

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: P332063-935

Luminaire Tested: **S123DIP-S1165D805U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332063-935
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: S123DIP-S1165D805U935-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 805 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6980.9 lumens
Efficiency: N/A
Efficacy: 115.0 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-Direct

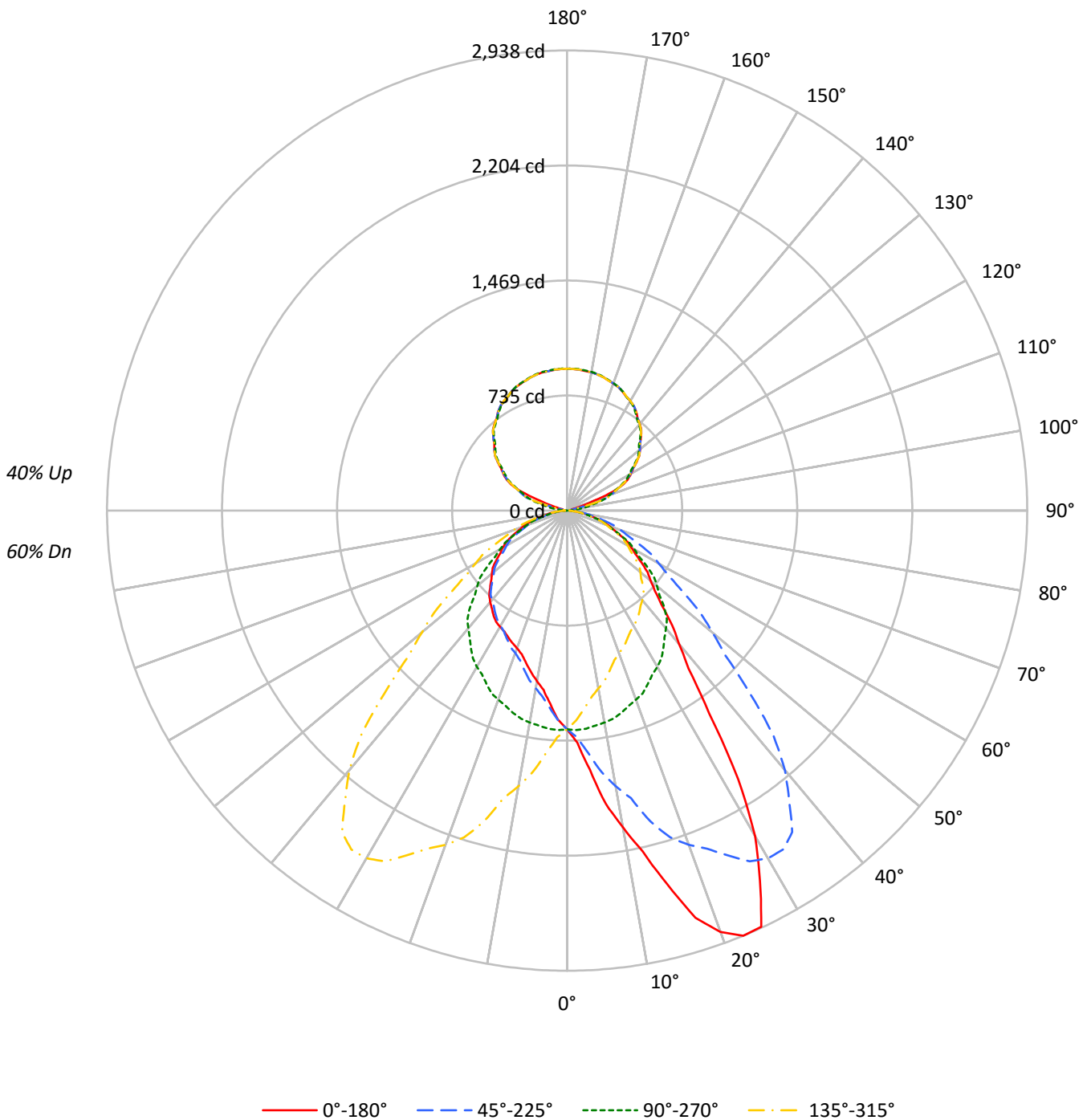
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332063-935

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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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66	60
1	100	96	92	89	94	90	87	84	79	76	74	68	66	65	59	57	56	52
2	92	84	78	73	86	79	74	69	69	65	62	60	57	55	52	50	48	44
3	84	74	67	61	78	70	63	58	61	56	52	54	50	47	46	43	41	37
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	38	36	32
5	71	59	51	45	66	56	48	43	49	43	39	43	39	35	38	34	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	31	34	30	27	25
7	60	48	40	34	56	45	38	33	40	34	30	36	31	27	31	27	24	22
8	56	44	36	31	52	41	34	29	37	31	27	33	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	23	20	18
10	49	37	29	25	46	35	28	24	31	26	22	28	23	20	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15033	15033	15033	15033
5°	17928	15098	13380	15098
10°	22440	15021	12085	15021
15°	27524	14900	11251	14900
20°	32787	14712	10711	14712
25°	34815	14481	10592	14481
30°	29840	14315	10648	14315
35°	20752	14076	10759	14076
40°	15632	13797	10725	13797
45°	12979	13381	10589	13381
50°	11627	12532	10493	12532
55°	10869	11618	10363	11618
60°	10196	10663	10256	10663
65°	9584	9722	9928	9722
70°	8988	8645	9454	8645
75°	8052	7569	8667	7569
80°	7048	6205	7469	6205
85°	5521	4508	5014	4508



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	2.0
10°-20°	441.2	6.3
20°-30°	740.4	10.6
30°-40°	838.4	12.0
40°-50°	751.8	10.8
50°-60°	606.7	8.7
60°-70°	422.8	6.1
70°-80°	222.2	3.2
80°-90°	56.9	0.8
90°-100°	32.9	0.5
100°-110°	157.0	2.2
110°-120°	377.1	5.4
120°-130°	480.2	6.9
130°-140°	513.1	7.3
140°-150°	479.8	6.9
150°-160°	387.0	5.5
160°-170°	249.8	3.6
170°-180°	86.1	1.2
0°-30°	1319.2	18.9
0°-40°	2157.5	30.9
0°-60°	3516.1	50.4
0°-90°	4218.0	60.4
90°-120°	567.0	8.1
90°-150°	2040.1	29.2
90°-180°	2763.0	39.6
0°-180°	6980.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1397	1397	1397	1397	1397	
5°	1659	1397	1238	1397	1659	172
15°	2470	1337	1010	1337	2470	713
25°	2931	1219	892	1219	2931	1286
35°	1579	1071	819	1071	1579	1026
45°	853	879	696	879	853	675
55°	579	619	552	619	579	520
65°	376	382	390	382	376	375
75°	194	182	208	182	194	207
85°	45	36	41	36	45	53
90°	20	1	20	1	20	11
95°	26	41	26	41	26	21
105°	30	201	30	201	30	68
115°	396	376	396	376	396	366
125°	541	530	541	530	541	483
135°	667	660	667	660	667	514
145°	769	762	769	762	769	480
155°	838	839	838	839	838	386
165°	883	885	883	885	883	249
175°	903	906	903	906	903	86
180°	906	906	906	906	906	



