

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: P332294-940

Luminaire Tested: **S123RDIP-S560D1195U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332294-940
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-S560D1195U940-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1195 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6242.8 lumens
Efficiency: N/A
Efficacy: 126.4 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

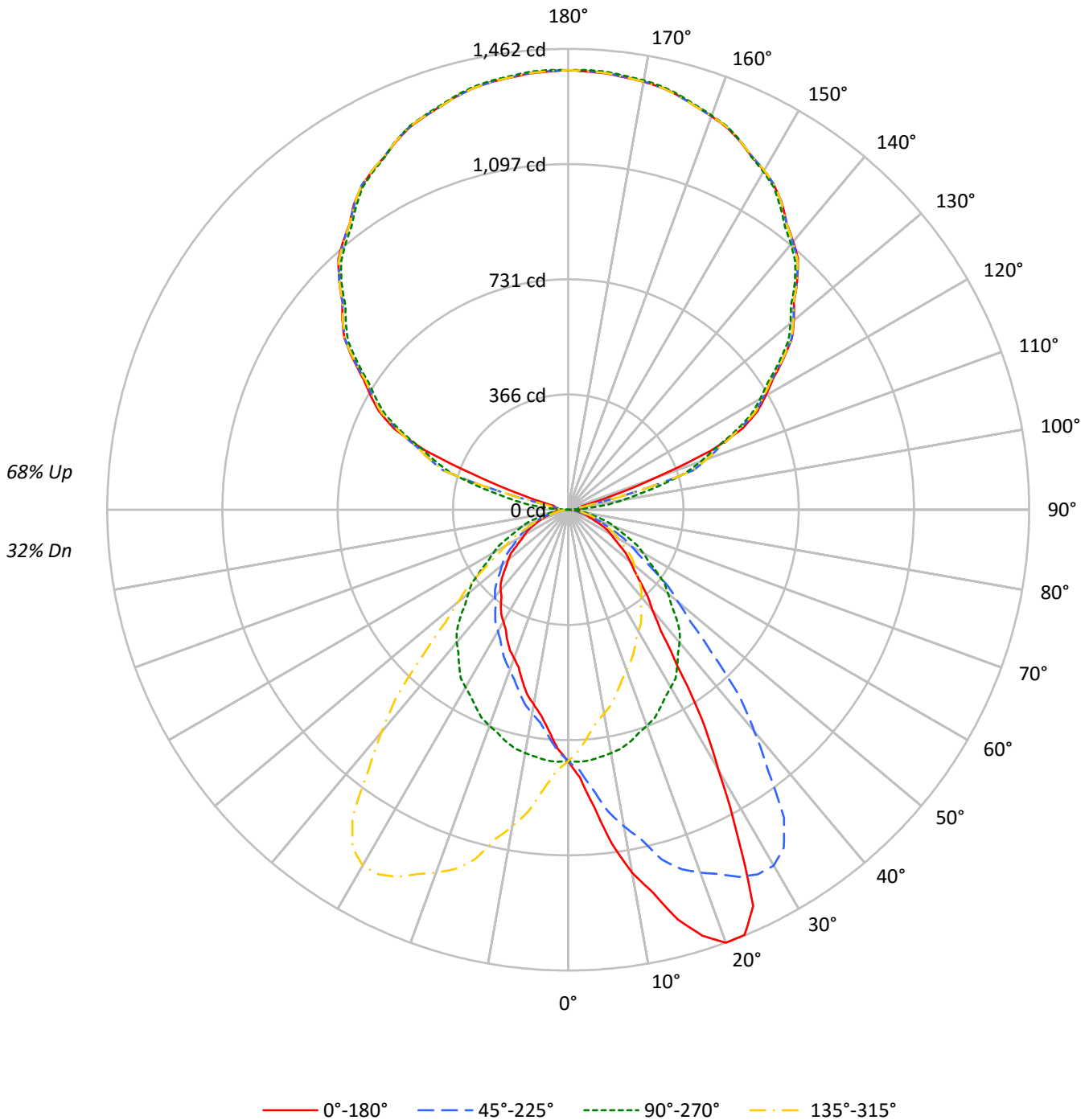
Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	103	103	103	103	93	93	93	93	73	73	73	56	56	56	39	39	39	32
1	94	90	86	83	85	81	78	75	65	63	61	49	48	47	35	35	34	28
2	86	79	73	68	77	71	67	62	57	54	51	44	42	40	32	30	29	24
3	79	70	63	57	71	63	57	53	51	46	43	39	36	34	28	27	25	21
4	72	62	54	49	65	56	50	45	45	41	37	35	32	29	26	24	22	18
5	66	55	47	42	59	50	43	38	40	36	32	31	28	26	23	21	19	16
6	61	49	42	36	55	45	38	33	36	32	28	29	25	23	21	19	17	14
7	56	45	37	32	51	41	34	29	33	28	25	26	23	20	19	17	15	13
8	52	40	33	28	47	37	30	26	30	25	22	24	20	18	18	16	14	11
9	49	37	30	25	44	34	27	23	28	23	20	22	18	16	16	14	13	10
10	45	34	27	22	41	31	25	21	25	21	18	20	17	14	15	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8587	8587	8587	8587
5°	10237	8625	7595	8625
10°	12783	8575	6862	8575
15°	15004	8487	6257	8487
20°	16745	8356	5743	8356
25°	16476	8219	5428	8219
30°	11844	8090	5102	8090
35°	7908	7926	4892	7926
40°	5826	7727	4675	7727
45°	4886	7377	4460	7377
50°	4312	6921	4163	6921
55°	3781	6397	3755	6397
60°	3367	5896	3442	5896
65°	2957	5359	3202	5359
70°	2319	4881	2924	4881
75°	2046	4263	2670	4263
80°	1779	3620	2628	3620
85°	1433	2902	2791	2902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	1.3
10°-20°	245.1	3.9
20°-30°	385.1	6.2
30°-40°	401.8	6.4
40°-50°	343.8	5.5
50°-60°	262.1	4.2
60°-70°	168.0	2.7
70°-80°	80.8	1.3
80°-90°	25.3	0.4
90°-100°	50.7	0.8
100°-110°	241.6	3.9
110°-120°	580.4	9.3
120°-130°	739.1	11.8
130°-140°	789.7	12.6
140°-150°	738.4	11.8
150°-160°	595.6	9.5
160°-170°	384.4	6.2
170°-180°	132.5	2.1
0°-30°	708.7	11.4
0°-40°	1110.4	17.8
0°-60°	1716.3	27.5
0°-90°	1990.4	31.9
90°-120°	872.7	14.0
90°-150°	3139.9	50.3
90°-180°	4252.0	68.1
0°-180°	6242.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	798	798	798	798	798	
5°	947	798	703	798	947	98
15°	1346	762	562	762	1346	382
25°	1387	692	457	692	1387	596
35°	602	603	372	603	602	395
45°	321	485	293	485	321	252
55°	202	341	200	341	202	182
65°	116	210	126	210	116	114
75°	49	102	64	102	49	53
85°	12	24	23	24	12	14
90°	31	1	31	1	31	14
95°	39	63	39	63	39	33
105°	46	309	46	309	46	104
115°	609	579	609	579	609	563
125°	833	816	833	816	833	744
135°	1027	1016	1027	1016	1027	792
145°	1184	1173	1184	1173	1184	739
155°	1290	1292	1290	1292	1290	595
165°	1359	1362	1359	1362	1359	384
175°	1389	1394	1389	1394	1389	132
180°	1394	1394	1394	1394	1394	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	849.7	850.9	847.3	846.8	842.7	841.6	841.6	835.8	832.2	827.6	824.9
5°	947.4	952.9	950.2	944.1	933.8	931.4	924.9	914.6	903.0	888.7	881.9
7.5°	1069.4	1076.9	1074.0	1064.5	1053.8	1045.1	1026.8	1009.8	986.0	965.1	947.2
10°	1169.5	1161.5	1155.5	1146.2	1136.3	1120.3	1101.2	1074.9	1044.5	1020.6	993.9
12.5°	1244.3	1243.0	1235.2	1225.7	1211.7	1196.5	1173.0	1140.9	1105.6	1071.0	1040.6
15°	1346.4	1348.4	1343.3	1333.4	1313.6	1286.6	1251.1	1237.8	1187.2	1149.6	1112.1
17.5°	1417.0	1416.6	1415.9	1402.1	1382.0	1362.7	1329.8	1294.8	1249.0	1196.1	1145.5
20°	1461.8	1458.4	1459.1	1443.7	1428.7	1406.5	1374.4	1323.5	1285.9	1224.8	1172.5
22.5°	1460.7	1460.0	1462.6	1457.3	1446.4	1429.4	1404.2	1361.2	1313.2	1251.5	1192.8
25°	1387.3	1384.6	1400.7	1405.1	1422.5	1425.6	1418.1	1394.5	1349.1	1285.6	1212.8
27.5°	1161.1	1159.6	1189.4	1226.6	1274.0	1310.7	1346.2	1363.3	1349.1	1303.6	1230.7
30°	952.9	985.0	1000.1	1054.0	1114.1	1185.8	1248.7	1308.4	1323.1	1303.3	1243.6
32.5°	791.1	819.1	831.7	878.1	934.1	1018.1	1112.3	1196.9	1256.8	1271.9	1235.9
35°	601.8	602.2	630.8	651.3	703.2	789.6	881.2	994.5	1107.2	1192.7	1201.6
37.5°	480.2	481.9	499.3	519.7	558.7	604.3	684.9	779.2	909.4	1040.4	1117.3
40°	414.6	417.7	430.7	450.8	478.8	513.4	576.2	664.9	773.6	919.4	1038.7
42.5°	372.6	377.6	384.2	399.8	417.1	449.4	500.2	568.8	667.5	805.5	943.0
45°	321.0	323.8	328.9	336.1	351.8	374.3	408.5	454.6	536.5	647.6	785.2
47.5°	283.2	281.8	287.1	293.0	303.4	318.8	341.7	379.3	437.8	526.8	643.6
50°	257.5	257.2	260.9	265.4	275.3	286.6	305.3	333.7	380.1	453.9	560.8
52.5°	233.4	234.8	237.5	243.0	250.1	259.2	276.1	296.5	336.4	400.1	489.2
55°	201.5	202.5	206.3	209.4	214.5	223.7	234.3	251.4	278.7	323.1	396.5
57.5°	174.4	174.0	177.6	178.3	184.1	191.6	199.8	213.1	232.9	265.9	315.4
60°	156.4	155.4	158.5	160.9	163.9	170.0	176.9	189.9	205.6	229.9	272.2
62.5°	140.0	139.6	141.8	144.2	146.7	152.3	158.1	168.0	180.5	200.9	234.5
65°	116.1	117.2	118.2	119.2	120.6	123.9	129.5	136.3	144.8	159.2	183.4
67.5°	91.2	92.3	92.6	94.7	97.6	99.8	103.2	109.2	115.2	127.2	141.1
70°	73.7	73.4	73.7	74.8	78.6	82.3	86.8	91.2	95.0	103.5	115.1
72.5°	63.4	62.8	63.7	63.8	65.7	66.7	69.6	73.7	78.6	84.4	92.7
75°	49.2	49.2	49.2	49.2	50.6	51.3	52.3	53.3	55.0	57.7	63.8
77.5°	36.4	36.4	36.9	37.2	37.5	37.9	38.5	39.6	40.1	41.6	44.2
80°	28.7	29.1	28.7	29.1	29.1	29.7	30.1	31.1	31.4	33.2	34.2
82.5°	21.6	21.4	21.6	21.9	21.9	22.6	22.6	23.5	23.5	24.3	25.4
85°	11.6	11.0	11.6	11.2	11.9	11.2	11.6	12.3	12.3	12.7	14.0
87.5°	8.9	9.4	8.7	8.9	8.8	9.0	8.8	8.6	9.0	8.6	8.2
90°	31.1	30.6	30.1	29.7	29.2	28.5	27.6	26.7	25.8	24.9	21.8
92.5°	34.4	34.2	33.9	33.5	33.3	32.5	30.9	29.4	28.0	26.5	24.3
95°	39.3	39.3	39.3	39.3	39.3	38.5	36.9	35.3	33.7	32.1	29.6
97.5°	42.7	42.4	42.3	42.0	41.7	40.8	38.9	37.0	35.2	33.3	49.9
