

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: P332145-935

Luminaire Tested: **S123DIW-S560D1535U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332145-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIW-S560D1535U935-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1535 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6638.5 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

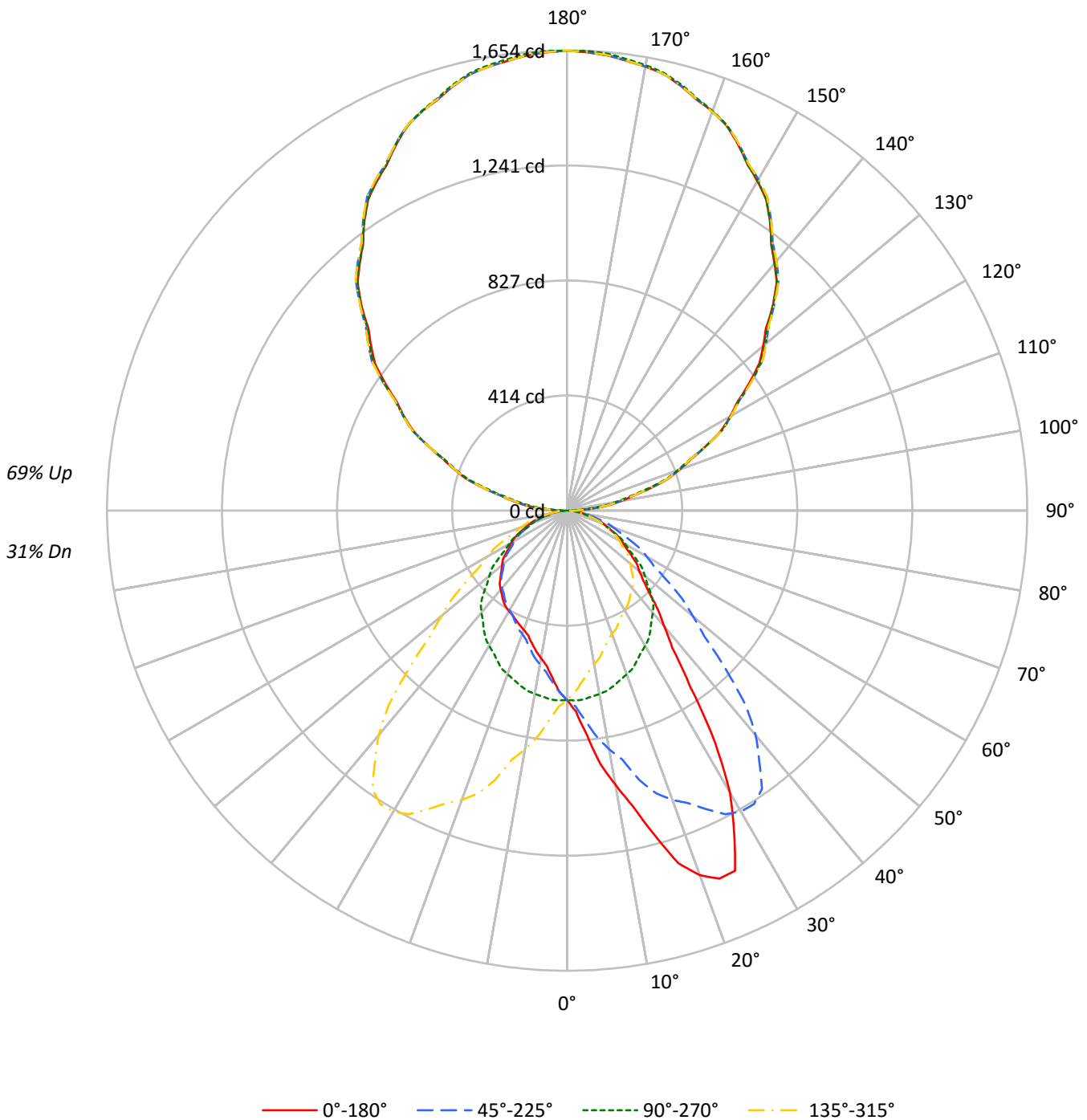
Input Watts (W): 60.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: S123DIW-S560D1535U935-4F0-1E-UDD-A1

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	50	30	10	0	
RCR																						
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39	31	
1	94	90	86	82	84	81	78	75	64	62	60	49	47	46	34	34	33	34	34	33	26	
2	85	78	72	68	77	71	66	61	56	53	50	43	41	39	30	29	28	30	29	28	22	
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	25	24	27	25	24	19	
4	71	61	53	48	64	55	49	44	44	39	36	34	31	28	24	22	21	24	22	21	17	
5	65	54	46	41	59	49	42	37	39	35	31	30	27	24	22	20	18	22	20	18	14	
6	60	49	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	20	18	16	13	
7	56	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14	18	16	14	11	
8	51	40	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	17	14	13	10	
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	15	13	11	9	
10	45	33	26	21	40	30	24	20	24	20	17	19	16	13	14	12	10	14	12	10	8	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7326	7326	7326	7326
5°	8737	7358	6521	7358
10°	10935	7321	5889	7321
15°	13412	7261	5483	7261
20°	15978	7170	5220	7170
25°	16966	7058	5162	7058
30°	14542	6976	5189	6976
35°	10113	6859	5243	6859
40°	7617	6724	5227	6724
45°	6325	6520	5160	6520
50°	5667	6107	5114	6107
55°	5296	5662	5050	5662
60°	4969	5197	4997	5197
65°	4669	4737	4837	4737
70°	4378	4214	4607	4214
75°	3922	3689	4225	3689
80°	3434	3025	3639	3025
85°	2692	2198	2445	2198



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CATALOG NUMBER: S123DIW-S560D1535U935-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	1.0
10°-20°	215.0	3.2
20°-30°	360.8	5.4
30°-40°	408.6	6.2
40°-50°	366.4	5.5
50°-60°	295.7	4.5
60°-70°	206.0	3.1
70°-80°	108.3	1.6
80°-90°	31.4	0.5
90°-100°	107.7	1.6
100°-110°	322.3	4.9
110°-120°	548.1	8.3
120°-130°	721.0	10.9
130°-140°	810.4	12.2
140°-150°	796.6	12.0
150°-160°	670.6	10.1
160°-170°	446.4	6.7
170°-180°	156.3	2.4
0°-30°	642.9	9.7
0°-40°	1051.4	15.8
0°-60°	1713.5	25.8
0°-90°	2059.2	31.0
90°-120°	978.1	14.7
90°-150°	3306.0	49.8
90°-180°	4579.0	69.0
0°-180°	6638.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	681	681	681	681	681	
5°	809	681	604	681	809	84
15°	1204	652	492	652	1204	348
25°	1428	594	435	594	1428	626
35°	770	522	399	522	770	500
45°	416	428	339	428	416	329
55°	282	302	269	302	282	253
65°	183	186	190	186	183	183
75°	94	89	102	89	94	101
85°	22	18	20	18	22	27
90°	39	1	39	1	39	20
95°	101	77	101	77	101	104
105°	309	292	309	292	309	328
115°	553	552	553	552	553	548
125°	798	808	798	808	798	714
135°	1046	1048	1046	1048	1046	805
145°	1271	1271	1271	1271	1271	793
155°	1453	1455	1453	1455	1453	669
165°	1580	1585	1580	1585	1580	446
175°	1642	1649	1642	1649	1642	156
180°	1653	1653	1653	1653	1653	