TEST NUMBER: P332063-935

CATALOG NUMBER: S123DIP-S1165D805U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1482.2	1481.1	1478.4	1480.6	1476.3	1470.2	1469.7	1464.3	1448.6	1447.5	1443.2
5°	1659.2	1653.8	1653.1	1652.4	1643.0	1630.1	1605.8	1603.7	1571.2	1555.0	1535.4
7.5°	1888.4	1891.3	1881.5	1872.8	1843.8	1824.7	1798.6	1765.2	1725.3	1684.8	1657.9
10°	2053.1	2075.4	2047.6	2028.7	2011.1	1977.9	1939.4	1891.3	1843.2	1787.1	1744.5
12.5°	2229.6	2240.5	2234.9	2217.1	2189.7	2139.2	2070.9	2018.0	1973.8	1880.3	1842.5
15°	2469.9	2511.2	2484.8	2423.9	2425.2	2377.1	2287.8	2189.7	2137.6	2055.7	1944.1
17.5°	2725.9	2731.1	2719.8	2669.1	2635.3	2569.2	2486.8	2392.7	2287.2	2188.1	2069.7
20°	2862.3	2858.3	2834.6	2808.2	2750.0	2698.6	2608.6	2503.7	2368.4	2271.0	2141.7
22.5°	2938.2	2931.4	2920.2	2898.0	2849.7	2794.4	2713.6	2599.0	2470.1	2335.9	2186.6
25°	2931.4	2940.1	2941.5	2935.4	2918.5	2885.4	2821.8	2730.4	2601.9	2429.3	2273.6
27.5°	2666.1	2678.6	2714.7	2746.8	2782.7	2819.2	2814.3	2769.0	2673.8	2524.8	2334.5
30°	2400.8	2373.8	2440.8	2525.4	2582.9	2684.3	2741.3	2744.6	2691.1	2563.3	2377.8
32.5°	2032.7	2062.5	2092.1	2196.2	2321.9	2435.9	2549.1	2640.2	2650.6	2565.4	2403.3
35°	1579.3	1616.6	1670.7	1724.8	1860.2	1976.6	2175.5	2348.7	2486.8	2505.1	2405.5
37.5°	1272.7	1291.1	1325.3	1379.6	1468.1	1606.2	1760.1	1979.0	2179.0	2327.8	2334.3
40°	1112.5	1117.8	1156.4	1197.7	1269.5	1383.1	1521.8	1715.4	1954.9	2162.7	2249.3
42.5°	992.3	1004.2	1020.5	1060.2	1117.3	1202.9	1331.9	1491.8	1711.3	1950.4	2119.9
45°	852.6	866.2	876.3	902.7	943.3	1000.8	1090.8	1237.0	1404.1	1651.1	1879.1
47.5°	760.3	761.4	769.0	788.8	816.5	859.6	923.3	1017.2	1170.6	1371.0	1605.1
50°	694.3	705.1	707.8	723.3	745.0	776.8	829.6	909.5	1035.4	1211.3	1426.4
52.5°	647.7	651.0	658.6	669.8	688.7	713.5	759.2	821.7	920.6	1070.5	1268.3
55°	579.2	579.2	586.7	595.5	606.3	628.6	659.1	705.1	780.2	896.6	1060.3
57.5°	515.9	519.3	524.5	527.3	536.5	551.2	576.7	611.6	667.6	757.2	887.4
60°	473.6	479.7	479.1	484.5	492.7	504.1	525.8	554.2	604.2	676.0	785.7
62.5°	436.9	436.4	436.4	442.8	450.9	461.9	476.0	500.6	543.1	606.7	700.1
65°	376.3	374.9	379.6	383.7	386.4	394.5	405.4	427.0	455.4	502.7	575.1
67.5°	322.4	318.5	321.0	322.4	327.0	333.3	343.5	356.9	379.4	417.5	472.1
70°	285.6	282.1	281.5	282.8	286.9	291.6	299.1	311.9	332.9	363.3	403.3
72.5°	247.6	245.4	245.2	248.2	250.1	253.2	258.5	270.3	286.9	309.8	347.0
75°	193.6	193.6	193.6	194.2	196.2	199.0	203.0	209.1	222.0	238.2	263.2
77.5°	145.1	144.9	144.1	144.0	147.0	148.2	149.1	154.8	162.0	173.0	191.2
80°	113.7	110.3	111.7	113.7	115.0	115.7	117.8	119.1	125.2	131.3	144.1
82.5°	84.5	81.6	81.9	85.0	85.2	85.9	88.0	89.9	92.1	97.7	104.6
85°	44.7	44.7	45.4	45.4	46.0	45.4	47.4	48.0	48.0	51.4	55.4
87.5°	20.3	19.1	19.6	20.1	19.5	20.0	20.4	20.8	21.2	21.6	21.8
90°	20.2	19.9	19.6	19.3	19.0	18.5	17.9	17.4	16.8	16.2	14.2
92.5°	22.4	22.1	22.0	21.8	21.6	21.1	20.1	19.1	18.2	17.2	15.8
95°	25.6	25.6	25.6	25.6	25.6	25.1	24.0	23.0	22.0	20.8	19.2
97.5°	27.7	27.6	27.5	27.3	27.1	26.4	25.2	24.1	22.9	21.7	32.5
100°	28.2	28.2	28.0	27.8	27.6	27.0	25.8	24.6	23.4	22.2	45.5
102.5°	28.8	28.5	28.2	28.0	27.7	29.4	33.1	36.9	40.6	44.3	69.7
105°	29.6	29.4	29.0	28.8	28.4	41.5	68.0	94.5	121.0	147.4	160.8
107.5°	93.0	113.0	132.9	152.9	172.8	192.5	212.0	231.4	250.8	270.2	268.0
110°	185.1	206.5	227.9	249.3	270.7	283.9	288.8	293.7	298.7	303.6	302.0



TEST NUMBER: P332063-935

CATALOG NUMBER: S123DIP-S1165D805U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	317.6	322.1	326.6	331.1	335.6	337.9	337.8	337.7	337.6	337.5	335.9
115°	395.8	395.2	394.6	394.0	393.4	392.4	390.9	389.3	387.9	386.4	385.0
117.5°	439.7	439.5	439.5	439.4	439.2	438.5	437.4	436.2	435.0	433.8	433.1
120°	469.8	469.8	469.8	469.8	469.8	469.2	468.0	466.8	465.6	464.4	464.0
122.5°	499.5	499.4	499.2	499.1	498.9	498.5	497.7	496.8	496.0	495.2	494.6
125°	541.2	540.9	540.6	540.3	540.0	539.7	539.4	539.1	538.8	538.5	537.9
127.5°	581.3	581.6	581.9	582.2	582.5	582.4	581.9	581.4	581.0	580.5	579.8
130°	607.2	607.4	607.8	608.0	608.4	608.2	607.6	607.0	606.4	605.8	605.2
132.5°	630.9	631.3	631.7	632.1	632.5	632.4	631.8	631.2	630.7	630.1	629.6
135°	667.1	667.5	668.0	668.4	668.8	668.8	668.4	668.0	667.5	667.1	666.5
137.5°	701.1	701.5	701.7	702.1	702.3	702.1	701.4	700.7	700.0	699.2	698.9
140°	721.6	721.9	722.2	722.5	722.8	722.6	722.0	721.4	720.8	720.2	719.8
142.5°	740.5	740.9	741.2	741.7	742.1	742.1	741.6	741.1	740.6	740.2	739.7
145°	769.4	769.4	769.4	769.4	769.4	769.2	769.0	768.6	768.4	768.0	767.8
147.5°	790.9	791.6	792.3	793.0	793.7	793.8	793.6	793.2	793.0	792.6	792.4
150°	807.1	807.5	808.0	808.4	808.9	808.9	808.7	808.3	808.0	807.8	807.4
152.5°	820.0	820.7	821.4	822.1	822.8	822.9	822.3	821.7	821.2	820.7	820.5
155°	838.0	839.0	839.8	840.8	841.6	841.7	840.9	840.2	839.5	838.7	838.5
157.5°	853.3	854.5	855.6	856.8	857.9	858.1	857.1	856.3	855.4	854.5	854.6
160°	863.0	864.0	865.0	866.1	867.1	867.2	866.3	865.4	864.5	863.6	863.8
162.5°	872.1	873.1	873.9	874.9	875.8	875.7	874.8	873.7	872.7	871.7	871.8
165°	883.1	884.2	885.2	886.3	887.3	887.3	886.1	884.8	883.6	882.4	882.6
167.5°	891.0	892.3	893.5	894.7	895.9	895.9	894.7	893.5	892.3	891.0	891.0
170°	896.0	897.2	898.3	899.5	900.7	900.7	899.5	898.3	897.2	896.0	896.0
172.5°	898.6	899.9	901.3	902.6	903.9	904.0	902.8	901.6	900.3	899.1	899.1
175°	902.7	903.9	905.1	906.3	907.4	907.5	906.5	905.4	904.4	903.4	903.2
177.5°	903.9	905.1	906.3	907.5	908.7	908.8	907.8	906.9	905.9	904.9	904.8
180°	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0



