

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: P332054-935

Luminaire Tested: **S123DIP-S1165D585U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332054-935  
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-S1165D585U935-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 585 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6233.0 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Direct

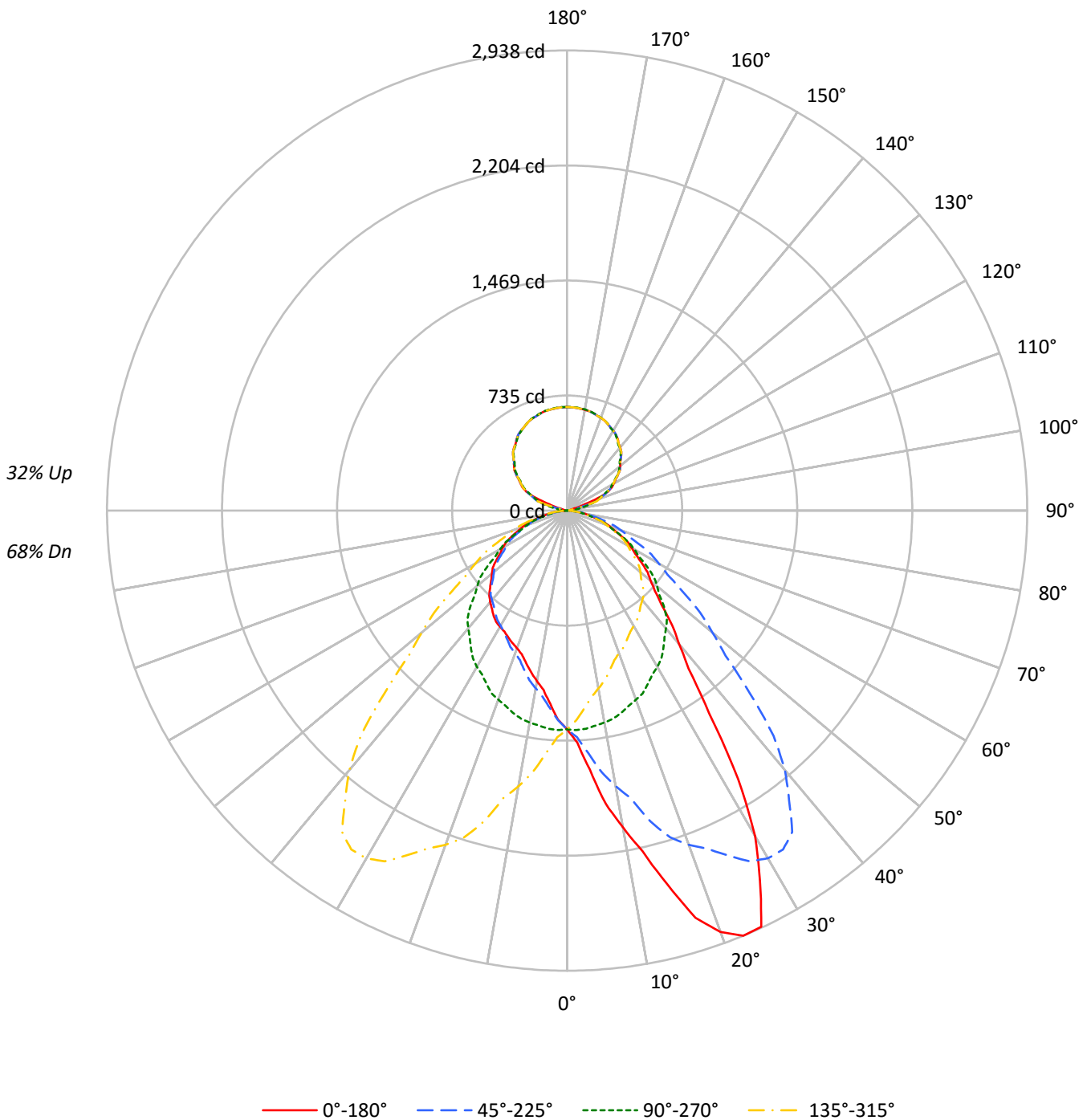
Input Watts (W): 55.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	68
1	102	98	94	90	96	92	89	86	82	80	77	73	71	69	65	63	62	58
2	93	86	80	75	88	81	76	71	73	68	65	65	61	59	57	55	53	49
3	85	76	68	63	80	72	65	60	64	59	55	57	53	50	51	48	45	42
4	78	67	59	53	74	64	57	51	57	52	47	51	47	43	46	42	39	36
5	72	60	52	46	68	57	50	44	52	45	41	46	41	38	41	37	34	32
6	66	54	46	40	63	52	44	39	47	40	36	42	37	33	38	34	30	28
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27	25
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	32	27	24	22
9	53	41	33	28	50	39	32	27	36	30	25	32	27	24	29	25	22	20
10	50	38	30	25	47	36	29	25	33	27	23	30	25	21	27	23	20	18