TEST NUMBER: P332145-935

CATALOG NUMBER: S123DIW-S560D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	722.3	721.8	720.5	721.5	719.4	716.5	716.3	713.6	705.9	705.4	703.4
5°	808.6	805.9	805.6	805.3	800.6	794.4	782.5	781.5	765.7	757.8	748.2
7.5°	920.3	921.7	916.9	912.7	898.5	889.2	876.5	860.2	840.8	821.0	807.9
10°	1000.5	1011.3	997.8	988.6	980.1	963.9	945.1	921.7	898.3	870.9	850.2
12.5°	1086.5	1091.8	1089.2	1080.4	1067.1	1042.5	1009.2	983.4	961.8	916.3	897.9
15°	1203.6	1223.7	1210.9	1181.2	1181.9	1158.5	1114.9	1067.1	1041.7	1001.8	947.4
17.5°	1328.4	1330.9	1325.4	1300.7	1284.2	1252.1	1211.9	1166.1	1114.6	1066.3	1008.6
20°	1394.9	1392.9	1381.4	1368.5	1340.1	1315.1	1271.2	1220.1	1154.2	1106.6	1043.7
22.5°	1431.8	1428.5	1423.1	1412.3	1388.7	1361.8	1322.4	1266.5	1203.8	1138.3	1065.6
25°	1428.5	1432.8	1433.5	1430.5	1422.3	1406.1	1375.1	1330.6	1267.9	1183.9	1108.0
27.5°	1299.2	1305.3	1322.9	1338.6	1356.1	1373.8	1371.5	1349.4	1303.0	1230.4	1137.6
30°	1170.0	1156.8	1189.5	1230.6	1258.7	1308.1	1335.8	1337.5	1311.5	1249.1	1158.7
32.5°	990.6	1005.1	1019.5	1070.2	1131.5	1187.1	1242.2	1286.6	1291.7	1250.2	1171.1
35°	769.6	787.8	814.2	840.6	906.5	963.2	1060.1	1144.6	1211.9	1220.7	1172.3
37.5°	620.2	629.2	645.8	672.3	715.4	782.7	857.7	964.4	1061.9	1134.4	1137.6
40°	542.1	544.8	563.5	583.7	618.6	674.0	741.7	835.9	952.7	1054.0	1096.1
42.5°	483.5	489.4	497.3	516.7	544.5	586.2	649.0	727.0	834.0	950.5	1033.0
45°	415.5	422.1	427.1	439.9	459.7	487.7	531.6	602.8	684.2	804.6	915.8
47.5°	370.5	371.0	374.7	384.4	397.9	419.0	450.0	495.7	570.5	668.0	782.2
50°	338.4	343.6	344.9	352.5	363.1	378.6	404.3	443.2	504.5	590.3	695.2
52.5°	315.6	317.2	320.9	326.4	335.6	347.7	370.0	400.5	448.6	521.7	618.1
55°	282.2	282.2	285.9	290.2	295.5	306.3	321.2	343.6	380.2	437.0	516.8
57.5°	251.4	253.0	255.6	256.9	261.4	268.6	281.0	298.1	325.4	369.0	432.5
60°	230.8	233.8	233.5	236.1	240.0	245.6	256.2	270.1	294.5	329.4	382.9
62.5°	212.9	212.7	212.7	215.8	219.7	225.1	232.0	243.9	264.7	295.7	341.1
65°	183.3	182.7	185.0	187.0	188.3	192.3	197.5	208.1	222.0	245.0	280.3
67.5°	157.1	155.2	156.4	157.1	159.4	162.5	167.4	173.9	184.9	203.5	230.1
70°	139.1	137.5	137.2	137.8	139.8	142.2	145.8	152.1	162.2	177.1	196.6
72.5°	120.7	119.6	119.5	121.0	121.9	123.4	126.0	131.7	139.8	150.9	169.1
75°	94.3	94.3	94.3	94.6	95.7	96.9	98.9	101.9	108.1	116.1	128.3
77.5°	70.7	70.6	70.3	70.2	71.6	72.2	72.7	75.4	79.0	84.3	93.2
80°	55.4	53.7	54.4	55.4	56.1	56.4	57.3	58.0	61.0	64.0	70.3
82.5°	41.2	39.8	39.9	41.4	41.6	41.8	42.9	43.8	44.9	47.6	51.0
85°	21.8	21.8	22.1	22.1	22.4	22.1	23.1	23.4	23.4	25.1	27.0
87.5°	15.7	15.1	15.2	15.3	15.0	15.1	15.1	15.2	15.2	15.2	14.7
90°	38.9	38.4	37.8	37.2	36.7	35.8	34.6	33.5	32.3	31.2	27.4
92.5°	52.4	52.8	53.1	53.5	53.8	53.6	52.6	51.7	50.8	49.9	47.7
95°	101.3	101.3	101.3	101.3	101.3	100.7	99.5	98.4	97.2	96.1	93.8
97.5°	155.8	155.9	156.0	156.2	156.3	155.7	154.3	153.0	151.7	150.3	148.7
100°	197.3	196.7	196.2	195.6	195.0	194.3	193.5	192.6	191.7	190.9	189.4
102.5°	240.0	240.0	240.1	240.3	240.4	240.0	239.2	238.3	237.5	236.5	234.6
105°	309.0	308.4	307.9	307.3	306.7	306.4	306.4	306.4	306.4	306.4	303.8
107.5°	380.9	381.3	381.6	381.9	382.3	382.0	381.1	380.2	379.3	378.3	377.3
110°	429.7	430.3	430.9	431.4	432.0	431.8	430.6	429.5	428.3	427.1	426.5



TEST NUMBER: P332145-935

CATALOG NUMBER: S123DIW-S560D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	481.6	481.8	481.9	482.1	482.2	481.5	480.1	478.7	477.3	476.0	475.9
115°	553.1	553.4	553.7	554.0	554.2	554.2	554.0	553.7	553.4	553.1	553.7
117.5°	625.5	626.4	627.2	627.9	628.8	629.2	629.3	629.3	629.4	629.5	630.2
120°	676.4	677.0	677.6	678.2	678.7	679.2	679.5	679.8	680.0	680.4	681.7
122.5°	725.2	726.1	726.9	727.7	728.5	729.3	730.0	730.7	731.5	732.3	733.1
125°	798.5	799.6	800.8	801.9	803.1	804.3	805.4	806.6	807.7	808.9	809.4
127.5°	871.4	872.8	874.1	875.5	876.8	878.2	879.9	881.5	883.0	884.7	885.4
130°	919.2	921.3	923.3	925.3	927.3	928.9	930.1	931.2	932.4	933.5	934.4
132.5°	969.1	970.6	972.2	973.8	975.3	976.8	978.2	979.6	980.9	982.3	982.9
135°	1046.5	1047.1	1047.6	1048.2	1048.8	1049.6	1050.8	1052.0	1053.1	1054.3	1054.6
137.5°	1114.7	1115.9	1117.0	1118.0	1119.1	1120.3	1121.5	1122.7	1123.9	1125.2	1124.4
140°	1159.4	1161.4	1163.5	1165.4	1167.5	1168.6	1169.0	1169.2	1169.5	1169.8	1169.5
142.5°	1205.1	1206.7	1208.2	1209.8	1211.3	1212.3	1212.5	1212.9	1213.1	1213.4	1212.9
145°	1271.1	1272.2	1273.4	1274.5	1275.7	1276.4	1276.7	1276.9	1277.3	1277.6	1276.7
147.5°	1329.7	1331.5	1333.3	1335.0	1336.7	1337.6	1337.6	1337.6	1337.6	1337.6	1336.7
150°	1367.2	1368.9	1370.6	1372.3	1374.1	1374.9	1374.9	1374.9	1374.9	1374.9	1374.3
152.5°	1403.5	1405.0	1406.5	1408.0	1409.5	1410.1	1409.5	1409.1	1408.7	1408.2	1407.8
155°	1452.9	1454.8	1456.9	1458.9	1460.9	1461.4	1460.2	1459.1	1457.9	1456.7	1456.5
157.5°	1497.8	1499.3	1501.0	1502.6	1504.3	1504.4	1503.2	1502.0	1500.8	1499.6	1499.3
160°	1526.8	1528.0	1529.1	1530.3	1531.5	1531.3	1529.9	1528.4	1527.0	1525.5	1525.5
162.5°	1548.7	1550.5	1552.4	1554.2	1556.1	1556.3	1554.8	1553.3	1552.0	1550.5	1550.2
165°	1580.1	1582.1	1584.2	1586.1	1588.2	1588.3	1586.6	1584.8	1583.1	1581.4	1581.4
167.5°	1606.8	1608.6	1610.4	1612.2	1613.9	1613.9	1612.2	1610.4	1608.6	1606.8	1606.6
170°	1620.3	1622.4	1624.4	1626.4	1628.4	1628.4	1626.4	1624.4	1622.4	1620.3	1620.3
172.5°	1630.7	1632.7	1634.8	1636.8	1638.8	1638.9	1637.1	1635.3	1633.6	1631.8	1631.8
175°	1642.4	1644.4	1646.4	1648.5	1650.5	1650.6	1648.9	1647.2	1645.5	1643.7	1643.7
177.5°	1648.6	1650.3	1651.8	1653.5	1655.1	1655.2	1653.8	1652.4	1651.1	1649.7	1649.7
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



