

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: P332020-830

Luminaire Tested: **S123DIP-S1000D805U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332020-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,  
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-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 805 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6737.2 lumens  
Efficiency: N/A  
Efficacy: 123.8 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

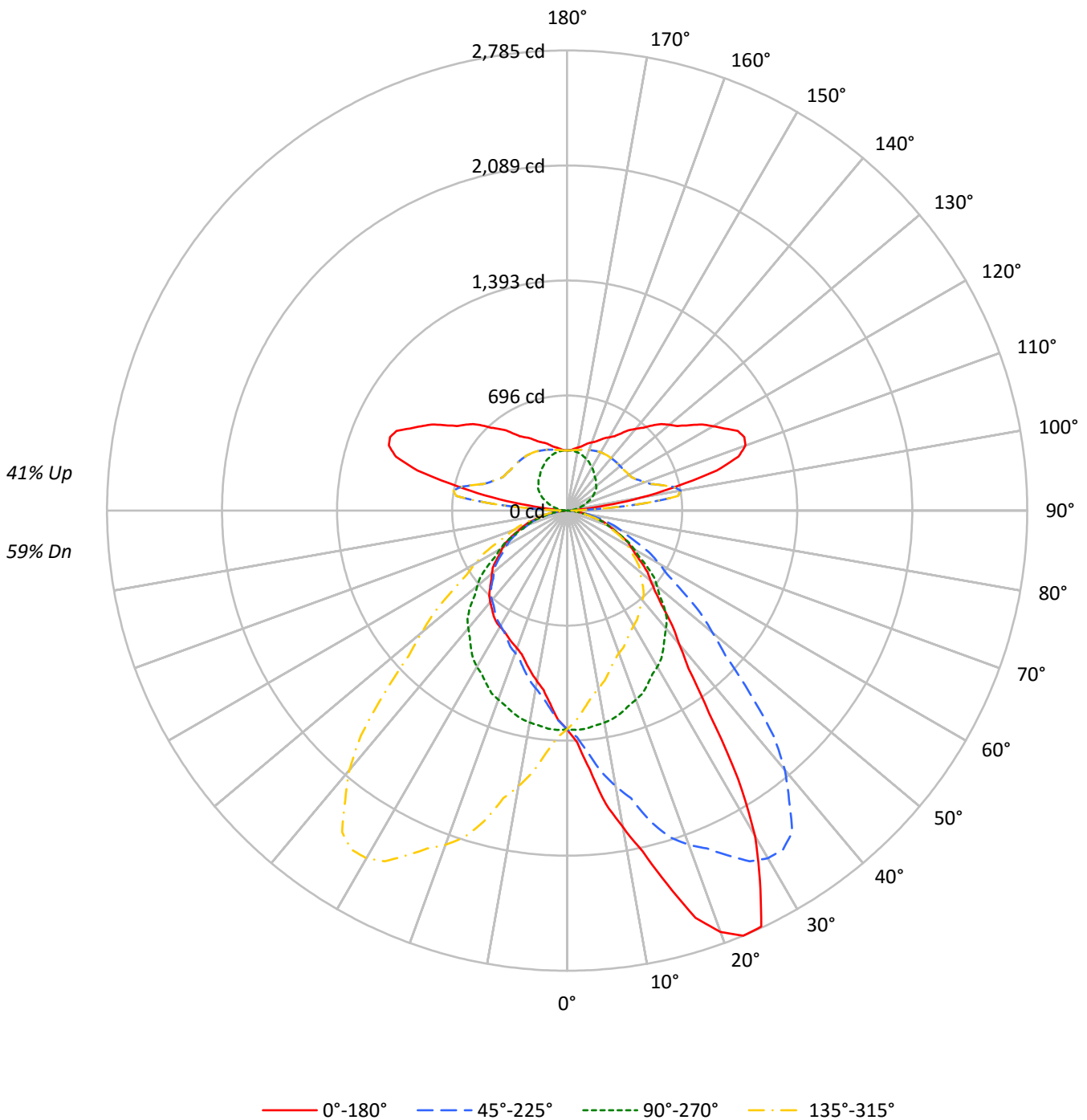
Input Watts (W): 54.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	59
1	100	96	92	89	93	90	86	83	78	76	73	68	66	64	58	56	55	51
2	92	84	78	73	85	79	74	69	69	65	61	60	57	54	51	49	47	43
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	46	43	40	37
4	77	66	58	52	71	62	55	49	54	49	44	47	43	40	41	38	35	32
5	71	59	51	45	66	55	48	43	49	43	39	43	38	35	37	33	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	30	34	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	31	27	24	22
8	56	44	36	30	52	41	34	29	37	31	27	32	28	24	28	24	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	17
10	49	37	29	24	46	35	28	23	31	25	22	27	23	20	24	20	18	16

