

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: P332002-830

Luminaire Tested: **S123DIP-S1000D365U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332002-830
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-S1000D365U830-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5234.8 lumens
Efficiency: N/A
Efficacy: 120.3 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

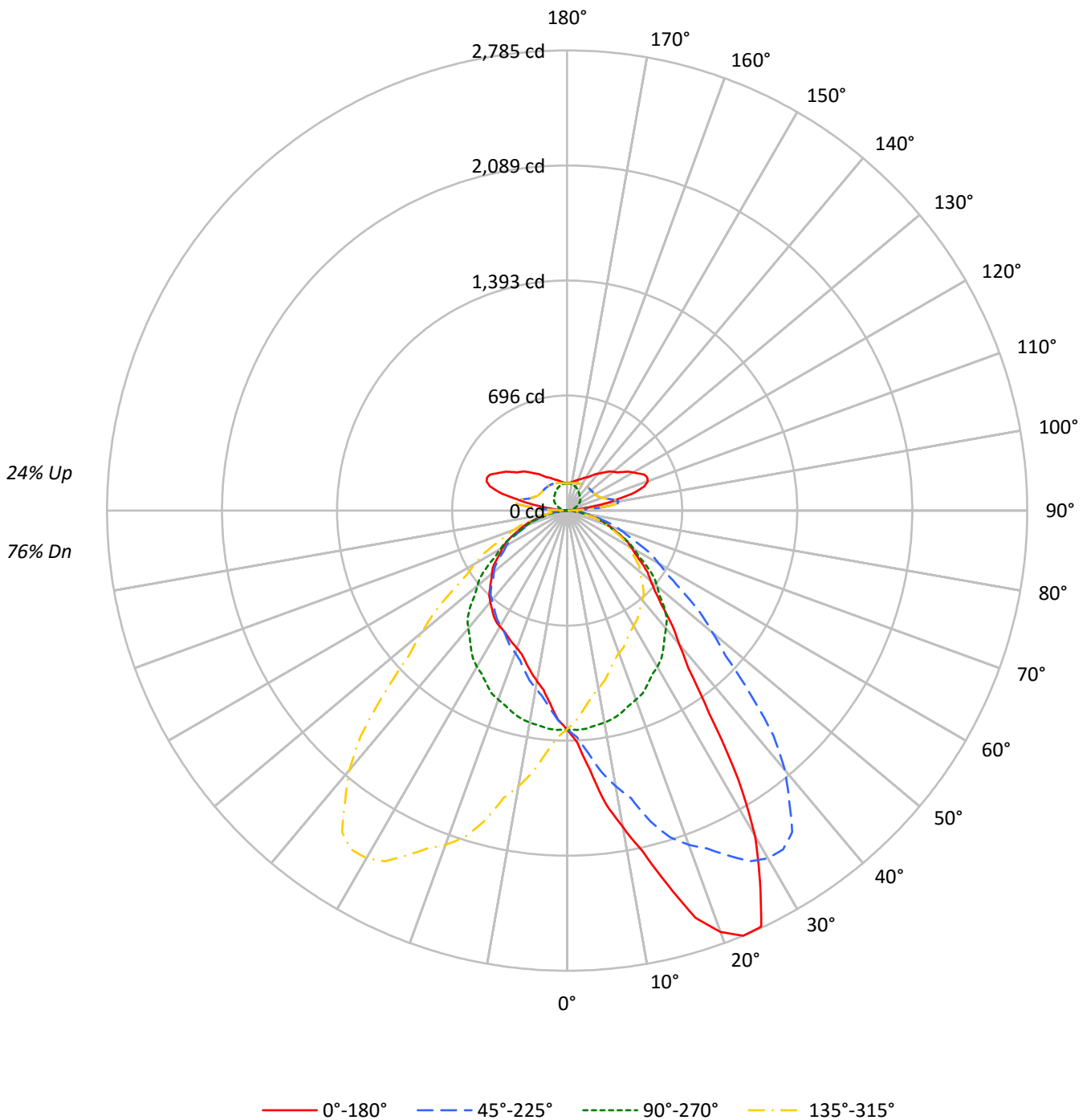
Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	113	113	113	113	108	108	108	108	98	98	98	89	89	89	80	80	80	80	80	80	80	80	80	76		
1	104	100	96	92	99	95	92	89	87	84	82	79	77	75	72	70	69	69	69	69	69	69	69	65		
2	95	88	81	76	90	84	78	73	77	72	68	70	66	63	64	61	59	59	59	59	59	59	59	55		
3	87	77	70	64	83	74	67	62	68	62	58	62	58	54	57	53	50	50	50	50	50	50	50	47		
4	80	69	61	55	76	66	59	53	61	55	50	56	51	47	51	47	44	44	44	44	44	44	44	41		
5	74	62	53	47	70	59	52	46	54	48	43	50	45	41	46	42	38	38	38	38	38	38	38	36		
6	68	56	47	41	65	53	46	40	49	43	38	45	40	36	42	37	34	34	34	34	34	34	34	31		
7	63	50	42	36	60	48	41	35	45	38	34	41	36	32	38	34	30	30	30	30	30	30	30	28		
8	59	46	38	32	56	44	37	32	41	35	30	38	33	29	35	30	27	27	27	27	27	27	27	25		
9	55	42	34	29	52	41	33	28	38	31	27	35	30	26	32	28	24	24	24	24	24	24	24	22		
10	51	39	31	26	49	37	30	26	35	29	25	32	27	23	30	26	22	22	22	22	22	22	22	20		

