

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: P332162-935

Luminaire Tested: **S123DIW-S775D1030U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332162-935
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-S775D1030U935-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1030 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6360.9 lumens
Efficiency: N/A
Efficacy: 120.9 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: General Diffuse

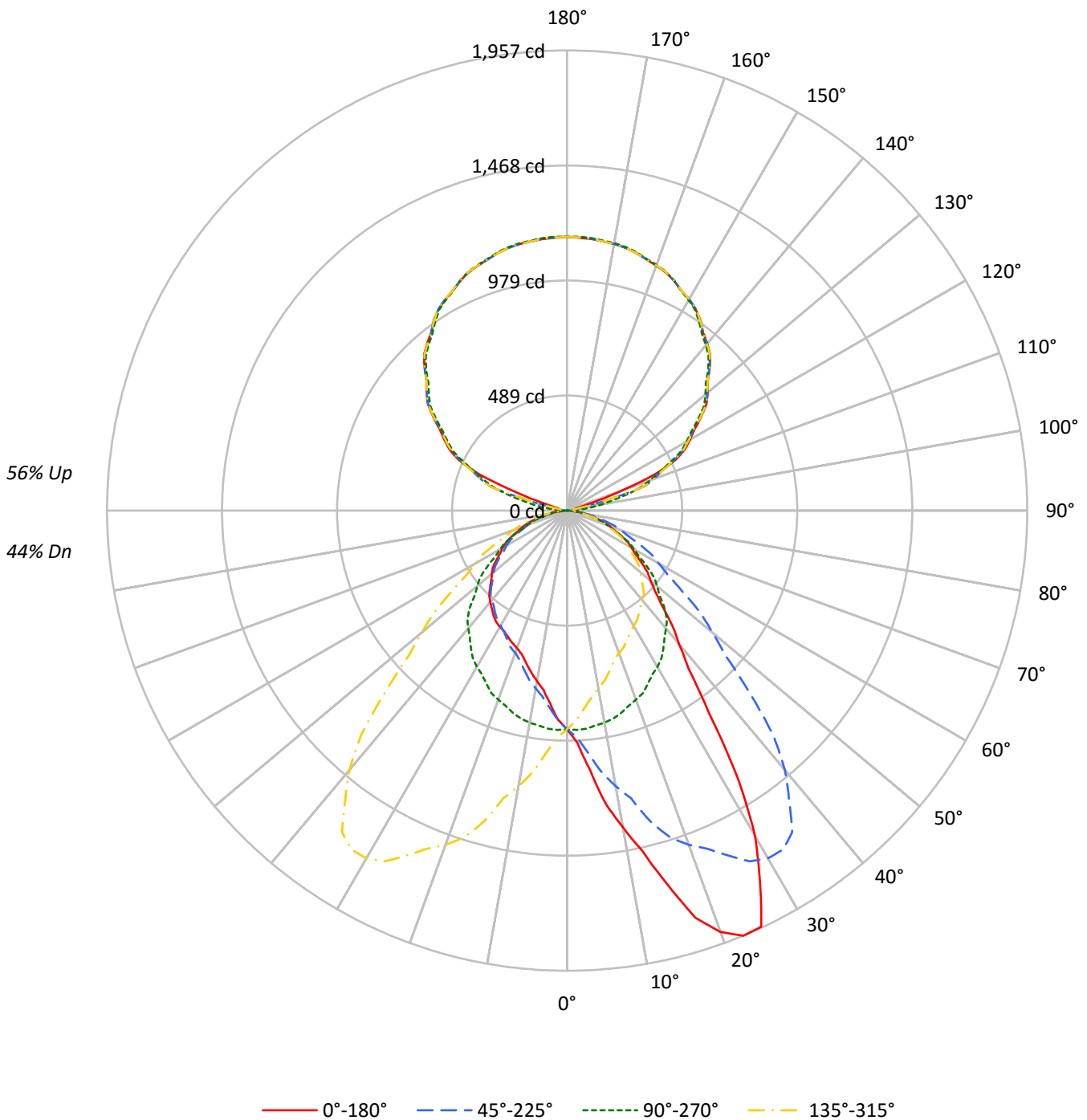
Input Watts (W): 52.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	93	89	85	88	85	82	79	71	68	66	57	56	54	45	44	43	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	38	37	32
3	81	71	64	59	74	66	59	55	55	50	47	45	42	39	36	33	32	27
4	74	63	56	50	67	58	52	46	49	44	40	40	36	33	32	29	27	24
5	68	56	48	43	62	52	45	40	44	38	34	36	32	29	29	26	24	21
6	62	51	43	37	57	47	40	35	39	34	30	33	29	26	26	23	21	18
7	58	46	38	32	53	42	35	30	36	30	26	30	26	23	24	21	19	16
8	54	41	34	29	49	38	32	27	33	27	23	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13
10	46	35	27	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10014	10014	10014	10014
5°	11943	10057	8912	10057
10°	14948	10006	8050	10006
15°	18333	9926	7494	9926
20°	21841	9800	7135	9800
25°	23192	9647	7056	9647
30°	19877	9536	7093	9536
35°	13825	9376	7167	9376
40°	10413	9190	7144	9190
45°	8645	8914	7054	8914
50°	7743	8348	6990	8348
55°	7240	7739	6902	7739
60°	6794	7102	6833	7102
65°	6383	6477	6612	6477
70°	5986	5759	6297	5759
75°	5361	5041	5772	5041
80°	4699	4135	4971	4135
85°	3680	3013	3335	3013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	1.4
10°-20°	293.9	4.6
20°-30°	493.2	7.8
30°-40°	558.5	8.8
40°-50°	500.8	7.9
50°-60°	404.1	6.4
60°-70°	281.6	4.4
70°-80°	148.0	2.3
80°-90°	39.5	0.6
90°-100°	42.3	0.7
100°-110°	201.7	3.2
110°-120°	484.5	7.6
120°-130°	616.9	9.7
130°-140°	659.2	10.4
140°-150°	616.4	9.7
150°-160°	497.2	7.8
160°-170°	320.9	5.0
170°-180°	110.6	1.7
0°-30°	878.7	13.8
0°-40°	1437.2	22.6
0°-60°	2342.1	36.8
0°-90°	2811.2	44.2
90°-120°	728.5	11.5
90°-150°	2621.0	41.2
90°-180°	3550.0	55.8
0°-180°	6360.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	930	930	930	930	930	
5°	1105	931	825	931	1105	115
15°	1645	891	672	891	1645	475
25°	1953	812	594	812	1953	856
35°	1052	714	545	714	1052	684
45°	568	586	463	586	568	449
55°	386	412	368	412	386	346
65°	251	254	260	254	251	250
75°	129	121	139	121	129	138
85°	30	24	27	24	30	36
90°	26	1	26	1	26	13
95°	33	53	33	53	33	27
105°	38	258	38	258	38	87
115°	508	484	508	484	508	470
125°	695	682	695	682	695	621
135°	857	848	857	848	857	661
145°	988	979	988	979	988	617
155°	1077	1078	1077	1078	1077	496
165°	1135	1137	1135	1137	1135	320
175°	1160	1164	1160	1164	1160	110
180°	1164	1164	1164	1164	1164	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3
2.5°	987.3	986.6	984.8	986.3	983.3	979.4	979.0	975.4	964.9	964.2	961.4
5°	1105.3	1101.6	1101.2	1100.7	1094.4	1085.9	1069.6	1068.2	1046.6	1035.8	1022.8
7.5°	1257.9	1259.8	1253.3	1247.5	1228.2	1215.5	1198.1	1175.8	1149.3	1122.3	1104.3
10°	1367.6	1382.4	1364.0	1351.3	1339.6	1317.5	1291.8	1259.8	1227.9	1190.4	1162.0
12.5°	1485.1	1492.5	1488.8	1476.9	1458.6	1425.0	1379.5	1344.2	1314.7	1252.4	1227.3
15°	1645.2	1672.8	1655.2	1614.5	1615.5	1583.5	1524.0	1458.6	1423.9	1369.3	1295.0
17.5°	1815.8	1819.2	1811.7	1778.0	1755.4	1711.4	1656.5	1593.9	1523.5	1457.5	1378.6
20°	1906.7	1903.9	1888.2	1870.6	1831.9	1797.6	1737.7	1667.8	1577.6	1512.7	1426.6
22.5°	1957.1	1952.7	1945.2	1930.4	1898.2	1861.4	1807.6	1731.2	1645.5	1556.0	1456.6
25°	1952.7	1958.5	1959.4	1955.3	1944.1	1922.0	1879.6	1818.8	1733.1	1618.2	1514.5
27.5°	1776.0	1784.3	1808.4	1829.7	1853.6	1877.9	1874.7	1844.4	1781.1	1681.9	1555.1
30°	1599.2	1581.2	1625.8	1682.2	1720.5	1788.1	1826.0	1828.2	1792.6	1707.4	1583.9
32.5°	1354.0	1373.9	1393.6	1462.9	1546.7	1622.6	1698.0	1758.7	1765.6	1708.9	1600.9
35°	1052.1	1076.9	1112.9	1148.9	1239.2	1316.6	1449.1	1564.5	1656.5	1668.7	1602.4
37.5°	847.7	860.1	882.9	918.9	977.9	1069.9	1172.4	1318.3	1451.5	1550.6	1554.9
40°	741.1	744.7	770.3	797.8	845.6	921.4	1013.7	1142.6	1302.2	1440.6	1498.3
42.5°	661.0	668.9	679.8	706.2	744.2	801.2	887.2	993.7	1140.0	1299.2	1412.1
45°	567.9	577.0	583.8	601.3	628.4	666.7	726.6	824.0	935.3	1099.8	1251.7
47.5°	506.4	507.2	512.2	525.5	543.9	572.7	615.0	677.6	779.8	913.2	1069.2
50°	462.4	469.7	471.5	481.8	496.3	517.5	552.6	605.8	689.7	806.8	950.2
52.5°	431.4	433.6	438.7	446.2	458.7	475.3	505.8	547.4	613.2	713.1	844.9
55°	385.8	385.8	390.8	396.7	403.9	418.7	439.0	469.7	519.7	597.3	706.4
57.5°	343.6	345.9	349.4	351.2	357.3	367.2	384.1	407.4	444.7	504.4	591.1
60°	315.6	319.6	319.2	322.7	328.1	335.8	350.3	369.2	402.5	450.3	523.3
62.5°	291.0	290.8	290.7	295.0	300.4	307.7	317.0	333.5	361.8	404.2	466.3
65°	250.6	249.7	252.9	255.5	257.4	262.8	270.0	284.4	303.3	334.9	383.1
67.5°	214.7	212.2	213.9	214.7	217.8	222.1	228.8	237.7	252.8	278.1	314.4
70°	190.2	188.0	187.5	188.4	191.1	194.2	199.2	207.8	221.8	242.0	268.6
72.5°	165.0	163.4	163.3	165.3	166.6	168.7	172.2	180.0	191.1	206.4	231.2
75°	128.9	128.9	128.9	129.3	130.7	132.5	135.3	139.3	147.8	158.7	175.3
77.5°	96.6	96.5	96.0	95.9	97.9	98.8	99.4	103.1	107.9	115.2	127.3
80°	75.8	73.4	74.4	75.8	76.6	77.1	78.4	79.3	83.4	87.5	96.0
82.5°	56.2	54.3	54.5	56.7	56.8	57.3	58.6	59.8	61.4	65.1	69.7
85°	29.8	29.8	30.2	30.2	30.7	30.2	31.5	32.0	32.0	34.3	36.9
87.5°	16.0	15.2	15.5	15.8	15.3	15.6	15.8	16.0	16.2	16.4	16.3
90°	25.9	25.6	25.1	24.8	24.4	23.8	23.1	22.3	21.5	20.8	18.3
92.5°	28.7	28.5	28.2	28.0	27.8	27.0	25.8	24.6	23.3	22.1	20.2
95°	32.9	32.9	32.9	32.9	32.9	32.2	30.8	29.5	28.2	26.8	24.7
97.5°	35.6	35.5	35.2	35.0	34.9	34.0	32.5	30.9	29.4	27.8	41.7
