	456.7	455.2	454.5	454.1	452.7
32.5°	448.6	449.0	449.2	449.5	449.2	449.0	448.6	446.9	445.5	444.6	443.5
35°	436.1	436.4	437.5	436.8	437.5	436.4	436.1	433.9	432.4	430.3	428.5
37.5°	419.1	420.8	420.5	421.0	420.5	420.8	419.1	418.5	417.1	415.5	413.3
40°	406.5	407.6	407.2	407.2	407.2	407.6	406.5	406.1	404.6	403.6	401.8
42.5°	393.5	394.3	393.3	392.8	393.3	394.3	393.5	392.9	392.0	390.0	388.0
45°	372.2	371.5	372.6	371.1	372.6	371.5	372.2	370.7	370.4	368.9	367.1
47.5°	348.4	349.1	349.4	350.4	349.4	349.1	348.4	348.5	346.5	345.6	345.1
50°	332.4	334.6	334.6	334.3	334.6	334.6	332.4	331.8	330.3	328.9	328.9
52.5°	316.9	317.9	319.3	319.2	319.3	317.9	316.9	315.6	314.1	312.1	311.5
55°	292.8	293.5	294.2	294.5	294.2	293.5	292.8	289.8	288.8	287.7	285.9
57.5°	267.8	267.5	269.2	269.8	269.2	267.5	267.8	265.1	263.5	260.2	259.8
60°	250.2	250.2	253.1	254.1	253.1	250.2	250.2	247.3	244.8	242.6	241.9
62.5°	231.4	232.5	235.4	233.9	235.4	232.5	231.4	228.2	226.3	223.6	221.7
65°	204.0	206.9	206.5	207.9	206.5	206.9	204.0	202.2	198.2	195.7	193.5
67.5°	175.3	177.1	179.7	179.9	179.7	177.1	175.3	172.4	169.8	167.1	164.6
70°	156.0	157.8	159.2	160.2	159.2	157.8	156.0	153.1	150.1	148.4	145.4
72.5°	137.1	138.1	141.6	140.1	141.6	138.1	137.1	133.7	131.4	129.9	126.7
75°	107.5	110.1	112.3	111.2	112.3	110.1	107.5	105.1	103.2	101.0	98.2
77.5°	79.6	82.1	83.1	82.2	83.1	82.1	79.6	77.9	77.0	72.7	72.4
80°	62.8	62.5	64.7	64.3	64.7	62.5	62.8	60.3	58.4	56.0	56.0
82.5°	46.1	45.7	46.8	46.9	46.8	45.7	46.1	44.7	42.3	41.2	40.3
85°	22.3	23.5	22.1	21.7	22.1	23.5	22.3	20.9	20.9	20.9	20.5
87.5°	10.6	10.7	10.5	10.3	10.5	10.7	10.6	10.5	11.5	10.5	10.4
90°	27.0	27.4	27.8	28.2	27.8	27.4	27.0	26.6	25.9	25.1	24.2
92.5°	30.4	30.7	31.0	31.2	31.0	30.7	30.4	30.3	29.4	28.1	26.8
95°	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.1	33.6	32.0
97.5°	38.2	38.4	38.5	38.7	38.5	38.4	38.2	37.9	36.9	35.3	33.6
100°	38.9	39.1	39.3	39.5	39.3	39.1	38.9	38.6	37.7	36.1	34.4
102.5°	39.1	39.5	39.9	40.2	39.9	39.5	39.1	38.7	41.2	46.4	51.6
105°	40.2	40.5	41.0	41.4	41.0	40.5	40.2	39.7	58.1	95.0	132.1
107.5°	213.7	185.8	157.9	130.0	157.9	185.8	213.7	241.6	269.1	296.2	323.4
110°	348.4	318.5	288.6	258.7	288.6	318.5	348.4	378.3	396.7	403.6	410.5



TEST NUMBER: P331937-830

CATALOG NUMBER: S123DIP-S560D1025U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	462.8	456.5	450.2	443.8	450.2	456.5	462.8	469.1	472.2	472.1	471.9