TEST NUMBER: P332145-935

CATALOG NUMBER: S123DIW-S560D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	701.7	699.6	697.5	693.8	690.6	686.1	684.8	683.3	678.6	674.2	671.1
5°	744.6	736.7	725.1	714.5	706.0	694.5	687.9	681.0	671.1	662.2	654.9
7.5°	789.5	773.9	756.0	736.6	718.5	701.0	687.0	674.5	660.6	647.5	637.3
10°	825.1	802.6	777.6	750.5	727.5	705.0	686.2	669.8	651.9	636.5	623.5
12.5°	865.6	832.4	797.9	765.0	737.7	706.6	683.9	662.9	642.7	624.1	609.6
15°	913.8	871.6	830.7	785.5	743.9	705.0	678.0	651.6	628.2	609.1	590.6
17.5°	957.5	909.7	855.8	800.9	750.8	704.6	666.8	637.0	607.7	584.3	565.8
20°	982.3	927.9	866.9	809.9	754.5	703.0	661.5	625.9	594.3	569.5	548.7
22.5°	1003.8	940.0	876.9	816.0	754.2	698.8	651.8	615.1	580.7	556.6	534.5
25°	1025.9	949.7	886.4	814.9	745.9	688.5	635.8	594.3	559.9	531.6	508.9
27.5°	1044.9	949.1	873.9	796.9	732.9	675.4	619.1	574.5	538.0	507.2	484.1
30°	1057.6	950.4	861.0	784.8	720.2	660.8	606.1	561.3	523.0	491.6	469.9
32.5°	1065.5	949.6	849.1	767.9	700.2	647.6	592.1	545.7	506.4	475.6	454.6
35°	1070.1	943.7	828.7	733.1	667.8	616.6	570.2	522.0	480.8	452.1	428.3
37.5°	1060.8	931.6	804.9	699.4	627.9	577.6	538.5	497.5	458.1	426.5	406.0
40°	1046.3	923.7	786.4	675.7	600.5	552.0	518.8	478.5	439.5	409.6	390.5
42.5°	1018.6	907.6	766.2	649.3	572.0	523.5	492.8	459.3	422.4	394.3	375.1
45°	951.1	872.5	735.7	609.8	529.9	479.8	452.8	428.3	395.0	367.6	351.2
47.5°	857.2	819.8	691.6	568.0	486.0	437.8	409.7	390.0	365.7	343.6	327.8
50°	792.1	776.6	661.9	539.5	456.7	409.6	382.5	364.7	347.2	325.1	310.6
52.5°	716.9	726.4	627.0	510.0	426.9	380.6	355.1	341.0	325.1	306.9	294.3
55°	611.1	645.7	566.9	460.4	382.5	338.4	314.3	301.7	292.5	279.0	268.1
57.5°	512.0	555.9	501.8	409.2	338.9	300.8	277.8	264.1	258.1	251.1	242.5
60°	453.1	496.6	455.4	375.0	309.6	273.4	253.0	241.4	235.5	230.5	223.3
62.5°	400.6	444.6	410.0	340.1	280.9	247.3	229.5	218.2	213.5	210.9	204.7
65°	328.5	366.4	343.3	285.9	239.7	210.1	193.9	186.0	181.7	180.7	176.8
67.5°	267.3	296.2	279.4	237.1	200.8	175.1	161.4	154.7	151.4	151.1	148.1
70°	227.2	254.3	241.4	203.1	171.8	151.7	139.8	133.9	131.9	131.6	129.9
72.5°	196.0	214.9	204.7	172.8	148.6	130.4	121.6	115.4	113.1	113.7	112.5
75°	145.1	159.3	153.3	131.2	111.8	99.9	92.6	88.7	86.7	87.7	86.4
77.5°	104.4	113.4	108.1	92.7	80.8	72.2	66.8	64.4	62.6	62.5	61.9
80°	78.8	84.1	81.1	71.9	62.0	54.8	50.5	48.8	47.8	47.5	47.2
82.5°	56.1	60.6	57.1	50.8	44.1	39.7	37.3	35.1	34.4	34.5	34.3
85°	28.3	30.0	28.7	24.7	22.1	20.1	18.8	17.8	17.1	17.5	16.8
87.5°	14.5	14.0	12.5	10.8	9.6	8.3	7.7	6.6	6.6	7.2	7.5
90°	23.7	19.9	16.2	12.8	10.0	7.1	4.2	1.3	4.2	7.1	10.0
92.5°	45.5	43.5	41.3	39.3	37.3	35.3	33.4	31.4	33.4	35.3	37.3
95°	91.4	89.1	86.9	84.7	82.7	80.7	78.6	76.6	78.6	80.7	82.7
97.5°	147.0	145.3	143.6	142.1	140.6	139.1	137.6	136.0	137.6	139.1	140.6
100°	188.0	186.5	185.1	183.5	181.8	180.0	178.3	176.6	178.3	180.0	181.8
102.5°	232.7	230.8	228.9	227.5	226.4	225.4	224.4	223.3	224.4	225.4	226.4
105°	301.2	298.6	296.0	294.5	293.9	293.3	292.7	292.1	292.7	293.3	293.9
107.5°	376.3	375.2	374.2	373.5	373.2	372.8	372.5	372.1	372.5	372.8	373.2
110°	426.0	425.4	424.8	424.3	423.7	423.1	422.6	422.0	422.6	423.1	423.7



TEST NUMBER: P332145-935

CATALOG NUMBER: S123DIW-S560D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	475.7	475.6	475.5	475.3	474.9	474.6	474.2	473.9	474.2	474.6	474.9
115°	554.2	554.8	555.4	555.3	554.4	553.5	552.7	551.8	552.7	553.5	554.4
117.5°	630.9	631.7	632.4	632.5	632.0	631.4	630.8	630.3	630.8	631.4	632.0
120°	683.2	684.7	686.1	686.0	684.2	682.5	680.8	679.1	680.8	682.5	684.2
122.5°	733.7	734.5	735.3	735.0	733.7	732.5	731.2	730.0	731.2	732.5	733.7
125°	810.0	810.6	811.1	811.1	810.2	809.3	808.4	807.5	808.4	809.3	810.2
127.5°	886.0	886.6	887.3	886.7	884.8	883.0	881.1	879.3	881.1	883.0	884.8
130°	935.2	936.1	936.9	936.3	933.9	931.6	929.4	927.0	929.4	931.6	933.9
132.5°	983.6	984.2	984.9	984.0	981.7	979.4	977.1	974.8	977.1	979.4	981.7
135°	1054.8	1055.2	1055.4	1054.7	1052.9	1051.2	1049.5	1047.8	1049.5	1051.2	1052.9
137.5°	1123.6	1122.9	1122.1	1121.0	1119.6	1118.2	1116.7	1115.3	1116.7	1118.2	1119.6
140°	1169.2	1169.0	1168.6	1167.8	1166.3	1164.9	1163.5	1162.0	1163.5	1164.9	1166.3
142.5°	1212.4	1211.9	1211.3	1210.4	1208.9	1207.5	1206.0	1204.6	1206.0	1207.5	1208.9
145°	1275.8	1275.0	1274.1	1273.4	1272.8	1272.2	1271.7	1271.1	1271.7	1272.2	1272.8
147.5°	1335.9	1335.2	1334.3	1333.4	1332.4	1331.3	1330.2	1329.2	1330.2	1331.3	1332.4
150°	1373.8	1373.2	1372.6	1372.1	1371.5	1370.9	1370.4	1369.8	1370.4	1370.9	1371.5
152.5°	1407.5	1407.1	1406.8	1406.2	1405.4	1404.6	1403.8	1403.0	1403.8	1404.6	1405.4
155°	1456.1	1455.9	1455.6	1455.4	1455.4	1455.4	1455.4	1455.4	1455.4	1455.4	1455.4
157.5°	1499.1	1498.9	1498.7	1498.7	1499.1	1499.4	1499.8	1500.1	1499.8	1499.4	1499.1
160°	1525.5	1525.5	1525.5	1525.9	1526.4	1527.0	1527.6	1528.2	1527.6	1527.0	1526.4
162.5°	1550.1	1549.8	1549.5	1549.9	1550.7	1551.4	1552.3	1553.1	1552.3	1551.4	1550.7
165°	1581.4	1581.4	1581.4	1581.8	1582.7	1583.6	1584.4	1585.3	1584.4	1583.6	1582.7
167.5°	1606.4	1606.1	1605.9	1606.4	1607.5	1608.7	1609.8	1611.0	1609.8	1608.7	1607.5
170°	1620.3	1620.3	1620.3	1620.9	1622.0	1623.2	1624.4	1625.5	1624.4	1623.2	1622.0
172.5°	1631.8	1631.8	1631.8	1632.4	1633.5	1634.6	1635.8	1636.9	1635.8	1634.6	1633.5
175°	1643.7	1643.7	1643.7	1644.3	1645.5	1646.6	1647.8	1648.9	1647.8	1646.6	1645.5
177.5°	1649.7	1649.7	1649.7	1650.1	1651.1	1652.0	1652.9	1653.8	1652.9	1652.0	1651.1
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