100°	36.3	36.2	35.9	35.7	35.6	34.7	33.1	31.6	30.0	28.5	58.5
102.5°	37.0	36.7	36.3	36.0	35.6	37.8	42.6	47.4	52.2	56.9	89.6
105°	38.1	37.6	37.3	36.9	36.5	53.3	87.3	121.4	155.4	189.4	206.7
107.5°	119.5	145.2	170.8	196.4	222.1	247.4	272.3	297.2	322.2	347.2	344.4
110°	237.8	265.3	292.7	320.3	347.8	364.6	371.0	377.4	383.7	390.0	387.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	408.0	413.8	419.7	425.4	431.2	434.0	433.9	433.9	433.7	433.6	431.5
115°	508.5	507.7	507.0	506.2	505.4	504.1	502.1	500.2	498.3	496.4	494.6
117.5°	564.9	564.7	564.6	564.4	564.3	563.4	561.9	560.3	558.8	557.2	556.4
120°	603.6	603.6	603.6	603.6	603.6	602.9	601.3	599.8	598.2	596.7	596.2
122.5°	641.7	641.5	641.4	641.2	641.1	640.4	639.4	638.3	637.2	636.1	635.4
125°	695.3	694.9	694.5	694.1	693.8	693.4	693.0	692.6	692.2	691.8	691.0
127.5°	746.8	747.3	747.6	748.0	748.4	748.3	747.6	747.0	746.4	745.8	744.9
130°	780.1	780.4	780.8	781.2	781.6	781.4	780.6	779.9	779.1	778.3	777.6
132.5°	810.5	811.1	811.6	812.1	812.6	812.5	811.8	811.0	810.2	809.4	808.8
135°	857.0	857.6	858.2	858.8	859.3	859.3	858.8	858.2	857.6	857.0	856.3
137.5°	900.8	901.1	901.6	901.9	902.3	902.1	901.1	900.2	899.2	898.4	897.9
140°	927.0	927.5	927.8	928.2	928.6	928.4	927.6	926.9	926.1	925.3	924.7
142.5°	951.2	951.8	952.4	952.9	953.4	953.4	952.8	952.2	951.6	950.9	950.4
145°	988.4	988.4	988.4	988.4	988.4	988.3	987.9	987.5	987.1	986.7	986.4
147.5°	1016.2	1017.0	1017.9	1018.8	1019.7	1019.9	1019.5	1019.2	1018.7	1018.4	1018.0
150°	1036.9	1037.5	1038.0	1038.6	1039.2	1039.3	1038.9	1038.5	1038.1	1037.8	1037.3
152.5°	1053.5	1054.4	1055.2	1056.1	1057.0	1057.1	1056.4	1055.8	1055.1	1054.4	1054.1
155°	1076.7	1077.8	1079.0	1080.1	1081.2	1081.4	1080.4	1079.4	1078.5	1077.5	1077.4
157.5°	1096.2	1097.7	1099.2	1100.7	1102.2	1102.3	1101.2	1100.1	1098.9	1097.8	1097.9
160°	1108.6	1110.0	1111.4	1112.7	1114.0	1114.1	1113.0	1111.8	1110.7	1109.6	1109.7
162.5°	1120.4	1121.6	1122.8	1124.0	1125.2	1125.2	1123.9	1122.5	1121.2	1119.9	1120.1
165°	1134.6	1135.9	1137.3	1138.7	1140.0	1139.9	1138.3	1136.8	1135.3	1133.8	1133.9
167.5°	1144.8	1146.3	1147.9	1149.4	1151.0	1151.0	1149.4	1147.9	1146.3	1144.8	1144.8
170°	1151.1	1152.5	1154.1	1155.6	1157.2	1157.2	1155.6	1154.1	1152.5	1151.1	1151.1
172.5°	1154.5	1156.2	1157.9	1159.6	1161.2	1161.3	1159.8	1158.3	1156.8	1155.2	1155.0
175°	1159.7	1161.2	1162.8	1164.3	1165.9	1166.0	1164.6	1163.2	1161.9	1160.5	1160.4
177.5°	1161.2	1162.8	1164.3	1165.9	1167.4	1167.5	1166.3	1165.1	1163.9	1162.6	1162.4
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3
2.5°	959.2	956.3	953.4	948.4	944.1	937.9	936.1	933.9	927.5	921.7	917.4
5°	1017.8	1006.9	991.2	976.8	965.1	949.3	940.3	930.8	917.3	905.1	895.2
7.5°	1079.1	1057.8	1033.3	1006.8	982.1	958.3	939.1	922.0	903.0	885.1	871.2
10°	1127.7	1097.1	1062.9	1025.9	994.4	963.7	938.0	915.5	891.1	870.0	852.4
12.5°	1183.3	1137.9	1090.6	1045.8	1008.4	965.9	934.8	906.1	878.5	853.0	833.3
15°	1249.1	1191.4	1135.4	1073.7	1016.9	963.7	926.8	890.7	858.7	832.5	807.3
17.5°	1308.9	1243.5	1169.8	1094.8	1026.2	963.2	911.5	870.6	830.6	798.7	773.5
20°	1342.8	1268.4	1185.0	1107.1	1031.3	961.0	904.2	855.5	812.3	778.4	750.0
22.5°	1372.0	1285.0	1198.7	1115.3	1031.0	955.2	890.9	840.8	793.8	760.8	730.6
25°	1402.3	1298.1	1211.6	1113.8	1019.6	941.2	869.0	812.3	765.3	726.6	695.5
27.5°	1428.2	1297.3	1194.6	1089.3	1001.8	923.2	846.1	785.2	735.5	693.4	661.8
30°	1445.5	1299.1	1176.9	1072.8	984.5	903.3	828.5	767.2	714.9	672.1	642.3
32.5°	1456.4	1298.0	1160.7	1049.7	957.0	885.3	809.3	745.9	692.2	650.1	621.4
35°	1462.7	1290.0	1132.7	1002.0	912.7	842.9	779.4	713.5	657.2	617.9	585.6
37.5°	1450.1	1273.3	1100.3	956.1	858.3	789.5	736.1	680.0	626.1	582.9	555.0
40°	1430.2	1262.6	1075.0	923.6	820.8	754.6	709.0	654.0	600.8	559.8	533.6
42.5°	1392.3	1240.5	1047.2	887.5	781.9	715.6	673.7	627.8	577.4	538.9	512.8
45°	1299.9	1192.7	1005.6	833.4	724.4	655.8	618.9	585.6	540.0	502.6	480.0
47.5°	1171.7	1120.7	945.4	776.4	664.3	598.4	560.0	533.1	499.9	469.7	448.1
50°	1082.7	1061.5	904.7	737.4	624.3	559.8	522.9	498.5	474.7	444.4	424.6
52.5°	979.9	993.0	857.0	697.1	583.5	520.1	485.3	466.1	444.4	419.6	402.3
55°	835.3	882.5	774.8	629.2	522.9	462.4	429.6	412.4	399.8	381.3	366.4
57.5°	699.7	760.0	686.0	559.4	463.3	411.2	379.6	360.9	352.8	343.2	331.5
60°	619.3	678.8	622.5	512.5	423.3	373.7	345.7	329.9	321.8	315.0	305.1
62.5°	547.6	607.8	560.4	464.9	383.9	337.9	313.7	298.3	291.9	288.3	279.9
65°	448.9	500.8	469.2	390.8	327.7	287.1	265.0	254.3	248.4	247.0	241.6
67.5°	365.4	404.8	381.9	324.2	274.5	239.4	220.7	211.5	207.0	206.6	202.5
70°	310.6	347.5	329.9	277.7	234.9	207.3	191.1	183.0	180.3	179.9	177.6
72.5°	268.0	293.8	279.8	236.2	203.1	178.1	166.3	157.7	154.7	155.3	153.8
75°	198.3	217.7	209.6	179.4	152.8	136.6	126.7	121.2	118.6	119.9	118.1
77.5°	142.7	155.0	147.7	126.7	110.4	98.6	91.4	88.0	85.6	85.5	84.6
80°	107.7	114.9	110.9	98.2	84.7	74.8	69.0	66.7	65.3	64.9	64.5
82.5°	76.7	82.8	78.1	69.4	60.2	54.2	51.0	48.0	47.0	47.3	46.8
85°	38.7	41.0	39.2	33.8	30.2	27.5	25.7	24.4	23.4	23.8	23.0
87.5°	16.5	16.4	14.8	12.9	11.8	10.3	9.9	8.9	8.5	8.9	8.9
90°	15.8	13.3	10.8	8.5	6.6	4.7	2.8	0.9	2.8	4.7	6.6
92.5°	18.3	16.5	14.6	13.9	14.5	15.0	15.6	16.1	15.6	15.0	14.5
95°	22.6	20.5	18.3	21.3	29.1	37.0	44.9	52.8	44.9	37.0	29.1
97.5°	55.5	69.4	83.2	91.9	95.4	98.9	102.5	106.0	102.5	98.9	95.4
100°	88.5	118.5	148.4	161.5	157.6	153.9	150.0	146.1	150.0	153.9	157.6
102.5°	122.4	155.2	187.9	202.9	200.1	197.3	194.6	191.8	194.6	197.3	200.1
105°	223.9	241.3	258.6	266.1	264.1	261.9	259.8	257.7	259.8	261.9	264.1
107.5°	341.6	339.0	336.2	334.0	332.3	330.6	328.9	327.3	328.9	330.6	332.3
110°	385.8	383.7	381.6	379.7	378.2	376.7	375.1	373.6	375.1	376.7	378.2