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	2.5
10°-20°	418.2	8.0
20°-30°	701.8	13.4
30°-40°	794.6	15.2
40°-50°	712.6	13.6
50°-60°	575.1	11.0
60°-70°	400.7	7.7
70°-80°	210.6	4.0
80°-90°	52.8	1.0
90°-100°	91.6	1.7
100°-110°	259.3	5.0
110°-120°	255.1	4.9
120°-130°	203.5	3.9
130°-140°	160.4	3.1
140°-150°	119.7	2.3
150°-160°	83.4	1.6
160°-170°	49.0	0.9
170°-180°	16.0	0.3
0°-30°	1250.4	23.9
0°-40°	2045.0	39.1
0°-60°	3332.7	63.7
0°-90°	3996.9	76.4
90°-120°	605.9	11.6
90°-150°	1089.5	20.8
90°-180°	1238.0	23.6
0°-180°	5234.8	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	50
90°	10	1	10	1	10	7
95°	39	11	39	11	39	70
105°	424	39	424	39	424	418
115°	515	68	515	68	515	501
125°	406	95	406	95	406	368
135°	329	111	329	111	329	256
145°	258	127	258	127	258	164
155°	214	144	214	144	214	100
165°	186	158	186	158	186	53
175°	168	164	168	164	168	16
180°	165	165	165	165	165	