TEST NUMBER: P332063-935

CATALOG NUMBER: S123DIP-S1165D805U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1439.9	1435.6	1431.3	1423.7	1417.2	1408.0	1405.3	1402.1	1392.3	1383.7	1377.2
5°	1527.9	1511.7	1488.0	1466.4	1448.8	1425.1	1411.5	1397.3	1377.0	1358.7	1343.8
7.5°	1620.0	1588.0	1551.2	1511.4	1474.4	1438.6	1409.8	1384.1	1355.6	1328.7	1307.8
10°	1693.1	1647.0	1595.6	1540.2	1492.7	1446.7	1408.2	1374.3	1337.8	1306.0	1279.6
12.5°	1776.4	1708.2	1637.3	1569.9	1513.9	1450.0	1403.3	1360.3	1318.9	1280.6	1250.9
15°	1875.1	1788.5	1704.5	1611.9	1526.6	1446.7	1391.3	1337.1	1289.1	1249.8	1211.9
17.5°	1965.0	1866.8	1756.3	1643.5	1540.7	1446.0	1368.2	1307.1	1247.0	1198.9	1161.1
20°	2015.9	1904.2	1779.0	1661.9	1548.3	1442.7	1357.5	1284.4	1219.3	1168.6	1126.0
22.5°	2059.7	1929.1	1799.6	1674.4	1547.7	1434.0	1337.4	1262.1	1191.8	1142.1	1096.7
25°	2105.1	1948.9	1818.9	1672.1	1530.7	1412.9	1304.7	1219.3	1149.0	1090.8	1044.1
27.5°	2144.1	1947.5	1793.3	1635.4	1503.8	1385.9	1270.2	1178.8	1104.1	1040.9	993.5
30°	2170.1	1950.2	1766.8	1610.5	1477.9	1356.1	1243.7	1151.7	1073.2	1008.9	964.2
32.5°	2186.3	1948.5	1742.4	1575.9	1436.8	1329.0	1215.0	1119.7	1039.1	975.9	932.9
35°	2195.8	1936.6	1700.5	1504.3	1370.3	1265.4	1170.0	1071.2	986.6	927.7	879.0
37.5°	2176.9	1911.6	1651.7	1435.2	1288.6	1185.3	1105.0	1020.8	939.9	875.1	833.1
40°	2147.1	1895.4	1613.9	1386.6	1232.3	1132.7	1064.5	981.9	902.0	840.4	801.2
42.5°	2090.2	1862.3	1572.2	1332.4	1173.8	1074.3	1011.3	942.4	866.9	809.0	769.8
45°	1951.5	1790.4	1509.7	1251.2	1087.4	984.6	929.1	879.0	810.6	754.5	720.7
47.5°	1759.1	1682.4	1419.3	1165.5	997.3	898.4	840.7	800.4	750.4	705.1	672.6
50°	1625.4	1593.5	1358.1	1107.1	937.2	840.4	785.0	748.4	712.6	667.2	637.4
52.5°	1471.1	1490.7	1286.7	1046.4	876.1	780.9	728.7	699.6	667.1	629.8	603.9
55°	1253.9	1324.9	1163.2	944.6	785.0	694.3	644.9	619.1	600.2	572.5	550.2
57.5°	1050.5	1140.9	1029.8	839.7	695.5	617.3	569.9	541.9	529.7	515.2	497.7
60°	929.8	1019.1	934.5	769.4	635.4	560.9	519.0	495.3	483.1	473.0	458.1
62.5°	822.0	912.4	841.4	697.9	576.4	507.4	470.8	447.7	438.2	432.9	420.3
65°	674.0	751.8	704.4	586.7	492.0	431.0	397.9	381.7	372.8	370.8	362.7
67.5°	548.5	607.8	573.3	486.6	412.1	359.5	331.3	317.5	310.7	310.0	303.9
70°	466.2	521.7	495.3	416.8	352.6	311.3	286.9	274.7	270.7	270.0	266.7
72.5°	402.3	441.1	420.1	354.6	304.9	267.4	249.5	236.9	232.2	233.2	230.9
75°	297.7	326.8	314.7	269.3	229.4	205.0	190.1	182.0	178.0	180.0	177.3
77.5°	214.2	232.6	221.7	190.3	165.7	148.1	137.1	132.1	128.5	128.3	127.1
80°	161.7	172.5	166.4	147.5	127.3	112.4	103.5	100.1	98.2	97.5	96.8
82.5°	115.2	124.4	117.2	104.2	90.4	81.5	76.5	72.0	70.5	70.9	70.3
85°	58.2	61.6	58.9	50.7	45.4	41.2	38.6	36.5	35.2	35.9	34.5
87.5°	22.5	22.6	20.7	18.1	16.7	14.8	14.6	13.1	12.3	12.7	12.4
90°	12.2	10.3	8.4	6.6	5.2	3.7	2.2	0.7	2.2	3.7	5.2
92.5°	14.3	12.8	11.4	10.8	11.3	11.7	12.1	12.5	12.1	11.7	11.3
95°	17.6	15.9	14.3	16.5	22.6	28.8	35.0	41.1	35.0	28.8	22.6
97.5°	43.2	54.0	64.7	71.5	74.3	77.1	79.8	82.5	79.8	77.1	74.3
100°	68.9	92.2	115.5	125.7	122.7	119.8	116.8	113.7	116.8	119.8	122.7
102.5°	95.2	120.8	146.3	157.9	155.8	153.6	151.4	149.3	151.4	153.6	155.8
105°	174.4	187.8	201.3	207.2	205.5	203.9	202.2	200.6	202.2	203.9	205.5
107.5°	266.0	263.8	261.7	259.9	258.6	257.4	256.1	254.7	256.1	257.4	258.6
110°	300.3	298.7	297.0	295.6	294.4	293.2	292.0	290.8	292.0	293.2	294.4



TEST NUMBER: P332063-935

CATALOG NUMBER: S123DIP-S1165D805U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	334.2	332.6	330.9	329.6	328.5	327.4	326.3	325.3	326.3	327.4	328.5
115°	383.7	382.4	381.0	379.9	379.0	378.1	377.2	376.3	377.2	378.1	379.0
117.5°	432.4	431.7	431.0	430.1	429.0	427.9	426.8	425.7	426.8	427.9	429.0
120°	463.6	463.1	462.7	461.8	460.4	459.1	457.7	456.4	457.7	459.1	460.4
122.5°	494.0	493.4	492.8	492.1	490.9	489.8	488.7	487.6	488.7	489.8	490.9
125°	537.3	536.7	536.1	535.2	534.0	532.8	531.6	530.5	531.6	532.8	534.0
127.5°	579.1	578.3	577.6	576.7	575.5	574.3	573.1	571.9	573.1	574.3	575.5
130°	604.6	604.0	603.4	602.5	601.3	600.1	598.9	597.7	598.9	600.1	601.3
132.5°	629.0	628.6	628.1	627.3	626.1	624.9	623.7	622.5	623.7	624.9	626.1
135°	665.9	665.3	664.7	663.9	663.1	662.1	661.2	660.3	661.2	662.1	663.1
137.5°	698.6	698.3	697.9	697.2	696.0	694.9	693.8	692.7	693.8	694.9	696.0
140°	719.4	718.9	718.4	717.8	716.9	716.0	715.1	714.2	715.1	716.0	716.9
142.5°	739.3	738.8	738.4	737.7	736.8	735.9	735.0	734.1	735.0	735.9	736.8
145°	767.4	767.2	766.8	766.2	765.1	764.1	763.0	762.0	763.0	764.1	765.1
147.5°	792.0	791.8	791.5	791.0	790.3	789.6	788.9	788.2	788.9	789.6	790.3
150°	807.2	806.8	806.6	806.2	805.7	805.3	804.9	804.3	804.9	805.3	805.7
152.5°	820.3	820.1	819.9	819.8	819.6	819.3	819.2	818.9	819.2	819.3	819.6
155°	838.4	838.3	838.1	838.2	838.5	838.8	839.1	839.4	839.1	838.8	838.5
157.5°	854.8	854.9	855.1	855.1	855.1	855.2	855.2	855.2	855.2	855.2	855.1
160°	863.9	864.1	864.2	864.4	864.5	864.7	864.8	865.0	864.8	864.7	864.5
162.5°	872.0	872.1	872.3	872.5	873.0	873.3	873.7	874.1	873.7	873.3	873.0
165°	882.8	883.0	883.0	883.4	883.8	884.2	884.7	885.2	884.7	884.2	883.8
167.5°	891.0	891.0	891.0	891.4	892.0	892.6	893.2	893.8	893.2	892.6	892.0
170°	896.0	896.0	896.0	896.2	896.8	897.4	898.0	898.6	898.0	897.4	896.8
172.5°	898.9	898.8	898.7	899.0	899.7	900.4	901.1	901.8	901.1	900.4	899.7
175°	903.0	902.8	902.8	903.0	903.8	904.6	905.3	906.0	905.3	904.6	903.8
177.5°	904.7	904.6	904.5	904.7	905.3	905.9	906.5	907.1	906.5	905.9	905.3
180°	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0