**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	6.2
20°-30°	701.8	10.4
30°-40°	794.6	11.8
40°-50°	712.6	10.6
50°-60°	575.1	8.5
60°-70°	400.7	5.9
70°-80°	210.6	3.1
80°-90°	54.3	0.8
90°-100°	202.6	3.0
100°-110°	573.6	8.5
110°-120°	564.3	8.4
120°-130°	450.1	6.7
130°-140°	354.9	5.3
140°-150°	264.9	3.9
150°-160°	184.6	2.7
160°-170°	108.5	1.6
170°-180°	35.3	0.5
0°-30°	1250.4	18.6
0°-40°	2045.0	30.4
0°-60°	3332.7	49.5
0°-90°	3998.4	59.3
90°-120°	1340.5	19.9
90°-150°	2410.4	35.8
90°-180°	2739.0	40.7
0°-180°	6737.2	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°	21	2	21	2	21	13
95°	86	25	86	25	86	154
105°	937	86	937	86	937	925
115°	1140	151	1140	151	1140	1108
125°	899	210	899	210	899	815
135°	729	246	729	246	729	565
145°	570	281	570	281	570	362
155°	472	319	472	319	472	220
165°	412	349	412	349	412	118
175°	371	363	371	363	371	36
180°	364	364	364	364	364	



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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°	19.7	18.8	19.1	19.5	19.1	19.4	19.7	20.1	20.5	21.1	21.2
90°	21.4	22.1	21.4	20.6	21.4	19.9	19.1	18.4	17.7	18.4	16.2
92.5°	35.5	36.9	36.1	38.4	39.7	43.5	49.2	62.0	85.5	113.3	124.7
95°	85.5	88.4	93.6	100.2	114.2	140.7	179.8	265.3	354.5	437.0	389.1
97.5°	232.7	239.0	258.9	292.1	346.5	434.6	529.7	661.3	724.5	677.2	495.8
100°	462.0	461.3	490.0	543.8	618.2	722.9	809.1	868.8	843.0	697.9	471.6
102.5°	677.8	694.7	718.8	761.4	819.3	885.6	935.9	937.7	848.9	659.5	436.2
105°	937.4	941.0	964.6	992.6	1026.5	1045.7	1031.6	958.0	804.0	592.5	392.8
107.5°	1086.8	1093.5	1101.5	1111.0	1110.3	1084.1	1019.5	899.9	725.3	533.2	365.0
110°	1148.1	1149.5	1151.0	1145.1	1124.5	1072.9	980.1	844.5	675.7	499.6	354.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1160.5	1160.2	1154.6	1136.3	1098.5	1032.3	928.2	789.7	632.7	477.2	348.6
115°	1140.0	1136.3	1121.5	1089.1	1033.9	953.6	845.2	717.0	580.7	453.2	346.4
117.5°	1074.9	1069.8	1048.6	1011.4	953.9	872.3	775.1	664.4	549.3	439.0	347.7
120°	1020.6	1016.2	998.5	957.2	899.0	824.6	736.1	636.7	532.8	432.5	350.1
122.5°	969.9	964.3	944.8	907.7	856.0	786.8	704.9	614.9	519.2	428.5	354.1
125°	899.0	893.8	875.4	843.0	795.9	736.9	666.2	585.8	501.8	423.0	360.3
127.5°	840.7	835.9	819.3	791.5	749.6	696.0	632.1	560.5	486.5	420.4	367.4
130°	807.7	801.7	786.3	759.8	720.7	670.6	610.9	544.6	478.2	418.6	372.1
132.5°	775.2	771.1	757.4	730.8	694.2	646.4	590.9	529.8	470.6	417.9	375.7
135°	728.8	723.6	710.4	688.2	652.1	610.1	562.2	509.9	460.5	417.1	381.0
137.5°	679.8	676.4	665.2	642.7	612.4	576.0	534.7	491.8	451.9	415.5	384.6
140°	645.5	646.3	634.4	613.9	585.8	554.1	518.8	481.2	446.6	414.9	386.9
142.5°	613.7	614.4	603.8	585.5	561.7	534.1	503.4	471.2	441.9	413.7	388.6
145°	569.6	568.2	562.2	546.8	528.4	507.0	483.4	459.1	435.5	411.9	389.8
147.5°	533.4	532.8	527.2	516.7	502.8	487.6	468.5	449.2	429.3	409.2	389.8
150°	512.2	512.2	507.7	499.6	488.5	474.6	459.1	442.1	425.2	406.8	389.8
152.5°	494.5	494.5	491.8	484.3	475.6	463.9	450.3	435.6	420.5	403.8	388.0
155°	472.3	471.6	470.1	464.2	457.6	448.7	437.7	425.9	413.4	398.7	386.2
157.5°	452.1	452.3	451.1	446.7	440.9	434.0	425.5	415.6	405.5	394.1	383.6
160°	439.2	439.9	439.9	435.5	430.4	425.2	417.8	409.7	400.1	390.6	382.5
162.5°	427.4	428.1	428.1	424.3	420.9	416.3	409.5	402.7	394.8	387.0	380.1
165°	411.9	411.9	412.6	409.7	406.8	403.1	397.9	393.5	387.6	381.7	376.5
167.5°	397.2	397.2	397.9	395.9	394.5	391.9	388.9	385.5	380.7	376.5	373.1
170°	388.3	388.3	389.1	387.6	386.9	385.4	382.5	380.2	376.5	372.9	370.7
172.5°	380.1	380.7	382.0	380.5	380.4	379.5	377.1	375.5	372.4	369.9	368.9
175°	370.7	371.4	372.1	371.4	371.4	371.4	369.9	369.2	367.7	366.3	366.3
177.5°	365.2	365.2	366.4	365.8	366.4	366.4	365.8	365.2	364.6	364.0	364.6
180°	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0