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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°	17.3	16.4	16.8	17.2	16.8	17.2	17.6	18.1	18.6	19.1	19.4
90°	9.6	10.0	9.6	9.3	9.6	9.0	8.7	8.3	8.0	8.3	7.4
92.5°	16.0	16.7	16.3	17.3	17.9	19.6	22.2	28.1	38.6	51.2	56.4
95°	38.6	40.0	42.3	45.3	51.7	63.6	81.2	119.9	160.2	197.6	175.9
97.5°	105.2	108.0	117.1	132.1	156.7	196.4	239.4	298.9	327.4	306.1	224.1
100°	208.9	208.5	221.5	245.8	279.5	326.8	365.7	392.7	381.1	315.5	213.2
102.5°	306.3	314.1	324.9	344.1	370.3	400.3	423.0	423.9	383.7	298.1	197.2
105°	423.7	425.4	436.0	448.7	464.0	472.6	466.3	433.0	363.4	267.8	177.6
107.5°	491.3	494.3	497.9	502.2	501.9	490.0	460.8	406.7	327.8	241.0	165.0
110°	519.0	519.6	520.3	517.6	508.3	484.9	443.0	381.7	305.5	225.8	160.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	524.5	524.4	521.9	513.6	496.5	466.6	419.5	356.9	286.0	215.7	157.5
115°	515.3	513.6	506.9	492.3	467.3	431.0	382.0	324.0	262.5	204.8	156.6
117.5°	485.8	483.5	474.0	457.2	431.1	394.3	350.3	300.3	248.3	198.4	157.1
120°	461.3	459.3	451.3	432.6	406.3	372.7	332.7	287.8	240.8	195.5	158.3
122.5°	438.4	435.8	427.1	410.3	386.9	355.6	318.6	278.0	234.7	193.7	160.0
125°	406.3	404.1	395.7	381.1	359.8	333.1	301.1	264.8	226.9	191.1	162.9
127.5°	379.9	377.9	370.3	357.8	338.8	314.5	285.7	253.4	219.9	190.0	166.1
130°	365.0	362.4	355.4	343.4	325.7	303.1	276.2	246.1	216.1	189.2	168.2
132.5°	350.4	348.6	342.3	330.4	313.8	292.2	267.0	239.5	212.7	188.9	169.8
135°	329.4	327.1	321.1	311.1	294.7	275.8	254.1	230.5	208.2	188.5	172.2
137.5°	307.3	305.7	300.7	290.5	276.8	260.3	241.7	222.3	204.2	187.8	173.8
140°	291.8	292.1	286.8	277.5	264.8	250.4	234.5	217.5	201.8	187.6	174.8
142.5°	277.4	277.7	273.0	264.7	253.8	241.4	227.5	213.0	199.7	187.0	175.7
145°	257.5	256.8	254.1	247.1	238.8	229.1	218.5	207.5	196.8	186.2	176.2
147.5°	241.1	240.8	238.3	233.6	227.2	220.4	211.8	203.0	194.1	184.9	176.2
150°	231.5	231.5	229.5	225.8	220.8	214.5	207.5	199.8	192.2	183.9	176.2
152.5°	223.5	223.5	222.3	218.9	215.0	209.7	203.5	196.9	190.0	182.6	175.4
155°	213.5	213.2	212.5	209.8	206.8	202.8	197.8	192.6	186.8	180.2	174.6
157.5°	204.3	204.4	203.9	201.9	199.3	196.1	192.3	187.8	183.2	178.1	173.4
160°	198.5	198.9	198.9	196.8	194.5	192.2	188.9	185.2	180.9	176.5	172.9
162.5°	193.2	193.5	193.5	191.8	190.3	188.2	185.1	182.0	178.4	174.9	171.8
165°	186.2	186.2	186.5	185.2	183.9	182.2	179.8	177.9	175.2	172.6	170.2
167.5°	179.6	179.6	179.8	178.9	178.3	177.1	175.8	174.3	172.1	170.1	168.6
170°	175.5	175.5	175.9	175.2	174.8	174.2	172.9	171.8	170.2	168.5	167.6
172.5°	171.8	172.1	172.7	172.0	171.9	171.5	170.5	169.8	168.3	167.2	166.7
175°	167.6	167.9	168.2	167.9	167.9	167.9	167.2	166.8	166.2	165.5	165.5
177.5°	165.0	165.0	165.6	165.3	165.6	165.6	165.3	165.0	164.9	164.6	164.9
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6



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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°	20.3	20.5	18.9	16.7	15.5	13.8	13.6	12.4	11.6	11.7	11.4
90°	6.3	5.4	4.3	3.7	3.0	2.0	1.3	0.7	1.3	2.0	3.0
92.5°	42.3	28.0	19.2	14.3	11.5	9.0	6.1	4.1	6.1	9.0	11.5
95°	121.2	71.6	43.3	30.3	21.7	16.0	12.3	11.3	12.3	16.0	21.7
97.5°	133.0	77.1	50.0	36.0	27.4	22.5	19.6	19.3	19.6	22.5	27.4
100°	125.5	76.3	53.0	40.0	32.0	27.3	25.0	24.7	25.0	27.3	32.0
102.5°	119.1	77.4	56.5	44.5	37.3	32.9	30.8	30.3	30.8	32.9	37.3
105°	114.6	80.3	62.3	51.9	45.6	41.7	39.7	38.6	39.7	41.7	45.6
107.5°	114.2	85.8	69.9	60.3	54.4	50.5	48.5	47.6	48.5	50.5	54.4
110°	115.6	90.3	75.3	66.0	60.3	56.6	55.0	53.9	55.0	56.6	60.3