TEST NUMBER: P332145-935

CATALOG NUMBER: S123DIW-S560D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	669.3	667.4	664.8	660.8	657.6	652.6	652.6	653.4	653.4	653.2	652.6
5°	648.9	644.0	638.1	631.2	623.9	616.6	615.4	612.7	610.7	609.4	607.8
7.5°	627.5	618.8	610.1	600.5	591.6	584.3	579.2	575.0	572.2	569.4	567.2
10°	613.0	602.1	591.9	581.7	570.5	561.5	555.9	552.0	549.1	546.4	545.1
12.5°	595.9	583.4	572.1	562.4	550.2	541.0	535.6	533.8	530.3	524.8	521.9
15°	570.8	559.3	545.8	530.9	525.0	513.8	507.5	504.5	502.6	498.3	497.0
17.5°	549.4	534.3	519.1	508.0	497.0	487.9	484.4	480.7	478.1	474.6	473.6
20°	532.3	518.8	504.9	493.0	481.5	471.6	468.6	466.0	463.3	461.7	460.4
22.5°	514.8	501.3	489.8	478.7	466.4	459.9	456.7	453.8	451.9	450.8	449.5
25°	490.3	478.5	465.6	455.7	445.8	441.5	439.5	437.9	436.6	435.0	434.6
27.5°	468.5	455.6	445.1	435.8	428.8	425.2	423.3	422.5	422.8	423.4	423.7
30°	452.1	440.2	431.6	423.7	417.2	413.9	413.5	413.5	414.8	415.2	415.9
32.5°	437.0	427.3	418.7	411.0	406.0	403.8	405.1	405.1	406.1	407.0	408.2
35°	415.2	406.6	400.0	393.4	389.1	390.1	390.7	391.4	393.0	395.0	396.4
37.5°	394.3	386.8	380.0	374.8	372.8	374.6	376.2	377.5	379.5	381.0	382.3
40°	379.2	373.6	367.0	362.4	363.1	364.0	365.4	367.0	368.7	369.6	371.0
42.5°	365.2	359.4	354.4	350.5	351.5	352.8	353.5	354.4	356.3	358.1	358.9
45°	344.0	339.3	334.7	332.4	333.0	333.7	334.4	335.4	337.0	338.4	338.6
47.5°	320.0	316.8	313.7	311.4	312.5	312.2	313.1	315.2	315.7	316.5	318.3
50°	304.7	301.7	298.1	297.5	297.5	297.5	297.7	300.4	300.4	301.7	303.1
52.5°	287.8	285.9	283.6	282.4	281.9	281.9	283.3	284.6	285.1	287.0	288.3
55°	262.8	260.8	258.9	257.9	257.2	257.9	260.5	261.1	262.8	263.8	264.8
57.5°	236.8	235.2	233.7	233.2	233.0	233.8	235.3	237.3	237.7	240.7	242.2
60°	219.6	217.3	216.0	216.0	215.3	218.3	217.7	220.9	221.6	223.6	225.9
62.5°	201.9	198.8	198.3	198.3	199.2	200.1	201.0	202.5	204.2	206.7	208.4
65°	173.5	171.8	174.1	173.7	173.1	175.1	175.1	176.8	178.7	181.1	184.7
67.5°	146.5	145.6	145.9	145.9	146.8	147.9	148.9	150.3	152.7	155.2	157.5
70°	128.3	129.2	127.6	129.0	129.9	130.3	130.9	132.9	135.5	137.2	139.8
72.5°	110.6	110.6	110.7	111.2	112.3	112.9	113.5	115.7	118.6	120.0	122.2
75°	85.1	84.7	85.8	85.8	87.4	88.1	88.7	89.7	92.3	94.3	96.0
77.5°	62.2	62.5	62.3	63.5	63.0	63.1	65.2	66.1	66.4	70.3	71.2
80°	46.8	47.5	47.8	48.1	48.5	47.8	50.1	51.1	51.1	53.4	55.1
82.5°	33.7	34.0	34.9	35.2	35.3	35.9	36.2	36.9	37.6	38.7	40.8
85°	16.8	17.8	18.2	17.8	18.2	17.5	18.4	18.8	19.1	19.1	19.1
87.5°	7.8	8.8	9.3	10.2	10.8	11.8	12.0	11.7	12.0	13.0	12.1
90°	12.8	16.2	19.9	23.7	27.4	31.2	32.3	33.5	34.6	35.8	36.7
92.5°	39.3	41.3	43.5	45.5	47.7	49.9	50.8	51.7	52.6	53.6	53.8
95°	84.7	86.9	89.1	91.4	93.8	96.1	97.2	98.4	99.5	100.7	101.3
97.5°	142.1	143.6	145.3	147.0	148.7	150.3	151.7	153.0	154.3	155.7	156.3
100°	183.5	185.1	186.5	188.0	189.4	190.9	191.7	192.6	193.5	194.3	195.0
102.5°	227.5	228.9	230.8	232.7	234.6	236.5	237.5	238.3	239.2	240.0	240.4
105°	294.5	296.0	298.6	301.2	303.8	306.4	306.4	306.4	306.4	306.4	306.7
107.5°	373.5	374.2	375.2	376.3	377.3	378.3	379.3	380.2	381.1	382.0	382.3
110°	424.3	424.8	425.4	426.0	426.5	427.1	428.3	429.5	430.6	431.8	432.0



TEST NUMBER: P332145-935

CATALOG NUMBER: S123DIW-S560D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	475.3	475.5	475.6	475.7	475.9	476.0	477.3	478.7	480.1	481.5	482.2
115°	555.3	555.4	554.8	554.2	553.7	553.1	553.4	553.7	554.0	554.2	554.2
117.5°	632.5	632.4	631.7	630.9	630.2	629.5	629.4	629.3	629.3	629.2	628.8
120°	686.0	686.1	684.7	683.2	681.7	680.4	680.0	679.8	679.5	679.2	678.7
122.5°	735.0	735.3	734.5	733.7	733.1	732.3	731.5	730.7	730.0	729.3	728.5
125°	811.1	811.1	810.6	810.0	809.4	808.9	807.7	806.6	805.4	804.3	803.1
127.5°	886.7	887.3	886.6	886.0	885.4	884.7	883.0	881.5	879.9	878.2	876.8
130°	936.3	936.9	936.1	935.2	934.4	933.5	932.4	931.2	930.1	928.9	927.3
132.5°	984.0	984.9	984.2	983.6	982.9	982.3	980.9	979.6	978.2	976.8	975.3
135°	1054.7	1055.4	1055.2	1054.8	1054.6	1054.3	1053.1	1052.0	1050.8	1049.6	1048.8
137.5°	1121.0	1122.1	1122.9	1123.6	1124.4	1125.2	1123.9	1122.7	1121.5	1120.3	1119.1
140°	1167.8	1168.6	1169.0	1169.2	1169.5	1169.8	1169.5	1169.2	1169.0	1168.6	1167.5
142.5°	1210.4	1211.3	1211.9	1212.4	1212.9	1213.4	1213.1	1212.9	1212.5	1212.3	1211.3
145°	1273.4	1274.1	1275.0	1275.8	1276.7	1277.6	1277.3	1276.9	1276.7	1276.4	1275.7
147.5°	1333.4	1334.3	1335.2	1335.9	1336.7	1337.6	1337.6	1337.6	1337.6	1337.6	1336.7
150°	1372.1	1372.6	1373.2	1373.8	1374.3	1374.9	1374.9	1374.9	1374.9	1374.9	1374.1
152.5°	1406.2	1406.8	1407.1	1407.5	1407.8	1408.2	1408.7	1409.1	1409.5	1410.1	1409.5
155°	1455.4	1455.6	1455.9	1456.1	1456.5	1456.7	1457.9	1459.1	1460.2	1461.4	1460.9
157.5°	1498.7	1498.7	1498.9	1499.1	1499.3	1499.6	1500.8	1502.0	1503.2	1504.4	1504.3
160°	1525.9	1525.5	1525.5	1525.5	1525.5	1525.5	1527.0	1528.4	1529.9	1531.3	1531.5
162.5°	1549.9	1549.5	1549.8	1550.1	1550.2	1550.5	1552.0	1553.3	1554.8	1556.3	1556.1
165°	1581.8	1581.4	1581.4	1581.4	1581.4	1581.4	1583.1	1584.8	1586.6	1588.3	1588.2
167.5°	1606.4	1605.9	1606.1	1606.4	1606.6	1606.8	1608.6	1610.4	1612.2	1613.9	1613.9
170°	1620.9	1620.3	1620.3	1620.3	1620.3	1620.3	1622.4	1624.4	1626.4	1628.4	1628.4
172.5°	1632.4	1631.8	1631.8	1631.8	1631.8	1631.8	1633.6	1635.3	1637.1	1638.9	1638.8
175°	1644.3	1643.7	1643.7	1643.7	1643.7	1643.7	1645.5	1647.2	1648.9	1650.6	1650.5
177.5°	1650.1	1649.7	1649.7	1649.7	1649.7	1649.7	1651.1	1652.4	1653.8	1655.2	1655.1
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