100°	43.5	43.2	43.1	42.8	42.6	41.6	39.7	37.9	36.0	34.2	70.1
102.5°	44.3	44.0	43.5	43.1	42.7	45.3	51.0	56.7	62.4	68.1	107.4
105°	45.6	45.1	44.7	44.2	43.8	63.8	104.6	145.3	186.1	226.9	247.6
107.5°	143.2	173.9	204.6	235.3	266.0	296.3	326.2	356.1	385.9	415.9	412.6
110°	284.9	317.8	350.7	383.7	416.6	436.8	444.4	452.0	459.7	467.3	464.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	488.7	495.7	502.7	509.6	516.6	520.0	519.9	519.7	519.6	519.4	516.9
115°	609.1	608.2	607.3	606.4	605.5	603.9	601.5	599.2	597.0	594.7	592.6
117.5°	676.7	676.5	676.4	676.2	676.0	674.9	673.2	671.3	669.4	667.6	666.6
120°	723.1	723.1	723.1	723.1	723.1	722.2	720.3	718.5	716.7	714.8	714.2
122.5°	768.7	768.6	768.3	768.1	767.9	767.2	766.0	764.6	763.4	762.1	761.2
125°	832.9	832.5	832.1	831.5	831.1	830.6	830.2	829.7	829.3	828.8	827.9
127.5°	894.7	895.2	895.6	896.1	896.5	896.3	895.6	894.9	894.2	893.4	892.3
130°	934.5	935.0	935.4	935.9	936.3	936.1	935.1	934.2	933.4	932.4	931.5
132.5°	970.9	971.6	972.2	972.9	973.5	973.4	972.5	971.5	970.6	969.7	968.9
135°	1026.7	1027.3	1028.1	1028.8	1029.5	1029.5	1028.8	1028.1	1027.3	1026.7	1025.7
137.5°	1079.1	1079.6	1080.0	1080.5	1080.9	1080.6	1079.5	1078.4	1077.3	1076.2	1075.7
140°	1110.6	1111.1	1111.5	1112.0	1112.4	1112.2	1111.3	1110.4	1109.5	1108.5	1107.9
142.5°	1139.6	1140.2	1140.9	1141.6	1142.2	1142.1	1141.4	1140.7	1140.0	1139.2	1138.5
145°	1184.1	1184.1	1184.1	1184.1	1184.1	1183.9	1183.5	1183.0	1182.5	1182.1	1181.6
147.5°	1217.3	1218.3	1219.4	1220.5	1221.6	1221.8	1221.4	1220.9	1220.5	1219.9	1219.5
150°	1242.2	1242.9	1243.6	1244.2	1244.9	1245.0	1244.6	1244.1	1243.7	1243.2	1242.8
152.5°	1262.0	1263.1	1264.2	1265.2	1266.3	1266.4	1265.6	1264.7	1263.9	1263.1	1262.8
155°	1289.9	1291.2	1292.6	1294.0	1295.3	1295.5	1294.3	1293.2	1292.0	1290.8	1290.7
157.5°	1313.2	1315.0	1316.8	1318.7	1320.4	1320.6	1319.2	1317.9	1316.5	1315.1	1315.4
160°	1328.1	1329.7	1331.4	1333.0	1334.6	1334.7	1333.3	1331.9	1330.6	1329.2	1329.5
162.5°	1342.2	1343.6	1345.1	1346.5	1347.9	1347.9	1346.3	1344.8	1343.2	1341.6	1341.8
165°	1359.2	1360.8	1362.4	1364.1	1365.7	1365.6	1363.7	1361.9	1360.0	1358.2	1358.4
167.5°	1371.5	1373.3	1375.1	1377.0	1378.9	1378.9	1377.0	1375.1	1373.3	1371.5	1371.5
170°	1378.9	1380.7	1382.6	1384.5	1386.3	1386.3	1384.5	1382.6	1380.7	1378.9	1378.9
172.5°	1383.0	1385.1	1387.1	1389.1	1391.2	1391.2	1389.4	1387.6	1385.7	1383.8	1383.7
175°	1389.3	1391.2	1392.9	1394.8	1396.6	1396.8	1395.2	1393.6	1392.0	1390.3	1390.1
177.5°	1391.2	1392.9	1394.8	1396.7	1398.5	1398.6	1397.2	1395.7	1394.3	1392.8	1392.6
180°	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	823.8	823.0	819.1	814.8	809.0	805.2	802.2	800.6	795.7	789.6	785.5
5°	874.7	864.4	853.5	840.2	827.9	815.3	807.4	798.2	786.9	774.3	765.4
7.5°	929.2	909.1	887.4	865.1	843.0	823.2	805.7	790.8	772.8	754.7	742.0
10°	971.0	941.6	911.2	880.1	851.8	825.2	804.7	784.5	763.0	742.2	726.5
12.5°	1009.0	970.4	935.3	897.1	860.9	829.0	799.5	775.8	749.9	727.7	709.8
15°	1057.0	1017.4	975.1	917.0	868.9	828.6	792.7	761.6	730.2	702.9	685.5
17.5°	1102.0	1042.4	985.5	937.0	874.5	824.1	780.3	743.2	708.7	679.8	658.3
20°	1120.6	1062.9	1001.0	939.2	877.8	821.4	770.5	729.5	693.7	660.8	641.1
22.5°	1131.8	1066.4	1001.3	934.9	869.6	811.0	760.7	715.6	676.7	645.6	621.2
25°	1144.9	1066.9	995.2	929.7	863.1	799.5	739.8	692.0	650.0	616.8	590.8
27.5°	1153.4	1061.8	977.0	904.2	836.6	773.4	718.6	667.9	625.3	590.2	562.4
30°	1155.1	1057.7	963.1	884.2	815.6	757.5	699.5	650.9	605.9	568.6	542.7
32.5°	1157.3	1047.7	944.3	860.5	790.2	732.7	680.1	633.7	587.5	550.9	524.4
35°	1148.3	1042.1	915.7	819.4	749.0	693.3	645.9	603.2	557.8	522.2	495.3
37.5°	1109.5	1019.8	886.0	773.0	699.5	647.9	609.2	572.0	530.4	492.0	466.6
40°	1070.4	998.0	863.1	744.9	668.1	615.1	580.2	549.9	509.6	473.7	446.4
42.5°	1012.2	968.2	841.2	715.4	632.5	581.5	552.1	523.6	488.3	451.8	426.1
45°	905.4	911.2	796.5	668.4	583.4	532.1	504.4	484.6	453.3	423.2	396.9
47.5°	771.5	825.8	744.0	618.3	531.5	483.4	459.2	441.9	420.8	391.3	367.3
50°	684.1	761.6	701.9	584.7	499.0	451.2	427.3	413.3	394.8	371.6	348.7
52.5°	603.5	686.8	651.0	547.2	463.8	420.0	396.6	385.1	370.5	348.7	328.0
55°	492.1	576.5	568.3	490.8	410.9	371.6	353.8	340.9	330.9	314.6	298.2
57.5°	398.1	478.0	482.3	427.9	364.3	325.5	310.2	300.4	293.9	281.6	266.4
60°	338.9	412.2	426.6	385.6	330.9	296.8	281.8	273.9	268.8	258.9	247.3
62.5°	289.6	352.1	368.4	338.9	299.0	267.0	255.3	247.7	244.2	235.7	225.4
65°	221.7	273.6	289.3	272.9	252.1	226.4	216.9	210.4	207.3	202.5	195.0
67.5°	166.7	204.6	221.8	210.2	202.7	186.5	180.4	176.9	174.2	170.9	164.6
70°	133.8	161.9	179.7	176.6	170.4	161.9	157.5	155.1	152.3	149.6	144.1
72.5°	107.6	126.9	143.6	145.2	140.1	138.4	134.5	133.5	131.8	128.6	125.6
75°	71.4	84.7	96.3	100.8	102.8	104.5	102.8	102.5	102.1	99.4	97.6
77.5°	46.8	53.9	61.3	68.8	72.1	74.4	74.9	76.2	75.3	73.8	73.0
80°	35.8	37.5	42.7	49.2	54.3	56.4	57.7	58.4	58.1	57.7	56.4
82.5°	26.0	27.5	29.9	34.4	38.7	42.2	43.0	42.8	43.6	43.8	42.7
85°	14.0	14.4	15.1	15.7	18.1	21.8	22.9	23.5	24.3	24.3	22.2
87.5°	8.1	7.3	7.2	6.7	7.0	6.9	8.0	8.9	9.7	9.1	9.5
90°	18.9	15.9	12.9	10.3	7.9	5.6	3.3	1.1	3.3	5.6	7.9
92.5°	22.0	19.8	17.5	16.7	17.3	18.0	18.6	19.3	18.6	18.0	17.3
95°	27.0	24.5	22.0	25.4	34.9	44.3	53.8	63.2	53.8	44.3	34.9
97.5°	66.5	83.1	99.7	110.0	114.3	118.5	122.8	127.0	122.8	118.5	114.3
100°	106.0	142.0	177.8	193.5	188.9	184.3	179.7	175.0	179.7	184.3	188.9
102.5°	146.6	185.8	225.1	243.1	239.7	236.4	233.1	229.8	233.1	236.4	239.7
105°	268.3	289.0	309.8	318.9	316.3	313.8	311.3	308.7	311.3	313.8	316.3
107.5°	409.3	406.1	402.8	400.1	398.1	396.1	394.0	392.0	394.0	396.1	398.1
110°	462.2	459.7	457.1	455.0	453.1	451.2	449.4	447.5	449.4	451.2	453.1