TEST NUMBER: P332002-830

CATALOG NUMBER: S123DIP-S1000D365U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	118.3	94.8	80.9	71.8	66.2	62.5	60.8	59.9	60.8	62.5	66.2
115°	122.5	102.3	89.6	80.6	74.9	71.6	69.7	68.2	69.7	71.6	74.9
117.5°	128.3	110.2	97.6	89.4	83.0	79.9	78.2	76.7	78.2	79.9	83.0
120°	132.5	115.3	103.2	94.9	88.6	85.3	83.6	82.6	83.6	85.3	88.6
122.5°	136.6	120.6	108.9	100.0	94.0	90.3	88.7	87.7	88.7	90.3	94.0
125°	142.9	128.3	116.6	107.5	101.2	97.6	95.6	94.9	95.6	97.6	101.2
127.5°	148.1	134.9	123.7	114.6	107.6	104.0	101.4	100.5	101.4	104.0	107.6
130°	151.6	138.9	127.9	118.9	111.9	107.9	104.9	104.0	104.9	107.9	111.9
132.5°	154.8	142.3	131.7	122.9	115.9	111.1	107.8	106.6	107.8	111.1	115.9
135°	158.9	147.5	137.2	128.3	121.2	116.2	112.5	111.2	112.5	116.2	121.2
137.5°	161.9	151.2	141.2	132.9	125.9	120.6	117.1	115.6	117.1	120.6	125.9
140°	163.5	153.5	143.9	135.5	128.9	123.6	120.3	118.6	120.3	123.6	128.9
142.5°	165.1	155.4	146.0	138.3	131.6	126.8	123.2	121.8	123.2	126.8	131.6
145°	166.8	157.9	149.2	141.6	135.9	130.9	127.9	126.9	127.9	130.9	135.9
147.5°	168.0	159.9	151.9	145.4	140.0	135.6	132.7	132.1	132.7	135.6	140.0
150°	168.2	161.2	153.5	147.5	142.9	138.6	135.9	135.5	135.9	138.6	142.9
152.5°	168.7	162.0	155.4	149.7	145.5	141.8	139.1	139.0	139.1	141.8	145.5
155°	168.9	163.5	157.9	153.3	149.6	146.2	144.2	144.2	144.2	146.2	149.6
157.5°	169.2	164.4	159.9	156.3	153.2	150.2	148.6	148.4	148.6	150.2	153.2
160°	169.2	165.2	161.2	157.9	155.5	152.9	151.6	151.6	151.6	152.9	155.5
162.5°	168.9	165.5	162.0	159.2	157.1	155.0	153.9	153.9	153.9	155.0	157.1
165°	168.2	165.9	163.2	160.9	159.6	157.9	157.2	157.5	157.2	157.9	159.6
167.5°	167.7	165.8	163.9	162.4	161.5	160.2	159.9	160.2	159.9	160.2	161.5
170°	166.8	165.5	163.9	163.2	162.5	161.6	161.2	161.8	161.2	161.6	162.5
172.5°	166.6	165.5	164.1	163.7	163.3	162.6	162.5	163.0	162.5	162.6	163.3
175°	165.9	165.2	164.6	164.2	164.2	163.5	163.9	164.2	163.9	163.5	164.2
177.5°	165.3	164.9	164.6	164.6	164.6	164.3	164.6	164.9	164.6	164.3	164.6
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6