TEST NUMBER: P332145-935

CATALOG NUMBER: S123DIW-S560D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	650.8	650.6	652.4	651.1	652.4	650.6	650.8	652.6	653.2	653.4	653.4
5°	605.8	606.7	603.5	603.5	603.5	606.7	605.8	607.8	609.4	610.7	612.7
7.5°	565.7	564.2	564.4	562.6	564.4	564.2	565.7	567.2	569.4	572.2	575.0
10°	541.1	539.2	538.5	538.8	538.5	539.2	541.1	545.1	546.4	549.1	552.0
12.5°	520.8	520.4	516.1	516.2	516.1	520.4	520.8	521.9	524.8	530.3	533.8
15°	497.0	490.7	490.0	492.0	490.0	490.7	497.0	497.0	498.3	502.6	504.5
17.5°	473.0	469.7	469.9	468.9	469.9	469.7	473.0	473.6	474.6	478.1	480.7
20°	460.4	458.4	458.1	455.7	458.1	458.4	460.4	460.4	461.7	463.3	466.0
22.5°	448.8	448.1	448.2	445.7	448.2	448.1	448.8	449.5	450.8	451.9	453.8
25°	434.3	435.9	434.6	434.6	434.6	435.9	434.3	434.6	435.0	436.6	437.9
27.5°	424.6	424.5	423.8	423.8	423.8	424.5	424.6	423.7	423.4	422.8	422.5
30°	417.2	416.8	417.5	417.5	417.5	416.8	417.2	415.9	415.2	414.8	413.5
32.5°	409.7	410.2	410.4	410.6	410.4	410.2	409.7	408.2	407.0	406.1	405.1
35°	398.4	398.6	399.7	399.0	399.7	398.6	398.4	396.4	395.0	393.0	391.4
37.5°	382.9	384.4	384.1	384.6	384.1	384.4	382.9	382.3	381.0	379.5	377.5
40°	371.3	372.3	372.0	372.0	372.0	372.3	371.3	371.0	369.6	368.7	367.0
42.5°	359.5	360.2	359.3	358.8	359.3	360.2	359.5	358.9	358.1	356.3	354.4
45°	340.0	339.3	340.4	339.0	340.4	339.3	340.0	338.6	338.4	337.0	335.4
47.5°	318.2	318.9	319.2	320.1	319.2	318.9	318.2	318.3	316.5	315.7	315.2
50°	303.7	305.7	305.7	305.4	305.7	305.7	303.7	303.1	301.7	300.4	300.4
52.5°	289.5	290.4	291.7	291.6	291.7	290.4	289.5	288.3	287.0	285.1	284.6
55°	267.4	268.1	268.7	269.1	268.7	268.1	267.4	264.8	263.8	262.8	261.1
57.5°	244.6	244.4	245.9	246.4	245.9	244.4	244.6	242.2	240.7	237.7	237.3
60°	228.5	228.5	231.2	232.1	231.2	228.5	228.5	225.9	223.6	221.6	220.9
62.5°	211.4	212.4	215.1	213.7	215.1	212.4	211.4	208.4	206.7	204.2	202.5
65°	186.3	189.0	188.6	189.9	188.6	189.0	186.3	184.7	181.1	178.7	176.8
67.5°	160.1	161.8	164.2	164.4	164.2	161.8	160.1	157.5	155.2	152.7	150.3
70°	142.5	144.1	145.4	146.4	145.4	144.1	142.5	139.8	137.2	135.5	132.9
72.5°	125.3	126.1	129.3	127.9	129.3	126.1	125.3	122.2	120.0	118.6	115.7
75°	98.2	100.6	102.5	101.6	102.5	100.6	98.2	96.0	94.3	92.3	89.7
77.5°	72.7	75.0	75.9	75.1	75.9	75.0	72.7	71.2	70.3	66.4	66.1
80°	57.3	57.1	59.1	58.7	59.1	57.1	57.3	55.1	53.4	51.1	51.1
82.5°	42.1	41.8	42.7	42.9	42.7	41.8	42.1	40.8	38.7	37.6	36.9
85°	20.4	21.4	20.1	19.8	20.1	21.4	20.4	19.1	19.1	19.1	18.8
87.5°	12.2	12.3	12.1	12.1	12.1	12.3	12.2	12.1	13.0	12.0	11.7
90°	37.2	37.8	38.4	38.9	38.4	37.8	37.2	36.7	35.8	34.6	33.5
92.5°	53.5	53.1	52.8	52.4	52.8	53.1	53.5	53.8	53.6	52.6	51.7
95°	101.3	101.3	101.3	101.3	101.3	101.3	101.3	101.3	100.7	99.5	98.4
97.5°	156.2	156.0	155.9	155.8	155.9	156.0	156.2	156.3	155.7	154.3	153.0
100°	195.6	196.2	196.7	197.3	196.7	196.2	195.6	195.0	194.3	193.5	192.6
102.5°	240.3	240.1	240.0	240.0	240.0	240.1	240.3	240.4	240.0	239.2	238.3
105°	307.3	307.9	308.4	309.0	308.4	307.9	307.3	306.7	306.4	306.4	306.4
107.5°	381.9	381.6	381.3	380.9	381.3	381.6	381.9	382.3	382.0	381.1	380.2
110°	431.4	430.9	430.3	429.7	430.3	430.9	431.4	432.0	431.8	430.6	429.5



TEST NUMBER: P332145-935

CATALOG NUMBER: S123DIW-S560D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	482.1	481.9	481.8	481.6	481.8	481.9	482.1	482.2	481.5	480.1	478.7
115°	554.0	553.7	553.4	553.1	553.4	553.7	554.0	554.2	554.2	554.0	553.7
117.5°	627.9	627.2	626.4	625.5	626.4	627.2	627.9	628.8	629.2	629.3	629.3
120°	678.2	677.6	677.0	676.4	677.0	677.6	678.2	678.7	679.2	679.5	679.8
122.5°	727.7	726.9	726.1	725.2	726.1	726.9	727.7	728.5	729.3	730.0	730.7
125°	801.9	800.8	799.6	798.5	799.6	800.8	801.9	803.1	804.3	805.4	806.6
127.5°	875.5	874.1	872.8	871.4	872.8	874.1	875.5	876.8	878.2	879.9	881.5
130°	925.3	923.3	921.3	919.2	921.3	923.3	925.3	927.3	928.9	930.1	931.2
132.5°	973.8	972.2	970.6	969.1	970.6	972.2	973.8	975.3	976.8	978.2	979.6
135°	1048.2	1047.6	1047.1	1046.5	1047.1	1047.6	1048.2	1048.8	1049.6	1050.8	1052.0
137.5°	1118.0	1117.0	1115.9	1114.7	1115.9	1117.0	1118.0	1119.1	1120.3	1121.5	1122.7
140°	1165.4	1163.5	1161.4	1159.4	1161.4	1163.5	1165.4	1167.5	1168.6	1169.0	1169.2
142.5°	1209.8	1208.2	1206.7	1205.1	1206.7	1208.2	1209.8	1211.3	1212.3	1212.5	1212.9
145°	1274.5	1273.4	1272.2	1271.1	1272.2	1273.4	1274.5	1275.7	1276.4	1276.7	1276.9
147.5°	1335.0	1333.3	1331.5	1329.7	1331.5	1333.3	1335.0	1336.7	1337.6	1337.6	1337.6
150°	1372.3	1370.6	1368.9	1367.2	1368.9	1370.6	1372.3	1374.1	1374.9	1374.9	1374.9
152.5°	1408.0	1406.5	1405.0	1403.5	1405.0	1406.5	1408.0	1409.5	1410.1	1409.5	1409.1
155°	1458.9	1456.9	1454.8	1452.9	1454.8	1456.9	1458.9	1460.9	1461.4	1460.2	1459.1
157.5°	1502.6	1501.0	1499.3	1497.8	1499.3	1501.0	1502.6	1504.3	1504.4	1503.2	1502.0
160°	1530.3	1529.1	1528.0	1526.8	1528.0	1529.1	1530.3	1531.5	1531.3	1529.9	1528.4
162.5°	1554.2	1552.4	1550.5	1548.7	1550.5	1552.4	1554.2	1556.1	1556.3	1554.8	1553.3
165°	1586.1	1584.2	1582.1	1580.1	1582.1	1584.2	1586.1	1588.2	1588.3	1586.6	1584.8
167.5°	1612.2	1610.4	1608.6	1606.8	1608.6	1610.4	1612.2	1613.9	1613.9	1612.2	1610.4
170°	1626.4	1624.4	1622.4	1620.3	1622.4	1624.4	1626.4	1628.4	1628.4	1626.4	1624.4
172.5°	1636.8	1634.8	1632.7	1630.7	1632.7	1634.8	1636.8	1638.8	1638.9	1637.1	1635.3
175°	1648.5	1646.4	1644.4	1642.4	1644.4	1646.4	1648.5	1650.5	1650.6	1648.9	1647.2
177.5°	1653.5	1651.8	1650.3	1648.6	1650.3	1651.8	1653.5	1655.1	1655.2	1653.8	1652.4
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