TEST NUMBER: P332294-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	514.4	511.8	509.3	507.2	505.6	503.9	502.2	500.6	502.2	503.9	505.6
115°	590.5	588.4	586.4	584.6	583.3	581.8	580.5	579.2	580.5	581.8	583.3
117.5°	665.5	664.4	663.3	662.0	660.3	658.5	656.8	655.1	656.8	658.5	660.3
120°	713.5	712.7	712.1	710.7	708.6	706.6	704.5	702.4	704.5	706.6	708.6
122.5°	760.4	759.5	758.6	757.3	755.5	753.9	752.2	750.5	752.2	753.9	755.5
125°	827.0	826.0	825.1	823.8	821.9	820.0	818.2	816.4	818.2	820.0	821.9
127.5°	891.3	890.1	889.0	887.5	885.7	883.9	882.0	880.2	882.0	883.9	885.7
130°	930.6	929.6	928.7	927.3	925.5	923.6	921.9	920.0	921.9	923.6	925.5
132.5°	968.2	967.5	966.7	965.5	963.6	961.8	959.9	958.1	959.9	961.8	963.6
135°	1024.8	1024.0	1023.0	1021.8	1020.5	1019.0	1017.7	1016.3	1017.7	1019.0	1020.5
137.5°	1075.2	1074.7	1074.2	1073.1	1071.3	1069.5	1067.8	1066.0	1067.8	1069.5	1071.3
140°	1107.1	1106.4	1105.7	1104.7	1103.3	1102.0	1100.5	1099.2	1100.5	1102.0	1103.3
142.5°	1137.8	1137.1	1136.4	1135.4	1134.0	1132.7	1131.2	1129.9	1131.2	1132.7	1134.0
145°	1181.2	1180.7	1180.3	1179.2	1177.6	1176.0	1174.4	1172.8	1174.4	1176.0	1177.6
147.5°	1219.1	1218.6	1218.2	1217.4	1216.3	1215.3	1214.2	1213.2	1214.2	1215.3	1216.3
150°	1242.2	1241.8	1241.4	1240.8	1240.1	1239.4	1238.7	1238.1	1238.7	1239.4	1240.1
152.5°	1262.6	1262.2	1261.9	1261.7	1261.3	1261.1	1260.7	1260.4	1260.7	1261.1	1261.3
155°	1290.4	1290.1	1289.9	1290.0	1290.5	1290.9	1291.5	1291.9	1291.5	1290.9	1290.5
157.5°	1315.5	1315.8	1316.0	1316.2	1316.2	1316.3	1316.3	1316.3	1316.3	1316.3	1316.2
160°	1329.6	1329.9	1330.1	1330.3	1330.6	1330.8	1331.1	1331.2	1331.1	1330.8	1330.6
162.5°	1342.1	1342.3	1342.6	1342.9	1343.5	1344.2	1344.8	1345.3	1344.8	1344.2	1343.5
165°	1358.6	1358.9	1359.1	1359.6	1360.3	1360.9	1361.6	1362.4	1361.6	1360.9	1360.3
167.5°	1371.5	1371.5	1371.5	1371.9	1372.9	1373.8	1374.7	1375.6	1374.7	1373.8	1372.9
170°	1378.9	1378.9	1378.9	1379.4	1380.3	1381.3	1382.2	1383.0	1382.2	1381.3	1380.3
172.5°	1383.5	1383.3	1383.1	1383.6	1384.7	1385.8	1387.0	1388.0	1387.0	1385.8	1384.7
175°	1389.8	1389.6	1389.4	1389.8	1391.0	1392.1	1393.3	1394.5	1393.3	1392.1	1391.0
177.5°	1392.4	1392.2	1392.0	1392.4	1393.4	1394.3	1395.2	1396.2	1395.2	1394.3	1393.4
180°	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5



