

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: P332018-830

Luminaire Tested: **S123DIP-S1000D805U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332018-830  
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-S1000D805U830-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1000 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: 7023.0 lumens  
Efficiency: N/A  
Efficacy: 129.1 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: General Diffuse

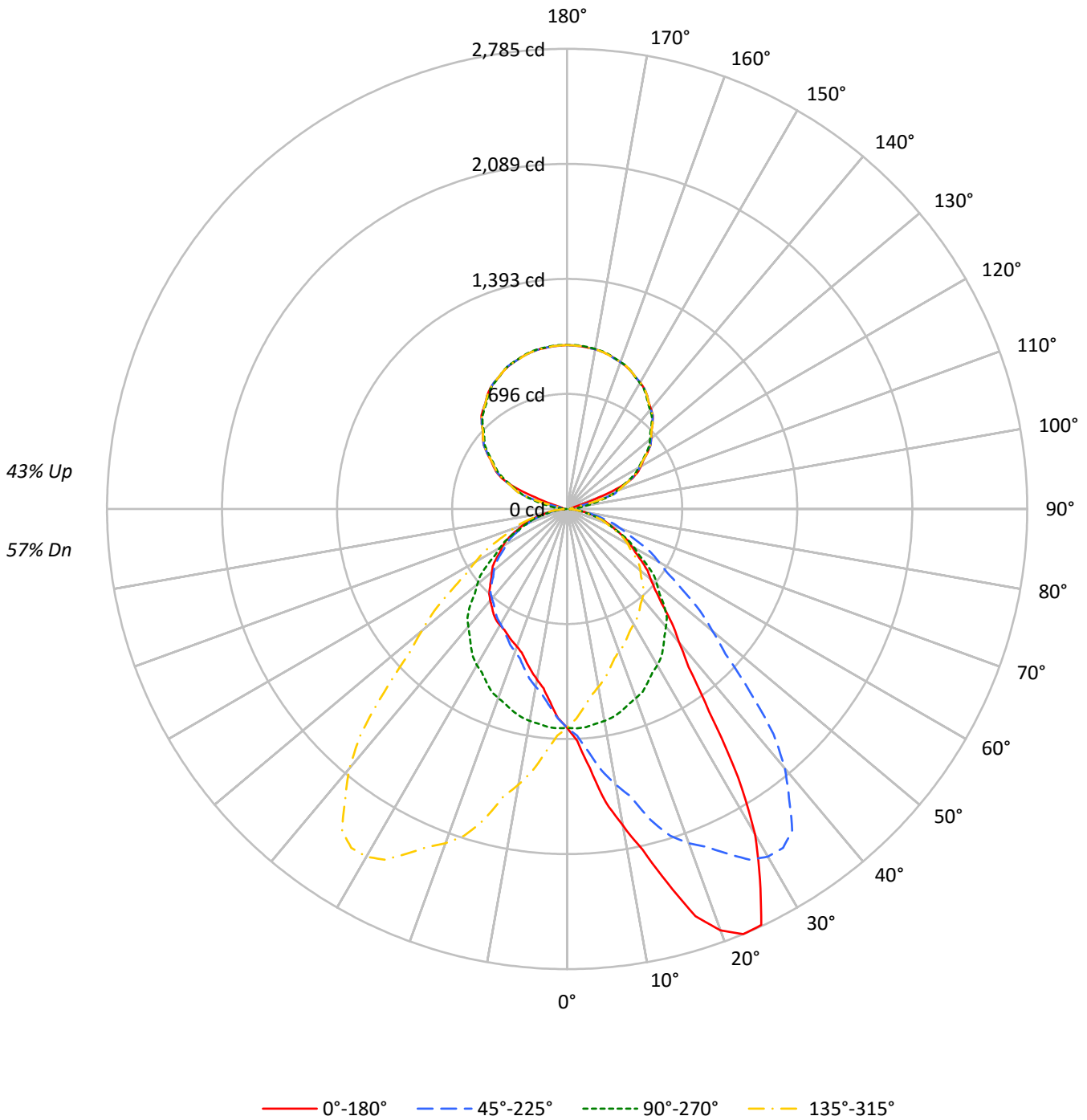
Input Watts (W): 54.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	57				
1	100	95	92	88	93	89	86	83	77	75	72	66	64	63	56	55	53	49				
2	91	84	78	72	84	78	73	68	68	64	60	58	55	53	49	47	45	41				
3	83	74	67	61	77	69	63	57	60	55	51	52	48	45	44	41	39	35				
4	76	65	58	52	71	61	54	49	54	48	44	46	42	39	39	36	34	30				
5	70	58	50	44	65	55	48	42	48	42	38	42	37	34	36	32	30	27				
6	65	53	44	39	60	49	42	37	43	38	33	38	33	30	32	29	26	23				
7	60	48	40	34	56	45	38	32	39	34	29	34	30	26	30	26	23	21				
8	56	43	35	30	52	41	34	29	36	30	26	31	27	23	27	24	21	19				
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17				
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17	15				

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

	0°	90°	180°	270°
0°	14249	14249	14249	14249
5°	16993	14311	12682	14311
10°	21270	14238	11455	14238
15°	26088	14123	10664	14123
20°	31078	13945	10153	13945
25°	32999	13726	10041	13726
30°	28285	13569	10092	13569
35°	19671	13341	10198	13341
40°	14816	13078	10166	13078
45°	12301	12683	10036	12683
50°	11020	11879	9945	11879
55°	10303	11012	9822	11012
60°	9664	10107	9722	10107
65°	9085	9212	9411	9212
70°	8519	8195	8960	8195
75°	7627	7178	8218	7178
80°	6676	5883	7073	5883
85°	5224	4273	4755	4273