115°	550.6	551.5	552.3	553.2	552.3	551.5	550.6	549.9	548.4	546.3	544.2
117.5°	614.1	614.2	614.3	614.5	614.3	614.2	614.1	613.9	612.9	611.2	609.6
120°	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	655.8	654.1	652.5
122.5°	697.6	697.8	697.9	698.0	697.9	697.8	697.6	697.4	696.7	695.6	694.4
125°	755.2	755.5	756.0	756.4	756.0	755.5	755.2	754.7	754.3	753.8	753.5
127.5°	813.7	813.3	812.8	812.5	812.8	813.3	813.7	814.2	814.0	813.3	812.7
130°	849.9	849.4	849.0	848.6	849.0	849.4	849.9	850.3	850.1	849.2	848.4
132.5°	883.4	882.9	882.3	881.7	882.3	882.9	883.4	884.0	883.9	883.1	882.2
135°	934.2	933.6	932.9	932.4	932.9	933.6	934.2	934.8	934.8	934.2	933.6
137.5°	981.2	980.8	980.3	980.0	980.3	980.8	981.2	981.6	981.3	980.3	979.3
140°	1009.7	1009.4	1009.0	1008.5	1009.0	1009.4	1009.7	1010.2	1010.0	1009.2	1008.3
142.5°	1036.6	1036.0	1035.5	1034.9	1035.5	1036.0	1036.6	1037.2	1037.2	1036.5	1035.9
145°	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.2	1074.7	1074.3
147.5°	1108.3	1107.4	1106.4	1105.4	1106.4	1107.4	1108.3	1109.3	1109.6	1109.1	1108.7
150°	1129.9	1129.3	1128.6	1128.0	1128.6	1129.3	1129.9	1130.5	1130.7	1130.2	1129.8
152.5°	1149.0	1148.0	1147.1	1146.0	1147.1	1148.0	1149.0	1149.9	1150.0	1149.2	1148.5
155°	1175.1	1173.8	1172.5	1171.3	1172.5	1173.8	1175.1	1176.3	1176.4	1175.4	1174.3
157.5°	1197.4	1195.8	1194.2	1192.6	1194.2	1195.8	1197.4	1199.1	1199.3	1198.0	1196.7
160°	1210.5	1209.0	1207.6	1206.1	1207.6	1209.0	1210.5	1211.9	1212.0	1210.8	1209.6
162.5°	1222.8	1221.4	1220.2	1218.9	1220.2	1221.4	1222.8	1224.1	1224.0	1222.6	1221.2
165°	1238.7	1237.3	1235.8	1234.4	1235.8	1237.3	1238.7	1240.2	1240.1	1238.4	1236.7
167.5°	1250.5	1248.8	1247.1	1245.4	1247.1	1248.8	1250.5	1252.1	1252.1	1250.5	1248.8
170°	1257.3	1255.6	1253.9	1252.2	1253.9	1255.6	1257.3	1258.9	1258.9	1257.3	1255.6
172.5°	1261.5	1259.6	1257.8	1255.9	1257.8	1259.6	1261.5	1263.3	1263.4	1261.7	1260.1
175°	1266.6	1265.0	1263.3	1261.6	1263.3	1265.0	1266.6	1268.3	1268.4	1267.0	1265.5
177.5°	1268.3	1266.7	1265.0	1263.3	1265.0	1266.7	1268.3	1270.0	1270.2	1268.9	1267.4
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3



TEST NUMBER: P331937-830

CATALOG NUMBER: S123DIP-S560D1025U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	714.4	714.4	719.9	723.4	727.7	730.7	732.6	734.7	738.1	742.8	748.0
5°	673.6	675.0	683.0	691.0	698.5	705.0	710.4	716.9	724.9	734.6	745.5
