

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: P332138-940

Luminaire Tested: **S123DIW-S560D1320U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332138-940
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: S123DIW-S560D1320U940-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1320 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6838.2 lumens
Efficiency: N/A
Efficacy: 127.1 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

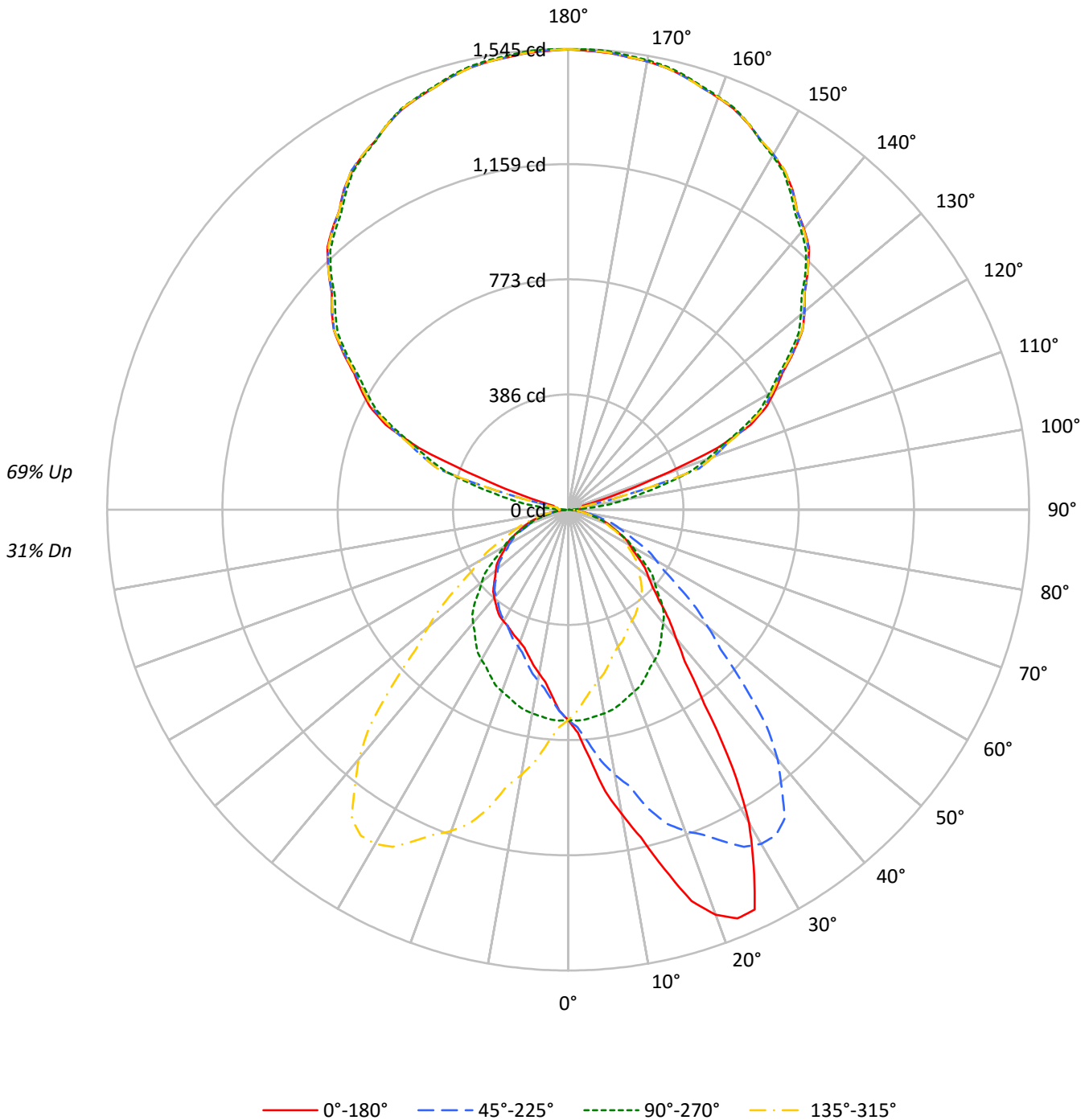
Input Watts (W): 53.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	35	34	33	27
2	85	78	73	68	77	71	66	62	56	53	50	43	41	39	31	29	28	23
3	78	69	62	56	70	62	56	52	50	45	42	38	35	33	27	25	24	19
4	71	61	53	48	64	55	49	44	44	39	36	34	31	28	24	22	21	17
5	65	54	46	41	59	49	42	37	39	35	31	30	27	24	22	20	18	14
6	60	49	41	35	54	44	37	32	35	31	27	27	24	21	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	21	19	18	16	14	11
8	51	40	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	19	21	17	15	15	13	11	9
10	45	33	26	21	40	30	24	20	24	20	17	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7587	7587	7587	7587
5°	9048	7621	6753	7621
10°	11326	7582	6099	7582
15°	13891	7520	5678	7520
20°	16549	7425	5407	7425
25°	17570	7310	5346	7310
30°	15060	7225	5374	7225
35°	10474	7104	5430	7104
40°	7888	6962	5413	6962
45°	6550	6753	5345	6753
50°	5868	6325	5297	6325
55°	5485	5864	5230	5864
60°	5147	5382	5175	5382
65°	4834	4905	5010	4905
70°	4535	4365	4771	4365
75°	4059	3818	4375	3818
80°	3552	3137	3769	3137
85°	2791	2285	2532	2285