TEST NUMBER: P332063-935

CATALOG NUMBER: S123DIP-S1165D805U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1373.4	1369.6	1364.2	1356.1	1349.5	1339.3	1339.3	1340.9	1340.9	1340.4	1339.3
5°	1331.7	1321.5	1309.4	1295.2	1280.3	1265.4	1262.7	1257.2	1253.2	1250.5	1247.2
7.5°	1287.7	1269.7	1252.0	1232.1	1213.9	1198.9	1188.5	1179.8	1174.3	1168.4	1164.0
10°	1257.9	1235.6	1214.6	1193.7	1170.6	1152.4	1140.9	1132.7	1126.7	1121.3	1118.5
12.5°	1222.8	1197.2	1174.1	1154.2	1128.9	1110.2	1099.2	1095.4	1088.2	1076.9	1070.9
15°	1171.3	1147.6	1119.9	1089.4	1077.3	1054.3	1041.4	1035.4	1031.2	1022.4	1019.8
17.5°	1127.3	1096.3	1065.2	1042.5	1019.9	1001.2	994.0	986.4	981.0	973.9	971.7
20°	1092.2	1064.5	1036.0	1011.7	987.9	967.7	961.6	956.1	950.7	947.4	944.6
22.5°	1056.4	1028.7	1005.1	982.4	957.1	943.8	937.2	931.3	927.5	925.1	922.5
25°	1006.3	981.9	955.5	935.1	914.9	906.0	902.0	898.6	896.0	892.5	891.8
27.5°	961.3	934.8	913.3	894.4	879.9	872.5	868.6	866.9	867.5	868.7	869.5
30°	927.7	903.4	885.8	869.5	856.0	849.2	848.5	848.5	851.3	852.0	853.3
32.5°	896.9	876.8	859.3	843.5	833.3	828.6	831.2	831.2	833.4	835.2	837.6
35°	852.0	834.3	820.8	807.3	798.5	800.5	801.8	803.2	806.6	810.6	813.4
37.5°	809.0	793.8	779.6	769.1	765.1	768.7	772.0	774.8	778.7	781.9	784.5
40°	778.2	766.6	753.1	743.6	745.0	747.1	749.8	753.1	756.6	758.5	761.3
42.5°	749.5	737.4	727.2	719.3	721.2	723.8	725.4	727.2	731.1	734.8	736.3
45°	705.8	696.3	686.8	682.1	683.5	684.8	686.1	688.2	691.6	694.3	694.9
47.5°	656.7	650.1	643.7	639.0	641.2	640.7	642.5	646.8	647.8	649.5	653.2
50°	625.3	619.1	611.7	610.4	610.4	610.4	611.1	616.5	616.5	619.1	621.9
52.5°	590.6	586.7	581.9	579.5	578.4	578.4	581.3	584.0	585.0	588.8	591.6
55°	539.3	535.3	531.2	529.2	527.8	529.2	534.6	535.9	539.3	541.3	543.4
57.5°	485.9	482.8	479.5	478.4	478.1	479.9	482.8	486.9	487.8	494.0	497.1
60°	450.6	445.9	443.2	443.2	441.9	448.0	446.6	453.4	454.7	458.8	463.6
62.5°	414.4	408.0	407.0	407.0	408.9	410.6	412.5	415.5	419.0	424.1	427.8
65°	355.9	352.6	357.3	356.6	355.2	359.3	359.3	362.7	366.8	371.5	378.9
67.5°	300.6	298.9	299.2	299.2	301.3	303.6	305.5	308.4	313.3	318.3	323.2
70°	263.2	265.3	261.9	264.6	266.7	267.3	268.6	272.7	278.1	281.5	286.9
72.5°	227.0	226.8	227.2	228.3	230.3	231.5	232.9	237.5	243.5	246.3	250.6
75°	174.6	173.9	175.9	175.9	179.3	180.6	182.0	184.1	189.5	193.6	196.9
77.5°	127.5	128.3	127.9	130.2	129.2	129.5	133.7	135.8	136.3	144.3	146.0
80°	96.1	97.5	98.2	98.8	99.4	98.2	102.9	104.9	104.9	109.6	113.0
82.5°	69.1	69.8	71.6	72.2	72.4	73.8	74.1	75.7	77.3	79.3	83.8
85°	34.5	36.5	37.2	36.5	37.2	35.9	37.9	38.6	39.3	39.3	39.3
87.5°	12.1	13.0	12.9	13.9	13.7	14.6	14.7	13.8	13.9	15.6	13.5
90°	6.6	8.4	10.3	12.2	14.2	16.2	16.8	17.4	17.9	18.5	19.0
92.5°	10.8	11.4	12.8	14.3	15.8	17.2	18.2	19.1	20.1	21.1	21.6
95°	16.5	14.3	15.9	17.6	19.2	20.8	22.0	23.0	24.0	25.1	25.6
97.5°	71.5	64.7	54.0	43.2	32.5	21.7	22.9	24.1	25.2	26.4	27.1
100°	125.7	115.5	92.2	68.9	45.5	22.2	23.4	24.6	25.8	27.0	27.6
102.5°	157.9	146.3	120.8	95.2	69.7	44.3	40.6	36.9	33.1	29.4	27.7
105°	207.2	201.3	187.8	174.4	160.8	147.4	121.0	94.5	68.0	41.5	28.4
107.5°	259.9	261.7	263.8	266.0	268.0	270.2	250.8	231.4	212.0	192.5	172.8
110°	295.6	297.0	298.7	300.3	302.0	303.6	298.7	293.7	288.8	283.9	270.7



TEST NUMBER: P332063-935

CATALOG NUMBER: S123DIP-S1165D805U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	329.6	330.9	332.6	334.2	335.9	337.5	337.6	337.7	337.8	337.9	335.6
115°	379.9	381.0	382.4	383.7	385.0	386.4	387.9	389.3	390.9	392.4	393.4
117.5°	430.1	431.0	431.7	432.4	433.1	433.8	435.0	436.2	437.4	438.5	439.2
120°	461.8	462.7	463.1	463.6	464.0	464.4	465.6	466.8	468.0	469.2	469.8
122.5°	492.1	492.8	493.4	494.0	494.6	495.2	496.0	496.8	497.7	498.5	498.9
125°	535.2	536.1	536.7	537.3	537.9	538.5	538.8	539.1	539.4	539.7	540.0
127.5°	576.7	577.6	578.3	579.1	579.8	580.5	581.0	581.4	581.9	582.4	582.5
130°	602.5	603.4	604.0	604.6	605.2	605.8	606.4	607.0	607.6	608.2	608.4
132.5°	627.3	628.1	628.6	629.0	629.6	630.1	630.7	631.2	631.8	632.4	632.5
135°	663.9	664.7	665.3	665.9	666.5	667.1	667.5	668.0	668.4	668.8	668.8
137.5°	697.2	697.9	698.3	698.6	698.9	699.2	700.0	700.7	701.4	702.1	702.3
140°	717.8	718.4	718.9	719.4	719.8	720.2	720.8	721.4	722.0	722.6	722.8
142.5°	737.7	738.4	738.8	739.3	739.7	740.2	740.6	741.1	741.6	742.1	742.1
145°	766.2	766.8	767.2	767.4	767.8	768.0	768.4	768.6	769.0	769.2	769.4
147.5°	791.0	791.5	791.8	792.0	792.4	792.6	793.0	793.2	793.6	793.8	793.7
150°	806.2	806.6	806.8	807.2	807.4	807.8	808.0	808.3	808.7	808.9	808.9
152.5°	819.8	819.9	820.1	820.3	820.5	820.7	821.2	821.7	822.3	822.9	822.8
155°	838.2	838.1	838.3	838.4	838.5	838.7	839.5	840.2	840.9	841.7	841.6
157.5°	855.1	855.1	854.9	854.8	854.6	854.5	855.4	856.3	857.1	858.1	857.9
160°	864.4	864.2	864.1	863.9	863.8	863.6	864.5	865.4	866.3	867.2	867.1
162.5°	872.5	872.3	872.1	872.0	871.8	871.7	872.7	873.7	874.8	875.7	875.8
165°	883.4	883.0	883.0	882.8	882.6	882.4	883.6	884.8	886.1	887.3	887.3
167.5°	891.4	891.0	891.0	891.0	891.0	891.0	892.3	893.5	894.7	895.9	895.9
170°	896.2	896.0	896.0	896.0	896.0	896.0	897.2	898.3	899.5	900.7	900.7
172.5°	899.0	898.7	898.8	898.9	899.1	899.1	900.3	901.6	902.8	904.0	903.9
175°	903.0	902.8	902.8	903.0	903.2	903.4	904.4	905.4	906.5	907.5	907.4
177.5°	904.7	904.5	904.6	904.7	904.8	904.9	905.9	906.9	907.8	908.8	908.7
180°	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0