7.5°	634.0	639.6	647.6	657.3	667.9	677.4	686.9	697.7	708.8	723.2	738.4
10°	608.6	614.7	624.5	636.8	648.0	659.1	671.1	682.6	696.7	713.7	733.2
12.5°	586.4	592.2	602.3	615.7	626.3	638.7	652.3	667.3	683.2	703.6	725.7
15°	555.5	562.4	574.7	581.2	597.5	612.3	624.9	646.5	666.8	687.7	713.3
17.5°	530.3	534.1	544.0	556.1	568.3	584.8	601.4	619.4	639.6	665.2	697.3
20°	512.9	516.2	527.1	539.7	552.7	567.9	582.7	600.7	623.4	650.5	685.1
22.5°	499.9	503.5	510.6	524.1	536.2	548.7	563.5	585.1	609.3	635.7	673.4
25°	481.2	483.3	488.0	498.9	509.7	523.8	536.8	557.0	581.9	612.9	650.5
27.5°	463.4	465.4	469.4	477.1	487.3	498.7	512.8	530.0	555.3	589.0	628.9
30°	452.7	453.1	456.7	463.8	472.5	481.9	494.9	514.4	538.2	572.5	614.4
32.5°	443.5	442.1	444.5	450.0	458.4	467.8	478.4	497.7	520.7	554.3	597.4
35°	427.7	427.1	425.9	430.6	437.9	445.1	454.5	468.9	494.9	526.3	571.5
37.5°	411.8	410.1	408.1	410.3	415.9	423.5	431.6	444.4	466.8	501.4	544.6
40°	400.0	398.5	397.5	396.7	401.8	409.0	415.1	427.4	448.4	481.2	523.8
42.5°	387.0	386.2	384.7	383.7	388.0	393.4	399.8	410.7	431.6	462.4	502.8
45°	366.1	365.3	364.6	363.9	366.4	371.5	376.5	384.5	402.5	432.4	468.9
47.5°	342.7	341.8	342.0	340.9	343.4	346.8	350.3	358.8	376.2	400.3	427.0
50°	325.9	325.6	325.6	325.6	326.3	330.3	333.6	340.1	355.9	380.1	399.3
52.5°	310.1	308.6	308.6	309.2	310.5	313.0	315.1	322.2	336.0	355.9	373.2
55°	285.2	282.3	281.5	282.3	283.4	285.5	287.7	293.5	305.4	320.2	330.3
57.5°	257.6	256.0	255.1	255.2	255.8	257.5	259.2	265.5	274.8	282.6	289.1
60°	238.3	238.9	235.7	236.5	236.5	237.9	240.4	244.4	252.3	257.8	264.3
62.5°	220.1	219.0	218.1	217.1	217.1	217.6	221.0	224.1	230.9	233.8	238.8
65°	191.7	191.7	189.5	190.2	190.6	188.0	189.9	193.5	197.8	198.9	203.6
67.5°	163.0	161.9	160.7	159.7	159.7	159.4	160.3	162.1	165.4	165.8	169.4
70°	143.3	142.6	142.2	141.2	139.7	141.5	140.4	142.2	144.0	144.4	146.6
72.5°	124.2	123.6	122.9	121.8	121.2	121.0	121.1	123.2	124.4	123.9	126.3
75°	97.1	96.4	95.7	93.9	93.9	92.7	93.1	94.5	96.0	94.9	97.1
77.5°	71.4	69.1	69.0	69.5	68.2	68.4	68.1	67.8	68.4	68.5	70.5
80°	54.9	52.3	53.1	52.7	52.3	52.0	51.3	51.7	52.0	52.3	53.4
82.5°	39.6	39.3	38.6	38.5	38.2	37.2	36.9	37.5	37.8	37.6	38.5
85°	20.2	19.1	19.9	19.5	19.9	19.5	18.4	18.4	19.1	18.8	19.5
87.5°	10.7	10.6	9.7	9.5	8.7	8.4	7.6	7.5	7.4	7.0	7.2
90°	23.4	22.6	19.9	17.2	14.4	11.7	9.3	7.3	5.1	3.0	0.9