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.4	1.9
10°-20°	418.2	6.0
20°-30°	701.8	10.0
30°-40°	794.6	11.3
40°-50°	712.6	10.1
50°-60°	575.1	8.2
60°-70°	400.7	5.7
70°-80°	210.6	3.0
80°-90°	54.3	0.8
90°-100°	36.1	0.5
100°-110°	171.9	2.4
110°-120°	412.8	5.9
120°-130°	525.7	7.5
130°-140°	561.7	8.0
140°-150°	525.2	7.5
150°-160°	423.7	6.0
160°-170°	273.4	3.9
170°-180°	94.2	1.3
0°-30°	1250.4	17.8
0°-40°	2045.0	29.1
0°-60°	3332.7	47.5
0°-90°	3998.4	56.9
90°-120°	620.7	8.8
90°-150°	2233.3	31.8
90°-180°	3025.0	43.1
0°-180°	7023.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1324	1324	1324	1324	1324	
5°	1573	1324	1174	1324	1573	163
15°	2341	1267	957	1267	2341	676
25°	2778	1156	845	1156	2778	1219
35°	1497	1015	776	1015	1497	973
45°	808	833	659	833	808	640
55°	549	587	523	587	549	493
65°	357	362	370	362	357	355
75°	183	173	198	173	183	196
85°	42	35	38	35	42	51
90°	22	1	22	1	22	12
95°	28	45	28	45	28	23
105°	32	220	32	220	32	74
115°	433	412	433	412	433	400
125°	592	581	592	581	592	529
135°	730	723	730	723	730	563
145°	842	834	842	834	842	526
155°	917	919	917	919	917	423
165°	967	969	967	969	967	273
175°	988	992	988	992	988	94
180°	992	992	992	992	992	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1404.9	1403.9	1401.3	1403.4	1399.3	1393.6	1393.1	1388.0	1373.1	1372.1	1368.0
5°	1572.7	1567.5	1566.9	1566.3	1557.3	1545.1	1522.0	1520.1	1489.3	1473.9	1455.3
7.5°	1790.0	1792.7	1783.3	1775.1	1747.7	1729.6	1704.8	1673.1	1635.3	1596.9	1571.4
10°	1946.0	1967.2	1940.9	1922.9	1906.2	1874.8	1838.2	1792.7	1747.2	1693.9	1653.5
12.5°	2113.3	2123.6	2118.4	2101.5	2075.6	2027.7	1962.9	1912.8	1870.9	1782.2	1746.3
15°	2341.1	2380.2	2355.2	2297.4	2298.8	2253.2	2168.5	2075.6	2026.2	1948.5	1842.8
17.5°	2583.8	2588.7	2578.0	2529.9	2497.8	2435.2	2357.1	2267.9	2167.9	2074.0	1961.8
20°	2713.1	2709.2	2686.8	2661.7	2606.6	2557.9	2472.6	2373.1	2244.9	2152.5	2030.0
22.5°	2784.9	2778.5	2767.9	2746.9	2701.0	2648.7	2572.1	2463.4	2341.4	2214.1	2072.6
25°	2778.5	2786.8	2788.1	2782.4	2766.4	2734.9	2674.6	2588.0	2466.2	2302.6	2155.1
27.5°	2527.1	2538.9	2573.1	2603.6	2637.5	2672.2	2667.6	2624.6	2534.4	2393.1	2212.8
30°	2275.7	2250.0	2313.5	2393.7	2448.2	2544.4	2598.3	2601.5	2550.8	2429.6	2253.8
32.5°	1926.7	1954.9	1983.0	2081.7	2200.8	2308.9	2416.1	2502.5	2512.3	2431.7	2277.9
35°	1497.0	1532.3	1583.6	1634.9	1763.2	1873.5	2062.1	2226.3	2357.1	2374.5	2280.1
37.5°	1206.4	1223.8	1256.2	1307.7	1391.6	1522.4	1668.3	1875.8	2065.4	2206.4	2212.5
40°	1054.4	1059.6	1096.2	1135.3	1203.2	1311.0	1442.5	1625.9	1852.9	2049.9	2132.0
42.5°	940.6	951.8	967.3	1004.9	1059.0	1140.1	1262.3	1414.0	1622.1	1848.7	2009.3
45°	808.1	821.0	830.6	855.6	894.1	948.6	1034.0	1172.4	1330.9	1565.0	1781.1
47.5°	720.7	721.7	728.9	747.7	773.9	814.8	875.2	964.1	1109.6	1299.5	1521.4
50°	658.1	668.4	670.9	685.6	706.2	736.3	786.4	862.0	981.4	1148.1	1352.1
52.5°	614.0	617.0	624.2	634.9	652.8	676.3	719.6	778.9	872.5	1014.6	1202.2
55°	549.0	549.0	556.1	564.4	574.7	595.9	624.7	668.4	739.5	849.9	1005.0
57.5°	489.0	492.2	497.2	499.7	508.5	522.5	546.6	579.7	632.8	717.7	841.1
60°	448.9	454.8	454.1	459.2	466.9	477.9	498.3	525.3	572.8	640.7	744.7
62.5°	414.1	413.7	413.6	419.7	427.4	437.8	451.2	474.5	514.8	575.0	663.5
65°	356.7	355.3	359.9	363.6	366.3	373.9	384.2	404.7	431.7	476.5	545.2
67.5°	305.6	301.8	304.3	305.6	309.9	315.9	325.6	338.3	359.7	395.8	447.4
70°	270.7	267.5	266.8	268.1	271.9	276.4	283.5	295.7	315.6	344.4	382.3
72.5°	234.8	232.5	232.4	235.3	237.0	240.0	245.0	256.2	271.9	293.6	328.9
75°	183.4	183.4	183.4	184.1	186.0	188.6	192.4	198.2	210.4	225.7	249.5
77.5°	137.5	137.4	136.6	136.5	139.3	140.4	141.4	146.8	153.5	163.9	181.3
80°	107.7	104.5	105.8	107.7	109.1	109.7	111.6	112.9	118.7	124.4	136.6
82.5°	80.0	77.4	77.6	80.6	80.8	81.4	83.4	85.2	87.4	92.7	99.2
85°	42.3	42.3	43.0	43.0	43.6	43.0	44.9	45.5	45.5	48.7	52.6
87.5°	19.8	18.8	19.1	19.6	19.0	19.4	19.8	20.3	20.6	21.0	21.1
90°	22.1	21.8	21.5	21.1	20.8	20.3	19.6	19.0	18.4	17.7	15.6
92.5°	24.5	24.2	24.0	23.8	23.7	23.1	22.0	20.9	19.9	18.9	17.2
95°	28.0	28.0	28.0	28.0	28.0	27.4	26.3	25.2	24.0	22.8	21.0
97.5°	30.3	30.2	30.1	29.9	29.7	28.9	27.6	26.4	25.1	23.8	35.5
100°	30.9	30.8	30.6	30.4	30.3	29.6	28.3	27.0	25.6	24.3	49.9
102.5°	31.6	31.2	30.9	30.6	30.3	32.2	36.3	40.3	44.4	48.4	76.3
105°	32.4	32.1	31.8	31.5	31.1	45.4	74.5	103.4	132.4	161.4	176.1
107.5°	101.8	123.7	145.5	167.4	189.2	210.8	232.1	253.3	274.6	295.8	293.4
110°	202.6	226.0	249.5	272.9	296.3	310.8	316.1	321.5	327.0	332.3	330.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	347.7	352.6	357.5	362.5	367.4	369.9	369.8	369.7	369.6	369.5	367.7
115°	433.3	432.6	432.0	431.3	430.6	429.5	427.9	426.2	424.6	423.0	421.5
117.5°	481.4	481.2	481.1	481.0	480.8	480.0	478.8	477.5	476.2	474.9	474.1
120°	514.3	514.3	514.3	514.3	514.3	513.7	512.4	511.0	509.7	508.4	507.9
122.5°	546.8	546.7	546.5	546.4	546.2	545.7	544.8	543.8	543.0	542.1	541.4