TEST NUMBER: P332002-830

CATALOG NUMBER: S123DIP-S1000D365U830-4F0-1E-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°	11.0	11.7	11.3	12.1	11.7	12.4	12.3	11.4	11.5	13.1	11.1
90°	3.7	4.3	5.4	6.3	7.4	8.3	8.0	8.3	8.7	9.0	9.6
92.5°	14.3	19.2	28.0	42.3	56.4	51.2	38.6	28.1	22.2	19.6	17.9
95°	30.3	43.3	71.6	121.2	175.9	197.6	160.2	119.9	81.2	63.6	51.7
97.5°	36.0	50.0	77.1	133.0	224.1	306.1	327.4	298.9	239.4	196.4	156.7
100°	40.0	53.0	76.3	125.5	213.2	315.5	381.1	392.7	365.7	326.8	279.5
102.5°	44.5	56.5	77.4	119.1	197.2	298.1	383.7	423.9	423.0	400.3	370.3
105°	51.9	62.3	80.3	114.6	177.6	267.8	363.4	433.0	466.3	472.6	464.0
107.5°	60.3	69.9	85.8	114.2	165.0	241.0	327.8	406.7	460.8	490.0	501.9
110°	66.0	75.3	90.3	115.6	160.2	225.8	305.5	381.7	443.0	484.9	508.3



TEST NUMBER: P332002-830

CATALOG NUMBER: S123DIP-S1000D365U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	71.8	80.9	94.8	118.3	157.5	215.7	286.0	356.9	419.5	466.6	496.5
115°	80.6	89.6	102.3	122.5	156.6	204.8	262.5	324.0	382.0	431.0	467.3
117.5°	89.4	97.6	110.2	128.3	157.1	198.4	248.3	300.3	350.3	394.3	431.1
120°	94.9	103.2	115.3	132.5	158.3	195.5	240.8	287.8	332.7	372.7	406.3
122.5°	100.0	108.9	120.6	136.6	160.0	193.7	234.7	278.0	318.6	355.6	386.9
125°	107.5	116.6	128.3	142.9	162.9	191.1	226.9	264.8	301.1	333.1	359.8
127.5°	114.6	123.7	134.9	148.1	166.1	190.0	219.9	253.4	285.7	314.5	338.8
130°	118.9	127.9	138.9	151.6	168.2	189.2	216.1	246.1	276.2	303.1	325.7
132.5°	122.9	131.7	142.3	154.8	169.8	188.9	212.7	239.5	267.0	292.2	313.8
135°	128.3	137.2	147.5	158.9	172.2	188.5	208.2	230.5	254.1	275.8	294.7
137.5°	132.9	141.2	151.2	161.9	173.8	187.8	204.2	222.3	241.7	260.3	276.8
140°	135.5	143.9	153.5	163.5	174.8	187.6	201.8	217.5	234.5	250.4	264.8
142.5°	138.3	146.0	155.4	165.1	175.7	187.0	199.7	213.0	227.5	241.4	253.8
145°	141.6	149.2	157.9	166.8	176.2	186.2	196.8	207.5	218.5	229.1	238.8
147.5°	145.4	151.9	159.9	168.0	176.2	184.9	194.1	203.0	211.8	220.4	227.2
150°	147.5	153.5	161.2	168.2	176.2	183.9	192.2	199.8	207.5	214.5	220.8
152.5°	149.7	155.4	162.0	168.7	175.4	182.6	190.0	196.9	203.5	209.7	215.0
155°	153.3	157.9	163.5	168.9	174.6	180.2	186.8	192.6	197.8	202.8	206.8
157.5°	156.3	159.9	164.4	169.2	173.4	178.1	183.2	187.8	192.3	196.1	199.3
160°	157.9	161.2	165.2	169.2	172.9	176.5	180.9	185.2	188.9	192.2	194.5
162.5°	159.2	162.0	165.5	168.9	171.8	174.9	178.4	182.0	185.1	188.2	190.3
165°	160.9	163.2	165.9	168.2	170.2	172.6	175.2	177.9	179.8	182.2	183.9
167.5°	162.4	163.9	165.8	167.7	168.6	170.1	172.1	174.3	175.8	177.1	178.3
170°	163.2	163.9	165.5	166.8	167.6	168.5	170.2	171.8	172.9	174.2	174.8
172.5°	163.7	164.1	165.5	166.6	166.7	167.2	168.3	169.8	170.5	171.5	171.9
175°	164.2	164.6	165.2	165.9	165.5	165.5	166.2	166.8	167.2	167.9	167.9
177.5°	164.6	164.6	164.9	165.3	164.9	164.6	164.9	165.0	165.3	165.6	165.6
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6