92.5°	25.4	24.1	22.1	20.0	17.9	15.9	15.2	15.7	16.3	16.9	17.5
95°	30.6	29.1	26.9	24.6	22.2	20.0	23.1	31.7	40.2	48.8	57.4
97.5°	32.0	30.3	45.3	60.4	75.5	90.5	99.9	103.8	107.6	111.5	115.4
100°	32.7	31.0	63.6	96.2	128.8	161.5	175.7	171.5	167.4	163.2	159.0
102.5°	56.7	61.9	97.6	133.2	168.8	204.4	220.7	217.7	214.7	211.7	208.7
105°	169.0	206.0	224.9	243.6	262.5	281.3	289.5	287.3	284.9	282.7	280.3
107.5°	350.5	377.7	374.7	371.7	368.7	365.8	363.4	361.6	359.7	357.9	356.0
110°	417.4	424.3	422.0	419.7	417.4	415.1	413.1	411.4	409.7	408.1	406.4



TEST NUMBER: P331937-830

CATALOG NUMBER: S123DIP-S560D1025U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	471.8	471.7	469.4	467.1	464.9	462.5	460.6	459.1	457.6	456.1	454.6
115°	542.2	540.0	538.1	536.2	534.3	532.5	530.9	529.7	528.4	527.2	525.9
117.5°	607.9	606.2	605.3	604.4	603.3	602.4	601.2	599.6	598.0	596.5	594.9
120°	650.8	649.1	648.6	647.9	647.2	646.7	645.4	643.5	641.6	639.7	637.8
122.5°	693.2	692.0	691.3	690.5	689.7	688.9	687.7	686.2	684.6	683.1	681.6
125°	753.1	752.6	751.8	750.9	750.2	749.3	748.0	746.4	744.7	743.0	741.3
127.5°	812.0	811.3	810.3	809.4	808.3	807.3	806.0	804.3	802.7	801.0	799.3
130°	847.5	846.7	845.8	845.1	844.2	843.4	842.2	840.5	838.8	837.1	835.5
132.5°	881.5	880.6	880.0	879.2	878.5	877.9	876.8	875.1	873.4	871.8	870.1
135°	932.9	932.4	931.5	930.7	929.8	929.0	927.9	926.7	925.4	924.2	922.9
137.5°	978.3	977.3	976.9	976.4	975.9	975.4	974.4	972.9	971.3	969.7	968.1
140°	1007.5	1006.6	1006.1	1005.4	1004.8	1004.2	1003.2	1001.9	1000.7	999.5	998.2
142.5°	1035.2	1034.5	1033.9	1033.2	1032.6	1032.0	1031.0	1029.8	1028.5	1027.3	1026.1
145°	1073.8	1073.5	1073.0	1072.6	1072.2	1071.8	1070.8	1069.4	1067.9	1066.5	1065.0
147.5°	1108.3	1107.9	1107.5	1107.0	1106.6	1106.2	1105.5	1104.6	1103.6	1102.7	1101.6
150°	1129.4	1129.0	1128.5	1128.1	1127.7	1127.3	1126.7	1126.1	1125.5	1124.9	1124.3
152.5°	1147.7	1147.0	1146.8	1146.5	1146.2	1146.0	1145.8	1145.5	1145.2	1144.9	1144.5
155°	1173.3	1172.2	1172.1	1171.8	1171.6	1171.4	1171.5	1172.0	1172.3	1172.7	1173.2
157.5°	1195.5	1194.2	1194.5	1194.7	1194.9	1195.0	1195.2	1195.2	1195.3	1195.3	1195.3
160°	1208.3	1207.0	1207.2	1207.5	1207.7	1207.9	1208.1	1208.3	1208.5	1208.7	1208.9
162.5°	1219.7	1218.3	1218.5	1218.7	1219.0	1219.2	1219.6	1220.1	1220.6	1221.2	1221.7
165°	1235.0	1233.4	1233.6	1233.8	1234.0	1234.3	1234.6	1235.3	1235.9	1236.5	1237.2