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	1.0
10°-20°	222.7	3.3
20°-30°	373.7	5.5
30°-40°	423.1	6.2
40°-50°	379.5	5.5
50°-60°	306.2	4.5
60°-70°	213.4	3.1
70°-80°	112.2	1.6
80°-90°	31.7	0.5
90°-100°	56.1	0.8
100°-110°	267.4	3.9
110°-120°	642.3	9.4
120°-130°	818.0	12.0
130°-140°	874.0	12.8
140°-150°	817.3	12.0
150°-160°	659.2	9.6
160°-170°	425.5	6.2
170°-180°	146.6	2.1
0°-30°	665.8	9.7
0°-40°	1088.9	15.9
0°-60°	1774.6	26.0
0°-90°	2131.8	31.2
90°-120°	965.9	14.1
90°-150°	3475.0	50.8
90°-180°	4706.0	68.8
0°-180°	6838.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	705	705	705	705	705	
5°	837	705	625	705	837	87
15°	1246	675	510	675	1246	360
25°	1479	616	450	616	1479	649
35°	797	541	413	541	797	518
45°	430	444	351	444	430	340
55°	292	312	279	312	292	262
65°	190	193	197	193	190	189
75°	98	92	105	92	98	105
85°	23	18	20	18	23	28
90°	34	1	34	1	34	17
95°	44	70	44	70	44	36
105°	50	342	50	342	50	115
115°	674	641	674	641	674	623
125°	922	904	922	904	922	823
135°	1136	1125	1136	1125	1136	876
145°	1310	1298	1310	1298	1310	818
155°	1428	1430	1428	1430	1428	658
165°	1504	1508	1504	1508	1504	425
175°	1538	1543	1538	1543	1538	146
180°	1543	1543	1543	1543	1543	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	748.1	747.5	746.2	747.3	745.0	742.1	741.8	739.0	731.1	730.6	728.4
5°	837.4	834.6	834.4	834.0	829.2	822.7	810.4	809.4	793.0	784.8	774.9
7.5°	953.1	954.6	949.6	945.2	930.6	921.0	907.8	890.9	870.8	850.3	836.7
10°	1036.2	1047.4	1033.4	1023.9	1015.0	998.3	978.8	954.6	930.3	902.0	880.5
12.5°	1125.2	1130.8	1128.0	1118.9	1105.2	1079.7	1045.2	1018.5	996.1	949.0	929.9
15°	1246.5	1267.4	1254.1	1223.3	1224.1	1199.8	1154.7	1105.2	1078.9	1037.5	981.1
17.5°	1375.8	1378.4	1372.7	1347.1	1330.0	1296.7	1255.1	1207.6	1154.3	1104.4	1044.6
20°	1444.7	1442.6	1430.7	1417.3	1387.9	1362.0	1316.5	1263.6	1195.3	1146.1	1080.9
22.5°	1482.9	1479.4	1473.8	1462.7	1438.2	1410.3	1369.6	1311.7	1246.7	1178.9	1103.6
25°	1479.4	1483.9	1484.6	1481.5	1473.0	1456.3	1424.2	1378.0	1313.1	1226.1	1147.5
27.5°	1345.6	1351.8	1370.1	1386.3	1404.4	1422.8	1420.4	1397.5	1349.5	1274.3	1178.2
30°	1211.7	1198.0	1231.9	1274.5	1303.6	1354.8	1383.5	1385.2	1358.3	1293.7	1200.1
32.5°	1025.9	1041.0	1055.9	1108.4	1171.9	1229.4	1286.5	1332.5	1337.7	1294.8	1212.9
35°	797.1	815.9	843.2	870.6	938.9	997.6	1098.0	1185.4	1255.1	1264.3	1214.1
37.5°	642.3	651.7	668.9	696.2	740.9	810.7	888.3	998.8	1099.7	1174.8	1178.1
40°	561.4	564.2	583.6	604.5	640.7	698.0	768.1	865.8	986.7	1091.5	1135.2
42.5°	500.8	506.8	515.1	535.1	563.9	607.1	672.2	753.0	863.7	984.4	1069.9
45°	430.3	437.1	442.3	455.6	476.1	505.1	550.5	624.3	708.6	833.3	948.4
47.5°	383.7	384.2	388.1	398.1	412.1	433.9	466.0	513.4	590.8	691.9	810.1
50°	350.4	355.9	357.2	365.1	376.0	392.1	418.7	459.0	522.5	611.4	720.0
52.5°	326.9	328.5	332.3	338.0	347.6	360.1	383.2	414.7	464.6	540.3	640.2
55°	292.3	292.3	296.1	300.5	306.0	317.3	332.6	355.9	393.8	452.5	535.2
57.5°	260.4	262.1	264.7	266.1	270.7	278.2	291.1	308.7	337.0	382.2	447.9
60°	239.1	242.1	241.8	244.5	248.6	254.4	265.4	279.7	305.0	341.2	396.5
62.5°	220.5	220.3	220.3	223.5	227.6	233.1	240.2	252.6	274.1	306.2	353.3
65°	189.8	189.2	191.6	193.7	195.0	199.1	204.6	215.5	229.9	253.8	290.3
67.5°	162.7	160.7	162.0	162.7	165.1	168.3	173.3	180.1	191.5	210.7	238.3
70°	144.1	142.4	142.0	142.8	144.8	147.2	151.0	157.5	168.0	183.4	203.6
72.5°	125.0	123.9	123.8	125.3	126.3	127.8	130.5	136.4	144.8	156.3	175.1
75°	97.6	97.6	97.6	98.0	99.1	100.4	102.5	105.5	112.0	120.2	132.9
77.5°	73.2	73.1	72.8	72.7	74.2	74.8	75.3	78.1	81.8	87.3	96.5
80°	57.3	55.6	56.4	57.3	58.1	58.4	59.4	60.1	63.2	66.3	72.8
82.5°	42.6	41.2	41.3	42.9	43.1	43.3	44.4	45.4	46.5	49.3	52.8
85°	22.6	22.6	22.9	22.9	23.2	22.9	23.9	24.3	24.3	25.9	28.0
87.5°	15.1	14.4	14.6	14.8	14.4	14.5	14.6	14.6	14.7	14.8	14.4
90°	34.4	33.9	33.3	32.9	32.4	31.6	30.6	29.5	28.5	27.6	24.2
92.5°	38.1	37.7	37.5	37.2	36.8	35.8	34.2	32.6	30.9	29.3	26.8
95°	43.6	43.6	43.6	43.6	43.6	42.7	40.9	39.1	37.4	35.6	32.7
97.5°	47.3	47.0	46.7	46.5	46.2	45.0	43.1	41.0	39.0	36.9	55.3
100°	48.2	47.9	47.6	47.3	47.2	46.0	44.0	41.9	39.9	37.8	77.6
102.5°	49.0	48.6	48.2	47.7	47.3	50.2	56.4	62.8	69.1	75.4	118.9
105°	50.5	49.9	49.4	49.0	48.4	70.7	115.8	160.9	206.0	251.1	274.0
107.5°	158.5	192.4	226.4	260.5	294.4	328.0	361.1	394.1	427.1	460.2	456.6
110°	315.3	351.8	388.2	424.6	461.0	483.5	491.9	500.2	508.7	517.1	514.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	541.0	548.7	556.3	564.0	571.8	575.5	575.3	575.2	575.1	574.9	572.1
115°	674.2	673.2	672.2	671.1	670.1	668.3	665.8	663.3	660.7	658.2	655.9
117.5°	748.9	748.8	748.5	748.3	748.1	747.0	744.9	743.0	740.9	738.9	737.7
120°	800.3	800.3	800.3	800.3	800.3	799.3	797.3	795.2	793.2	791.1	790.4
122.5°	850.8	850.6	850.3	850.2	850.0	849.2	847.7	846.3	844.9	843.5	842.5
125°	921.9	921.3	920.9	920.3	919.8	919.3	918.8	918.3	917.7	917.3	916.2
