

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: P332217-930

Luminaire Tested: **S123DIW-S1165D755U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332217-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIW-S1165D755U930-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 755 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6128.3 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Direct

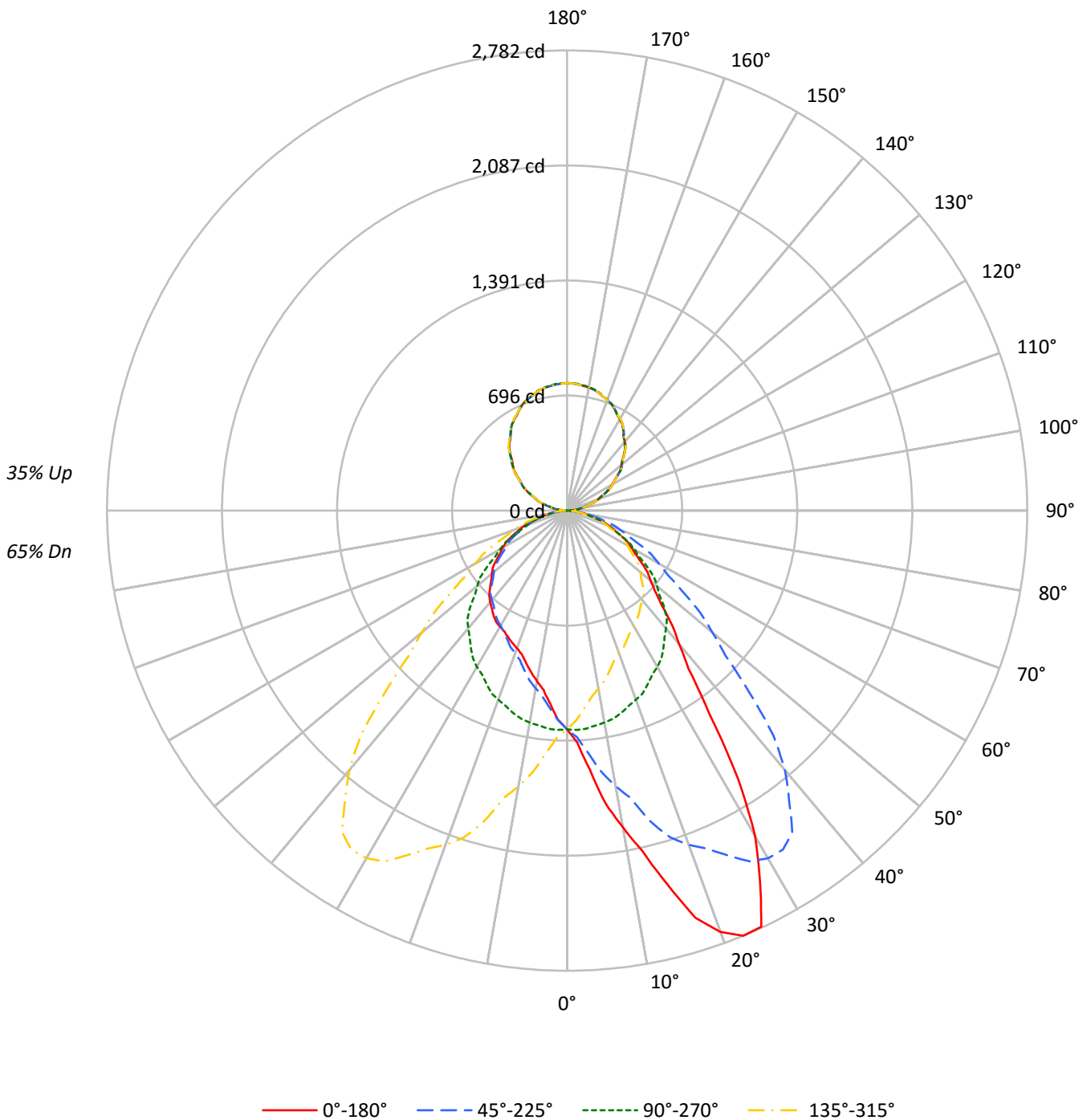
Input Watts (W): 59.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332217-930

CATALOG NUMBER: S123DIW-S1165D755U930-4F0-1E-UDD-A1

### Luminous Intensity Polar Plot





TEST NUMBER: P332217-930

CATALOG NUMBER: S123DIW-S1165D755U930-4F0-1E-UDD-A1

**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	104	104	104	104	92	92	92	80	80	80	70	70	70	65
1	102	97	93	90	95	92	88	85	81	79	76	71	70	68	63	61	60	56
2	93	85	79	74	87	81	75	71	71	67	64	63	60	57	55	53	51	47
3	85	75	68	62	80	71	65	59	63	58	54	56	52	49	49	46	44	40
4	78	67	59	53	73	63	56	51	57	51	46	50	46	42	44	41	38	35
5	72	60	52	46	67	57	49	44	51	45	40	45	40	37	40	36	33	30
6	66	54	46	40	62	51	44	38	46	40	35	41	36	32	36	32	29	27
7	61	49	41	35	57	46	39	34	42	36	31	37	32	29	33	29	26	24
8	57	44	36	31	53	42	35	30	38	32	28	34	29	26	31	27	23	21
9	53	41	33	28	50	39	32	27	35	29	25	31	27	23	28	24	21	19
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	26	22	19	17

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	14235	14235	14235	14235
5°	16977	14296	12670	14296
10°	21249	14224	11444	14224
15°	26063	14110	10653	14110
20°	31047	13931	10143	13931
25°	32967	13713	10030	13713
30°	28256	13554	10082	13554
35°	19651	13328	10188	13328
40°	14802	13065	10156	13065
45°	12291	12670	10027	12670
50°	11010	11868	9937	11868
55°	10293	11003	9813	11003
60°	9655	10097	9711	10097
65°	9075	9205	9401	9205
70°	8510	8189	8954	8189
75°	7623	7170	8210	7170
80°	6670	5876	7073	5876
85°	5224	4273	4755	4273



TEST NUMBER: P332217-930

CATALOG NUMBER: S123DIW-S1165D755U930-4F0-1E-UDD-A1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.3	2.1
10°-20°	417.7	6.8
20°-30°	701.1	11.4
30°-40°	793.9	13.0
40°-50°	711.9	11.6
50°-60°	574.5	9.4
60°-70°	400.3	6.5
70°-80°	210.4	3.4
80°-90°	53.7	0.9
90°-100°	50.2	0.8
100°-110°	150.2	2.5
110°-120°	255.5	4.2
120°-130°	336.1	5.5
130°-140°	377.7	6.2
140°-150°	371.3	6.1
150°-160°	312.6	5.1
160°-170°	208.1	3.4
170°-180°	72.9	1.2
0°-30°	1249.1	20.4
0°-40°	2043.0	33.3
0°-60°	3329.4	54.3
0°-90°	3993.9	65.2
90°-120°	455.9	7.4
90°-150°	1540.9	25.1
90°-180°	2134.0	34.8
0°-180°	6128.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1322	1322	1322	1322	1322	
5°	1571	1323	1173	1323	1571	163
15°	2339	1266	956	1266	2339	675
25°	2776	1155	844	1155	2776	1217
35°	1496	1014	775	1014	1496	972
45°	807	832	659	832	807	639
55°	548	586	523	586	548	492
65°	356	361	369	361	356	355
75°	183	172	197	172	183	196
85°	42	35	38	35	42	50
90°	18	1	18	1	18	11
95°	47	36	47	36	47	48
105°	144	136	144	136	144	153
115°	258	257	258	257	258	255
125°	372	376	372	376	372	333
135°	488	488	488	488	488	375
145°	592	592	592	592	592	370
155°	677	678	677	678	677	312
165°	736	739	736	739	736	208
175°	766	768	766	768	766	73
180°	770	770	770	770	770	



