

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: P332144-930

Luminaire Tested: **S123DIW-S560D1535U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332144-930
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-S560D1535U930-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1535 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6952.8 lumens
Efficiency: N/A
Efficacy: 114.7 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

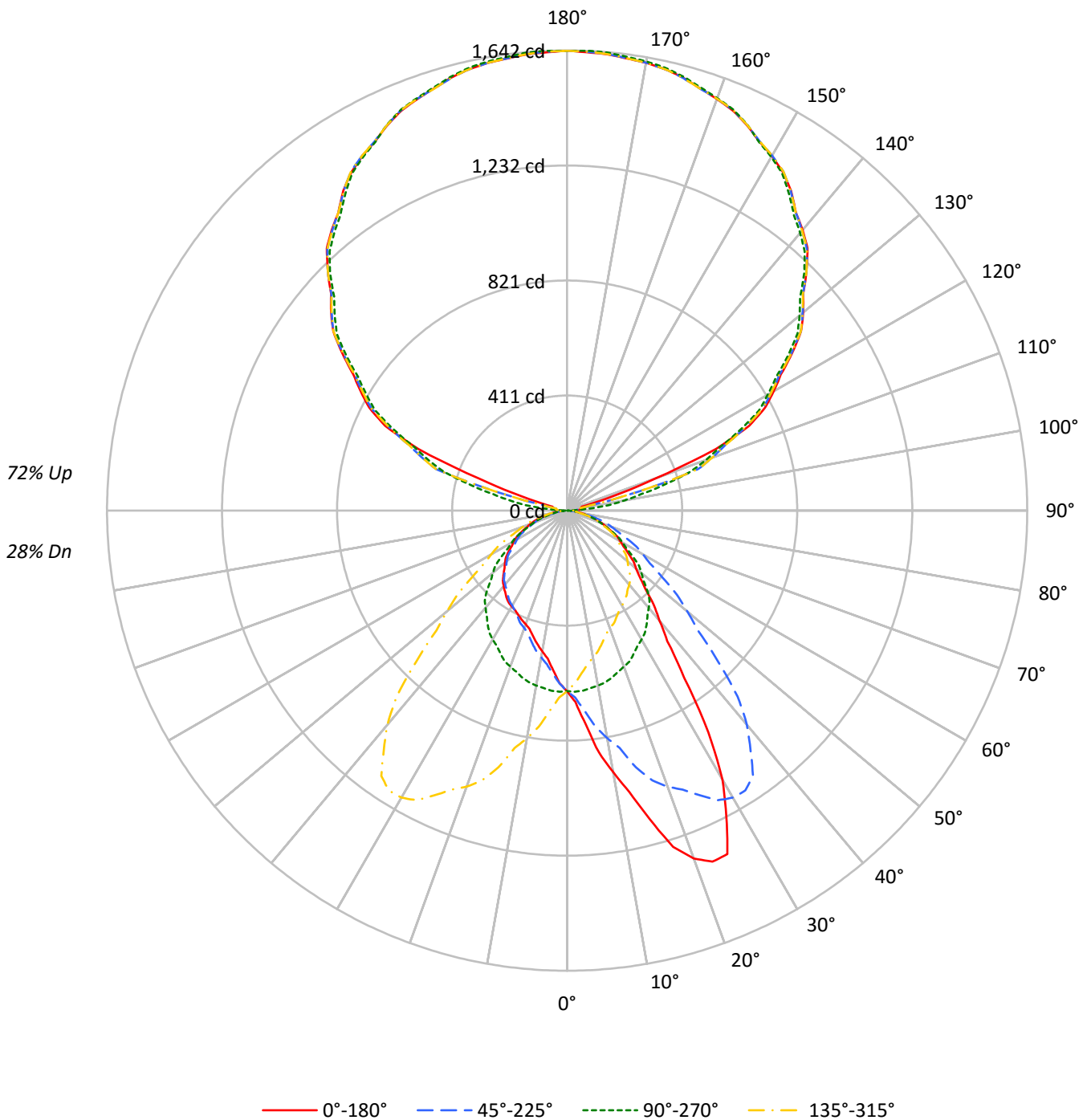
Input Watts (W): 60.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332144-930

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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	50	30	10	0	
RCR																						
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28				
1	93	89	85	82	83	80	77	74	62	60	58	47	45	44	32	31	31	24				
2	85	78	72	67	76	70	65	61	55	51	49	41	39	37	28	27	26	20				
3	77	68	61	56	69	61	56	51	48	44	41	36	34	31	25	24	22	17				
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	23	21	19	15				
5	65	54	46	40	58	48	42	37	38	34	30	29	26	23	20	18	17	13				
6	60	48	40	35	53	43	37	32	35	30	26	26	23	20	18	16	15	11				
7	55	43	36	30	49	39	33	28	31	26	23	24	20	18	17	15	13	10				
8	51	39	32	27	46	35	29	24	28	24	20	22	18	16	15	13	12	9				
9	47	36	28	24	42	32	26	22	26	21	18	20	17	14	14	12	11	8				
10	44	33	26	21	39	30	23	19	24	19	16	18	15	13	13	11	10	7				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6937	6937	6937	6937
5°	8272	6967	6174	6967
10°	10355	6932	5576	6932
15°	12700	6876	5192	6876
20°	15131	6788	4943	6788
25°	16066	6683	4888	6683
30°	13770	6606	4913	6606
35°	9577	6495	4964	6495
40°	7213	6367	4949	6367
45°	5990	6174	4886	6174
50°	5365	5784	4843	5784
55°	5016	5362	4782	5362
60°	4706	4921	4732	4921
65°	4422	4485	4582	4485
70°	4148	3991	4362	3991
75°	3714	3493	4001	3493
80°	3248	2864	3446	2864
85°	2544	2087	2322	2087