127.5°	990.2	990.7	991.2	991.8	992.2	992.1	991.2	990.4	989.6	988.8	987.6
130°	1034.2	1034.7	1035.3	1035.7	1036.3	1036.0	1035.0	1033.9	1033.0	1031.9	1030.9
132.5°	1074.6	1075.3	1076.0	1076.7	1077.5	1077.3	1076.3	1075.2	1074.2	1073.2	1072.4
135°	1136.3	1137.0	1137.8	1138.5	1139.3	1139.3	1138.5	1137.8	1137.0	1136.3	1135.2
137.5°	1194.3	1194.8	1195.3	1195.8	1196.3	1196.0	1194.7	1193.6	1192.3	1191.1	1190.5
140°	1229.1	1229.7	1230.1	1230.7	1231.2	1230.9	1229.9	1228.9	1227.9	1226.8	1226.1
142.5°	1261.2	1261.9	1262.7	1263.4	1264.1	1264.1	1263.2	1262.4	1261.6	1260.8	1260.0
145°	1310.5	1310.5	1310.5	1310.5	1310.5	1310.3	1309.7	1309.3	1308.8	1308.2	1307.8
147.5°	1347.2	1348.4	1349.6	1350.8	1351.9	1352.3	1351.7	1351.2	1350.8	1350.2	1349.7
150°	1374.8	1375.6	1376.3	1377.1	1377.8	1378.0	1377.4	1376.9	1376.4	1375.9	1375.4
152.5°	1396.8	1397.9	1399.1	1400.3	1401.5	1401.6	1400.7	1399.7	1398.8	1397.9	1397.6
155°	1427.5	1429.1	1430.6	1432.1	1433.6	1433.8	1432.4	1431.2	1429.9	1428.6	1428.4
157.5°	1453.4	1455.4	1457.4	1459.4	1461.3	1461.6	1460.1	1458.6	1457.0	1455.5	1455.7
160°	1469.9	1471.7	1473.5	1475.2	1477.0	1477.2	1475.7	1474.1	1472.6	1471.1	1471.3
162.5°	1485.5	1487.1	1488.7	1490.2	1491.8	1491.7	1490.0	1488.3	1486.6	1484.8	1485.1
165°	1504.3	1506.1	1507.9	1509.7	1511.4	1511.4	1509.3	1507.3	1505.2	1503.2	1503.4
167.5°	1517.9	1519.9	1522.0	1523.9	1526.0	1526.0	1523.9	1522.0	1519.9	1517.9	1517.9
170°	1526.1	1528.1	1530.2	1532.2	1534.3	1534.3	1532.2	1530.2	1528.1	1526.1	1526.1
172.5°	1530.7	1532.9	1535.2	1537.4	1539.6	1539.8	1537.8	1535.7	1533.7	1531.6	1531.4
175°	1537.6	1539.6	1541.7	1543.7	1545.7	1545.9	1544.1	1542.3	1540.5	1538.7	1538.5
177.5°	1539.6	1541.7	1543.7	1545.8	1547.8	1548.0	1546.4	1544.7	1543.1	1541.5	1541.2
180°	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	726.7	724.6	722.4	718.5	715.2	710.6	709.3	707.7	702.8	698.3	695.1
5°	771.2	762.9	751.0	740.0	731.2	719.3	712.4	705.3	695.0	685.8	678.2
7.5°	817.6	801.5	782.9	762.9	744.1	726.0	711.5	698.6	684.2	670.6	660.0
10°	854.5	831.3	805.3	777.3	753.4	730.1	710.7	693.7	675.2	659.2	645.8
12.5°	896.5	862.1	826.3	792.3	764.0	731.8	708.3	686.5	665.7	646.3	631.3
15°	946.4	902.7	860.3	813.5	770.4	730.1	702.1	674.8	650.6	630.8	611.6
17.5°	991.7	942.2	886.4	829.5	777.6	729.8	690.5	659.7	629.4	605.1	586.0
20°	1017.4	961.0	897.9	838.7	781.4	728.1	685.1	648.2	615.5	589.8	568.3
22.5°	1039.6	973.6	908.2	845.1	781.1	723.7	675.0	637.0	601.5	576.4	553.6
25°	1062.5	983.6	918.0	843.9	772.5	713.1	658.4	615.5	579.9	550.5	527.0
27.5°	1082.2	982.9	905.1	825.4	759.0	699.5	641.1	594.9	557.2	525.3	501.4
30°	1095.3	984.3	891.7	812.8	745.9	684.4	627.7	581.3	541.6	509.2	486.7
32.5°	1103.5	983.5	879.4	795.3	725.1	670.7	613.2	565.2	524.4	492.6	470.8
35°	1108.2	977.4	858.3	759.2	691.6	638.6	590.5	540.6	497.9	468.2	443.6
37.5°	1098.7	964.8	833.7	724.3	650.3	598.2	557.7	515.2	474.4	441.7	420.4
40°	1083.6	956.6	814.5	699.8	621.9	571.7	537.3	495.5	455.2	424.2	404.4
42.5°	1055.0	940.0	793.5	672.4	592.4	542.2	510.4	475.6	437.5	408.3	388.5
45°	985.0	903.7	762.0	631.5	548.8	497.0	469.0	443.6	409.1	380.8	363.7
47.5°	887.8	849.1	716.3	588.3	503.4	453.4	424.3	403.9	378.7	355.9	339.5
50°	820.4	804.3	685.5	558.7	473.0	424.2	396.2	377.7	359.6	336.7	321.7
52.5°	742.4	752.3	649.3	528.2	442.1	394.1	367.7	353.1	336.7	317.9	304.8
55°	632.8	668.7	587.1	476.8	396.2	350.4	325.5	312.5	302.9	288.9	277.7
57.5°	530.2	575.8	519.7	423.8	351.0	311.6	287.7	273.5	267.3	260.0	251.2
60°	469.2	514.3	471.6	388.3	320.7	283.1	262.0	250.0	243.9	238.7	231.2
62.5°	414.9	460.5	424.6	352.2	290.9	256.1	237.6	226.0	221.1	218.5	212.0
65°	340.2	379.4	355.5	296.1	248.3	217.6	200.8	192.6	188.2	187.2	183.1
67.5°	276.9	306.7	289.4	245.6	207.9	181.4	167.2	160.2	156.9	156.5	153.4
70°	235.3	263.3	250.0	210.4	177.9	157.1	144.8	138.7	136.6	136.3	134.6
72.5°	203.0	222.6	212.0	179.0	153.9	135.0	125.9	119.5	117.2	117.7	116.5
75°	150.3	165.0	158.8	135.9	115.7	103.4	95.9	91.8	89.8	90.9	89.4
77.5°	108.2	117.4	111.9	96.0	83.6	74.7	69.2	66.7	64.8	64.7	64.1
80°	81.6	87.1	84.0	74.5	64.2	56.7	52.3	50.6	49.5	49.2	48.9
82.5°	58.1	62.8	59.1	52.6	45.7	41.1	38.6	36.4	35.6	35.8	35.5
85°	29.3	31.1	29.7	25.6	22.9	20.9	19.4	18.5	17.7	18.1	17.4
87.5°	14.3	13.9	12.4	10.7	9.7	8.4	7.8	6.8	6.8	7.2	7.5
90°	20.9	17.6	14.3	11.3	8.8	6.2	3.7	1.2	3.7	6.2	8.8
92.5°	24.3	21.8	19.4	18.5	19.2	19.9	20.6	21.3	20.6	19.9	19.2
95°	30.0	27.1	24.3	28.2	38.6	49.0	59.5	69.9	59.5	49.0	38.6
97.5°	73.7	91.9	110.3	121.8	126.5	131.2	135.9	140.5	135.9	131.2	126.5
100°	117.3	157.1	196.8	214.2	209.0	203.9	198.9	193.8	198.9	203.9	209.0
102.5°	162.3	205.7	249.1	269.0	265.3	261.6	258.0	254.3	258.0	261.6	265.3
105°	296.9	319.9	342.9	352.8	350.1	347.3	344.5	341.7	344.5	347.3	350.1
107.5°	453.0	449.4	445.8	442.8	440.6	438.4	436.1	433.9	436.1	438.4	440.6
110°	511.5	508.7	505.9	503.5	501.4	499.4	497.4	495.3	497.4	499.4	501.4