125°	592.5	592.1	591.8	591.4	591.2	590.8	590.5	590.1	589.8	589.5	588.8
127.5°	636.4	636.7	637.1	637.3	637.6	637.5	637.1	636.5	636.0	635.5	634.7
130°	664.7	665.0	665.3	665.6	666.0	665.8	665.2	664.5	663.8	663.2	662.5
132.5°	690.6	691.1	691.5	692.0	692.4	692.3	691.6	691.0	690.4	689.8	689.2
135°	730.3	730.8	731.2	731.7	732.2	732.2	731.7	731.2	730.8	730.3	729.6
137.5°	767.5	767.9	768.2	768.5	768.8	768.6	767.8	767.0	766.3	765.4	765.1
140°	789.9	790.2	790.6	790.9	791.3	791.1	790.4	789.8	789.1	788.4	788.0
142.5°	810.6	811.1	811.4	811.9	812.4	812.4	811.8	811.3	810.8	810.3	809.7
145°	842.3	842.3	842.3	842.3	842.3	842.1	841.8	841.4	841.1	840.7	840.5
147.5°	865.8	866.6	867.3	868.1	868.8	869.0	868.7	868.4	868.1	867.7	867.4
150°	883.5	884.0	884.5	885.0	885.5	885.5	885.2	884.9	884.6	884.3	883.9
152.5°	897.7	898.4	899.2	899.9	900.7	900.8	900.1	899.6	899.0	898.4	898.2
155°	917.4	918.4	919.4	920.4	921.3	921.4	920.6	919.8	919.0	918.1	917.9
157.5°	934.1	935.4	936.6	937.9	939.1	939.3	938.3	937.4	936.4	935.4	935.6
160°	944.7	945.8	947.0	948.1	949.2	949.3	948.4	947.3	946.4	945.4	945.6
162.5°	954.7	955.7	956.7	957.7	958.8	958.7	957.6	956.5	955.4	954.2	954.4
165°	966.8	967.9	969.0	970.3	971.4	971.3	970.0	968.7	967.3	966.0	966.2
167.5°	975.4	976.8	978.1	979.4	980.7	980.7	979.4	978.1	976.8	975.4	975.4
170°	980.8	982.1	983.4	984.7	986.0	986.0	984.7	983.4	982.1	980.8	980.8
172.5°	983.7	985.1	986.7	988.1	989.5	989.6	988.3	986.9	985.6	984.3	984.2
175°	988.2	989.5	990.8	992.1	993.3	993.4	992.3	991.2	990.0	988.9	988.7
177.5°	989.5	990.8	992.1	993.4	994.8	994.9	993.8	992.8	991.7	990.6	990.5
180°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1364.9	1360.7	1356.7	1349.5	1343.3	1334.6	1332.0	1329.0	1319.7	1311.5	1305.3
5°	1448.2	1432.9	1410.4	1389.9	1373.2	1350.8	1337.9	1324.5	1305.2	1287.9	1273.8
7.5°	1535.5	1505.2	1470.4	1432.6	1397.5	1363.6	1336.2	1311.9	1285.0	1259.4	1239.5
10°	1604.8	1561.1	1512.4	1459.8	1414.9	1371.3	1334.7	1302.7	1268.0	1237.8	1212.9
12.5°	1683.8	1619.1	1551.9	1488.0	1434.9	1374.4	1330.1	1289.3	1250.1	1213.8	1185.7
15°	1777.3	1695.2	1615.7	1527.8	1447.0	1371.3	1318.7	1267.4	1221.8	1184.7	1148.8
17.5°	1862.5	1769.4	1664.6	1557.8	1460.3	1370.6	1296.9	1238.9	1181.9	1136.4	1100.6
20°	1910.7	1804.9	1686.2	1575.3	1467.5	1367.4	1286.7	1217.4	1155.7	1107.7	1067.2
22.5°	1952.3	1828.4	1705.7	1587.1	1467.0	1359.2	1267.6	1196.4	1129.6	1082.5	1039.5
25°	1995.4	1847.2	1724.1	1584.9	1450.9	1339.3	1236.6	1155.7	1089.1	1034.0	989.7
27.5°	2032.3	1846.0	1699.8	1550.1	1425.4	1313.5	1204.0	1117.3	1046.5	986.6	941.7
30°	2056.9	1848.5	1674.7	1526.5	1400.8	1285.3	1178.8	1091.7	1017.3	956.3	914.0
32.5°	2072.4	1846.9	1651.6	1493.6	1361.8	1259.7	1151.7	1061.4	985.0	925.0	884.2
35°	2081.3	1835.7	1611.8	1425.8	1298.8	1199.4	1109.0	1015.3	935.2	879.4	833.2
37.5°	2063.3	1811.9	1565.7	1360.4	1221.3	1123.4	1047.4	967.6	890.9	829.4	789.7
40°	2035.1	1796.6	1529.7	1314.2	1168.0	1073.7	1008.9	930.7	855.0	796.6	759.4
42.5°	1981.2	1765.2	1490.3	1262.9	1112.6	1018.2	958.7	893.2	821.6	766.9	729.6
45°	1849.7	1697.1	1431.0	1185.9	1030.7	933.2	880.6	833.2	768.4	715.1	683.1
47.5°	1667.4	1594.6	1345.3	1104.8	945.3	851.5	796.8	758.7	711.3	668.4	637.5
50°	1540.6	1510.5	1287.2	1049.3	888.3	796.6	744.0	709.4	675.4	632.4	604.2
52.5°	1394.4	1413.0	1219.6	991.8	830.4	740.2	690.7	663.2	632.3	597.0	572.4
55°	1188.5	1255.8	1102.6	895.4	744.0	658.1	611.2	586.8	568.9	542.6	521.4
57.5°	995.7	1081.4	976.1	796.0	659.2	585.0	540.2	513.6	502.1	488.3	471.6
60°	881.3	965.9	885.8	729.2	602.3	531.7	491.9	469.5	458.0	448.4	434.2
62.5°	779.2	864.9	797.5	661.6	546.3	480.9	446.3	424.3	415.4	410.4	398.3
65°	638.9	712.6	667.7	556.1	466.3	408.6	377.1	361.7	353.5	351.5	343.7
67.5°	519.9	576.1	543.4	461.3	390.6	340.7	314.1	301.0	294.5	293.9	288.1
70°	442.0	494.6	469.5	395.1	334.1	295.0	271.9	260.4	256.6	255.9	252.7
72.5°	381.4	418.0	398.1	336.1	289.0	253.4	236.6	224.5	220.1	221.0	218.9
75°	282.2	309.8	298.2	255.2	217.4	194.4	180.2	172.6	168.7	170.6	168.1
77.5°	203.0	220.6	210.1	180.4	157.0	140.3	130.0	125.2	121.8	121.6	120.5
80°	153.3	163.5	157.8	139.8	120.6	106.5	98.1	94.9	93.0	92.4	91.7
82.5°	109.1	117.9	111.1	98.8	85.7	77.2	72.5	68.2	66.8	67.2	66.5
85°	55.1	58.3	55.8	48.1	43.0	39.1	36.6	34.6	33.4	34.0	32.7
87.5°	21.7	21.8	19.8	17.3	16.0	14.1	13.9	12.4	11.8	12.1	11.9
90°	13.4	11.3	9.1	7.3	5.7	4.1	2.4	0.8	2.4	4.1	5.7
92.5°	15.6	14.0	12.4	11.9	12.3	12.8	13.3	13.7	13.3	12.8	12.3
95°	19.2	17.4	15.6	18.1	24.8	31.5	38.3	45.0	38.3	31.5	24.8
97.5°	47.3	59.1	70.9	78.3	81.3	84.4	87.4	90.3	87.4	84.4	81.3
100°	75.4	100.9	126.5	137.6	134.3	131.1	127.8	124.5	127.8	131.1	134.3
102.5°	104.2	132.2	160.1	172.9	170.5	168.1	165.8	163.4	165.8	168.1	170.5
105°	190.9	205.6	220.4	226.8	225.0	223.2	221.4	219.6	221.4	223.2	225.0
107.5°	291.2	288.8	286.4	284.6	283.1	281.7	280.3	278.8	280.3	281.7	283.1
110°	328.8	327.0	325.1	323.6	322.3	320.9	319.6	318.3	319.6	320.9	322.3