TEST NUMBER: P332162-935

CATALOG NUMBER: S123DIW-S775D1030U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	429.4	427.2	425.2	423.4	422.1	420.6	419.2	417.8	419.2	420.6	422.1
115°	492.9	491.2	489.5	488.0	486.9	485.7	484.6	483.5	484.6	485.7	486.9
117.5°	555.5	554.7	553.7	552.6	551.1	549.7	548.3	546.9	548.3	549.7	551.1
120°	595.6	595.0	594.4	593.2	591.5	589.8	588.1	586.3	588.1	589.8	591.5
122.5°	634.6	634.0	633.2	632.1	630.7	629.3	627.8	626.5	627.8	629.3	630.7
125°	690.3	689.5	688.8	687.6	686.0	684.5	683.0	681.5	683.0	684.5	686.0
127.5°	744.0	743.0	742.1	740.9	739.3	737.8	736.2	734.7	736.2	737.8	739.3
130°	776.8	776.0	775.2	774.1	772.6	771.0	769.5	767.9	769.5	771.0	772.6
132.5°	808.2	807.6	807.0	805.9	804.3	802.8	801.3	799.8	801.3	802.8	804.3
135°	855.5	854.7	853.9	853.0	851.8	850.7	849.5	848.3	849.5	850.7	851.8
137.5°	897.5	897.1	896.6	895.7	894.2	892.8	891.3	889.8	891.3	892.8	894.2
140°	924.2	923.6	923.0	922.1	921.0	919.9	918.7	917.6	918.7	919.9	921.0
142.5°	949.8	949.2	948.6	947.8	946.6	945.5	944.3	943.1	944.3	945.5	946.6
145°	985.9	985.6	985.2	984.3	983.0	981.6	980.2	979.0	980.2	981.6	983.0
147.5°	1017.6	1017.2	1016.8	1016.2	1015.3	1014.4	1013.6	1012.7	1013.6	1014.4	1015.3
150°	1037.0	1036.6	1036.2	1035.7	1035.2	1034.6	1034.0	1033.5	1034.0	1034.6	1035.2
152.5°	1053.9	1053.7	1053.4	1053.2	1052.9	1052.7	1052.4	1052.1	1052.4	1052.7	1052.9
155°	1077.1	1076.9	1076.8	1076.9	1077.3	1077.6	1078.0	1078.4	1078.0	1077.6	1077.3
157.5°	1098.1	1098.4	1098.5	1098.6	1098.7	1098.7	1098.8	1098.8	1098.8	1098.7	1098.7
160°	1109.9	1110.1	1110.3	1110.5	1110.7	1110.9	1111.0	1111.3	1111.0	1110.9	1110.7
162.5°	1120.3	1120.5	1120.7	1121.0	1121.5	1122.1	1122.5	1123.0	1122.5	1122.1	1121.5
165°	1134.1	1134.3	1134.5	1134.9	1135.5	1136.1	1136.6	1137.2	1136.6	1136.1	1135.5
167.5°	1144.8	1144.8	1144.8	1145.2	1146.0	1146.8	1147.5	1148.2	1147.5	1146.8	1146.0
170°	1151.1	1151.1	1151.1	1151.4	1152.2	1153.0	1153.7	1154.5	1153.7	1153.0	1152.2
172.5°	1154.9	1154.7	1154.6	1154.9	1155.9	1156.8	1157.7	1158.6	1157.7	1156.8	1155.9
175°	1160.2	1159.9	1159.8	1160.2	1161.1	1162.1	1163.0	1164.0	1163.0	1162.1	1161.1
177.5°	1162.4	1162.2	1162.0	1162.4	1163.1	1163.9	1164.6	1165.4	1164.6	1163.9	1163.1
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0