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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°	21.8	21.9	19.9	17.5	16.2	14.2	13.9	12.6	11.9	12.2	12.1
90°	14.0	11.8	9.6	8.1	6.6	4.4	2.9	1.5	2.9	4.4	6.6
92.5°	93.6	61.9	42.6	31.7	25.5	19.8	13.6	9.1	13.6	19.8	25.5
95°	268.2	158.4	95.8	67.0	47.9	35.3	27.2	25.1	27.2	35.3	47.9
97.5°	294.4	170.5	110.7	79.6	60.7	49.9	43.5	42.7	43.5	49.9	60.7
100°	277.8	168.7	117.2	88.4	70.8	60.4	55.2	54.6	55.2	60.4	70.8
102.5°	263.6	171.1	124.8	98.5	82.6	72.8	68.2	66.9	68.2	72.8	82.6
105°	253.4	177.6	137.8	115.0	100.9	92.1	87.7	85.5	87.7	92.1	100.9
107.5°	252.8	189.6	154.8	133.6	120.4	111.7	107.4	105.2	107.4	111.7	120.4
110°	255.7	199.7	166.5	145.9	133.4	125.3	121.6	119.4	121.6	125.3	133.4





TEST NUMBER: P332020-830

CATALOG NUMBER: S123DIP-S1000D805U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	261.6	209.7	178.9	158.9	146.4	138.3	134.6	132.3	134.6	138.3	146.4
115°	271.2	226.2	198.2	178.3	165.8	158.4	154.0	151.1	154.0	158.4	165.8
117.5°	283.9	243.7	216.0	197.7	183.6	176.8	173.1	169.8	173.1	176.8	183.6
120°	293.3	255.0	228.5	210.0	196.0	188.6	184.9	182.8	184.9	188.6	196.0
122.5°	302.1	266.7	240.8	221.2	207.8	199.8	196.1	194.0	196.1	199.8	207.8
125°	316.1	283.7	257.9	238.0	224.0	215.9	211.5	210.0	211.5	215.9	224.0
127.5°	327.6	298.4	273.5	253.6	238.2	229.9	224.4	222.3	224.4	229.9	238.2
130°	335.3	307.3	283.0	263.1	247.6	238.7	232.1	229.9	232.1	238.7	247.6
132.5°	342.3	314.9	291.2	271.9	256.5	245.8	238.7	235.8	238.7	245.8	256.5
135°	351.5	326.4	303.6	283.7	268.2	257.2	249.1	246.1	249.1	257.2	268.2
137.5°	358.3	334.4	312.5	294.0	278.7	266.9	258.9	255.8	258.9	266.9	278.7
140°	361.8	339.7	318.3	299.9	285.2	273.4	266.0	262.3	266.0	273.4	285.2
142.5°	365.3	343.8	323.0	305.9	291.1	280.5	272.5	269.4	272.5	280.5	291.1
145°	369.2	349.3	330.2	313.2	300.7	289.6	283.0	280.8	283.0	289.6	300.7
147.5°	371.6	353.7	336.2	321.7	309.6	300.1	293.6	292.3	293.6	300.1	309.6
150°	372.1	356.7	339.7	326.4	316.1	306.5	300.7	299.9	300.7	306.5	316.1
152.5°	373.3	358.4	343.8	331.1	322.1	313.6	307.7	307.6	307.7	313.6	322.1
155°	373.6	361.8	349.3	338.9	330.8	323.5	319.1	319.1	319.1	323.5	330.8
157.5°	374.4	363.7	353.7	345.7	338.8	332.3	328.8	328.2	328.8	332.3	338.8
160°	374.4	365.5	356.7	349.3	344.1	338.3	335.3	335.3	335.3	338.3	344.1
162.5°	373.7	366.1	358.4	352.2	347.7	343.0	340.6	340.6	340.6	343.0	347.7
165°	372.1	366.9	361.1	355.9	353.0	349.3	347.8	348.6	347.8	349.3	353.0
167.5°	371.0	366.8	362.6	359.3	357.2	354.5	353.7	354.6	353.7	354.5	357.2
170°	369.2	366.3	362.6	361.1	359.6	357.4	356.7	358.2	356.7	357.4	359.6
172.5°	368.6	366.3	363.2	362.2	361.4	359.8	359.6	360.5	359.6	359.8	361.4
175°	366.9	365.5	364.0	363.3	363.3	361.8	362.6	363.3	362.6	361.8	363.3
177.5°	365.8	364.6	364.0	364.0	364.0	363.4	364.0	364.6	364.0	363.4	364.0
180°	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0



