

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: P332288-840

Luminaire Tested: **S123RDIP-S560D1025U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332288-840
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: S123RDIP-S560D1025U840-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1025 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6391.0 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

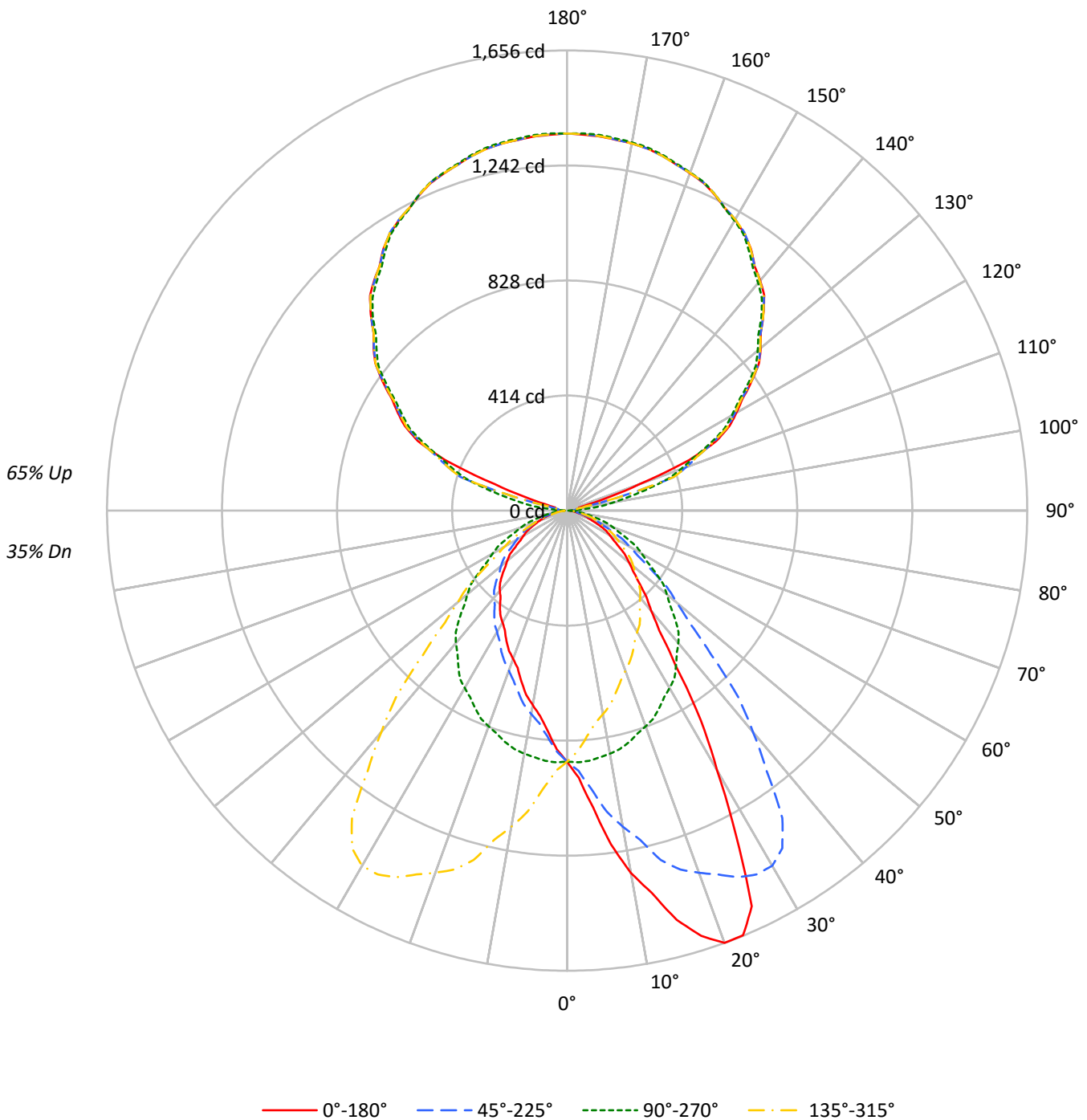
Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	75	75	75	58	58	58	43	43	43	35
1	95	91	87	84	86	82	79	76	66	64	62	52	50	49	38	37	37	31
2	87	80	74	69	78	72	68	63	59	55	52	46	44	42	34	33	32	26
3	79	70	64	58	72	64	58	53	52	48	44	41	38	36	31	29	27	23
4	73	62	55	49	66	57	50	46	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	16
7	57	45	38	32	51	41	35	30	34	29	25	27	24	21	21	18	17	14
8	53	41	34	29	48	38	31	27	31	26	23	25	21	19	19	17	15	13
9	49	37	30	25	45	34	28	24	28	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°	9725	9725	9725	9725
5°	11594	9767	8602	9767
10°	14476	9711	7770	9711
15°	16992	9611	7086	9611
20°	18963	9464	6504	9464
25°	18659	9308	6147	9308
30°	13412	9163	5778	9163
35°	8956	8976	5540	8976
40°	6598	8751	5295	8751
45°	5535	8356	5051	8356
50°	4883	7839	4716	7839
55°	4282	7246	4252	7246
60°	3813	6678	3899	6678
65°	3349	6067	3627	6067
70°	2628	5526	3311	5526
75°	2316	4824	3023	4824
80°	2015	4097	2975	4097
85°	1618	3298	3149	3298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.9	1.4
10°-20°	277.6	4.3
20°-30°	436.1	6.8
30°-40°	455.0	7.1
40°-50°	389.4	6.1
50°-60°	296.8	4.6
60°-70°	190.2	3.0
70°-80°	91.5	1.4
80°-90°	28.0	0.4
90°-100°	49.3	0.8
100°-110°	235.1	3.7
110°-120°	564.7	8.8
120°-130°	719.1	11.3
130°-140°	768.3	12.0
140°-150°	718.5	11.2
150°-160°	579.5	9.1
160°-170°	374.0	5.9
170°-180°	128.9	2.0
0°-30°	802.6	12.6
0°-40°	1257.6	19.7
0°-60°	1943.7	30.4
0°-90°	2253.5	35.3
90°-120°	849.1	13.3
90°-150°	3055.0	47.8
90°-180°	4137.0	64.7
0°-180°	6391.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	904	904	904	904	904	
5°	1073	904	796	904	1073	111
15°	1525	862	636	862	1525	432
25°	1571	784	518	784	1571	675
35°	682	683	422	683	682	447
45°	364	549	332	549	364	286
55°	228	386	227	386	228	206
65°	132	238	142	238	132	129
75°	56	116	73	116	56	60
85°	13	27	26	27	13	16
90°	30	1	30	1	30	14
95°	38	62	38	62	38	32
105°	44	300	44	300	44	101
115°	593	564	593	564	593	548
125°	810	794	810	794	810	724
135°	999	989	999	989	999	770
145°	1152	1141	1152	1141	1152	719
155°	1255	1257	1255	1257	1255	579
165°	1322	1326	1322	1326	1322	373
175°	1352	1357	1352	1357	1352	129
180°	1357	1357	1357	1357	1357	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	962.3	963.6	959.6	959.0	954.3	953.1	953.1	946.5	942.5	937.3	934.2
5°	1073.0	1079.1	1076.1	1069.1	1057.5	1054.8	1047.4	1035.8	1022.7	1006.4	998.8
7.5°	1211.1	1219.6	1216.3	1205.6	1193.5	1183.6	1162.9	1143.6	1116.6	1093.0	1072.7
10°	1324.4	1315.5	1308.6	1298.1	1286.9	1268.7	1247.1	1217.3	1182.9	1155.8	1125.6
12.5°	1409.2	1407.8	1398.9	1388.2	1372.3	1355.0	1328.4	1292.1	1252.1	1212.9	1178.5
15°	1524.8	1527.1	1521.3	1510.1	1487.6	1457.0	1416.8	1401.8	1344.5	1301.9	1259.4
17.5°	1604.8	1604.3	1603.5	1587.9	1565.1	1543.3	1506.0	1466.3	1414.5	1354.5	1297.3
20°	1655.5	1651.6	1652.4	1635.0	1618.0	1592.9	1556.5	1498.8	1456.3	1387.0	1327.9
22.5°	1654.3	1653.5	1656.4	1650.4	1638.1	1618.8	1590.2	1541.6	1487.2	1417.3	1350.8
25°	1571.1	1568.1	1586.3	1591.2	1611.0	1614.5	1606.0	1579.3	1527.8	1455.9	1373.5
27.5°	1314.9	1313.2	1347.0	1389.2	1442.8	1484.4	1524.6	1544.0	1527.8	1476.3	1393.8
30°	1079.1	1115.5	1132.6	1193.7	1261.7	1342.9	1414.1	1481.8	1498.4	1476.0	1408.4
32.5°	896.0	927.7	941.9	994.4	1057.8	1153.0	1259.7	1355.5	1423.3	1440.5	1399.7