**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	2.2
10°-20°	441.2	7.1
20°-30°	740.4	11.9
30°-40°	838.4	13.5
40°-50°	751.8	12.1
50°-60°	606.7	9.7
60°-70°	422.8	6.8
70°-80°	222.2	3.6
80°-90°	56.2	0.9
90°-100°	24.0	0.4
100°-110°	114.5	1.8
110°-120°	275.1	4.4
120°-130°	350.3	5.6
130°-140°	374.3	6.0
140°-150°	350.0	5.6
150°-160°	282.3	4.5
160°-170°	182.2	2.9
170°-180°	62.8	1.0
0°-30°	1319.2	21.2
0°-40°	2157.5	34.6
0°-60°	3516.1	56.4
0°-90°	4217.3	67.7
90°-120°	413.7	6.6
90°-150°	1488.3	23.9
90°-180°	2016.0	32.3
0°-180°	6233.0	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°	15	0	15	0	15	9
95°	19	30	19	30	19	16
105°	22	146	22	146	22	49
115°	289	274	289	274	289	267
125°	395	387	395	387	395	353
135°	487	482	487	482	487	375
145°	561	556	561	556	561	350
155°	611	612	611	612	611	282
165°	644	646	644	646	644	182
175°	658	661	658	661	658	63
180°	661	661	661	661	661	



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CATALOG NUMBER: S123DIP-S1165D585U935-4F0-1E-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°	19.2	18.1	18.6	19.0	18.5	18.9	19.4	19.9	20.3	20.8	21.0
90°	14.7	14.6	14.3	14.1	13.9	13.5	13.1	12.7	12.2	11.8	10.3
92.5°	16.3	16.2	16.0	15.9	15.8	15.3	14.6	13.9	13.3	12.6	11.5
95°	18.7	18.7	18.7	18.7	18.7	18.3	17.5	16.8	16.0	15.2	14.0
97.5°	20.2	20.1	20.0	19.9	19.8	19.3	18.4	17.6	16.7	15.8	23.7
100°	20.7	20.5	20.4	20.3	20.1	19.7	18.9	17.9	17.0	16.2	33.2
102.5°	21.0	20.8	20.7	20.4	20.2	21.5	24.2	26.9	29.6	32.3	50.9
105°	21.6	21.4	21.2	20.9	20.8	30.3	49.6	68.9	88.3	107.5	117.4
107.5°	67.8	82.4	96.9	111.5	126.1	140.4	154.6	168.8	183.0	197.1	195.5
110°	135.0	150.7	166.3	181.8	197.4	207.1	210.7	214.3	217.8	221.4	220.2



TEST NUMBER: P332054-935

CATALOG NUMBER: S123DIP-S1165D585U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	231.7	235.0	238.2	241.6	244.9	246.5	246.4	246.3	246.3	246.2	245.0
115°	288.8	288.3	287.9	287.4	287.0	286.3	285.2	284.0	283.0	281.9	280.9
117.5°	320.8	320.7	320.6	320.6	320.5	319.9	319.1	318.2	317.4	316.4	316.0
120°	342.8	342.8	342.8	342.8	342.8	342.3	341.5	340.6	339.8	338.8	338.5
122.5°	364.4	364.3	364.2	364.1	364.0	363.7	363.1	362.5	361.9	361.3	360.8
125°	394.9	394.6	394.4	394.2	394.0	393.7	393.5	393.3	393.0	392.9	392.4
127.5°	424.1	424.3	424.6	424.7	425.0	424.9	424.6	424.2	423.9	423.5	423.0
130°	443.0	443.2	443.4	443.6	443.8	443.7	443.2	442.8	442.4	442.0	441.5
132.5°	460.2	460.5	460.8	461.2	461.5	461.4	461.0	460.5	460.1	459.7	459.3
135°	486.6	487.0	487.3	487.7	487.9	487.9	487.7	487.3	487.0	486.6	486.2
137.5°	511.5	511.7	512.0	512.1	512.4	512.2	511.7	511.2	510.7	510.1	509.9
140°	526.4	526.7	526.8	527.1	527.3	527.2	526.8	526.3	525.9	525.5	525.1
142.5°	540.2	540.4	540.8	541.1	541.4	541.4	541.1	540.7	540.4	540.0	539.7
145°	561.3	561.3	561.3	561.3	561.3	561.2	560.9	560.8	560.5	560.3	560.1
147.5°	577.0	577.6	578.0	578.5	579.0	579.2	578.9	578.8	578.5	578.3	578.1
150°	588.8	589.1	589.4	589.8	590.1	590.1	590.0	589.7	589.5	589.3	589.1
152.5°	598.2	598.7	599.3	599.8	600.2	600.3	599.9	599.5	599.1	598.7	598.6
155°	611.4	612.1	612.7	613.4	614.0	614.1	613.5	612.9	612.4	611.9	611.7
157.5°	622.5	623.4	624.2	625.0	625.9	626.0	625.3	624.7	624.1	623.4	623.5
160°	629.6	630.3	631.1	631.9	632.6	632.7	632.0	631.4	630.7	630.1	630.2
162.5°	636.3	636.9	637.6	638.3	638.9	638.9	638.2	637.4	636.7	635.9	636.0
165°	644.3	645.1	645.8	646.6	647.4	647.3	646.4	645.6	644.7	643.8	643.9
167.5°	650.1	651.0	651.9	652.7	653.6	653.6	652.7	651.9	651.0	650.1	650.1
170°	653.6	654.5	655.4	656.3	657.1	657.1	656.3	655.4	654.5	653.6	653.6
172.5°	655.6	656.5	657.5	658.5	659.4	659.4	658.6	657.7	656.9	656.0	655.9
175°	658.5	659.4	660.3	661.2	662.0	662.1	661.3	660.6	659.8	659.0	658.9
177.5°	659.4	660.3	661.2	662.0	662.9	663.0	662.3	661.6	660.9	660.2	660.1
180°	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0