TEST NUMBER: P332063-935

CATALOG NUMBER: S123DIP-S1165D805U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1335.5	1335.0	1338.8	1336.0	1338.8	1335.0	1335.5	1339.3	1340.4	1340.9	1340.9
5°	1243.0	1245.1	1238.3	1238.3	1238.3	1245.1	1243.0	1247.2	1250.5	1253.2	1257.2
7.5°	1160.8	1157.8	1158.0	1154.4	1158.0	1157.8	1160.8	1164.0	1168.4	1174.3	1179.8
10°	1110.4	1106.4	1105.0	1105.7	1105.0	1106.4	1110.4	1118.5	1121.3	1126.7	1132.7
12.5°	1068.8	1067.9	1059.0	1059.1	1059.0	1067.9	1068.8	1070.9	1076.9	1088.2	1095.4
15°	1019.8	1006.9	1005.6	1009.6	1005.6	1006.9	1019.8	1019.8	1022.4	1031.2	1035.4
17.5°	970.6	963.9	964.2	962.3	964.2	963.9	970.6	971.7	973.9	981.0	986.4
20°	944.6	940.6	939.9	935.1	939.9	940.6	944.6	944.6	947.4	950.7	956.1
22.5°	920.8	919.5	919.9	914.6	919.9	919.5	920.8	922.5	925.1	927.5	931.3
25°	891.2	894.6	891.8	891.8	891.8	894.6	891.2	891.8	892.5	896.0	898.6
27.5°	871.2	871.0	869.7	869.7	869.7	871.0	871.2	869.5	868.7	867.5	866.9
30°	856.0	855.3	856.7	856.7	856.7	855.3	856.0	853.3	852.0	851.3	848.5
32.5°	840.9	841.8	842.1	842.6	842.1	841.8	840.9	837.6	835.2	833.4	831.2
35°	817.4	818.1	820.1	818.8	820.1	818.1	817.4	813.4	810.6	806.6	803.2
37.5°	785.7	788.8	788.2	789.3	788.2	788.8	785.7	784.5	781.9	778.7	774.8
40°	761.9	764.0	763.3	763.3	763.3	764.0	761.9	761.3	758.5	756.6	753.1
42.5°	737.6	739.1	737.3	736.2	737.3	739.1	737.6	736.3	734.8	731.1	727.2
45°	697.7	696.3	698.4	695.6	698.4	696.3	697.7	694.9	694.3	691.6	688.2
47.5°	653.0	654.4	654.9	656.9	654.9	654.4	653.0	653.2	649.5	647.8	646.8
50°	623.2	627.2	627.2	626.6	627.2	627.2	623.2	621.9	619.1	616.5	616.5
52.5°	594.0	595.9	598.6	598.5	598.6	595.9	594.0	591.6	588.8	585.0	584.0
55°	548.8	550.2	551.5	552.2	551.5	550.2	548.8	543.4	541.3	539.3	535.9
57.5°	502.0	501.4	504.6	505.6	504.6	501.4	502.0	497.1	494.0	487.8	486.9
60°	468.9	468.9	474.3	476.4	474.3	468.9	468.9	463.6	458.8	454.7	453.4
62.5°	433.8	435.9	441.3	438.5	441.3	435.9	433.8	427.8	424.1	419.0	415.5
65°	382.3	387.7	387.0	389.8	387.0	387.7	382.3	378.9	371.5	366.8	362.7
67.5°	328.6	332.0	336.8	337.3	336.8	332.0	328.6	323.2	318.3	313.3	308.4
70°	292.3	295.7	298.4	300.4	298.4	295.7	292.3	286.9	281.5	278.1	272.7
72.5°	257.2	258.9	265.4	262.5	265.4	258.9	257.2	250.6	246.3	243.5	237.5
75°	201.6	206.4	210.4	208.4	210.4	206.4	201.6	196.9	193.6	189.5	184.1
77.5°	149.1	153.9	155.8	154.0	155.8	153.9	149.1	146.0	144.3	136.3	135.8
80°	117.8	117.1	121.1	120.5	121.1	117.1	117.8	113.0	109.6	104.9	104.9
82.5°	86.4	85.7	87.6	88.0	87.6	85.7	86.4	83.8	79.3	77.3	75.7
85°	41.9	44.0	41.2	40.6	41.2	44.0	41.9	39.3	39.3	39.3	38.6
87.5°	13.6	13.7	13.2	12.7	13.2	13.7	13.6	13.5	15.6	13.9	13.8
90°	19.3	19.6	19.9	20.2	19.9	19.6	19.3	19.0	18.5	17.9	17.4
92.5°	21.8	22.0	22.1	22.4	22.1	22.0	21.8	21.6	21.1	20.1	19.1
95°	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.1	24.0	23.0
97.5°	27.3	27.5	27.6	27.7	27.6	27.5	27.3	27.1	26.4	25.2	24.1
100°	27.8	28.0	28.2	28.2	28.2	28.0	27.8	27.6	27.0	25.8	24.6
102.5°	28.0	28.2	28.5	28.8	28.5	28.2	28.0	27.7	29.4	33.1	36.9
105°	28.8	29.0	29.4	29.6	29.4	29.0	28.8	28.4	41.5	68.0	94.5
107.5°	152.9	132.9	113.0	93.0	113.0	132.9	152.9	172.8	192.5	212.0	231.4
110°	249.3	227.9	206.5	185.1	206.5	227.9	249.3	270.7	283.9	288.8	293.7



TEST NUMBER: P332063-935

CATALOG NUMBER: S123DIP-S1165D805U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	331.1	326.6	322.1	317.6	322.1	326.6	331.1	335.6	337.9	337.8	337.7
115°	394.0	394.6	395.2	395.8	395.2	394.6	394.0	393.4	392.4	390.9	389.3
117.5°	439.4	439.5	439.5	439.7	439.5	439.5	439.4	439.2	438.5	437.4	436.2
120°	469.8	469.8	469.8	469.8	469.8	469.8	469.8	469.8	469.2	468.0	466.8
122.5°	499.1	499.2	499.4	499.5	499.4	499.2	499.1	498.9	498.5	497.7	496.8
125°	540.3	540.6	540.9	541.2	540.9	540.6	540.3	540.0	539.7	539.4	539.1
127.5°	582.2	581.9	581.6	581.3	581.6	581.9	582.2	582.5	582.4	581.9	581.4
130°	608.0	607.8	607.4	607.2	607.4	607.8	608.0	608.4	608.2	607.6	607.0
132.5°	632.1	631.7	631.3	630.9	631.3	631.7	632.1	632.5	632.4	631.8	631.2
135°	668.4	668.0	667.5	667.1	667.5	668.0	668.4	668.8	668.8	668.4	668.0
137.5°	702.1	701.7	701.5	701.1	701.5	701.7	702.1	702.3	702.1	701.4	700.7
140°	722.5	722.2	721.9	721.6	721.9	722.2	722.5	722.8	722.6	722.0	721.4
142.5°	741.7	741.2	740.9	740.5	740.9	741.2	741.7	742.1	742.1	741.6	741.1
145°	769.4	769.4	769.4	769.4	769.4	769.4	769.4	769.4	769.2	769.0	768.6
147.5°	793.0	792.3	791.6	790.9	791.6	792.3	793.0	793.7	793.8	793.6	793.2
150°	808.4	808.0	807.5	807.1	807.5	808.0	808.4	808.9	808.9	808.7	808.3
152.5°	822.1	821.4	820.7	820.0	820.7	821.4	822.1	822.8	822.9	822.3	821.7
155°	840.8	839.8	839.0	838.0	839.0	839.8	840.8	841.6	841.7	840.9	840.2
157.5°	856.8	855.6	854.5	853.3	854.5	855.6	856.8	857.9	858.1	857.1	856.3
160°	866.1	865.0	864.0	863.0	864.0	865.0	866.1	867.1	867.2	866.3	865.4
162.5°	874.9	873.9	873.1	872.1	873.1	873.9	874.9	875.8	875.7	874.8	873.7
165°	886.3	885.2	884.2	883.1	884.2	885.2	886.3	887.3	887.3	886.1	884.8
167.5°	894.7	893.5	892.3	891.0	892.3	893.5	894.7	895.9	895.9	894.7	893.5
170°	899.5	898.3	897.2	896.0	897.2	898.3	899.5	900.7	900.7	899.5	898.3
172.5°	902.6	901.3	899.9	898.6	899.9	901.3	902.6	903.9	904.0	902.8	901.6
175°	906.3	905.1	903.9	902.7	903.9	905.1	906.3	907.4	907.5	906.5	905.4
177.5°	907.5	906.3	905.1	903.9	905.1	906.3	907.5	908.7	908.8	907.8	906.9
180°	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0