TEST NUMBER: P332020-830

CATALOG NUMBER: S123DIP-S1000D805U830-4F0-1E-UDD-A4

**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°	11.9	12.7	12.6	13.6	13.5	14.4	14.3	13.5	13.6	15.3	13.5
90°	8.1	9.6	11.8	14.0	16.2	18.4	17.7	18.4	19.1	19.9	21.4
92.5°	31.7	42.6	61.9	93.6	124.7	113.3	85.5	62.0	49.2	43.5	39.7
95°	67.0	95.8	158.4	268.2	389.1	437.0	354.5	265.3	179.8	140.7	114.2
97.5°	79.6	110.7	170.5	294.4	495.8	677.2	724.5	661.3	529.7	434.6	346.5
100°	88.4	117.2	168.7	277.8	471.6	697.9	843.0	868.8	809.1	722.9	618.2
102.5°	98.5	124.8	171.1	263.6	436.2	659.5	848.9	937.7	935.9	885.6	819.3
105°	115.0	137.8	177.6	253.4	392.8	592.5	804.0	958.0	1031.6	1045.7	1026.5
107.5°	133.6	154.8	189.6	252.8	365.0	533.2	725.3	899.9	1019.5	1084.1	1110.3
110°	145.9	166.5	199.7	255.7	354.5	499.6	675.7	844.5	980.1	1072.9	1124.5



TEST NUMBER: P332020-830

CATALOG NUMBER: S123DIP-S1000D805U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	158.9	178.9	209.7	261.6	348.6	477.2	632.7	789.7	928.2	1032.3	1098.5
115°	178.3	198.2	226.2	271.2	346.4	453.2	580.7	717.0	845.2	953.6	1033.9
117.5°	197.7	216.0	243.7	283.9	347.7	439.0	549.3	664.4	775.1	872.3	953.9
120°	210.0	228.5	255.0	293.3	350.1	432.5	532.8	636.7	736.1	824.6	899.0
122.5°	221.2	240.8	266.7	302.1	354.1	428.5	519.2	614.9	704.9	786.8	856.0
125°	238.0	257.9	283.7	316.1	360.3	423.0	501.8	585.8	666.2	736.9	795.9
127.5°	253.6	273.5	298.4	327.6	367.4	420.4	486.5	560.5	632.1	696.0	749.6
130°	263.1	283.0	307.3	335.3	372.1	418.6	478.2	544.6	610.9	670.6	720.7
132.5°	271.9	291.2	314.9	342.3	375.7	417.9	470.6	529.8	590.9	646.4	694.2
135°	283.7	303.6	326.4	351.5	381.0	417.1	460.5	509.9	562.2	610.1	652.1
137.5°	294.0	312.5	334.4	358.3	384.6	415.5	451.9	491.8	534.7	576.0	612.4
140°	299.9	318.3	339.7	361.8	386.9	414.9	446.6	481.2	518.8	554.1	585.8
142.5°	305.9	323.0	343.8	365.3	388.6	413.7	441.9	471.2	503.4	534.1	561.7
145°	313.2	330.2	349.3	369.2	389.8	411.9	435.5	459.1	483.4	507.0	528.4
147.5°	321.7	336.2	353.7	371.6	389.8	409.2	429.3	449.2	468.5	487.6	502.8
150°	326.4	339.7	356.7	372.1	389.8	406.8	425.2	442.1	459.1	474.6	488.5
152.5°	331.1	343.8	358.4	373.3	388.0	403.8	420.5	435.6	450.3	463.9	475.6
155°	338.9	349.3	361.8	373.6	386.2	398.7	413.4	425.9	437.7	448.7	457.6
157.5°	345.7	353.7	363.7	374.4	383.6	394.1	405.5	415.6	425.5	434.0	440.9
160°	349.3	356.7	365.5	374.4	382.5	390.6	400.1	409.7	417.8	425.2	430.4
162.5°	352.2	358.4	366.1	373.7	380.1	387.0	394.8	402.7	409.5	416.3	420.9
165°	355.9	361.1	366.9	372.1	376.5	381.7	387.6	393.5	397.9	403.1	406.8
167.5°	359.3	362.6	366.8	371.0	373.1	376.5	380.7	385.5	388.9	391.9	394.5
170°	361.1	362.6	366.3	369.2	370.7	372.9	376.5	380.2	382.5	385.4	386.9
172.5°	362.2	363.2	366.3	368.6	368.9	369.9	372.4	375.5	377.1	379.5	380.4
175°	363.3	364.0	365.5	366.9	366.3	366.3	367.7	369.2	369.9	371.4	371.4
177.5°	364.0	364.0	364.6	365.8	364.6	364.0	364.6	365.2	365.8	366.4	366.4
180°	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0