TEST NUMBER: P332054-935

CATALOG NUMBER: S123DIP-S1165D585U935-4F0-1E-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°	21.8	22.0	20.1	17.7	16.4	14.6	14.4	13.1	12.2	12.5	12.1
90°	9.0	7.5	6.1	4.8	3.8	2.7	1.5	0.5	1.5	2.7	3.8
92.5°	10.4	9.4	8.3	7.9	8.2	8.5	8.9	9.1	8.9	8.5	8.2
95°	12.8	11.6	10.4	12.1	16.5	21.0	25.5	30.0	25.5	21.0	16.5
97.5°	31.5	39.3	47.3	52.2	54.2	56.2	58.2	60.2	58.2	56.2	54.2
100°	50.3	67.2	84.3	91.7	89.5	87.4	85.2	83.0	85.2	87.4	89.5
102.5°	69.5	88.1	106.7	115.2	113.7	112.1	110.5	108.9	110.5	112.1	113.7
105°	127.2	137.0	146.8	151.1	149.9	148.8	147.6	146.4	147.6	148.8	149.9
107.5°	194.0	192.4	190.9	189.7	188.7	187.8	186.8	185.8	186.8	187.8	188.7
110°	219.0	217.8	216.7	215.6	214.7	213.9	213.0	212.2	213.0	213.9	214.7





TEST NUMBER: P332054-935

CATALOG NUMBER: S123DIP-S1165D585U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	243.8	242.6	241.4	240.4	239.6	238.8	238.1	237.3	238.1	238.8	239.6
115°	279.9	279.0	277.9	277.2	276.5	275.8	275.2	274.5	275.2	275.8	276.5
117.5°	315.5	315.0	314.4	313.7	313.0	312.2	311.3	310.6	311.3	312.2	313.0
120°	338.2	337.9	337.5	336.9	335.9	334.9	333.9	332.9	333.9	334.9	335.9
122.5°	360.4	360.0	359.6	359.0	358.2	357.3	356.5	355.8	356.5	357.3	358.2
125°	392.0	391.6	391.2	390.5	389.6	388.7	387.9	386.9	387.9	388.7	389.6
127.5°	422.5	421.9	421.4	420.7	419.8	419.0	418.1	417.2	418.1	419.0	419.8
130°	441.1	440.7	440.2	439.5	438.7	437.8	437.0	436.1	437.0	437.8	438.7
132.5°	458.9	458.6	458.2	457.6	456.8	455.9	455.0	454.2	455.0	455.9	456.8
135°	485.8	485.3	484.9	484.4	483.7	483.0	482.4	481.7	482.4	483.0	483.7
137.5°	509.6	509.4	509.2	508.6	507.8	507.0	506.2	505.3	506.2	507.0	507.8
140°	524.8	524.4	524.2	523.7	523.0	522.4	521.7	521.0	521.7	522.4	523.0
142.5°	539.3	539.0	538.6	538.2	537.5	536.9	536.2	535.5	536.2	536.9	537.5
145°	559.9	559.6	559.5	559.0	558.2	557.4	556.6	555.9	556.6	557.4	558.2
147.5°	577.8	577.6	577.4	577.0	576.5	576.1	575.6	575.1	575.6	576.1	576.5
150°	588.8	588.7	588.4	588.1	587.8	587.5	587.2	586.9	587.2	587.5	587.8
152.5°	598.5	598.3	598.2	598.1	597.9	597.7	597.6	597.4	597.6	597.7	597.9
155°	611.7	611.6	611.5	611.5	611.7	611.9	612.2	612.3	612.2	611.9	611.7
157.5°	623.6	623.7	623.8	623.9	623.9	623.9	624.0	624.0	624.0	623.9	623.9
160°	630.3	630.3	630.5	630.6	630.7	630.9	630.9	631.0	630.9	630.9	630.7
162.5°	636.2	636.3	636.4	636.5	636.9	637.1	637.4	637.7	637.4	637.1	636.9
165°	644.0	644.1	644.2	644.5	644.8	645.1	645.4	645.8	645.4	645.1	644.8
167.5°	650.1	650.1	650.1	650.3	650.7	651.2	651.6	652.0	651.6	651.2	650.7
170°	653.6	653.6	653.6	653.8	654.3	654.7	655.1	655.6	655.1	654.7	654.3
172.5°	655.8	655.7	655.7	655.8	656.3	656.9	657.5	658.0	657.5	656.9	656.3
175°	658.8	658.7	658.6	658.8	659.4	659.9	660.5	661.0	660.5	659.9	659.4
177.5°	660.0	660.0	659.9	660.0	660.5	660.9	661.3	661.8	661.3	660.9	660.5
180°	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0