TEST NUMBER: P332018-830

CATALOG NUMBER: S123DIP-S1000D805U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	365.9	364.1	362.2	360.8	359.6	358.4	357.2	356.1	357.2	358.4	359.6
115°	420.0	418.6	417.1	415.8	414.9	413.9	412.9	411.9	412.9	413.9	414.9
117.5°	473.3	472.6	471.8	470.8	469.7	468.4	467.2	466.0	467.2	468.4	469.7
120°	507.5	507.0	506.5	505.5	504.0	502.6	501.1	499.6	501.1	502.6	504.0
122.5°	540.8	540.2	539.5	538.7	537.4	536.2	535.0	533.8	535.0	536.2	537.4
125°	588.1	587.6	586.9	585.9	584.6	583.2	581.9	580.7	581.9	583.2	584.6
127.5°	634.0	633.1	632.4	631.3	630.0	628.7	627.4	626.0	627.4	628.7	630.0
130°	661.9	661.2	660.5	659.6	658.3	657.0	655.6	654.3	655.6	657.0	658.3
132.5°	688.6	688.2	687.6	686.7	685.4	684.1	682.8	681.5	682.8	684.1	685.4
135°	729.0	728.3	727.6	726.8	725.9	724.8	723.9	722.8	723.9	724.8	725.9
137.5°	764.8	764.4	764.0	763.2	762.0	760.7	759.5	758.3	759.5	760.7	762.0
140°	787.5	787.0	786.5	785.8	784.8	783.8	782.8	781.8	782.8	783.8	784.8
142.5°	809.3	808.8	808.3	807.6	806.6	805.6	804.6	803.6	804.6	805.6	806.6
145°	840.1	839.8	839.4	838.8	837.5	836.4	835.3	834.2	835.3	836.4	837.5
147.5°	867.0	866.8	866.5	865.9	865.2	864.4	863.7	862.9	863.7	864.4	865.2
150°	883.6	883.3	883.0	882.5	882.0	881.6	881.1	880.5	881.1	881.6	882.0
152.5°	898.0	897.8	897.6	897.4	897.2	896.9	896.7	896.5	896.7	896.9	897.2
155°	917.8	917.7	917.5	917.6	917.9	918.2	918.6	918.9	918.6	918.2	917.9
157.5°	935.8	935.9	936.0	936.1	936.1	936.2	936.2	936.2	936.2	936.2	936.1
160°	945.7	945.9	946.0	946.2	946.4	946.6	946.7	946.9	946.7	946.6	946.4
162.5°	954.6	954.7	954.9	955.2	955.6	956.0	956.5	956.9	956.5	956.0	955.6
165°	966.4	966.6	966.7	967.0	967.5	968.0	968.5	969.0	968.5	968.0	967.5
167.5°	975.4	975.4	975.4	975.8	976.5	977.1	977.8	978.5	977.8	977.1	976.5
170°	980.8	980.8	980.8	981.1	981.8	982.4	983.1	983.7	983.1	982.4	981.8
172.5°	984.0	983.9	983.8	984.1	984.9	985.7	986.5	987.2	986.5	985.7	984.9
175°	988.5	988.4	988.3	988.5	989.4	990.2	991.0	991.8	991.0	990.2	989.4
177.5°	990.4	990.2	990.1	990.4	991.1	991.7	992.4	993.0	992.4	991.7	991.1
180°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8