TEST NUMBER: P332002-830

CATALOG NUMBER: S123DIP-S1000D365U830-4F0-1E-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°	11.1	11.1	10.7	10.2	10.7	11.1	11.1	11.1	13.1	11.5	11.4
90°	9.3	9.6	10.0	9.6	10.0	9.6	9.3	9.6	9.0	8.7	8.3
92.5°	17.3	16.3	16.7	16.0	16.7	16.3	17.3	17.9	19.6	22.2	28.1
95°	45.3	42.3	40.0	38.6	40.0	42.3	45.3	51.7	63.6	81.2	119.9
97.5°	132.1	117.1	108.0	105.2	108.0	117.1	132.1	156.7	196.4	239.4	298.9
100°	245.8	221.5	208.5	208.9	208.5	221.5	245.8	279.5	326.8	365.7	392.7
102.5°	344.1	324.9	314.1	306.3	314.1	324.9	344.1	370.3	400.3	423.0	423.9
105°	448.7	436.0	425.4	423.7	425.4	436.0	448.7	464.0	472.6	466.3	433.0
107.5°	502.2	497.9	494.3	491.3	494.3	497.9	502.2	501.9	490.0	460.8	406.7
110°	517.6	520.3	519.6	519.0	519.6	520.3	517.6	508.3	484.9	443.0	381.7



TEST NUMBER: P332002-830

CATALOG NUMBER: S123DIP-S1000D365U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	513.6	521.9	524.4	524.5	524.4	521.9	513.6	496.5	466.6	419.5	356.9
115°	492.3	506.9	513.6	515.3	513.6	506.9	492.3	467.3	431.0	382.0	324.0
117.5°	457.2	474.0	483.5	485.8	483.5	474.0	457.2	431.1	394.3	350.3	300.3
120°	432.6	451.3	459.3	461.3	459.3	451.3	432.6	406.3	372.7	332.7	287.8
122.5°	410.3	427.1	435.8	438.4	435.8	427.1	410.3	386.9	355.6	318.6	278.0
125°	381.1	395.7	404.1	406.3	404.1	395.7	381.1	359.8	333.1	301.1	264.8
127.5°	357.8	370.3	377.9	379.9	377.9	370.3	357.8	338.8	314.5	285.7	253.4
130°	343.4	355.4	362.4	365.0	362.4	355.4	343.4	325.7	303.1	276.2	246.1
132.5°	330.4	342.3	348.6	350.4	348.6	342.3	330.4	313.8	292.2	267.0	239.5
135°	311.1	321.1	327.1	329.4	327.1	321.1	311.1	294.7	275.8	254.1	230.5
137.5°	290.5	300.7	305.7	307.3	305.7	300.7	290.5	276.8	260.3	241.7	222.3
140°	277.5	286.8	292.1	291.8	292.1	286.8	277.5	264.8	250.4	234.5	217.5
142.5°	264.7	273.0	277.7	277.4	277.7	273.0	264.7	253.8	241.4	227.5	213.0
145°	247.1	254.1	256.8	257.5	256.8	254.1	247.1	238.8	229.1	218.5	207.5
147.5°	233.6	238.3	240.8	241.1	240.8	238.3	233.6	227.2	220.4	211.8	203.0
150°	225.8	229.5	231.5	231.5	231.5	229.5	225.8	220.8	214.5	207.5	199.8
152.5°	218.9	222.3	223.5	223.5	223.5	222.3	218.9	215.0	209.7	203.5	196.9
155°	209.8	212.5	213.2	213.5	213.2	212.5	209.8	206.8	202.8	197.8	192.6
157.5°	201.9	203.9	204.4	204.3	204.4	203.9	201.9	199.3	196.1	192.3	187.8
160°	196.8	198.9	198.9	198.5	198.9	198.9	196.8	194.5	192.2	188.9	185.2
162.5°	191.8	193.5	193.5	193.2	193.5	193.5	191.8	190.3	188.2	185.1	182.0
165°	185.2	186.5	186.2	186.2	186.2	186.5	185.2	183.9	182.2	179.8	177.9
167.5°	178.9	179.8	179.6	179.6	179.6	179.8	178.9	178.3	177.1	175.8	174.3
170°	175.2	175.9	175.5	175.5	175.5	175.9	175.2	174.8	174.2	172.9	171.8
172.5°	172.0	172.7	172.1	171.8	172.1	172.7	172.0	171.9	171.5	170.5	169.8
175°	167.9	168.2	167.9	167.6	167.9	168.2	167.9	167.9	167.9	167.2	166.8
177.5°	165.3	165.6	165.0	165.0	165.0	165.6	165.3	165.6	165.6	165.3	165.0
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6