TEST NUMBER: P332144-930

CATALOG NUMBER: S123DIW-S560D1535U930-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	0.9
10°-20°	203.6	2.9
20°-30°	341.7	4.9
30°-40°	386.9	5.6
40°-50°	346.9	5.0
50°-60°	280.0	4.0
60°-70°	195.1	2.8
70°-80°	102.5	1.5
80°-90°	29.7	0.4
90°-100°	59.6	0.9
100°-110°	284.3	4.1
110°-120°	682.8	9.8
120°-130°	869.5	12.5
130°-140°	929.1	13.4
140°-150°	868.8	12.5
150°-160°	700.8	10.1
160°-170°	452.3	6.5
170°-180°	155.9	2.2
0°-30°	608.7	8.8
0°-40°	995.6	14.3
0°-60°	1622.5	23.3
0°-90°	1949.8	28.0
90°-120°	1026.8	14.8
90°-150°	3694.1	53.1
90°-180°	5003.0	72.0
0°-180°	6952.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	644	644	644	644	644	
5°	766	645	571	645	766	79
15°	1140	617	466	617	1140	329
25°	1353	563	412	563	1353	593
35°	729	494	378	494	729	473
45°	394	406	321	406	394	311
55°	267	286	255	286	267	240
65°	174	176	180	176	174	173
75°	89	84	96	84	89	96
85°	21	17	19	17	21	25
90°	36	1	36	1	36	18
95°	46	74	46	74	46	39
105°	54	363	54	363	54	123
115°	717	681	717	681	717	662
125°	980	960	980	960	980	875
135°	1208	1196	1208	1196	1208	931
145°	1393	1380	1393	1380	1393	870
155°	1518	1520	1518	1520	1518	700
165°	1599	1603	1599	1603	1599	452
175°	1634	1640	1634	1640	1634	156
180°	1640	1640	1640	1640	1640	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	684.0	683.5	682.2	683.2	681.2	678.5	678.2	675.7	668.5	668.0	666.0
5°	765.6	763.1	762.9	762.5	758.1	752.2	740.9	740.0	725.0	717.5	708.5
7.5°	871.5	872.8	868.2	864.2	850.8	842.0	830.0	814.6	796.1	777.5	765.0
10°	947.4	957.7	944.9	936.1	928.1	912.7	895.0	872.8	850.6	824.7	805.0
12.5°	1028.8	1033.9	1031.4	1023.0	1010.5	987.2	955.6	931.2	910.8	867.6	850.2
15°	1139.7	1158.8	1146.6	1118.5	1119.2	1097.0	1055.7	1010.5	986.4	948.6	897.1
17.5°	1257.9	1260.3	1255.1	1231.7	1216.0	1185.6	1147.5	1104.2	1055.4	1009.7	955.0
20°	1320.9	1319.0	1308.1	1295.8	1269.0	1245.3	1203.7	1155.4	1092.9	1047.9	988.3
22.5°	1355.8	1352.7	1347.5	1337.3	1315.0	1289.5	1252.2	1199.3	1139.9	1077.9	1009.0
25°	1352.7	1356.7	1357.4	1354.5	1346.8	1331.5	1302.1	1260.0	1200.6	1121.0	1049.2
27.5°	1230.3	1236.0	1252.7	1267.5	1284.1	1300.9	1298.7	1277.7	1233.9	1165.1	1077.3
30°	1107.9	1095.4	1126.3	1165.3	1191.9	1238.7	1264.9	1266.5	1241.9	1182.8	1097.2
32.5°	938.0	951.8	965.4	1013.4	1071.5	1124.1	1176.2	1218.3	1223.1	1183.8	1109.0
35°	728.8	746.0	770.9	796.0	858.4	912.1	1003.9	1083.9	1147.5	1155.9	1110.0
37.5°	587.3	595.8	611.6	636.6	677.4	741.2	812.2	913.2	1005.5	1074.2	1077.2
40°	513.3	515.8	533.6	552.7	585.8	638.2	702.3	791.6	902.1	998.0	1038.0
42.5°	457.9	463.4	470.9	489.3	515.6	555.1	614.6	688.4	789.7	900.0	978.2
45°	393.5	399.7	404.4	416.5	435.3	461.8	503.4	570.8	647.9	761.9	867.2
47.5°	350.8	351.3	354.8	364.0	376.7	396.7	426.1	469.4	540.2	632.6	740.7
50°	320.4	325.4	326.6	333.8	343.8	358.5	382.9	419.6	477.8	559.0	658.3
52.5°	298.9	300.4	303.9	309.1	317.8	329.2	350.3	379.2	424.8	494.0	585.3
55°	267.3	267.3	270.8	274.8	279.8	290.1	304.1	325.4	360.0	413.8	489.3
57.5°	238.1	239.6	242.1	243.3	247.5	254.4	266.1	282.3	308.1	349.4	409.5
60°	218.6	221.4	221.1	223.6	227.3	232.6	242.6	255.8	278.8	311.9	362.6
62.5°	201.6	201.4	201.4	204.3	208.1	213.1	219.6	231.0	250.6	280.0	323.0
65°	173.6	173.0	175.2	177.1	178.3	182.1	187.0	197.1	210.2	232.0	265.4
67.5°	148.8	146.9	148.1	148.8	150.9	153.8	158.5	164.7	175.1	192.7	217.8
70°	131.8	130.2	129.9	130.5	132.4	134.6	138.0	144.0	153.6	167.7	186.1
72.5°	114.3	113.2	113.2	114.5	115.4	116.8	119.3	124.7	132.4	142.9	160.1
75°	89.3	89.3	89.3	89.6	90.6	91.8	93.7	96.4	102.4	109.9	121.5
77.5°	66.9	66.9	66.5	66.4	67.8	68.4	68.8	71.4	74.8	79.8	88.2
80°	52.4	50.9	51.5	52.4	53.1	53.4	54.3	55.0	57.8	60.6	66.5
82.5°	39.0	37.7	37.7	39.2	39.4	39.6	40.6	41.5	42.6	45.1	48.3
85°	20.6	20.6	21.0	21.0	21.2	21.0	21.9	22.2	22.2	23.7	25.6
87.5°	14.8	14.2	14.3	14.5	14.1	14.2	14.3	14.3	14.3	14.3	13.9
90°	36.5	36.0	35.5	35.0	34.4	33.6	32.5	31.4	30.3	29.3	25.8
92.5°	40.4	40.1	39.8	39.5	39.1	38.2	36.4	34.7	32.9	31.2	28.5
95°	46.3	46.3	46.3	46.3	46.3	45.3	43.5	41.6	39.7	37.7	34.8
97.5°	50.2	50.0	49.7	49.4	49.2	47.9	45.7	43.6	41.4	39.2	58.8
100°	51.2	51.0	50.6	50.4	50.1	48.9	46.7	44.5	42.4	40.2	82.5
102.5°	52.2	51.7	51.2	50.7	50.2	53.3	60.1	66.8	73.5	80.2	126.4
105°	53.6	53.1	52.6	52.0	51.4	75.2	123.1	171.0	219.0	266.9	291.3
107.5°	168.4	204.6	240.7	276.9	313.0	348.6	383.8	418.9	454.1	489.3	485.4
110°	335.2	373.9	412.6	451.3	490.1	514.0	522.9	531.8	540.8	549.7	546.7



TEST NUMBER: P332144-930

CATALOG NUMBER: S123DIW-S560D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	575.0	583.3	591.4	599.6	607.8	611.8	611.6	611.5	611.3	611.1	608.1
115°	716.7	715.6	714.5	713.5	712.3	710.5	707.8	705.1	702.3	699.6	697.2
117.5°	796.1	796.0	795.7	795.5	795.3	794.1	791.9	789.8	787.6	785.5	784.2
120°	850.8	850.8	850.8	850.8	850.8	849.7	847.5	845.4	843.2	841.0	840.2
122.5°	904.4	904.2	903.9	903.8	903.5	902.7	901.2	899.6	898.1	896.6	895.5
125°	980.0	979.4	978.8	978.4	977.8	977.2	976.7	976.2	975.7	975.1	974.0
127.5°	1052.6	1053.1	1053.7	1054.3	1054.8	1054.6	1053.8	1052.9	1052.0	1051.2	1049.9
130°	1099.4	1099.9	1100.5	1101.1	1101.6	1101.3	1100.2	1099.1	1098.0	1097.0	1095.9
132.5°	1142.3	1143.0	1143.9	1144.6	1145.3	1145.2	1144.1	1143.0	1141.9	1140.8	1140.0
135°	1207.9	1208.7	1209.5	1210.3	1211.1	1211.1	1210.3	1209.5	1208.7	1207.9	1206.8
137.5°	1269.6	1270.1	1270.6	1271.2	1271.7	1271.4	1270.1	1268.8	1267.5	1266.2	1265.6
140°	1306.6	1307.2	1307.7	1308.2	1308.8	1308.5	1307.4	1306.4	1305.3	1304.2	1303.3
142.5°	1340.8	1341.5	1342.2	1343.0	1343.8	1343.7	1342.9	1342.0	1341.1	1340.3	1339.5
145°	1393.2	1393.2	1393.2	1393.2	1393.2	1392.9	1392.4	1391.8	1391.2	1390.7	1390.2
147.5°	1432.2	1433.4	1434.7	1435.9	1437.1	1437.5	1437.0	1436.4	1435.9	1435.3	1434.8
150°	1461.4	1462.2	1463.1	1463.9	1464.7	1464.8	1464.3	1463.7	1463.1	1462.6	1462.1
152.5°	1484.8	1486.0	1487.3	1488.6	1489.8	1490.0	1489.0	1488.0	1487.0	1486.0	1485.7
155°	1517.5	1519.1	1520.7	1522.3	1524.0	1524.1	1522.7	1521.4	1520.0	1518.7	1518.4
157.5°	1545.0	1547.1	1549.2	1551.4	1553.5	1553.7	1552.1	1550.5	1548.8	1547.2	1547.5
160°	1562.6	1564.5	1566.4	1568.2	1570.2	1570.3	1568.6	1567.1	1565.5	1563.8	1564.1
162.5°	1579.2	1580.9	1582.5	1584.2	1585.8	1585.8	1584.0	1582.1	1580.3	1578.4	1578.7
165°	1599.1	1601.0	1603.0	1604.8	1606.7	1606.6	1604.4	1602.2	1600.1	1597.9	1598.2
167.5°	1613.6	1615.7	1617.9	1620.0	1622.2	1622.2	1620.0	1617.9	1615.7	1613.6	1613.6
170°	1622.3	1624.5	1626.6	1628.8	1631.0	1631.0	1628.8	1626.6	1624.5	1622.3	1622.3
172.5°	1627.2	1629.5	1632.0	1634.3	1636.7	1636.8	1634.7	1632.5	1630.4	1628.2	1627.9
175°	1634.5	1636.6	1638.8	1641.0	1643.2	1643.3	1641.4	1639.5	1637.6	1635.7	1635.4
177.5°	1636.7	1638.8	1641.0	1643.2	1645.4	1645.6	1643.8	1642.1	1640.4	1638.7	1638.4
180°	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5