TEST NUMBER: P332018-830

CATALOG NUMBER: S123DIP-S1000D805U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1301.7	1298.2	1293.1	1285.3	1279.2	1269.4	1269.4	1271.0	1271.0	1270.5	1269.4
5°	1262.3	1252.6	1241.1	1227.7	1213.5	1199.4	1196.8	1191.8	1187.9	1185.2	1182.0
7.5°	1220.6	1203.5	1186.7	1167.8	1150.7	1136.4	1126.5	1118.3	1113.0	1107.4	1103.3
10°	1192.3	1171.2	1151.3	1131.4	1109.6	1092.3	1081.4	1073.7	1067.9	1062.8	1060.3
12.5°	1159.0	1134.7	1112.9	1093.9	1070.1	1052.3	1041.9	1038.3	1031.5	1020.7	1015.0
15°	1110.2	1087.8	1061.5	1032.6	1021.1	999.3	987.1	981.4	977.5	969.1	966.6
17.5°	1068.6	1039.2	1009.7	988.2	966.7	949.0	942.2	935.0	929.9	923.1	921.1
20°	1035.2	1008.9	981.9	958.8	936.4	917.2	911.4	906.3	901.2	898.0	895.4
22.5°	1001.4	975.1	952.7	931.1	907.2	894.6	888.3	882.7	879.1	876.9	874.3
25°	953.8	930.7	905.7	886.4	867.1	858.8	855.0	851.8	849.2	846.0	845.4
27.5°	911.2	886.0	865.7	847.8	834.0	827.0	823.3	821.7	822.3	823.4	824.2
30°	879.4	856.3	839.6	824.2	811.3	804.9	804.3	804.3	806.9	807.5	808.8
32.5°	850.1	831.1	814.5	799.6	789.9	785.4	787.9	787.9	789.9	791.6	793.9
35°	807.5	790.8	778.0	765.2	756.9	758.7	760.1	761.3	764.5	768.4	771.0
37.5°	766.9	752.3	739.0	729.0	725.2	728.6	731.7	734.4	738.1	741.0	743.7
40°	737.6	726.7	713.9	704.9	706.2	708.1	710.7	713.9	717.1	719.0	721.6
42.5°	710.4	699.0	689.3	681.8	683.6	686.1	687.6	689.3	693.0	696.4	698.0
45°	669.0	660.0	651.0	646.5	647.8	649.1	650.4	652.3	655.5	658.1	658.7
47.5°	622.4	616.1	610.1	605.8	607.8	607.3	609.0	613.0	614.1	615.6	619.2
50°	592.7	586.8	579.9	578.5	578.5	578.5	579.2	584.3	584.3	586.8	589.5
52.5°	559.8	556.1	551.6	549.3	548.3	548.3	550.9	553.6	554.6	558.2	560.7
55°	511.2	507.4	503.5	501.5	500.3	501.5	506.7	507.9	511.2	513.1	515.0
57.5°	460.5	457.6	454.5	453.5	453.2	454.9	457.7	461.6	462.3	468.3	471.2
60°	427.2	422.6	420.1	420.1	418.9	424.6	423.3	429.7	431.0	434.9	439.3
62.5°	392.8	386.7	385.7	385.7	387.6	389.2	391.0	393.8	397.2	402.0	405.5
65°	337.3	334.1	338.7	338.0	336.8	340.5	340.5	343.7	347.6	352.1	359.2
67.5°	284.9	283.2	283.6	283.6	285.6	287.8	289.5	292.4	297.0	301.7	306.3
70°	249.5	251.5	248.3	250.8	252.7	253.4	254.7	258.4	263.6	266.8	271.9
72.5°	215.1	215.0	215.4	216.4	218.3	219.5	220.7	225.2	230.7	233.5	237.6
75°	165.5	164.9	166.7	166.7	169.9	171.3	172.6	174.5	179.6	183.4	186.6
77.5°	120.8	121.6	121.2	123.4	122.5	122.7	126.8	128.7	129.2	136.8	138.5
80°	91.0	92.4	93.0	93.7	94.3	93.0	97.5	99.4	99.4	103.9	107.1
82.5°	65.4	66.2	67.9	68.5	68.6	69.9	70.3	71.7	73.2	75.2	79.4
85°	32.7	34.6	35.3	34.6	35.3	34.0	35.9	36.6	37.2	37.2	37.2
87.5°	11.7	12.6	12.5	13.5	13.4	14.3	14.4	13.6	13.7	15.4	13.4
90°	7.3	9.1	11.3	13.4	15.6	17.7	18.4	19.0	19.6	20.3	20.8
92.5°	11.9	12.4	14.0	15.6	17.2	18.9	19.9	20.9	22.0	23.1	23.7
95°	18.1	15.6	17.4	19.2	21.0	22.8	24.0	25.2	26.3	27.4	28.0
97.5°	78.3	70.9	59.1	47.3	35.5	23.8	25.1	26.4	27.6	28.9	29.7
100°	137.6	126.5	100.9	75.4	49.9	24.3	25.6	27.0	28.3	29.6	30.3
102.5°	172.9	160.1	132.2	104.2	76.3	48.4	44.4	40.3	36.3	32.2	30.3
105°	226.8	220.4	205.6	190.9	176.1	161.4	132.4	103.4	74.5	45.4	31.1
107.5°	284.6	286.4	288.8	291.2	293.4	295.8	274.6	253.3	232.1	210.8	189.2
110°	323.6	325.1	327.0	328.8	330.5	332.3	327.0	321.5	316.1	310.8	296.3



TEST NUMBER: P332018-830

CATALOG NUMBER: S123DIP-S1000D805U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	360.8	362.2	364.1	365.9	367.7	369.5	369.6	369.7	369.8	369.9	367.4
115°	415.8	417.1	418.6	420.0	421.5	423.0	424.6	426.2	427.9	429.5	430.6
117.5°	470.8	471.8	472.6	473.3	474.1	474.9	476.2	477.5	478.8	480.0	480.8
120°	505.5	506.5	507.0	507.5	507.9	508.4	509.7	511.0	512.4	513.7	514.3
122.5°	538.7	539.5	540.2	540.8	541.4	542.1	543.0	543.8	544.8	545.7	546.2
125°	585.9	586.9	587.6	588.1	588.8	589.5	589.8	590.1	590.5	590.8	591.2
127.5°	631.3	632.4	633.1	634.0	634.7	635.5	636.0	636.5	637.1	637.5	637.6
130°	659.6	660.5	661.2	661.9	662.5	663.2	663.8	664.5	665.2	665.8	666.0
132.5°	686.7	687.6	688.2	688.6	689.2	689.8	690.4	691.0	691.6	692.3	692.4
135°	726.8	727.6	728.3	729.0	729.6	730.3	730.8	731.2	731.7	732.2	732.2
137.5°	763.2	764.0	764.4	764.8	765.1	765.4	766.3	767.0	767.8	768.6	768.8
140°	785.8	786.5	787.0	787.5	788.0	788.4	789.1	789.8	790.4	791.1	791.3
142.5°	807.6	808.3	808.8	809.3	809.7	810.3	810.8	811.3	811.8	812.4	812.4
145°	838.8	839.4	839.8	840.1	840.5	840.7	841.1	841.4	841.8	842.1	842.3
147.5°	865.9	866.5	866.8	867.0	867.4	867.7	868.1	868.4	868.7	869.0	868.8
150°	882.5	883.0	883.3	883.6	883.9	884.3	884.6	884.9	885.2	885.5	885.5
152.5°	897.4	897.6	897.8	898.0	898.2	898.4	899.0	899.6	900.1	900.8	900.7
155°	917.6	917.5	917.7	917.8	917.9	918.1	919.0	919.8	920.6	921.4	921.3
157.5°	936.1	936.0	935.9	935.8	935.6	935.4	936.4	937.4	938.3	939.3	939.1
160°	946.2	946.0	945.9	945.7	945.6	945.4	946.4	947.3	948.4	949.3	949.2
162.5°	955.2	954.9	954.7	954.6	954.4	954.2	955.4	956.5	957.6	958.7	958.8
165°	967.0	966.7	966.6	966.4	966.2	966.0	967.3	968.7	970.0	971.3	971.4
167.5°	975.8	975.4	975.4	975.4	975.4	975.4	976.8	978.1	979.4	980.7	980.7
170°	981.1	980.8	980.8	980.8	980.8	980.8	982.1	983.4	984.7	986.0	986.0
172.5°	984.1	983.8	983.9	984.0	984.2	984.3	985.6	986.9	988.3	989.6	989.5
175°	988.5	988.3	988.4	988.5	988.7	988.9	990.0	991.2	992.3	993.4	993.3
177.5°	990.4	990.1	990.2	990.4	990.5	990.6	991.7	992.8	993.8	994.9	994.8
180°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8