TEST NUMBER: P332020-830

CATALOG NUMBER: S123DIP-S1000D805U830-4F0-1E-UDD-A4

**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°	13.4	13.5	13.1	12.4	13.1	13.5	13.4	13.5	15.3	13.6	13.5
90°	20.6	21.4	22.1	21.4	22.1	21.4	20.6	21.4	19.9	19.1	18.4
92.5°	38.4	36.1	36.9	35.5	36.9	36.1	38.4	39.7	43.5	49.2	62.0
95°	100.2	93.6	88.4	85.5	88.4	93.6	100.2	114.2	140.7	179.8	265.3
97.5°	292.1	258.9	239.0	232.7	239.0	258.9	292.1	346.5	434.6	529.7	661.3
100°	543.8	490.0	461.3	462.0	461.3	490.0	543.8	618.2	722.9	809.1	868.8
102.5°	761.4	718.8	694.7	677.8	694.7	718.8	761.4	819.3	885.6	935.9	937.7
105°	992.6	964.6	941.0	937.4	941.0	964.6	992.6	1026.5	1045.7	1031.6	958.0
107.5°	1111.0	1101.5	1093.5	1086.8	1093.5	1101.5	1111.0	1110.3	1084.1	1019.5	899.9
110°	1145.1	1151.0	1149.5	1148.1	1149.5	1151.0	1145.1	1124.5	1072.9	980.1	844.5



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1136.3	1154.6	1160.2	1160.5	1160.2	1154.6	1136.3	1098.5	1032.3	928.2	789.7
115°	1089.1	1121.5	1136.3	1140.0	1136.3	1121.5	1089.1	1033.9	953.6	845.2	717.0
117.5°	1011.4	1048.6	1069.8	1074.9	1069.8	1048.6	1011.4	953.9	872.3	775.1	664.4
120°	957.2	998.5	1016.2	1020.6	1016.2	998.5	957.2	899.0	824.6	736.1	636.7
122.5°	907.7	944.8	964.3	969.9	964.3	944.8	907.7	856.0	786.8	704.9	614.9
125°	843.0	875.4	893.8	899.0	893.8	875.4	843.0	795.9	736.9	666.2	585.8
127.5°	791.5	819.3	835.9	840.7	835.9	819.3	791.5	749.6	696.0	632.1	560.5
130°	759.8	786.3	801.7	807.7	801.7	786.3	759.8	720.7	670.6	610.9	544.6
132.5°	730.8	757.4	771.1	775.2	771.1	757.4	730.8	694.2	646.4	590.9	529.8
135°	688.2	710.4	723.6	728.8	723.6	710.4	688.2	652.1	610.1	562.2	509.9
137.5°	642.7	665.2	676.4	679.8	676.4	665.2	642.7	612.4	576.0	534.7	491.8
140°	613.9	634.4	646.3	645.5	646.3	634.4	613.9	585.8	554.1	518.8	481.2
142.5°	585.5	603.8	614.4	613.7	614.4	603.8	585.5	561.7	534.1	503.4	471.2
145°	546.8	562.2	568.2	569.6	568.2	562.2	546.8	528.4	507.0	483.4	459.1
147.5°	516.7	527.2	532.8	533.4	532.8	527.2	516.7	502.8	487.6	468.5	449.2
150°	499.6	507.7	512.2	512.2	512.2	507.7	499.6	488.5	474.6	459.1	442.1
152.5°	484.3	491.8	494.5	494.5	494.5	491.8	484.3	475.6	463.9	450.3	435.6
155°	464.2	470.1	471.6	472.3	471.6	470.1	464.2	457.6	448.7	437.7	425.9
157.5°	446.7	451.1	452.3	452.1	452.3	451.1	446.7	440.9	434.0	425.5	415.6
160°	435.5	439.9	439.9	439.2	439.9	439.9	435.5	430.4	425.2	417.8	409.7
162.5°	424.3	428.1	428.1	427.4	428.1	428.1	424.3	420.9	416.3	409.5	402.7
165°	409.7	412.6	411.9	411.9	411.9	412.6	409.7	406.8	403.1	397.9	393.5
167.5°	395.9	397.9	397.2	397.2	397.2	397.9	395.9	394.5	391.9	388.9	385.5
170°	387.6	389.1	388.3	388.3	388.3	389.1	387.6	386.9	385.4	382.5	380.2
172.5°	380.5	382.0	380.7	380.1	380.7	382.0	380.5	380.4	379.5	377.1	375.5
175°	371.4	372.1	371.4	370.7	371.4	372.1	371.4	371.4	371.4	369.9	369.2
177.5°	365.8	366.4	365.2	365.2	365.2	366.4	365.8	366.4	366.4	365.8	365.2
180°	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0