TEST NUMBER: P332138-940

CATALOG NUMBER: S123DIW-S560D1320U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	569.3	566.5	563.7	561.3	559.5	557.7	555.9	554.0	555.9	557.7	559.5
115°	653.5	651.2	649.0	647.0	645.5	644.0	642.5	641.0	642.5	644.0	645.5
117.5°	736.6	735.3	734.1	732.6	730.8	728.9	727.0	725.1	727.0	728.9	730.8
120°	789.6	788.8	788.1	786.6	784.3	781.9	779.7	777.4	779.7	781.9	784.3
122.5°	841.5	840.5	839.5	838.1	836.2	834.4	832.5	830.6	832.5	834.4	836.2
125°	915.3	914.2	913.2	911.7	909.6	907.6	905.5	903.5	905.5	907.6	909.6
127.5°	986.4	985.2	983.9	982.3	980.3	978.2	976.2	974.1	976.2	978.2	980.3
130°	1029.9	1028.9	1027.9	1026.4	1024.3	1022.3	1020.2	1018.2	1020.2	1022.3	1024.3
132.5°	1071.6	1070.8	1070.0	1068.5	1066.5	1064.4	1062.4	1060.3	1062.4	1064.4	1066.5
135°	1134.3	1133.2	1132.2	1131.0	1129.4	1127.8	1126.3	1124.8	1126.3	1127.8	1129.4
137.5°	1190.0	1189.4	1188.8	1187.6	1185.6	1183.7	1181.8	1179.8	1181.8	1183.7	1185.6
140°	1225.3	1224.6	1223.8	1222.6	1221.1	1219.6	1218.1	1216.6	1218.1	1219.6	1221.1
142.5°	1259.3	1258.5	1257.8	1256.6	1255.1	1253.6	1252.0	1250.4	1252.0	1253.6	1255.1
145°	1307.2	1306.7	1306.2	1305.1	1303.3	1301.5	1299.8	1298.0	1299.8	1301.5	1303.3
147.5°	1349.2	1348.7	1348.2	1347.4	1346.1	1345.0	1343.8	1342.6	1343.8	1345.0	1346.1
150°	1374.8	1374.4	1373.9	1373.2	1372.4	1371.7	1370.9	1370.2	1370.9	1371.7	1372.4
152.5°	1397.3	1397.0	1396.7	1396.3	1396.0	1395.6	1395.3	1394.9	1395.3	1395.6	1396.0
155°	1428.2	1427.9	1427.6	1427.7	1428.3	1428.8	1429.3	1429.8	1429.3	1428.8	1428.3
157.5°	1456.0	1456.3	1456.5	1456.6	1456.7	1456.8	1456.8	1456.9	1456.8	1456.8	1456.7
160°	1471.6	1471.9	1472.1	1472.3	1472.6	1472.8	1473.1	1473.4	1473.1	1472.8	1472.6
162.5°	1485.3	1485.6	1485.9	1486.3	1486.9	1487.6	1488.3	1489.0	1488.3	1487.6	1486.9
165°	1503.7	1504.0	1504.2	1504.7	1505.5	1506.2	1507.0	1507.8	1507.0	1506.2	1505.5
167.5°	1517.9	1517.9	1517.9	1518.3	1519.4	1520.4	1521.4	1522.4	1521.4	1520.4	1519.4
170°	1526.1	1526.1	1526.1	1526.6	1527.7	1528.7	1529.6	1530.7	1529.6	1528.7	1527.7
172.5°	1531.2	1531.0	1530.8	1531.3	1532.5	1533.7	1535.0	1536.2	1535.0	1533.7	1532.5
175°	1538.2	1537.9	1537.7	1538.2	1539.4	1540.8	1542.0	1543.3	1542.0	1540.8	1539.4
177.5°	1541.1	1540.9	1540.7	1541.1	1542.1	1543.1	1544.1	1545.2	1544.1	1543.1	1542.1
180°	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3