TEST NUMBER: P332054-935

CATALOG NUMBER: S123DIP-S1165D585U935-4F0-1E-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°	11.8	12.6	12.3	13.2	12.9	13.7	13.8	12.8	12.9	14.6	12.5
90°	4.8	6.1	7.5	9.0	10.3	11.8	12.2	12.7	13.1	13.5	13.9
92.5°	7.9	8.3	9.4	10.4	11.5	12.6	13.3	13.9	14.6	15.3	15.8
95°	12.1	10.4	11.6	12.8	14.0	15.2	16.0	16.8	17.5	18.3	18.7
97.5°	52.2	47.3	39.3	31.5	23.7	15.8	16.7	17.6	18.4	19.3	19.8
100°	91.7	84.3	67.2	50.3	33.2	16.2	17.0	17.9	18.9	19.7	20.1
102.5°	115.2	106.7	88.1	69.5	50.9	32.3	29.6	26.9	24.2	21.5	20.2
105°	151.1	146.8	137.0	127.2	117.4	107.5	88.3	68.9	49.6	30.3	20.8
107.5°	189.7	190.9	192.4	194.0	195.5	197.1	183.0	168.8	154.6	140.4	126.1
110°	215.6	216.7	217.8	219.0	220.2	221.4	217.8	214.3	210.7	207.1	197.4



TEST NUMBER: P332054-935

CATALOG NUMBER: S123DIP-S1165D585U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	240.4	241.4	242.6	243.8	245.0	246.2	246.3	246.3	246.4	246.5	244.9
115°	277.2	277.9	279.0	279.9	280.9	281.9	283.0	284.0	285.2	286.3	287.0
117.5°	313.7	314.4	315.0	315.5	316.0	316.4	317.4	318.2	319.1	319.9	320.5
120°	336.9	337.5	337.9	338.2	338.5	338.8	339.8	340.6	341.5	342.3	342.8
122.5°	359.0	359.6	360.0	360.4	360.8	361.3	361.9	362.5	363.1	363.7	364.0
125°	390.5	391.2	391.6	392.0	392.4	392.9	393.0	393.3	393.5	393.7	394.0
127.5°	420.7	421.4	421.9	422.5	423.0	423.5	423.9	424.2	424.6	424.9	425.0
130°	439.5	440.2	440.7	441.1	441.5	442.0	442.4	442.8	443.2	443.7	443.8
132.5°	457.6	458.2	458.6	458.9	459.3	459.7	460.1	460.5	461.0	461.4	461.5
135°	484.4	484.9	485.3	485.8	486.2	486.6	487.0	487.3	487.7	487.9	487.9
137.5°	508.6	509.2	509.4	509.6	509.9	510.1	510.7	511.2	511.7	512.2	512.4
140°	523.7	524.2	524.4	524.8	525.1	525.5	525.9	526.3	526.8	527.2	527.3
142.5°	538.2	538.6	539.0	539.3	539.7	540.0	540.4	540.7	541.1	541.4	541.4
145°	559.0	559.5	559.6	559.9	560.1	560.3	560.5	560.8	560.9	561.2	561.3
147.5°	577.0	577.4	577.6	577.8	578.1	578.3	578.5	578.8	578.9	579.2	579.0
150°	588.1	588.4	588.7	588.8	589.1	589.3	589.5	589.7	590.0	590.1	590.1
152.5°	598.1	598.2	598.3	598.5	598.6	598.7	599.1	599.5	599.9	600.3	600.2
155°	611.5	611.5	611.6	611.7	611.7	611.9	612.4	612.9	613.5	614.1	614.0
157.5°	623.9	623.8	623.7	623.6	623.5	623.4	624.1	624.7	625.3	626.0	625.9
160°	630.6	630.5	630.3	630.3	630.2	630.1	630.7	631.4	632.0	632.7	632.6
162.5°	636.5	636.4	636.3	636.2	636.0	635.9	636.7	637.4	638.2	638.9	638.9
165°	644.5	644.2	644.1	644.0	643.9	643.8	644.7	645.6	646.4	647.3	647.4
167.5°	650.3	650.1	650.1	650.1	650.1	650.1	651.0	651.9	652.7	653.6	653.6
170°	653.8	653.6	653.6	653.6	653.6	653.6	654.5	655.4	656.3	657.1	657.1
172.5°	655.8	655.7	655.7	655.8	655.9	656.0	656.9	657.7	658.6	659.4	659.4
175°	658.8	658.6	658.7	658.8	658.9	659.0	659.8	660.6	661.3	662.1	662.0
177.5°	660.0	659.9	660.0	660.0	660.1	660.2	660.9	661.6	662.3	663.0	662.9
180°	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0