35°	681.6	682.0	714.4	737.6	796.4	894.2	997.9	1126.3	1253.9	1350.7	1360.8
37.5°	543.8	545.7	565.4	588.5	632.7	684.4	775.7	882.4	1029.9	1178.3	1265.4
40°	469.6	473.0	487.8	510.6	542.3	581.4	652.6	753.1	876.1	1041.3	1176.3
42.5°	421.9	427.6	435.2	452.7	472.3	509.0	566.5	644.2	756.0	912.2	1067.9
45°	363.6	366.7	372.4	380.6	398.4	423.9	462.6	514.8	607.6	733.4	889.3
47.5°	320.7	319.1	325.2	331.8	343.7	361.0	387.0	429.6	495.8	596.6	728.9
50°	291.6	291.2	295.5	300.5	311.7	324.6	345.8	377.9	430.5	514.0	635.1
52.5°	264.4	265.9	268.9	275.2	283.3	293.6	312.7	335.8	381.0	453.1	554.0
55°	228.2	229.3	233.6	237.1	242.9	253.4	265.4	284.7	315.6	365.9	449.1
57.5°	197.5	197.0	201.2	202.0	208.5	217.0	226.3	241.4	263.8	301.1	357.2
60°	177.1	176.0	179.5	182.2	185.6	192.6	200.4	215.1	232.9	260.3	308.3
62.5°	158.5	158.0	160.6	163.3	166.1	172.5	179.0	190.3	204.4	227.5	265.6
65°	131.5	132.7	133.8	135.0	136.5	140.4	146.6	154.3	164.0	180.3	207.7
67.5°	103.3	104.5	104.9	107.2	110.6	113.0	116.8	123.7	130.5	144.1	159.8
70°	83.5	83.1	83.5	84.7	89.0	93.2	98.3	103.3	107.6	117.2	130.4
72.5°	71.8	71.1	72.1	72.3	74.4	75.5	78.8	83.5	89.0	95.5	105.0
75°	55.7	55.7	55.7	55.7	57.3	58.1	59.2	60.4	62.3	65.3	72.3
77.5°	41.2	41.2	41.8	42.1	42.5	42.9	43.6	44.8	45.4	47.2	50.1
80°	32.5	32.9	32.5	32.9	32.9	33.6	34.0	35.2	35.5	37.6	38.7
82.5°	24.4	24.2	24.4	24.8	24.8	25.7	25.7	26.6	26.7	27.6	28.8
85°	13.1	12.4	13.1	12.7	13.5	12.7	13.1	13.9	13.9	14.3	15.9
87.5°	9.2	9.7	9.0	9.2	9.1	9.3	9.1	8.9	9.4	8.9	8.6
90°	30.2	29.8	29.4	28.9	28.5	27.8	26.9	26.0	25.0	24.2	21.3
92.5°	33.4	33.2	32.9	32.6	32.4	31.5	30.1	28.7	27.3	25.9	23.6
95°	38.3	38.3	38.3	38.3	38.3	37.6	36.0	34.3	32.8	31.2	28.8
97.5°	41.5	41.3	41.1	40.9	40.6	39.6	37.9	36.1	34.2	32.4	48.6
100°	42.3	42.1	41.9	41.7	41.4	40.4	38.7	36.9	35.0	33.2	68.2
102.5°	43.1	42.7	42.3	41.9	41.5	44.1	49.7	55.2	60.8	66.3	104.5
105°	44.3	43.9	43.4	43.0	42.5	62.2	101.8	141.5	181.1	220.8	241.0
107.5°	139.3	169.2	199.0	228.9	258.8	288.3	317.4	346.5	375.6	404.7	401.4
110°	277.2	309.2	341.2	373.2	405.4	425.1	432.4	439.8	447.2	454.6	452.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	475.5	482.3	489.1	495.8	502.6	505.9	505.8	505.6	505.5	505.4	502.9
115°	592.7	591.8	590.9	590.0	589.2	587.5	585.3	583.1	580.9	578.6	576.5
117.5°	658.4	658.2	658.0	657.9	657.7	656.7	654.9	653.2	651.4	649.5	648.5
120°	703.6	703.6	703.6	703.6	703.6	702.7	700.8	699.1	697.3	695.5	694.9
122.5°	747.9	747.7	747.6	747.4	747.2	746.5	745.3	744.0	742.8	741.4	740.6
125°	810.4	810.0	809.5	809.1	808.6	808.2	807.7	807.3	806.9	806.4	805.5
127.5°	870.5	870.9	871.4	871.8	872.3	872.1	871.4	870.7	870.0	869.3	868.2
130°	909.2	909.7	910.1	910.6	911.0	910.8	909.9	909.0	908.1	907.2	906.3
132.5°	944.7	945.3	945.9	946.5	947.2	947.1	946.1	945.2	944.4	943.5	942.8
135°	999.0	999.6	1000.3	1001.0	1001.6	1001.6	1001.0	1000.3	999.6	999.0	998.0
137.5°	1050.0	1050.4	1050.9	1051.3	1051.7	1051.4	1050.4	1049.2	1048.1	1047.1	1046.6
140°	1080.6	1081.1	1081.5	1081.9	1082.4	1082.2	1081.3	1080.4	1079.4	1078.5	1077.9
142.5°	1108.8	1109.4	1110.0	1110.6	1111.3	1111.3	1110.5	1109.8	1109.1	1108.4	1107.7
145°	1152.2	1152.2	1152.2	1152.2	1152.2	1152.0	1151.4	1151.0	1150.5	1150.1	1149.6
147.5°	1184.4	1185.4	1186.5	1187.5	1188.5	1188.8	1188.3	1187.9	1187.5	1187.0	1186.6
150°	1208.6	1209.2	1209.9	1210.6	1211.2	1211.4	1210.9	1210.5	1210.0	1209.6	1209.1
152.5°	1227.9	1229.0	1230.0	1231.0	1232.0	1232.1	1231.3	1230.5	1229.7	1228.9	1228.7
155°	1255.0	1256.3	1257.7	1259.0	1260.3	1260.4	1259.3	1258.2	1257.1	1256.0	1255.8
157.5°	1277.8	1279.5	1281.2	1282.9	1284.8	1285.0	1283.5	1282.2	1280.9	1279.5	1279.8
160°	1292.2	1293.8	1295.4	1297.0	1298.5	1298.6	1297.3	1296.0	1294.6	1293.2	1293.4