TEST NUMBER: P332020-830

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**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°	14.3	14.4	13.5	13.6	12.6	12.7	11.9	12.1	12.2	11.9	12.6
90°	17.7	18.4	16.2	14.0	11.8	9.6	8.1	6.6	4.4	2.9	1.5
92.5°	85.5	113.3	124.7	93.6	61.9	42.6	31.7	25.5	19.8	13.6	9.1
95°	354.5	437.0	389.1	268.2	158.4	95.8	67.0	47.9	35.3	27.2	25.1
97.5°	724.5	677.2	495.8	294.4	170.5	110.7	79.6	60.7	49.9	43.5	42.7
100°	843.0	697.9	471.6	277.8	168.7	117.2	88.4	70.8	60.4	55.2	54.6
102.5°	848.9	659.5	436.2	263.6	171.1	124.8	98.5	82.6	72.8	68.2	66.9
105°	804.0	592.5	392.8	253.4	177.6	137.8	115.0	100.9	92.1	87.7	85.5
107.5°	725.3	533.2	365.0	252.8	189.6	154.8	133.6	120.4	111.7	107.4	105.2
110°	675.7	499.6	354.5	255.7	199.7	166.5	145.9	133.4	125.3	121.6	119.4



TEST NUMBER: P332020-830

CATALOG NUMBER: S123DIP-S1000D805U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	632.7	477.2	348.6	261.6	209.7	178.9	158.9	146.4	138.3	134.6	132.3
115°	580.7	453.2	346.4	271.2	226.2	198.2	178.3	165.8	158.4	154.0	151.1
117.5°	549.3	439.0	347.7	283.9	243.7	216.0	197.7	183.6	176.8	173.1	169.8
120°	532.8	432.5	350.1	293.3	255.0	228.5	210.0	196.0	188.6	184.9	182.8
122.5°	519.2	428.5	354.1	302.1	266.7	240.8	221.2	207.8	199.8	196.1	194.0
125°	501.8	423.0	360.3	316.1	283.7	257.9	238.0	224.0	215.9	211.5	210.0
127.5°	486.5	420.4	367.4	327.6	298.4	273.5	253.6	238.2	229.9	224.4	222.3
130°	478.2	418.6	372.1	335.3	307.3	283.0	263.1	247.6	238.7	232.1	229.9
132.5°	470.6	417.9	375.7	342.3	314.9	291.2	271.9	256.5	245.8	238.7	235.8
135°	460.5	417.1	381.0	351.5	326.4	303.6	283.7	268.2	257.2	249.1	246.1
137.5°	451.9	415.5	384.6	358.3	334.4	312.5	294.0	278.7	266.9	258.9	255.8
140°	446.6	414.9	386.9	361.8	339.7	318.3	299.9	285.2	273.4	266.0	262.3
142.5°	441.9	413.7	388.6	365.3	343.8	323.0	305.9	291.1	280.5	272.5	269.4
145°	435.5	411.9	389.8	369.2	349.3	330.2	313.2	300.7	289.6	283.0	280.8
147.5°	429.3	409.2	389.8	371.6	353.7	336.2	321.7	309.6	300.1	293.6	292.3
150°	425.2	406.8	389.8	372.1	356.7	339.7	326.4	316.1	306.5	300.7	299.9
152.5°	420.5	403.8	388.0	373.3	358.4	343.8	331.1	322.1	313.6	307.7	307.6
155°	413.4	398.7	386.2	373.6	361.8	349.3	338.9	330.8	323.5	319.1	319.1
157.5°	405.5	394.1	383.6	374.4	363.7	353.7	345.7	338.8	332.3	328.8	328.2
160°	400.1	390.6	382.5	374.4	365.5	356.7	349.3	344.1	338.3	335.3	335.3
162.5°	394.8	387.0	380.1	373.7	366.1	358.4	352.2	347.7	343.0	340.6	340.6
165°	387.6	381.7	376.5	372.1	366.9	361.1	355.9	353.0	349.3	347.8	348.6
167.5°	380.7	376.5	373.1	371.0	366.8	362.6	359.3	357.2	354.5	353.7	354.6
170°	376.5	372.9	370.7	369.2	366.3	362.6	361.1	359.6	357.4	356.7	358.2
172.5°	372.4	369.9	368.9	368.6	366.3	363.2	362.2	361.4	359.8	359.6	360.5
175°	367.7	366.3	366.3	366.9	365.5	364.0	363.3	363.3	361.8	362.6	363.3
177.5°	364.6	364.0	364.6	365.8	364.6	364.0	364.0	364.0	363.4	364.0	364.6
180°	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0