TEST NUMBER: P332054-935

CATALOG NUMBER: S123DIP-S1165D585U935-4F0-1E-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°	12.6	12.6	12.1	11.6	12.1	12.6	12.6	12.5	14.6	12.9	12.8
90°	14.1	14.3	14.6	14.7	14.6	14.3	14.1	13.9	13.5	13.1	12.7
92.5°	15.9	16.0	16.2	16.3	16.2	16.0	15.9	15.8	15.3	14.6	13.9
95°	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.3	17.5	16.8
97.5°	19.9	20.0	20.1	20.2	20.1	20.0	19.9	19.8	19.3	18.4	17.6
100°	20.3	20.4	20.5	20.7	20.5	20.4	20.3	20.1	19.7	18.9	17.9
102.5°	20.4	20.7	20.8	21.0	20.8	20.7	20.4	20.2	21.5	24.2	26.9
105°	20.9	21.2	21.4	21.6	21.4	21.2	20.9	20.8	30.3	49.6	68.9
107.5°	111.5	96.9	82.4	67.8	82.4	96.9	111.5	126.1	140.4	154.6	168.8
110°	181.8	166.3	150.7	135.0	150.7	166.3	181.8	197.4	207.1	210.7	214.3



TEST NUMBER: P332054-935

CATALOG NUMBER: S123DIP-S1165D585U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	241.6	238.2	235.0	231.7	235.0	238.2	241.6	244.9	246.5	246.4	246.3
115°	287.4	287.9	288.3	288.8	288.3	287.9	287.4	287.0	286.3	285.2	284.0
117.5°	320.6	320.6	320.7	320.8	320.7	320.6	320.6	320.5	319.9	319.1	318.2
120°	342.8	342.8	342.8	342.8	342.8	342.8	342.8	342.8	342.3	341.5	340.6
122.5°	364.1	364.2	364.3	364.4	364.3	364.2	364.1	364.0	363.7	363.1	362.5
125°	394.2	394.4	394.6	394.9	394.6	394.4	394.2	394.0	393.7	393.5	393.3
127.5°	424.7	424.6	424.3	424.1	424.3	424.6	424.7	425.0	424.9	424.6	424.2
130°	443.6	443.4	443.2	443.0	443.2	443.4	443.6	443.8	443.7	443.2	442.8
132.5°	461.2	460.8	460.5	460.2	460.5	460.8	461.2	461.5	461.4	461.0	460.5
135°	487.7	487.3	487.0	486.6	487.0	487.3	487.7	487.9	487.9	487.7	487.3
137.5°	512.1	512.0	511.7	511.5	511.7	512.0	512.1	512.4	512.2	511.7	511.2
140°	527.1	526.8	526.7	526.4	526.7	526.8	527.1	527.3	527.2	526.8	526.3
142.5°	541.1	540.8	540.4	540.2	540.4	540.8	541.1	541.4	541.4	541.1	540.7
145°	561.3	561.3	561.3	561.3	561.3	561.3	561.3	561.3	561.2	560.9	560.8
147.5°	578.5	578.0	577.6	577.0	577.6	578.0	578.5	579.0	579.2	578.9	578.8
150°	589.8	589.4	589.1	588.8	589.1	589.4	589.8	590.1	590.1	590.0	589.7
152.5°	599.8	599.3	598.7	598.2	598.7	599.3	599.8	600.2	600.3	599.9	599.5
155°	613.4	612.7	612.1	611.4	612.1	612.7	613.4	614.0	614.1	613.5	612.9
157.5°	625.0	624.2	623.4	622.5	623.4	624.2	625.0	625.9	626.0	625.3	624.7
160°	631.9	631.1	630.3	629.6	630.3	631.1	631.9	632.6	632.7	632.0	631.4
162.5°	638.3	637.6	636.9	636.3	636.9	637.6	638.3	638.9	638.9	638.2	637.4
165°	646.6	645.8	645.1	644.3	645.1	645.8	646.6	647.4	647.3	646.4	645.6
167.5°	652.7	651.9	651.0	650.1	651.0	651.9	652.7	653.6	653.6	652.7	651.9
170°	656.3	655.4	654.5	653.6	654.5	655.4	656.3	657.1	657.1	656.3	655.4
172.5°	658.5	657.5	656.5	655.6	656.5	657.5	658.5	659.4	659.4	658.6	657.7
175°	661.2	660.3	659.4	658.5	659.4	660.3	661.2	662.0	662.1	661.3	660.6
177.5°	662.0	661.2	660.3	659.4	660.3	661.2	662.0	662.9	663.0	662.3	661.6
180°	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0