TEST NUMBER: P332145-935

CATALOG NUMBER: S123DIW-S560D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	652.6	652.6	657.6	660.8	664.8	667.4	669.3	671.1	674.2	678.6	683.3
5°	615.4	616.6	623.9	631.2	638.1	644.0	648.9	654.9	662.2	671.1	681.0
7.5°	579.2	584.3	591.6	600.5	610.1	618.8	627.5	637.3	647.5	660.6	674.5
10°	555.9	561.5	570.5	581.7	591.9	602.1	613.0	623.5	636.5	651.9	669.8
12.5°	535.6	541.0	550.2	562.4	572.1	583.4	595.9	609.6	624.1	642.7	662.9
15°	507.5	513.8	525.0	530.9	545.8	559.3	570.8	590.6	609.1	628.2	651.6
17.5°	484.4	487.9	497.0	508.0	519.1	534.3	549.4	565.8	584.3	607.7	637.0
20°	468.6	471.6	481.5	493.0	504.9	518.8	532.3	548.7	569.5	594.3	625.9
22.5°	456.7	459.9	466.4	478.7	489.8	501.3	514.8	534.5	556.6	580.7	615.1
25°	439.5	441.5	445.8	455.7	465.6	478.5	490.3	508.9	531.6	559.9	594.3
27.5°	423.3	425.2	428.8	435.8	445.1	455.6	468.5	484.1	507.2	538.0	574.5
30°	413.5	413.9	417.2	423.7	431.6	440.2	452.1	469.9	491.6	523.0	561.3
32.5°	405.1	403.8	406.0	411.0	418.7	427.3	437.0	454.6	475.6	506.4	545.7
35°	390.7	390.1	389.1	393.4	400.0	406.6	415.2	428.3	452.1	480.8	522.0
37.5°	376.2	374.6	372.8	374.8	380.0	386.8	394.3	406.0	426.5	458.1	497.5
40°	365.4	364.0	363.1	362.4	367.0	373.6	379.2	390.5	409.6	439.5	478.5
42.5°	353.5	352.8	351.5	350.5	354.4	359.4	365.2	375.1	394.3	422.4	459.3
45°	334.4	333.7	333.0	332.4	334.7	339.3	344.0	351.2	367.6	395.0	428.3
47.5°	313.1	312.2	312.5	311.4	313.7	316.8	320.0	327.8	343.6	365.7	390.0
50°	297.7	297.5	297.5	297.5	298.1	301.7	304.7	310.6	325.1	347.2	364.7
52.5°	283.3	281.9	281.9	282.4	283.6	285.9	287.8	294.3	306.9	325.1	341.0
55°	260.5	257.9	257.2	257.9	258.9	260.8	262.8	268.1	279.0	292.5	301.7
57.5°	235.3	233.8	233.0	233.2	233.7	235.2	236.8	242.5	251.1	258.1	264.1
60°	217.7	218.3	215.3	216.0	216.0	217.3	219.6	223.3	230.5	235.5	241.4
62.5°	201.0	200.1	199.2	198.3	198.3	198.8	201.9	204.7	210.9	213.5	218.2
65°	175.1	175.1	173.1	173.7	174.1	171.8	173.5	176.8	180.7	181.7	186.0
67.5°	148.9	147.9	146.8	145.9	145.9	145.6	146.5	148.1	151.1	151.4	154.7
70°	130.9	130.3	129.9	129.0	127.6	129.2	128.3	129.9	131.6	131.9	133.9
72.5°	113.5	112.9	112.3	111.2	110.7	110.6	110.6	112.5	113.7	113.1	115.4
75°	88.7	88.1	87.4	85.8	85.8	84.7	85.1	86.4	87.7	86.7	88.7
77.5°	65.2	63.1	63.0	63.5	62.3	62.5	62.2	61.9	62.5	62.6	64.4
80°	50.1	47.8	48.5	48.1	47.8	47.5	46.8	47.2	47.5	47.8	48.8
82.5°	36.2	35.9	35.3	35.2	34.9	34.0	33.7	34.3	34.5	34.4	35.1
85°	18.4	17.5	18.2	17.8	18.2	17.8	16.8	16.8	17.5	17.1	17.8
87.5°	12.0	11.8	10.8	10.2	9.3	8.8	7.8	7.5	7.2	6.6	6.6
90°	32.3	31.2	27.4	23.7	19.9	16.2	12.8	10.0	7.1	4.2	1.3
92.5°	50.8	49.9	47.7	45.5	43.5	41.3	39.3	37.3	35.3	33.4	31.4
95°	97.2	96.1	93.8	91.4	89.1	86.9	84.7	82.7	80.7	78.6	76.6
97.5°	151.7	150.3	148.7	147.0	145.3	143.6	142.1	140.6	139.1	137.6	136.0
100°	191.7	190.9	189.4	188.0	186.5	185.1	183.5	181.8	180.0	178.3	176.6
102.5°	237.5	236.5	234.6	232.7	230.8	228.9	227.5	226.4	225.4	224.4	223.3
105°	306.4	306.4	303.8	301.2	298.6	296.0	294.5	293.9	293.3	292.7	292.1
107.5°	379.3	378.3	377.3	376.3	375.2	374.2	373.5	373.2	372.8	372.5	372.1
110°	428.3	427.1	426.5	426.0	425.4	424.8	424.3	423.7	423.1	422.6	422.0



TEST NUMBER: P332145-935

CATALOG NUMBER: S123DIW-S560D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	477.3	476.0	475.9	475.7	475.6	475.5	475.3	474.9	474.6	474.2	473.9
115°	553.4	553.1	553.7	554.2	554.8	555.4	555.3	554.4	553.5	552.7	551.8
117.5°	629.4	629.5	630.2	630.9	631.7	632.4	632.5	632.0	631.4	630.8	630.3
120°	680.0	680.4	681.7	683.2	684.7	686.1	686.0	684.2	682.5	680.8	679.1
122.5°	731.5	732.3	733.1	733.7	734.5	735.3	735.0	733.7	732.5	731.2	730.0
125°	807.7	808.9	809.4	810.0	810.6	811.1	811.1	810.2	809.3	808.4	807.5
127.5°	883.0	884.7	885.4	886.0	886.6	887.3	886.7	884.8	883.0	881.1	879.3
130°	932.4	933.5	934.4	935.2	936.1	936.9	936.3	933.9	931.6	929.4	927.0
132.5°	980.9	982.3	982.9	983.6	984.2	984.9	984.0	981.7	979.4	977.1	974.8
135°	1053.1	1054.3	1054.6	1054.8	1055.2	1055.4	1054.7	1052.9	1051.2	1049.5	1047.8
137.5°	1123.9	1125.2	1124.4	1123.6	1122.9	1122.1	1121.0	1119.6	1118.2	1116.7	1115.3
140°	1169.5	1169.8	1169.5	1169.2	1169.0	1168.6	1167.8	1166.3	1164.9	1163.5	1162.0
142.5°	1213.1	1213.4	1212.9	1212.4	1211.9	1211.3	1210.4	1208.9	1207.5	1206.0	1204.6
145°	1277.3	1277.6	1276.7	1275.8	1275.0	1274.1	1273.4	1272.8	1272.2	1271.7	1271.1
147.5°	1337.6	1337.6	1336.7	1335.9	1335.2	1334.3	1333.4	1332.4	1331.3	1330.2	1329.2
150°	1374.9	1374.9	1374.3	1373.8	1373.2	1372.6	1372.1	1371.5	1370.9	1370.4	1369.8
152.5°	1408.7	1408.2	1407.8	1407.5	1407.1	1406.8	1406.2	1405.4	1404.6	1403.8	1403.0
155°	1457.9	1456.7	1456.5	1456.1	1455.9	1455.6	1455.4	1455.4	1455.4	1455.4	1455.4
157.5°	1500.8	1499.6	1499.3	1499.1	1498.9	1498.7	1498.7	1499.1	1499.4	1499.8	1500.1
160°	1527.0	1525.5	1525.5	1525.5	1525.5	1525.5	1525.9	1526.4	1527.0	1527.6	1528.2
162.5°	1552.0	1550.5	1550.2	1550.1	1549.8	1549.5	1549.9	1550.7	1551.4	1552.3	1553.1
165°	1583.1	1581.4	1581.4	1581.4	1581.4	1581.4	1581.8	1582.7	1583.6	1584.4	1585.3
167.5°	1608.6	1606.8	1606.6	1606.4	1606.1	1605.9	1606.4	1607.5	1608.7	1609.8	1611.0
170°	1622.4	1620.3	1620.3	1620.3	1620.3	1620.3	1620.9	1622.0	1623.2	1624.4	1625.5
172.5°	1633.6	1631.8	1631.8	1631.8	1631.8	1631.8	1632.4	1633.5	1634.6	1635.8	1636.9
175°	1645.5	1643.7	1643.7	1643.7	1643.7	1643.7	1644.3	1645.5	1646.6	1647.8	1648.9
177.5°	1651.1	1649.7	1649.7	1649.7	1649.7	1649.7	1650.1	1651.1	1652.0	1652.9	1653.8
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