TEST NUMBER: P332217-930

CATALOG NUMBER: S123DIW-S1165D755U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5
2.5°	1403.5	1402.5	1400.0	1402.0	1397.9	1392.2	1391.7	1386.6	1371.7	1370.7	1366.6
5°	1571.2	1566.0	1565.4	1564.7	1555.8	1543.6	1520.5	1518.6	1487.8	1472.4	1453.9
7.5°	1788.2	1790.9	1781.6	1773.4	1746.0	1727.9	1703.2	1671.5	1633.7	1595.4	1569.9
10°	1944.1	1965.2	1938.9	1921.0	1904.4	1872.9	1836.5	1790.9	1745.4	1692.2	1651.9
12.5°	2111.2	2121.6	2116.3	2099.4	2073.5	2025.7	1961.0	1910.9	1869.0	1780.5	1744.7
15°	2338.8	2377.9	2352.9	2295.2	2296.5	2251.0	2166.4	2073.5	2024.1	1946.6	1840.9
17.5°	2581.2	2586.1	2575.4	2527.4	2495.4	2432.9	2354.8	2265.7	2165.8	2072.0	1959.8
20°	2710.4	2706.5	2684.1	2659.2	2604.1	2555.4	2470.1	2370.8	2242.6	2150.4	2028.0
22.5°	2782.2	2775.8	2765.2	2744.2	2698.4	2646.1	2569.6	2461.1	2339.0	2211.9	2070.5
25°	2775.8	2784.1	2785.4	2779.6	2763.6	2732.2	2672.0	2585.5	2463.8	2300.4	2153.0
27.5°	2524.6	2536.4	2570.6	2601.0	2635.0	2669.5	2664.9	2622.0	2531.9	2390.8	2210.6
30°	2273.4	2247.8	2311.2	2391.4	2445.8	2541.9	2595.7	2598.9	2548.3	2427.2	2251.6
32.5°	1924.8	1953.0	1981.1	2079.7	2198.7	2306.6	2413.8	2500.0	2509.9	2429.3	2275.7
35°	1495.5	1530.8	1582.0	1633.3	1761.5	1871.7	2060.0	2224.1	2354.8	2372.1	2277.9
37.5°	1205.2	1222.5	1255.0	1306.4	1390.2	1520.9	1666.6	1874.0	2063.4	2204.2	2210.4
40°	1053.4	1058.5	1095.0	1134.2	1202.1	1309.7	1441.0	1624.3	1851.1	2047.9	2129.9
42.5°	939.6	950.9	966.4	1004.0	1058.0	1139.1	1261.2	1412.6	1620.5	1846.9	2007.3
45°	807.4	820.2	829.8	854.8	893.2	947.7	1032.9	1171.3	1329.6	1563.4	1779.4
47.5°	720.0	721.0	728.1	747.0	773.1	814.0	874.2	963.2	1108.5	1298.2	1519.9
50°	657.5	667.6	670.3	684.9	705.5	735.6	785.5	861.2	980.4	1147.0	1350.7
52.5°	613.3	616.4	623.6	634.2	652.2	675.6	718.9	778.1	871.7	1013.7	1201.0
55°	548.5	548.5	555.5	563.9	574.1	595.3	624.1	667.6	738.8	849.0	1004.0
57.5°	488.5	491.7	496.7	499.3	508.0	522.0	546.1	579.1	632.2	717.0	840.3
60°	448.5	454.3	453.6	458.8	466.5	477.4	497.9	524.8	572.2	640.1	744.0
62.5°	413.7	413.3	413.2	419.3	427.0	437.4	450.7	474.0	514.3	574.5	662.9
65°	356.3	355.0	359.5	363.3	365.9	373.6	383.8	404.3	431.2	476.1	544.6
67.5°	305.2	301.6	303.9	305.2	309.7	315.6	325.2	337.9	359.3	395.3	447.0
70°	270.4	267.2	266.5	267.8	271.7	276.1	283.2	295.4	315.3	344.1	381.9
72.5°	234.5	232.4	232.2	235.1	236.8	239.8	244.8	255.9	271.7	293.3	328.6
75°	183.3	183.3	183.3	183.9	185.8	188.4	192.2	198.0	210.2	225.5	249.2
77.5°	137.4	137.2	136.5	136.3	139.2	140.3	141.2	146.6	153.4	163.8	181.1
80°	107.6	104.4	105.7	107.6	108.9	109.6	111.5	112.8	118.5	124.3	136.5
82.5°	80.0	77.3	77.5	80.5	80.7	81.4	83.3	85.1	87.2	92.5	99.1
85°	42.3	42.3	43.0	43.0	43.5	43.0	44.8	45.5	45.5	48.7	52.5
87.5°	19.0	17.9	18.4	18.8	18.3	18.8	19.1	19.5	19.9	20.3	20.5
90°	18.2	17.9	17.6	17.4	17.0	16.7	16.1	15.6	15.1	14.5	12.8
92.5°	24.5	24.6	24.8	24.9	25.1	24.9	24.5	24.1	23.6	23.2	22.3
95°	47.2	47.2	47.2	47.2	47.2	47.0	46.4	45.8	45.3	44.8	43.7
97.5°	72.6	72.6	72.7	72.8	72.8	72.6	71.9	71.3	70.7	70.1	69.3
100°	92.0	91.7	91.5	91.2	90.9	90.6	90.2	89.8	89.4	88.9	88.3
102.5°	111.9	111.9	111.9	112.0	112.0	111.9	111.5	111.0	110.6	110.2	109.3
105°	144.1	143.7	143.5	143.2	142.9	142.8	142.8	142.8	142.8	142.8	141.6
107.5°	177.6	177.7	177.9	178.1	178.2	178.1	177.7	177.2	176.8	176.3	175.9
110°	200.3	200.6	200.8	201.1	201.4	201.2	200.7	200.2	199.7	199.1	198.9



TEST NUMBER: P332217-930

CATALOG NUMBER: S123DIW-S1165D755U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	224.5	224.5	224.6	224.7	224.7	224.5	223.8	223.1	222.5	221.8	221.8
115°	257.8	258.0	258.0	258.2	258.4	258.4	258.2	258.0	258.0	257.8	258.0
117.5°	291.6	292.0	292.3	292.7	293.1	293.3	293.3	293.3	293.3	293.3	293.8
120°	315.3	315.5	315.8	316.1	316.3	316.6	316.7	316.8	317.0	317.1	317.8
122.5°	338.0	338.4	338.8	339.2	339.6	339.9	340.2	340.6	341.0	341.3	341.7
125°	372.2	372.7	373.2	373.8	374.3	374.9	375.4	375.9	376.5	377.0	377.2
127.5°	406.2	406.8	407.4	408.1	408.6	409.4	410.1	410.8	411.6	412.4	412.6
130°	428.4	429.4	430.3	431.3	432.2	432.9	433.5	434.1	434.6	435.1	435.5
132.5°	451.7	452.4	453.1	453.9	454.6	455.3	455.9	456.6	457.2	457.9	458.1
135°	487.7	488.0	488.3	488.5	488.9	489.3	489.8	490.3	490.8	491.4	491.5
137.5°	519.6	520.1	520.6	521.1	521.6	522.2	522.7	523.3	523.8	524.4	524.1
140°	540.4	541.4	542.3	543.2	544.1	544.7	544.9	544.9	545.1	545.3	545.1
142.5°	561.7	562.4	563.1	563.9	564.6	565.0	565.2	565.3	565.4	565.6	565.3
145°	592.5	593.0	593.5	594.0	594.6	594.9	595.1	595.2	595.3	595.5	595.1
147.5°	619.8	620.6	621.4	622.2	623.1	623.5	623.5	623.5	623.5	623.5	623.1
150°	637.2	638.1	638.9	639.6	640.4	640.8	640.8	640.8	640.8	640.8	640.6
152.5°	654.2	654.8	655.6	656.2	657.0	657.2	657.0	656.8	656.6	656.3	656.2
155°	677.2	678.1	679.1	680.0	680.9	681.1	680.6	680.0	679.6	679.0	678.8
157.5°	698.1	698.9	699.6	700.3	701.1	701.2	700.7	700.1	699.5	699.0	698.9
160°	711.7	712.2	712.7	713.3	713.8	713.7	713.1	712.4	711.8	711.0	711.0
162.5°	721.8	722.7	723.6	724.4	725.3	725.4	724.7	724.0	723.3	722.7	722.6
165°	736.5	737.4	738.3	739.3	740.2	740.3	739.5	738.7	737.8	737.0	737.0
167.5°	748.9	749.7	750.6	751.5	752.3	752.3	751.5	750.6	749.7	748.9	748.9
170°	755.2	756.2	757.1	758.1	759.0	759.0	758.1	757.1	756.2	755.2	755.2
172.5°	760.1	761.0	762.0	762.9	763.9	763.9	763.0	762.2	761.4	760.5	760.5
175°	765.5	766.5	767.4	768.3	769.3	769.3	768.5	767.8	767.0	766.1	766.1
177.5°	768.4	769.2	769.9	770.7	771.4	771.5	770.9	770.2	769.6	768.9	768.9
180°	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4