162.5°	1306.0	1307.4	1308.7	1310.1	1311.5	1311.4	1309.9	1308.4	1306.9	1305.4	1305.6
165°	1322.5	1324.0	1325.6	1327.2	1328.8	1328.7	1326.9	1325.0	1323.2	1321.5	1321.7
167.5°	1334.3	1336.2	1338.0	1339.8	1341.5	1341.5	1339.8	1338.0	1336.2	1334.3	1334.3
170°	1341.6	1343.4	1345.2	1347.1	1348.8	1348.8	1347.1	1345.2	1343.4	1341.6	1341.6
172.5°	1345.6	1347.7	1349.6	1351.6	1353.5	1353.6	1351.8	1350.1	1348.3	1346.5	1346.3
175°	1351.7	1353.5	1355.3	1357.1	1358.9	1359.0	1357.5	1355.8	1354.3	1352.7	1352.5
177.5°	1353.5	1355.3	1357.2	1358.9	1360.7	1360.9	1359.5	1358.0	1356.6	1355.1	1354.9
180°	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	932.9	932.0	927.7	922.7	916.3	911.9	908.5	906.7	901.1	894.2	889.6
5°	990.6	979.0	966.6	951.5	937.6	923.3	914.4	903.9	891.2	876.9	866.8
7.5°	1052.3	1029.6	1005.0	979.8	954.7	932.3	912.5	895.5	875.3	854.7	840.3
10°	1099.6	1066.4	1032.0	996.7	964.6	934.5	911.3	888.5	864.1	840.5	822.7
12.5°	1142.7	1098.9	1059.2	1015.9	974.9	938.9	905.4	878.6	849.3	824.2	803.9
15°	1197.1	1152.3	1104.3	1038.5	984.0	938.4	897.8	862.5	827.0	796.1	776.3
17.5°	1248.0	1180.5	1116.1	1061.2	990.4	933.3	883.7	841.6	802.6	769.8	745.5
20°	1269.1	1203.8	1133.7	1063.7	994.1	930.3	872.6	826.2	785.6	748.4	726.0
22.5°	1281.7	1207.7	1134.0	1058.7	984.8	918.5	861.5	810.4	766.4	731.1	703.5
25°	1296.6	1208.3	1127.1	1052.9	977.4	905.4	837.8	783.7	736.1	698.5	669.1
27.5°	1306.3	1202.5	1106.5	1024.0	947.5	875.9	813.9	756.4	708.1	668.4	636.9
30°	1308.2	1197.9	1090.8	1001.4	923.6	857.9	792.1	737.2	686.2	644.0	614.6
32.5°	1310.6	1186.5	1069.4	974.5	894.9	829.8	770.2	717.7	665.4	623.9	593.9
35°	1300.4	1180.1	1037.0	928.0	848.3	785.2	731.4	683.1	631.7	591.4	560.9
37.5°	1256.5	1155.0	1003.4	875.5	792.1	733.8	689.9	647.8	600.7	557.2	528.5
40°	1212.2	1130.2	977.4	843.6	756.6	696.6	657.1	622.8	577.1	536.4	505.5
42.5°	1146.3	1096.5	952.7	810.2	716.3	658.5	625.3	593.0	553.0	511.7	482.6
45°	1025.4	1032.0	902.0	757.0	660.7	602.6	571.3	548.9	513.3	479.3	449.5
47.5°	873.7	935.2	842.5	700.2	602.0	547.4	520.1	500.5	476.6	443.1	416.0
50°	774.8	862.5	794.9	662.2	565.1	511.0	483.9	468.1	447.2	420.8	395.0
52.5°	683.5	777.8	737.3	619.8	525.2	475.6	449.2	436.2	419.6	394.9	371.4
55°	557.3	652.9	643.6	555.8	465.3	420.8	400.7	386.1	374.8	356.3	337.7
57.5°	450.8	541.4	546.2	484.6	412.5	368.6	351.3	340.2	332.9	318.9	301.7
60°	383.7	466.9	483.1	436.7	374.8	336.1	319.1	310.2	304.4	293.2	280.0
62.5°	328.0	398.8	417.2	383.7	338.6	302.4	289.1	280.5	276.6	266.9	255.3
65°	251.1	309.8	327.6	309.0	285.5	256.4	245.6	238.2	234.8	229.3	220.9
67.5°	188.7	231.7	251.2	238.0	229.5	211.2	204.3	200.4	197.2	193.6	186.4
70°	151.6	183.4	203.5	200.0	193.0	183.4	178.3	175.6	172.5	169.5	163.2
72.5°	121.9	143.7	162.6	164.4	158.6	156.7	152.3	151.2	149.3	145.6	142.2
75°	80.9	95.9	109.1	114.1	116.4	118.4	116.4	116.0	115.6	112.6	110.6
77.5°	53.0	61.1	69.4	78.0	81.6	84.2	84.8	86.2	85.2	83.6	82.7
80°	40.6	42.5	48.4	55.7	61.5	63.8	65.3	66.1	65.7	65.3	63.8
82.5°	29.5	31.1	33.8	39.0	43.8	47.8	48.7	48.5	49.4	49.6	48.4
85°	15.9	16.3	17.1	17.8	20.5	24.7	26.0	26.7	27.5	27.5	25.1
87.5°	8.6	7.8	7.8	7.3	7.8	7.6	9.0	10.1	10.9	10.1	10.5
90°	18.4	15.5	12.5	10.0	7.8	5.5	3.2	1.0	3.2	5.5	7.8
92.5°	21.4	19.2	17.1	16.3	16.9	17.5	18.1	18.8	18.1	17.5	16.9
95°	26.4	23.8	21.4	24.7	33.9	43.1	52.3	61.5	52.3	43.1	33.9
97.5°	64.7	80.9	96.9	107.0	111.2	115.3	119.5	123.6	119.5	115.3	111.2
100°	103.1	138.0	173.0	188.2	183.8	179.4	174.8	170.4	174.8	179.4	183.8
102.5°	142.7	180.9	219.0	236.5	233.3	230.0	226.8	223.6	226.8	230.0	233.3
105°	261.1	281.2	301.3	310.2	307.8	305.3	302.9	300.3	302.9	305.3	307.8
107.5°	398.3	395.1	391.9	389.3	387.4	385.4	383.4	381.4	383.4	385.4	387.4
110°	449.7	447.2	444.7	442.6	440.8	439.0	437.3	435.5	437.3	439.0	440.8