TEST NUMBER: P332144-930

CATALOG NUMBER: S123DIW-S560D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	664.5	662.5	660.5	657.0	654.0	649.7	648.5	647.0	642.5	638.5	635.5
5°	705.1	697.6	686.6	676.6	668.5	657.6	651.3	644.8	635.4	627.0	620.1
7.5°	747.5	732.8	715.8	697.5	680.4	663.8	650.5	638.7	625.6	613.1	603.5
10°	781.3	760.0	736.3	710.7	688.8	667.6	649.8	634.2	617.3	602.7	590.4
12.5°	819.7	788.2	755.5	724.4	698.5	669.1	647.6	627.7	608.6	590.9	577.2
15°	865.3	825.3	786.6	743.8	704.4	667.6	642.0	617.0	594.8	576.7	559.2
17.5°	906.7	861.4	810.4	758.4	710.9	667.2	631.4	603.2	575.4	553.3	535.8
20°	930.2	878.6	820.9	766.9	714.4	665.7	626.4	592.6	562.7	539.2	519.6
22.5°	950.5	890.1	830.4	772.7	714.2	661.7	617.2	582.4	549.9	527.0	506.1
25°	971.4	899.3	839.4	771.6	706.3	652.0	602.0	562.7	530.2	503.4	481.8
27.5°	989.4	898.7	827.5	754.6	694.0	639.5	586.2	544.0	509.5	480.3	458.4
30°	1001.4	899.9	815.3	743.1	682.0	625.7	573.9	531.5	495.2	465.5	445.0
32.5°	1008.9	899.2	804.0	727.2	663.0	613.3	560.7	516.7	479.5	450.4	430.5
35°	1013.3	893.6	784.7	694.1	632.3	583.9	539.9	494.3	455.3	428.1	405.6
37.5°	1004.5	882.2	762.2	662.3	594.6	547.0	509.9	471.1	433.7	403.8	384.4
40°	990.8	874.7	744.7	639.8	568.6	522.7	491.2	453.1	416.2	387.8	369.7
42.5°	964.6	859.4	725.5	614.8	541.6	495.7	466.7	434.9	400.0	373.3	355.2
45°	900.6	826.2	696.7	577.4	501.8	454.4	428.8	405.6	374.1	348.1	332.6
47.5°	811.7	776.3	654.9	537.9	460.2	414.6	387.9	369.3	346.3	325.4	310.4
50°	750.1	735.4	626.7	510.9	432.4	387.8	362.2	345.4	328.8	307.9	294.2
52.5°	678.8	687.9	593.7	482.9	404.2	360.4	336.2	322.9	307.9	290.7	278.7
55°	578.6	611.4	536.8	435.9	362.2	320.4	297.6	285.7	277.0	264.2	253.9
57.5°	484.8	526.4	475.2	387.5	320.9	284.9	263.0	250.1	244.4	237.7	229.7
60°	429.0	470.3	431.2	355.1	293.2	258.9	239.5	228.6	223.0	218.3	211.4
62.5°	379.4	421.0	388.2	322.0	266.0	234.2	217.3	206.6	202.2	199.7	193.9
65°	311.0	346.9	325.1	270.8	227.0	198.9	183.6	176.1	172.0	171.1	167.4
67.5°	253.2	280.5	264.6	224.5	190.1	165.8	152.9	146.5	143.4	143.1	140.2
70°	215.2	240.8	228.6	192.3	162.7	143.7	132.4	126.8	124.9	124.6	123.0
72.5°	185.6	203.5	193.9	163.6	140.7	123.4	115.1	109.3	107.1	107.6	106.6
75°	137.4	150.8	145.2	124.3	105.8	94.6	87.7	84.0	82.1	83.1	81.8
77.5°	98.9	107.4	102.3	87.8	76.5	68.3	63.3	61.0	59.3	59.2	58.6
80°	74.6	79.7	76.8	68.1	58.7	51.9	47.8	46.2	45.2	45.0	44.7
82.5°	53.2	57.4	54.1	48.1	41.7	37.6	35.3	33.3	32.5	32.7	32.4
85°	26.8	28.5	27.1	23.4	21.0	19.1	17.8	16.9	16.2	16.6	15.9
87.5°	13.7	13.2	11.7	10.2	9.1	7.8	7.3	6.3	6.3	6.8	7.1
90°	22.2	18.7	15.2	12.1	9.4	6.6	3.9	1.2	3.9	6.6	9.4
92.5°	25.9	23.2	20.5	19.6	20.4	21.1	21.9	22.7	21.9	21.1	20.4
95°	31.8	28.9	25.8	29.9	41.0	52.2	63.3	74.4	63.3	52.2	41.0
97.5°	78.3	97.8	117.2	129.5	134.4	139.5	144.5	149.4	144.5	139.5	134.4
100°	124.7	167.0	209.2	227.6	222.3	216.8	211.4	206.0	211.4	216.8	222.3
102.5°	172.5	218.7	264.8	285.9	282.0	278.2	274.3	270.4	274.3	278.2	282.0
105°	315.7	340.1	364.4	375.1	372.2	369.2	366.2	363.2	366.2	369.2	372.2
107.5°	481.6	477.7	473.9	470.8	468.4	465.9	463.6	461.2	463.6	465.9	468.4
110°	543.7	540.8	537.8	535.2	533.0	530.8	528.7	526.5	528.7	530.8	533.0



TEST NUMBER: P332144-930

CATALOG NUMBER: S123DIW-S560D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	605.2	602.2	599.2	596.7	594.8	592.9	590.9	589.0	590.9	592.9	594.8
115°	694.7	692.4	689.9	687.9	686.2	684.6	683.0	681.3	683.0	684.6	686.2
117.5°	782.9	781.7	780.5	778.9	776.8	774.8	772.8	770.8	772.8	774.8	776.8
120°	839.4	838.5	837.8	836.2	833.7	831.3	828.8	826.4	828.8	831.3	833.7
122.5°	894.5	893.5	892.5	891.0	888.9	887.0	884.9	883.0	884.9	887.0	888.9
125°	972.9	971.8	970.8	969.1	966.9	964.8	962.6	960.4	962.6	964.8	966.9
127.5°	1048.6	1047.3	1045.9	1044.2	1042.0	1039.9	1037.7	1035.5	1037.7	1039.9	1042.0
130°	1094.8	1093.7	1092.7	1091.0	1088.8	1086.7	1084.5	1082.3	1084.5	1086.7	1088.8
132.5°	1139.1	1138.2	1137.4	1135.9	1133.7	1131.6	1129.4	1127.2	1129.4	1131.6	1133.7
135°	1205.7	1204.6	1203.5	1202.2	1200.6	1199.0	1197.3	1195.7	1197.3	1199.0	1200.6
137.5°	1264.9	1264.4	1263.8	1262.4	1260.4	1258.3	1256.3	1254.2	1256.3	1258.3	1260.4
140°	1302.5	1301.7	1300.9	1299.8	1298.1	1296.5	1294.9	1293.2	1294.9	1296.5	1298.1
142.5°	1338.6	1337.8	1337.0	1335.8	1334.2	1332.5	1330.9	1329.3	1330.9	1332.5	1334.2
145°	1389.6	1389.1	1388.5	1387.3	1385.4	1383.6	1381.6	1379.7	1381.6	1383.6	1385.4
147.5°	1434.3	1433.7	1433.1	1432.2	1431.0	1429.8	1428.6	1427.3	1428.6	1429.8	1431.0
150°	1461.6	1461.0	1460.4	1459.8	1459.0	1458.2	1457.3	1456.5	1457.3	1458.2	1459.0
152.5°	1485.4	1485.1	1484.7	1484.4	1484.0	1483.6	1483.3	1482.9	1483.3	1483.6	1484.0
155°	1518.2	1517.9	1517.6	1517.8	1518.3	1518.8	1519.4	1519.9	1519.4	1518.8	1518.3
157.5°	1547.8	1548.0	1548.3	1548.5	1548.5	1548.6	1548.7	1548.7	1548.7	1548.6	1548.5
160°	1564.3	1564.6	1564.9	1565.1	1565.5	1565.7	1565.9	1566.3	1565.9	1565.7	1565.5
162.5°	1579.0	1579.2	1579.5	1580.0	1580.7	1581.4	1582.1	1582.8	1582.1	1581.4	1580.7
165°	1598.5	1598.7	1599.0	1599.5	1600.4	1601.2	1602.0	1602.8	1602.0	1601.2	1600.4
167.5°	1613.6	1613.6	1613.6	1614.0	1615.2	1616.2	1617.3	1618.4	1617.3	1616.2	1615.2
170°	1622.3	1622.3	1622.3	1622.9	1623.9	1625.0	1626.1	1627.2	1626.1	1625.0	1623.9
172.5°	1627.7	1627.5	1627.3	1627.8	1629.1	1630.4	1631.7	1633.0	1631.7	1630.4	1629.1
175°	1635.2	1634.9	1634.6	1635.2	1636.6	1637.9	1639.2	1640.5	1639.2	1637.9	1636.6
177.5°	1638.2	1638.0	1637.8	1638.2	1639.3	1640.4	1641.4	1642.5	1641.4	1640.4	1639.3
180°	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5