TEST NUMBER: P332162-935

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3
2.5°	914.8	912.3	908.7	903.3	899.0	892.1	892.1	893.2	893.2	892.9	892.1
5°	887.1	880.3	872.2	862.7	852.8	842.9	841.1	837.5	834.8	833.0	830.7
7.5°	857.8	845.8	834.0	820.7	808.7	798.7	791.7	785.9	782.2	778.3	775.4
10°	837.9	823.0	809.1	795.1	779.8	767.7	760.0	754.6	750.5	746.9	745.1
12.5°	814.5	797.5	782.0	768.8	752.0	739.5	732.2	729.7	724.9	717.3	713.3
15°	780.2	764.5	746.0	725.7	717.6	702.2	693.7	689.7	686.9	681.1	679.2
17.5°	751.0	730.3	709.6	694.4	679.3	666.9	662.1	657.1	653.5	648.7	647.3
20°	727.5	709.0	690.1	673.9	658.1	644.5	640.5	636.9	633.3	631.0	629.2
22.5°	703.7	685.3	669.5	654.4	637.6	628.7	624.3	620.4	617.8	616.3	614.5
25°	670.3	654.0	636.5	622.9	609.4	603.6	600.8	598.6	596.8	594.5	594.1
27.5°	640.3	622.7	608.4	595.8	586.1	581.2	578.6	577.5	577.9	578.7	579.2
30°	617.9	601.8	590.0	579.2	570.2	565.7	565.2	565.2	567.1	567.5	568.4
32.5°	597.4	584.1	572.4	561.9	555.1	552.0	553.7	553.7	555.2	556.3	557.9
35°	567.5	555.8	546.7	537.8	531.9	533.2	534.2	535.0	537.3	540.0	541.8
37.5°	538.9	528.7	519.4	512.3	509.6	512.0	514.2	516.1	518.8	520.8	522.6
40°	518.3	510.7	501.7	495.3	496.3	497.7	499.5	501.7	503.9	505.3	507.1
42.5°	499.2	491.2	484.4	479.1	480.4	482.2	483.2	484.4	487.0	489.4	490.5
45°	470.1	463.8	457.5	454.3	455.3	456.2	457.0	458.4	460.6	462.4	463.0
47.5°	437.4	433.0	428.8	425.7	427.1	426.8	427.9	430.8	431.5	432.7	435.1
50°	416.5	412.4	407.5	406.6	406.6	406.6	407.0	410.6	410.6	412.4	414.2
52.5°	393.4	390.8	387.6	386.0	385.3	385.3	387.2	389.0	389.7	392.3	394.1
55°	359.2	356.5	353.9	352.5	351.5	352.5	356.1	357.0	359.2	360.6	362.0
57.5°	323.6	321.6	319.4	318.7	318.5	319.7	321.7	324.3	324.9	329.1	331.1
60°	300.2	297.0	295.2	295.2	294.4	298.4	297.5	302.0	302.9	305.6	308.8
62.5°	276.0	271.8	271.0	271.0	272.3	273.5	274.7	276.7	279.1	282.5	285.0
65°	237.1	234.9	238.0	237.5	236.6	239.4	239.4	241.6	244.3	247.5	252.4
67.5°	200.2	199.1	199.3	199.3	200.7	202.2	203.5	205.4	208.7	212.1	215.2
70°	175.3	176.7	174.4	176.2	177.6	178.1	178.9	181.7	185.3	187.5	191.1
72.5°	151.2	151.1	151.4	152.1	153.4	154.2	155.2	158.3	162.2	164.1	166.9
75°	116.3	115.8	117.2	117.2	119.4	120.4	121.2	122.6	126.2	128.9	131.1
77.5°	84.9	85.5	85.2	86.7	86.1	86.3	89.0	90.4	90.7	96.1	97.3
80°	64.0	64.9	65.3	65.8	66.3	65.3	68.5	69.8	69.8	73.0	75.3
82.5°	46.0	46.5	47.7	48.1	48.2	49.2	49.4	50.4	51.5	52.9	55.8
85°	23.0	24.4	24.8	24.4	24.8	23.8	25.2	25.7	26.2	26.2	26.2
87.5°	9.0	9.7	9.9	10.8	10.8	11.7	11.9	11.3	11.5	12.7	11.4
90°	8.5	10.8	13.3	15.8	18.3	20.8	21.5	22.3	23.1	23.8	24.4
92.5°	13.9	14.6	16.5	18.3	20.2	22.1	23.3	24.6	25.8	27.0	27.8
95°	21.3	18.3	20.5	22.6	24.7	26.8	28.2	29.5	30.8	32.2	32.9
97.5°	91.9	83.2	69.4	55.5	41.7	27.8	29.4	30.9	32.5	34.0	34.9
100°	161.5	148.4	118.5	88.5	58.5	28.5	30.0	31.6	33.1	34.7	35.6
102.5°	202.9	187.9	155.2	122.4	89.6	56.9	52.2	47.4	42.6	37.8	35.6
105°	266.1	258.6	241.3	223.9	206.7	189.4	155.4	121.4	87.3	53.3	36.5
107.5°	334.0	336.2	339.0	341.6	344.4	347.2	322.2	297.2	272.3	247.4	222.1
110°	379.7	381.6	383.7	385.8	387.9	390.0	383.7	377.4	371.0	364.6	347.8



TEST NUMBER: P332162-935

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	423.4	425.2	427.2	429.4	431.5	433.6	433.7	433.9	433.9	434.0	431.2
115°	488.0	489.5	491.2	492.9	494.6	496.4	498.3	500.2	502.1	504.1	505.4
117.5°	552.6	553.7	554.7	555.5	556.4	557.2	558.8	560.3	561.9	563.4	564.3
120°	593.2	594.4	595.0	595.6	596.2	596.7	598.2	599.8	601.3	602.9	603.6
122.5°	632.1	633.2	634.0	634.6	635.4	636.1	637.2	638.3	639.4	640.4	641.1
125°	687.6	688.8	689.5	690.3	691.0	691.8	692.2	692.6	693.0	693.4	693.8
127.5°	740.9	742.1	743.0	744.0	744.9	745.8	746.4	747.0	747.6	748.3	748.4
130°	774.1	775.2	776.0	776.8	777.6	778.3	779.1	779.9	780.6	781.4	781.6
132.5°	805.9	807.0	807.6	808.2	808.8	809.4	810.2	811.0	811.8	812.5	812.6
135°	853.0	853.9	854.7	855.5	856.3	857.0	857.6	858.2	858.8	859.3	859.3
137.5°	895.7	896.6	897.1	897.5	897.9	898.4	899.2	900.2	901.1	902.1	902.3
140°	922.1	923.0	923.6	924.2	924.7	925.3	926.1	926.9	927.6	928.4	928.6
142.5°	947.8	948.6	949.2	949.8	950.4	950.9	951.6	952.2	952.8	953.4	953.4
145°	984.3	985.2	985.6	985.9	986.4	986.7	987.1	987.5	987.9	988.3	988.4
147.5°	1016.2	1016.8	1017.2	1017.6	1018.0	1018.4	1018.7	1019.2	1019.5	1019.9	1019.7
150°	1035.7	1036.2	1036.6	1037.0	1037.3	1037.8	1038.1	1038.5	1038.9	1039.3	1039.2
152.5°	1053.2	1053.4	1053.7	1053.9	1054.1	1054.4	1055.1	1055.8	1056.4	1057.1	1057.0
155°	1076.9	1076.8	1076.9	1077.1	1077.4	1077.5	1078.5	1079.4	1080.4	1081.4	1081.2
157.5°	1098.6	1098.5	1098.4	1098.1	1097.9	1097.8	1098.9	1100.1	1101.2	1102.3	1102.2
160°	1110.5	1110.3	1110.1	1109.9	1109.7	1109.6	1110.7	1111.8	1113.0	1114.1	1114.0
162.5°	1121.0	1120.7	1120.5	1120.3	1120.1	1119.9	1121.2	1122.5	1123.9	1125.2	1125.2
165°	1134.9	1134.5	1134.3	1134.1	1133.9	1133.8	1135.3	1136.8	1138.3	1139.9	1140.0
167.5°	1145.2	1144.8	1144.8	1144.8	1144.8	1144.8	1146.3	1147.9	1149.4	1151.0	1151.0
170°	1151.4	1151.1	1151.1	1151.1	1151.1	1151.1	1152.5	1154.1	1155.6	1157.2	1157.2
172.5°	1154.9	1154.6	1154.7	1154.9	1155.0	1155.2	1156.8	1158.3	1159.8	1161.3	1161.2
175°	1160.2	1159.8	1159.9	1160.2	1160.4	1160.5	1161.9	1163.2	1164.6	1166.0	1165.9
177.5°	1162.4	1162.0	1162.2	1162.4	1162.4	1162.6	1163.9	1165.1	1166.3	1167.5	1167.4
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0