TEST NUMBER: P332063-935

CATALOG NUMBER: S123DIP-S1165D805U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1339.3	1339.3	1349.5	1356.1	1364.2	1369.6	1373.4	1377.2	1383.7	1392.3	1402.1
5°	1262.7	1265.4	1280.3	1295.2	1309.4	1321.5	1331.7	1343.8	1358.7	1377.0	1397.3
7.5°	1188.5	1198.9	1213.9	1232.1	1252.0	1269.7	1287.7	1307.8	1328.7	1355.6	1384.1
10°	1140.9	1152.4	1170.6	1193.7	1214.6	1235.6	1257.9	1279.6	1306.0	1337.8	1374.3
12.5°	1099.2	1110.2	1128.9	1154.2	1174.1	1197.2	1222.8	1250.9	1280.6	1318.9	1360.3
15°	1041.4	1054.3	1077.3	1089.4	1119.9	1147.6	1171.3	1211.9	1249.8	1289.1	1337.1
17.5°	994.0	1001.2	1019.9	1042.5	1065.2	1096.3	1127.3	1161.1	1198.9	1247.0	1307.1
20°	961.6	967.7	987.9	1011.7	1036.0	1064.5	1092.2	1126.0	1168.6	1219.3	1284.4
22.5°	937.2	943.8	957.1	982.4	1005.1	1028.7	1056.4	1096.7	1142.1	1191.8	1262.1
25°	902.0	906.0	914.9	935.1	955.5	981.9	1006.3	1044.1	1090.8	1149.0	1219.3
27.5°	868.6	872.5	879.9	894.4	913.3	934.8	961.3	993.5	1040.9	1104.1	1178.8
30°	848.5	849.2	856.0	869.5	885.8	903.4	927.7	964.2	1008.9	1073.2	1151.7
32.5°	831.2	828.6	833.3	843.5	859.3	876.8	896.9	932.9	975.9	1039.1	1119.7
35°	801.8	800.5	798.5	807.3	820.8	834.3	852.0	879.0	927.7	986.6	1071.2
37.5°	772.0	768.7	765.1	769.1	779.6	793.8	809.0	833.1	875.1	939.9	1020.8
40°	749.8	747.1	745.0	743.6	753.1	766.6	778.2	801.2	840.4	902.0	981.9
42.5°	725.4	723.8	721.2	719.3	727.2	737.4	749.5	769.8	809.0	866.9	942.4
45°	686.1	684.8	683.5	682.1	686.8	696.3	705.8	720.7	754.5	810.6	879.0
47.5°	642.5	640.7	641.2	639.0	643.7	650.1	656.7	672.6	705.1	750.4	800.4
50°	611.1	610.4	610.4	610.4	611.7	619.1	625.3	637.4	667.2	712.6	748.4
52.5°	581.3	578.4	578.4	579.5	581.9	586.7	590.6	603.9	629.8	667.1	699.6
55°	534.6	529.2	527.8	529.2	531.2	535.3	539.3	550.2	572.5	600.2	619.1
57.5°	482.8	479.9	478.1	478.4	479.5	482.8	485.9	497.7	515.2	529.7	541.9
60°	446.6	448.0	441.9	443.2	443.2	445.9	450.6	458.1	473.0	483.1	495.3
62.5°	412.5	410.6	408.9	407.0	407.0	408.0	414.4	420.3	432.9	438.2	447.7
65°	359.3	359.3	355.2	356.6	357.3	352.6	355.9	362.7	370.8	372.8	381.7
67.5°	305.5	303.6	301.3	299.2	299.2	298.9	300.6	303.9	310.0	310.7	317.5
70°	268.6	267.3	266.7	264.6	261.9	265.3	263.2	266.7	270.0	270.7	274.7
72.5°	232.9	231.5	230.3	228.3	227.2	226.8	227.0	230.9	233.2	232.2	236.9
75°	182.0	180.6	179.3	175.9	175.9	173.9	174.6	177.3	180.0	178.0	182.0
77.5°	133.7	129.5	129.2	130.2	127.9	128.3	127.5	127.1	128.3	128.5	132.1
80°	102.9	98.2	99.4	98.8	98.2	97.5	96.1	96.8	97.5	98.2	100.1
82.5°	74.1	73.8	72.4	72.2	71.6	69.8	69.1	70.3	70.9	70.5	72.0
85°	37.9	35.9	37.2	36.5	37.2	36.5	34.5	34.5	35.9	35.2	36.5
87.5°	14.7	14.6	13.7	13.9	12.9	13.0	12.1	12.4	12.7	12.3	13.1
90°	16.8	16.2	14.2	12.2	10.3	8.4	6.6	5.2	3.7	2.2	0.7
92.5°	18.2	17.2	15.8	14.3	12.8	11.4	10.8	11.3	11.7	12.1	12.5
95°	22.0	20.8	19.2	17.6	15.9	14.3	16.5	22.6	28.8	35.0	41.1
97.5°	22.9	21.7	32.5	43.2	54.0	64.7	71.5	74.3	77.1	79.8	82.5
100°	23.4	22.2	45.5	68.9	92.2	115.5	125.7	122.7	119.8	116.8	113.7
102.5°	40.6	44.3	69.7	95.2	120.8	146.3	157.9	155.8	153.6	151.4	149.3
105°	121.0	147.4	160.8	174.4	187.8	201.3	207.2	205.5	203.9	202.2	200.6
107.5°	250.8	270.2	268.0	266.0	263.8	261.7	259.9	258.6	257.4	256.1	254.7
110°	298.7	303.6	302.0	300.3	298.7	297.0	295.6	294.4	293.2	292.0	290.8



TEST NUMBER: P332063-935

CATALOG NUMBER: S123DIP-S1165D805U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	337.6	337.5	335.9	334.2	332.6	330.9	329.6	328.5	327.4	326.3	325.3
115°	387.9	386.4	385.0	383.7	382.4	381.0	379.9	379.0	378.1	377.2	376.3
117.5°	435.0	433.8	433.1	432.4	431.7	431.0	430.1	429.0	427.9	426.8	425.7
120°	465.6	464.4	464.0	463.6	463.1	462.7	461.8	460.4	459.1	457.7	456.4
122.5°	496.0	495.2	494.6	494.0	493.4	492.8	492.1	490.9	489.8	488.7	487.6
125°	538.8	538.5	537.9	537.3	536.7	536.1	535.2	534.0	532.8	531.6	530.5
127.5°	581.0	580.5	579.8	579.1	578.3	577.6	576.7	575.5	574.3	573.1	571.9
130°	606.4	605.8	605.2	604.6	604.0	603.4	602.5	601.3	600.1	598.9	597.7
132.5°	630.7	630.1	629.6	629.0	628.6	628.1	627.3	626.1	624.9	623.7	622.5
135°	667.5	667.1	666.5	665.9	665.3	664.7	663.9	663.1	662.1	661.2	660.3
137.5°	700.0	699.2	698.9	698.6	698.3	697.9	697.2	696.0	694.9	693.8	692.7
140°	720.8	720.2	719.8	719.4	718.9	718.4	717.8	716.9	716.0	715.1	714.2
142.5°	740.6	740.2	739.7	739.3	738.8	738.4	737.7	736.8	735.9	735.0	734.1
145°	768.4	768.0	767.8	767.4	767.2	766.8	766.2	765.1	764.1	763.0	762.0
147.5°	793.0	792.6	792.4	792.0	791.8	791.5	791.0	790.3	789.6	788.9	788.2
150°	808.0	807.8	807.4	807.2	806.8	806.6	806.2	805.7	805.3	804.9	804.3
152.5°	821.2	820.7	820.5	820.3	820.1	819.9	819.8	819.6	819.3	819.2	818.9
155°	839.5	838.7	838.5	838.4	838.3	838.1	838.2	838.5	838.8	839.1	839.4
157.5°	855.4	854.5	854.6	854.8	854.9	855.1	855.1	855.1	855.2	855.2	855.2
160°	864.5	863.6	863.8	863.9	864.1	864.2	864.4	864.5	864.7	864.8	865.0
162.5°	872.7	871.7	871.8	872.0	872.1	872.3	872.5	873.0	873.3	873.7	874.1
165°	883.6	882.4	882.6	882.8	883.0	883.0	883.4	883.8	884.2	884.7	885.2
167.5°	892.3	891.0	891.0	891.0	891.0	891.0	891.4	892.0	892.6	893.2	893.8
170°	897.2	896.0	896.0	896.0	896.0	896.0	896.2	896.8	897.4	898.0	898.6
172.5°	900.3	899.1	899.1	898.9	898.8	898.7	899.0	899.7	900.4	901.1	901.8
175°	904.4	903.4	903.2	903.0	902.8	902.8	903.0	903.8	904.6	905.3	906.0
177.5°	905.9	904.9	904.8	904.7	904.6	904.5	904.7	905.3	905.9	906.5	907.1
180°	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0