TEST NUMBER: P332144-930

CATALOG NUMBER: S123DIW-S560D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	633.7	632.0	629.5	625.7	622.7	618.0	618.0	618.7	618.7	618.5	618.0
5°	614.5	609.8	604.2	597.7	590.8	583.9	582.7	580.2	578.3	577.1	575.5
7.5°	594.2	586.0	577.7	568.6	560.2	553.3	548.5	544.5	541.8	539.2	537.1
10°	580.5	570.1	560.5	550.8	540.2	531.7	526.4	522.7	519.9	517.4	516.2
12.5°	564.3	552.4	541.8	532.6	521.0	512.3	507.2	505.5	502.1	496.9	494.2
15°	540.5	529.6	516.8	502.7	497.1	486.5	480.5	477.8	475.9	471.8	470.6
17.5°	520.2	505.9	491.5	481.0	470.6	462.0	458.7	455.2	452.7	449.4	448.4
20°	504.0	491.2	478.1	466.8	455.9	446.5	443.7	441.2	438.7	437.2	435.9
22.5°	487.5	474.7	463.8	453.3	441.6	435.5	432.4	429.7	428.0	426.9	425.7
25°	464.3	453.1	440.9	431.5	422.2	418.1	416.2	414.7	413.4	411.9	411.6
27.5°	443.6	431.4	421.5	412.7	406.0	402.6	400.8	400.1	400.3	400.9	401.2
30°	428.1	416.9	408.7	401.2	395.0	391.9	391.6	391.6	392.8	393.1	393.8
32.5°	413.8	404.6	396.5	389.2	384.5	382.4	383.6	383.6	384.6	385.4	386.5
35°	393.1	385.0	378.8	372.5	368.4	369.4	370.0	370.6	372.2	374.1	375.4
37.5°	373.3	366.3	359.8	354.9	353.0	354.7	356.2	357.5	359.4	360.8	362.0
40°	359.1	353.8	347.6	343.2	343.8	344.7	346.0	347.6	349.1	350.0	351.3
42.5°	345.8	340.3	335.6	331.9	332.8	334.0	334.8	335.6	337.4	339.1	339.8
45°	325.7	321.3	316.9	314.8	315.4	316.0	316.7	317.6	319.1	320.4	320.7
47.5°	303.0	299.9	297.0	294.9	295.9	295.6	296.4	298.5	299.0	299.7	301.4
50°	288.5	285.7	282.3	281.7	281.7	281.7	281.9	284.5	284.5	285.7	287.0
52.5°	272.6	270.8	268.6	267.4	266.9	266.9	268.2	269.5	269.9	271.7	273.0
55°	248.8	247.0	245.2	244.2	243.5	244.2	246.7	247.3	248.8	249.8	250.7
57.5°	224.2	222.7	221.3	220.8	220.6	221.4	222.8	224.7	225.1	228.0	229.3
60°	208.0	205.8	204.6	204.6	203.9	206.7	206.1	209.2	209.9	211.7	213.9
62.5°	191.2	188.3	187.8	187.8	188.7	189.5	190.4	191.8	193.4	195.8	197.4
65°	164.3	162.7	164.9	164.5	164.0	165.8	165.8	167.4	169.3	171.5	174.9
67.5°	138.7	137.9	138.1	138.1	139.0	140.1	141.0	142.4	144.6	146.9	149.1
70°	121.5	122.4	120.8	122.1	123.0	123.4	123.9	125.8	128.3	129.9	132.4
72.5°	104.8	104.7	104.8	105.3	106.3	106.9	107.5	109.6	112.3	113.7	115.7
75°	80.6	80.2	81.2	81.2	82.8	83.4	84.0	85.0	87.4	89.3	90.9
77.5°	58.9	59.2	59.0	60.1	59.7	59.8	61.7	62.6	62.9	66.6	67.4
80°	44.4	45.0	45.2	45.6	45.9	45.2	47.5	48.4	48.4	50.5	52.2
82.5°	31.9	32.2	33.0	33.3	33.4	34.0	34.2	34.9	35.6	36.6	38.6
85°	15.9	16.9	17.2	16.9	17.2	16.6	17.4	17.8	18.1	18.1	18.1
87.5°	7.4	8.3	8.7	9.7	10.1	11.1	11.3	11.0	11.3	12.2	11.4
90°	12.1	15.2	18.7	22.2	25.8	29.3	30.3	31.4	32.5	33.6	34.4
92.5°	19.6	20.5	23.2	25.9	28.5	31.2	32.9	34.7	36.4	38.2	39.1
95°	29.9	25.8	28.9	31.8	34.8	37.7	39.7	41.6	43.5	45.3	46.3
97.5°	129.5	117.2	97.8	78.3	58.8	39.2	41.4	43.6	45.7	47.9	49.2
100°	227.6	209.2	167.0	124.7	82.5	40.2	42.4	44.5	46.7	48.9	50.1
102.5°	285.9	264.8	218.7	172.5	126.4	80.2	73.5	66.8	60.1	53.3	50.2
105°	375.1	364.4	340.1	315.7	291.3	266.9	219.0	171.0	123.1	75.2	51.4
107.5°	470.8	473.9	477.7	481.6	485.4	489.3	454.1	418.9	383.8	348.6	313.0
110°	535.2	537.8	540.8	543.7	546.7	549.7	540.8	531.8	522.9	514.0	490.1



TEST NUMBER: P332144-930

CATALOG NUMBER: S123DIW-S560D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	596.7	599.2	602.2	605.2	608.1	611.1	611.3	611.5	611.6	611.8	607.8
115°	687.9	689.9	692.4	694.7	697.2	699.6	702.3	705.1	707.8	710.5	712.3
117.5°	778.9	780.5	781.7	782.9	784.2	785.5	787.6	789.8	791.9	794.1	795.3
120°	836.2	837.8	838.5	839.4	840.2	841.0	843.2	845.4	847.5	849.7	850.8
122.5°	891.0	892.5	893.5	894.5	895.5	896.6	898.1	899.6	901.2	902.7	903.5
125°	969.1	970.8	971.8	972.9	974.0	975.1	975.7	976.2	976.7	977.2	977.8
127.5°	1044.2	1045.9	1047.3	1048.6	1049.9	1051.2	1052.0	1052.9	1053.8	1054.6	1054.8
130°	1091.0	1092.7	1093.7	1094.8	1095.9	1097.0	1098.0	1099.1	1100.2	1101.3	1101.6
132.5°	1135.9	1137.4	1138.2	1139.1	1140.0	1140.8	1141.9	1143.0	1144.1	1145.2	1145.3
135°	1202.2	1203.5	1204.6	1205.7	1206.8	1207.9	1208.7	1209.5	1210.3	1211.1	1211.1
137.5°	1262.4	1263.8	1264.4	1264.9	1265.6	1266.2	1267.5	1268.8	1270.1	1271.4	1271.7
140°	1299.8	1300.9	1301.7	1302.5	1303.3	1304.2	1305.3	1306.4	1307.4	1308.5	1308.8
142.5°	1335.8	1337.0	1337.8	1338.6	1339.5	1340.3	1341.1	1342.0	1342.9	1343.7	1343.8
145°	1387.3	1388.5	1389.1	1389.6	1390.2	1390.7	1391.2	1391.8	1392.4	1392.9	1393.2
147.5°	1432.2	1433.1	1433.7	1434.3	1434.8	1435.3	1435.9	1436.4	1437.0	1437.5	1437.1
150°	1459.8	1460.4	1461.0	1461.6	1462.1	1462.6	1463.1	1463.7	1464.3	1464.8	1464.7
152.5°	1484.4	1484.7	1485.1	1485.4	1485.7	1486.0	1487.0	1488.0	1489.0	1490.0	1489.8
155°	1517.8	1517.6	1517.9	1518.2	1518.4	1518.7	1520.0	1521.4	1522.7	1524.1	1524.0
157.5°	1548.5	1548.3	1548.0	1547.8	1547.5	1547.2	1548.8	1550.5	1552.1	1553.7	1553.5
160°	1565.1	1564.9	1564.6	1564.3	1564.1	1563.8	1565.5	1567.1	1568.6	1570.3	1570.2
162.5°	1580.0	1579.5	1579.2	1579.0	1578.7	1578.4	1580.3	1582.1	1584.0	1585.8	1585.8
165°	1599.5	1599.0	1598.7	1598.5	1598.2	1597.9	1600.1	1602.2	1604.4	1606.6	1606.7
167.5°	1614.0	1613.6	1613.6	1613.6	1613.6	1613.6	1615.7	1617.9	1620.0	1622.2	1622.2
170°	1622.9	1622.3	1622.3	1622.3	1622.3	1622.3	1624.5	1626.6	1628.8	1631.0	1631.0
172.5°	1627.8	1627.3	1627.5	1627.7	1627.9	1628.2	1630.4	1632.5	1634.7	1636.8	1636.7
175°	1635.2	1634.6	1634.9	1635.2	1635.4	1635.7	1637.6	1639.5	1641.4	1643.3	1643.2
177.5°	1638.2	1637.8	1638.0	1638.2	1638.4	1638.7	1640.4	1642.1	1643.8	1645.6	1645.4
180°	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5