TEST NUMBER: P332145-935

CATALOG NUMBER: S123DIW-S560D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	684.8	686.1	690.6	693.8	697.5	699.6	701.7	703.4	705.4	705.9	713.6
5°	687.9	694.5	706.0	714.5	725.1	736.7	744.6	748.2	757.8	765.7	781.5
7.5°	687.0	701.0	718.5	736.6	756.0	773.9	789.5	807.9	821.0	840.8	860.2
10°	686.2	705.0	727.5	750.5	777.6	802.6	825.1	850.2	870.9	898.3	921.7
12.5°	683.9	706.6	737.7	765.0	797.9	832.4	865.6	897.9	916.3	961.8	983.4
15°	678.0	705.0	743.9	785.5	830.7	871.6	913.8	947.4	1001.8	1041.7	1067.1
17.5°	666.8	704.6	750.8	800.9	855.8	909.7	957.5	1008.6	1066.3	1114.6	1166.1
20°	661.5	703.0	754.5	809.9	866.9	927.9	982.3	1043.7	1106.6	1154.2	1220.1
22.5°	651.8	698.8	754.2	816.0	876.9	940.0	1003.8	1065.6	1138.3	1203.8	1266.5
25°	635.8	688.5	745.9	814.9	886.4	949.7	1025.9	1108.0	1183.9	1267.9	1330.6
27.5°	619.1	675.4	732.9	796.9	873.9	949.1	1044.9	1137.6	1230.4	1303.0	1349.4
30°	606.1	660.8	720.2	784.8	861.0	950.4	1057.6	1158.7	1249.1	1311.5	1337.5
32.5°	592.1	647.6	700.2	767.9	849.1	949.6	1065.5	1171.1	1250.2	1291.7	1286.6
35°	570.2	616.6	667.8	733.1	828.7	943.7	1070.1	1172.3	1220.7	1211.9	1144.6
37.5°	538.5	577.6	627.9	699.4	804.9	931.6	1060.8	1137.6	1134.4	1061.9	964.4
40°	518.8	552.0	600.5	675.7	786.4	923.7	1046.3	1096.1	1054.0	952.7	835.9
42.5°	492.8	523.5	572.0	649.3	766.2	907.6	1018.6	1033.0	950.5	834.0	727.0
45°	452.8	479.8	529.9	609.8	735.7	872.5	951.1	915.8	804.6	684.2	602.8
47.5°	409.7	437.8	486.0	568.0	691.6	819.8	857.2	782.2	668.0	570.5	495.7
50°	382.5	409.6	456.7	539.5	661.9	776.6	792.1	695.2	590.3	504.5	443.2
52.5°	355.1	380.6	426.9	510.0	627.0	726.4	716.9	618.1	521.7	448.6	400.5
55°	314.3	338.4	382.5	460.4	566.9	645.7	611.1	516.8	437.0	380.2	343.6
57.5°	277.8	300.8	338.9	409.2	501.8	555.9	512.0	432.5	369.0	325.4	298.1
60°	253.0	273.4	309.6	375.0	455.4	496.6	453.1	382.9	329.4	294.5	270.1
62.5°	229.5	247.3	280.9	340.1	410.0	444.6	400.6	341.1	295.7	264.7	243.9
65°	193.9	210.1	239.7	285.9	343.3	366.4	328.5	280.3	245.0	222.0	208.1
67.5°	161.4	175.1	200.8	237.1	279.4	296.2	267.3	230.1	203.5	184.9	173.9
70°	139.8	151.7	171.8	203.1	241.4	254.3	227.2	196.6	177.1	162.2	152.1
72.5°	121.6	130.4	148.6	172.8	204.7	214.9	196.0	169.1	150.9	139.8	131.7
75°	92.6	99.9	111.8	131.2	153.3	159.3	145.1	128.3	116.1	108.1	101.9
77.5°	66.8	72.2	80.8	92.7	108.1	113.4	104.4	93.2	84.3	79.0	75.4
80°	50.5	54.8	62.0	71.9	81.1	84.1	78.8	70.3	64.0	61.0	58.0
82.5°	37.3	39.7	44.1	50.8	57.1	60.6	56.1	51.0	47.6	44.9	43.8
85°	18.8	20.1	22.1	24.7	28.7	30.0	28.3	27.0	25.1	23.4	23.4
87.5°	7.7	8.3	9.6	10.8	12.5	14.0	14.5	14.7	15.2	15.2	15.2
90°	4.2	7.1	10.0	12.8	16.2	19.9	23.7	27.4	31.2	32.3	33.5
92.5°	33.4	35.3	37.3	39.3	41.3	43.5	45.5	47.7	49.9	50.8	51.7
95°	78.6	80.7	82.7	84.7	86.9	89.1	91.4	93.8	96.1	97.2	98.4
97.5°	137.6	139.1	140.6	142.1	143.6	145.3	147.0	148.7	150.3	151.7	153.0
100°	178.3	180.0	181.8	183.5	185.1	186.5	188.0	189.4	190.9	191.7	192.6
102.5°	224.4	225.4	226.4	227.5	228.9	230.8	232.7	234.6	236.5	237.5	238.3
105°	292.7	293.3	293.9	294.5	296.0	298.6	301.2	303.8	306.4	306.4	306.4
107.5°	372.5	372.8	373.2	373.5	374.2	375.2	376.3	377.3	378.3	379.3	380.2
110°	422.6	423.1	423.7	424.3	424.8	425.4	426.0	426.5	427.1	428.3	429.5