TEST NUMBER: P332162-935

CATALOG NUMBER: S123DIW-S775D1030U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3
2.5°	889.6	889.2	891.7	889.9	891.7	889.2	889.6	892.1	892.9	893.2	893.2
5°	828.0	829.4	824.8	824.8	824.8	829.4	828.0	830.7	833.0	834.8	837.5
7.5°	773.2	771.2	771.4	769.0	771.4	771.2	773.2	775.4	778.3	782.2	785.9
10°	739.7	737.0	736.1	736.5	736.1	737.0	739.7	745.1	746.9	750.5	754.6
12.5°	711.9	711.4	705.4	705.5	705.4	711.4	711.9	713.3	717.3	724.9	729.7
15°	679.2	670.7	669.8	672.5	669.8	670.7	679.2	679.2	681.1	686.9	689.7
17.5°	646.5	642.0	642.3	640.9	642.3	642.0	646.5	647.3	648.7	653.5	657.1
20°	629.2	626.5	626.1	622.9	626.1	626.5	629.2	629.2	631.0	633.3	636.9
22.5°	613.4	612.5	612.8	609.2	612.8	612.5	613.4	614.5	616.3	617.8	620.4
25°	593.7	595.9	594.1	594.1	594.1	595.9	593.7	594.1	594.5	596.8	598.6
27.5°	580.3	580.2	579.3	579.3	579.3	580.2	580.3	579.2	578.7	577.9	577.5
30°	570.2	569.7	570.7	570.7	570.7	569.7	570.2	568.4	567.5	567.1	565.2
32.5°	560.1	560.8	560.9	561.3	560.9	560.8	560.1	557.9	556.3	555.2	553.7
35°	544.5	544.9	546.3	545.4	546.3	544.9	544.5	541.8	540.0	537.3	535.0
37.5°	523.4	525.5	525.0	525.7	525.0	525.5	523.4	522.6	520.8	518.8	516.1
40°	507.6	508.9	508.4	508.4	508.4	508.9	507.6	507.1	505.3	503.9	501.7
42.5°	491.3	492.3	491.1	490.4	491.1	492.3	491.3	490.5	489.4	487.0	484.4
45°	464.7	463.8	465.2	463.4	465.2	463.8	464.7	463.0	462.4	460.6	458.4
47.5°	435.0	435.8	436.3	437.6	436.3	435.8	435.0	435.1	432.7	431.5	430.8
50°	415.2	417.8	417.8	417.4	417.8	417.8	415.2	414.2	412.4	410.6	410.6
52.5°	395.6	396.9	398.7	398.6	398.7	396.9	395.6	394.1	392.3	389.7	389.0
55°	365.6	366.4	367.4	367.8	367.4	366.4	365.6	362.0	360.6	359.2	357.0
57.5°	334.3	334.0	336.1	336.8	336.1	334.0	334.3	331.1	329.1	324.9	324.3
60°	312.4	312.4	316.0	317.4	316.0	312.4	312.4	308.8	305.6	302.9	302.0
62.5°	289.0	290.4	293.9	292.1	293.9	290.4	289.0	285.0	282.5	279.1	276.7
65°	254.7	258.3	257.9	259.6	257.9	258.3	254.7	252.4	247.5	244.3	241.6
67.5°	218.9	221.1	224.4	224.6	224.4	221.1	218.9	215.2	212.1	208.7	205.4
70°	194.8	197.0	198.8	200.1	198.8	197.0	194.8	191.1	187.5	185.3	181.7
72.5°	171.3	172.5	176.8	174.9	176.8	172.5	171.3	166.9	164.1	162.2	158.3
75°	134.3	137.5	140.2	138.8	140.2	137.5	134.3	131.1	128.9	126.2	122.6
77.5°	99.4	102.5	103.8	102.6	103.8	102.5	99.4	97.3	96.1	90.7	90.4
80°	78.4	78.0	80.7	80.2	80.7	78.0	78.4	75.3	73.0	69.8	69.8
82.5°	57.5	57.1	58.3	58.6	58.3	57.1	57.5	55.8	52.9	51.5	50.4
85°	28.0	29.3	27.5	27.0	27.5	29.3	28.0	26.2	26.2	26.2	25.7
87.5°	11.5	11.5	11.3	10.9	11.3	11.5	11.5	11.4	12.7	11.5	11.3
90°	24.8	25.1	25.6	25.9	25.6	25.1	24.8	24.4	23.8	23.1	22.3
92.5°	28.0	28.2	28.5	28.7	28.5	28.2	28.0	27.8	27.0	25.8	24.6
95°	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.2	30.8	29.5
97.5°	35.0	35.2	35.5	35.6	35.5	35.2	35.0	34.9	34.0	32.5	30.9
100°	35.7	35.9	36.2	36.3	36.2	35.9	35.7	35.6	34.7	33.1	31.6
102.5°	36.0	36.3	36.7	37.0	36.7	36.3	36.0	35.6	37.8	42.6	47.4
105°	36.9	37.3	37.6	38.1	37.6	37.3	36.9	36.5	53.3	87.3	121.4
107.5°	196.4	170.8	145.2	119.5	145.2	170.8	196.4	222.1	247.4	272.3	297.2
110°	320.3	292.7	265.3	237.8	265.3	292.7	320.3	347.8	364.6	371.0	377.4



TEST NUMBER: P332162-935

CATALOG NUMBER: S123DIW-S775D1030U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	425.4	419.7	413.8	408.0	413.8	419.7	425.4	431.2	434.0	433.9	433.9
115°	506.2	507.0	507.7	508.5	507.7	507.0	506.2	505.4	504.1	502.1	500.2
117.5°	564.4	564.6	564.7	564.9	564.7	564.6	564.4	564.3	563.4	561.9	560.3
120°	603.6	603.6	603.6	603.6	603.6	603.6	603.6	603.6	602.9	601.3	599.8
122.5°	641.2	641.4	641.5	641.7	641.5	641.4	641.2	641.1	640.4	639.4	638.3
125°	694.1	694.5	694.9	695.3	694.9	694.5	694.1	693.8	693.4	693.0	692.6
127.5°	748.0	747.6	747.3	746.8	747.3	747.6	748.0	748.4	748.3	747.6	747.0
130°	781.2	780.8	780.4	780.1	780.4	780.8	781.2	781.6	781.4	780.6	779.9
132.5°	812.1	811.6	811.1	810.5	811.1	811.6	812.1	812.6	812.5	811.8	811.0
135°	858.8	858.2	857.6	857.0	857.6	858.2	858.8	859.3	859.3	858.8	858.2
137.5°	901.9	901.6	901.1	900.8	901.1	901.6	901.9	902.3	902.1	901.1	900.2
140°	928.2	927.8	927.5	927.0	927.5	927.8	928.2	928.6	928.4	927.6	926.9
142.5°	952.9	952.4	951.8	951.2	951.8	952.4	952.9	953.4	953.4	952.8	952.2
145°	988.4	988.4	988.4	988.4	988.4	988.4	988.4	988.4	988.3	987.9	987.5
147.5°	1018.8	1017.9	1017.0	1016.2	1017.0	1017.9	1018.8	1019.7	1019.9	1019.5	1019.2
150°	1038.6	1038.0	1037.5	1036.9	1037.5	1038.0	1038.6	1039.2	1039.3	1038.9	1038.5
152.5°	1056.1	1055.2	1054.4	1053.5	1054.4	1055.2	1056.1	1057.0	1057.1	1056.4	1055.8
155°	1080.1	1079.0	1077.8	1076.7	1077.8	1079.0	1080.1	1081.2	1081.4	1080.4	1079.4
157.5°	1100.7	1099.2	1097.7	1096.2	1097.7	1099.2	1100.7	1102.2	1102.3	1101.2	1100.1
160°	1112.7	1111.4	1110.0	1108.6	1110.0	1111.4	1112.7	1114.0	1114.1	1113.0	1111.8
162.5°	1124.0	1122.8	1121.6	1120.4	1121.6	1122.8	1124.0	1125.2	1125.2	1123.9	1122.5
165°	1138.7	1137.3	1135.9	1134.6	1135.9	1137.3	1138.7	1140.0	1139.9	1138.3	1136.8
167.5°	1149.4	1147.9	1146.3	1144.8	1146.3	1147.9	1149.4	1151.0	1151.0	1149.4	1147.9
170°	1155.6	1154.1	1152.5	1151.1	1152.5	1154.1	1155.6	1157.2	1157.2	1155.6	1154.1
172.5°	1159.6	1157.9	1156.2	1154.5	1156.2	1157.9	1159.6	1161.2	1161.3	1159.8	1158.3
175°	1164.3	1162.8	1161.2	1159.7	1161.2	1162.8	1164.3	1165.9	1166.0	1164.6	1163.2
177.5°	1165.9	1164.3	1162.8	1161.2	1162.8	1164.3	1165.9	1167.4	1167.5	1166.3	1165.1
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0