TEST NUMBER: P332144-930

CATALOG NUMBER: S123DIW-S560D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	616.3	616.0	617.8	616.5	617.8	616.0	616.3	618.0	618.5	618.7	618.7
5°	573.6	574.5	571.4	571.4	571.4	574.5	573.6	575.5	577.1	578.3	580.2
7.5°	535.7	534.3	534.4	532.7	534.4	534.3	535.7	537.1	539.2	541.8	544.5
10°	512.4	510.5	509.9	510.2	509.9	510.5	512.4	516.2	517.4	519.9	522.7
12.5°	493.2	492.8	488.7	488.8	488.7	492.8	493.2	494.2	496.9	502.1	505.5
15°	470.6	464.6	464.0	465.9	464.0	464.6	470.6	470.6	471.8	475.9	477.8
17.5°	447.9	444.7	445.0	444.0	445.0	444.7	447.9	448.4	449.4	452.7	455.2
20°	435.9	434.1	433.7	431.5	433.7	434.1	435.9	435.9	437.2	438.7	441.2
22.5°	424.9	424.3	424.4	422.1	424.4	424.3	424.9	425.7	426.9	428.0	429.7
25°	411.2	412.8	411.6	411.6	411.6	412.8	411.2	411.6	411.9	413.4	414.7
27.5°	402.0	401.9	401.3	401.3	401.3	401.9	402.0	401.2	400.9	400.3	400.1
30°	395.0	394.7	395.3	395.3	395.3	394.7	395.0	393.8	393.1	392.8	391.6
32.5°	388.0	388.4	388.6	388.8	388.6	388.4	388.0	386.5	385.4	384.6	383.6
35°	377.2	377.5	378.5	377.8	378.5	377.5	377.2	375.4	374.1	372.2	370.6
37.5°	362.6	364.0	363.7	364.2	363.7	364.0	362.6	362.0	360.8	359.4	357.5
40°	351.6	352.5	352.2	352.2	352.2	352.5	351.6	351.3	350.0	349.1	347.6
42.5°	340.4	341.0	340.2	339.7	340.2	341.0	340.4	339.8	339.1	337.4	335.6
45°	322.0	321.3	322.3	321.0	322.3	321.3	322.0	320.7	320.4	319.1	317.6
47.5°	301.3	302.0	302.2	303.1	302.2	302.0	301.3	301.4	299.7	299.0	298.5
50°	287.6	289.4	289.4	289.2	289.4	289.4	287.6	287.0	285.7	284.5	284.5
52.5°	274.1	275.0	276.2	276.1	276.2	275.0	274.1	273.0	271.7	269.9	269.5
55°	253.2	253.9	254.5	254.8	254.5	253.9	253.2	250.7	249.8	248.8	247.3
57.5°	231.6	231.4	232.8	233.3	232.8	231.4	231.6	229.3	228.0	225.1	224.7
60°	216.4	216.4	218.9	219.8	218.9	216.4	216.4	213.9	211.7	209.9	209.2
62.5°	200.2	201.1	203.7	202.4	203.7	201.1	200.2	197.4	195.8	193.4	191.8
65°	176.4	179.0	178.6	179.9	178.6	179.0	176.4	174.9	171.5	169.3	167.4
67.5°	151.6	153.2	155.5	155.6	155.5	153.2	151.6	149.1	146.9	144.6	142.4
70°	134.9	136.5	137.7	138.6	137.7	136.5	134.9	132.4	129.9	128.3	125.8
72.5°	118.6	119.4	122.5	121.2	122.5	119.4	118.6	115.7	113.7	112.3	109.6
75°	93.0	95.2	97.1	96.2	97.1	95.2	93.0	90.9	89.3	87.4	85.0
77.5°	68.8	71.0	71.9	71.1	71.9	71.0	68.8	67.4	66.6	62.9	62.6
80°	54.3	54.1	55.9	55.6	55.9	54.1	54.3	52.2	50.5	48.4	48.4
82.5°	39.9	39.5	40.4	40.6	40.4	39.5	39.9	38.6	36.6	35.6	34.9
85°	19.3	20.3	19.1	18.8	19.1	20.3	19.3	18.1	18.1	18.1	17.8
87.5°	11.5	11.6	11.4	11.3	11.4	11.6	11.5	11.4	12.2	11.3	11.0
90°	35.0	35.5	36.0	36.5	36.0	35.5	35.0	34.4	33.6	32.5	31.4
92.5°	39.5	39.8	40.1	40.4	40.1	39.8	39.5	39.1	38.2	36.4	34.7
95°	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	45.3	43.5	41.6
97.5°	49.4	49.7	50.0	50.2	50.0	49.7	49.4	49.2	47.9	45.7	43.6
100°	50.4	50.6	51.0	51.2	51.0	50.6	50.4	50.1	48.9	46.7	44.5
102.5°	50.7	51.2	51.7	52.2	51.7	51.2	50.7	50.2	53.3	60.1	66.8
105°	52.0	52.6	53.1	53.6	53.1	52.6	52.0	51.4	75.2	123.1	171.0
107.5°	276.9	240.7	204.6	168.4	204.6	240.7	276.9	313.0	348.6	383.8	418.9
110°	451.3	412.6	373.9	335.2	373.9	412.6	451.3	490.1	514.0	522.9	531.8



TEST NUMBER: P332144-930

CATALOG NUMBER: S123DIW-S560D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	599.6	591.4	583.3	575.0	583.3	591.4	599.6	607.8	611.8	611.6	611.5
115°	713.5	714.5	715.6	716.7	715.6	714.5	713.5	712.3	710.5	707.8	705.1
117.5°	795.5	795.7	796.0	796.1	796.0	795.7	795.5	795.3	794.1	791.9	789.8
120°	850.8	850.8	850.8	850.8	850.8	850.8	850.8	850.8	849.7	847.5	845.4
122.5°	903.8	903.9	904.2	904.4	904.2	903.9	903.8	903.5	902.7	901.2	899.6
125°	978.4	978.8	979.4	980.0	979.4	978.8	978.4	977.8	977.2	976.7	976.2
127.5°	1054.3	1053.7	1053.1	1052.6	1053.1	1053.7	1054.3	1054.8	1054.6	1053.8	1052.9
130°	1101.1	1100.5	1099.9	1099.4	1099.9	1100.5	1101.1	1101.6	1101.3	1100.2	1099.1
132.5°	1144.6	1143.9	1143.0	1142.3	1143.0	1143.9	1144.6	1145.3	1145.2	1144.1	1143.0
135°	1210.3	1209.5	1208.7	1207.9	1208.7	1209.5	1210.3	1211.1	1211.1	1210.3	1209.5
137.5°	1271.2	1270.6	1270.1	1269.6	1270.1	1270.6	1271.2	1271.7	1271.4	1270.1	1268.8
140°	1308.2	1307.7	1307.2	1306.6	1307.2	1307.7	1308.2	1308.8	1308.5	1307.4	1306.4
142.5°	1343.0	1342.2	1341.5	1340.8	1341.5	1342.2	1343.0	1343.8	1343.7	1342.9	1342.0
145°	1393.2	1393.2	1393.2	1393.2	1393.2	1393.2	1393.2	1393.2	1392.9	1392.4	1391.8
147.5°	1435.9	1434.7	1433.4	1432.2	1433.4	1434.7	1435.9	1437.1	1437.5	1437.0	1436.4
150°	1463.9	1463.1	1462.2	1461.4	1462.2	1463.1	1463.9	1464.7	1464.8	1464.3	1463.7
152.5°	1488.6	1487.3	1486.0	1484.8	1486.0	1487.3	1488.6	1489.8	1490.0	1489.0	1488.0
155°	1522.3	1520.7	1519.1	1517.5	1519.1	1520.7	1522.3	1524.0	1524.1	1522.7	1521.4
157.5°	1551.4	1549.2	1547.1	1545.0	1547.1	1549.2	1551.4	1553.5	1553.7	1552.1	1550.5
160°	1568.2	1566.4	1564.5	1562.6	1564.5	1566.4	1568.2	1570.2	1570.3	1568.6	1567.1
162.5°	1584.2	1582.5	1580.9	1579.2	1580.9	1582.5	1584.2	1585.8	1585.8	1584.0	1582.1
165°	1604.8	1603.0	1601.0	1599.1	1601.0	1603.0	1604.8	1606.7	1606.6	1604.4	1602.2
167.5°	1620.0	1617.9	1615.7	1613.6	1615.7	1617.9	1620.0	1622.2	1622.2	1620.0	1617.9
170°	1628.8	1626.6	1624.5	1622.3	1624.5	1626.6	1628.8	1631.0	1631.0	1628.8	1626.6
172.5°	1634.3	1632.0	1629.5	1627.2	1629.5	1632.0	1634.3	1636.7	1636.8	1634.7	1632.5
175°	1641.0	1638.8	1636.6	1634.5	1636.6	1638.8	1641.0	1643.2	1643.3	1641.4	1639.5
177.5°	1643.2	1641.0	1638.8	1636.7	1638.8	1641.0	1643.2	1645.4	1645.6	1643.8	1642.1
180°	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5