TEST NUMBER: P332063-935

CATALOG NUMBER: S123DIP-S1165D805U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1405.3	1408.0	1417.2	1423.7	1431.3	1435.6	1439.9	1443.2	1447.5	1448.6	1464.3
5°	1411.5	1425.1	1448.8	1466.4	1488.0	1511.7	1527.9	1535.4	1555.0	1571.2	1603.7
7.5°	1409.8	1438.6	1474.4	1511.4	1551.2	1588.0	1620.0	1657.9	1684.8	1725.3	1765.2
10°	1408.2	1446.7	1492.7	1540.2	1595.6	1647.0	1693.1	1744.5	1787.1	1843.2	1891.3
12.5°	1403.3	1450.0	1513.9	1569.9	1637.3	1708.2	1776.4	1842.5	1880.3	1973.8	2018.0
15°	1391.3	1446.7	1526.6	1611.9	1704.5	1788.5	1875.1	1944.1	2055.7	2137.6	2189.7
17.5°	1368.2	1446.0	1540.7	1643.5	1756.3	1866.8	1965.0	2069.7	2188.1	2287.2	2392.7
20°	1357.5	1442.7	1548.3	1661.9	1779.0	1904.2	2015.9	2141.7	2271.0	2368.4	2503.7
22.5°	1337.4	1434.0	1547.7	1674.4	1799.6	1929.1	2059.7	2186.6	2335.9	2470.1	2599.0
25°	1304.7	1412.9	1530.7	1672.1	1818.9	1948.9	2105.1	2273.6	2429.3	2601.9	2730.4
27.5°	1270.2	1385.9	1503.8	1635.4	1793.3	1947.5	2144.1	2334.5	2524.8	2673.8	2769.0
30°	1243.7	1356.1	1477.9	1610.5	1766.8	1950.2	2170.1	2377.8	2563.3	2691.1	2744.6
32.5°	1215.0	1329.0	1436.8	1575.9	1742.4	1948.5	2186.3	2403.3	2565.4	2650.6	2640.2
35°	1170.0	1265.4	1370.3	1504.3	1700.5	1936.6	2195.8	2405.5	2505.1	2486.8	2348.7
37.5°	1105.0	1185.3	1288.6	1435.2	1651.7	1911.6	2176.9	2334.3	2327.8	2179.0	1979.0
40°	1064.5	1132.7	1232.3	1386.6	1613.9	1895.4	2147.1	2249.3	2162.7	1954.9	1715.4
42.5°	1011.3	1074.3	1173.8	1332.4	1572.2	1862.3	2090.2	2119.9	1950.4	1711.3	1491.8
45°	929.1	984.6	1087.4	1251.2	1509.7	1790.4	1951.5	1879.1	1651.1	1404.1	1237.0
47.5°	840.7	898.4	997.3	1165.5	1419.3	1682.4	1759.1	1605.1	1371.0	1170.6	1017.2
50°	785.0	840.4	937.2	1107.1	1358.1	1593.5	1625.4	1426.4	1211.3	1035.4	909.5
52.5°	728.7	780.9	876.1	1046.4	1286.7	1490.7	1471.1	1268.3	1070.5	920.6	821.7
55°	644.9	694.3	785.0	944.6	1163.2	1324.9	1253.9	1060.3	896.6	780.2	705.1
57.5°	569.9	617.3	695.5	839.7	1029.8	1140.9	1050.5	887.4	757.2	667.6	611.6
60°	519.0	560.9	635.4	769.4	934.5	1019.1	929.8	785.7	676.0	604.2	554.2
62.5°	470.8	507.4	576.4	697.9	841.4	912.4	822.0	700.1	606.7	543.1	500.6
65°	397.9	431.0	492.0	586.7	704.4	751.8	674.0	575.1	502.7	455.4	427.0
67.5°	331.3	359.5	412.1	486.6	573.3	607.8	548.5	472.1	417.5	379.4	356.9
70°	286.9	311.3	352.6	416.8	495.3	521.7	466.2	403.3	363.3	332.9	311.9
72.5°	249.5	267.4	304.9	354.6	420.1	441.1	402.3	347.0	309.8	286.9	270.3
75°	190.1	205.0	229.4	269.3	314.7	326.8	297.7	263.2	238.2	222.0	209.1
77.5°	137.1	148.1	165.7	190.3	221.7	232.6	214.2	191.2	173.0	162.0	154.8
80°	103.5	112.4	127.3	147.5	166.4	172.5	161.7	144.1	131.3	125.2	119.1
82.5°	76.5	81.5	90.4	104.2	117.2	124.4	115.2	104.6	97.7	92.1	89.9
85°	38.6	41.2	45.4	50.7	58.9	61.6	58.2	55.4	51.4	48.0	48.0
87.5°	14.6	14.8	16.7	18.1	20.7	22.6	22.5	21.8	21.6	21.2	20.8
90°	2.2	3.7	5.2	6.6	8.4	10.3	12.2	14.2	16.2	16.8	17.4
92.5°	12.1	11.7	11.3	10.8	11.4	12.8	14.3	15.8	17.2	18.2	19.1
95°	35.0	28.8	22.6	16.5	14.3	15.9	17.6	19.2	20.8	22.0	23.0
97.5°	79.8	77.1	74.3	71.5	64.7	54.0	43.2	32.5	21.7	22.9	24.1
100°	116.8	119.8	122.7	125.7	115.5	92.2	68.9	45.5	22.2	23.4	24.6
102.5°	151.4	153.6	155.8	157.9	146.3	120.8	95.2	69.7	44.3	40.6	36.9
105°	202.2	203.9	205.5	207.2	201.3	187.8	174.4	160.8	147.4	121.0	94.5
107.5°	256.1	257.4	258.6	259.9	261.7	263.8	266.0	268.0	270.2	250.8	231.4
110°	292.0	293.2	294.4	295.6	297.0	298.7	300.3	302.0	303.6	298.7	293.7