TEST NUMBER: P332138-940

CATALOG NUMBER: S123DIW-S560D1320U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	693.1	691.3	688.5	684.4	681.1	675.9	675.9	676.7	676.7	676.5	675.9
5°	672.1	667.0	660.8	653.7	646.1	638.6	637.3	634.5	632.5	631.2	629.5
7.5°	649.9	640.9	631.9	621.9	612.7	605.1	599.9	595.5	592.6	589.7	587.5
10°	634.9	623.6	613.1	602.4	590.8	581.6	575.8	571.7	568.6	565.9	564.5
12.5°	617.2	604.2	592.5	582.5	569.8	560.3	554.7	552.9	549.2	543.5	540.5
15°	591.2	579.3	565.3	549.8	543.7	532.1	525.6	522.5	520.5	516.0	514.7
17.5°	569.0	553.3	537.6	526.1	514.7	505.3	501.7	497.8	495.2	491.5	490.4
20°	551.3	537.3	522.9	510.6	498.6	488.4	485.3	482.6	479.8	478.1	476.8
22.5°	533.2	519.2	507.3	495.8	483.0	476.4	473.0	470.0	468.1	466.9	465.6
25°	507.8	495.5	482.2	472.0	461.7	457.3	455.2	453.5	452.2	450.5	450.1
27.5°	485.2	471.8	461.0	451.4	444.1	440.3	438.4	437.6	437.8	438.5	438.8
30°	468.2	455.9	447.0	438.8	432.0	428.6	428.3	428.3	429.6	430.0	430.7
32.5°	452.6	442.6	433.6	425.7	420.5	418.2	419.5	419.5	420.6	421.5	422.8
35°	430.0	421.1	414.3	407.4	403.0	404.0	404.7	405.4	407.1	409.1	410.5
37.5°	408.3	400.6	393.5	388.2	386.1	388.0	389.6	391.0	393.1	394.6	395.9
40°	392.7	386.9	380.1	375.3	376.0	377.0	378.4	380.1	381.8	382.8	384.2
42.5°	378.3	372.2	367.0	363.0	364.0	365.3	366.1	367.0	369.0	370.9	371.7
45°	356.2	351.4	346.6	344.3	344.9	345.6	346.3	347.3	349.0	350.4	350.7
47.5°	331.4	328.1	324.9	322.5	323.6	323.3	324.2	326.5	327.0	327.8	329.7
50°	315.6	312.5	308.7	308.1	308.1	308.1	308.4	311.1	311.1	312.5	313.9
52.5°	298.1	296.1	293.7	292.5	291.9	291.9	293.4	294.7	295.2	297.2	298.5
55°	272.2	270.1	268.1	267.1	266.4	267.1	269.8	270.5	272.2	273.2	274.2
57.5°	245.2	243.6	242.0	241.5	241.3	242.2	243.7	245.8	246.2	249.3	250.8
60°	227.5	225.1	223.7	223.7	223.0	226.0	225.4	228.8	229.5	231.6	234.0
62.5°	209.1	205.9	205.4	205.4	206.3	207.2	208.2	209.7	211.5	214.1	215.9
65°	179.7	177.9	180.3	179.9	179.3	181.4	181.4	183.1	185.1	187.5	191.3
67.5°	151.7	150.8	151.1	151.1	152.0	153.2	154.2	155.7	158.1	160.7	163.1
70°	132.9	133.8	132.2	133.6	134.6	134.9	135.5	137.6	140.4	142.0	144.8
72.5°	114.6	114.5	114.7	115.2	116.3	116.9	117.5	119.8	122.9	124.3	126.5
75°	88.1	87.7	88.8	88.8	90.5	91.2	91.8	92.9	95.6	97.6	99.4
77.5°	64.4	64.7	64.6	65.7	65.3	65.4	67.5	68.5	68.8	72.9	73.7
80°	48.5	49.2	49.5	49.8	50.2	49.5	51.9	53.0	53.0	55.3	57.1
82.5°	34.9	35.2	36.1	36.5	36.6	37.2	37.5	38.2	39.0	40.0	42.3
85°	17.4	18.5	18.8	18.5	18.8	18.1	19.1	19.4	19.8	19.8	19.8
87.5°	7.8	8.6	9.0	9.9	10.3	11.2	11.4	11.1	11.3	12.3	11.4
90°	11.3	14.3	17.6	20.9	24.2	27.6	28.5	29.5	30.6	31.6	32.4
92.5°	18.5	19.4	21.8	24.3	26.8	29.3	30.9	32.6	34.2	35.8	36.8
95°	28.2	24.3	27.1	30.0	32.7	35.6	37.4	39.1	40.9	42.7	43.6
97.5°	121.8	110.3	91.9	73.7	55.3	36.9	39.0	41.0	43.1	45.0	46.2
100°	214.2	196.8	157.1	117.3	77.6	37.8	39.9	41.9	44.0	46.0	47.2
102.5°	269.0	249.1	205.7	162.3	118.9	75.4	69.1	62.8	56.4	50.2	47.3
105°	352.8	342.9	319.9	296.9	274.0	251.1	206.0	160.9	115.8	70.7	48.4
107.5°	442.8	445.8	449.4	453.0	456.6	460.2	427.1	394.1	361.1	328.0	294.4
110°	503.5	505.9	508.7	511.5	514.3	517.1	508.7	500.2	491.9	483.5	461.0



TEST NUMBER: P332138-940

CATALOG NUMBER: S123DIW-S560D1320U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	561.3	563.7	566.5	569.3	572.1	574.9	575.1	575.2	575.3	575.5	571.8
115°	647.0	649.0	651.2	653.5	655.9	658.2	660.7	663.3	665.8	668.3	670.1
117.5°	732.6	734.1	735.3	736.6	737.7	738.9	740.9	743.0	744.9	747.0	748.1
120°	786.6	788.1	788.8	789.6	790.4	791.1	793.2	795.2	797.3	799.3	800.3
122.5°	838.1	839.5	840.5	841.5	842.5	843.5	844.9	846.3	847.7	849.2	850.0
125°	911.7	913.2	914.2	915.3	916.2	917.3	917.7	918.3	918.8	919.3	919.8
127.5°	982.3	983.9	985.2	986.4	987.6	988.8	989.6	990.4	991.2	992.1	992.2
130°	1026.4	1027.9	1028.9	1029.9	1030.9	1031.9	1033.0	1033.9	1035.0	1036.0	1036.3
132.5°	1068.5	1070.0	1070.8	1071.6	1072.4	1073.2	1074.2	1075.2	1076.3	1077.3	1077.5
135°	1131.0	1132.2	1133.2	1134.3	1135.2	1136.3	1137.0	1137.8	1138.5	1139.3	1139.3
137.5°	1187.6	1188.8	1189.4	1190.0	1190.5	1191.1	1192.3	1193.6	1194.7	1196.0	1196.3
140°	1222.6	1223.8	1224.6	1225.3	1226.1	1226.8	1227.9	1228.9	1229.9	1230.9	1231.2
142.5°	1256.6	1257.8	1258.5	1259.3	1260.0	1260.8	1261.6	1262.4	1263.2	1264.1	1264.1
145°	1305.1	1306.2	1306.7	1307.2	1307.8	1308.2	1308.8	1309.3	1309.7	1310.3	1310.5
147.5°	1347.4	1348.2	1348.7	1349.2	1349.7	1350.2	1350.8	1351.2	1351.7	1352.3	1351.9
150°	1373.2	1373.9	1374.4	1374.8	1375.4	1375.9	1376.4	1376.9	1377.4	1378.0	1377.8
152.5°	1396.3	1396.7	1397.0	1397.3	1397.6	1397.9	1398.8	1399.7	1400.7	1401.6	1401.5
155°	1427.7	1427.6	1427.9	1428.2	1428.4	1428.6	1429.9	1431.2	1432.4	1433.8	1433.6
157.5°	1456.6	1456.5	1456.3	1456.0	1455.7	1455.5	1457.0	1458.6	1460.1	1461.6	1461.3
160°	1472.3	1472.1	1471.9	1471.6	1471.3	1471.1	1472.6	1474.1	1475.7	1477.2	1477.0
162.5°	1486.3	1485.9	1485.6	1485.3	1485.1	1484.8	1486.6	1488.3	1490.0	1491.7	1491.8
165°	1504.7	1504.2	1504.0	1503.7	1503.4	1503.2	1505.2	1507.3	1509.3	1511.4	1511.4
167.5°	1518.3	1517.9	1517.9	1517.9	1517.9	1517.9	1519.9	1522.0	1523.9	1526.0	1526.0
170°	1526.6	1526.1	1526.1	1526.1	1526.1	1526.1	1528.1	1530.2	1532.2	1534.3	1534.3
172.5°	1531.3	1530.8	1531.0	1531.2	1531.4	1531.6	1533.7	1535.7	1537.8	1539.8	1539.6
175°	1538.2	1537.7	1537.9	1538.2	1538.5	1538.7	1540.5	1542.3	1544.1	1545.9	1545.7
177.5°	1541.1	1540.7	1540.9	1541.1	1541.2	1541.5	1543.1	1544.7	1546.4	1548.0	1547.8
180°	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3