TEST NUMBER: P332018-830

CATALOG NUMBER: S123DIP-S1000D805U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1265.8	1265.4	1268.9	1266.4	1268.9	1265.4	1265.8	1269.4	1270.5	1271.0	1271.0
5°	1178.3	1180.2	1173.7	1173.7	1173.7	1180.2	1178.3	1182.0	1185.2	1187.9	1191.8
7.5°	1100.2	1097.4	1097.7	1094.2	1097.7	1097.4	1100.2	1103.3	1107.4	1113.0	1118.3
10°	1052.5	1048.7	1047.4	1048.0	1047.4	1048.7	1052.5	1060.3	1062.8	1067.9	1073.7
12.5°	1013.0	1012.3	1003.8	1003.9	1003.8	1012.3	1013.0	1015.0	1020.7	1031.5	1038.3
15°	966.6	954.4	953.1	957.0	953.1	954.4	966.6	966.6	969.1	977.5	981.4
17.5°	920.0	913.6	914.0	912.1	914.0	913.6	920.0	921.1	923.1	929.9	935.0
20°	895.4	891.6	890.9	886.4	890.9	891.6	895.4	895.4	898.0	901.2	906.3
22.5°	872.8	871.6	871.9	867.0	871.9	871.6	872.8	874.3	876.9	879.1	882.7
25°	844.7	847.9	845.4	845.4	845.4	847.9	844.7	845.4	846.0	849.2	851.8
27.5°	825.8	825.6	824.3	824.3	824.3	825.6	825.8	824.2	823.4	822.3	821.7
30°	811.3	810.7	812.0	812.0	812.0	810.7	811.3	808.8	807.5	806.9	804.3
32.5°	797.0	797.9	798.1	798.6	798.1	797.9	797.0	793.9	791.6	789.9	787.9
35°	774.8	775.4	777.4	776.1	777.4	775.4	774.8	771.0	768.4	764.5	761.3
37.5°	744.8	747.7	747.1	748.1	747.1	747.7	744.8	743.7	741.0	738.1	734.4
40°	722.2	724.2	723.5	723.5	723.5	724.2	722.2	721.6	719.0	717.1	713.9
42.5°	699.1	700.5	698.9	697.9	698.9	700.5	699.1	698.0	696.4	693.0	689.3
45°	661.3	660.0	661.9	659.3	661.9	660.0	661.3	658.7	658.1	655.5	652.3
47.5°	619.0	620.2	620.8	622.6	620.8	620.2	619.0	619.2	615.6	614.1	613.0
50°	590.7	594.6	594.6	593.9	594.6	594.6	590.7	589.5	586.8	584.3	584.3
52.5°	563.0	564.8	567.4	567.2	567.4	564.8	563.0	560.7	558.2	554.6	553.6
55°	520.2	521.4	522.7	523.4	522.7	521.4	520.2	515.0	513.1	511.2	507.9
57.5°	475.8	475.2	478.3	479.3	478.3	475.2	475.8	471.2	468.3	462.3	461.6
60°	444.5	444.5	449.6	451.6	449.6	444.5	444.5	439.3	434.9	431.0	429.7
62.5°	411.1	413.2	418.3	415.7	418.3	413.2	411.1	405.5	402.0	397.2	393.8
65°	362.4	367.5	366.8	369.5	366.8	367.5	362.4	359.2	352.1	347.6	343.7
67.5°	311.4	314.6	319.2	319.7	319.2	314.6	311.4	306.3	301.7	297.0	292.4
70°	277.1	280.3	282.9	284.7	282.9	280.3	277.1	271.9	266.8	263.6	258.4
72.5°	243.7	245.4	251.6	248.8	251.6	245.4	243.7	237.6	233.5	230.7	225.2
75°	191.1	195.6	199.4	197.6	199.4	195.6	191.1	186.6	183.4	179.6	174.5
77.5°	141.4	145.8	147.6	146.0	147.6	145.8	141.4	138.5	136.8	129.2	128.7
80°	111.6	110.9	114.8	114.1	114.8	110.9	111.6	107.1	103.9	99.4	99.4
82.5°	81.8	81.2	83.0	83.4	83.0	81.2	81.8	79.4	75.2	73.2	71.7
85°	39.8	41.7	39.1	38.5	39.1	41.7	39.8	37.2	37.2	37.2	36.6
87.5°	13.5	13.6	13.1	12.6	13.1	13.6	13.5	13.4	15.4	13.7	13.6
90°	21.1	21.5	21.8	22.1	21.8	21.5	21.1	20.8	20.3	19.6	19.0
92.5°	23.8	24.0	24.2	24.5	24.2	24.0	23.8	23.7	23.1	22.0	20.9
95°	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	27.4	26.3	25.2
97.5°	29.9	30.1	30.2	30.3	30.2	30.1	29.9	29.7	28.9	27.6	26.4
100°	30.4	30.6	30.8	30.9	30.8	30.6	30.4	30.3	29.6	28.3	27.0
102.5°	30.6	30.9	31.2	31.6	31.2	30.9	30.6	30.3	32.2	36.3	40.3
105°	31.5	31.8	32.1	32.4	32.1	31.8	31.5	31.1	45.4	74.5	103.4
107.5°	167.4	145.5	123.7	101.8	123.7	145.5	167.4	189.2	210.8	232.1	253.3
110°	272.9	249.5	226.0	202.6	226.0	249.5	272.9	296.3	310.8	316.1	321.5



TEST NUMBER: P332018-830

CATALOG NUMBER: S123DIP-S1000D805U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	362.5	357.5	352.6	347.7	352.6	357.5	362.5	367.4	369.9	369.8	369.7
115°	431.3	432.0	432.6	433.3	432.6	432.0	431.3	430.6	429.5	427.9	426.2
117.5°	481.0	481.1	481.2	481.4	481.2	481.1	481.0	480.8	480.0	478.8	477.5
120°	514.3	514.3	514.3	514.3	514.3	514.3	514.3	514.3	513.7	512.4	511.0
122.5°	546.4	546.5	546.7	546.8	546.7	546.5	546.4	546.2	545.7	544.8	543.8
125°	591.4	591.8	592.1	592.5	592.1	591.8	591.4	591.2	590.8	590.5	590.1
127.5°	637.3	637.1	636.7	636.4	636.7	637.1	637.3	637.6	637.5	637.1	636.5
130°	665.6	665.3	665.0	664.7	665.0	665.3	665.6	666.0	665.8	665.2	664.5
132.5°	692.0	691.5	691.1	690.6	691.1	691.5	692.0	692.4	692.3	691.6	691.0
135°	731.7	731.2	730.8	730.3	730.8	731.2	731.7	732.2	732.2	731.7	731.2
137.5°	768.5	768.2	767.9	767.5	767.9	768.2	768.5	768.8	768.6	767.8	767.0
140°	790.9	790.6	790.2	789.9	790.2	790.6	790.9	791.3	791.1	790.4	789.8
142.5°	811.9	811.4	811.1	810.6	811.1	811.4	811.9	812.4	812.4	811.8	811.3
145°	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.1	841.8	841.4
147.5°	868.1	867.3	866.6	865.8	866.6	867.3	868.1	868.8	869.0	868.7	868.4
150°	885.0	884.5	884.0	883.5	884.0	884.5	885.0	885.5	885.5	885.2	884.9
152.5°	899.9	899.2	898.4	897.7	898.4	899.2	899.9	900.7	900.8	900.1	899.6
155°	920.4	919.4	918.4	917.4	918.4	919.4	920.4	921.3	921.4	920.6	919.8
157.5°	937.9	936.6	935.4	934.1	935.4	936.6	937.9	939.1	939.3	938.3	937.4
160°	948.1	947.0	945.8	944.7	945.8	947.0	948.1	949.2	949.3	948.4	947.3
162.5°	957.7	956.7	955.7	954.7	955.7	956.7	957.7	958.8	958.7	957.6	956.5
165°	970.3	969.0	967.9	966.8	967.9	969.0	970.3	971.4	971.3	970.0	968.7
167.5°	979.4	978.1	976.8	975.4	976.8	978.1	979.4	980.7	980.7	979.4	978.1
170°	984.7	983.4	982.1	980.8	982.1	983.4	984.7	986.0	986.0	984.7	983.4
172.5°	988.1	986.7	985.1	983.7	985.1	986.7	988.1	989.5	989.6	988.3	986.9
175°	992.1	990.8	989.5	988.2	989.5	990.8	992.1	993.3	993.4	992.3	991.2
177.5°	993.4	992.1	990.8	989.5	990.8	992.1	993.4	994.8	994.9	993.8	992.8
180°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8