167.5°	1247.1	1245.4	1245.4	1245.4	1245.4	1245.4	1245.9	1246.7	1247.5	1248.4	1249.2
170°	1253.9	1252.2	1252.2	1252.2	1252.2	1252.2	1252.6	1253.5	1254.3	1255.1	1255.9
172.5°	1258.4	1256.7	1256.5	1256.4	1256.2	1256.0	1256.5	1257.4	1258.5	1259.5	1260.5
175°	1264.0	1262.5	1262.3	1262.2	1261.9	1261.7	1262.2	1263.2	1264.2	1265.3	1266.3
177.5°	1266.1	1264.8	1264.6	1264.5	1264.3	1264.1	1264.5	1265.3	1266.1	1267.0	1267.8
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3



TEST NUMBER: P331937-830

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	749.7	751.1	756.0	759.5	763.6	765.9	768.2	770.0	772.2	772.8	781.2
5°	753.0	760.3	772.9	782.2	793.8	806.4	815.1	819.1	829.5	838.2	855.5
7.5°	752.1	767.4	786.6	806.3	827.6	847.2	864.2	884.4	898.8	920.4	941.7
10°	751.2	771.8	796.4	821.6	851.2	878.6	903.2	930.7	953.4	983.4	1009.0
12.5°	748.7	773.5	807.6	837.4	873.5	911.3	947.6	982.9	1003.1	1052.9	1076.6
15°	742.2	771.8	814.4	859.9	909.4	954.1	1000.3	1037.1	1096.6	1140.4	1168.2
17.5°	729.9	771.4	821.9	876.8	936.9	995.9	1048.2	1104.1	1167.3	1220.1	1276.5
20°	724.2	769.6	826.0	886.6	949.0	1015.8	1075.3	1142.6	1211.4	1263.5	1335.7
22.5°	713.5	765.0	825.7	893.2	960.0	1029.1	1098.8	1166.5	1246.1	1317.8	1386.5
25°	696.0	753.8	816.5	892.0	970.3	1039.6	1123.0	1213.0	1296.0	1388.0	1456.6
27.5°	677.7	739.3	802.3	872.4	956.7	1039.0	1143.9	1245.4	1346.9	1426.4	1477.2
30°	663.5	723.4	788.4	859.1	942.5	1040.4	1157.7	1268.5	1367.4	1435.7	1464.1
32.5°	648.2	709.0	766.5	840.7	929.5	1039.5	1166.4	1282.0	1368.6	1414.0	1408.4
35°	624.2	675.0	731.0	802.5	907.2	1033.1	1171.4	1283.3	1336.3	1326.6	1253.0
37.5°	589.5	632.4	687.4	765.6	881.2	1019.8	1161.3	1245.3	1241.8	1162.4	1055.7
40°	567.9	604.3	657.3	739.7	860.9	1011.2	1145.4	1200.0	1153.8	1042.9	915.1
42.5°	539.5	573.1	626.1	710.8	838.8	993.5	1115.1	1130.9	1040.5	912.9	795.9
45°	495.7	525.3	580.1	667.5	805.4	955.2	1041.1	1002.5	880.8	749.0	659.9
47.5°	448.5	479.3	532.1	621.8	757.1	897.5	938.4	856.3	731.3	624.5	542.6
50°	418.8	448.4	499.9	590.6	724.5	850.2	867.1	761.0	646.2	552.3	485.1
52.5°	388.7	416.6	467.3	558.3	686.4	795.2	784.8	676.7	571.1	491.1	438.4
55°	344.0	370.4	418.8	504.0	620.6	706.8	668.9	565.7	478.3	416.2	376.2
57.5°	304.1	329.3	371.0	448.0	549.3	608.6	560.4	473.4	404.0	356.2	326.3
60°	276.9	299.3	338.9	410.5	498.5	543.7	496.0	419.1	360.6	322.3	295.7
62.5°	251.2	270.7	307.5	372.3	448.8	486.7	438.6	373.4	323.7	289.7	267.0