TEST NUMBER: P332217-930

CATALOG NUMBER: S123DIW-S1165D755U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5
2.5°	1363.5	1359.4	1355.4	1348.2	1342.0	1333.3	1330.7	1327.6	1318.4	1310.3	1304.1
5°	1446.8	1431.4	1409.0	1388.5	1371.9	1349.5	1336.6	1323.1	1303.9	1286.6	1272.5
7.5°	1534.0	1503.7	1468.8	1431.2	1396.1	1362.3	1335.0	1310.6	1283.7	1258.2	1238.4
10°	1603.2	1559.6	1510.9	1458.4	1413.5	1369.9	1333.4	1301.4	1266.8	1236.6	1211.7
12.5°	1682.1	1617.6	1550.4	1486.5	1433.5	1373.0	1328.8	1288.1	1248.9	1212.6	1184.5
15°	1775.6	1693.5	1614.0	1526.3	1445.5	1369.9	1317.4	1266.2	1220.7	1183.5	1147.6
17.5°	1860.7	1767.7	1663.0	1556.2	1458.9	1369.2	1295.6	1237.7	1180.8	1135.3	1099.5
20°	1908.9	1803.1	1684.6	1573.7	1466.1	1366.1	1285.4	1216.2	1154.6	1106.6	1066.2
22.5°	1950.4	1826.7	1704.1	1585.5	1465.6	1357.9	1266.4	1195.1	1128.5	1081.5	1038.5
25°	1993.4	1845.4	1722.4	1583.3	1449.4	1337.9	1235.4	1154.6	1088.0	1032.9	988.7
27.5°	2030.3	1844.1	1698.1	1548.6	1424.0	1312.3	1202.8	1116.2	1045.5	985.6	940.8
30°	2054.9	1846.7	1673.0	1525.0	1399.5	1284.1	1177.7	1090.5	1016.3	955.4	913.1
32.5°	2070.3	1845.1	1649.9	1492.2	1360.5	1258.4	1150.6	1060.3	984.0	924.1	883.4
35°	2079.3	1833.9	1610.2	1424.4	1297.5	1198.2	1107.9	1014.3	934.3	878.5	832.3
37.5°	2061.3	1810.1	1564.1	1359.0	1220.2	1122.3	1046.4	966.6	890.0	828.7	788.9
40°	2033.1	1794.8	1528.2	1313.0	1166.9	1072.6	1008.0	929.8	854.1	795.8	758.6
42.5°	1979.3	1763.5	1488.7	1261.7	1111.5	1017.2	957.7	892.3	820.8	766.1	729.0
45°	1848.0	1695.4	1429.5	1184.8	1029.7	932.3	879.8	832.3	767.6	714.4	682.4
47.5°	1665.7	1593.1	1343.9	1103.7	944.4	850.7	796.1	757.9	710.6	667.6	636.9
50°	1539.1	1509.0	1286.0	1048.3	887.5	795.8	743.3	708.7	674.7	631.8	603.6
52.5°	1393.0	1411.6	1218.4	990.8	829.6	739.5	690.0	662.5	631.7	596.4	571.9
55°	1187.3	1254.6	1101.5	894.5	743.3	657.5	610.7	586.3	568.3	542.1	521.0
57.5°	994.7	1080.4	975.1	795.2	658.6	584.5	539.6	513.1	501.6	487.9	471.2
60°	880.4	965.0	884.9	728.6	601.7	531.2	491.5	469.0	457.5	447.9	433.8
62.5°	778.4	864.0	796.7	660.9	545.8	480.5	445.8	424.0	415.0	409.9	397.9
65°	638.2	711.9	667.0	555.5	465.9	408.1	376.7	361.4	353.0	351.1	343.5
67.5°	519.4	575.5	542.8	460.8	390.2	340.4	313.7	300.7	294.2	293.6	287.8
70°	441.5	494.0	469.0	394.7	333.9	294.7	271.7	260.2	256.3	255.7	252.5
72.5°	381.0	417.7	397.8	335.7	288.7	253.2	236.3	224.3	219.9	220.8	218.7
75°	281.9	309.5	298.0	255.0	217.2	194.1	180.0	172.4	168.5	170.5	167.9
77.5°	202.8	220.3	209.9	180.2	156.9	140.2	129.8	125.1	121.6	121.5	120.3
80°	153.1	163.4	157.6	139.7	120.5	106.4	98.0	94.8	92.9	92.3	91.6
82.5°	109.1	117.8	111.0	98.7	85.6	77.1	72.4	68.2	66.8	67.2	66.5
85°	55.1	58.3	55.8	48.0	43.0	39.1	36.5	34.6	33.3	34.0	32.7
87.5°	21.2	21.4	19.5	17.1	15.8	14.0	13.7	12.4	11.7	11.9	11.7
90°	11.0	9.3	7.5	6.0	4.6	3.3	2.0	0.6	2.0	3.3	4.6
92.5°	21.3	20.2	19.2	18.3	17.4	16.5	15.6	14.7	15.6	16.5	17.4
95°	42.6	41.6	40.4	39.5	38.6	37.6	36.6	35.7	36.6	37.6	38.6
97.5°	68.5	67.8	66.9	66.2	65.6	64.8	64.1	63.4	64.1	64.8	65.6
100°	87.6	86.9	86.3	85.5	84.7	83.9	83.1	82.3	83.1	83.9	84.7
102.5°	108.5	107.6	106.7	106.0	105.5	105.1	104.6	104.1	104.6	105.1	105.5
105°	140.4	139.2	137.9	137.2	137.0	136.7	136.4	136.2	136.4	136.7	137.0
107.5°	175.4	174.9	174.4	174.1	173.9	173.7	173.6	173.4	173.6	173.7	173.9
110°	198.5	198.3	198.0	197.7	197.5	197.2	197.0	196.7	197.0	197.2	197.5





TEST NUMBER: P332217-930

CATALOG NUMBER: S123DIW-S1165D755U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	221.8	221.7	221.6	221.5	221.4	221.2	221.0	220.9	221.0	221.2	221.4
115°	258.4	258.6	258.9	258.8	258.4	258.0	257.6	257.2	257.6	258.0	258.4
117.5°	294.1	294.4	294.8	294.8	294.6	294.2	294.0	293.8	294.0	294.2	294.6
120°	318.5	319.1	319.8	319.8	318.9	318.1	317.3	316.5	317.3	318.1	318.9
122.5°	342.0	342.3	342.7	342.6	342.0	341.4	340.8	340.2	340.8	341.4	342.0
125°	377.6	377.8	378.1	378.1	377.6	377.2	376.8	376.4	376.8	377.2	377.6
127.5°	412.9	413.3	413.5	413.3	412.4	411.6	410.7	409.8	410.7	411.6	412.4
130°	435.9	436.3	436.8	436.3	435.3	434.2	433.2	432.1	433.2	434.2	435.3
132.5°	458.4	458.8	459.0	458.7	457.5	456.5	455.4	454.4	455.4	456.5	457.5
135°	491.6	491.8	492.0	491.5	490.8	490.0	489.2	488.4	489.2	490.0	490.8
137.5°	523.7	523.3	523.0	522.5	521.9	521.1	520.5	519.8	520.5	521.1	521.9
140°	544.9	544.9	544.7	544.3	543.6	543.0	542.3	541.6	542.3	543.0	543.6
142.5°	565.1	564.8	564.6	564.1	563.5	562.8	562.1	561.5	562.1	562.8	563.5
145°	594.7	594.3	593.9	593.5	593.2	593.0	592.7	592.5	592.7	593.0	593.2
147.5°	622.6	622.3	621.9	621.5	621.0	620.5	620.0	619.5	620.0	620.5	621.0
150°	640.3	640.0	639.8	639.5	639.3	639.0	638.7	638.5	638.7	639.0	639.3
152.5°	656.0	655.8	655.7	655.4	655.1	654.7	654.3	654.0	654.3	654.7	655.1
155°	678.7	678.6	678.4	678.4	678.4	678.4	678.4	678.4	678.4	678.4	678.4
157.5°	698.7	698.6	698.5	698.5	698.7	698.9	699.0	699.2	699.0	698.9	698.7
160°	711.0	711.0	711.0	711.2	711.4	711.8	712.0	712.2	712.0	711.8	711.4
162.5°	722.4	722.4	722.3	722.4	722.8	723.1	723.5	723.9	723.5	723.1	722.8
165°	737.0	737.0	737.0	737.3	737.7	738.1	738.5	738.9	738.5	738.1	737.7
167.5°	748.7	748.6	748.5	748.7	749.3	749.8	750.3	750.9	750.3	749.8	749.3
170°	755.2	755.2	755.2	755.5	756.0	756.6	757.1	757.7	757.1	756.6	756.0
172.5°	760.5	760.5	760.5	760.8	761.3	761.9	762.5	763.0	762.5	761.9	761.3
175°	766.1	766.1	766.1	766.4	767.0	767.4	768.0	768.5	768.0	767.4	767.0
177.5°	768.9	768.9	768.9	769.2	769.6	770.0	770.4	770.9	770.4	770.0	769.6
180°	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4