TEST NUMBER: P332054-935

CATALOG NUMBER: S123DIP-S1165D585U935-4F0-1E-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°	13.8	13.7	12.9	13.2	12.3	12.6	11.8	12.1	12.5	12.2	13.1
90°	12.2	11.8	10.3	9.0	7.5	6.1	4.8	3.8	2.7	1.5	0.5
92.5°	13.3	12.6	11.5	10.4	9.4	8.3	7.9	8.2	8.5	8.9	9.1
95°	16.0	15.2	14.0	12.8	11.6	10.4	12.1	16.5	21.0	25.5	30.0
97.5°	16.7	15.8	23.7	31.5	39.3	47.3	52.2	54.2	56.2	58.2	60.2
100°	17.0	16.2	33.2	50.3	67.2	84.3	91.7	89.5	87.4	85.2	83.0
102.5°	29.6	32.3	50.9	69.5	88.1	106.7	115.2	113.7	112.1	110.5	108.9
105°	88.3	107.5	117.4	127.2	137.0	146.8	151.1	149.9	148.8	147.6	146.4
107.5°	183.0	197.1	195.5	194.0	192.4	190.9	189.7	188.7	187.8	186.8	185.8
110°	217.8	221.4	220.2	219.0	217.8	216.7	215.6	214.7	213.9	213.0	212.2



TEST NUMBER: P332054-935

CATALOG NUMBER: S123DIP-S1165D585U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	246.3	246.2	245.0	243.8	242.6	241.4	240.4	239.6	238.8	238.1	237.3
115°	283.0	281.9	280.9	279.9	279.0	277.9	277.2	276.5	275.8	275.2	274.5
117.5°	317.4	316.4	316.0	315.5	315.0	314.4	313.7	313.0	312.2	311.3	310.6
120°	339.8	338.8	338.5	338.2	337.9	337.5	336.9	335.9	334.9	333.9	332.9
122.5°	361.9	361.3	360.8	360.4	360.0	359.6	359.0	358.2	357.3	356.5	355.8
125°	393.0	392.9	392.4	392.0	391.6	391.2	390.5	389.6	388.7	387.9	386.9
127.5°	423.9	423.5	423.0	422.5	421.9	421.4	420.7	419.8	419.0	418.1	417.2
130°	442.4	442.0	441.5	441.1	440.7	440.2	439.5	438.7	437.8	437.0	436.1
132.5°	460.1	459.7	459.3	458.9	458.6	458.2	457.6	456.8	455.9	455.0	454.2
135°	487.0	486.6	486.2	485.8	485.3	484.9	484.4	483.7	483.0	482.4	481.7
137.5°	510.7	510.1	509.9	509.6	509.4	509.2	508.6	507.8	507.0	506.2	505.3
140°	525.9	525.5	525.1	524.8	524.4	524.2	523.7	523.0	522.4	521.7	521.0
142.5°	540.4	540.0	539.7	539.3	539.0	538.6	538.2	537.5	536.9	536.2	535.5
145°	560.5	560.3	560.1	559.9	559.6	559.5	559.0	558.2	557.4	556.6	555.9
147.5°	578.5	578.3	578.1	577.8	577.6	577.4	577.0	576.5	576.1	575.6	575.1
150°	589.5	589.3	589.1	588.8	588.7	588.4	588.1	587.8	587.5	587.2	586.9
152.5°	599.1	598.7	598.6	598.5	598.3	598.2	598.1	597.9	597.7	597.6	597.4
155°	612.4	611.9	611.7	611.7	611.6	611.5	611.5	611.7	611.9	612.2	612.3
157.5°	624.1	623.4	623.5	623.6	623.7	623.8	623.9	623.9	623.9	624.0	624.0
160°	630.7	630.1	630.2	630.3	630.3	630.5	630.6	630.7	630.9	630.9	631.0
162.5°	636.7	635.9	636.0	636.2	636.3	636.4	636.5	636.9	637.1	637.4	637.7
165°	644.7	643.8	643.9	644.0	644.1	644.2	644.5	644.8	645.1	645.4	645.8
167.5°	651.0	650.1	650.1	650.1	650.1	650.1	650.3	650.7	651.2	651.6	652.0
170°	654.5	653.6	653.6	653.6	653.6	653.6	653.8	654.3	654.7	655.1	655.6
172.5°	656.9	656.0	655.9	655.8	655.7	655.7	655.8	656.3	656.9	657.5	658.0
175°	659.8	659.0	658.9	658.8	658.7	658.6	658.8	659.4	659.9	660.5	661.0
177.5°	660.9	660.2	660.1	660.0	660.0	659.9	660.0	660.5	660.9	661.3	661.8
180°	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0