TEST NUMBER: P332288-840

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	500.5	498.1	495.5	493.5	491.9	490.3	488.7	487.1	488.7	490.3	491.9
115°	574.5	572.5	570.6	568.9	567.5	566.1	564.8	563.5	564.8	566.1	567.5
117.5°	647.5	646.4	645.4	644.1	642.5	640.8	639.1	637.4	639.1	640.8	642.5
120°	694.2	693.5	692.9	691.5	689.4	687.4	685.4	683.4	685.4	687.4	689.4
122.5°	739.8	738.9	738.1	736.8	735.2	733.5	731.8	730.2	731.8	733.5	735.2
125°	804.6	803.8	802.8	801.4	799.7	797.9	796.1	794.3	796.1	797.9	799.7
127.5°	867.2	866.1	864.9	863.5	861.7	860.0	858.2	856.4	858.2	860.0	861.7
130°	905.4	904.5	903.6	902.3	900.5	898.7	896.9	895.1	896.9	898.7	900.5
132.5°	942.0	941.3	940.6	939.4	937.6	935.7	934.0	932.2	934.0	935.7	937.6
135°	997.1	996.2	995.3	994.2	992.9	991.5	990.2	988.9	990.2	991.5	992.9
137.5°	1046.1	1045.6	1045.1	1044.0	1042.4	1040.7	1038.9	1037.2	1038.9	1040.7	1042.4
140°	1077.2	1076.5	1075.9	1074.9	1073.5	1072.2	1070.9	1069.4	1070.9	1072.2	1073.5
142.5°	1107.0	1106.4	1105.7	1104.7	1103.4	1102.0	1100.7	1099.3	1100.7	1102.0	1103.4
145°	1149.2	1148.8	1148.3	1147.3	1145.8	1144.2	1142.7	1141.0	1142.7	1144.2	1145.8
147.5°	1186.1	1185.7	1185.2	1184.5	1183.5	1182.5	1181.4	1180.3	1181.4	1182.5	1183.5
150°	1208.7	1208.2	1207.8	1207.2	1206.6	1205.9	1205.3	1204.6	1205.3	1205.9	1206.6
152.5°	1228.4	1228.1	1227.9	1227.6	1227.3	1227.0	1226.7	1226.3	1226.7	1227.0	1227.3
155°	1255.5	1255.3	1255.1	1255.2	1255.7	1256.1	1256.5	1257.0	1256.5	1256.1	1255.7
157.5°	1280.0	1280.2	1280.4	1280.6	1280.6	1280.7	1280.7	1280.7	1280.7	1280.7	1280.6
160°	1293.7	1293.9	1294.1	1294.3	1294.6	1294.8	1295.1	1295.3	1295.1	1294.8	1294.6
162.5°	1305.8	1306.1	1306.3	1306.7	1307.3	1307.8	1308.4	1309.0	1308.4	1307.8	1307.3
165°	1321.9	1322.1	1322.4	1322.8	1323.5	1324.1	1324.8	1325.5	1324.8	1324.1	1323.5
167.5°	1334.3	1334.3	1334.3	1334.8	1335.7	1336.7	1337.6	1338.4	1337.6	1336.7	1335.7
170°	1341.6	1341.6	1341.6	1342.1	1343.0	1343.9	1344.7	1345.6	1344.7	1343.9	1343.0
172.5°	1346.2	1345.9	1345.7	1346.3	1347.3	1348.4	1349.5	1350.5	1349.5	1348.4	1347.3
175°	1352.3	1352.0	1351.8	1352.3	1353.4	1354.5	1355.6	1356.8	1355.6	1354.5	1353.4
177.5°	1354.8	1354.6	1354.4	1354.8	1355.6	1356.6	1357.5	1358.4	1357.5	1356.6	1355.6
180°	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	888.1	884.0	881.3	875.0	871.1	866.8	862.4	865.2	864.8	864.5	864.5
5°	858.3	849.4	841.3	830.8	824.3	816.2	809.9	809.2	810.7	805.3	802.2
7.5°	828.8	816.6	805.1	793.6	781.3	771.5	765.5	762.7	758.7	755.4	751.8
10°	808.0	793.8	782.4	768.2	755.1	743.5	736.1	731.0	728.3	725.6	720.6
12.5°	786.7	772.6	758.3	742.1	729.6	716.2	710.7	705.1	699.8	696.8	689.9
15°	755.4	737.2	722.2	705.1	691.3	678.0	670.3	659.1	657.5	653.7	646.7
17.5°	724.1	704.4	683.6	671.0	655.2	641.6	629.8	626.0	614.9	610.8	604.7
20°	699.3	681.2	665.3	648.6	625.8	613.1	603.8	598.7	589.9	584.4	580.6
22.5°	678.0	659.4	641.2	621.8	602.9	588.7	581.8	574.0	569.2	561.6	557.3
25°	647.5	627.4	605.3	584.4	570.9	560.1	549.3	542.3	535.3	531.8	524.1
27.5°	612.1	591.1	570.5	554.6	538.0	527.3	517.5	511.3	502.9	497.1	492.8
30°	592.6	567.8	550.1	535.7	514.4	504.4	497.1	489.3	483.1	477.0	472.6
32.5°	570.0	547.3	530.5	512.8	496.4	485.5	475.9	469.2	463.9	458.1	453.8
35°	534.5	515.6	498.2	480.4	468.4	457.2	446.0	440.2	435.2	429.7	425.9
37.5°	502.5	484.8	468.3	451.4	436.6	427.4	418.4	413.9	407.2	403.5	399.6
40°	482.7	465.3	447.6	431.3	415.8	408.9	400.7	394.2	388.0	385.3	381.0
42.5°	461.1	443.6	428.7	411.1	398.5	389.0	381.5	374.4	369.7	365.8	363.3
45°	429.0	413.4	398.8	381.4	369.4	361.2	352.7	346.2	341.9	339.2	335.0
47.5°	397.8	382.3	367.4	352.2	340.6	331.3	322.9	318.2	312.7	309.3	306.4
50°	375.2	361.2	345.4	331.4	319.9	310.6	303.7	297.8	292.8	288.5	286.6
52.5°	354.5	339.6	325.9	313.0	300.7	290.1	283.9	277.7	274.0	269.0	266.8
55°	320.2	306.0	294.4	281.6	269.6	260.7	253.0	247.5	243.7	238.2	235.2
57.5°	288.1	275.3	261.5	250.4	238.0	230.6	224.1	216.7	212.1	207.8	204.8
60°	266.5	251.8	239.8	229.3	218.5	208.8	203.1	197.2	192.3	187.9	185.3
62.5°	243.9	231.1	219.7	208.3	198.4	190.0	183.3	178.3	174.0	171.3	168.5
65°	209.2	199.2	187.6	178.3	169.1	162.9	157.4	153.2	150.1	148.1	145.8
67.5°	177.4	167.6	157.5	148.3	142.2	137.4	133.9	130.3	128.8	126.2	124.7
70°	156.6	146.6	137.7	130.8	124.5	121.1	118.8	116.0	114.5	111.4	109.9
72.5°	134.1	126.8	120.4	114.6	109.7	106.5	103.6	100.3	97.8	94.4	92.8
75°	105.6	99.1	94.0	90.1	87.1	82.8	78.6	75.0	73.9	72.7	72.3
77.5°	78.2	74.0	70.4	67.2	63.3	60.2	59.3	58.5	58.3	57.7	57.7
80°	61.5	57.7	54.9	51.1	48.8	48.8	48.8	48.0	48.4	48.4	48.4
82.5°	45.7	42.1	40.7	39.3	38.9	39.2	39.2	39.3	39.1	39.7	39.4
85°	23.6	23.9	24.7	24.3	24.7	24.7	25.5	25.1	25.5	24.7	25.5
87.5°	10.7	12.1	13.0	13.8	14.7	15.0	15.6	15.8	16.2	16.4	16.6
90°	10.0	12.5	15.5	18.4	21.3	24.2	25.0	26.0	26.9	27.8	28.5
92.5°	16.3	17.1	19.2	21.4	23.6	25.9	27.3	28.7	30.1	31.5	32.4
95°	24.7	21.4	23.8	26.4	28.8	31.2	32.8	34.3	36.0	37.6	38.3
97.5°	107.0	96.9	80.9	64.7	48.6	32.4	34.2	36.1	37.9	39.6	40.6
100°	188.2	173.0	138.0	103.1	68.2	33.2	35.0	36.9	38.7	40.4	41.4
102.5°	236.5	219.0	180.9	142.7	104.5	66.3	60.8	55.2	49.7	44.1	41.5
105°	310.2	301.3	281.2	261.1	241.0	220.8	181.1	141.5	101.8	62.2	42.5
107.5°	389.3	391.9	395.1	398.3	401.4	404.7	375.6	346.5	317.4	288.3	258.8
110°	442.6	444.7	447.2	449.7	452.1	454.6	447.2	439.8	432.4	425.1	405.4



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	493.5	495.5	498.1	500.5	502.9	505.4	505.5	505.6	505.8	505.9	502.6
115°	568.9	570.6	572.5	574.5	576.5	578.6	580.9	583.1	585.3	587.5	589.2
117.5°	644.1	645.4	646.4	647.5	648.5	649.5	651.4	653.2	654.9	656.7	657.7
120°	691.5	692.9	693.5	694.2	694.9	695.5	697.3	699.1	700.8	702.7	703.6
122.5°	736.8	738.1	738.9	739.8	740.6	741.4	742.8	744.0	745.3	746.5	747.2
125°	801.4	802.8	803.8	804.6	805.5	806.4	806.9	807.3	807.7	808.2	808.6
127.5°	863.5	864.9	866.1	867.2	868.2	869.3	870.0	870.7	871.4	872.1	872.3
130°	902.3	903.6	904.5	905.4	906.3	907.2	908.1	909.0	909.9	910.8	911.0
132.5°	939.4	940.6	941.3	942.0	942.8	943.5	944.4	945.2	946.1	947.1	947.2
135°	994.2	995.3	996.2	997.1	998.0	999.0	999.6	1000.3	1001.0	1001.6	1001.6
137.5°	1044.0	1045.1	1045.6	1046.1	1046.6	1047.1	1048.1	1049.2	1050.4	1051.4	1051.7
140°	1074.9	1075.9	1076.5	1077.2	1077.9	1078.5	1079.4	1080.4	1081.3	1082.2	1082.4
142.5°	1104.7	1105.7	1106.4	1107.0	1107.7	1108.4	1109.1	1109.8	1110.5	1111.3	1111.3
145°	1147.3	1148.3	1148.8	1149.2	1149.6	1150.1	1150.5	1151.0	1151.4	1152.0	1152.2
147.5°	1184.5	1185.2	1185.7	1186.1	1186.6	1187.0	1187.5	1187.9	1188.3	1188.8	1188.5
150°	1207.2	1207.8	1208.2	1208.7	1209.1	1209.6	1210.0	1210.5	1210.9	1211.4	1211.2
152.5°	1227.6	1227.9	1228.1	1228.4	1228.7	1228.9	1229.7	1230.5	1231.3	1232.1	1232.0
155°	1255.2	1255.1	1255.3	1255.5	1255.8	1256.0	1257.1	1258.2	1259.3	1260.4	1260.3
157.5°	1280.6	1280.4	1280.2	1280.0	1279.8	1279.5	1280.9	1282.2	1283.5	1285.0	1284.8
160°	1294.3	1294.1	1293.9	1293.7	1293.4	1293.2	1294.6	1296.0	1297.3	1298.6	1298.5
162.5°	1306.7	1306.3	1306.1	1305.8	1305.6	1305.4	1306.9	1308.4	1309.9	1311.4	1311.5
165°	1322.8	1322.4	1322.1	1321.9	1321.7	1321.5	1323.2	1325.0	1326.9	1328.7	1328.8
167.5°	1334.8	1334.3	1334.3	1334.3	1334.3	1334.3	1336.2	1338.0	1339.8	1341.5	1341.5
170°	1342.1	1341.6	1341.6	1341.6	1341.6	1341.6	1343.4	1345.2	1347.1	1348.8	1348.8
172.5°	1346.3	1345.7	1345.9	1346.2	1346.3	1346.5	1348.3	1350.1	1351.8	1353.6	1353.5
175°	1352.3	1351.8	1352.0	1352.3	1352.5	1352.7	1354.3	1355.8	1357.5	1359.0	1358.9
177.5°	1354.8	1354.4	1354.6	1354.8	1354.9	1355.1	1356.6	1358.0	1359.5	1360.9	1360.7
180°	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8