TEST NUMBER: P332294-940

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	784.2	780.6	778.2	772.7	769.2	765.4	761.5	763.9	763.7	763.4	763.4
5°	757.9	750.0	742.9	733.6	727.8	720.7	715.2	714.5	715.9	711.1	708.4
7.5°	731.8	721.0	710.9	700.7	689.9	681.3	675.9	673.4	669.9	667.0	663.9
10°	713.5	700.9	690.9	678.3	666.7	656.5	650.0	645.5	643.1	640.7	636.3
12.5°	694.6	682.2	669.6	655.3	644.3	632.4	627.6	622.6	618.0	615.3	609.2
15°	667.0	650.9	637.7	622.6	610.4	598.7	591.9	582.0	580.6	577.2	571.1
17.5°	639.4	622.0	603.6	592.5	578.5	566.5	556.1	552.8	543.0	539.3	534.0
20°	617.5	601.5	587.5	572.7	552.6	541.4	533.2	528.7	520.8	516.0	512.6
22.5°	598.7	582.3	566.1	549.0	532.4	519.8	513.7	506.8	502.6	495.9	492.1
25°	571.8	554.0	534.5	516.0	504.1	494.5	485.0	478.8	472.7	469.6	462.8
27.5°	540.5	521.9	503.7	489.7	475.0	465.6	456.9	451.5	444.1	438.9	435.2
30°	523.3	501.4	485.7	473.1	454.2	445.4	438.9	432.0	426.6	421.2	417.3
32.5°	503.3	483.3	468.4	452.8	438.4	428.7	420.3	414.3	409.7	404.5	400.7
35°	472.0	455.3	439.9	424.2	413.6	403.7	393.8	388.7	384.2	379.4	376.0
37.5°	443.7	428.1	413.5	398.6	385.5	377.4	369.4	365.5	359.5	356.3	352.8
40°	426.2	410.9	395.2	380.8	367.1	361.1	353.8	348.0	342.6	340.2	336.4
42.5°	407.2	391.7	378.5	363.0	351.9	343.5	336.9	330.6	326.5	323.0	320.8
45°	378.8	365.1	352.1	336.8	326.2	319.0	311.5	305.7	301.9	299.5	295.8
47.5°	351.2	337.6	324.4	311.0	300.8	292.6	285.1	281.0	276.1	273.1	270.5
50°	331.3	319.0	305.0	292.7	282.5	274.3	268.1	263.0	258.5	254.8	253.1
52.5°	313.0	299.9	287.8	276.3	265.6	256.2	250.7	245.2	241.9	237.6	235.6
55°	282.8	270.2	259.9	248.6	238.1	230.2	223.4	218.6	215.2	210.4	207.7
57.5°	254.4	243.1	230.9	221.1	210.2	203.6	197.9	191.4	187.3	183.5	180.8
60°	235.3	222.3	211.8	202.5	193.0	184.4	179.3	174.2	169.8	165.9	163.6
62.5°	215.3	204.0	194.0	184.0	175.2	167.7	161.8	157.5	153.6	151.2	148.8
65°	184.8	175.9	165.7	157.5	149.3	143.8	139.0	135.3	132.5	130.8	128.8
67.5°	156.7	148.0	139.1	131.0	125.6	121.4	118.2	115.0	113.7	111.5	110.1
70°	138.3	129.5	121.6	115.5	109.9	106.9	104.9	102.5	101.1	98.4	97.0
72.5°	118.4	112.0	106.3	101.2	96.8	94.1	91.5	88.5	86.3	83.4	81.9
75°	93.3	87.5	83.0	79.5	76.9	73.1	69.4	66.3	65.3	64.2	63.8
77.5°	69.0	65.4	62.2	59.3	55.9	53.1	52.3	51.6	51.5	50.9	50.9
80°	54.3	50.9	48.5	45.1	43.1	43.1	43.1	42.4	42.7	42.7	42.7
82.5°	40.4	37.2	35.9	34.7	34.3	34.6	34.6	34.7	34.5	35.0	34.8
85°	20.9	21.1	21.8	21.5	21.8	21.8	22.6	22.2	22.6	21.8	22.6
87.5°	9.7	11.1	11.9	12.8	13.6	14.0	14.4	14.6	15.1	15.2	15.4
90°	10.3	12.9	15.9	18.9	21.8	24.9	25.8	26.7	27.6	28.5	29.2
92.5°	16.7	17.5	19.8	22.0	24.3	26.5	28.0	29.4	30.9	32.5	33.3
95°	25.4	22.0	24.5	27.0	29.6	32.1	33.7	35.3	36.9	38.5	39.3
97.5°	110.0	99.7	83.1	66.5	49.9	33.3	35.2	37.0	38.9	40.8	41.7
100°	193.5	177.8	142.0	106.0	70.1	34.2	36.0	37.9	39.7	41.6	42.6
102.5°	243.1	225.1	185.8	146.6	107.4	68.1	62.4	56.7	51.0	45.3	42.7
105°	318.9	309.8	289.0	268.3	247.6	226.9	186.1	145.3	104.6	63.8	43.8
107.5°	400.1	402.8	406.1	409.3	412.6	415.9	385.9	356.1	326.2	296.3	266.0
110°	455.0	457.1	459.7	462.2	464.7	467.3	459.7	452.0	444.4	436.8	416.6



TEST NUMBER: P332294-940

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	507.2	509.3	511.8	514.4	516.9	519.4	519.6	519.7	519.9	520.0	516.6
115°	584.6	586.4	588.4	590.5	592.6	594.7	597.0	599.2	601.5	603.9	605.5
117.5°	662.0	663.3	664.4	665.5	666.6	667.6	669.4	671.3	673.2	674.9	676.0
120°	710.7	712.1	712.7	713.5	714.2	714.8	716.7	718.5	720.3	722.2	723.1
122.5°	757.3	758.6	759.5	760.4	761.2	762.1	763.4	764.6	766.0	767.2	767.9
125°	823.8	825.1	826.0	827.0	827.9	828.8	829.3	829.7	830.2	830.6	831.1
127.5°	887.5	889.0	890.1	891.3	892.3	893.4	894.2	894.9	895.6	896.3	896.5
130°	927.3	928.7	929.6	930.6	931.5	932.4	933.4	934.2	935.1	936.1	936.3
132.5°	965.5	966.7	967.5	968.2	968.9	969.7	970.6	971.5	972.5	973.4	973.5
135°	1021.8	1023.0	1024.0	1024.8	1025.7	1026.7	1027.3	1028.1	1028.8	1029.5	1029.5
137.5°	1073.1	1074.2	1074.7	1075.2	1075.7	1076.2	1077.3	1078.4	1079.5	1080.6	1080.9
140°	1104.7	1105.7	1106.4	1107.1	1107.9	1108.5	1109.5	1110.4	1111.3	1112.2	1112.4
142.5°	1135.4	1136.4	1137.1	1137.8	1138.5	1139.2	1140.0	1140.7	1141.4	1142.1	1142.2
145°	1179.2	1180.3	1180.7	1181.2	1181.6	1182.1	1182.5	1183.0	1183.5	1183.9	1184.1
147.5°	1217.4	1218.2	1218.6	1219.1	1219.5	1219.9	1220.5	1220.9	1221.4	1221.8	1221.6
150°	1240.8	1241.4	1241.8	1242.2	1242.8	1243.2	1243.7	1244.1	1244.6	1245.0	1244.9
152.5°	1261.7	1261.9	1262.2	1262.6	1262.8	1263.1	1263.9	1264.7	1265.6	1266.4	1266.3
155°	1290.0	1289.9	1290.1	1290.4	1290.7	1290.8	1292.0	1293.2	1294.3	1295.5	1295.3
157.5°	1316.2	1316.0	1315.8	1315.5	1315.4	1315.1	1316.5	1317.9	1319.2	1320.6	1320.4
160°	1330.3	1330.1	1329.9	1329.6	1329.5	1329.2	1330.6	1331.9	1333.3	1334.7	1334.6
162.5°	1342.9	1342.6	1342.3	1342.1	1341.8	1341.6	1343.2	1344.8	1346.3	1347.9	1347.9
165°	1359.6	1359.1	1358.9	1358.6	1358.4	1358.2	1360.0	1361.9	1363.7	1365.6	1365.7
167.5°	1371.9	1371.5	1371.5	1371.5	1371.5	1371.5	1373.3	1375.1	1377.0	1378.9	1378.9
170°	1379.4	1378.9	1378.9	1378.9	1378.9	1378.9	1380.7	1382.6	1384.5	1386.3	1386.3
172.5°	1383.6	1383.1	1383.3	1383.5	1383.7	1383.8	1385.7	1387.6	1389.4	1391.2	1391.2
175°	1389.8	1389.4	1389.6	1389.8	1390.1	1390.3	1392.0	1393.6	1395.2	1396.8	1396.6
177.5°	1392.4	1392.0	1392.2	1392.4	1392.6	1392.8	1394.3	1395.7	1397.2	1398.6	1398.5
180°	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5