TEST NUMBER: P332018-830

CATALOG NUMBER: S123DIP-S1000D805U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1269.4	1269.4	1279.2	1285.3	1293.1	1298.2	1301.7	1305.3	1311.5	1319.7	1329.0
5°	1196.8	1199.4	1213.5	1227.7	1241.1	1252.6	1262.3	1273.8	1287.9	1305.2	1324.5
7.5°	1126.5	1136.4	1150.7	1167.8	1186.7	1203.5	1220.6	1239.5	1259.4	1285.0	1311.9
10°	1081.4	1092.3	1109.6	1131.4	1151.3	1171.2	1192.3	1212.9	1237.8	1268.0	1302.7
12.5°	1041.9	1052.3	1070.1	1093.9	1112.9	1134.7	1159.0	1185.7	1213.8	1250.1	1289.3
15°	987.1	999.3	1021.1	1032.6	1061.5	1087.8	1110.2	1148.8	1184.7	1221.8	1267.4
17.5°	942.2	949.0	966.7	988.2	1009.7	1039.2	1068.6	1100.6	1136.4	1181.9	1238.9
20°	911.4	917.2	936.4	958.8	981.9	1008.9	1035.2	1067.2	1107.7	1155.7	1217.4
22.5°	888.3	894.6	907.2	931.1	952.7	975.1	1001.4	1039.5	1082.5	1129.6	1196.4
25°	855.0	858.8	867.1	886.4	905.7	930.7	953.8	989.7	1034.0	1089.1	1155.7
27.5°	823.3	827.0	834.0	847.8	865.7	886.0	911.2	941.7	986.6	1046.5	1117.3
30°	804.3	804.9	811.3	824.2	839.6	856.3	879.4	914.0	956.3	1017.3	1091.7
32.5°	787.9	785.4	789.9	799.6	814.5	831.1	850.1	884.2	925.0	985.0	1061.4
35°	760.1	758.7	756.9	765.2	778.0	790.8	807.5	833.2	879.4	935.2	1015.3
37.5°	731.7	728.6	725.2	729.0	739.0	752.3	766.9	789.7	829.4	890.9	967.6
40°	710.7	708.1	706.2	704.9	713.9	726.7	737.6	759.4	796.6	855.0	930.7
42.5°	687.6	686.1	683.6	681.8	689.3	699.0	710.4	729.6	766.9	821.6	893.2
45°	650.4	649.1	647.8	646.5	651.0	660.0	669.0	683.1	715.1	768.4	833.2
47.5°	609.0	607.3	607.8	605.8	610.1	616.1	622.4	637.5	668.4	711.3	758.7
50°	579.2	578.5	578.5	578.5	579.9	586.8	592.7	604.2	632.4	675.4	709.4
52.5°	550.9	548.3	548.3	549.3	551.6	556.1	559.8	572.4	597.0	632.3	663.2
55°	506.7	501.5	500.3	501.5	503.5	507.4	511.2	521.4	542.6	568.9	586.8
57.5°	457.7	454.9	453.2	453.5	454.5	457.6	460.5	471.6	488.3	502.1	513.6
60°	423.3	424.6	418.9	420.1	420.1	422.6	427.2	434.2	448.4	458.0	469.5
62.5°	391.0	389.2	387.6	385.7	385.7	386.7	392.8	398.3	410.4	415.4	424.3
65°	340.5	340.5	336.8	338.0	338.7	334.1	337.3	343.7	351.5	353.5	361.7
67.5°	289.5	287.8	285.6	283.6	283.6	283.2	284.9	288.1	293.9	294.5	301.0
70°	254.7	253.4	252.7	250.8	248.3	251.5	249.5	252.7	255.9	256.6	260.4
72.5°	220.7	219.5	218.3	216.4	215.4	215.0	215.1	218.9	221.0	220.1	224.5
75°	172.6	171.3	169.9	166.7	166.7	164.9	165.5	168.1	170.6	168.7	172.6
77.5°	126.8	122.7	122.5	123.4	121.2	121.6	120.8	120.5	121.6	121.8	125.2
80°	97.5	93.0	94.3	93.7	93.0	92.4	91.0	91.7	92.4	93.0	94.9
82.5°	70.3	69.9	68.6	68.5	67.9	66.2	65.4	66.5	67.2	66.8	68.2
85°	35.9	34.0	35.3	34.6	35.3	34.6	32.7	32.7	34.0	33.4	34.6
87.5°	14.4	14.3	13.4	13.5	12.5	12.6	11.7	11.9	12.1	11.8	12.4
90°	18.4	17.7	15.6	13.4	11.3	9.1	7.3	5.7	4.1	2.4	0.8
92.5°	19.9	18.9	17.2	15.6	14.0	12.4	11.9	12.3	12.8	13.3	13.7
95°	24.0	22.8	21.0	19.2	17.4	15.6	18.1	24.8	31.5	38.3	45.0
97.5°	25.1	23.8	35.5	47.3	59.1	70.9	78.3	81.3	84.4	87.4	90.3
100°	25.6	24.3	49.9	75.4	100.9	126.5	137.6	134.3	131.1	127.8	124.5
102.5°	44.4	48.4	76.3	104.2	132.2	160.1	172.9	170.5	168.1	165.8	163.4
105°	132.4	161.4	176.1	190.9	205.6	220.4	226.8	225.0	223.2	221.4	219.6
107.5°	274.6	295.8	293.4	291.2	288.8	286.4	284.6	283.1	281.7	280.3	278.8
110°	327.0	332.3	330.5	328.8	327.0	325.1	323.6	322.3	320.9	319.6	318.3



TEST NUMBER: P332018-830

CATALOG NUMBER: S123DIP-S1000D805U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	369.6	369.5	367.7	365.9	364.1	362.2	360.8	359.6	358.4	357.2	356.1
115°	424.6	423.0	421.5	420.0	418.6	417.1	415.8	414.9	413.9	412.9	411.9
117.5°	476.2	474.9	474.1	473.3	472.6	471.8	470.8	469.7	468.4	467.2	466.0
120°	509.7	508.4	507.9	507.5	507.0	506.5	505.5	504.0	502.6	501.1	499.6
122.5°	543.0	542.1	541.4	540.8	540.2	539.5	538.7	537.4	536.2	535.0	533.8
125°	589.8	589.5	588.8	588.1	587.6	586.9	585.9	584.6	583.2	581.9	580.7
127.5°	636.0	635.5	634.7	634.0	633.1	632.4	631.3	630.0	628.7	627.4	626.0
130°	663.8	663.2	662.5	661.9	661.2	660.5	659.6	658.3	657.0	655.6	654.3
132.5°	690.4	689.8	689.2	688.6	688.2	687.6	686.7	685.4	684.1	682.8	681.5
135°	730.8	730.3	729.6	729.0	728.3	727.6	726.8	725.9	724.8	723.9	722.8
137.5°	766.3	765.4	765.1	764.8	764.4	764.0	763.2	762.0	760.7	759.5	758.3
140°	789.1	788.4	788.0	787.5	787.0	786.5	785.8	784.8	783.8	782.8	781.8
142.5°	810.8	810.3	809.7	809.3	808.8	808.3	807.6	806.6	805.6	804.6	803.6
145°	841.1	840.7	840.5	840.1	839.8	839.4	838.8	837.5	836.4	835.3	834.2
147.5°	868.1	867.7	867.4	867.0	866.8	866.5	865.9	865.2	864.4	863.7	862.9
150°	884.6	884.3	883.9	883.6	883.3	883.0	882.5	882.0	881.6	881.1	880.5
152.5°	899.0	898.4	898.2	898.0	897.8	897.6	897.4	897.2	896.9	896.7	896.5
155°	919.0	918.1	917.9	917.8	917.7	917.5	917.6	917.9	918.2	918.6	918.9
157.5°	936.4	935.4	935.6	935.8	935.9	936.0	936.1	936.1	936.2	936.2	936.2
160°	946.4	945.4	945.6	945.7	945.9	946.0	946.2	946.4	946.6	946.7	946.9
162.5°	955.4	954.2	954.4	954.6	954.7	954.9	955.2	955.6	956.0	956.5	956.9
165°	967.3	966.0	966.2	966.4	966.6	966.7	967.0	967.5	968.0	968.5	969.0
167.5°	976.8	975.4	975.4	975.4	975.4	975.4	975.8	976.5	977.1	977.8	978.5
170°	982.1	980.8	980.8	980.8	980.8	980.8	981.1	981.8	982.4	983.1	983.7
172.5°	985.6	984.3	984.2	984.0	983.9	983.8	984.1	984.9	985.7	986.5	987.2
175°	990.0	988.9	988.7	988.5	988.4	988.3	988.5	989.4	990.2	991.0	991.8
177.5°	991.7	990.6	990.5	990.4	990.2	990.1	990.4	991.1	991.7	992.4	993.0
180°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8