TEST NUMBER: P332288-840

CATALOG NUMBER: S123RDIP-S560D1025U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	860.8	860.5	860.8	859.6	860.8	860.5	860.8	864.5	864.5	864.8	865.2
5°	801.0	800.6	799.5	796.1	799.5	800.6	801.0	802.2	805.3	810.7	809.2
7.5°	748.8	748.3	744.9	745.0	744.9	748.3	748.8	751.8	755.4	758.7	762.7
10°	717.9	718.3	713.7	710.9	713.7	718.3	717.9	720.6	725.6	728.3	731.0
12.5°	687.9	686.1	682.4	679.3	682.4	686.1	687.9	689.9	696.8	699.8	705.1
15°	648.2	644.4	635.1	635.9	635.1	644.4	648.2	646.7	653.7	657.5	659.1
17.5°	601.6	598.7	598.6	593.2	598.6	598.7	601.6	604.7	610.8	614.9	626.0
20°	574.4	572.5	573.2	567.8	573.2	572.5	574.4	580.6	584.4	589.9	598.7
22.5°	553.0	551.1	547.9	546.1	547.9	551.1	553.0	557.3	561.6	569.2	574.0
25°	521.8	518.7	515.6	517.6	515.6	518.7	521.8	524.1	531.8	535.3	542.3
27.5°	490.5	488.2	485.1	484.7	485.1	488.2	490.5	492.8	497.1	502.9	511.3
30°	470.7	468.4	466.9	464.9	466.9	468.4	470.7	472.6	477.0	483.1	489.3
32.5°	450.6	450.2	447.4	447.0	447.4	450.2	450.6	453.8	458.1	463.9	469.2
35°	424.3	422.0	421.2	421.6	421.2	422.0	424.3	425.9	429.7	435.2	440.2
37.5°	399.3	396.3	394.9	393.4	394.9	396.3	399.3	399.6	403.5	407.2	413.9
40°	381.4	378.3	377.5	376.8	377.5	378.3	381.4	381.0	385.3	388.0	394.2
42.5°	361.2	360.0	359.6	358.2	359.6	360.0	361.2	363.3	365.8	369.7	374.4
45°	333.8	333.5	331.1	331.8	331.1	333.5	333.8	335.0	339.2	341.9	346.2
47.5°	304.9	303.2	301.5	302.7	301.5	303.2	304.9	306.4	309.3	312.7	318.2
50°	285.1	284.3	280.8	281.6	280.8	284.3	285.1	286.6	288.5	292.8	297.8
52.5°	265.3	262.4	261.1	260.5	261.1	262.4	265.3	266.8	269.0	274.0	277.7
55°	232.5	228.9	227.4	226.6	227.4	228.9	232.5	235.2	238.2	243.7	247.5
57.5°	200.3	199.3	198.1	198.9	198.1	199.3	200.3	204.8	207.8	212.1	216.7
60°	181.4	181.4	181.4	181.1	181.4	181.4	181.4	185.3	187.9	192.3	197.2
62.5°	166.8	165.9	165.6	166.1	165.6	165.9	166.8	168.5	171.3	174.0	178.3
65°	144.6	144.3	142.7	142.4	142.7	144.3	144.6	145.8	148.1	150.1	153.2
67.5°	123.7	122.3	121.9	121.3	121.9	122.3	123.7	124.7	126.2	128.8	130.3
70°	108.0	107.1	104.8	105.2	104.8	107.1	108.0	109.9	111.4	114.5	116.0
72.5°	90.9	90.1	89.7	89.1	89.7	90.1	90.9	92.8	94.4	97.8	100.3
75°	71.9	71.6	71.2	72.7	71.2	71.6	71.9	72.3	72.7	73.9	75.0
77.5°	57.7	57.7	57.9	57.3	57.9	57.7	57.7	57.7	57.7	58.3	58.5
80°	48.4	48.4	48.0	48.0	48.0	48.4	48.4	48.4	48.4	48.4	48.0
82.5°	38.8	39.1	39.3	38.7	39.3	39.1	38.8	39.4	39.7	39.1	39.3
85°	25.5	25.1	26.0	25.5	26.0	25.1	25.5	25.5	24.7	25.5	25.1
87.5°	17.3	16.7	16.8	17.2	16.8	16.7	17.3	16.6	16.4	16.2	15.8
90°	28.9	29.4	29.8	30.2	29.8	29.4	28.9	28.5	27.8	26.9	26.0
92.5°	32.6	32.9	33.2	33.4	33.2	32.9	32.6	32.4	31.5	30.1	28.7
95°	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	37.6	36.0	34.3
97.5°	40.9	41.1	41.3	41.5	41.3	41.1	40.9	40.6	39.6	37.9	36.1
100°	41.7	41.9	42.1	42.3	42.1	41.9	41.7	41.4	40.4	38.7	36.9
102.5°	41.9	42.3	42.7	43.1	42.7	42.3	41.9	41.5	44.1	49.7	55.2
105°	43.0	43.4	43.9	44.3	43.9	43.4	43.0	42.5	62.2	101.8	141.5
107.5°	228.9	199.0	169.2	139.3	169.2	199.0	228.9	258.8	288.3	317.4	346.5
110°	373.2	341.2	309.2	277.2	309.2	341.2	373.2	405.4	425.1	432.4	439.8



TEST NUMBER: P332288-840

CATALOG NUMBER: S123RDIP-S560D1025U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	495.8	489.1	482.3	475.5	482.3	489.1	495.8	502.6	505.9	505.8	505.6
115°	590.0	590.9	591.8	592.7	591.8	590.9	590.0	589.2	587.5	585.3	583.1
117.5°	657.9	658.0	658.2	658.4	658.2	658.0	657.9	657.7	656.7	654.9	653.2
120°	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6	702.7	700.8	699.1
122.5°	747.4	747.6	747.7	747.9	747.7	747.6	747.4	747.2	746.5	745.3	744.0
125°	809.1	809.5	810.0	810.4	810.0	809.5	809.1	808.6	808.2	807.7	807.3
127.5°	871.8	871.4	870.9	870.5	870.9	871.4	871.8	872.3	872.1	871.4	870.7
130°	910.6	910.1	909.7	909.2	909.7	910.1	910.6	911.0	910.8	909.9	909.0
132.5°	946.5	945.9	945.3	944.7	945.3	945.9	946.5	947.2	947.1	946.1	945.2
135°	1001.0	1000.3	999.6	999.0	999.6	1000.3	1001.0	1001.6	1001.6	1001.0	1000.3
137.5°	1051.3	1050.9	1050.4	1050.0	1050.4	1050.9	1051.3	1051.7	1051.4	1050.4	1049.2
140°	1081.9	1081.5	1081.1	1080.6	1081.1	1081.5	1081.9	1082.4	1082.2	1081.3	1080.4
142.5°	1110.6	1110.0	1109.4	1108.8	1109.4	1110.0	1110.6	1111.3	1111.3	1110.5	1109.8
145°	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.0	1151.4	1151.0
147.5°	1187.5	1186.5	1185.4	1184.4	1185.4	1186.5	1187.5	1188.5	1188.8	1188.3	1187.9
150°	1210.6	1209.9	1209.2	1208.6	1209.2	1209.9	1210.6	1211.2	1211.4	1210.9	1210.5
152.5°	1231.0	1230.0	1229.0	1227.9	1229.0	1230.0	1231.0	1232.0	1232.1	1231.3	1230.5
155°	1259.0	1257.7	1256.3	1255.0	1256.3	1257.7	1259.0	1260.3	1260.4	1259.3	1258.2
157.5°	1282.9	1281.2	1279.5	1277.8	1279.5	1281.2	1282.9	1284.8	1285.0	1283.5	1282.2
160°	1297.0	1295.4	1293.8	1292.2	1293.8	1295.4	1297.0	1298.5	1298.6	1297.3	1296.0
162.5°	1310.1	1308.7	1307.4	1306.0	1307.4	1308.7	1310.1	1311.5	1311.4	1309.9	1308.4
165°	1327.2	1325.6	1324.0	1322.5	1324.0	1325.6	1327.2	1328.8	1328.7	1326.9	1325.0
167.5°	1339.8	1338.0	1336.2	1334.3	1336.2	1338.0	1339.8	1341.5	1341.5	1339.8	1338.0
170°	1347.1	1345.2	1343.4	1341.6	1343.4	1345.2	1347.1	1348.8	1348.8	1347.1	1345.2
172.5°	1351.6	1349.6	1347.7	1345.6	1347.7	1349.6	1351.6	1353.5	1353.6	1351.8	1350.1
175°	1357.1	1355.3	1353.5	1351.7	1353.5	1355.3	1357.1	1358.9	1359.0	1357.5	1355.8
177.5°	1358.9	1357.2	1355.3	1353.5	1355.3	1357.2	1358.9	1360.7	1360.9	1359.5	1358.0
180°	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8