TEST NUMBER: P332294-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	760.1	759.8	760.1	759.0	760.1	759.8	760.1	763.4	763.4	763.7	763.9
5°	707.3	706.9	706.0	702.9	706.0	706.9	707.3	708.4	711.1	715.9	714.5
7.5°	661.2	660.8	657.7	657.8	657.7	660.8	661.2	663.9	667.0	669.9	673.4
10°	633.9	634.3	630.2	627.8	630.2	634.3	633.9	636.3	640.7	643.1	645.5
12.5°	607.4	605.8	602.5	599.9	602.5	605.8	607.4	609.2	615.3	618.0	622.6
15°	572.4	569.0	560.8	561.5	560.8	569.0	572.4	571.1	577.2	580.6	582.0
17.5°	531.2	528.7	528.6	523.8	528.6	528.7	531.2	534.0	539.3	543.0	552.8
20°	507.2	505.5	506.1	501.4	506.1	505.5	507.2	512.6	516.0	520.8	528.7
22.5°	488.3	486.6	483.8	482.2	483.8	486.6	488.3	492.1	495.9	502.6	506.8
25°	460.7	458.0	455.3	457.0	455.3	458.0	460.7	462.8	469.6	472.7	478.8
27.5°	433.1	431.1	428.4	428.0	428.4	431.1	433.1	435.2	438.9	444.1	451.5
30°	415.6	413.6	412.2	410.5	412.2	413.6	415.6	417.3	421.2	426.6	432.0
32.5°	397.9	397.5	395.0	394.7	395.0	397.5	397.9	400.7	404.5	409.7	414.3
35°	374.7	372.6	371.9	372.3	371.9	372.6	374.7	376.0	379.4	384.2	388.7
37.5°	352.6	349.9	348.7	347.4	348.7	349.9	352.6	352.8	356.3	359.5	365.5
40°	336.8	334.0	333.3	332.7	333.3	334.0	336.8	336.4	340.2	342.6	348.0
42.5°	319.0	317.9	317.5	316.3	317.5	317.9	319.0	320.8	323.0	326.5	330.6
45°	294.7	294.4	292.4	293.0	292.4	294.4	294.7	295.8	299.5	301.9	305.7
47.5°	269.2	267.7	266.3	267.2	266.3	267.7	269.2	270.5	273.1	276.1	281.0
50°	251.7	251.0	248.0	248.6	248.0	251.0	251.7	253.1	254.8	258.5	263.0
52.5°	234.3	231.7	230.5	230.1	230.5	231.7	234.3	235.6	237.6	241.9	245.2
55°	205.3	202.2	200.8	200.1	200.8	202.2	205.3	207.7	210.4	215.2	218.6
57.5°	176.8	176.0	175.0	175.7	175.0	176.0	176.8	180.8	183.5	187.3	191.4
60°	160.2	160.2	160.2	159.9	160.2	160.2	160.2	163.6	165.9	169.8	174.2
62.5°	147.3	146.5	146.2	146.7	146.2	146.5	147.3	148.8	151.2	153.6	157.5
65°	127.7	127.4	126.0	125.7	126.0	127.4	127.7	128.8	130.8	132.5	135.3
67.5°	109.2	108.0	107.6	107.1	107.6	108.0	109.2	110.1	111.5	113.7	115.0
70°	95.3	94.6	92.6	92.9	92.6	94.6	95.3	97.0	98.4	101.1	102.5
72.5°	80.3	79.5	79.2	78.6	79.2	79.5	80.3	81.9	83.4	86.3	88.5
75°	63.5	63.2	62.9	64.2	62.9	63.2	63.5	63.8	64.2	65.3	66.3
77.5°	50.9	50.9	51.1	50.6	51.1	50.9	50.9	50.9	50.9	51.5	51.6
80°	42.7	42.7	42.4	42.4	42.4	42.7	42.7	42.7	42.7	42.7	42.4
82.5°	34.2	34.5	34.7	34.2	34.7	34.5	34.2	34.8	35.0	34.5	34.7
85°	22.6	22.2	22.9	22.6	22.9	22.2	22.6	22.6	21.8	22.6	22.2
87.5°	16.1	15.6	15.7	16.1	15.7	15.6	16.1	15.4	15.2	15.1	14.6
90°	29.7	30.1	30.6	31.1	30.6	30.1	29.7	29.2	28.5	27.6	26.7
92.5°	33.5	33.9	34.2	34.4	34.2	33.9	33.5	33.3	32.5	30.9	29.4
95°	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	38.5	36.9	35.3
97.5°	42.0	42.3	42.4	42.7	42.4	42.3	42.0	41.7	40.8	38.9	37.0
100°	42.8	43.1	43.2	43.5	43.2	43.1	42.8	42.6	41.6	39.7	37.9
102.5°	43.1	43.5	44.0	44.3	44.0	43.5	43.1	42.7	45.3	51.0	56.7
105°	44.2	44.7	45.1	45.6	45.1	44.7	44.2	43.8	63.8	104.6	145.3
107.5°	235.3	204.6	173.9	143.2	173.9	204.6	235.3	266.0	296.3	326.2	356.1
110°	383.7	350.7	317.8	284.9	317.8	350.7	383.7	416.6	436.8	444.4	452.0



TEST NUMBER: P332294-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	509.6	502.7	495.7	488.7	495.7	502.7	509.6	516.6	520.0	519.9	519.7
115°	606.4	607.3	608.2	609.1	608.2	607.3	606.4	605.5	603.9	601.5	599.2
117.5°	676.2	676.4	676.5	676.7	676.5	676.4	676.2	676.0	674.9	673.2	671.3
120°	723.1	723.1	723.1	723.1	723.1	723.1	723.1	723.1	722.2	720.3	718.5
122.5°	768.1	768.3	768.6	768.7	768.6	768.3	768.1	767.9	767.2	766.0	764.6
125°	831.5	832.1	832.5	832.9	832.5	832.1	831.5	831.1	830.6	830.2	829.7
127.5°	896.1	895.6	895.2	894.7	895.2	895.6	896.1	896.5	896.3	895.6	894.9
130°	935.9	935.4	935.0	934.5	935.0	935.4	935.9	936.3	936.1	935.1	934.2
132.5°	972.9	972.2	971.6	970.9	971.6	972.2	972.9	973.5	973.4	972.5	971.5
135°	1028.8	1028.1	1027.3	1026.7	1027.3	1028.1	1028.8	1029.5	1029.5	1028.8	1028.1
137.5°	1080.5	1080.0	1079.6	1079.1	1079.6	1080.0	1080.5	1080.9	1080.6	1079.5	1078.4
140°	1112.0	1111.5	1111.1	1110.6	1111.1	1111.5	1112.0	1112.4	1112.2	1111.3	1110.4
142.5°	1141.6	1140.9	1140.2	1139.6	1140.2	1140.9	1141.6	1142.2	1142.1	1141.4	1140.7
145°	1184.1	1184.1	1184.1	1184.1	1184.1	1184.1	1184.1	1184.1	1183.9	1183.5	1183.0
147.5°	1220.5	1219.4	1218.3	1217.3	1218.3	1219.4	1220.5	1221.6	1221.8	1221.4	1220.9
150°	1244.2	1243.6	1242.9	1242.2	1242.9	1243.6	1244.2	1244.9	1245.0	1244.6	1244.1
152.5°	1265.2	1264.2	1263.1	1262.0	1263.1	1264.2	1265.2	1266.3	1266.4	1265.6	1264.7
155°	1294.0	1292.6	1291.2	1289.9	1291.2	1292.6	1294.0	1295.3	1295.5	1294.3	1293.2
157.5°	1318.7	1316.8	1315.0	1313.2	1315.0	1316.8	1318.7	1320.4	1320.6	1319.2	1317.9
160°	1333.0	1331.4	1329.7	1328.1	1329.7	1331.4	1333.0	1334.6	1334.7	1333.3	1331.9
162.5°	1346.5	1345.1	1343.6	1342.2	1343.6	1345.1	1346.5	1347.9	1347.9	1346.3	1344.8
165°	1364.1	1362.4	1360.8	1359.2	1360.8	1362.4	1364.1	1365.7	1365.6	1363.7	1361.9
167.5°	1377.0	1375.1	1373.3	1371.5	1373.3	1375.1	1377.0	1378.9	1378.9	1377.0	1375.1
170°	1384.5	1382.6	1380.7	1378.9	1380.7	1382.6	1384.5	1386.3	1386.3	1384.5	1382.6
172.5°	1389.1	1387.1	1385.1	1383.0	1385.1	1387.1	1389.1	1391.2	1391.2	1389.4	1387.6
175°	1394.8	1392.9	1391.2	1389.3	1391.2	1392.9	1394.8	1396.6	1396.8	1395.2	1393.6
177.5°	1396.7	1394.8	1392.9	1391.2	1392.9	1394.8	1396.7	1398.5	1398.6	1397.2	1395.7
180°	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5