TEST NUMBER: P332217-930

CATALOG NUMBER: S123DIW-S1165D755U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5
2.5°	1300.5	1296.9	1291.8	1284.1	1277.9	1268.2	1268.2	1269.7	1269.7	1269.3	1268.2
5°	1261.0	1251.4	1239.9	1226.5	1212.4	1198.2	1195.6	1190.5	1186.7	1184.1	1181.0
7.5°	1219.4	1202.3	1185.5	1166.7	1149.5	1135.3	1125.4	1117.2	1112.0	1106.4	1102.2
10°	1191.2	1170.0	1150.1	1130.3	1108.5	1091.2	1080.4	1072.6	1066.9	1061.8	1059.2
12.5°	1157.9	1133.7	1111.7	1092.9	1069.0	1051.2	1040.9	1037.2	1030.5	1019.7	1014.1
15°	1109.1	1086.7	1060.5	1031.6	1020.1	998.3	986.1	980.4	976.5	968.2	965.6
17.5°	1067.5	1038.1	1008.7	987.2	965.7	948.0	941.3	934.1	929.0	922.2	920.1
20°	1034.2	1008.0	981.0	958.0	935.5	916.3	910.5	905.4	900.3	897.1	894.5
22.5°	1000.4	974.1	951.8	930.3	906.3	893.7	887.5	881.8	878.2	876.0	873.5
25°	952.8	929.8	904.7	885.5	866.3	857.9	854.1	850.9	848.4	845.1	844.5
27.5°	910.3	885.2	864.9	846.9	833.2	826.2	822.5	820.9	821.5	822.6	823.4
30°	878.5	855.4	838.8	823.4	810.6	804.1	803.5	803.5	806.1	806.7	808.0
32.5°	849.3	830.3	813.7	798.7	789.0	784.6	787.1	787.1	789.1	790.8	793.1
35°	806.7	790.0	777.2	764.4	756.1	758.0	759.3	760.6	763.8	767.6	770.2
37.5°	766.1	751.6	738.3	728.3	724.5	727.9	731.0	733.7	737.4	740.4	742.9
40°	736.9	725.9	713.1	704.2	705.5	707.4	710.0	713.1	716.4	718.3	720.9
42.5°	709.7	698.3	688.6	681.1	682.9	685.3	686.9	688.6	692.3	695.8	697.2
45°	668.3	659.3	650.4	645.9	647.2	648.5	649.7	651.7	654.8	657.5	658.0
47.5°	621.8	615.6	609.5	605.1	607.2	606.7	608.4	612.5	613.4	615.0	618.6
50°	592.1	586.3	579.3	578.0	578.0	578.0	578.6	583.8	583.8	586.3	588.9
52.5°	559.3	555.5	551.1	548.8	547.7	547.7	550.4	553.0	554.0	557.6	560.2
55°	510.7	506.9	503.0	501.1	499.8	501.1	506.2	507.4	510.7	512.6	514.5
57.5°	460.1	457.1	454.0	453.0	452.7	454.4	457.2	461.1	461.9	467.7	470.7
60°	426.7	422.2	419.7	419.7	418.4	424.2	422.9	429.3	430.6	434.5	439.0
62.5°	392.4	386.4	385.4	385.4	387.2	388.8	390.6	393.5	396.7	401.6	405.1
65°	337.0	333.9	338.3	337.7	336.4	340.2	340.2	343.5	347.3	351.8	358.8
67.5°	284.6	283.0	283.3	283.3	285.3	287.5	289.3	292.0	296.7	301.4	306.1
70°	249.2	251.2	248.0	250.5	252.5	253.1	254.4	258.2	263.3	266.5	271.7
72.5°	214.9	214.7	215.2	216.2	218.1	219.2	220.5	224.9	230.6	233.3	237.3
75°	165.3	164.7	166.6	166.6	169.8	171.0	172.4	174.3	179.4	183.3	186.5
77.5°	120.7	121.5	121.1	123.3	122.4	122.6	126.6	128.6	129.1	136.6	138.3
80°	91.0	92.3	92.9	93.5	94.2	92.9	97.4	99.3	99.3	103.8	107.0
82.5°	65.4	66.1	67.8	68.4	68.6	69.9	70.2	71.7	73.2	75.1	79.3
85°	32.7	34.6	35.2	34.6	35.2	34.0	35.9	36.5	37.2	37.2	37.2
87.5°	11.4	12.3	12.1	13.0	12.8	13.7	13.8	12.9	13.0	14.6	12.6
90°	6.0	7.5	9.3	11.0	12.8	14.5	15.1	15.6	16.1	16.7	17.0
92.5°	18.3	19.2	20.2	21.3	22.3	23.2	23.6	24.1	24.5	24.9	25.1
95°	39.5	40.4	41.6	42.6	43.7	44.8	45.3	45.8	46.4	47.0	47.2
97.5°	66.2	66.9	67.8	68.5	69.3	70.1	70.7	71.3	71.9	72.6	72.8
100°	85.5	86.3	86.9	87.6	88.3	88.9	89.4	89.8	90.2	90.6	90.9
102.5°	106.0	106.7	107.6	108.5	109.3	110.2	110.6	111.0	111.5	111.9	112.0
105°	137.2	137.9	139.2	140.4	141.6	142.8	142.8	142.8	142.8	142.8	142.9
107.5°	174.1	174.4	174.9	175.4	175.9	176.3	176.8	177.2	177.7	178.1	178.2
110°	197.7	198.0	198.3	198.5	198.9	199.1	199.7	200.2	200.7	201.2	201.4



TEST NUMBER: P332217-930

CATALOG NUMBER: S123DIW-S1165D755U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	221.5	221.6	221.7	221.8	221.8	221.8	222.5	223.1	223.8	224.5	224.7
115°	258.8	258.9	258.6	258.4	258.0	257.8	258.0	258.0	258.2	258.4	258.4
117.5°	294.8	294.8	294.4	294.1	293.8	293.3	293.3	293.3	293.3	293.3	293.1
120°	319.8	319.8	319.1	318.5	317.8	317.1	317.0	316.8	316.7	316.6	316.3
122.5°	342.6	342.7	342.3	342.0	341.7	341.3	341.0	340.6	340.2	339.9	339.6
125°	378.1	378.1	377.8	377.6	377.2	377.0	376.5	375.9	375.4	374.9	374.3
127.5°	413.3	413.5	413.3	412.9	412.6	412.4	411.6	410.8	410.1	409.4	408.6
130°	436.3	436.8	436.3	435.9	435.5	435.1	434.6	434.1	433.5	432.9	432.2
132.5°	458.7	459.0	458.8	458.4	458.1	457.9	457.2	456.6	455.9	455.3	454.6
135°	491.5	492.0	491.8	491.6	491.5	491.4	490.8	490.3	489.8	489.3	488.9
137.5°	522.5	523.0	523.3	523.7	524.1	524.4	523.8	523.3	522.7	522.2	521.6
140°	544.3	544.7	544.9	544.9	545.1	545.3	545.1	544.9	544.9	544.7	544.1
142.5°	564.1	564.6	564.8	565.1	565.3	565.6	565.4	565.3	565.2	565.0	564.6
145°	593.5	593.9	594.3	594.7	595.1	595.5	595.3	595.2	595.1	594.9	594.6
147.5°	621.5	621.9	622.3	622.6	623.1	623.5	623.5	623.5	623.5	623.5	623.1
150°	639.5	639.8	640.0	640.3	640.6	640.8	640.8	640.8	640.8	640.8	640.4
152.5°	655.4	655.7	655.8	656.0	656.2	656.3	656.6	656.8	657.0	657.2	657.0
155°	678.4	678.4	678.6	678.7	678.8	679.0	679.6	680.0	680.6	681.1	680.9
157.5°	698.5	698.5	698.6	698.7	698.9	699.0	699.5	700.1	700.7	701.2	701.1
160°	711.2	711.0	711.0	711.0	711.0	711.0	711.8	712.4	713.1	713.7	713.8
162.5°	722.4	722.3	722.4	722.4	722.6	722.7	723.3	724.0	724.7	725.4	725.3
165°	737.3	737.0	737.0	737.0	737.0	737.0	737.8	738.7	739.5	740.3	740.2
167.5°	748.7	748.5	748.6	748.7	748.9	748.9	749.7	750.6	751.5	752.3	752.3
170°	755.5	755.2	755.2	755.2	755.2	755.2	756.2	757.1	758.1	759.0	759.0
172.5°	760.8	760.5	760.5	760.5	760.5	760.5	761.4	762.2	763.0	763.9	763.9
175°	766.4	766.1	766.1	766.1	766.1	766.1	767.0	767.8	768.5	769.3	769.3
177.5°	769.2	768.9	768.9	768.9	768.9	768.9	769.6	770.2	770.9	771.5	771.4
180°	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4