TEST NUMBER: P332144-930

CATALOG NUMBER: S123DIW-S560D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	618.0	618.0	622.7	625.7	629.5	632.0	633.7	635.5	638.5	642.5	647.0
5°	582.7	583.9	590.8	597.7	604.2	609.8	614.5	620.1	627.0	635.4	644.8
7.5°	548.5	553.3	560.2	568.6	577.7	586.0	594.2	603.5	613.1	625.6	638.7
10°	526.4	531.7	540.2	550.8	560.5	570.1	580.5	590.4	602.7	617.3	634.2
12.5°	507.2	512.3	521.0	532.6	541.8	552.4	564.3	577.2	590.9	608.6	627.7
15°	480.5	486.5	497.1	502.7	516.8	529.6	540.5	559.2	576.7	594.8	617.0
17.5°	458.7	462.0	470.6	481.0	491.5	505.9	520.2	535.8	553.3	575.4	603.2
20°	443.7	446.5	455.9	466.8	478.1	491.2	504.0	519.6	539.2	562.7	592.6
22.5°	432.4	435.5	441.6	453.3	463.8	474.7	487.5	506.1	527.0	549.9	582.4
25°	416.2	418.1	422.2	431.5	440.9	453.1	464.3	481.8	503.4	530.2	562.7
27.5°	400.8	402.6	406.0	412.7	421.5	431.4	443.6	458.4	480.3	509.5	544.0
30°	391.6	391.9	395.0	401.2	408.7	416.9	428.1	445.0	465.5	495.2	531.5
32.5°	383.6	382.4	384.5	389.2	396.5	404.6	413.8	430.5	450.4	479.5	516.7
35°	370.0	369.4	368.4	372.5	378.8	385.0	393.1	405.6	428.1	455.3	494.3
37.5°	356.2	354.7	353.0	354.9	359.8	366.3	373.3	384.4	403.8	433.7	471.1
40°	346.0	344.7	343.8	343.2	347.6	353.8	359.1	369.7	387.8	416.2	453.1
42.5°	334.8	334.0	332.8	331.9	335.6	340.3	345.8	355.2	373.3	400.0	434.9
45°	316.7	316.0	315.4	314.8	316.9	321.3	325.7	332.6	348.1	374.1	405.6
47.5°	296.4	295.6	295.9	294.9	297.0	299.9	303.0	310.4	325.4	346.3	369.3
50°	281.9	281.7	281.7	281.7	282.3	285.7	288.5	294.2	307.9	328.8	345.4
52.5°	268.2	266.9	266.9	267.4	268.6	270.8	272.6	278.7	290.7	307.9	322.9
55°	246.7	244.2	243.5	244.2	245.2	247.0	248.8	253.9	264.2	277.0	285.7
57.5°	222.8	221.4	220.6	220.8	221.3	222.7	224.2	229.7	237.7	244.4	250.1
60°	206.1	206.7	203.9	204.6	204.6	205.8	208.0	211.4	218.3	223.0	228.6
62.5°	190.4	189.5	188.7	187.8	187.8	188.3	191.2	193.9	199.7	202.2	206.6
65°	165.8	165.8	164.0	164.5	164.9	162.7	164.3	167.4	171.1	172.0	176.1
67.5°	141.0	140.1	139.0	138.1	138.1	137.9	138.7	140.2	143.1	143.4	146.5
70°	123.9	123.4	123.0	122.1	120.8	122.4	121.5	123.0	124.6	124.9	126.8
72.5°	107.5	106.9	106.3	105.3	104.8	104.7	104.8	106.6	107.6	107.1	109.3
75°	84.0	83.4	82.8	81.2	81.2	80.2	80.6	81.8	83.1	82.1	84.0
77.5°	61.7	59.8	59.7	60.1	59.0	59.2	58.9	58.6	59.2	59.3	61.0
80°	47.5	45.2	45.9	45.6	45.2	45.0	44.4	44.7	45.0	45.2	46.2
82.5°	34.2	34.0	33.4	33.3	33.0	32.2	31.9	32.4	32.7	32.5	33.3
85°	17.4	16.6	17.2	16.9	17.2	16.9	15.9	15.9	16.6	16.2	16.9
87.5°	11.3	11.1	10.1	9.7	8.7	8.3	7.4	7.1	6.8	6.3	6.3
90°	30.3	29.3	25.8	22.2	18.7	15.2	12.1	9.4	6.6	3.9	1.2
92.5°	32.9	31.2	28.5	25.9	23.2	20.5	19.6	20.4	21.1	21.9	22.7
95°	39.7	37.7	34.8	31.8	28.9	25.8	29.9	41.0	52.2	63.3	74.4
97.5°	41.4	39.2	58.8	78.3	97.8	117.2	129.5	134.4	139.5	144.5	149.4
100°	42.4	40.2	82.5	124.7	167.0	209.2	227.6	222.3	216.8	211.4	206.0
102.5°	73.5	80.2	126.4	172.5	218.7	264.8	285.9	282.0	278.2	274.3	270.4
105°	219.0	266.9	291.3	315.7	340.1	364.4	375.1	372.2	369.2	366.2	363.2
107.5°	454.1	489.3	485.4	481.6	477.7	473.9	470.8	468.4	465.9	463.6	461.2
110°	540.8	549.7	546.7	543.7	540.8	537.8	535.2	533.0	530.8	528.7	526.5



TEST NUMBER: P332144-930

CATALOG NUMBER: S123DIW-S560D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	611.3	611.1	608.1	605.2	602.2	599.2	596.7	594.8	592.9	590.9	589.0
115°	702.3	699.6	697.2	694.7	692.4	689.9	687.9	686.2	684.6	683.0	681.3
117.5°	787.6	785.5	784.2	782.9	781.7	780.5	778.9	776.8	774.8	772.8	770.8
120°	843.2	841.0	840.2	839.4	838.5	837.8	836.2	833.7	831.3	828.8	826.4
122.5°	898.1	896.6	895.5	894.5	893.5	892.5	891.0	888.9	887.0	884.9	883.0
125°	975.7	975.1	974.0	972.9	971.8	970.8	969.1	966.9	964.8	962.6	960.4
127.5°	1052.0	1051.2	1049.9	1048.6	1047.3	1045.9	1044.2	1042.0	1039.9	1037.7	1035.5
130°	1098.0	1097.0	1095.9	1094.8	1093.7	1092.7	1091.0	1088.8	1086.7	1084.5	1082.3
132.5°	1141.9	1140.8	1140.0	1139.1	1138.2	1137.4	1135.9	1133.7	1131.6	1129.4	1127.2
135°	1208.7	1207.9	1206.8	1205.7	1204.6	1203.5	1202.2	1200.6	1199.0	1197.3	1195.7
137.5°	1267.5	1266.2	1265.6	1264.9	1264.4	1263.8	1262.4	1260.4	1258.3	1256.3	1254.2
140°	1305.3	1304.2	1303.3	1302.5	1301.7	1300.9	1299.8	1298.1	1296.5	1294.9	1293.2
142.5°	1341.1	1340.3	1339.5	1338.6	1337.8	1337.0	1335.8	1334.2	1332.5	1330.9	1329.3
145°	1391.2	1390.7	1390.2	1389.6	1389.1	1388.5	1387.3	1385.4	1383.6	1381.6	1379.7
147.5°	1435.9	1435.3	1434.8	1434.3	1433.7	1433.1	1432.2	1431.0	1429.8	1428.6	1427.3
150°	1463.1	1462.6	1462.1	1461.6	1461.0	1460.4	1459.8	1459.0	1458.2	1457.3	1456.5
152.5°	1487.0	1486.0	1485.7	1485.4	1485.1	1484.7	1484.4	1484.0	1483.6	1483.3	1482.9
155°	1520.0	1518.7	1518.4	1518.2	1517.9	1517.6	1517.8	1518.3	1518.8	1519.4	1519.9
157.5°	1548.8	1547.2	1547.5	1547.8	1548.0	1548.3	1548.5	1548.5	1548.6	1548.7	1548.7
160°	1565.5	1563.8	1564.1	1564.3	1564.6	1564.9	1565.1	1565.5	1565.7	1565.9	1566.3
162.5°	1580.3	1578.4	1578.7	1579.0	1579.2	1579.5	1580.0	1580.7	1581.4	1582.1	1582.8
165°	1600.1	1597.9	1598.2	1598.5	1598.7	1599.0	1599.5	1600.4	1601.2	1602.0	1602.8
167.5°	1615.7	1613.6	1613.6	1613.6	1613.6	1613.6	1614.0	1615.2	1616.2	1617.3	1618.4
170°	1624.5	1622.3	1622.3	1622.3	1622.3	1622.3	1622.9	1623.9	1625.0	1626.1	1627.2
172.5°	1630.4	1628.2	1627.9	1627.7	1627.5	1627.3	1627.8	1629.1	1630.4	1631.7	1633.0
175°	1637.6	1635.7	1635.4	1635.2	1634.9	1634.6	1635.2	1636.6	1637.9	1639.2	1640.5
177.5°	1640.4	1638.7	1638.4	1638.2	1638.0	1637.8	1638.2	1639.3	1640.4	1641.4	1642.5
180°	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5