TEST NUMBER: P332294-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	761.5	765.4	769.2	772.7	778.2	780.6	784.2	785.5	789.6	795.7	800.6
5°	715.2	720.7	727.8	733.6	742.9	750.0	757.9	765.4	774.3	786.9	798.2
7.5°	675.9	681.3	689.9	700.7	710.9	721.0	731.8	742.0	754.7	772.8	790.8
10°	650.0	656.5	666.7	678.3	690.9	700.9	713.5	726.5	742.2	763.0	784.5
12.5°	627.6	632.4	644.3	655.3	669.6	682.2	694.6	709.8	727.7	749.9	775.8
15°	591.9	598.7	610.4	622.6	637.7	650.9	667.0	685.5	702.9	730.2	761.6
17.5°	556.1	566.5	578.5	592.5	603.6	622.0	639.4	658.3	679.8	708.7	743.2
20°	533.2	541.4	552.6	572.7	587.5	601.5	617.5	641.1	660.8	693.7	729.5
22.5°	513.7	519.8	532.4	549.0	566.1	582.3	598.7	621.2	645.6	676.7	715.6
25°	485.0	494.5	504.1	516.0	534.5	554.0	571.8	590.8	616.8	650.0	692.0
27.5°	456.9	465.6	475.0	489.7	503.7	521.9	540.5	562.4	590.2	625.3	667.9
30°	438.9	445.4	454.2	473.1	485.7	501.4	523.3	542.7	568.6	605.9	650.9
32.5°	420.3	428.7	438.4	452.8	468.4	483.3	503.3	524.4	550.9	587.5	633.7
35°	393.8	403.7	413.6	424.2	439.9	455.3	472.0	495.3	522.2	557.8	603.2
37.5°	369.4	377.4	385.5	398.6	413.5	428.1	443.7	466.6	492.0	530.4	572.0
40°	353.8	361.1	367.1	380.8	395.2	410.9	426.2	446.4	473.7	509.6	549.9
42.5°	336.9	343.5	351.9	363.0	378.5	391.7	407.2	426.1	451.8	488.3	523.6
45°	311.5	319.0	326.2	336.8	352.1	365.1	378.8	396.9	423.2	453.3	484.6
47.5°	285.1	292.6	300.8	311.0	324.4	337.6	351.2	367.3	391.3	420.8	441.9
50°	268.1	274.3	282.5	292.7	305.0	319.0	331.3	348.7	371.6	394.8	413.3
52.5°	250.7	256.2	265.6	276.3	287.8	299.9	313.0	328.0	348.7	370.5	385.1
55°	223.4	230.2	238.1	248.6	259.9	270.2	282.8	298.2	314.6	330.9	340.9
57.5°	197.9	203.6	210.2	221.1	230.9	243.1	254.4	266.4	281.6	293.9	300.4
60°	179.3	184.4	193.0	202.5	211.8	222.3	235.3	247.3	258.9	268.8	273.9
62.5°	161.8	167.7	175.2	184.0	194.0	204.0	215.3	225.4	235.7	244.2	247.7
65°	139.0	143.8	149.3	157.5	165.7	175.9	184.8	195.0	202.5	207.3	210.4
67.5°	118.2	121.4	125.6	131.0	139.1	148.0	156.7	164.6	170.9	174.2	176.9
70°	104.9	106.9	109.9	115.5	121.6	129.5	138.3	144.1	149.6	152.3	155.1
72.5°	91.5	94.1	96.8	101.2	106.3	112.0	118.4	125.6	128.6	131.8	133.5
75°	69.4	73.1	76.9	79.5	83.0	87.5	93.3	97.6	99.4	102.1	102.5
77.5°	52.3	53.1	55.9	59.3	62.2	65.4	69.0	73.0	73.8	75.3	76.2
80°	43.1	43.1	43.1	45.1	48.5	50.9	54.3	56.4	57.7	58.1	58.4
82.5°	34.6	34.6	34.3	34.7	35.9	37.2	40.4	42.7	43.8	43.6	42.8
85°	22.6	21.8	21.8	21.5	21.8	21.1	20.9	22.2	24.3	24.3	23.5
87.5°	14.4	14.0	13.6	12.8	11.9	11.1	9.7	9.5	9.1	9.7	8.9
90°	25.8	24.9	21.8	18.9	15.9	12.9	10.3	7.9	5.6	3.3	1.1
92.5°	28.0	26.5	24.3	22.0	19.8	17.5	16.7	17.3	18.0	18.6	19.3
95°	33.7	32.1	29.6	27.0	24.5	22.0	25.4	34.9	44.3	53.8	63.2
97.5°	35.2	33.3	49.9	66.5	83.1	99.7	110.0	114.3	118.5	122.8	127.0
100°	36.0	34.2	70.1	106.0	142.0	177.8	193.5	188.9	184.3	179.7	175.0
102.5°	62.4	68.1	107.4	146.6	185.8	225.1	243.1	239.7	236.4	233.1	229.8
105°	186.1	226.9	247.6	268.3	289.0	309.8	318.9	316.3	313.8	311.3	308.7
107.5°	385.9	415.9	412.6	409.3	406.1	402.8	400.1	398.1	396.1	394.0	392.0
110°	459.7	467.3	464.7	462.2	459.7	457.1	455.0	453.1	451.2	449.4	447.5



TEST NUMBER: P332294-940

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	519.6	519.4	516.9	514.4	511.8	509.3	507.2	505.6	503.9	502.2	500.6
115°	597.0	594.7	592.6	590.5	588.4	586.4	584.6	583.3	581.8	580.5	579.2
117.5°	669.4	667.6	666.6	665.5	664.4	663.3	662.0	660.3	658.5	656.8	655.1
120°	716.7	714.8	714.2	713.5	712.7	712.1	710.7	708.6	706.6	704.5	702.4
122.5°	763.4	762.1	761.2	760.4	759.5	758.6	757.3	755.5	753.9	752.2	750.5
125°	829.3	828.8	827.9	827.0	826.0	825.1	823.8	821.9	820.0	818.2	816.4
127.5°	894.2	893.4	892.3	891.3	890.1	889.0	887.5	885.7	883.9	882.0	880.2
130°	933.4	932.4	931.5	930.6	929.6	928.7	927.3	925.5	923.6	921.9	920.0
132.5°	970.6	969.7	968.9	968.2	967.5	966.7	965.5	963.6	961.8	959.9	958.1
135°	1027.3	1026.7	1025.7	1024.8	1024.0	1023.0	1021.8	1020.5	1019.0	1017.7	1016.3
137.5°	1077.3	1076.2	1075.7	1075.2	1074.7	1074.2	1073.1	1071.3	1069.5	1067.8	1066.0
140°	1109.5	1108.5	1107.9	1107.1	1106.4	1105.7	1104.7	1103.3	1102.0	1100.5	1099.2
142.5°	1140.0	1139.2	1138.5	1137.8	1137.1	1136.4	1135.4	1134.0	1132.7	1131.2	1129.9
145°	1182.5	1182.1	1181.6	1181.2	1180.7	1180.3	1179.2	1177.6	1176.0	1174.4	1172.8
147.5°	1220.5	1219.9	1219.5	1219.1	1218.6	1218.2	1217.4	1216.3	1215.3	1214.2	1213.2
150°	1243.7	1243.2	1242.8	1242.2	1241.8	1241.4	1240.8	1240.1	1239.4	1238.7	1238.1
152.5°	1263.9	1263.1	1262.8	1262.6	1262.2	1261.9	1261.7	1261.3	1261.1	1260.7	1260.4
155°	1292.0	1290.8	1290.7	1290.4	1290.1	1289.9	1290.0	1290.5	1290.9	1291.5	1291.9
157.5°	1316.5	1315.1	1315.4	1315.5	1315.8	1316.0	1316.2	1316.2	1316.3	1316.3	1316.3
160°	1330.6	1329.2	1329.5	1329.6	1329.9	1330.1	1330.3	1330.6	1330.8	1331.1	1331.2
162.5°	1343.2	1341.6	1341.8	1342.1	1342.3	1342.6	1342.9	1343.5	1344.2	1344.8	1345.3
165°	1360.0	1358.2	1358.4	1358.6	1358.9	1359.1	1359.6	1360.3	1360.9	1361.6	1362.4
167.5°	1373.3	1371.5	1371.5	1371.5	1371.5	1371.5	1371.9	1372.9	1373.8	1374.7	1375.6
170°	1380.7	1378.9	1378.9	1378.9	1378.9	1378.9	1379.4	1380.3	1381.3	1382.2	1383.0
172.5°	1385.7	1383.8	1383.7	1383.5	1383.3	1383.1	1383.6	1384.7	1385.8	1387.0	1388.0
175°	1392.0	1390.3	1390.1	1389.8	1389.6	1389.4	1389.8	1391.0	1392.1	1393.3	1394.5
177.5°	1394.3	1392.8	1392.6	1392.4	1392.2	1392.0	1392.4	1393.4	1394.3	1395.2	1396.2
180°	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5