TEST NUMBER: P332145-935

CATALOG NUMBER: S123DIW-S560D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	474.2	474.6	474.9	475.3	475.5	475.6	475.7	475.9	476.0	477.3	478.7
115°	552.7	553.5	554.4	555.3	555.4	554.8	554.2	553.7	553.1	553.4	553.7
117.5°	630.8	631.4	632.0	632.5	632.4	631.7	630.9	630.2	629.5	629.4	629.3
120°	680.8	682.5	684.2	686.0	686.1	684.7	683.2	681.7	680.4	680.0	679.8
122.5°	731.2	732.5	733.7	735.0	735.3	734.5	733.7	733.1	732.3	731.5	730.7
125°	808.4	809.3	810.2	811.1	811.1	810.6	810.0	809.4	808.9	807.7	806.6
127.5°	881.1	883.0	884.8	886.7	887.3	886.6	886.0	885.4	884.7	883.0	881.5
130°	929.4	931.6	933.9	936.3	936.9	936.1	935.2	934.4	933.5	932.4	931.2
132.5°	977.1	979.4	981.7	984.0	984.9	984.2	983.6	982.9	982.3	980.9	979.6
135°	1049.5	1051.2	1052.9	1054.7	1055.4	1055.2	1054.8	1054.6	1054.3	1053.1	1052.0
137.5°	1116.7	1118.2	1119.6	1121.0	1122.1	1122.9	1123.6	1124.4	1125.2	1123.9	1122.7
140°	1163.5	1164.9	1166.3	1167.8	1168.6	1169.0	1169.2	1169.5	1169.8	1169.5	1169.2
142.5°	1206.0	1207.5	1208.9	1210.4	1211.3	1211.9	1212.4	1212.9	1213.4	1213.1	1212.9
145°	1271.7	1272.2	1272.8	1273.4	1274.1	1275.0	1275.8	1276.7	1277.6	1277.3	1276.9
147.5°	1330.2	1331.3	1332.4	1333.4	1334.3	1335.2	1335.9	1336.7	1337.6	1337.6	1337.6
150°	1370.4	1370.9	1371.5	1372.1	1372.6	1373.2	1373.8	1374.3	1374.9	1374.9	1374.9
152.5°	1403.8	1404.6	1405.4	1406.2	1406.8	1407.1	1407.5	1407.8	1408.2	1408.7	1409.1
155°	1455.4	1455.4	1455.4	1455.4	1455.6	1455.9	1456.1	1456.5	1456.7	1457.9	1459.1
157.5°	1499.8	1499.4	1499.1	1498.7	1498.7	1498.9	1499.1	1499.3	1499.6	1500.8	1502.0
160°	1527.6	1527.0	1526.4	1525.9	1525.5	1525.5	1525.5	1525.5	1525.5	1527.0	1528.4
162.5°	1552.3	1551.4	1550.7	1549.9	1549.5	1549.8	1550.1	1550.2	1550.5	1552.0	1553.3
165°	1584.4	1583.6	1582.7	1581.8	1581.4	1581.4	1581.4	1581.4	1581.4	1583.1	1584.8
167.5°	1609.8	1608.7	1607.5	1606.4	1605.9	1606.1	1606.4	1606.6	1606.8	1608.6	1610.4
170°	1624.4	1623.2	1622.0	1620.9	1620.3	1620.3	1620.3	1620.3	1620.3	1622.4	1624.4
172.5°	1635.8	1634.6	1633.5	1632.4	1631.8	1631.8	1631.8	1631.8	1631.8	1633.6	1635.3
175°	1647.8	1646.6	1645.5	1644.3	1643.7	1643.7	1643.7	1643.7	1643.7	1645.5	1647.2
177.5°	1652.9	1652.0	1651.1	1650.1	1649.7	1649.7	1649.7	1649.7	1649.7	1651.1	1652.4
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



TEST NUMBER: P332145-935

CATALOG NUMBER: S123DIW-S560D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	716.3	716.5	719.4	721.5	720.5	721.8	722.3
5°	782.5	794.4	800.6	805.3	805.6	805.9	808.6
7.5°	876.5	889.2	898.5	912.7	916.9	921.7	920.3
10°	945.1	963.9	980.1	988.6	997.8	1011.3	1000.5
12.5°	1009.2	1042.5	1067.1	1080.4	1089.2	1091.8	1086.5
15°	1114.9	1158.5	1181.9	1181.2	1210.9	1223.7	1203.6
17.5°	1211.9	1252.1	1284.2	1300.7	1325.4	1330.9	1328.4
20°	1271.2	1315.1	1340.1	1368.5	1381.4	1392.9	1394.9
22.5°	1322.4	1361.8	1388.7	1412.3	1423.1	1428.5	1431.8
25°	1375.1	1406.1	1422.3	1430.5	1433.5	1432.8	1428.5
27.5°	1371.5	1373.8	1356.1	1338.6	1322.9	1305.3	1299.2
30°	1335.8	1308.1	1258.7	1230.6	1189.5	1156.8	1170.0
32.5°	1242.2	1187.1	1131.5	1070.2	1019.5	1005.1	990.6
35°	1060.1	963.2	906.5	840.6	814.2	787.8	769.6
37.5°	857.7	782.7	715.4	672.3	645.8	629.2	620.2
40°	741.7	674.0	618.6	583.7	563.5	544.8	542.1
42.5°	649.0	586.2	544.5	516.7	497.3	489.4	483.5
45°	531.6	487.7	459.7	439.9	427.1	422.1	415.5
47.5°	450.0	419.0	397.9	384.4	374.7	371.0	370.5
50°	404.3	378.6	363.1	352.5	344.9	343.6	338.4
52.5°	370.0	347.7	335.6	326.4	320.9	317.2	315.6
55°	321.2	306.3	295.5	290.2	285.9	282.2	282.2
57.5°	281.0	268.6	261.4	256.9	255.6	253.0	251.4
60°	256.2	245.6	240.0	236.1	233.5	233.8	230.8
62.5°	232.0	225.1	219.7	215.8	212.7	212.7	212.9
65°	197.5	192.3	188.3	187.0	185.0	182.7	183.3
67.5°	167.4	162.5	159.4	157.1	156.4	155.2	157.1
70°	145.8	142.2	139.8	137.8	137.2	137.5	139.1
72.5°	126.0	123.4	121.9	121.0	119.5	119.6	120.7
75°	98.9	96.9	95.7	94.6	94.3	94.3	94.3
77.5°	72.7	72.2	71.6	70.2	70.3	70.6	70.7
80°	57.3	56.4	56.1	55.4	54.4	53.7	55.4
82.5°	42.9	41.8	41.6	41.4	39.9	39.8	41.2
85°	23.1	22.1	22.4	22.1	22.1	21.8	21.8
87.5°	15.1	15.1	15.0	15.3	15.2	15.1	15.7
90°	34.6	35.8	36.7	37.2	37.8	38.4	38.9
92.5°	52.6	53.6	53.8	53.5	53.1	52.8	52.4
95°	99.5	100.7	101.3	101.3	101.3	101.3	101.3
97.5°	154.3	155.7	156.3	156.2	156.0	155.9	155.8
100°	193.5	194.3	195.0	195.6	196.2	196.7	197.3
102.5°	239.2	240.0	240.4	240.3	240.1	240.0	240.0
105°	306.4	306.4	306.7	307.3	307.9	308.4	309.0
107.5°	381.1	382.0	382.3	381.9	381.6	381.3	380.9
110°	430.6	431.8	432.0	431.4	430.9	430.3	429.7



TEST NUMBER: P332145-935

CATALOG NUMBER: S123DIW-S560D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	480.1	481.5	482.2	482.1	481.9	481.8	481.6
115°	554.0	554.2	554.2	554.0	553.7	553.4	553.1
117.5°	629.3	629.2	628.8	627.9	627.2	626.4	625.5
120°	679.5	679.2	678.7	678.2	677.6	677.0	676.4
122.5°	730.0	729.3	728.5	727.7	726.9	726.1	725.2
125°	805.4	804.3	803.1	801.9	800.8	799.6	798.5
127.5°	879.9	878.2	876.8	875.5	874.1	872.8	871.4
130°	930.1	928.9	927.3	925.3	923.3	921.3	919.2
132.5°	978.2	976.8	975.3	973.8	972.2	970.6	969.1
135°	1050.8	1049.6	1048.8	1048.2	1047.6	1047.1	1046.5
137.5°	1121.5	1120.3	1119.1	1118.0	1117.0	1115.9	1114.7
140°	1169.0	1168.6	1167.5	1165.4	1163.5	1161.4	1159.4
142.5°	1212.5	1212.3	1211.3	1209.8	1208.2	1206.7	1205.1
145°	1276.7	1276.4	1275.7	1274.5	1273.4	1272.2	1271.1
147.5°	1337.6	1337.6	1336.7	1335.0	1333.3	1331.5	1329.7
150°	1374.9	1374.9	1374.1	1372.3	1370.6	1368.9	1367.2
152.5°	1409.5	1410.1	1409.5	1408.0	1406.5	1405.0	1403.5
155°	1460.2	1461.4	1460.9	1458.9	1456.9	1454.8	1452.9
157.5°	1503.2	1504.4	1504.3	1502.6	1501.0	1499.3	1497.8
160°	1529.9	1531.3	1531.5	1530.3	1529.1	1528.0	1526.8
162.5°	1554.8	1556.3	1556.1	1554.2	1552.4	1550.5	1548.7
165°	1586.6	1588.3	1588.2	1586.1	1584.2	1582.1	1580.1
167.5°	1612.2	1613.9	1613.9	1612.2	1610.4	1608.6	1606.8
170°	1626.4	1628.4	1628.4	1626.4	1624.4	1622.4	1620.3
172.5°	1637.1	1638.9	1638.8	1636.8	1634.8	1632.7	1630.7
175°	1648.9	1650.6	1650.5	1648.5	1646.4	1644.4	1642.4
177.5°	1653.8	1655.2	1655.1	1653.5	1651.8	1650.3	1648.6
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8

(END OF REPORT)