65°	212.3	230.0	262.4	313.0	375.8	401.1	359.6	306.8	268.2	243.0	227.8
67.5°	176.7	191.7	219.8	259.6	305.9	324.2	292.7	251.8	222.7	202.5	190.4
70°	153.1	166.1	188.0	222.3	264.3	278.3	248.7	215.2	193.9	177.6	166.5
72.5°	133.1	142.7	162.7	189.2	224.1	235.3	214.6	185.1	165.2	153.1	144.2
75°	101.4	109.3	122.3	143.6	167.9	174.4	158.8	140.4	127.1	118.4	111.5
77.5°	73.1	79.0	88.4	101.5	118.3	124.1	114.3	102.0	92.3	86.4	82.6
80°	55.2	59.9	67.9	78.7	88.8	92.1	86.2	76.9	70.0	66.8	63.5
82.5°	40.8	43.5	48.3	55.6	62.5	66.4	61.5	55.8	52.1	49.2	48.0
85°	20.5	22.1	24.2	27.1	31.4	32.9	31.0	29.6	27.4	25.6	25.6
87.5°	8.1	8.6	9.8	10.8	12.4	13.9	14.1	14.0	14.3	14.2	14.1
90°	3.0	5.1	7.3	9.3	11.7	14.4	17.2	19.9	22.6	23.4	24.2
92.5°	16.9	16.3	15.7	15.2	15.9	17.9	20.0	22.1	24.1	25.4	26.8
95°	48.8	40.2	31.7	23.1	20.0	22.2	24.6	26.9	29.1	30.6	32.0
97.5°	111.5	107.6	103.8	99.9	90.5	75.5	60.4	45.3	30.3	32.0	33.6
100°	163.2	167.4	171.5	175.7	161.5	128.8	96.2	63.6	31.0	32.7	34.4
102.5°	211.7	214.7	217.7	220.7	204.4	168.8	133.2	97.6	61.9	56.7	51.6
105°	282.7	284.9	287.3	289.5	281.3	262.5	243.6	224.9	206.0	169.0	132.1
107.5°	357.9	359.7	361.6	363.4	365.8	368.7	371.7	374.7	377.7	350.5	323.4
110°	408.1	409.7	411.4	413.1	415.1	417.4	419.7	422.0	424.3	417.4	410.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	456.1	457.6	459.1	460.6	462.5	464.9	467.1	469.4	471.7	471.8	471.9
115°	527.2	528.4	529.7	530.9	532.5	534.3	536.2	538.1	540.0	542.2	544.2
117.5°	596.5	598.0	599.6	601.2	602.4	603.3	604.4	605.3	606.2	607.9	609.6
120°	639.7	641.6	643.5	645.4	646.7	647.2	647.9	648.6	649.1	650.8	652.5
122.5°	683.1	684.6	686.2	687.7	688.9	689.7	690.5	691.3	692.0	693.2	694.4
125°	743.0	744.7	746.4	748.0	749.3	750.2	750.9	751.8	752.6	753.1	753.5
127.5°	801.0	802.7	804.3	806.0	807.3	808.3	809.4	810.3	811.3	812.0	812.7
130°	837.1	838.8	840.5	842.2	843.4	844.2	845.1	845.8	846.7	847.5	848.4
132.5°	871.8	873.4	875.1	876.8	877.9	878.5	879.2	880.0	880.6	881.5	882.2
135°	924.2	925.4	926.7	927.9	929.0	929.8	930.7	931.5	932.4	932.9	933.6
137.5°	969.7	971.3	972.9	974.4	975.4	975.9	976.4	976.9	977.3	978.3	979.3
140°	999.5	1000.7	1001.9	1003.2	1004.2	1004.8	1005.4	1006.1	1006.6	1007.5	1008.3
142.5°	1027.3	1028.5	1029.8	1031.0	1032.0	1032.6	1033.2	1033.9	1034.5	1035.2	1035.9
145°	1066.5	1067.9	1069.4	1070.8	1071.8	1072.2	1072.6	1073.0	1073.5	1073.8	1074.3