TEST NUMBER: P332002-830

CATALOG NUMBER: S123DIP-S1000D365U830-4F0-1E-UDD-A4

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°	12.3	12.4	11.7	12.1	11.3	11.7	11.0	11.4	11.7	11.6	12.4
90°	8.0	8.3	7.4	6.3	5.4	4.3	3.7	3.0	2.0	1.3	0.7
92.5°	38.6	51.2	56.4	42.3	28.0	19.2	14.3	11.5	9.0	6.1	4.1
95°	160.2	197.6	175.9	121.2	71.6	43.3	30.3	21.7	16.0	12.3	11.3
97.5°	327.4	306.1	224.1	133.0	77.1	50.0	36.0	27.4	22.5	19.6	19.3
100°	381.1	315.5	213.2	125.5	76.3	53.0	40.0	32.0	27.3	25.0	24.7
102.5°	383.7	298.1	197.2	119.1	77.4	56.5	44.5	37.3	32.9	30.8	30.3
105°	363.4	267.8	177.6	114.6	80.3	62.3	51.9	45.6	41.7	39.7	38.6
107.5°	327.8	241.0	165.0	114.2	85.8	69.9	60.3	54.4	50.5	48.5	47.6
110°	305.5	225.8	160.2	115.6	90.3	75.3	66.0	60.3	56.6	55.0	53.9