TEST NUMBER: P332294-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	802.2	805.2	809.0	814.8	819.1	823.0	823.8	824.9	827.6	832.2	835.8
5°	807.4	815.3	827.9	840.2	853.5	864.4	874.7	881.9	888.7	903.0	914.6
7.5°	805.7	823.2	843.0	865.1	887.4	909.1	929.2	947.2	965.1	986.0	1009.8
10°	804.7	825.2	851.8	880.1	911.2	941.6	971.0	993.9	1020.6	1044.5	1074.9
12.5°	799.5	829.0	860.9	897.1	935.3	970.4	1009.0	1040.6	1071.0	1105.6	1140.9
15°	792.7	828.6	868.9	917.0	975.1	1017.4	1057.0	1112.1	1149.6	1187.2	1237.8
17.5°	780.3	824.1	874.5	937.0	985.5	1042.4	1102.0	1145.5	1196.1	1249.0	1294.8
20°	770.5	821.4	877.8	939.2	1001.0	1062.9	1120.6	1172.5	1224.8	1285.9	1323.5
22.5°	760.7	811.0	869.6	934.9	1001.3	1066.4	1131.8	1192.8	1251.5	1313.2	1361.2
25°	739.8	799.5	863.1	929.7	995.2	1066.9	1144.9	1212.8	1285.6	1349.1	1394.5
27.5°	718.6	773.4	836.6	904.2	977.0	1061.8	1153.4	1230.7	1303.6	1349.1	1363.3
30°	699.5	757.5	815.6	884.2	963.1	1057.7	1155.1	1243.6	1303.3	1323.1	1308.4
32.5°	680.1	732.7	790.2	860.5	944.3	1047.7	1157.3	1235.9	1271.9	1256.8	1196.9
35°	645.9	693.3	749.0	819.4	915.7	1042.1	1148.3	1201.6	1192.7	1107.2	994.5
37.5°	609.2	647.9	699.5	773.0	886.0	1019.8	1109.5	1117.3	1040.4	909.4	779.2
40°	580.2	615.1	668.1	744.9	863.1	998.0	1070.4	1038.7	919.4	773.6	664.9
42.5°	552.1	581.5	632.5	715.4	841.2	968.2	1012.2	943.0	805.5	667.5	568.8
45°	504.4	532.1	583.4	668.4	796.5	911.2	905.4	785.2	647.6	536.5	454.6
47.5°	459.2	483.4	531.5	618.3	744.0	825.8	771.5	643.6	526.8	437.8	379.3
50°	427.3	451.2	499.0	584.7	701.9	761.6	684.1	560.8	453.9	380.1	333.7
52.5°	396.6	420.0	463.8	547.2	651.0	686.8	603.5	489.2	400.1	336.4	296.5
55°	353.8	371.6	410.9	490.8	568.3	576.5	492.1	396.5	323.1	278.7	251.4
57.5°	310.2	325.5	364.3	427.9	482.3	478.0	398.1	315.4	265.9	232.9	213.1
60°	281.8	296.8	330.9	385.6	426.6	412.2	338.9	272.2	229.9	205.6	189.9
62.5°	255.3	267.0	299.0	338.9	368.4	352.1	289.6	234.5	200.9	180.5	168.0
65°	216.9	226.4	252.1	272.9	289.3	273.6	221.7	183.4	159.2	144.8	136.3
67.5°	180.4	186.5	202.7	210.2	221.8	204.6	166.7	141.1	127.2	115.2	109.2
70°	157.5	161.9	170.4	176.6	179.7	161.9	133.8	115.1	103.5	95.0	91.2
72.5°	134.5	138.4	140.1	145.2	143.6	126.9	107.6	92.7	84.4	78.6	73.7
75°	102.8	104.5	102.8	100.8	96.3	84.7	71.4	63.8	57.7	55.0	53.3
77.5°	74.9	74.4	72.1	68.8	61.3	53.9	46.8	44.2	41.6	40.1	39.6
80°	57.7	56.4	54.3	49.2	42.7	37.5	35.8	34.2	33.2	31.4	31.1
82.5°	43.0	42.2	38.7	34.4	29.9	27.5	26.0	25.4	24.3	23.5	23.5
85°	22.9	21.8	18.1	15.7	15.1	14.4	14.0	14.0	12.7	12.3	12.3
87.5°	8.0	6.9	7.0	6.7	7.2	7.3	8.1	8.2	8.6	9.0	8.6
90°	3.3	5.6	7.9	10.3	12.9	15.9	18.9	21.8	24.9	25.8	26.7
92.5°	18.6	18.0	17.3	16.7	17.5	19.8	22.0	24.3	26.5	28.0	29.4
95°	53.8	44.3	34.9	25.4	22.0	24.5	27.0	29.6	32.1	33.7	35.3
97.5°	122.8	118.5	114.3	110.0	99.7	83.1	66.5	49.9	33.3	35.2	37.0
100°	179.7	184.3	188.9	193.5	177.8	142.0	106.0	70.1	34.2	36.0	37.9
102.5°	233.1	236.4	239.7	243.1	225.1	185.8	146.6	107.4	68.1	62.4	56.7
105°	311.3	313.8	316.3	318.9	309.8	289.0	268.3	247.6	226.9	186.1	145.3
107.5°	394.0	396.1	398.1	400.1	402.8	406.1	409.3	412.6	415.9	385.9	356.1
110°	449.4	451.2	453.1	455.0	457.1	459.7	462.2	464.7	467.3	459.7	452.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	502.2	503.9	505.6	507.2	509.3	511.8	514.4	516.9	519.4	519.6	519.7
115°	580.5	581.8	583.3	584.6	586.4	588.4	590.5	592.6	594.7	597.0	599.2
117.5°	656.8	658.5	660.3	662.0	663.3	664.4	665.5	666.6	667.6	669.4	671.3
120°	704.5	706.6	708.6	710.7	712.1	712.7	713.5	714.2	714.8	716.7	718.5
122.5°	752.2	753.9	755.5	757.3	758.6	759.5	760.4	761.2	762.1	763.4	764.6
125°	818.2	820.0	821.9	823.8	825.1	826.0	827.0	827.9	828.8	829.3	829.7
127.5°	882.0	883.9	885.7	887.5	889.0	890.1	891.3	892.3	893.4	894.2	894.9
130°	921.9	923.6	925.5	927.3	928.7	929.6	930.6	931.5	932.4	933.4	934.2
132.5°	959.9	961.8	963.6	965.5	966.7	967.5	968.2	968.9	969.7	970.6	971.5
135°	1017.7	1019.0	1020.5	1021.8	1023.0	1024.0	1024.8	1025.7	1026.7	1027.3	1028.1
137.5°	1067.8	1069.5	1071.3	1073.1	1074.2	1074.7	1075.2	1075.7	1076.2	1077.3	1078.4
140°	1100.5	1102.0	1103.3	1104.7	1105.7	1106.4	1107.1	1107.9	1108.5	1109.5	1110.4
142.5°	1131.2	1132.7	1134.0	1135.4	1136.4	1137.1	1137.8	1138.5	1139.2	1140.0	1140.7
145°	1174.4	1176.0	1177.6	1179.2	1180.3	1180.7	1181.2	1181.6	1182.1	1182.5	1183.0
147.5°	1214.2	1215.3	1216.3	1217.4	1218.2	1218.6	1219.1	1219.5	1219.9	1220.5	1220.9
150°	1238.7	1239.4	1240.1	1240.8	1241.4	1241.8	1242.2	1242.8	1243.2	1243.7	1244.1
152.5°	1260.7	1261.1	1261.3	1261.7	1261.9	1262.2	1262.6	1262.8	1263.1	1263.9	1264.7