TEST NUMBER: P332217-930

CATALOG NUMBER: S123DIW-S1165D755U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5
2.5°	1264.6	1264.1	1267.7	1265.1	1267.7	1264.1	1264.6	1268.2	1269.3	1269.7	1269.7
5°	1177.0	1179.0	1172.6	1172.6	1172.6	1179.0	1177.0	1181.0	1184.1	1186.7	1190.5
7.5°	1099.2	1096.3	1096.6	1093.2	1096.6	1096.3	1099.2	1102.2	1106.4	1112.0	1117.2
10°	1051.5	1047.7	1046.4	1047.0	1046.4	1047.7	1051.5	1059.2	1061.8	1066.9	1072.6
12.5°	1012.0	1011.2	1002.8	1002.9	1002.8	1011.2	1012.0	1014.1	1019.7	1030.5	1037.2
15°	965.6	953.5	952.2	956.0	952.2	953.5	965.6	965.6	968.2	976.5	980.4
17.5°	919.1	912.7	913.1	911.2	913.1	912.7	919.1	920.1	922.2	929.0	934.1
20°	894.5	890.6	890.0	885.5	890.0	890.6	894.5	894.5	897.1	900.3	905.4
22.5°	872.0	870.7	871.1	866.1	871.1	870.7	872.0	873.5	876.0	878.2	881.8
25°	843.9	847.1	844.5	844.5	844.5	847.1	843.9	844.5	845.1	848.4	850.9
27.5°	824.9	824.8	823.5	823.5	823.5	824.8	824.9	823.4	822.6	821.5	820.9
30°	810.6	809.9	811.2	811.2	811.2	809.9	810.6	808.0	806.7	806.1	803.5
32.5°	796.2	797.1	797.4	797.9	797.4	797.1	796.2	793.1	790.8	789.1	787.1
35°	774.0	774.7	776.6	775.3	776.6	774.7	774.0	770.2	767.6	763.8	760.6
37.5°	744.0	747.0	746.3	747.4	746.3	747.0	744.0	742.9	740.4	737.4	733.7
40°	721.5	723.4	722.8	722.8	722.8	723.4	721.5	720.9	718.3	716.4	713.1
42.5°	698.5	699.9	698.1	697.2	698.1	699.9	698.5	697.2	695.8	692.3	688.6
45°	660.6	659.3	661.3	658.7	661.3	659.3	660.6	658.0	657.5	654.8	651.7
47.5°	618.3	619.6	620.1	622.1	620.1	619.6	618.3	618.6	615.0	613.4	612.5
50°	590.1	593.9	593.9	593.4	593.9	593.9	590.1	588.9	586.3	583.8	583.8
52.5°	562.5	564.3	566.8	566.7	566.8	564.3	562.5	560.2	557.6	554.0	553.0
55°	519.7	521.0	522.2	522.9	522.2	521.0	519.7	514.5	512.6	510.7	507.4
57.5°	475.3	474.8	477.8	478.7	477.8	474.8	475.3	470.7	467.7	461.9	461.1
60°	444.0	444.0	449.1	451.1	449.1	444.0	444.0	439.0	434.5	430.6	429.3
62.5°	410.7	412.8	417.9	415.2	417.9	412.8	410.7	405.1	401.6	396.7	393.5
65°	362.0	367.1	366.5	369.1	366.5	367.1	362.0	358.8	351.8	347.3	343.5
67.5°	311.1	314.4	318.9	319.4	318.9	314.4	311.1	306.1	301.4	296.7	292.0
70°	276.8	280.0	282.6	284.5	282.6	280.0	276.8	271.7	266.5	263.3	258.2
72.5°	243.5	245.2	251.3	248.6	251.3	245.2	243.5	237.3	233.3	230.6	224.9
75°	190.9	195.4	199.3	197.4	199.3	195.4	190.9	186.5	183.3	179.4	174.3
77.5°	141.2	145.7	147.5	145.9	147.5	145.7	141.2	138.3	136.6	129.1	128.6
80°	111.5	110.9	114.7	114.1	114.7	110.9	111.5	107.0	103.8	99.3	99.3
82.5°	81.8	81.1	82.9	83.3	82.9	81.1	81.8	79.3	75.1	73.2	71.7
85°	39.7	41.7	39.1	38.5	39.1	41.7	39.7	37.2	37.2	37.2	36.5
87.5°	12.7	12.7	12.3	11.8	12.3	12.7	12.7	12.6	14.6	13.0	12.9
90°	17.4	17.6	17.9	18.2	17.9	17.6	17.4	17.0	16.7	16.1	15.6
92.5°	24.9	24.8	24.6	24.5	24.6	24.8	24.9	25.1	24.9	24.5	24.1
95°	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.0	46.4	45.8
97.5°	72.8	72.7	72.6	72.6	72.6	72.7	72.8	72.8	72.6	71.9	71.3
100°	91.2	91.5	91.7	92.0	91.7	91.5	91.2	90.9	90.6	90.2	89.8
102.5°	112.0	111.9	111.9	111.9	111.9	111.9	112.0	112.0	111.9	111.5	111.0
105°	143.2	143.5	143.7	144.1	143.7	143.5	143.2	142.9	142.8	142.8	142.8
107.5°	178.1	177.9	177.7	177.6	177.7	177.9	178.1	178.2	178.1	177.7	177.2
110°	201.1	200.8	200.6	200.3	200.6	200.8	201.1	201.4	201.2	200.7	200.2



TEST NUMBER: P332217-930

CATALOG NUMBER: S123DIW-S1165D755U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	224.7	224.6	224.5	224.5	224.5	224.6	224.7	224.7	224.5	223.8	223.1
115°	258.2	258.0	258.0	257.8	258.0	258.0	258.2	258.4	258.4	258.2	258.0
117.5°	292.7	292.3	292.0	291.6	292.0	292.3	292.7	293.1	293.3	293.3	293.3
120°	316.1	315.8	315.5	315.3	315.5	315.8	316.1	316.3	316.6	316.7	316.8
122.5°	339.2	338.8	338.4	338.0	338.4	338.8	339.2	339.6	339.9	340.2	340.6
125°	373.8	373.2	372.7	372.2	372.7	373.2	373.8	374.3	374.9	375.4	375.9
127.5°	408.1	407.4	406.8	406.2	406.8	407.4	408.1	408.6	409.4	410.1	410.8
130°	431.3	430.3	429.4	428.4	429.4	430.3	431.3	432.2	432.9	433.5	434.1
132.5°	453.9	453.1	452.4	451.7	452.4	453.1	453.9	454.6	455.3	455.9	456.6
135°	488.5	488.3	488.0	487.7	488.0	488.3	488.5	488.9	489.3	489.8	490.3
137.5°	521.1	520.6	520.1	519.6	520.1	520.6	521.1	521.6	522.2	522.7	523.3
140°	543.2	542.3	541.4	540.4	541.4	542.3	543.2	544.1	544.7	544.9	544.9
142.5°	563.9	563.1	562.4	561.7	562.4	563.1	563.9	564.6	565.0	565.2	565.3
145°	594.0	593.5	593.0	592.5	593.0	593.5	594.0	594.6	594.9	595.1	595.2
147.5°	622.2	621.4	620.6	619.8	620.6	621.4	622.2	623.1	623.5	623.5	623.5
150°	639.6	638.9	638.1	637.2	638.1	638.9	639.6	640.4	640.8	640.8	640.8
152.5°	656.2	655.6	654.8	654.2	654.8	655.6	656.2	657.0	657.2	657.0	656.8
155°	680.0	679.1	678.1	677.2	678.1	679.1	680.0	680.9	681.1	680.6	680.0
157.5°	700.3	699.6	698.9	698.1	698.9	699.6	700.3	701.1	701.2	700.7	700.1
160°	713.3	712.7	712.2	711.7	712.2	712.7	713.3	713.8	713.7	713.1	712.4
162.5°	724.4	723.6	722.7	721.8	722.7	723.6	724.4	725.3	725.4	724.7	724.0
165°	739.3	738.3	737.4	736.5	737.4	738.3	739.3	740.2	740.3	739.5	738.7
167.5°	751.5	750.6	749.7	748.9	749.7	750.6	751.5	752.3	752.3	751.5	750.6
170°	758.1	757.1	756.2	755.2	756.2	757.1	758.1	759.0	759.0	758.1	757.1
172.5°	762.9	762.0	761.0	760.1	761.0	762.0	762.9	763.9	763.9	763.0	762.2
175°	768.3	767.4	766.5	765.5	766.5	767.4	768.3	769.3	769.3	768.5	767.8
177.5°	770.7	769.9	769.2	768.4	769.2	769.9	770.7	771.4	771.5	770.9	770.2
180°	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4