TEST NUMBER: P332144-930

CATALOG NUMBER: S123DIW-S560D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	648.5	649.7	654.0	657.0	660.5	662.5	664.5	666.0	668.0	668.5	675.7
5°	651.3	657.6	668.5	676.6	686.6	697.6	705.1	708.5	717.5	725.0	740.0
7.5°	650.5	663.8	680.4	697.5	715.8	732.8	747.5	765.0	777.5	796.1	814.6
10°	649.8	667.6	688.8	710.7	736.3	760.0	781.3	805.0	824.7	850.6	872.8
12.5°	647.6	669.1	698.5	724.4	755.5	788.2	819.7	850.2	867.6	910.8	931.2
15°	642.0	667.6	704.4	743.8	786.6	825.3	865.3	897.1	948.6	986.4	1010.5
17.5°	631.4	667.2	710.9	758.4	810.4	861.4	906.7	955.0	1009.7	1055.4	1104.2
20°	626.4	665.7	714.4	766.9	820.9	878.6	930.2	988.3	1047.9	1092.9	1155.4
22.5°	617.2	661.7	714.2	772.7	830.4	890.1	950.5	1009.0	1077.9	1139.9	1199.3
25°	602.0	652.0	706.3	771.6	839.4	899.3	971.4	1049.2	1121.0	1200.6	1260.0
27.5°	586.2	639.5	694.0	754.6	827.5	898.7	989.4	1077.3	1165.1	1233.9	1277.7
30°	573.9	625.7	682.0	743.1	815.3	899.9	1001.4	1097.2	1182.8	1241.9	1266.5
32.5°	560.7	613.3	663.0	727.2	804.0	899.2	1008.9	1109.0	1183.8	1223.1	1218.3
35°	539.9	583.9	632.3	694.1	784.7	893.6	1013.3	1110.0	1155.9	1147.5	1083.9
37.5°	509.9	547.0	594.6	662.3	762.2	882.2	1004.5	1077.2	1074.2	1005.5	913.2
40°	491.2	522.7	568.6	639.8	744.7	874.7	990.8	1038.0	998.0	902.1	791.6
42.5°	466.7	495.7	541.6	614.8	725.5	859.4	964.6	978.2	900.0	789.7	688.4
45°	428.8	454.4	501.8	577.4	696.7	826.2	900.6	867.2	761.9	647.9	570.8
47.5°	387.9	414.6	460.2	537.9	654.9	776.3	811.7	740.7	632.6	540.2	469.4
50°	362.2	387.8	432.4	510.9	626.7	735.4	750.1	658.3	559.0	477.8	419.6
52.5°	336.2	360.4	404.2	482.9	593.7	687.9	678.8	585.3	494.0	424.8	379.2
55°	297.6	320.4	362.2	435.9	536.8	611.4	578.6	489.3	413.8	360.0	325.4
57.5°	263.0	284.9	320.9	387.5	475.2	526.4	484.8	409.5	349.4	308.1	282.3
60°	239.5	258.9	293.2	355.1	431.2	470.3	429.0	362.6	311.9	278.8	255.8
62.5°	217.3	234.2	266.0	322.0	388.2	421.0	379.4	323.0	280.0	250.6	231.0
65°	183.6	198.9	227.0	270.8	325.1	346.9	311.0	265.4	232.0	210.2	197.1
67.5°	152.9	165.8	190.1	224.5	264.6	280.5	253.2	217.8	192.7	175.1	164.7
70°	132.4	143.7	162.7	192.3	228.6	240.8	215.2	186.1	167.7	153.6	144.0
72.5°	115.1	123.4	140.7	163.6	193.9	203.5	185.6	160.1	142.9	132.4	124.7
75°	87.7	94.6	105.8	124.3	145.2	150.8	137.4	121.5	109.9	102.4	96.4
77.5°	63.3	68.3	76.5	87.8	102.3	107.4	98.9	88.2	79.8	74.8	71.4
80°	47.8	51.9	58.7	68.1	76.8	79.7	74.6	66.5	60.6	57.8	55.0
82.5°	35.3	37.6	41.7	48.1	54.1	57.4	53.2	48.3	45.1	42.6	41.5
85°	17.8	19.1	21.0	23.4	27.1	28.5	26.8	25.6	23.7	22.2	22.2
87.5°	7.3	7.8	9.1	10.2	11.7	13.2	13.7	13.9	14.3	14.3	14.3
90°	3.9	6.6	9.4	12.1	15.2	18.7	22.2	25.8	29.3	30.3	31.4
92.5°	21.9	21.1	20.4	19.6	20.5	23.2	25.9	28.5	31.2	32.9	34.7
95°	63.3	52.2	41.0	29.9	25.8	28.9	31.8	34.8	37.7	39.7	41.6
97.5°	144.5	139.5	134.4	129.5	117.2	97.8	78.3	58.8	39.2	41.4	43.6
100°	211.4	216.8	222.3	227.6	209.2	167.0	124.7	82.5	40.2	42.4	44.5
102.5°	274.3	278.2	282.0	285.9	264.8	218.7	172.5	126.4	80.2	73.5	66.8
105°	366.2	369.2	372.2	375.1	364.4	340.1	315.7	291.3	266.9	219.0	171.0
107.5°	463.6	465.9	468.4	470.8	473.9	477.7	481.6	485.4	489.3	454.1	418.9
110°	528.7	530.8	533.0	535.2	537.8	540.8	543.7	546.7	549.7	540.8	531.8