TEST NUMBER: P332162-935

CATALOG NUMBER: S123DIW-S775D1030U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3
2.5°	892.1	892.1	899.0	903.3	908.7	912.3	914.8	917.4	921.7	927.5	933.9
5°	841.1	842.9	852.8	862.7	872.2	880.3	887.1	895.2	905.1	917.3	930.8
7.5°	791.7	798.7	808.7	820.7	834.0	845.8	857.8	871.2	885.1	903.0	922.0
10°	760.0	767.7	779.8	795.1	809.1	823.0	837.9	852.4	870.0	891.1	915.5
12.5°	732.2	739.5	752.0	768.8	782.0	797.5	814.5	833.3	853.0	878.5	906.1
15°	693.7	702.2	717.6	725.7	746.0	764.5	780.2	807.3	832.5	858.7	890.7
17.5°	662.1	666.9	679.3	694.4	709.6	730.3	751.0	773.5	798.7	830.6	870.6
20°	640.5	644.5	658.1	673.9	690.1	709.0	727.5	750.0	778.4	812.3	855.5
22.5°	624.3	628.7	637.6	654.4	669.5	685.3	703.7	730.6	760.8	793.8	840.8
25°	600.8	603.6	609.4	622.9	636.5	654.0	670.3	695.5	726.6	765.3	812.3
27.5°	578.6	581.2	586.1	595.8	608.4	622.7	640.3	661.8	693.4	735.5	785.2
30°	565.2	565.7	570.2	579.2	590.0	601.8	617.9	642.3	672.1	714.9	767.2
32.5°	553.7	552.0	555.1	561.9	572.4	584.1	597.4	621.4	650.1	692.2	745.9
35°	534.2	533.2	531.9	537.8	546.7	555.8	567.5	585.6	617.9	657.2	713.5
37.5°	514.2	512.0	509.6	512.3	519.4	528.7	538.9	555.0	582.9	626.1	680.0
40°	499.5	497.7	496.3	495.3	501.7	510.7	518.3	533.6	559.8	600.8	654.0
42.5°	483.2	482.2	480.4	479.1	484.4	491.2	499.2	512.8	538.9	577.4	627.8
45°	457.0	456.2	455.3	454.3	457.5	463.8	470.1	480.0	502.6	540.0	585.6
47.5°	427.9	426.8	427.1	425.7	428.8	433.0	437.4	448.1	469.7	499.9	533.1
50°	407.0	406.6	406.6	406.6	407.5	412.4	416.5	424.6	444.4	474.7	498.5
52.5°	387.2	385.3	385.3	386.0	387.6	390.8	393.4	402.3	419.6	444.4	466.1
55°	356.1	352.5	351.5	352.5	353.9	356.5	359.2	366.4	381.3	399.8	412.4
57.5°	321.7	319.7	318.5	318.7	319.4	321.6	323.6	331.5	343.2	352.8	360.9
60°	297.5	298.4	294.4	295.2	295.2	297.0	300.2	305.1	315.0	321.8	329.9
62.5°	274.7	273.5	272.3	271.0	271.0	271.8	276.0	279.9	288.3	291.9	298.3
65°	239.4	239.4	236.6	237.5	238.0	234.9	237.1	241.6	247.0	248.4	254.3
67.5°	203.5	202.2	200.7	199.3	199.3	199.1	200.2	202.5	206.6	207.0	211.5
70°	178.9	178.1	177.6	176.2	174.4	176.7	175.3	177.6	179.9	180.3	183.0
72.5°	155.2	154.2	153.4	152.1	151.4	151.1	151.2	153.8	155.3	154.7	157.7
75°	121.2	120.4	119.4	117.2	117.2	115.8	116.3	118.1	119.9	118.6	121.2
77.5°	89.0	86.3	86.1	86.7	85.2	85.5	84.9	84.6	85.5	85.6	88.0
80°	68.5	65.3	66.3	65.8	65.3	64.9	64.0	64.5	64.9	65.3	66.7
82.5°	49.4	49.2	48.2	48.1	47.7	46.5	46.0	46.8	47.3	47.0	48.0
85°	25.2	23.8	24.8	24.4	24.8	24.4	23.0	23.0	23.8	23.4	24.4
87.5°	11.9	11.7	10.8	10.8	9.9	9.7	9.0	8.9	8.9	8.5	8.9
90°	21.5	20.8	18.3	15.8	13.3	10.8	8.5	6.6	4.7	2.8	0.9
92.5°	23.3	22.1	20.2	18.3	16.5	14.6	13.9	14.5	15.0	15.6	16.1
95°	28.2	26.8	24.7	22.6	20.5	18.3	21.3	29.1	37.0	44.9	52.8
97.5°	29.4	27.8	41.7	55.5	69.4	83.2	91.9	95.4	98.9	102.5	106.0
100°	30.0	28.5	58.5	88.5	118.5	148.4	161.5	157.6	153.9	150.0	146.1
102.5°	52.2	56.9	89.6	122.4	155.2	187.9	202.9	200.1	197.3	194.6	191.8
105°	155.4	189.4	206.7	223.9	241.3	258.6	266.1	264.1	261.9	259.8	257.7
107.5°	322.2	347.2	344.4	341.6	339.0	336.2	334.0	332.3	330.6	328.9	327.3
110°	383.7	390.0	387.9	385.8	383.7	381.6	379.7	378.2	376.7	375.1	373.6



TEST NUMBER: P332162-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	433.7	433.6	431.5	429.4	427.2	425.2	423.4	422.1	420.6	419.2	417.8
115°	498.3	496.4	494.6	492.9	491.2	489.5	488.0	486.9	485.7	484.6	483.5
117.5°	558.8	557.2	556.4	555.5	554.7	553.7	552.6	551.1	549.7	548.3	546.9
120°	598.2	596.7	596.2	595.6	595.0	594.4	593.2	591.5	589.8	588.1	586.3
122.5°	637.2	636.1	635.4	634.6	634.0	633.2	632.1	630.7	629.3	627.8	626.5
125°	692.2	691.8	691.0	690.3	689.5	688.8	687.6	686.0	684.5	683.0	681.5
127.5°	746.4	745.8	744.9	744.0	743.0	742.1	740.9	739.3	737.8	736.2	734.7
130°	779.1	778.3	777.6	776.8	776.0	775.2	774.1	772.6	771.0	769.5	767.9
132.5°	810.2	809.4	808.8	808.2	807.6	807.0	805.9	804.3	802.8	801.3	799.8
135°	857.6	857.0	856.3	855.5	854.7	853.9	853.0	851.8	850.7	849.5	848.3
137.5°	899.2	898.4	897.9	897.5	897.1	896.6	895.7	894.2	892.8	891.3	889.8
140°	926.1	925.3	924.7	924.2	923.6	923.0	922.1	921.0	919.9	918.7	917.6
142.5°	951.6	950.9	950.4	949.8	949.2	948.6	947.8	946.6	945.5	944.3	943.1
145°	987.1	986.7	986.4	985.9	985.6	985.2	984.3	983.0	981.6	980.2	979.0
147.5°	1018.7	1018.4	1018.0	1017.6	1017.2	1016.8	1016.2	1015.3	1014.4	1013.6	1012.7
150°	1038.1	1037.8	1037.3	1037.0	1036.6	1036.2	1035.7	1035.2	1034.6	1034.0	1033.5
152.5°	1055.1	1054.4	1054.1	1053.9	1053.7	1053.4	1053.2	1052.9	1052.7	1052.4	1052.1
155°	1078.5	1077.5	1077.4	1077.1	1076.9	1076.8	1076.9	1077.3	1077.6	1078.0	1078.4
157.5°	1098.9	1097.8	1097.9	1098.1	1098.4	1098.5	1098.6	1098.7	1098.7	1098.8	1098.8
160°	1110.7	1109.6	1109.7	1109.9	1110.1	1110.3	1110.5	1110.7	1110.9	1111.0	1111.3
162.5°	1121.2	1119.9	1120.1	1120.3	1120.5	1120.7	1121.0	1121.5	1122.1	1122.5	1123.0
165°	1135.3	1133.8	1133.9	1134.1	1134.3	1134.5	1134.9	1135.5	1136.1	1136.6	1137.2
167.5°	1146.3	1144.8	1144.8	1144.8	1144.8	1144.8	1145.2	1146.0	1146.8	1147.5	1148.2
170°	1152.5	1151.1	1151.1	1151.1	1151.1	1151.1	1151.4	1152.2	1153.0	1153.7	1154.5
172.5°	1156.8	1155.2	1155.0	1154.9	1154.7	1154.6	1154.9	1155.9	1156.8	1157.7	1158.6
175°	1161.9	1160.5	1160.4	1160.2	1159.9	1159.8	1160.2	1161.1	1162.1	1163.0	1164.0
177.5°	1163.9	1162.6	1162.4	1162.4	1162.2	1162.0	1162.4	1163.1	1163.9	1164.6	1165.4
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0