TEST NUMBER: P332138-940

CATALOG NUMBER: S123DIW-S560D1320U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	674.0	673.8	675.6	674.3	675.6	673.8	674.0	675.9	676.5	676.7	676.7
5°	627.4	628.4	625.0	625.0	625.0	628.4	627.4	629.5	631.2	632.5	634.5
7.5°	585.9	584.3	584.5	582.6	584.5	584.3	585.9	587.5	589.7	592.6	595.5
10°	560.4	558.4	557.7	558.0	557.7	558.4	560.4	564.5	565.9	568.6	571.7
12.5°	539.4	539.0	534.5	534.6	534.5	539.0	539.4	540.5	543.5	549.2	552.9
15°	514.7	508.2	507.5	509.5	507.5	508.2	514.7	514.7	516.0	520.5	522.5
17.5°	489.9	486.4	486.7	485.6	486.7	486.4	489.9	490.4	491.5	495.2	497.8
20°	476.8	474.7	474.4	472.0	474.4	474.7	476.8	476.8	478.1	479.8	482.6
22.5°	464.8	464.0	464.2	461.6	464.2	464.0	464.8	465.6	466.9	468.1	470.0
25°	449.8	451.5	450.1	450.1	450.1	451.5	449.8	450.1	450.5	452.2	453.5
27.5°	439.7	439.6	438.9	438.9	438.9	439.6	439.7	438.8	438.5	437.8	437.6
30°	432.0	431.7	432.4	432.4	432.4	431.7	432.0	430.7	430.0	429.6	428.3
32.5°	424.4	424.8	425.0	425.3	425.0	424.8	424.4	422.8	421.5	420.6	419.5
35°	412.6	412.9	413.9	413.2	413.9	412.9	412.6	410.5	409.1	407.1	405.4
37.5°	396.5	398.1	397.8	398.3	397.8	398.1	396.5	395.9	394.6	393.1	391.0
40°	384.6	385.6	385.2	385.2	385.2	385.6	384.6	384.2	382.8	381.8	380.1
42.5°	372.3	373.0	372.1	371.6	372.1	373.0	372.3	371.7	370.9	369.0	367.0
45°	352.1	351.4	352.5	351.1	352.5	351.4	352.1	350.7	350.4	349.0	347.3
47.5°	329.6	330.3	330.6	331.5	330.6	330.3	329.6	329.7	327.8	327.0	326.5
50°	314.5	316.6	316.6	316.3	316.6	316.6	314.5	313.9	312.5	311.1	311.1
52.5°	299.8	300.8	302.1	302.0	302.1	300.8	299.8	298.5	297.2	295.2	294.7
55°	277.0	277.7	278.3	278.7	278.3	277.7	277.0	274.2	273.2	272.2	270.5
57.5°	253.3	253.1	254.7	255.2	254.7	253.1	253.3	250.8	249.3	246.2	245.8
60°	236.7	236.7	239.4	240.4	239.4	236.7	236.7	234.0	231.6	229.5	228.8
62.5°	218.9	220.0	222.7	221.3	222.7	220.0	218.9	215.9	214.1	211.5	209.7
65°	193.0	195.7	195.4	196.7	195.4	195.7	193.0	191.3	187.5	185.1	183.1
67.5°	165.9	167.6	170.0	170.2	170.0	167.6	165.9	163.1	160.7	158.1	155.7
70°	147.6	149.3	150.6	151.6	150.6	149.3	147.6	144.8	142.0	140.4	137.6
72.5°	129.7	130.6	133.9	132.5	133.9	130.6	129.7	126.5	124.3	122.9	119.8
75°	101.7	104.2	106.2	105.2	106.2	104.2	101.7	99.4	97.6	95.6	92.9
77.5°	75.3	77.7	78.6	77.8	78.6	77.7	75.3	73.7	72.9	68.8	68.5
80°	59.4	59.1	61.2	60.8	61.2	59.1	59.4	57.1	55.3	53.0	53.0
82.5°	43.6	43.2	44.2	44.4	44.2	43.2	43.6	42.3	40.0	39.0	38.2
85°	21.1	22.2	20.9	20.5	20.9	22.2	21.1	19.8	19.8	19.8	19.4
87.5°	11.5	11.6	11.4	11.2	11.4	11.6	11.5	11.4	12.3	11.3	11.1
90°	32.9	33.3	33.9	34.4	33.9	33.3	32.9	32.4	31.6	30.6	29.5
92.5°	37.2	37.5	37.7	38.1	37.7	37.5	37.2	36.8	35.8	34.2	32.6
95°	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	42.7	40.9	39.1
97.5°	46.5	46.7	47.0	47.3	47.0	46.7	46.5	46.2	45.0	43.1	41.0
100°	47.3	47.6	47.9	48.2	47.9	47.6	47.3	47.2	46.0	44.0	41.9
102.5°	47.7	48.2	48.6	49.0	48.6	48.2	47.7	47.3	50.2	56.4	62.8
105°	49.0	49.4	49.9	50.5	49.9	49.4	49.0	48.4	70.7	115.8	160.9
107.5°	260.5	226.4	192.4	158.5	192.4	226.4	260.5	294.4	328.0	361.1	394.1
110°	424.6	388.2	351.8	315.3	351.8	388.2	424.6	461.0	483.5	491.9	500.2