TEST NUMBER: P332144-930

CATALOG NUMBER: S123DIW-S560D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	590.9	592.9	594.8	596.7	599.2	602.2	605.2	608.1	611.1	611.3	611.5
115°	683.0	684.6	686.2	687.9	689.9	692.4	694.7	697.2	699.6	702.3	705.1
117.5°	772.8	774.8	776.8	778.9	780.5	781.7	782.9	784.2	785.5	787.6	789.8
120°	828.8	831.3	833.7	836.2	837.8	838.5	839.4	840.2	841.0	843.2	845.4
122.5°	884.9	887.0	888.9	891.0	892.5	893.5	894.5	895.5	896.6	898.1	899.6
125°	962.6	964.8	966.9	969.1	970.8	971.8	972.9	974.0	975.1	975.7	976.2
127.5°	1037.7	1039.9	1042.0	1044.2	1045.9	1047.3	1048.6	1049.9	1051.2	1052.0	1052.9
130°	1084.5	1086.7	1088.8	1091.0	1092.7	1093.7	1094.8	1095.9	1097.0	1098.0	1099.1
132.5°	1129.4	1131.6	1133.7	1135.9	1137.4	1138.2	1139.1	1140.0	1140.8	1141.9	1143.0
135°	1197.3	1199.0	1200.6	1202.2	1203.5	1204.6	1205.7	1206.8	1207.9	1208.7	1209.5
137.5°	1256.3	1258.3	1260.4	1262.4	1263.8	1264.4	1264.9	1265.6	1266.2	1267.5	1268.8
140°	1294.9	1296.5	1298.1	1299.8	1300.9	1301.7	1302.5	1303.3	1304.2	1305.3	1306.4
142.5°	1330.9	1332.5	1334.2	1335.8	1337.0	1337.8	1338.6	1339.5	1340.3	1341.1	1342.0
145°	1381.6	1383.6	1385.4	1387.3	1388.5	1389.1	1389.6	1390.2	1390.7	1391.2	1391.8
147.5°	1428.6	1429.8	1431.0	1432.2	1433.1	1433.7	1434.3	1434.8	1435.3	1435.9	1436.4
150°	1457.3	1458.2	1459.0	1459.8	1460.4	1461.0	1461.6	1462.1	1462.6	1463.1	1463.7
152.5°	1483.3	1483.6	1484.0	1484.4	1484.7	1485.1	1485.4	1485.7	1486.0	1487.0	1488.0
155°	1519.4	1518.8	1518.3	1517.8	1517.6	1517.9	1518.2	1518.4	1518.7	1520.0	1521.4
157.5°	1548.7	1548.6	1548.5	1548.5	1548.3	1548.0	1547.8	1547.5	1547.2	1548.8	1550.5
160°	1565.9	1565.7	1565.5	1565.1	1564.9	1564.6	1564.3	1564.1	1563.8	1565.5	1567.1
162.5°	1582.1	1581.4	1580.7	1580.0	1579.5	1579.2	1579.0	1578.7	1578.4	1580.3	1582.1
165°	1602.0	1601.2	1600.4	1599.5	1599.0	1598.7	1598.5	1598.2	1597.9	1600.1	1602.2
167.5°	1617.3	1616.2	1615.2	1614.0	1613.6	1613.6	1613.6	1613.6	1613.6	1615.7	1617.9
170°	1626.1	1625.0	1623.9	1622.9	1622.3	1622.3	1622.3	1622.3	1622.3	1624.5	1626.6
172.5°	1631.7	1630.4	1629.1	1627.8	1627.3	1627.5	1627.7	1627.9	1628.2	1630.4	1632.5
175°	1639.2	1637.9	1636.6	1635.2	1634.6	1634.9	1635.2	1635.4	1635.7	1637.6	1639.5
177.5°	1641.4	1640.4	1639.3	1638.2	1637.8	1638.0	1638.2	1638.4	1638.7	1640.4	1642.1
180°	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5



TEST NUMBER: P332144-930

CATALOG NUMBER: S123DIW-S560D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	678.2	678.5	681.2	683.2	682.2	683.5	684.0
5°	740.9	752.2	758.1	762.5	762.9	763.1	765.6
7.5°	830.0	842.0	850.8	864.2	868.2	872.8	871.5
10°	895.0	912.7	928.1	936.1	944.9	957.7	947.4
12.5°	955.6	987.2	1010.5	1023.0	1031.4	1033.9	1028.8
15°	1055.7	1097.0	1119.2	1118.5	1146.6	1158.8	1139.7
17.5°	1147.5	1185.6	1216.0	1231.7	1255.1	1260.3	1257.9
20°	1203.7	1245.3	1269.0	1295.8	1308.1	1319.0	1320.9
22.5°	1252.2	1289.5	1315.0	1337.3	1347.5	1352.7	1355.8
25°	1302.1	1331.5	1346.8	1354.5	1357.4	1356.7	1352.7
27.5°	1298.7	1300.9	1284.1	1267.5	1252.7	1236.0	1230.3
30°	1264.9	1238.7	1191.9	1165.3	1126.3	1095.4	1107.9
32.5°	1176.2	1124.1	1071.5	1013.4	965.4	951.8	938.0
35°	1003.9	912.1	858.4	796.0	770.9	746.0	728.8
37.5°	812.2	741.2	677.4	636.6	611.6	595.8	587.3
40°	702.3	638.2	585.8	552.7	533.6	515.8	513.3
42.5°	614.6	555.1	515.6	489.3	470.9	463.4	457.9
45°	503.4	461.8	435.3	416.5	404.4	399.7	393.5
47.5°	426.1	396.7	376.7	364.0	354.8	351.3	350.8
50°	382.9	358.5	343.8	333.8	326.6	325.4	320.4
52.5°	350.3	329.2	317.8	309.1	303.9	300.4	298.9
55°	304.1	290.1	279.8	274.8	270.8	267.3	267.3
57.5°	266.1	254.4	247.5	243.3	242.1	239.6	238.1
60°	242.6	232.6	227.3	223.6	221.1	221.4	218.6
62.5°	219.6	213.1	208.1	204.3	201.4	201.4	201.6
65°	187.0	182.1	178.3	177.1	175.2	173.0	173.6
67.5°	158.5	153.8	150.9	148.8	148.1	146.9	148.8
70°	138.0	134.6	132.4	130.5	129.9	130.2	131.8
72.5°	119.3	116.8	115.4	114.5	113.2	113.2	114.3
75°	93.7	91.8	90.6	89.6	89.3	89.3	89.3
77.5°	68.8	68.4	67.8	66.4	66.5	66.9	66.9
80°	54.3	53.4	53.1	52.4	51.5	50.9	52.4
82.5°	40.6	39.6	39.4	39.2	37.7	37.7	39.0
85°	21.9	21.0	21.2	21.0	21.0	20.6	20.6
87.5°	14.3	14.2	14.1	14.5	14.3	14.2	14.8
90°	32.5	33.6	34.4	35.0	35.5	36.0	36.5
92.5°	36.4	38.2	39.1	39.5	39.8	40.1	40.4
95°	43.5	45.3	46.3	46.3	46.3	46.3	46.3
97.5°	45.7	47.9	49.2	49.4	49.7	50.0	50.2
100°	46.7	48.9	50.1	50.4	50.6	51.0	51.2
102.5°	60.1	53.3	50.2	50.7	51.2	51.7	52.2
105°	123.1	75.2	51.4	52.0	52.6	53.1	53.6
107.5°	383.8	348.6	313.0	276.9	240.7	204.6	168.4
110°	522.9	514.0	490.1	451.3	412.6	373.9	335.2



TEST NUMBER: P332144-930

CATALOG NUMBER: S123DIW-S560D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	611.6	611.8	607.8	599.6	591.4	583.3	575.0
115°	707.8	710.5	712.3	713.5	714.5	715.6	716.7
117.5°	791.9	794.1	795.3	795.5	795.7	796.0	796.1
120°	847.5	849.7	850.8	850.8	850.8	850.8	850.8
122.5°	901.2	902.7	903.5	903.8	903.9	904.2	904.4
125°	976.7	977.2	977.8	978.4	978.8	979.4	980.0
127.5°	1053.8	1054.6	1054.8	1054.3	1053.7	1053.1	1052.6
130°	1100.2	1101.3	1101.6	1101.1	1100.5	1099.9	1099.4
132.5°	1144.1	1145.2	1145.3	1144.6	1143.9	1143.0	1142.3
135°	1210.3	1211.1	1211.1	1210.3	1209.5	1208.7	1207.9
137.5°	1270.1	1271.4	1271.7	1271.2	1270.6	1270.1	1269.6
140°	1307.4	1308.5	1308.8	1308.2	1307.7	1307.2	1306.6
142.5°	1342.9	1343.7	1343.8	1343.0	1342.2	1341.5	1340.8
145°	1392.4	1392.9	1393.2	1393.2	1393.2	1393.2	1393.2
147.5°	1437.0	1437.5	1437.1	1435.9	1434.7	1433.4	1432.2
150°	1464.3	1464.8	1464.7	1463.9	1463.1	1462.2	1461.4
152.5°	1489.0	1490.0	1489.8	1488.6	1487.3	1486.0	1484.8
155°	1522.7	1524.1	1524.0	1522.3	1520.7	1519.1	1517.5
157.5°	1552.1	1553.7	1553.5	1551.4	1549.2	1547.1	1545.0
160°	1568.6	1570.3	1570.2	1568.2	1566.4	1564.5	1562.6
162.5°	1584.0	1585.8	1585.8	1584.2	1582.5	1580.9	1579.2
165°	1604.4	1606.6	1606.7	1604.8	1603.0	1601.0	1599.1
167.5°	1620.0	1622.2	1622.2	1620.0	1617.9	1615.7	1613.6
170°	1628.8	1631.0	1631.0	1628.8	1626.6	1624.5	1622.3
172.5°	1634.7	1636.8	1636.7	1634.3	1632.0	1629.5	1627.2
175°	1641.4	1643.3	1643.2	1641.0	1638.8	1636.6	1634.5
177.5°	1643.8	1645.6	1645.4	1643.2	1641.0	1638.8	1636.7
180°	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5

(END OF REPORT)