TEST NUMBER: P332162-935

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3
2.5°	936.1	937.9	944.1	948.4	953.4	956.3	959.2	961.4	964.2	964.9	975.4
5°	940.3	949.3	965.1	976.8	991.2	1006.9	1017.8	1022.8	1035.8	1046.6	1068.2
7.5°	939.1	958.3	982.1	1006.8	1033.3	1057.8	1079.1	1104.3	1122.3	1149.3	1175.8
10°	938.0	963.7	994.4	1025.9	1062.9	1097.1	1127.7	1162.0	1190.4	1227.9	1259.8
12.5°	934.8	965.9	1008.4	1045.8	1090.6	1137.9	1183.3	1227.3	1252.4	1314.7	1344.2
15°	926.8	963.7	1016.9	1073.7	1135.4	1191.4	1249.1	1295.0	1369.3	1423.9	1458.6
17.5°	911.5	963.2	1026.2	1094.8	1169.8	1243.5	1308.9	1378.6	1457.5	1523.5	1593.9
20°	904.2	961.0	1031.3	1107.1	1185.0	1268.4	1342.8	1426.6	1512.7	1577.6	1667.8
22.5°	890.9	955.2	1031.0	1115.3	1198.7	1285.0	1372.0	1456.6	1556.0	1645.5	1731.2
25°	869.0	941.2	1019.6	1113.8	1211.6	1298.1	1402.3	1514.5	1618.2	1733.1	1818.8
27.5°	846.1	923.2	1001.8	1089.3	1194.6	1297.3	1428.2	1555.1	1681.9	1781.1	1844.4
30°	828.5	903.3	984.5	1072.8	1176.9	1299.1	1445.5	1583.9	1707.4	1792.6	1828.2
32.5°	809.3	885.3	957.0	1049.7	1160.7	1298.0	1456.4	1600.9	1708.9	1765.6	1758.7
35°	779.4	842.9	912.7	1002.0	1132.7	1290.0	1462.7	1602.4	1668.7	1656.5	1564.5
37.5°	736.1	789.5	858.3	956.1	1100.3	1273.3	1450.1	1554.9	1550.6	1451.5	1318.3
40°	709.0	754.6	820.8	923.6	1075.0	1262.6	1430.2	1498.3	1440.6	1302.2	1142.6
42.5°	673.7	715.6	781.9	887.5	1047.2	1240.5	1392.3	1412.1	1299.2	1140.0	993.7
45°	618.9	655.8	724.4	833.4	1005.6	1192.7	1299.9	1251.7	1099.8	935.3	824.0
47.5°	560.0	598.4	664.3	776.4	945.4	1120.7	1171.7	1069.2	913.2	779.8	677.6
50°	522.9	559.8	624.3	737.4	904.7	1061.5	1082.7	950.2	806.8	689.7	605.8
52.5°	485.3	520.1	583.5	697.1	857.0	993.0	979.9	844.9	713.1	613.2	547.4
55°	429.6	462.4	522.9	629.2	774.8	882.5	835.3	706.4	597.3	519.7	469.7
57.5°	379.6	411.2	463.3	559.4	686.0	760.0	699.7	591.1	504.4	444.7	407.4
60°	345.7	373.7	423.3	512.5	622.5	678.8	619.3	523.3	450.3	402.5	369.2
62.5°	313.7	337.9	383.9	464.9	560.4	607.8	547.6	466.3	404.2	361.8	333.5
65°	265.0	287.1	327.7	390.8	469.2	500.8	448.9	383.1	334.9	303.3	284.4
67.5°	220.7	239.4	274.5	324.2	381.9	404.8	365.4	314.4	278.1	252.8	237.7
70°	191.1	207.3	234.9	277.7	329.9	347.5	310.6	268.6	242.0	221.8	207.8
72.5°	166.3	178.1	203.1	236.2	279.8	293.8	268.0	231.2	206.4	191.1	180.0
75°	126.7	136.6	152.8	179.4	209.6	217.7	198.3	175.3	158.7	147.8	139.3
77.5°	91.4	98.6	110.4	126.7	147.7	155.0	142.7	127.3	115.2	107.9	103.1
80°	69.0	74.8	84.7	98.2	110.9	114.9	107.7	96.0	87.5	83.4	79.3
82.5°	51.0	54.2	60.2	69.4	78.1	82.8	76.7	69.7	65.1	61.4	59.8
85°	25.7	27.5	30.2	33.8	39.2	41.0	38.7	36.9	34.3	32.0	32.0
87.5°	9.9	10.3	11.8	12.9	14.8	16.4	16.5	16.3	16.4	16.2	16.0
90°	2.8	4.7	6.6	8.5	10.8	13.3	15.8	18.3	20.8	21.5	22.3
92.5°	15.6	15.0	14.5	13.9	14.6	16.5	18.3	20.2	22.1	23.3	24.6
95°	44.9	37.0	29.1	21.3	18.3	20.5	22.6	24.7	26.8	28.2	29.5
97.5°	102.5	98.9	95.4	91.9	83.2	69.4	55.5	41.7	27.8	29.4	30.9
100°	150.0	153.9	157.6	161.5	148.4	118.5	88.5	58.5	28.5	30.0	31.6
102.5°	194.6	197.3	200.1	202.9	187.9	155.2	122.4	89.6	56.9	52.2	47.4
105°	259.8	261.9	264.1	266.1	258.6	241.3	223.9	206.7	189.4	155.4	121.4
107.5°	328.9	330.6	332.3	334.0	336.2	339.0	341.6	344.4	347.2	322.2	297.2
110°	375.1	376.7	378.2	379.7	381.6	383.7	385.8	387.9	390.0	383.7	377.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	419.2	420.6	422.1	423.4	425.2	427.2	429.4	431.5	433.6	433.7	433.9
115°	484.6	485.7	486.9	488.0	489.5	491.2	492.9	494.6	496.4	498.3	500.2
117.5°	548.3	549.7	551.1	552.6	553.7	554.7	555.5	556.4	557.2	558.8	560.3
120°	588.1	589.8	591.5	593.2	594.4	595.0	595.6	596.2	596.7	598.2	599.8
122.5°	627.8	629.3	630.7	632.1	633.2	634.0	634.6	635.4	636.1	637.2	638.3
125°	683.0	684.5	686.0	687.6	688.8	689.5	690.3	691.0	691.8	692.2	692.6
127.5°	736.2	737.8	739.3	740.9	742.1	743.0	744.0	744.9	745.8	746.4	747.0
130°	769.5	771.0	772.6	774.1	775.2	776.0	776.8	777.6	778.3	779.1	779.9
132.5°	801.3	802.8	804.3	805.9	807.0	807.6	808.2	808.8	809.4	810.2	811.0
135°	849.5	850.7	851.8	853.0	853.9	854.7	855.5	856.3	857.0	857.6	858.2
137.5°	891.3	892.8	894.2	895.7	896.6	897.1	897.5	897.9	898.4	899.2	900.2
140°	918.7	919.9	921.0	922.1	923.0	923.6	924.2	924.7	925.3	926.1	926.9
142.5°	944.3	945.5	946.6	947.8	948.6	949.2	949.8	950.4	950.9	951.6	952.2
145°	980.2	981.6	983.0	984.3	985.2	985.6	985.9	986.4	986.7	987.1	987.5
147.5°	1013.6	1014.4	1015.3	1016.2	1016.8	1017.2	1017.6	1018.0	1018.4	1018.7	1019.2
150°	1034.0	1034.6	1035.2	1035.7	1036.2	1036.6	1037.0	1037.3	1037.8	1038.1	1038.5
152.5°	1052.4	1052.7	1052.9	1053.2	1053.4	1053.7	1053.9	1054.1	1054.4	1055.1	1055.8