TEST NUMBER: P332288-840

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	862.4	866.8	871.1	875.0	881.3	884.0	888.1	889.6	894.2	901.1	906.7
5°	809.9	816.2	824.3	830.8	841.3	849.4	858.3	866.8	876.9	891.2	903.9
7.5°	765.5	771.5	781.3	793.6	805.1	816.6	828.8	840.3	854.7	875.3	895.5
10°	736.1	743.5	755.1	768.2	782.4	793.8	808.0	822.7	840.5	864.1	888.5
12.5°	710.7	716.2	729.6	742.1	758.3	772.6	786.7	803.9	824.2	849.3	878.6
15°	670.3	678.0	691.3	705.1	722.2	737.2	755.4	776.3	796.1	827.0	862.5
17.5°	629.8	641.6	655.2	671.0	683.6	704.4	724.1	745.5	769.8	802.6	841.6
20°	603.8	613.1	625.8	648.6	665.3	681.2	699.3	726.0	748.4	785.6	826.2
22.5°	581.8	588.7	602.9	621.8	641.2	659.4	678.0	703.5	731.1	766.4	810.4
25°	549.3	560.1	570.9	584.4	605.3	627.4	647.5	669.1	698.5	736.1	783.7
27.5°	517.5	527.3	538.0	554.6	570.5	591.1	612.1	636.9	668.4	708.1	756.4
30°	497.1	504.4	514.4	535.7	550.1	567.8	592.6	614.6	644.0	686.2	737.2
32.5°	475.9	485.5	496.4	512.8	530.5	547.3	570.0	593.9	623.9	665.4	717.7
35°	446.0	457.2	468.4	480.4	498.2	515.6	534.5	560.9	591.4	631.7	683.1
37.5°	418.4	427.4	436.6	451.4	468.3	484.8	502.5	528.5	557.2	600.7	647.8
40°	400.7	408.9	415.8	431.3	447.6	465.3	482.7	505.5	536.4	577.1	622.8
42.5°	381.5	389.0	398.5	411.1	428.7	443.6	461.1	482.6	511.7	553.0	593.0
45°	352.7	361.2	369.4	381.4	398.8	413.4	429.0	449.5	479.3	513.3	548.9
47.5°	322.9	331.3	340.6	352.2	367.4	382.3	397.8	416.0	443.1	476.6	500.5
50°	303.7	310.6	319.9	331.4	345.4	361.2	375.2	395.0	420.8	447.2	468.1
52.5°	283.9	290.1	300.7	313.0	325.9	339.6	354.5	371.4	394.9	419.6	436.2
55°	253.0	260.7	269.6	281.6	294.4	306.0	320.2	337.7	356.3	374.8	386.1
57.5°	224.1	230.6	238.0	250.4	261.5	275.3	288.1	301.7	318.9	332.9	340.2
60°	203.1	208.8	218.5	229.3	239.8	251.8	266.5	280.0	293.2	304.4	310.2
62.5°	183.3	190.0	198.4	208.3	219.7	231.1	243.9	255.3	266.9	276.6	280.5
65°	157.4	162.9	169.1	178.3	187.6	199.2	209.2	220.9	229.3	234.8	238.2
67.5°	133.9	137.4	142.2	148.3	157.5	167.6	177.4	186.4	193.6	197.2	200.4
70°	118.8	121.1	124.5	130.8	137.7	146.6	156.6	163.2	169.5	172.5	175.6
72.5°	103.6	106.5	109.7	114.6	120.4	126.8	134.1	142.2	145.6	149.3	151.2
75°	78.6	82.8	87.1	90.1	94.0	99.1	105.6	110.6	112.6	115.6	116.0
77.5°	59.3	60.2	63.3	67.2	70.4	74.0	78.2	82.7	83.6	85.2	86.2
80°	48.8	48.8	48.8	51.1	54.9	57.7	61.5	63.8	65.3	65.7	66.1
82.5°	39.2	39.2	38.9	39.3	40.7	42.1	45.7	48.4	49.6	49.4	48.5
85°	25.5	24.7	24.7	24.3	24.7	23.9	23.6	25.1	27.5	27.5	26.7
87.5°	15.6	15.0	14.7	13.8	13.0	12.1	10.7	10.5	10.1	10.9	10.1
90°	25.0	24.2	21.3	18.4	15.5	12.5	10.0	7.8	5.5	3.2	1.0
92.5°	27.3	25.9	23.6	21.4	19.2	17.1	16.3	16.9	17.5	18.1	18.8
95°	32.8	31.2	28.8	26.4	23.8	21.4	24.7	33.9	43.1	52.3	61.5
97.5°	34.2	32.4	48.6	64.7	80.9	96.9	107.0	111.2	115.3	119.5	123.6
100°	35.0	33.2	68.2	103.1	138.0	173.0	188.2	183.8	179.4	174.8	170.4
102.5°	60.8	66.3	104.5	142.7	180.9	219.0	236.5	233.3	230.0	226.8	223.6
105°	181.1	220.8	241.0	261.1	281.2	301.3	310.2	307.8	305.3	302.9	300.3
107.5°	375.6	404.7	401.4	398.3	395.1	391.9	389.3	387.4	385.4	383.4	381.4
110°	447.2	454.6	452.1	449.7	447.2	444.7	442.6	440.8	439.0	437.3	435.5



TEST NUMBER: P332288-840

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	505.5	505.4	502.9	500.5	498.1	495.5	493.5	491.9	490.3	488.7	487.1
115°	580.9	578.6	576.5	574.5	572.5	570.6	568.9	567.5	566.1	564.8	563.5
117.5°	651.4	649.5	648.5	647.5	646.4	645.4	644.1	642.5	640.8	639.1	637.4
120°	697.3	695.5	694.9	694.2	693.5	692.9	691.5	689.4	687.4	685.4	683.4
122.5°	742.8	741.4	740.6	739.8	738.9	738.1	736.8	735.2	733.5	731.8	730.2
125°	806.9	806.4	805.5	804.6	803.8	802.8	801.4	799.7	797.9	796.1	794.3
127.5°	870.0	869.3	868.2	867.2	866.1	864.9	863.5	861.7	860.0	858.2	856.4
130°	908.1	907.2	906.3	905.4	904.5	903.6	902.3	900.5	898.7	896.9	895.1
132.5°	944.4	943.5	942.8	942.0	941.3	940.6	939.4	937.6	935.7	934.0	932.2
135°	999.6	999.0	998.0	997.1	996.2	995.3	994.2	992.9	991.5	990.2	988.9
137.5°	1048.1	1047.1	1046.6	1046.1	1045.6	1045.1	1044.0	1042.4	1040.7	1038.9	1037.2
140°	1079.4	1078.5	1077.9	1077.2	1076.5	1075.9	1074.9	1073.5	1072.2	1070.9	1069.4
142.5°	1109.1	1108.4	1107.7	1107.0	1106.4	1105.7	1104.7	1103.4	1102.0	1100.7	1099.3
145°	1150.5	1150.1	1149.6	1149.2	1148.8	1148.3	1147.3	1145.8	1144.2	1142.7	1141.0
147.5°	1187.5	1187.0	1186.6	1186.1	1185.7	1185.2	1184.5	1183.5	1182.5	1181.4	1180.3
150°	1210.0	1209.6	1209.1	1208.7	1208.2	1207.8	1207.2	1206.6	1205.9	1205.3	1204.6
152.5°	1229.7	1228.9	1228.7	1228.4	1228.1	1227.9	1227.6	1227.3	1227.0	1226.7	1226.3
155°	1257.1	1256.0	1255.8	1255.5	1255.3	1255.1	1255.2	1255.7	1256.1	1256.5	1257.0
157.5°	1280.9	1279.5	1279.8	1280.0	1280.2	1280.4	1280.6	1280.6	1280.7	1280.7	1280.7
160°	1294.6	1293.2	1293.4	1293.7	1293.9	1294.1	1294.3	1294.6	1294.8	1295.1	1295.3
162.5°	1306.9	1305.4	1305.6	1305.8	1306.1	1306.3	1306.7	1307.3	1307.8	1308.4	1309.0
165°	1323.2	1321.5	1321.7	1321.9	1322.1	1322.4	1322.8	1323.5	1324.1	1324.8	1325.5
167.5°	1336.2	1334.3	1334.3	1334.3	1334.3	1334.3	1334.8	1335.7	1336.7	1337.6	1338.4
170°	1343.4	1341.6	1341.6	1341.6	1341.6	1341.6	1342.1	1343.0	1343.9	1344.7	1345.6
172.5°	1348.3	1346.5	1346.3	1346.2	1345.9	1345.7	1346.3	1347.3	1348.4	1349.5	1350.5
175°	1354.3	1352.7	1352.5	1352.3	1352.0	1351.8	1352.3	1353.4	1354.5	1355.6	1356.8
177.5°	1356.6	1355.1	1354.9	1354.8	1354.6	1354.4	1354.8	1355.6	1356.6	1357.5	1358.4
180°	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8