147.5°	1102.7	1103.6	1104.6	1105.5	1106.2	1106.6	1107.0	1107.5	1107.9	1108.3	1108.7
150°	1124.9	1125.5	1126.1	1126.7	1127.3	1127.7	1128.1	1128.5	1129.0	1129.4	1129.8
152.5°	1144.9	1145.2	1145.5	1145.8	1146.0	1146.2	1146.5	1146.8	1147.0	1147.7	1148.5
155°	1172.7	1172.3	1172.0	1171.5	1171.4	1171.6	1171.8	1172.1	1172.2	1173.3	1174.3
157.5°	1195.3	1195.3	1195.2	1195.2	1195.0	1194.9	1194.7	1194.5	1194.2	1195.5	1196.7
160°	1208.7	1208.5	1208.3	1208.1	1207.9	1207.7	1207.5	1207.2	1207.0	1208.3	1209.6
162.5°	1221.2	1220.6	1220.1	1219.6	1219.2	1219.0	1218.7	1218.5	1218.3	1219.7	1221.2
165°	1236.5	1235.9	1235.3	1234.6	1234.3	1234.0	1233.8	1233.6	1233.4	1235.0	1236.7
167.5°	1248.4	1247.5	1246.7	1245.9	1245.4	1245.4	1245.4	1245.4	1245.4	1247.1	1248.8
170°	1255.1	1254.3	1253.5	1252.6	1252.2	1252.2	1252.2	1252.2	1252.2	1253.9	1255.6
172.5°	1259.5	1258.5	1257.4	1256.5	1256.0	1256.2	1256.4	1256.5	1256.7	1258.4	1260.1
175°	1265.3	1264.2	1263.2	1262.2	1261.7	1261.9	1262.2	1262.3	1262.5	1264.0	1265.5
177.5°	1267.0	1266.1	1265.3	1264.5	1264.1	1264.3	1264.5	1264.6	1264.8	1266.1	1267.4
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	784.1	784.4	787.5	789.9	788.7	790.1	790.7
5°	856.6	869.6	876.5	881.6	881.9	882.2	885.1
7.5°	959.5	973.5	983.6	999.1	1003.7	1009.0	1007.5
10°	1034.6	1055.2	1072.9	1082.2	1092.3	1107.1	1095.2
12.5°	1104.8	1141.2	1168.2	1182.7	1192.3	1195.2	1189.4
15°	1220.5	1268.2	1293.8	1293.1	1325.6	1339.6	1317.6
17.5°	1326.6	1370.6	1405.8	1423.9	1451.0	1457.0	1454.2
20°	1391.6	1439.6	1467.1	1498.1	1512.2	1524.8	1527.0
22.5°	1447.7	1490.7	1520.2	1546.1	1557.8	1563.8	1567.4
25°	1505.3	1539.3	1557.0	1565.9	1569.2	1568.5	1563.8
27.5°	1501.4	1503.9	1484.5	1465.4	1448.2	1428.9	1422.3
30°	1462.4	1432.0	1377.9	1347.2	1302.1	1266.3	1280.8
32.5°	1359.8	1299.5	1238.7	1171.6	1116.1	1100.3	1084.4
35°	1160.6	1054.4	992.4	920.2	891.3	862.4	842.5
37.5°	939.0	856.9	783.2	735.9	707.0	688.8	678.9
40°	811.9	737.8	677.2	638.9	616.9	596.3	593.4
42.5°	710.5	641.7	596.1	565.6	544.4	535.7	529.3
45°	581.9	533.9	503.2	481.5	467.5	462.0	454.9
47.5°	492.6	458.6	435.5	420.8	410.2	406.1	405.6
50°	442.6	414.4	397.5	385.9	377.6	376.2	370.4
52.5°	405.0	380.6	367.4	357.3	351.3	347.2	345.5
55°	351.6	335.4	323.5	317.6	313.0	309.0	309.0
57.5°	307.6	294.1	286.2	281.3	279.8	277.0	275.2
60°	280.5	268.9	262.8	258.4	255.6	255.9	252.7
62.5°	253.9	246.4	240.5	236.2	232.8	232.8	233.1