155°	1078.0	1077.6	1077.3	1076.9	1076.8	1076.9	1077.1	1077.4	1077.5	1078.5	1079.4
157.5°	1098.8	1098.7	1098.7	1098.6	1098.5	1098.4	1098.1	1097.9	1097.8	1098.9	1100.1
160°	1111.0	1110.9	1110.7	1110.5	1110.3	1110.1	1109.9	1109.7	1109.6	1110.7	1111.8
162.5°	1122.5	1122.1	1121.5	1121.0	1120.7	1120.5	1120.3	1120.1	1119.9	1121.2	1122.5
165°	1136.6	1136.1	1135.5	1134.9	1134.5	1134.3	1134.1	1133.9	1133.8	1135.3	1136.8
167.5°	1147.5	1146.8	1146.0	1145.2	1144.8	1144.8	1144.8	1144.8	1144.8	1146.3	1147.9
170°	1153.7	1153.0	1152.2	1151.4	1151.1	1151.1	1151.1	1151.1	1151.1	1152.5	1154.1
172.5°	1157.7	1156.8	1155.9	1154.9	1154.6	1154.7	1154.9	1155.0	1155.2	1156.8	1158.3
175°	1163.0	1162.1	1161.1	1160.2	1159.8	1159.9	1160.2	1160.4	1160.5	1161.9	1163.2
177.5°	1164.6	1163.9	1163.1	1162.4	1162.0	1162.2	1162.4	1162.4	1162.6	1163.9	1165.1
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	930.3	930.3	930.3	930.3	930.3	930.3	930.3
2.5°	979.0	979.4	983.3	986.3	984.8	986.6	987.3
5°	1069.6	1085.9	1094.4	1100.7	1101.2	1101.6	1105.3
7.5°	1198.1	1215.5	1228.2	1247.5	1253.3	1259.8	1257.9
10°	1291.8	1317.5	1339.6	1351.3	1364.0	1382.4	1367.6
12.5°	1379.5	1425.0	1458.6	1476.9	1488.8	1492.5	1485.1
15°	1524.0	1583.5	1615.5	1614.5	1655.2	1672.8	1645.2
17.5°	1656.5	1711.4	1755.4	1778.0	1811.7	1819.2	1815.8
20°	1737.7	1797.6	1831.9	1870.6	1888.2	1903.9	1906.7
22.5°	1807.6	1861.4	1898.2	1930.4	1945.2	1952.7	1957.1
25°	1879.6	1922.0	1944.1	1955.3	1959.4	1958.5	1952.7
27.5°	1874.7	1877.9	1853.6	1829.7	1808.4	1784.3	1776.0
30°	1826.0	1788.1	1720.5	1682.2	1625.8	1581.2	1599.2
32.5°	1698.0	1622.6	1546.7	1462.9	1393.6	1373.9	1354.0
35°	1449.1	1316.6	1239.2	1148.9	1112.9	1076.9	1052.1
37.5°	1172.4	1069.9	977.9	918.9	882.9	860.1	847.7
40°	1013.7	921.4	845.6	797.8	770.3	744.7	741.1
42.5°	887.2	801.2	744.2	706.2	679.8	668.9	661.0
45°	726.6	666.7	628.4	601.3	583.8	577.0	567.9
47.5°	615.0	572.7	543.9	525.5	512.2	507.2	506.4
50°	552.6	517.5	496.3	481.8	471.5	469.7	462.4
52.5°	505.8	475.3	458.7	446.2	438.7	433.6	431.4
55°	439.0	418.7	403.9	396.7	390.8	385.8	385.8
57.5°	384.1	367.2	357.3	351.2	349.4	345.9	343.6
60°	350.3	335.8	328.1	322.7	319.2	319.6	315.6
62.5°	317.0	307.7	300.4	295.0	290.7	290.8	291.0
65°	270.0	262.8	257.4	255.5	252.9	249.7	250.6
67.5°	228.8	222.1	217.8	214.7	213.9	212.2	214.7
70°	199.2	194.2	191.1	188.4	187.5	188.0	190.2
72.5°	172.2	168.7	166.6	165.3	163.3	163.4	165.0
75°	135.3	132.5	130.7	129.3	128.9	128.9	128.9
77.5°	99.4	98.8	97.9	95.9	96.0	96.5	96.6
80°	78.4	77.1	76.6	75.8	74.4	73.4	75.8
82.5°	58.6	57.3	56.8	56.7	54.5	54.3	56.2
85°	31.5	30.2	30.7	30.2	30.2	29.8	29.8
87.5°	15.8	15.6	15.3	15.8	15.5	15.2	16.0
90°	23.1	23.8	24.4	24.8	25.1	25.6	25.9
92.5°	25.8	27.0	27.8	28.0	28.2	28.5	28.7
95°	30.8	32.2	32.9	32.9	32.9	32.9	32.9
97.5°	32.5	34.0	34.9	35.0	35.2	35.5	35.6
100°	33.1	34.7	35.6	35.7	35.9	36.2	36.3
102.5°	42.6	37.8	35.6	36.0	36.3	36.7	37.0
105°	87.3	53.3	36.5	36.9	37.3	37.6	38.1
107.5°	272.3	247.4	222.1	196.4	170.8	145.2	119.5
110°	371.0	364.6	347.8	320.3	292.7	265.3	237.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	433.9	434.0	431.2	425.4	419.7	413.8	408.0
115°	502.1	504.1	505.4	506.2	507.0	507.7	508.5
117.5°	561.9	563.4	564.3	564.4	564.6	564.7	564.9
120°	601.3	602.9	603.6	603.6	603.6	603.6	603.6
122.5°	639.4	640.4	641.1	641.2	641.4	641.5	641.7
125°	693.0	693.4	693.8	694.1	694.5	694.9	695.3
127.5°	747.6	748.3	748.4	748.0	747.6	747.3	746.8
130°	780.6	781.4	781.6	781.2	780.8	780.4	780.1
132.5°	811.8	812.5	812.6	812.1	811.6	811.1	810.5
135°	858.8	859.3	859.3	858.8	858.2	857.6	857.0
137.5°	901.1	902.1	902.3	901.9	901.6	901.1	900.8
140°	927.6	928.4	928.6	928.2	927.8	927.5	927.0
142.5°	952.8	953.4	953.4	952.9	952.4	951.8	951.2
145°	987.9	988.3	988.4	988.4	988.4	988.4	988.4
147.5°	1019.5	1019.9	1019.7	1018.8	1017.9	1017.0	1016.2
150°	1038.9	1039.3	1039.2	1038.6	1038.0	1037.5	1036.9
152.5°	1056.4	1057.1	1057.0	1056.1	1055.2	1054.4	1053.5
155°	1080.4	1081.4	1081.2	1080.1	1079.0	1077.8	1076.7
157.5°	1101.2	1102.3	1102.2	1100.7	1099.2	1097.7	1096.2
160°	1113.0	1114.1	1114.0	1112.7	1111.4	1110.0	1108.6
162.5°	1123.9	1125.2	1125.2	1124.0	1122.8	1121.6	1120.4
165°	1138.3	1139.9	1140.0	1138.7	1137.3	1135.9	1134.6
167.5°	1149.4	1151.0	1151.0	1149.4	1147.9	1146.3	1144.8
170°	1155.6	1157.2	1157.2	1155.6	1154.1	1152.5	1151.1
172.5°	1159.8	1161.3	1161.2	1159.6	1157.9	1156.2	1154.5
175°	1164.6	1166.0	1165.9	1164.3	1162.8	1161.2	1159.7
177.5°	1166.3	1167.5	1167.4	1165.9	1164.3	1162.8	1161.2
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0

(END OF REPORT)