TEST NUMBER: P332288-840

CATALOG NUMBER: S123RDIP-S560D1025U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	908.5	911.9	916.3	922.7	927.7	932.0	932.9	934.2	937.3	942.5	946.5
5°	914.4	923.3	937.6	951.5	966.6	979.0	990.6	998.8	1006.4	1022.7	1035.8
7.5°	912.5	932.3	954.7	979.8	1005.0	1029.6	1052.3	1072.7	1093.0	1116.6	1143.6
10°	911.3	934.5	964.6	996.7	1032.0	1066.4	1099.6	1125.6	1155.8	1182.9	1217.3
12.5°	905.4	938.9	974.9	1015.9	1059.2	1098.9	1142.7	1178.5	1212.9	1252.1	1292.1
15°	897.8	938.4	984.0	1038.5	1104.3	1152.3	1197.1	1259.4	1301.9	1344.5	1401.8
17.5°	883.7	933.3	990.4	1061.2	1116.1	1180.5	1248.0	1297.3	1354.5	1414.5	1466.3
20°	872.6	930.3	994.1	1063.7	1133.7	1203.8	1269.1	1327.9	1387.0	1456.3	1498.8
22.5°	861.5	918.5	984.8	1058.7	1134.0	1207.7	1281.7	1350.8	1417.3	1487.2	1541.6
25°	837.8	905.4	977.4	1052.9	1127.1	1208.3	1296.6	1373.5	1455.9	1527.8	1579.3
27.5°	813.9	875.9	947.5	1024.0	1106.5	1202.5	1306.3	1393.8	1476.3	1527.8	1544.0
30°	792.1	857.9	923.6	1001.4	1090.8	1197.9	1308.2	1408.4	1476.0	1498.4	1481.8
32.5°	770.2	829.8	894.9	974.5	1069.4	1186.5	1310.6	1399.7	1440.5	1423.3	1355.5
35°	731.4	785.2	848.3	928.0	1037.0	1180.1	1300.4	1360.8	1350.7	1253.9	1126.3
37.5°	689.9	733.8	792.1	875.5	1003.4	1155.0	1256.5	1265.4	1178.3	1029.9	882.4
40°	657.1	696.6	756.6	843.6	977.4	1130.2	1212.2	1176.3	1041.3	876.1	753.1
42.5°	625.3	658.5	716.3	810.2	952.7	1096.5	1146.3	1067.9	912.2	756.0	644.2
45°	571.3	602.6	660.7	757.0	902.0	1032.0	1025.4	889.3	733.4	607.6	514.8
47.5°	520.1	547.4	602.0	700.2	842.5	935.2	873.7	728.9	596.6	495.8	429.6
50°	483.9	511.0	565.1	662.2	794.9	862.5	774.8	635.1	514.0	430.5	377.9
52.5°	449.2	475.6	525.2	619.8	737.3	777.8	683.5	554.0	453.1	381.0	335.8
55°	400.7	420.8	465.3	555.8	643.6	652.9	557.3	449.1	365.9	315.6	284.7
57.5°	351.3	368.6	412.5	484.6	546.2	541.4	450.8	357.2	301.1	263.8	241.4
60°	319.1	336.1	374.8	436.7	483.1	466.9	383.7	308.3	260.3	232.9	215.1
62.5°	289.1	302.4	338.6	383.7	417.2	398.8	328.0	265.6	227.5	204.4	190.3
65°	245.6	256.4	285.5	309.0	327.6	309.8	251.1	207.7	180.3	164.0	154.3
67.5°	204.3	211.2	229.5	238.0	251.2	231.7	188.7	159.8	144.1	130.5	123.7
70°	178.3	183.4	193.0	200.0	203.5	183.4	151.6	130.4	117.2	107.6	103.3
72.5°	152.3	156.7	158.6	164.4	162.6	143.7	121.9	105.0	95.5	89.0	83.5
75°	116.4	118.4	116.4	114.1	109.1	95.9	80.9	72.3	65.3	62.3	60.4
77.5°	84.8	84.2	81.6	78.0	69.4	61.1	53.0	50.1	47.2	45.4	44.8
80°	65.3	63.8	61.5	55.7	48.4	42.5	40.6	38.7	37.6	35.5	35.2
82.5°	48.7	47.8	43.8	39.0	33.8	31.1	29.5	28.8	27.6	26.7	26.6
85°	26.0	24.7	20.5	17.8	17.1	16.3	15.9	15.9	14.3	13.9	13.9
87.5°	9.0	7.6	7.8	7.3	7.8	7.8	8.6	8.6	8.9	9.4	8.9
90°	3.2	5.5	7.8	10.0	12.5	15.5	18.4	21.3	24.2	25.0	26.0
92.5°	18.1	17.5	16.9	16.3	17.1	19.2	21.4	23.6	25.9	27.3	28.7
95°	52.3	43.1	33.9	24.7	21.4	23.8	26.4	28.8	31.2	32.8	34.3
97.5°	119.5	115.3	111.2	107.0	96.9	80.9	64.7	48.6	32.4	34.2	36.1
100°	174.8	179.4	183.8	188.2	173.0	138.0	103.1	68.2	33.2	35.0	36.9
102.5°	226.8	230.0	233.3	236.5	219.0	180.9	142.7	104.5	66.3	60.8	55.2
105°	302.9	305.3	307.8	310.2	301.3	281.2	261.1	241.0	220.8	181.1	141.5
107.5°	383.4	385.4	387.4	389.3	391.9	395.1	398.3	401.4	404.7	375.6	346.5
110°	437.3	439.0	440.8	442.6	444.7	447.2	449.7	452.1	454.6	447.2	439.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	488.7	490.3	491.9	493.5	495.5	498.1	500.5	502.9	505.4	505.5	505.6
115°	564.8	566.1	567.5	568.9	570.6	572.5	574.5	576.5	578.6	580.9	583.1
117.5°	639.1	640.8	642.5	644.1	645.4	646.4	647.5	648.5	649.5	651.4	653.2
120°	685.4	687.4	689.4	691.5	692.9	693.5	694.2	694.9	695.5	697.3	699.1
122.5°	731.8	733.5	735.2	736.8	738.1	738.9	739.8	740.6	741.4	742.8	744.0
125°	796.1	797.9	799.7	801.4	802.8	803.8	804.6	805.5	806.4	806.9	807.3
127.5°	858.2	860.0	861.7	863.5	864.9	866.1	867.2	868.2	869.3	870.0	870.7
130°	896.9	898.7	900.5	902.3	903.6	904.5	905.4	906.3	907.2	908.1	909.0
132.5°	934.0	935.7	937.6	939.4	940.6	941.3	942.0	942.8	943.5	944.4	945.2
135°	990.2	991.5	992.9	994.2	995.3	996.2	997.1	998.0	999.0	999.6	1000.3
137.5°	1038.9	1040.7	1042.4	1044.0	1045.1	1045.6	1046.1	1046.6	1047.1	1048.1	1049.2
140°	1070.9	1072.2	1073.5	1074.9	1075.9	1076.5	1077.2	1077.9	1078.5	1079.4	1080.4
142.5°	1100.7	1102.0	1103.4	1104.7	1105.7	1106.4	1107.0	1107.7	1108.4	1109.1	1109.8
145°	1142.7	1144.2	1145.8	1147.3	1148.3	1148.8	1149.2	1149.6	1150.1	1150.5	1151.0
147.5°	1181.4	1182.5	1183.5	1184.5	1185.2	1185.7	1186.1	1186.6	1187.0	1187.5	1187.9
150°	1205.3	1205.9	1206.6	1207.2	1207.8	1208.2	1208.7	1209.1	1209.6	1210.0	1210.5