TEST NUMBER: P332138-940

CATALOG NUMBER: S123DIW-S560D1320U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	564.0	556.3	548.7	541.0	548.7	556.3	564.0	571.8	575.5	575.3	575.2
115°	671.1	672.2	673.2	674.2	673.2	672.2	671.1	670.1	668.3	665.8	663.3
117.5°	748.3	748.5	748.8	748.9	748.8	748.5	748.3	748.1	747.0	744.9	743.0
120°	800.3	800.3	800.3	800.3	800.3	800.3	800.3	800.3	799.3	797.3	795.2
122.5°	850.2	850.3	850.6	850.8	850.6	850.3	850.2	850.0	849.2	847.7	846.3
125°	920.3	920.9	921.3	921.9	921.3	920.9	920.3	919.8	919.3	918.8	918.3
127.5°	991.8	991.2	990.7	990.2	990.7	991.2	991.8	992.2	992.1	991.2	990.4
130°	1035.7	1035.3	1034.7	1034.2	1034.7	1035.3	1035.7	1036.3	1036.0	1035.0	1033.9
132.5°	1076.7	1076.0	1075.3	1074.6	1075.3	1076.0	1076.7	1077.5	1077.3	1076.3	1075.2
135°	1138.5	1137.8	1137.0	1136.3	1137.0	1137.8	1138.5	1139.3	1139.3	1138.5	1137.8
137.5°	1195.8	1195.3	1194.8	1194.3	1194.8	1195.3	1195.8	1196.3	1196.0	1194.7	1193.6
140°	1230.7	1230.1	1229.7	1229.1	1229.7	1230.1	1230.7	1231.2	1230.9	1229.9	1228.9
142.5°	1263.4	1262.7	1261.9	1261.2	1261.9	1262.7	1263.4	1264.1	1264.1	1263.2	1262.4
145°	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5	1310.3	1309.7	1309.3
147.5°	1350.8	1349.6	1348.4	1347.2	1348.4	1349.6	1350.8	1351.9	1352.3	1351.7	1351.2
150°	1377.1	1376.3	1375.6	1374.8	1375.6	1376.3	1377.1	1377.8	1378.0	1377.4	1376.9
152.5°	1400.3	1399.1	1397.9	1396.8	1397.9	1399.1	1400.3	1401.5	1401.6	1400.7	1399.7
155°	1432.1	1430.6	1429.1	1427.5	1429.1	1430.6	1432.1	1433.6	1433.8	1432.4	1431.2
157.5°	1459.4	1457.4	1455.4	1453.4	1455.4	1457.4	1459.4	1461.3	1461.6	1460.1	1458.6
160°	1475.2	1473.5	1471.7	1469.9	1471.7	1473.5	1475.2	1477.0	1477.2	1475.7	1474.1
162.5°	1490.2	1488.7	1487.1	1485.5	1487.1	1488.7	1490.2	1491.8	1491.7	1490.0	1488.3
165°	1509.7	1507.9	1506.1	1504.3	1506.1	1507.9	1509.7	1511.4	1511.4	1509.3	1507.3
167.5°	1523.9	1522.0	1519.9	1517.9	1519.9	1522.0	1523.9	1526.0	1526.0	1523.9	1522.0
170°	1532.2	1530.2	1528.1	1526.1	1528.1	1530.2	1532.2	1534.3	1534.3	1532.2	1530.2
172.5°	1537.4	1535.2	1532.9	1530.7	1532.9	1535.2	1537.4	1539.6	1539.8	1537.8	1535.7
175°	1543.7	1541.7	1539.6	1537.6	1539.6	1541.7	1543.7	1545.7	1545.9	1544.1	1542.3
177.5°	1545.8	1543.7	1541.7	1539.6	1541.7	1543.7	1545.8	1547.8	1548.0	1546.4	1544.7
180°	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	675.9	675.9	681.1	684.4	688.5	691.3	693.1	695.1	698.3	702.8	707.7
5°	637.3	638.6	646.1	653.7	660.8	667.0	672.1	678.2	685.8	695.0	705.3
7.5°	599.9	605.1	612.7	621.9	631.9	640.9	649.9	660.0	670.6	684.2	698.6
10°	575.8	581.6	590.8	602.4	613.1	623.6	634.9	645.8	659.2	675.2	693.7
12.5°	554.7	560.3	569.8	582.5	592.5	604.2	617.2	631.3	646.3	665.7	686.5
15°	525.6	532.1	543.7	549.8	565.3	579.3	591.2	611.6	630.8	650.6	674.8
17.5°	501.7	505.3	514.7	526.1	537.6	553.3	569.0	586.0	605.1	629.4	659.7
20°	485.3	488.4	498.6	510.6	522.9	537.3	551.3	568.3	589.8	615.5	648.2
22.5°	473.0	476.4	483.0	495.8	507.3	519.2	533.2	553.6	576.4	601.5	637.0
25°	455.2	457.3	461.7	472.0	482.2	495.5	507.8	527.0	550.5	579.9	615.5
27.5°	438.4	440.3	444.1	451.4	461.0	471.8	485.2	501.4	525.3	557.2	594.9
30°	428.3	428.6	432.0	438.8	447.0	455.9	468.2	486.7	509.2	541.6	581.3
32.5°	419.5	418.2	420.5	425.7	433.6	442.6	452.6	470.8	492.6	524.4	565.2
35°	404.7	404.0	403.0	407.4	414.3	421.1	430.0	443.6	468.2	497.9	540.6
37.5°	389.6	388.0	386.1	388.2	393.5	400.6	408.3	420.4	441.7	474.4	515.2
40°	378.4	377.0	376.0	375.3	380.1	386.9	392.7	404.4	424.2	455.2	495.5
42.5°	366.1	365.3	364.0	363.0	367.0	372.2	378.3	388.5	408.3	437.5	475.6
45°	346.3	345.6	344.9	344.3	346.6	351.4	356.2	363.7	380.8	409.1	443.6
47.5°	324.2	323.3	323.6	322.5	324.9	328.1	331.4	339.5	355.9	378.7	403.9
50°	308.4	308.1	308.1	308.1	308.7	312.5	315.6	321.7	336.7	359.6	377.7
52.5°	293.4	291.9	291.9	292.5	293.7	296.1	298.1	304.8	317.9	336.7	353.1
55°	269.8	267.1	266.4	267.1	268.1	270.1	272.2	277.7	288.9	302.9	312.5
57.5°	243.7	242.2	241.3	241.5	242.0	243.6	245.2	251.2	260.0	267.3	273.5
60°	225.4	226.0	223.0	223.7	223.7	225.1	227.5	231.2	238.7	243.9	250.0
62.5°	208.2	207.2	206.3	205.4	205.4	205.9	209.1	212.0	218.5	221.1	226.0
65°	181.4	181.4	179.3	179.9	180.3	177.9	179.7	183.1	187.2	188.2	192.6
67.5°	154.2	153.2	152.0	151.1	151.1	150.8	151.7	153.4	156.5	156.9	160.2
70°	135.5	134.9	134.6	133.6	132.2	133.8	132.9	134.6	136.3	136.6	138.7
72.5°	117.5	116.9	116.3	115.2	114.7	114.5	114.6	116.5	117.7	117.2	119.5
75°	91.8	91.2	90.5	88.8	88.8	87.7	88.1	89.4	90.9	89.8	91.8
77.5°	67.5	65.4	65.3	65.7	64.6	64.7	64.4	64.1	64.7	64.8	66.7
80°	51.9	49.5	50.2	49.8	49.5	49.2	48.5	48.9	49.2	49.5	50.6
82.5°	37.5	37.2	36.6	36.5	36.1	35.2	34.9	35.5	35.8	35.6	36.4
85°	19.1	18.1	18.8	18.5	18.8	18.5	17.4	17.4	18.1	17.7	18.5
87.5°	11.4	11.2	10.3	9.9	9.0	8.6	7.8	7.5	7.2	6.8	6.8
90°	28.5	27.6	24.2	20.9	17.6	14.3	11.3	8.8	6.2	3.7	1.2
92.5°	30.9	29.3	26.8	24.3	21.8	19.4	18.5	19.2	19.9	20.6	21.3
95°	37.4	35.6	32.7	30.0	27.1	24.3	28.2	38.6	49.0	59.5	69.9
97.5°	39.0	36.9	55.3	73.7	91.9	110.3	121.8	126.5	131.2	135.9	140.5
100°	39.9	37.8	77.6	117.3	157.1	196.8	214.2	209.0	203.9	198.9	193.8
102.5°	69.1	75.4	118.9	162.3	205.7	249.1	269.0	265.3	261.6	258.0	254.3
105°	206.0	251.1	274.0	296.9	319.9	342.9	352.8	350.1	347.3	344.5	341.7
107.5°	427.1	460.2	456.6	453.0	449.4	445.8	442.8	440.6	438.4	436.1	433.9
110°	508.7	517.1	514.3	511.5	508.7	505.9	503.5	501.4	499.4	497.4	495.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	575.1	574.9	572.1	569.3	566.5	563.7	561.3	559.5	557.7	555.9	554.0
115°	660.7	658.2	655.9	653.5	651.2	649.0	647.0	645.5	644.0	642.5	641.0
117.5°	740.9	738.9	737.7	736.6	735.3	734.1	732.6	730.8	728.9	727.0	725.1
120°	793.2	791.1	790.4	789.6	788.8	788.1	786.6	784.3	781.9	779.7	777.4
122.5°	844.9	843.5	842.5	841.5	840.5	839.5	838.1	836.2	834.4	832.5	830.6
125°	917.7	917.3	916.2	915.3	914.2	913.2	911.7	909.6	907.6	905.5	903.5
127.5°	989.6	988.8	987.6	986.4	985.2	983.9	982.3	980.3	978.2	976.2	974.1
130°	1033.0	1031.9	1030.9	1029.9	1028.9	1027.9	1026.4	1024.3	1022.3	1020.2	1018.2
132.5°	1074.2	1073.2	1072.4	1071.6	1070.8	1070.0	1068.5	1066.5	1064.4	1062.4	1060.3
135°	1137.0	1136.3	1135.2	1134.3	1133.2	1132.2	1131.0	1129.4	1127.8	1126.3	1124.8
137.5°	1192.3	1191.1	1190.5	1190.0	1189.4	1188.8	1187.6	1185.6	1183.7	1181.8	1179.8
140°	1227.9	1226.8	1226.1	1225.3	1224.6	1223.8	1222.6	1221.1	1219.6	1218.1	1216.6
142.5°	1261.6	1260.8	1260.0	1259.3	1258.5	1257.8	1256.6	1255.1	1253.6	1252.0	1250.4
145°	1308.8	1308.2	1307.8	1307.2	1306.7	1306.2	1305.1	1303.3	1301.5	1299.8	1298.0
147.5°	1350.8	1350.2	1349.7	1349.2	1348.7	1348.2	1347.4	1346.1	1345.0	1343.8	1342.6
150°	1376.4	1375.9	1375.4	1374.8	1374.4	1373.9	1373.2	1372.4	1371.7	1370.9	1370.2
152.5°	1398.8	1397.9	1397.6	1397.3	1397.0	1396.7	1396.3	1396.0	1395.6	1395.3	1394.9
155°	1429.9	1428.6	1428.4	1428.2	1427.9	1427.6	1427.7	1428.3	1428.8	1429.3	1429.8
157.5°	1457.0	1455.5	1455.7	1456.0	1456.3	1456.5	1456.6	1456.7	1456.8	1456.8	1456.9
160°	1472.6	1471.1	1471.3	1471.6	1471.9	1472.1	1472.3	1472.6	1472.8	1473.1	1473.4
162.5°	1486.6	1484.8	1485.1	1485.3	1485.6	1485.9	1486.3	1486.9	1487.6	1488.3	1489.0
165°	1505.2	1503.2	1503.4	1503.7	1504.0	1504.2	1504.7	1505.5	1506.2	1507.0	1507.8
167.5°	1519.9	1517.9	1517.9	1517.9	1517.9	1517.9	1518.3	1519.4	1520.4	1521.4	1522.4
170°	1528.1	1526.1	1526.1	1526.1	1526.1	1526.1	1526.6	1527.7	1528.7	1529.6	1530.7
172.5°	1533.7	1531.6	1531.4	1531.2	1531.0	1530.8	1531.3	1532.5	1533.7	1535.0	1536.2
175°	1540.5	1538.7	1538.5	1538.2	1537.9	1537.7	1538.2	1539.4	1540.8	1542.0	1543.3
177.5°	1543.1	1541.5	1541.2	1541.1	1540.9	1540.7	1541.1	1542.1	1543.1	1544.1	1545.2
180°	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3