TEST NUMBER: P332063-935

CATALOG NUMBER: S123DIP-S1165D805U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	326.3	327.4	328.5	329.6	330.9	332.6	334.2	335.9	337.5	337.6	337.7
115°	377.2	378.1	379.0	379.9	381.0	382.4	383.7	385.0	386.4	387.9	389.3
117.5°	426.8	427.9	429.0	430.1	431.0	431.7	432.4	433.1	433.8	435.0	436.2
120°	457.7	459.1	460.4	461.8	462.7	463.1	463.6	464.0	464.4	465.6	466.8
122.5°	488.7	489.8	490.9	492.1	492.8	493.4	494.0	494.6	495.2	496.0	496.8
125°	531.6	532.8	534.0	535.2	536.1	536.7	537.3	537.9	538.5	538.8	539.1
127.5°	573.1	574.3	575.5	576.7	577.6	578.3	579.1	579.8	580.5	581.0	581.4
130°	598.9	600.1	601.3	602.5	603.4	604.0	604.6	605.2	605.8	606.4	607.0
132.5°	623.7	624.9	626.1	627.3	628.1	628.6	629.0	629.6	630.1	630.7	631.2
135°	661.2	662.1	663.1	663.9	664.7	665.3	665.9	666.5	667.1	667.5	668.0
137.5°	693.8	694.9	696.0	697.2	697.9	698.3	698.6	698.9	699.2	700.0	700.7
140°	715.1	716.0	716.9	717.8	718.4	718.9	719.4	719.8	720.2	720.8	721.4
142.5°	735.0	735.9	736.8	737.7	738.4	738.8	739.3	739.7	740.2	740.6	741.1
145°	763.0	764.1	765.1	766.2	766.8	767.2	767.4	767.8	768.0	768.4	768.6
147.5°	788.9	789.6	790.3	791.0	791.5	791.8	792.0	792.4	792.6	793.0	793.2
150°	804.9	805.3	805.7	806.2	806.6	806.8	807.2	807.4	807.8	808.0	808.3
152.5°	819.2	819.3	819.6	819.8	819.9	820.1	820.3	820.5	820.7	821.2	821.7
155°	839.1	838.8	838.5	838.2	838.1	838.3	838.4	838.5	838.7	839.5	840.2
157.5°	855.2	855.2	855.1	855.1	855.1	854.9	854.8	854.6	854.5	855.4	856.3
160°	864.8	864.7	864.5	864.4	864.2	864.1	863.9	863.8	863.6	864.5	865.4
162.5°	873.7	873.3	873.0	872.5	872.3	872.1	872.0	871.8	871.7	872.7	873.7
165°	884.7	884.2	883.8	883.4	883.0	883.0	882.8	882.6	882.4	883.6	884.8
167.5°	893.2	892.6	892.0	891.4	891.0	891.0	891.0	891.0	891.0	892.3	893.5
170°	898.0	897.4	896.8	896.2	896.0	896.0	896.0	896.0	896.0	897.2	898.3
172.5°	901.1	900.4	899.7	899.0	898.7	898.8	898.9	899.1	899.1	900.3	901.6
175°	905.3	904.6	903.8	903.0	902.8	902.8	903.0	903.2	903.4	904.4	905.4
177.5°	906.5	905.9	905.3	904.7	904.5	904.6	904.7	904.8	904.9	905.9	906.9
180°	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0



TEST NUMBER: P332063-935

CATALOG NUMBER: S123DIP-S1165D805U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1469.7	1470.2	1476.3	1480.6	1478.4	1481.1	1482.2
5°	1605.8	1630.1	1643.0	1652.4	1653.1	1653.8	1659.2
7.5°	1798.6	1824.7	1843.8	1872.8	1881.5	1891.3	1888.4
10°	1939.4	1977.9	2011.1	2028.7	2047.6	2075.4	2053.1
12.5°	2070.9	2139.2	2189.7	2217.1	2234.9	2240.5	2229.6
15°	2287.8	2377.1	2425.2	2423.9	2484.8	2511.2	2469.9
17.5°	2486.8	2569.2	2635.3	2669.1	2719.8	2731.1	2725.9
20°	2608.6	2698.6	2750.0	2808.2	2834.6	2858.3	2862.3
22.5°	2713.6	2794.4	2849.7	2898.0	2920.2	2931.4	2938.2
25°	2821.8	2885.4	2918.5	2935.4	2941.5	2940.1	2931.4
27.5°	2814.3	2819.2	2782.7	2746.8	2714.7	2678.6	2666.1
30°	2741.3	2684.3	2582.9	2525.4	2440.8	2373.8	2400.8
32.5°	2549.1	2435.9	2321.9	2196.2	2092.1	2062.5	2032.7
35°	2175.5	1976.6	1860.2	1724.8	1670.7	1616.6	1579.3
37.5°	1760.1	1606.2	1468.1	1379.6	1325.3	1291.1	1272.7
40°	1521.8	1383.1	1269.5	1197.7	1156.4	1117.8	1112.5
42.5°	1331.9	1202.9	1117.3	1060.2	1020.5	1004.2	992.3
45°	1090.8	1000.8	943.3	902.7	876.3	866.2	852.6
47.5°	923.3	859.6	816.5	788.8	769.0	761.4	760.3
50°	829.6	776.8	745.0	723.3	707.8	705.1	694.3
52.5°	759.2	713.5	688.7	669.8	658.6	651.0	647.7
55°	659.1	628.6	606.3	595.5	586.7	579.2	579.2
57.5°	576.7	551.2	536.5	527.3	524.5	519.3	515.9
60°	525.8	504.1	492.7	484.5	479.1	479.7	473.6
62.5°	476.0	461.9	450.9	442.8	436.4	436.4	436.9
65°	405.4	394.5	386.4	383.7	379.6	374.9	376.3
67.5°	343.5	333.3	327.0	322.4	321.0	318.5	322.4
70°	299.1	291.6	286.9	282.8	281.5	282.1	285.6
72.5°	258.5	253.2	250.1	248.2	245.2	245.4	247.6
75°	203.0	199.0	196.2	194.2	193.6	193.6	193.6
77.5°	149.1	148.2	147.0	144.0	144.1	144.9	145.1
80°	117.8	115.7	115.0	113.7	111.7	110.3	113.7
82.5°	88.0	85.9	85.2	85.0	81.9	81.6	84.5
85°	47.4	45.4	46.0	45.4	45.4	44.7	44.7
87.5°	20.4	20.0	19.5	20.1	19.6	19.1	20.3
90°	17.9	18.5	19.0	19.3	19.6	19.9	20.2
92.5°	20.1	21.1	21.6	21.8	22.0	22.1	22.4
95°	24.0	25.1	25.6	25.6	25.6	25.6	25.6
97.5°	25.2	26.4	27.1	27.3	27.5	27.6	27.7
100°	25.8	27.0	27.6	27.8	28.0	28.2	28.2
102.5°	33.1	29.4	27.7	28.0	28.2	28.5	28.8
105°	68.0	41.5	28.4	28.8	29.0	29.4	29.6
107.5°	212.0	192.5	172.8	152.9	132.9	113.0	93.0
110°	288.8	283.9	270.7	249.3	227.9	206.5	185.1



TEST NUMBER: P332063-935

CATALOG NUMBER: S123DIP-S1165D805U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	337.8	337.9	335.6	331.1	326.6	322.1	317.6
115°	390.9	392.4	393.4	394.0	394.6	395.2	395.8
117.5°	437.4	438.5	439.2	439.4	439.5	439.5	439.7
120°	468.0	469.2	469.8	469.8	469.8	469.8	469.8
122.5°	497.7	498.5	498.9	499.1	499.2	499.4	499.5
125°	539.4	539.7	540.0	540.3	540.6	540.9	541.2
127.5°	581.9	582.4	582.5	582.2	581.9	581.6	581.3
130°	607.6	608.2	608.4	608.0	607.8	607.4	607.2
132.5°	631.8	632.4	632.5	632.1	631.7	631.3	630.9
135°	668.4	668.8	668.8	668.4	668.0	667.5	667.1
137.5°	701.4	702.1	702.3	702.1	701.7	701.5	701.1
140°	722.0	722.6	722.8	722.5	722.2	721.9	721.6
142.5°	741.6	742.1	742.1	741.7	741.2	740.9	740.5
145°	769.0	769.2	769.4	769.4	769.4	769.4	769.4
147.5°	793.6	793.8	793.7	793.0	792.3	791.6	790.9
150°	808.7	808.9	808.9	808.4	808.0	807.5	807.1
152.5°	822.3	822.9	822.8	822.1	821.4	820.7	820.0
155°	840.9	841.7	841.6	840.8	839.8	839.0	838.0
157.5°	857.1	858.1	857.9	856.8	855.6	854.5	853.3
160°	866.3	867.2	867.1	866.1	865.0	864.0	863.0
162.5°	874.8	875.7	875.8	874.9	873.9	873.1	872.1
165°	886.1	887.3	887.3	886.3	885.2	884.2	883.1
167.5°	894.7	895.9	895.9	894.7	893.5	892.3	891.0
170°	899.5	900.7	900.7	899.5	898.3	897.2	896.0
172.5°	902.8	904.0	903.9	902.6	901.3	899.9	898.6
175°	906.5	907.5	907.4	906.3	905.1	903.9	902.7
177.5°	907.8	908.8	908.7	907.5	906.3	905.1	903.9
180°	906.0	906.0	906.0	906.0	906.0	906.0	906.0

(END OF REPORT)