TEST NUMBER: P332020-830

CATALOG NUMBER: S123DIP-S1000D805U830-4F0-1E-UDD-A4

**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	14.2	16.2	17.5	19.9	21.9	21.8	21.2	21.1	20.5	20.1
90°	2.9	4.4	6.6	8.1	9.6	11.8	14.0	16.2	18.4	17.7	18.4
92.5°	13.6	19.8	25.5	31.7	42.6	61.9	93.6	124.7	113.3	85.5	62.0
95°	27.2	35.3	47.9	67.0	95.8	158.4	268.2	389.1	437.0	354.5	265.3
97.5°	43.5	49.9	60.7	79.6	110.7	170.5	294.4	495.8	677.2	724.5	661.3
100°	55.2	60.4	70.8	88.4	117.2	168.7	277.8	471.6	697.9	843.0	868.8
102.5°	68.2	72.8	82.6	98.5	124.8	171.1	263.6	436.2	659.5	848.9	937.7
105°	87.7	92.1	100.9	115.0	137.8	177.6	253.4	392.8	592.5	804.0	958.0
107.5°	107.4	111.7	120.4	133.6	154.8	189.6	252.8	365.0	533.2	725.3	899.9
110°	121.6	125.3	133.4	145.9	166.5	199.7	255.7	354.5	499.6	675.7	844.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	134.6	138.3	146.4	158.9	178.9	209.7	261.6	348.6	477.2	632.7	789.7
115°	154.0	158.4	165.8	178.3	198.2	226.2	271.2	346.4	453.2	580.7	717.0
117.5°	173.1	176.8	183.6	197.7	216.0	243.7	283.9	347.7	439.0	549.3	664.4
120°	184.9	188.6	196.0	210.0	228.5	255.0	293.3	350.1	432.5	532.8	636.7
122.5°	196.1	199.8	207.8	221.2	240.8	266.7	302.1	354.1	428.5	519.2	614.9
125°	211.5	215.9	224.0	238.0	257.9	283.7	316.1	360.3	423.0	501.8	585.8
127.5°	224.4	229.9	238.2	253.6	273.5	298.4	327.6	367.4	420.4	486.5	560.5
130°	232.1	238.7	247.6	263.1	283.0	307.3	335.3	372.1	418.6	478.2	544.6
132.5°	238.7	245.8	256.5	271.9	291.2	314.9	342.3	375.7	417.9	470.6	529.8
135°	249.1	257.2	268.2	283.7	303.6	326.4	351.5	381.0	417.1	460.5	509.9
137.5°	258.9	266.9	278.7	294.0	312.5	334.4	358.3	384.6	415.5	451.9	491.8
140°	266.0	273.4	285.2	299.9	318.3	339.7	361.8	386.9	414.9	446.6	481.2
142.5°	272.5	280.5	291.1	305.9	323.0	343.8	365.3	388.6	413.7	441.9	471.2
145°	283.0	289.6	300.7	313.2	330.2	349.3	369.2	389.8	411.9	435.5	459.1
147.5°	293.6	300.1	309.6	321.7	336.2	353.7	371.6	389.8	409.2	429.3	449.2
150°	300.7	306.5	316.1	326.4	339.7	356.7	372.1	389.8	406.8	425.2	442.1
152.5°	307.7	313.6	322.1	331.1	343.8	358.4	373.3	388.0	403.8	420.5	435.6
155°	319.1	323.5	330.8	338.9	349.3	361.8	373.6	386.2	398.7	413.4	425.9
157.5°	328.8	332.3	338.8	345.7	353.7	363.7	374.4	383.6	394.1	405.5	415.6
160°	335.3	338.3	344.1	349.3	356.7	365.5	374.4	382.5	390.6	400.1	409.7
162.5°	340.6	343.0	347.7	352.2	358.4	366.1	373.7	380.1	387.0	394.8	402.7
165°	347.8	349.3	353.0	355.9	361.1	366.9	372.1	376.5	381.7	387.6	393.5
167.5°	353.7	354.5	357.2	359.3	362.6	366.8	371.0	373.1	376.5	380.7	385.5
170°	356.7	357.4	359.6	361.1	362.6	366.3	369.2	370.7	372.9	376.5	380.2
172.5°	359.6	359.8	361.4	362.2	363.2	366.3	368.6	368.9	369.9	372.4	375.5
175°	362.6	361.8	363.3	363.3	364.0	365.5	366.9	366.3	366.3	367.7	369.2
177.5°	364.0	363.4	364.0	364.0	364.0	364.6	365.8	364.6	364.0	364.6	365.2
180°	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0