TEST NUMBER: P332054-935

CATALOG NUMBER: S123DIP-S1165D585U935-4F0-1E-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°	14.4	14.6	16.4	17.7	20.1	22.0	21.8	21.0	20.8	20.3	19.9
90°	1.5	2.7	3.8	4.8	6.1	7.5	9.0	10.3	11.8	12.2	12.7
92.5°	8.9	8.5	8.2	7.9	8.3	9.4	10.4	11.5	12.6	13.3	13.9
95°	25.5	21.0	16.5	12.1	10.4	11.6	12.8	14.0	15.2	16.0	16.8
97.5°	58.2	56.2	54.2	52.2	47.3	39.3	31.5	23.7	15.8	16.7	17.6
100°	85.2	87.4	89.5	91.7	84.3	67.2	50.3	33.2	16.2	17.0	17.9
102.5°	110.5	112.1	113.7	115.2	106.7	88.1	69.5	50.9	32.3	29.6	26.9
105°	147.6	148.8	149.9	151.1	146.8	137.0	127.2	117.4	107.5	88.3	68.9
107.5°	186.8	187.8	188.7	189.7	190.9	192.4	194.0	195.5	197.1	183.0	168.8
110°	213.0	213.9	214.7	215.6	216.7	217.8	219.0	220.2	221.4	217.8	214.3





TEST NUMBER: P332054-935

CATALOG NUMBER: S123DIP-S1165D585U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	238.1	238.8	239.6	240.4	241.4	242.6	243.8	245.0	246.2	246.3	246.3
115°	275.2	275.8	276.5	277.2	277.9	279.0	279.9	280.9	281.9	283.0	284.0
117.5°	311.3	312.2	313.0	313.7	314.4	315.0	315.5	316.0	316.4	317.4	318.2
120°	333.9	334.9	335.9	336.9	337.5	337.9	338.2	338.5	338.8	339.8	340.6
122.5°	356.5	357.3	358.2	359.0	359.6	360.0	360.4	360.8	361.3	361.9	362.5
125°	387.9	388.7	389.6	390.5	391.2	391.6	392.0	392.4	392.9	393.0	393.3
127.5°	418.1	419.0	419.8	420.7	421.4	421.9	422.5	423.0	423.5	423.9	424.2
130°	437.0	437.8	438.7	439.5	440.2	440.7	441.1	441.5	442.0	442.4	442.8
132.5°	455.0	455.9	456.8	457.6	458.2	458.6	458.9	459.3	459.7	460.1	460.5
135°	482.4	483.0	483.7	484.4	484.9	485.3	485.8	486.2	486.6	487.0	487.3
137.5°	506.2	507.0	507.8	508.6	509.2	509.4	509.6	509.9	510.1	510.7	511.2
140°	521.7	522.4	523.0	523.7	524.2	524.4	524.8	525.1	525.5	525.9	526.3
142.5°	536.2	536.9	537.5	538.2	538.6	539.0	539.3	539.7	540.0	540.4	540.7
145°	556.6	557.4	558.2	559.0	559.5	559.6	559.9	560.1	560.3	560.5	560.8
147.5°	575.6	576.1	576.5	577.0	577.4	577.6	577.8	578.1	578.3	578.5	578.8
150°	587.2	587.5	587.8	588.1	588.4	588.7	588.8	589.1	589.3	589.5	589.7
152.5°	597.6	597.7	597.9	598.1	598.2	598.3	598.5	598.6	598.7	599.1	599.5
155°	612.2	611.9	611.7	611.5	611.5	611.6	611.7	611.7	611.9	612.4	612.9
157.5°	624.0	623.9	623.9	623.9	623.8	623.7	623.6	623.5	623.4	624.1	624.7
160°	630.9	630.9	630.7	630.6	630.5	630.3	630.3	630.2	630.1	630.7	631.4
162.5°	637.4	637.1	636.9	636.5	636.4	636.3	636.2	636.0	635.9	636.7	637.4
165°	645.4	645.1	644.8	644.5	644.2	644.1	644.0	643.9	643.8	644.7	645.6
167.5°	651.6	651.2	650.7	650.3	650.1	650.1	650.1	650.1	650.1	651.0	651.9
170°	655.1	654.7	654.3	653.8	653.6	653.6	653.6	653.6	653.6	654.5	655.4
172.5°	657.5	656.9	656.3	655.8	655.7	655.7	655.8	655.9	656.0	656.9	657.7
175°	660.5	659.9	659.4	658.8	658.6	658.7	658.8	658.9	659.0	659.8	660.6
177.5°	661.3	660.9	660.5	660.0	659.9	660.0	660.0	660.1	660.2	660.9	661.6
180°	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0