152.5°	1226.7	1227.0	1227.3	1227.6	1227.9	1228.1	1228.4	1228.7	1228.9	1229.7	1230.5
155°	1256.5	1256.1	1255.7	1255.2	1255.1	1255.3	1255.5	1255.8	1256.0	1257.1	1258.2
157.5°	1280.7	1280.7	1280.6	1280.6	1280.4	1280.2	1280.0	1279.8	1279.5	1280.9	1282.2
160°	1295.1	1294.8	1294.6	1294.3	1294.1	1293.9	1293.7	1293.4	1293.2	1294.6	1296.0
162.5°	1308.4	1307.8	1307.3	1306.7	1306.3	1306.1	1305.8	1305.6	1305.4	1306.9	1308.4
165°	1324.8	1324.1	1323.5	1322.8	1322.4	1322.1	1321.9	1321.7	1321.5	1323.2	1325.0
167.5°	1337.6	1336.7	1335.7	1334.8	1334.3	1334.3	1334.3	1334.3	1334.3	1336.2	1338.0
170°	1344.7	1343.9	1343.0	1342.1	1341.6	1341.6	1341.6	1341.6	1341.6	1343.4	1345.2
172.5°	1349.5	1348.4	1347.3	1346.3	1345.7	1345.9	1346.2	1346.3	1346.5	1348.3	1350.1
175°	1355.6	1354.5	1353.4	1352.3	1351.8	1352.0	1352.3	1352.5	1352.7	1354.3	1355.8
177.5°	1357.5	1356.6	1355.6	1354.8	1354.4	1354.6	1354.8	1354.9	1355.1	1356.6	1358.0
180°	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	953.1	953.1	954.3	959.0	959.6	963.6	962.3
5°	1047.4	1054.8	1057.5	1069.1	1076.1	1079.1	1073.0
7.5°	1162.9	1183.6	1193.5	1205.6	1216.3	1219.6	1211.1
10°	1247.1	1268.7	1286.9	1298.1	1308.6	1315.5	1324.4
12.5°	1328.4	1355.0	1372.3	1388.2	1398.9	1407.8	1409.2
15°	1416.8	1457.0	1487.6	1510.1	1521.3	1527.1	1524.8
17.5°	1506.0	1543.3	1565.1	1587.9	1603.5	1604.3	1604.8
20°	1556.5	1592.9	1618.0	1635.0	1652.4	1651.6	1655.5
22.5°	1590.2	1618.8	1638.1	1650.4	1656.4	1653.5	1654.3
25°	1606.0	1614.5	1611.0	1591.2	1586.3	1568.1	1571.1
27.5°	1524.6	1484.4	1442.8	1389.2	1347.0	1313.2	1314.9
30°	1414.1	1342.9	1261.7	1193.7	1132.6	1115.5	1079.1
32.5°	1259.7	1153.0	1057.8	994.4	941.9	927.7	896.0
35°	997.9	894.2	796.4	737.6	714.4	682.0	681.6
37.5°	775.7	684.4	632.7	588.5	565.4	545.7	543.8
40°	652.6	581.4	542.3	510.6	487.8	473.0	469.6
42.5°	566.5	509.0	472.3	452.7	435.2	427.6	421.9
45°	462.6	423.9	398.4	380.6	372.4	366.7	363.6
47.5°	387.0	361.0	343.7	331.8	325.2	319.1	320.7
50°	345.8	324.6	311.7	300.5	295.5	291.2	291.6
52.5°	312.7	293.6	283.3	275.2	268.9	265.9	264.4
55°	265.4	253.4	242.9	237.1	233.6	229.3	228.2
57.5°	226.3	217.0	208.5	202.0	201.2	197.0	197.5
60°	200.4	192.6	185.6	182.2	179.5	176.0	177.1
62.5°	179.0	172.5	166.1	163.3	160.6	158.0	158.5
65°	146.6	140.4	136.5	135.0	133.8	132.7	131.5
67.5°	116.8	113.0	110.6	107.2	104.9	104.5	103.3
70°	98.3	93.2	89.0	84.7	83.5	83.1	83.5
72.5°	78.8	75.5	74.4	72.3	72.1	71.1	71.8
75°	59.2	58.1	57.3	55.7	55.7	55.7	55.7
77.5°	43.6	42.9	42.5	42.1	41.8	41.2	41.2
80°	34.0	33.6	32.9	32.9	32.5	32.9	32.5
82.5°	25.7	25.7	24.8	24.8	24.4	24.2	24.4
85°	13.1	12.7	13.5	12.7	13.1	12.4	13.1
87.5°	9.1	9.3	9.1	9.2	9.0	9.7	9.2
90°	26.9	27.8	28.5	28.9	29.4	29.8	30.2
92.5°	30.1	31.5	32.4	32.6	32.9	33.2	33.4
95°	36.0	37.6	38.3	38.3	38.3	38.3	38.3
97.5°	37.9	39.6	40.6	40.9	41.1	41.3	41.5
100°	38.7	40.4	41.4	41.7	41.9	42.1	42.3
102.5°	49.7	44.1	41.5	41.9	42.3	42.7	43.1
105°	101.8	62.2	42.5	43.0	43.4	43.9	44.3
107.5°	317.4	288.3	258.8	228.9	199.0	169.2	139.3
110°	432.4	425.1	405.4	373.2	341.2	309.2	277.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	505.8	505.9	502.6	495.8	489.1	482.3	475.5
115°	585.3	587.5	589.2	590.0	590.9	591.8	592.7
117.5°	654.9	656.7	657.7	657.9	658.0	658.2	658.4
120°	700.8	702.7	703.6	703.6	703.6	703.6	703.6
122.5°	745.3	746.5	747.2	747.4	747.6	747.7	747.9
125°	807.7	808.2	808.6	809.1	809.5	810.0	810.4
127.5°	871.4	872.1	872.3	871.8	871.4	870.9	870.5
130°	909.9	910.8	911.0	910.6	910.1	909.7	909.2
132.5°	946.1	947.1	947.2	946.5	945.9	945.3	944.7
135°	1001.0	1001.6	1001.6	1001.0	1000.3	999.6	999.0
137.5°	1050.4	1051.4	1051.7	1051.3	1050.9	1050.4	1050.0
140°	1081.3	1082.2	1082.4	1081.9	1081.5	1081.1	1080.6
142.5°	1110.5	1111.3	1111.3	1110.6	1110.0	1109.4	1108.8
145°	1151.4	1152.0	1152.2	1152.2	1152.2	1152.2	1152.2
147.5°	1188.3	1188.8	1188.5	1187.5	1186.5	1185.4	1184.4
150°	1210.9	1211.4	1211.2	1210.6	1209.9	1209.2	1208.6
152.5°	1231.3	1232.1	1232.0	1231.0	1230.0	1229.0	1227.9
155°	1259.3	1260.4	1260.3	1259.0	1257.7	1256.3	1255.0
157.5°	1283.5	1285.0	1284.8	1282.9	1281.2	1279.5	1277.8
160°	1297.3	1298.6	1298.5	1297.0	1295.4	1293.8	1292.2
162.5°	1309.9	1311.4	1311.5	1310.1	1308.7	1307.4	1306.0
165°	1326.9	1328.7	1328.8	1327.2	1325.6	1324.0	1322.5
167.5°	1339.8	1341.5	1341.5	1339.8	1338.0	1336.2	1334.3
170°	1347.1	1348.8	1348.8	1347.1	1345.2	1343.4	1341.6
172.5°	1351.8	1353.6	1353.5	1351.6	1349.6	1347.7	1345.6
175°	1357.5	1359.0	1358.9	1357.1	1355.3	1353.5	1351.7
177.5°	1359.5	1360.9	1360.7	1358.9	1357.2	1355.3	1353.5
180°	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8

(END OF REPORT)