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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°	19.7	19.4	19.1	19.5	19.1	18.8	19.7
90°	19.1	19.9	21.4	20.6	21.4	22.1	21.4
92.5°	49.2	43.5	39.7	38.4	36.1	36.9	35.5
95°	179.8	140.7	114.2	100.2	93.6	88.4	85.5
97.5°	529.7	434.6	346.5	292.1	258.9	239.0	232.7
100°	809.1	722.9	618.2	543.8	490.0	461.3	462.0
102.5°	935.9	885.6	819.3	761.4	718.8	694.7	677.8
105°	1031.6	1045.7	1026.5	992.6	964.6	941.0	937.4
107.5°	1019.5	1084.1	1110.3	1111.0	1101.5	1093.5	1086.8
110°	980.1	1072.9	1124.5	1145.1	1151.0	1149.5	1148.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	928.2	1032.3	1098.5	1136.3	1154.6	1160.2	1160.5
115°	845.2	953.6	1033.9	1089.1	1121.5	1136.3	1140.0
117.5°	775.1	872.3	953.9	1011.4	1048.6	1069.8	1074.9
120°	736.1	824.6	899.0	957.2	998.5	1016.2	1020.6
122.5°	704.9	786.8	856.0	907.7	944.8	964.3	969.9
125°	666.2	736.9	795.9	843.0	875.4	893.8	899.0
127.5°	632.1	696.0	749.6	791.5	819.3	835.9	840.7
130°	610.9	670.6	720.7	759.8	786.3	801.7	807.7
132.5°	590.9	646.4	694.2	730.8	757.4	771.1	775.2
135°	562.2	610.1	652.1	688.2	710.4	723.6	728.8
137.5°	534.7	576.0	612.4	642.7	665.2	676.4	679.8
140°	518.8	554.1	585.8	613.9	634.4	646.3	645.5
142.5°	503.4	534.1	561.7	585.5	603.8	614.4	613.7
145°	483.4	507.0	528.4	546.8	562.2	568.2	569.6
147.5°	468.5	487.6	502.8	516.7	527.2	532.8	533.4
150°	459.1	474.6	488.5	499.6	507.7	512.2	512.2
152.5°	450.3	463.9	475.6	484.3	491.8	494.5	494.5
155°	437.7	448.7	457.6	464.2	470.1	471.6	472.3
157.5°	425.5	434.0	440.9	446.7	451.1	452.3	452.1
160°	417.8	425.2	430.4	435.5	439.9	439.9	439.2
162.5°	409.5	416.3	420.9	424.3	428.1	428.1	427.4
165°	397.9	403.1	406.8	409.7	412.6	411.9	411.9
167.5°	388.9	391.9	394.5	395.9	397.9	397.2	397.2
170°	382.5	385.4	386.9	387.6	389.1	388.3	388.3
172.5°	377.1	379.5	380.4	380.5	382.0	380.7	380.1
175°	369.9	371.4	371.4	371.4	372.1	371.4	370.7
177.5°	365.8	366.4	366.4	365.8	366.4	365.2	365.2
180°	364.0	364.0	364.0	364.0	364.0	364.0	364.0

(END OF REPORT)