TEST NUMBER: P332054-935

CATALOG NUMBER: S123DIP-S1165D585U935-4F0-1E-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°	19.4	18.9	18.5	19.0	18.6	18.1	19.2
90°	13.1	13.5	13.9	14.1	14.3	14.6	14.7
92.5°	14.6	15.3	15.8	15.9	16.0	16.2	16.3
95°	17.5	18.3	18.7	18.7	18.7	18.7	18.7
97.5°	18.4	19.3	19.8	19.9	20.0	20.1	20.2
100°	18.9	19.7	20.1	20.3	20.4	20.5	20.7
102.5°	24.2	21.5	20.2	20.4	20.7	20.8	21.0
105°	49.6	30.3	20.8	20.9	21.2	21.4	21.6
107.5°	154.6	140.4	126.1	111.5	96.9	82.4	67.8
110°	210.7	207.1	197.4	181.8	166.3	150.7	135.0



TEST NUMBER: P332054-935

CATALOG NUMBER: S123DIP-S1165D585U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	246.4	246.5	244.9	241.6	238.2	235.0	231.7
115°	285.2	286.3	287.0	287.4	287.9	288.3	288.8
117.5°	319.1	319.9	320.5	320.6	320.6	320.7	320.8
120°	341.5	342.3	342.8	342.8	342.8	342.8	342.8
122.5°	363.1	363.7	364.0	364.1	364.2	364.3	364.4
125°	393.5	393.7	394.0	394.2	394.4	394.6	394.9
127.5°	424.6	424.9	425.0	424.7	424.6	424.3	424.1
130°	443.2	443.7	443.8	443.6	443.4	443.2	443.0
132.5°	461.0	461.4	461.5	461.2	460.8	460.5	460.2
135°	487.7	487.9	487.9	487.7	487.3	487.0	486.6
137.5°	511.7	512.2	512.4	512.1	512.0	511.7	511.5
140°	526.8	527.2	527.3	527.1	526.8	526.7	526.4
142.5°	541.1	541.4	541.4	541.1	540.8	540.4	540.2
145°	560.9	561.2	561.3	561.3	561.3	561.3	561.3
147.5°	578.9	579.2	579.0	578.5	578.0	577.6	577.0
150°	590.0	590.1	590.1	589.8	589.4	589.1	588.8
152.5°	599.9	600.3	600.2	599.8	599.3	598.7	598.2
155°	613.5	614.1	614.0	613.4	612.7	612.1	611.4
157.5°	625.3	626.0	625.9	625.0	624.2	623.4	622.5
160°	632.0	632.7	632.6	631.9	631.1	630.3	629.6
162.5°	638.2	638.9	638.9	638.3	637.6	636.9	636.3
165°	646.4	647.3	647.4	646.6	645.8	645.1	644.3
167.5°	652.7	653.6	653.6	652.7	651.9	651.0	650.1
170°	656.3	657.1	657.1	656.3	655.4	654.5	653.6
172.5°	658.6	659.4	659.4	658.5	657.5	656.5	655.6
175°	661.3	662.1	662.0	661.2	660.3	659.4	658.5
177.5°	662.3	663.0	662.9	662.0	661.2	660.3	659.4
180°	661.0	661.0	661.0	661.0	661.0	661.0	661.0

(END OF REPORT)