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CATALOG NUMBER: S123DIW-S560D1320U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	709.3	710.6	715.2	718.5	722.4	724.6	726.7	728.4	730.6	731.1	739.0
5°	712.4	719.3	731.2	740.0	751.0	762.9	771.2	774.9	784.8	793.0	809.4
7.5°	711.5	726.0	744.1	762.9	782.9	801.5	817.6	836.7	850.3	870.8	890.9
10°	710.7	730.1	753.4	777.3	805.3	831.3	854.5	880.5	902.0	930.3	954.6
12.5°	708.3	731.8	764.0	792.3	826.3	862.1	896.5	929.9	949.0	996.1	1018.5
15°	702.1	730.1	770.4	813.5	860.3	902.7	946.4	981.1	1037.5	1078.9	1105.2
17.5°	690.5	729.8	777.6	829.5	886.4	942.2	991.7	1044.6	1104.4	1154.3	1207.6
20°	685.1	728.1	781.4	838.7	897.9	961.0	1017.4	1080.9	1146.1	1195.3	1263.6
22.5°	675.0	723.7	781.1	845.1	908.2	973.6	1039.6	1103.6	1178.9	1246.7	1311.7
25°	658.4	713.1	772.5	843.9	918.0	983.6	1062.5	1147.5	1226.1	1313.1	1378.0
27.5°	641.1	699.5	759.0	825.4	905.1	982.9	1082.2	1178.2	1274.3	1349.5	1397.5
30°	627.7	684.4	745.9	812.8	891.7	984.3	1095.3	1200.1	1293.7	1358.3	1385.2
32.5°	613.2	670.7	725.1	795.3	879.4	983.5	1103.5	1212.9	1294.8	1337.7	1332.5
35°	590.5	638.6	691.6	759.2	858.3	977.4	1108.2	1214.1	1264.3	1255.1	1185.4
37.5°	557.7	598.2	650.3	724.3	833.7	964.8	1098.7	1178.1	1174.8	1099.7	998.8
40°	537.3	571.7	621.9	699.8	814.5	956.6	1083.6	1135.2	1091.5	986.7	865.8
42.5°	510.4	542.2	592.4	672.4	793.5	940.0	1055.0	1069.9	984.4	863.7	753.0
45°	469.0	497.0	548.8	631.5	762.0	903.7	985.0	948.4	833.3	708.6	624.3
47.5°	424.3	453.4	503.4	588.3	716.3	849.1	887.8	810.1	691.9	590.8	513.4
50°	396.2	424.2	473.0	558.7	685.5	804.3	820.4	720.0	611.4	522.5	459.0
52.5°	367.7	394.1	442.1	528.2	649.3	752.3	742.4	640.2	540.3	464.6	414.7
55°	325.5	350.4	396.2	476.8	587.1	668.7	632.8	535.2	452.5	393.8	355.9
57.5°	287.7	311.6	351.0	423.8	519.7	575.8	530.2	447.9	382.2	337.0	308.7
60°	262.0	283.1	320.7	388.3	471.6	514.3	469.2	396.5	341.2	305.0	279.7
62.5°	237.6	256.1	290.9	352.2	424.6	460.5	414.9	353.3	306.2	274.1	252.6
65°	200.8	217.6	248.3	296.1	355.5	379.4	340.2	290.3	253.8	229.9	215.5
67.5°	167.2	181.4	207.9	245.6	289.4	306.7	276.9	238.3	210.7	191.5	180.1
70°	144.8	157.1	177.9	210.4	250.0	263.3	235.3	203.6	183.4	168.0	157.5
72.5°	125.9	135.0	153.9	179.0	212.0	222.6	203.0	175.1	156.3	144.8	136.4
75°	95.9	103.4	115.7	135.9	158.8	165.0	150.3	132.9	120.2	112.0	105.5
77.5°	69.2	74.7	83.6	96.0	111.9	117.4	108.2	96.5	87.3	81.8	78.1
80°	52.3	56.7	64.2	74.5	84.0	87.1	81.6	72.8	66.3	63.2	60.1
82.5°	38.6	41.1	45.7	52.6	59.1	62.8	58.1	52.8	49.3	46.5	45.4
85°	19.4	20.9	22.9	25.6	29.7	31.1	29.3	28.0	25.9	24.3	24.3
87.5°	7.8	8.4	9.7	10.7	12.4	13.9	14.3	14.4	14.8	14.7	14.6
90°	3.7	6.2	8.8	11.3	14.3	17.6	20.9	24.2	27.6	28.5	29.5
92.5°	20.6	19.9	19.2	18.5	19.4	21.8	24.3	26.8	29.3	30.9	32.6
95°	59.5	49.0	38.6	28.2	24.3	27.1	30.0	32.7	35.6	37.4	39.1
97.5°	135.9	131.2	126.5	121.8	110.3	91.9	73.7	55.3	36.9	39.0	41.0
100°	198.9	203.9	209.0	214.2	196.8	157.1	117.3	77.6	37.8	39.9	41.9
102.5°	258.0	261.6	265.3	269.0	249.1	205.7	162.3	118.9	75.4	69.1	62.8
105°	344.5	347.3	350.1	352.8	342.9	319.9	296.9	274.0	251.1	206.0	160.9
107.5°	436.1	438.4	440.6	442.8	445.8	449.4	453.0	456.6	460.2	427.1	394.1
110°	497.4	499.4	501.4	503.5	505.9	508.7	511.5	514.3	517.1	508.7	500.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	555.9	557.7	559.5	561.3	563.7	566.5	569.3	572.1	574.9	575.1	575.2
115°	642.5	644.0	645.5	647.0	649.0	651.2	653.5	655.9	658.2	660.7	663.3
117.5°	727.0	728.9	730.8	732.6	734.1	735.3	736.6	737.7	738.9	740.9	743.0
120°	779.7	781.9	784.3	786.6	788.1	788.8	789.6	790.4	791.1	793.2	795.2
122.5°	832.5	834.4	836.2	838.1	839.5	840.5	841.5	842.5	843.5	844.9	846.3
125°	905.5	907.6	909.6	911.7	913.2	914.2	915.3	916.2	917.3	917.7	918.3
127.5°	976.2	978.2	980.3	982.3	983.9	985.2	986.4	987.6	988.8	989.6	990.4
130°	1020.2	1022.3	1024.3	1026.4	1027.9	1028.9	1029.9	1030.9	1031.9	1033.0	1033.9
132.5°	1062.4	1064.4	1066.5	1068.5	1070.0	1070.8	1071.6	1072.4	1073.2	1074.2	1075.2
135°	1126.3	1127.8	1129.4	1131.0	1132.2	1133.2	1134.3	1135.2	1136.3	1137.0	1137.8
137.5°	1181.8	1183.7	1185.6	1187.6	1188.8	1189.4	1190.0	1190.5	1191.1	1192.3	1193.6
140°	1218.1	1219.6	1221.1	1222.6	1223.8	1224.6	1225.3	1226.1	1226.8	1227.9	1228.9
142.5°	1252.0	1253.6	1255.1	1256.6	1257.8	1258.5	1259.3	1260.0	1260.8	1261.6	1262.4
145°	1299.8	1301.5	1303.3	1305.1	1306.2	1306.7	1307.2	1307.8	1308.2	1308.8	1309.3
147.5°	1343.8	1345.0	1346.1	1347.4	1348.2	1348.7	1349.2	1349.7	1350.2	1350.8	1351.2
150°	1370.9	1371.7	1372.4	1373.2	1373.9	1374.4	1374.8	1375.4	1375.9	1376.4	1376.9
152.5°	1395.3	1395.6	1396.0	1396.3	1396.7	1397.0	1397.3	1397.6	1397.9	1398.8	1399.7
155°	1429.3	1428.8	1428.3	1427.7	1427.6	1427.9	1428.2	1428.4	1428.6	1429.9	1431.2
157.5°	1456.8	1456.8	1456.7	1456.6	1456.5	1456.3	1456.0	1455.7	1455.5	1457.0	1458.6
160°	1473.1	1472.8	1472.6	1472.3	1472.1	1471.9	1471.6	1471.3	1471.1	1472.6	1474.1
162.5°	1488.3	1487.6	1486.9	1486.3	1485.9	1485.6	1485.3	1485.1	1484.8	1486.6	1488.3
165°	1507.0	1506.2	1505.5	1504.7	1504.2	1504.0	1503.7	1503.4	1503.2	1505.2	1507.3
167.5°	1521.4	1520.4	1519.4	1518.3	1517.9	1517.9	1517.9	1517.9	1517.9	1519.9	1522.0
170°	1529.6	1528.7	1527.7	1526.6	1526.1	1526.1	1526.1	1526.1	1526.1	1528.1	1530.2
172.5°	1535.0	1533.7	1532.5	1531.3	1530.8	1531.0	1531.2	1531.4	1531.6	1533.7	1535.7
175°	1542.0	1540.8	1539.4	1538.2	1537.7	1537.9	1538.2	1538.5	1538.7	1540.5	1542.3
177.5°	1544.1	1543.1	1542.1	1541.1	1540.7	1540.9	1541.1	1541.2	1541.5	1543.1	1544.7
180°	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	741.8	742.1	745.0	747.3	746.2	747.5	748.1
5°	810.4	822.7	829.2	834.0	834.4	834.6	837.4
7.5°	907.8	921.0	930.6	945.2	949.6	954.6	953.1
10°	978.8	998.3	1015.0	1023.9	1033.4	1047.4	1036.2
12.5°	1045.2	1079.7	1105.2	1118.9	1128.0	1130.8	1125.2
15°	1154.7	1199.8	1224.1	1223.3	1254.1	1267.4	1246.5
17.5°	1255.1	1296.7	1330.0	1347.1	1372.7	1378.4	1375.8
20°	1316.5	1362.0	1387.9	1417.3	1430.7	1442.6	1444.7
22.5°	1369.6	1410.3	1438.2	1462.7	1473.8	1479.4	1482.9
25°	1424.2	1456.3	1473.0	1481.5	1484.6	1483.9	1479.4
27.5°	1420.4	1422.8	1404.4	1386.3	1370.1	1351.8	1345.6
30°	1383.5	1354.8	1303.6	1274.5	1231.9	1198.0	1211.7
32.5°	1286.5	1229.4	1171.9	1108.4	1055.9	1041.0	1025.9
35°	1098.0	997.6	938.9	870.6	843.2	815.9	797.1
37.5°	888.3	810.7	740.9	696.2	668.9	651.7	642.3
40°	768.1	698.0	640.7	604.5	583.6	564.2	561.4
42.5°	672.2	607.1	563.9	535.1	515.1	506.8	500.8
45°	550.5	505.1	476.1	455.6	442.3	437.1	430.3
47.5°	466.0	433.9	412.1	398.1	388.1	384.2	383.7
50°	418.7	392.1	376.0	365.1	357.2	355.9	350.4
52.5°	383.2	360.1	347.6	338.0	332.3	328.5	326.9
55°	332.6	317.3	306.0	300.5	296.1	292.3	292.3
57.5°	291.1	278.2	270.7	266.1	264.7	262.1	260.4
60°	265.4	254.4	248.6	244.5	241.8	242.1	239.1
62.5°	240.2	233.1	227.6	223.5	220.3	220.3	220.5
65°	204.6	199.1	195.0	193.7	191.6	189.2	189.8
67.5°	173.3	168.3	165.1	162.7	162.0	160.7	162.7
70°	151.0	147.2	144.8	142.8	142.0	142.4	144.1
72.5°	130.5	127.8	126.3	125.3	123.8	123.9	125.0
75°	102.5	100.4	99.1	98.0	97.6	97.6	97.6
77.5°	75.3	74.8	74.2	72.7	72.8	73.1	73.2
80°	59.4	58.4	58.1	57.3	56.4	55.6	57.3
82.5°	44.4	43.3	43.1	42.9	41.3	41.2	42.6
85°	23.9	22.9	23.2	22.9	22.9	22.6	22.6
87.5°	14.6	14.5	14.4	14.8	14.6	14.4	15.1
90°	30.6	31.6	32.4	32.9	33.3	33.9	34.4
92.5°	34.2	35.8	36.8	37.2	37.5	37.7	38.1
95°	40.9	42.7	43.6	43.6	43.6	43.6	43.6
97.5°	43.1	45.0	46.2	46.5	46.7	47.0	47.3
100°	44.0	46.0	47.2	47.3	47.6	47.9	48.2
102.5°	56.4	50.2	47.3	47.7	48.2	48.6	49.0
105°	115.8	70.7	48.4	49.0	49.4	49.9	50.5
107.5°	361.1	328.0	294.4	260.5	226.4	192.4	158.5
110°	491.9	483.5	461.0	424.6	388.2	351.8	315.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	575.3	575.5	571.8	564.0	556.3	548.7	541.0
115°	665.8	668.3	670.1	671.1	672.2	673.2	674.2
117.5°	744.9	747.0	748.1	748.3	748.5	748.8	748.9
120°	797.3	799.3	800.3	800.3	800.3	800.3	800.3
122.5°	847.7	849.2	850.0	850.2	850.3	850.6	850.8
125°	918.8	919.3	919.8	920.3	920.9	921.3	921.9
127.5°	991.2	992.1	992.2	991.8	991.2	990.7	990.2
130°	1035.0	1036.0	1036.3	1035.7	1035.3	1034.7	1034.2
132.5°	1076.3	1077.3	1077.5	1076.7	1076.0	1075.3	1074.6
135°	1138.5	1139.3	1139.3	1138.5	1137.8	1137.0	1136.3
137.5°	1194.7	1196.0	1196.3	1195.8	1195.3	1194.8	1194.3
140°	1229.9	1230.9	1231.2	1230.7	1230.1	1229.7	1229.1
142.5°	1263.2	1264.1	1264.1	1263.4	1262.7	1261.9	1261.2
145°	1309.7	1310.3	1310.5	1310.5	1310.5	1310.5	1310.5
147.5°	1351.7	1352.3	1351.9	1350.8	1349.6	1348.4	1347.2
150°	1377.4	1378.0	1377.8	1377.1	1376.3	1375.6	1374.8
152.5°	1400.7	1401.6	1401.5	1400.3	1399.1	1397.9	1396.8
155°	1432.4	1433.8	1433.6	1432.1	1430.6	1429.1	1427.5
157.5°	1460.1	1461.6	1461.3	1459.4	1457.4	1455.4	1453.4
160°	1475.7	1477.2	1477.0	1475.2	1473.5	1471.7	1469.9
162.5°	1490.0	1491.7	1491.8	1490.2	1488.7	1487.1	1485.5
165°	1509.3	1511.4	1511.4	1509.7	1507.9	1506.1	1504.3
167.5°	1523.9	1526.0	1526.0	1523.9	1522.0	1519.9	1517.9
170°	1532.2	1534.3	1534.3	1532.2	1530.2	1528.1	1526.1
172.5°	1537.8	1539.8	1539.6	1537.4	1535.2	1532.9	1530.7
175°	1544.1	1545.9	1545.7	1543.7	1541.7	1539.6	1537.6
177.5°	1546.4	1548.0	1547.8	1545.8	1543.7	1541.7	1539.6
180°	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3

(END OF REPORT)