TEST NUMBER: P332217-930

CATALOG NUMBER: S123DIW-S1165D755U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5
2.5°	1268.2	1268.2	1277.9	1284.1	1291.8	1296.9	1300.5	1304.1	1310.3	1318.4	1327.6
5°	1195.6	1198.2	1212.4	1226.5	1239.9	1251.4	1261.0	1272.5	1286.6	1303.9	1323.1
7.5°	1125.4	1135.3	1149.5	1166.7	1185.5	1202.3	1219.4	1238.4	1258.2	1283.7	1310.6
10°	1080.4	1091.2	1108.5	1130.3	1150.1	1170.0	1191.2	1211.7	1236.6	1266.8	1301.4
12.5°	1040.9	1051.2	1069.0	1092.9	1111.7	1133.7	1157.9	1184.5	1212.6	1248.9	1288.1
15°	986.1	998.3	1020.1	1031.6	1060.5	1086.7	1109.1	1147.6	1183.5	1220.7	1266.2
17.5°	941.3	948.0	965.7	987.2	1008.7	1038.1	1067.5	1099.5	1135.3	1180.8	1237.7
20°	910.5	916.3	935.5	958.0	981.0	1008.0	1034.2	1066.2	1106.6	1154.6	1216.2
22.5°	887.5	893.7	906.3	930.3	951.8	974.1	1000.4	1038.5	1081.5	1128.5	1195.1
25°	854.1	857.9	866.3	885.5	904.7	929.8	952.8	988.7	1032.9	1088.0	1154.6
27.5°	822.5	826.2	833.2	846.9	864.9	885.2	910.3	940.8	985.6	1045.5	1116.2
30°	803.5	804.1	810.6	823.4	838.8	855.4	878.5	913.1	955.4	1016.3	1090.5
32.5°	787.1	784.6	789.0	798.7	813.7	830.3	849.3	883.4	924.1	984.0	1060.3
35°	759.3	758.0	756.1	764.4	777.2	790.0	806.7	832.3	878.5	934.3	1014.3
37.5°	731.0	727.9	724.5	728.3	738.3	751.6	766.1	788.9	828.7	890.0	966.6
40°	710.0	707.4	705.5	704.2	713.1	725.9	736.9	758.6	795.8	854.1	929.8
42.5°	686.9	685.3	682.9	681.1	688.6	698.3	709.7	729.0	766.1	820.8	892.3
45°	649.7	648.5	647.2	645.9	650.4	659.3	668.3	682.4	714.4	767.6	832.3
47.5°	608.4	606.7	607.2	605.1	609.5	615.6	621.8	636.9	667.6	710.6	757.9
50°	578.6	578.0	578.0	578.0	579.3	586.3	592.1	603.6	631.8	674.7	708.7
52.5°	550.4	547.7	547.7	548.8	551.1	555.5	559.3	571.9	596.4	631.7	662.5
55°	506.2	501.1	499.8	501.1	503.0	506.9	510.7	521.0	542.1	568.3	586.3
57.5°	457.2	454.4	452.7	453.0	454.0	457.1	460.1	471.2	487.9	501.6	513.1
60°	422.9	424.2	418.4	419.7	419.7	422.2	426.7	433.8	447.9	457.5	469.0
62.5°	390.6	388.8	387.2	385.4	385.4	386.4	392.4	397.9	409.9	415.0	424.0
65°	340.2	340.2	336.4	337.7	338.3	333.9	337.0	343.5	351.1	353.0	361.4
67.5°	289.3	287.5	285.3	283.3	283.3	283.0	284.6	287.8	293.6	294.2	300.7
70°	254.4	253.1	252.5	250.5	248.0	251.2	249.2	252.5	255.7	256.3	260.2
72.5°	220.5	219.2	218.1	216.2	215.2	214.7	214.9	218.7	220.8	219.9	224.3
75°	172.4	171.0	169.8	166.6	166.6	164.7	165.3	167.9	170.5	168.5	172.4
77.5°	126.6	122.6	122.4	123.3	121.1	121.5	120.7	120.3	121.5	121.6	125.1
80°	97.4	92.9	94.2	93.5	92.9	92.3	91.0	91.6	92.3	92.9	94.8
82.5°	70.2	69.9	68.6	68.4	67.8	66.1	65.4	66.5	67.2	66.8	68.2
85°	35.9	34.0	35.2	34.6	35.2	34.6	32.7	32.7	34.0	33.3	34.6
87.5°	13.8	13.7	12.8	13.0	12.1	12.3	11.4	11.7	11.9	11.7	12.4
90°	15.1	14.5	12.8	11.0	9.3	7.5	6.0	4.6	3.3	2.0	0.6
92.5°	23.6	23.2	22.3	21.3	20.2	19.2	18.3	17.4	16.5	15.6	14.7
95°	45.3	44.8	43.7	42.6	41.6	40.4	39.5	38.6	37.6	36.6	35.7
97.5°	70.7	70.1	69.3	68.5	67.8	66.9	66.2	65.6	64.8	64.1	63.4
100°	89.4	88.9	88.3	87.6	86.9	86.3	85.5	84.7	83.9	83.1	82.3
102.5°	110.6	110.2	109.3	108.5	107.6	106.7	106.0	105.5	105.1	104.6	104.1
105°	142.8	142.8	141.6	140.4	139.2	137.9	137.2	137.0	136.7	136.4	136.2
107.5°	176.8	176.3	175.9	175.4	174.9	174.4	174.1	173.9	173.7	173.6	173.4
110°	199.7	199.1	198.9	198.5	198.3	198.0	197.7	197.5	197.2	197.0	196.7



TEST NUMBER: P332217-930

CATALOG NUMBER: S123DIW-S1165D755U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	222.5	221.8	221.8	221.8	221.7	221.6	221.5	221.4	221.2	221.0	220.9
115°	258.0	257.8	258.0	258.4	258.6	258.9	258.8	258.4	258.0	257.6	257.2
117.5°	293.3	293.3	293.8	294.1	294.4	294.8	294.8	294.6	294.2	294.0	293.8
120°	317.0	317.1	317.8	318.5	319.1	319.8	319.8	318.9	318.1	317.3	316.5
122.5°	341.0	341.3	341.7	342.0	342.3	342.7	342.6	342.0	341.4	340.8	340.2
125°	376.5	377.0	377.2	377.6	377.8	378.1	378.1	377.6	377.2	376.8	376.4
127.5°	411.6	412.4	412.6	412.9	413.3	413.5	413.3	412.4	411.6	410.7	409.8
130°	434.6	435.1	435.5	435.9	436.3	436.8	436.3	435.3	434.2	433.2	432.1
132.5°	457.2	457.9	458.1	458.4	458.8	459.0	458.7	457.5	456.5	455.4	454.4
135°	490.8	491.4	491.5	491.6	491.8	492.0	491.5	490.8	490.0	489.2	488.4
137.5°	523.8	524.4	524.1	523.7	523.3	523.0	522.5	521.9	521.1	520.5	519.8
140°	545.1	545.3	545.1	544.9	544.9	544.7	544.3	543.6	543.0	542.3	541.6
142.5°	565.4	565.6	565.3	565.1	564.8	564.6	564.1	563.5	562.8	562.1	561.5
145°	595.3	595.5	595.1	594.7	594.3	593.9	593.5	593.2	593.0	592.7	592.5
147.5°	623.5	623.5	623.1	622.6	622.3	621.9	621.5	621.0	620.5	620.0	619.5
150°	640.8	640.8	640.6	640.3	640.0	639.8	639.5	639.3	639.0	638.7	638.5
152.5°	656.6	656.3	656.2	656.0	655.8	655.7	655.4	655.1	654.7	654.3	654.0
155°	679.6	679.0	678.8	678.7	678.6	678.4	678.4	678.4	678.4	678.4	678.4
157.5°	699.5	699.0	698.9	698.7	698.6	698.5	698.5	698.7	698.9	699.0	699.2
160°	711.8	711.0	711.0	711.0	711.0	711.0	711.2	711.4	711.8	712.0	712.2
162.5°	723.3	722.7	722.6	722.4	722.4	722.3	722.4	722.8	723.1	723.5	723.9
165°	737.8	737.0	737.0	737.0	737.0	737.0	737.3	737.7	738.1	738.5	738.9
167.5°	749.7	748.9	748.9	748.7	748.6	748.5	748.7	749.3	749.8	750.3	750.9
170°	756.2	755.2	755.2	755.2	755.2	755.2	755.5	756.0	756.6	757.1	757.7
172.5°	761.4	760.5	760.5	760.5	760.5	760.5	760.8	761.3	761.9	762.5	763.0
175°	767.0	766.1	766.1	766.1	766.1	766.1	766.4	767.0	767.4	768.0	768.5
177.5°	769.6	768.9	768.9	768.9	768.9	768.9	769.2	769.6	770.0	770.4	770.9
180°	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4