155°	1291.5	1290.9	1290.5	1290.0	1289.9	1290.1	1290.4	1290.7	1290.8	1292.0	1293.2
157.5°	1316.3	1316.3	1316.2	1316.2	1316.0	1315.8	1315.5	1315.4	1315.1	1316.5	1317.9
160°	1331.1	1330.8	1330.6	1330.3	1330.1	1329.9	1329.6	1329.5	1329.2	1330.6	1331.9
162.5°	1344.8	1344.2	1343.5	1342.9	1342.6	1342.3	1342.1	1341.8	1341.6	1343.2	1344.8
165°	1361.6	1360.9	1360.3	1359.6	1359.1	1358.9	1358.6	1358.4	1358.2	1360.0	1361.9
167.5°	1374.7	1373.8	1372.9	1371.9	1371.5	1371.5	1371.5	1371.5	1371.5	1373.3	1375.1
170°	1382.2	1381.3	1380.3	1379.4	1378.9	1378.9	1378.9	1378.9	1378.9	1380.7	1382.6
172.5°	1387.0	1385.8	1384.7	1383.6	1383.1	1383.3	1383.5	1383.7	1383.8	1385.7	1387.6
175°	1393.3	1392.1	1391.0	1389.8	1389.4	1389.6	1389.8	1390.1	1390.3	1392.0	1393.6
177.5°	1395.2	1394.3	1393.4	1392.4	1392.0	1392.2	1392.4	1392.6	1392.8	1394.3	1395.7
180°	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	841.6	841.6	842.7	846.8	847.3	850.9	849.7
5°	924.9	931.4	933.8	944.1	950.2	952.9	947.4
7.5°	1026.8	1045.1	1053.8	1064.5	1074.0	1076.9	1069.4
10°	1101.2	1120.3	1136.3	1146.2	1155.5	1161.5	1169.5
12.5°	1173.0	1196.5	1211.7	1225.7	1235.2	1243.0	1244.3
15°	1251.1	1286.6	1313.6	1333.4	1343.3	1348.4	1346.4
17.5°	1329.8	1362.7	1382.0	1402.1	1415.9	1416.6	1417.0
20°	1374.4	1406.5	1428.7	1443.7	1459.1	1458.4	1461.8
22.5°	1404.2	1429.4	1446.4	1457.3	1462.6	1460.0	1460.7
25°	1418.1	1425.6	1422.5	1405.1	1400.7	1384.6	1387.3
27.5°	1346.2	1310.7	1274.0	1226.6	1189.4	1159.6	1161.1
30°	1248.7	1185.8	1114.1	1054.0	1000.1	985.0	952.9
32.5°	1112.3	1018.1	934.1	878.1	831.7	819.1	791.1
35°	881.2	789.6	703.2	651.3	630.8	602.2	601.8
37.5°	684.9	604.3	558.7	519.7	499.3	481.9	480.2
40°	576.2	513.4	478.8	450.8	430.7	417.7	414.6
42.5°	500.2	449.4	417.1	399.8	384.2	377.6	372.6
45°	408.5	374.3	351.8	336.1	328.9	323.8	321.0
47.5°	341.7	318.8	303.4	293.0	287.1	281.8	283.2
50°	305.3	286.6	275.3	265.4	260.9	257.2	257.5
52.5°	276.1	259.2	250.1	243.0	237.5	234.8	233.4
55°	234.3	223.7	214.5	209.4	206.3	202.5	201.5
57.5°	199.8	191.6	184.1	178.3	177.6	174.0	174.4
60°	176.9	170.0	163.9	160.9	158.5	155.4	156.4
62.5°	158.1	152.3	146.7	144.2	141.8	139.6	140.0
65°	129.5	123.9	120.6	119.2	118.2	117.2	116.1
67.5°	103.2	99.8	97.6	94.7	92.6	92.3	91.2
70°	86.8	82.3	78.6	74.8	73.7	73.4	73.7
72.5°	69.6	66.7	65.7	63.8	63.7	62.8	63.4
75°	52.3	51.3	50.6	49.2	49.2	49.2	49.2
77.5°	38.5	37.9	37.5	37.2	36.9	36.4	36.4
80°	30.1	29.7	29.1	29.1	28.7	29.1	28.7
82.5°	22.6	22.6	21.9	21.9	21.6	21.4	21.6
85°	11.6	11.2	11.9	11.2	11.6	11.0	11.6
87.5°	8.8	9.0	8.8	8.9	8.7	9.4	8.9
90°	27.6	28.5	29.2	29.7	30.1	30.6	31.1
92.5°	30.9	32.5	33.3	33.5	33.9	34.2	34.4
95°	36.9	38.5	39.3	39.3	39.3	39.3	39.3
97.5°	38.9	40.8	41.7	42.0	42.3	42.4	42.7
100°	39.7	41.6	42.6	42.8	43.1	43.2	43.5
102.5°	51.0	45.3	42.7	43.1	43.5	44.0	44.3
105°	104.6	63.8	43.8	44.2	44.7	45.1	45.6
107.5°	326.2	296.3	266.0	235.3	204.6	173.9	143.2
110°	444.4	436.8	416.6	383.7	350.7	317.8	284.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	519.9	520.0	516.6	509.6	502.7	495.7	488.7
115°	601.5	603.9	605.5	606.4	607.3	608.2	609.1
117.5°	673.2	674.9	676.0	676.2	676.4	676.5	676.7
120°	720.3	722.2	723.1	723.1	723.1	723.1	723.1
122.5°	766.0	767.2	767.9	768.1	768.3	768.6	768.7
125°	830.2	830.6	831.1	831.5	832.1	832.5	832.9
127.5°	895.6	896.3	896.5	896.1	895.6	895.2	894.7
130°	935.1	936.1	936.3	935.9	935.4	935.0	934.5
132.5°	972.5	973.4	973.5	972.9	972.2	971.6	970.9
135°	1028.8	1029.5	1029.5	1028.8	1028.1	1027.3	1026.7
137.5°	1079.5	1080.6	1080.9	1080.5	1080.0	1079.6	1079.1
140°	1111.3	1112.2	1112.4	1112.0	1111.5	1111.1	1110.6
142.5°	1141.4	1142.1	1142.2	1141.6	1140.9	1140.2	1139.6
145°	1183.5	1183.9	1184.1	1184.1	1184.1	1184.1	1184.1
147.5°	1221.4	1221.8	1221.6	1220.5	1219.4	1218.3	1217.3
150°	1244.6	1245.0	1244.9	1244.2	1243.6	1242.9	1242.2
152.5°	1265.6	1266.4	1266.3	1265.2	1264.2	1263.1	1262.0
155°	1294.3	1295.5	1295.3	1294.0	1292.6	1291.2	1289.9
157.5°	1319.2	1320.6	1320.4	1318.7	1316.8	1315.0	1313.2
160°	1333.3	1334.7	1334.6	1333.0	1331.4	1329.7	1328.1
162.5°	1346.3	1347.9	1347.9	1346.5	1345.1	1343.6	1342.2
165°	1363.7	1365.6	1365.7	1364.1	1362.4	1360.8	1359.2
167.5°	1377.0	1378.9	1378.9	1377.0	1375.1	1373.3	1371.5
170°	1384.5	1386.3	1386.3	1384.5	1382.6	1380.7	1378.9
172.5°	1389.4	1391.2	1391.2	1389.1	1387.1	1385.1	1383.0
175°	1395.2	1396.8	1396.6	1394.8	1392.9	1391.2	1389.3
177.5°	1397.2	1398.6	1398.5	1396.7	1394.8	1392.9	1391.2
180°	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5

(END OF REPORT)