TEST NUMBER: P332018-830

CATALOG NUMBER: S123DIP-S1000D805U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1332.0	1334.6	1343.3	1349.5	1356.7	1360.7	1364.9	1368.0	1372.1	1373.1	1388.0
5°	1337.9	1350.8	1373.2	1389.9	1410.4	1432.9	1448.2	1455.3	1473.9	1489.3	1520.1
7.5°	1336.2	1363.6	1397.5	1432.6	1470.4	1505.2	1535.5	1571.4	1596.9	1635.3	1673.1
10°	1334.7	1371.3	1414.9	1459.8	1512.4	1561.1	1604.8	1653.5	1693.9	1747.2	1792.7
12.5°	1330.1	1374.4	1434.9	1488.0	1551.9	1619.1	1683.8	1746.3	1782.2	1870.9	1912.8
15°	1318.7	1371.3	1447.0	1527.8	1615.7	1695.2	1777.3	1842.8	1948.5	2026.2	2075.6
17.5°	1296.9	1370.6	1460.3	1557.8	1664.6	1769.4	1862.5	1961.8	2074.0	2167.9	2267.9
20°	1286.7	1367.4	1467.5	1575.3	1686.2	1804.9	1910.7	2030.0	2152.5	2244.9	2373.1
22.5°	1267.6	1359.2	1467.0	1587.1	1705.7	1828.4	1952.3	2072.6	2214.1	2341.4	2463.4
25°	1236.6	1339.3	1450.9	1584.9	1724.1	1847.2	1995.4	2155.1	2302.6	2466.2	2588.0
27.5°	1204.0	1313.5	1425.4	1550.1	1699.8	1846.0	2032.3	2212.8	2393.1	2534.4	2624.6
30°	1178.8	1285.3	1400.8	1526.5	1674.7	1848.5	2056.9	2253.8	2429.6	2550.8	2601.5
32.5°	1151.7	1259.7	1361.8	1493.6	1651.6	1846.9	2072.4	2277.9	2431.7	2512.3	2502.5
35°	1109.0	1199.4	1298.8	1425.8	1611.8	1835.7	2081.3	2280.1	2374.5	2357.1	2226.3
37.5°	1047.4	1123.4	1221.3	1360.4	1565.7	1811.9	2063.3	2212.5	2206.4	2065.4	1875.8
40°	1008.9	1073.7	1168.0	1314.2	1529.7	1796.6	2035.1	2132.0	2049.9	1852.9	1625.9
42.5°	958.7	1018.2	1112.6	1262.9	1490.3	1765.2	1981.2	2009.3	1848.7	1622.1	1414.0
45°	880.6	933.2	1030.7	1185.9	1431.0	1697.1	1849.7	1781.1	1565.0	1330.9	1172.4
47.5°	796.8	851.5	945.3	1104.8	1345.3	1594.6	1667.4	1521.4	1299.5	1109.6	964.1
50°	744.0	796.6	888.3	1049.3	1287.2	1510.5	1540.6	1352.1	1148.1	981.4	862.0
52.5°	690.7	740.2	830.4	991.8	1219.6	1413.0	1394.4	1202.2	1014.6	872.5	778.9
55°	611.2	658.1	744.0	895.4	1102.6	1255.8	1188.5	1005.0	849.9	739.5	668.4
57.5°	540.2	585.0	659.2	796.0	976.1	1081.4	995.7	841.1	717.7	632.8	579.7
60°	491.9	531.7	602.3	729.2	885.8	965.9	881.3	744.7	640.7	572.8	525.3
62.5°	446.3	480.9	546.3	661.6	797.5	864.9	779.2	663.5	575.0	514.8	474.5
65°	377.1	408.6	466.3	556.1	667.7	712.6	638.9	545.2	476.5	431.7	404.7
67.5°	314.1	340.7	390.6	461.3	543.4	576.1	519.9	447.4	395.8	359.7	338.3
70°	271.9	295.0	334.1	395.1	469.5	494.6	442.0	382.3	344.4	315.6	295.7
72.5°	236.6	253.4	289.0	336.1	398.1	418.0	381.4	328.9	293.6	271.9	256.2
75°	180.2	194.4	217.4	255.2	298.2	309.8	282.2	249.5	225.7	210.4	198.2
77.5°	130.0	140.3	157.0	180.4	210.1	220.6	203.0	181.3	163.9	153.5	146.8
80°	98.1	106.5	120.6	139.8	157.8	163.5	153.3	136.6	124.4	118.7	112.9
82.5°	72.5	77.2	85.7	98.8	111.1	117.9	109.1	99.2	92.7	87.4	85.2
85°	36.6	39.1	43.0	48.1	55.8	58.3	55.1	52.6	48.7	45.5	45.5
87.5°	13.9	14.1	16.0	17.3	19.8	21.8	21.7	21.1	21.0	20.6	20.3
90°	2.4	4.1	5.7	7.3	9.1	11.3	13.4	15.6	17.7	18.4	19.0
92.5°	13.3	12.8	12.3	11.9	12.4	14.0	15.6	17.2	18.9	19.9	20.9
95°	38.3	31.5	24.8	18.1	15.6	17.4	19.2	21.0	22.8	24.0	25.2
97.5°	87.4	84.4	81.3	78.3	70.9	59.1	47.3	35.5	23.8	25.1	26.4
100°	127.8	131.1	134.3	137.6	126.5	100.9	75.4	49.9	24.3	25.6	27.0
102.5°	165.8	168.1	170.5	172.9	160.1	132.2	104.2	76.3	48.4	44.4	40.3
105°	221.4	223.2	225.0	226.8	220.4	205.6	190.9	176.1	161.4	132.4	103.4
107.5°	280.3	281.7	283.1	284.6	286.4	288.8	291.2	293.4	295.8	274.6	253.3
110°	319.6	320.9	322.3	323.6	325.1	327.0	328.8	330.5	332.3	327.0	321.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	357.2	358.4	359.6	360.8	362.2	364.1	365.9	367.7	369.5	369.6	369.7
115°	412.9	413.9	414.9	415.8	417.1	418.6	420.0	421.5	423.0	424.6	426.2
117.5°	467.2	468.4	469.7	470.8	471.8	472.6	473.3	474.1	474.9	476.2	477.5
120°	501.1	502.6	504.0	505.5	506.5	507.0	507.5	507.9	508.4	509.7	511.0
122.5°	535.0	536.2	537.4	538.7	539.5	540.2	540.8	541.4	542.1	543.0	543.8
125°	581.9	583.2	584.6	585.9	586.9	587.6	588.1	588.8	589.5	589.8	590.1
127.5°	627.4	628.7	630.0	631.3	632.4	633.1	634.0	634.7	635.5	636.0	636.5
130°	655.6	657.0	658.3	659.6	660.5	661.2	661.9	662.5	663.2	663.8	664.5
132.5°	682.8	684.1	685.4	686.7	687.6	688.2	688.6	689.2	689.8	690.4	691.0
135°	723.9	724.8	725.9	726.8	727.6	728.3	729.0	729.6	730.3	730.8	731.2
137.5°	759.5	760.7	762.0	763.2	764.0	764.4	764.8	765.1	765.4	766.3	767.0
140°	782.8	783.8	784.8	785.8	786.5	787.0	787.5	788.0	788.4	789.1	789.8
142.5°	804.6	805.6	806.6	807.6	808.3	808.8	809.3	809.7	810.3	810.8	811.3
145°	835.3	836.4	837.5	838.8	839.4	839.8	840.1	840.5	840.7	841.1	841.4
147.5°	863.7	864.4	865.2	865.9	866.5	866.8	867.0	867.4	867.7	868.1	868.4
150°	881.1	881.6	882.0	882.5	883.0	883.3	883.6	883.9	884.3	884.6	884.9
152.5°	896.7	896.9	897.2	897.4	897.6	897.8	898.0	898.2	898.4	899.0	899.6
155°	918.6	918.2	917.9	917.6	917.5	917.7	917.8	917.9	918.1	919.0	919.8
157.5°	936.2	936.2	936.1	936.1	936.0	935.9	935.8	935.6	935.4	936.4	937.4
160°	946.7	946.6	946.4	946.2	946.0	945.9	945.7	945.6	945.4	946.4	947.3
162.5°	956.5	956.0	955.6	955.2	954.9	954.7	954.6	954.4	954.2	955.4	956.5
165°	968.5	968.0	967.5	967.0	966.7	966.6	966.4	966.2	966.0	967.3	968.7
167.5°	977.8	977.1	976.5	975.8	975.4	975.4	975.4	975.4	975.4	976.8	978.1
170°	983.1	982.4	981.8	981.1	980.8	980.8	980.8	980.8	980.8	982.1	983.4
172.5°	986.5	985.7	984.9	984.1	983.8	983.9	984.0	984.2	984.3	985.6	986.9
175°	991.0	990.2	989.4	988.5	988.3	988.4	988.5	988.7	988.9	990.0	991.2
177.5°	992.4	991.7	991.1	990.4	990.1	990.2	990.4	990.5	990.6	991.7	992.8
180°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1393.1	1393.6	1399.3	1403.4	1401.3	1403.9	1404.9
5°	1522.0	1545.1	1557.3	1566.3	1566.9	1567.5	1572.7
7.5°	1704.8	1729.6	1747.7	1775.1	1783.3	1792.7	1790.0
10°	1838.2	1874.8	1906.2	1922.9	1940.9	1967.2	1946.0
12.5°	1962.9	2027.7	2075.6	2101.5	2118.4	2123.6	2113.3
15°	2168.5	2253.2	2298.8	2297.4	2355.2	2380.2	2341.1
17.5°	2357.1	2435.2	2497.8	2529.9	2578.0	2588.7	2583.8
20°	2472.6	2557.9	2606.6	2661.7	2686.8	2709.2	2713.1
22.5°	2572.1	2648.7	2701.0	2746.9	2767.9	2778.5	2784.9
25°	2674.6	2734.9	2766.4	2782.4	2788.1	2786.8	2778.5
27.5°	2667.6	2672.2	2637.5	2603.6	2573.1	2538.9	2527.1
30°	2598.3	2544.4	2448.2	2393.7	2313.5	2250.0	2275.7
32.5°	2416.1	2308.9	2200.8	2081.7	1983.0	1954.9	1926.7
35°	2062.1	1873.5	1763.2	1634.9	1583.6	1532.3	1497.0
37.5°	1668.3	1522.4	1391.6	1307.7	1256.2	1223.8	1206.4
40°	1442.5	1311.0	1203.2	1135.3	1096.2	1059.6	1054.4
42.5°	1262.3	1140.1	1059.0	1004.9	967.3	951.8	940.6
45°	1034.0	948.6	894.1	855.6	830.6	821.0	808.1
47.5°	875.2	814.8	773.9	747.7	728.9	721.7	720.7
50°	786.4	736.3	706.2	685.6	670.9	668.4	658.1
52.5°	719.6	676.3	652.8	634.9	624.2	617.0	614.0
55°	624.7	595.9	574.7	564.4	556.1	549.0	549.0
57.5°	546.6	522.5	508.5	499.7	497.2	492.2	489.0
60°	498.3	477.9	466.9	459.2	454.1	454.8	448.9
62.5°	451.2	437.8	427.4	419.7	413.6	413.7	414.1
65°	384.2	373.9	366.3	363.6	359.9	355.3	356.7
67.5°	325.6	315.9	309.9	305.6	304.3	301.8	305.6
70°	283.5	276.4	271.9	268.1	266.8	267.5	270.7
72.5°	245.0	240.0	237.0	235.3	232.4	232.5	234.8
75°	192.4	188.6	186.0	184.1	183.4	183.4	183.4
77.5°	141.4	140.4	139.3	136.5	136.6	137.4	137.5
80°	111.6	109.7	109.1	107.7	105.8	104.5	107.7
82.5°	83.4	81.4	80.8	80.6	77.6	77.4	80.0
85°	44.9	43.0	43.6	43.0	43.0	42.3	42.3
87.5°	19.8	19.4	19.0	19.6	19.1	18.8	19.8
90°	19.6	20.3	20.8	21.1	21.5	21.8	22.1
92.5°	22.0	23.1	23.7	23.8	24.0	24.2	24.5
95°	26.3	27.4	28.0	28.0	28.0	28.0	28.0
97.5°	27.6	28.9	29.7	29.9	30.1	30.2	30.3
100°	28.3	29.6	30.3	30.4	30.6	30.8	30.9
102.5°	36.3	32.2	30.3	30.6	30.9	31.2	31.6
105°	74.5	45.4	31.1	31.5	31.8	32.1	32.4
107.5°	232.1	210.8	189.2	167.4	145.5	123.7	101.8
110°	316.1	310.8	296.3	272.9	249.5	226.0	202.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	369.8	369.9	367.4	362.5	357.5	352.6	347.7
115°	427.9	429.5	430.6	431.3	432.0	432.6	433.3
117.5°	478.8	480.0	480.8	481.0	481.1	481.2	481.4
120°	512.4	513.7	514.3	514.3	514.3	514.3	514.3
122.5°	544.8	545.7	546.2	546.4	546.5	546.7	546.8
125°	590.5	590.8	591.2	591.4	591.8	592.1	592.5
127.5°	637.1	637.5	637.6	637.3	637.1	636.7	636.4
130°	665.2	665.8	666.0	665.6	665.3	665.0	664.7
132.5°	691.6	692.3	692.4	692.0	691.5	691.1	690.6
135°	731.7	732.2	732.2	731.7	731.2	730.8	730.3
137.5°	767.8	768.6	768.8	768.5	768.2	767.9	767.5
140°	790.4	791.1	791.3	790.9	790.6	790.2	789.9
142.5°	811.8	812.4	812.4	811.9	811.4	811.1	810.6
145°	841.8	842.1	842.3	842.3	842.3	842.3	842.3
147.5°	868.7	869.0	868.8	868.1	867.3	866.6	865.8
150°	885.2	885.5	885.5	885.0	884.5	884.0	883.5
152.5°	900.1	900.8	900.7	899.9	899.2	898.4	897.7
155°	920.6	921.4	921.3	920.4	919.4	918.4	917.4
157.5°	938.3	939.3	939.1	937.9	936.6	935.4	934.1
160°	948.4	949.3	949.2	948.1	947.0	945.8	944.7
162.5°	957.6	958.7	958.8	957.7	956.7	955.7	954.7
165°	970.0	971.3	971.4	970.3	969.0	967.9	966.8
167.5°	979.4	980.7	980.7	979.4	978.1	976.8	975.4
170°	984.7	986.0	986.0	984.7	983.4	982.1	980.8
172.5°	988.3	989.6	989.5	988.1	986.7	985.1	983.7
175°	992.3	993.4	993.3	992.1	990.8	989.5	988.2
177.5°	993.8	994.9	994.8	993.4	992.1	990.8	989.5
180°	991.8	991.8	991.8	991.8	991.8	991.8	991.8

(END OF REPORT)