TEST NUMBER: P332217-930

CATALOG NUMBER: S123DIW-S1165D755U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5
2.5°	1330.7	1333.3	1342.0	1348.2	1355.4	1359.4	1363.5	1366.6	1370.7	1371.7	1386.6
5°	1336.6	1349.5	1371.9	1388.5	1409.0	1431.4	1446.8	1453.9	1472.4	1487.8	1518.6
7.5°	1335.0	1362.3	1396.1	1431.2	1468.8	1503.7	1534.0	1569.9	1595.4	1633.7	1671.5
10°	1333.4	1369.9	1413.5	1458.4	1510.9	1559.6	1603.2	1651.9	1692.2	1745.4	1790.9
12.5°	1328.8	1373.0	1433.5	1486.5	1550.4	1617.6	1682.1	1744.7	1780.5	1869.0	1910.9
15°	1317.4	1369.9	1445.5	1526.3	1614.0	1693.5	1775.6	1840.9	1946.6	2024.1	2073.5
17.5°	1295.6	1369.2	1458.9	1556.2	1663.0	1767.7	1860.7	1959.8	2072.0	2165.8	2265.7
20°	1285.4	1366.1	1466.1	1573.7	1684.6	1803.1	1908.9	2028.0	2150.4	2242.6	2370.8
22.5°	1266.4	1357.9	1465.6	1585.5	1704.1	1826.7	1950.4	2070.5	2211.9	2339.0	2461.1
25°	1235.4	1337.9	1449.4	1583.3	1722.4	1845.4	1993.4	2153.0	2300.4	2463.8	2585.5
27.5°	1202.8	1312.3	1424.0	1548.6	1698.1	1844.1	2030.3	2210.6	2390.8	2531.9	2622.0
30°	1177.7	1284.1	1399.5	1525.0	1673.0	1846.7	2054.9	2251.6	2427.2	2548.3	2598.9
32.5°	1150.6	1258.4	1360.5	1492.2	1649.9	1845.1	2070.3	2275.7	2429.3	2509.9	2500.0
35°	1107.9	1198.2	1297.5	1424.4	1610.2	1833.9	2079.3	2277.9	2372.1	2354.8	2224.1
37.5°	1046.4	1122.3	1220.2	1359.0	1564.1	1810.1	2061.3	2210.4	2204.2	2063.4	1874.0
40°	1008.0	1072.6	1166.9	1313.0	1528.2	1794.8	2033.1	2129.9	2047.9	1851.1	1624.3
42.5°	957.7	1017.2	1111.5	1261.7	1488.7	1763.5	1979.3	2007.3	1846.9	1620.5	1412.6
45°	879.8	932.3	1029.7	1184.8	1429.5	1695.4	1848.0	1779.4	1563.4	1329.6	1171.3
47.5°	796.1	850.7	944.4	1103.7	1343.9	1593.1	1665.7	1519.9	1298.2	1108.5	963.2
50°	743.3	795.8	887.5	1048.3	1286.0	1509.0	1539.1	1350.7	1147.0	980.4	861.2
52.5°	690.0	739.5	829.6	990.8	1218.4	1411.6	1393.0	1201.0	1013.7	871.7	778.1
55°	610.7	657.5	743.3	894.5	1101.5	1254.6	1187.3	1004.0	849.0	738.8	667.6
57.5°	539.6	584.5	658.6	795.2	975.1	1080.4	994.7	840.3	717.0	632.2	579.1
60°	491.5	531.2	601.7	728.6	884.9	965.0	880.4	744.0	640.1	572.2	524.8
62.5°	445.8	480.5	545.8	660.9	796.7	864.0	778.4	662.9	574.5	514.3	474.0
65°	376.7	408.1	465.9	555.5	667.0	711.9	638.2	544.6	476.1	431.2	404.3
67.5°	313.7	340.4	390.2	460.8	542.8	575.5	519.4	447.0	395.3	359.3	337.9
70°	271.7	294.7	333.9	394.7	469.0	494.0	441.5	381.9	344.1	315.3	295.4
72.5°	236.3	253.2	288.7	335.7	397.8	417.7	381.0	328.6	293.3	271.7	255.9
75°	180.0	194.1	217.2	255.0	298.0	309.5	281.9	249.2	225.5	210.2	198.0
77.5°	129.8	140.2	156.9	180.2	209.9	220.3	202.8	181.1	163.8	153.4	146.6
80°	98.0	106.4	120.5	139.7	157.6	163.4	153.1	136.5	124.3	118.5	112.8
82.5°	72.4	77.1	85.6	98.7	111.0	117.8	109.1	99.1	92.5	87.2	85.1
85°	36.5	39.1	43.0	48.0	55.8	58.3	55.1	52.5	48.7	45.5	45.5
87.5°	13.7	14.0	15.8	17.1	19.5	21.4	21.2	20.5	20.3	19.9	19.5
90°	2.0	3.3	4.6	6.0	7.5	9.3	11.0	12.8	14.5	15.1	15.6
92.5°	15.6	16.5	17.4	18.3	19.2	20.2	21.3	22.3	23.2	23.6	24.1
95°	36.6	37.6	38.6	39.5	40.4	41.6	42.6	43.7	44.8	45.3	45.8
97.5°	64.1	64.8	65.6	66.2	66.9	67.8	68.5	69.3	70.1	70.7	71.3
100°	83.1	83.9	84.7	85.5	86.3	86.9	87.6	88.3	88.9	89.4	89.8
102.5°	104.6	105.1	105.5	106.0	106.7	107.6	108.5	109.3	110.2	110.6	111.0
105°	136.4	136.7	137.0	137.2	137.9	139.2	140.4	141.6	142.8	142.8	142.8
107.5°	173.6	173.7	173.9	174.1	174.4	174.9	175.4	175.9	176.3	176.8	177.2
110°	197.0	197.2	197.5	197.7	198.0	198.3	198.5	198.9	199.1	199.7	200.2