65°	216.2	210.5	206.1	204.7	202.6	200.0	200.7
67.5°	183.2	177.9	174.5	172.0	171.3	169.8	172.0
70°	159.6	155.6	153.1	150.9	150.1	150.5	152.3
72.5°	137.9	135.1	133.5	132.4	130.8	130.9	132.1
75°	108.3	106.1	104.7	103.6	103.2	103.2	103.2
77.5°	79.6	79.1	78.4	76.8	76.9	77.3	77.4
80°	62.8	61.7	61.4	60.6	59.6	58.8	60.6
82.5°	46.9	45.8	45.5	45.3	43.6	43.5	45.1
85°	25.3	24.2	24.5	24.2	24.2	23.8	23.8
87.5°	13.9	13.9	13.7	14.0	13.9	13.7	14.3
90°	25.1	25.9	26.6	27.0	27.4	27.8	28.2
92.5°	28.1	29.4	30.3	30.4	30.7	31.0	31.2
95°	33.6	35.1	35.7	35.7	35.7	35.7	35.7
97.5°	35.3	36.9	37.9	38.2	38.4	38.5	38.7
100°	36.1	37.7	38.6	38.9	39.1	39.3	39.5
102.5°	46.4	41.2	38.7	39.1	39.5	39.9	40.2
105°	95.0	58.1	39.7	40.2	40.5	41.0	41.4
107.5°	296.2	269.1	241.6	213.7	185.8	157.9	130.0
110°	403.6	396.7	378.3	348.4	318.5	288.6	258.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	472.1	472.2	469.1	462.8	456.5	450.2	443.8
115°	546.3	548.4	549.9	550.6	551.5	552.3	553.2
117.5°	611.2	612.9	613.9	614.1	614.2	614.3	614.5
120°	654.1	655.8	656.7	656.7	656.7	656.7	656.7
122.5°	695.6	696.7	697.4	697.6	697.8	697.9	698.0
125°	753.8	754.3	754.7	755.2	755.5	756.0	756.4
127.5°	813.3	814.0	814.2	813.7	813.3	812.8	812.5
130°	849.2	850.1	850.3	849.9	849.4	849.0	848.6
132.5°	883.1	883.9	884.0	883.4	882.9	882.3	881.7
135°	934.2	934.8	934.8	934.2	933.6	932.9	932.4
137.5°	980.3	981.3	981.6	981.2	980.8	980.3	980.0
140°	1009.2	1010.0	1010.2	1009.7	1009.4	1009.0	1008.5
142.5°	1036.5	1037.2	1037.2	1036.6	1036.0	1035.5	1034.9
145°	1074.7	1075.2	1075.3	1075.3	1075.3	1075.3	1075.3
147.5°	1109.1	1109.6	1109.3	1108.3	1107.4	1106.4	1105.4
150°	1130.2	1130.7	1130.5	1129.9	1129.3	1128.6	1128.0
152.5°	1149.2	1150.0	1149.9	1149.0	1148.0	1147.1	1146.0
155°	1175.4	1176.4	1176.3	1175.1	1173.8	1172.5	1171.3
157.5°	1198.0	1199.3	1199.1	1197.4	1195.8	1194.2	1192.6
160°	1210.8	1212.0	1211.9	1210.5	1209.0	1207.6	1206.1
162.5°	1222.6	1224.0	1224.1	1222.8	1221.4	1220.2	1218.9
165°	1238.4	1240.1	1240.2	1238.7	1237.3	1235.8	1234.4
167.5°	1250.5	1252.1	1252.1	1250.5	1248.8	1247.1	1245.4
170°	1257.3	1258.9	1258.9	1257.3	1255.6	1253.9	1252.2
172.5°	1261.7	1263.4	1263.3	1261.5	1259.6	1257.8	1255.9
175°	1267.0	1268.4	1268.3	1266.6	1265.0	1263.3	1261.6
177.5°	1268.9	1270.2	1270.0	1268.3	1266.7	1265.0	1263.3
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3

(END OF REPORT)