TEST NUMBER: P332217-930

CATALOG NUMBER: S123DIW-S1165D755U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	221.0	221.2	221.4	221.5	221.6	221.7	221.8	221.8	221.8	222.5	223.1
115°	257.6	258.0	258.4	258.8	258.9	258.6	258.4	258.0	257.8	258.0	258.0
117.5°	294.0	294.2	294.6	294.8	294.8	294.4	294.1	293.8	293.3	293.3	293.3
120°	317.3	318.1	318.9	319.8	319.8	319.1	318.5	317.8	317.1	317.0	316.8
122.5°	340.8	341.4	342.0	342.6	342.7	342.3	342.0	341.7	341.3	341.0	340.6
125°	376.8	377.2	377.6	378.1	378.1	377.8	377.6	377.2	377.0	376.5	375.9
127.5°	410.7	411.6	412.4	413.3	413.5	413.3	412.9	412.6	412.4	411.6	410.8
130°	433.2	434.2	435.3	436.3	436.8	436.3	435.9	435.5	435.1	434.6	434.1
132.5°	455.4	456.5	457.5	458.7	459.0	458.8	458.4	458.1	457.9	457.2	456.6
135°	489.2	490.0	490.8	491.5	492.0	491.8	491.6	491.5	491.4	490.8	490.3
137.5°	520.5	521.1	521.9	522.5	523.0	523.3	523.7	524.1	524.4	523.8	523.3
140°	542.3	543.0	543.6	544.3	544.7	544.9	544.9	545.1	545.3	545.1	544.9
142.5°	562.1	562.8	563.5	564.1	564.6	564.8	565.1	565.3	565.6	565.4	565.3
145°	592.7	593.0	593.2	593.5	593.9	594.3	594.7	595.1	595.5	595.3	595.2
147.5°	620.0	620.5	621.0	621.5	621.9	622.3	622.6	623.1	623.5	623.5	623.5
150°	638.7	639.0	639.3	639.5	639.8	640.0	640.3	640.6	640.8	640.8	640.8
152.5°	654.3	654.7	655.1	655.4	655.7	655.8	656.0	656.2	656.3	656.6	656.8
155°	678.4	678.4	678.4	678.4	678.4	678.6	678.7	678.8	679.0	679.6	680.0
157.5°	699.0	698.9	698.7	698.5	698.5	698.6	698.7	698.9	699.0	699.5	700.1
160°	712.0	711.8	711.4	711.2	711.0	711.0	711.0	711.0	711.0	711.8	712.4
162.5°	723.5	723.1	722.8	722.4	722.3	722.4	722.4	722.6	722.7	723.3	724.0
165°	738.5	738.1	737.7	737.3	737.0	737.0	737.0	737.0	737.0	737.8	738.7
167.5°	750.3	749.8	749.3	748.7	748.5	748.6	748.7	748.9	748.9	749.7	750.6
170°	757.1	756.6	756.0	755.5	755.2	755.2	755.2	755.2	755.2	756.2	757.1
172.5°	762.5	761.9	761.3	760.8	760.5	760.5	760.5	760.5	760.5	761.4	762.2
175°	768.0	767.4	767.0	766.4	766.1	766.1	766.1	766.1	766.1	767.0	767.8
177.5°	770.4	770.0	769.6	769.2	768.9	768.9	768.9	768.9	768.9	769.6	770.2
180°	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4



TEST NUMBER: P332217-930

CATALOG NUMBER: S123DIW-S1165D755U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5
2.5°	1391.7	1392.2	1397.9	1402.0	1400.0	1402.5	1403.5
5°	1520.5	1543.6	1555.8	1564.7	1565.4	1566.0	1571.2
7.5°	1703.2	1727.9	1746.0	1773.4	1781.6	1790.9	1788.2
10°	1836.5	1872.9	1904.4	1921.0	1938.9	1965.2	1944.1
12.5°	1961.0	2025.7	2073.5	2099.4	2116.3	2121.6	2111.2
15°	2166.4	2251.0	2296.5	2295.2	2352.9	2377.9	2338.8
17.5°	2354.8	2432.9	2495.4	2527.4	2575.4	2586.1	2581.2
20°	2470.1	2555.4	2604.1	2659.2	2684.1	2706.5	2710.4
22.5°	2569.6	2646.1	2698.4	2744.2	2765.2	2775.8	2782.2
25°	2672.0	2732.2	2763.6	2779.6	2785.4	2784.1	2775.8
27.5°	2664.9	2669.5	2635.0	2601.0	2570.6	2536.4	2524.6
30°	2595.7	2541.9	2445.8	2391.4	2311.2	2247.8	2273.4
32.5°	2413.8	2306.6	2198.7	2079.7	1981.1	1953.0	1924.8
35°	2060.0	1871.7	1761.5	1633.3	1582.0	1530.8	1495.5
37.5°	1666.6	1520.9	1390.2	1306.4	1255.0	1222.5	1205.2
40°	1441.0	1309.7	1202.1	1134.2	1095.0	1058.5	1053.4
42.5°	1261.2	1139.1	1058.0	1004.0	966.4	950.9	939.6
45°	1032.9	947.7	893.2	854.8	829.8	820.2	807.4
47.5°	874.2	814.0	773.1	747.0	728.1	721.0	720.0
50°	785.5	735.6	705.5	684.9	670.3	667.6	657.5
52.5°	718.9	675.6	652.2	634.2	623.6	616.4	613.3
55°	624.1	595.3	574.1	563.9	555.5	548.5	548.5
57.5°	546.1	522.0	508.0	499.3	496.7	491.7	488.5
60°	497.9	477.4	466.5	458.8	453.6	454.3	448.5
62.5°	450.7	437.4	427.0	419.3	413.2	413.3	413.7
65°	383.8	373.6	365.9	363.3	359.5	355.0	356.3
67.5°	325.2	315.6	309.7	305.2	303.9	301.6	305.2
70°	283.2	276.1	271.7	267.8	266.5	267.2	270.4
72.5°	244.8	239.8	236.8	235.1	232.2	232.4	234.5
75°	192.2	188.4	185.8	183.9	183.3	183.3	183.3
77.5°	141.2	140.3	139.2	136.3	136.5	137.2	137.4
80°	111.5	109.6	108.9	107.6	105.7	104.4	107.6
82.5°	83.3	81.4	80.7	80.5	77.5	77.3	80.0
85°	44.8	43.0	43.5	43.0	43.0	42.3	42.3
87.5°	19.1	18.8	18.3	18.8	18.4	17.9	19.0
90°	16.1	16.7	17.0	17.4	17.6	17.9	18.2
92.5°	24.5	24.9	25.1	24.9	24.8	24.6	24.5
95°	46.4	47.0	47.2	47.2	47.2	47.2	47.2
97.5°	71.9	72.6	72.8	72.8	72.7	72.6	72.6
100°	90.2	90.6	90.9	91.2	91.5	91.7	92.0
102.5°	111.5	111.9	112.0	112.0	111.9	111.9	111.9
105°	142.8	142.8	142.9	143.2	143.5	143.7	144.1
107.5°	177.7	178.1	178.2	178.1	177.9	177.7	177.6
110°	200.7	201.2	201.4	201.1	200.8	200.6	200.3



TEST NUMBER: P332217-930

CATALOG NUMBER: S123DIW-S1165D755U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	223.8	224.5	224.7	224.7	224.6	224.5	224.5
115°	258.2	258.4	258.4	258.2	258.0	258.0	257.8
117.5°	293.3	293.3	293.1	292.7	292.3	292.0	291.6
120°	316.7	316.6	316.3	316.1	315.8	315.5	315.3
122.5°	340.2	339.9	339.6	339.2	338.8	338.4	338.0
125°	375.4	374.9	374.3	373.8	373.2	372.7	372.2
127.5°	410.1	409.4	408.6	408.1	407.4	406.8	406.2
130°	433.5	432.9	432.2	431.3	430.3	429.4	428.4
132.5°	455.9	455.3	454.6	453.9	453.1	452.4	451.7
135°	489.8	489.3	488.9	488.5	488.3	488.0	487.7
137.5°	522.7	522.2	521.6	521.1	520.6	520.1	519.6
140°	544.9	544.7	544.1	543.2	542.3	541.4	540.4
142.5°	565.2	565.0	564.6	563.9	563.1	562.4	561.7
145°	595.1	594.9	594.6	594.0	593.5	593.0	592.5
147.5°	623.5	623.5	623.1	622.2	621.4	620.6	619.8
150°	640.8	640.8	640.4	639.6	638.9	638.1	637.2
152.5°	657.0	657.2	657.0	656.2	655.6	654.8	654.2
155°	680.6	681.1	680.9	680.0	679.1	678.1	677.2
157.5°	700.7	701.2	701.1	700.3	699.6	698.9	698.1
160°	713.1	713.7	713.8	713.3	712.7	712.2	711.7
162.5°	724.7	725.4	725.3	724.4	723.6	722.7	721.8
165°	739.5	740.3	740.2	739.3	738.3	737.4	736.5
167.5°	751.5	752.3	752.3	751.5	750.6	749.7	748.9
170°	758.1	759.0	759.0	758.1	757.1	756.2	755.2
172.5°	763.0	763.9	763.9	762.9	762.0	761.0	760.1
175°	768.5	769.3	769.3	768.3	767.4	766.5	765.5
177.5°	770.9	771.5	771.4	770.7	769.9	769.2	768.4
180°	770.4	770.4	770.4	770.4	770.4	770.4	770.4

(END OF REPORT)