TEST NUMBER: P332002-830

CATALOG NUMBER: S123DIP-S1000D365U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	286.0	215.7	157.5	118.3	94.8	80.9	71.8	66.2	62.5	60.8	59.9
115°	262.5	204.8	156.6	122.5	102.3	89.6	80.6	74.9	71.6	69.7	68.2
117.5°	248.3	198.4	157.1	128.3	110.2	97.6	89.4	83.0	79.9	78.2	76.7
120°	240.8	195.5	158.3	132.5	115.3	103.2	94.9	88.6	85.3	83.6	82.6
122.5°	234.7	193.7	160.0	136.6	120.6	108.9	100.0	94.0	90.3	88.7	87.7
125°	226.9	191.1	162.9	142.9	128.3	116.6	107.5	101.2	97.6	95.6	94.9
127.5°	219.9	190.0	166.1	148.1	134.9	123.7	114.6	107.6	104.0	101.4	100.5
130°	216.1	189.2	168.2	151.6	138.9	127.9	118.9	111.9	107.9	104.9	104.0
132.5°	212.7	188.9	169.8	154.8	142.3	131.7	122.9	115.9	111.1	107.8	106.6
135°	208.2	188.5	172.2	158.9	147.5	137.2	128.3	121.2	116.2	112.5	111.2
137.5°	204.2	187.8	173.8	161.9	151.2	141.2	132.9	125.9	120.6	117.1	115.6
140°	201.8	187.6	174.8	163.5	153.5	143.9	135.5	128.9	123.6	120.3	118.6
142.5°	199.7	187.0	175.7	165.1	155.4	146.0	138.3	131.6	126.8	123.2	121.8
145°	196.8	186.2	176.2	166.8	157.9	149.2	141.6	135.9	130.9	127.9	126.9
147.5°	194.1	184.9	176.2	168.0	159.9	151.9	145.4	140.0	135.6	132.7	132.1
150°	192.2	183.9	176.2	168.2	161.2	153.5	147.5	142.9	138.6	135.9	135.5
152.5°	190.0	182.6	175.4	168.7	162.0	155.4	149.7	145.5	141.8	139.1	139.0
155°	186.8	180.2	174.6	168.9	163.5	157.9	153.3	149.6	146.2	144.2	144.2
157.5°	183.2	178.1	173.4	169.2	164.4	159.9	156.3	153.2	150.2	148.6	148.4
160°	180.9	176.5	172.9	169.2	165.2	161.2	157.9	155.5	152.9	151.6	151.6
162.5°	178.4	174.9	171.8	168.9	165.5	162.0	159.2	157.1	155.0	153.9	153.9
165°	175.2	172.6	170.2	168.2	165.9	163.2	160.9	159.6	157.9	157.2	157.5
167.5°	172.1	170.1	168.6	167.7	165.8	163.9	162.4	161.5	160.2	159.9	160.2
170°	170.2	168.5	167.6	166.8	165.5	163.9	163.2	162.5	161.6	161.2	161.8
172.5°	168.3	167.2	166.7	166.6	165.5	164.1	163.7	163.3	162.6	162.5	163.0
175°	166.2	165.5	165.5	165.9	165.2	164.6	164.2	164.2	163.5	163.9	164.2
177.5°	164.9	164.6	164.9	165.3	164.9	164.6	164.6	164.6	164.3	164.6	164.9
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6



TEST NUMBER: P332002-830

CATALOG NUMBER: S123DIP-S1000D365U830-4F0-1E-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°	13.6	13.8	15.5	16.7	18.9	20.5	20.3	19.4	19.1	18.6	18.1
90°	1.3	2.0	3.0	3.7	4.3	5.4	6.3	7.4	8.3	8.0	8.3
92.5°	6.1	9.0	11.5	14.3	19.2	28.0	42.3	56.4	51.2	38.6	28.1
95°	12.3	16.0	21.7	30.3	43.3	71.6	121.2	175.9	197.6	160.2	119.9
97.5°	19.6	22.5	27.4	36.0	50.0	77.1	133.0	224.1	306.1	327.4	298.9
100°	25.0	27.3	32.0	40.0	53.0	76.3	125.5	213.2	315.5	381.1	392.7
102.5°	30.8	32.9	37.3	44.5	56.5	77.4	119.1	197.2	298.1	383.7	423.9
105°	39.7	41.7	45.6	51.9	62.3	80.3	114.6	177.6	267.8	363.4	433.0
107.5°	48.5	50.5	54.4	60.3	69.9	85.8	114.2	165.0	241.0	327.8	406.7
110°	55.0	56.6	60.3	66.0	75.3	90.3	115.6	160.2	225.8	305.5	381.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	60.8	62.5	66.2	71.8	80.9	94.8	118.3	157.5	215.7	286.0	356.9
115°	69.7	71.6	74.9	80.6	89.6	102.3	122.5	156.6	204.8	262.5	324.0
117.5°	78.2	79.9	83.0	89.4	97.6	110.2	128.3	157.1	198.4	248.3	300.3
120°	83.6	85.3	88.6	94.9	103.2	115.3	132.5	158.3	195.5	240.8	287.8
122.5°	88.7	90.3	94.0	100.0	108.9	120.6	136.6	160.0	193.7	234.7	278.0
125°	95.6	97.6	101.2	107.5	116.6	128.3	142.9	162.9	191.1	226.9	264.8
127.5°	101.4	104.0	107.6	114.6	123.7	134.9	148.1	166.1	190.0	219.9	253.4
130°	104.9	107.9	111.9	118.9	127.9	138.9	151.6	168.2	189.2	216.1	246.1
132.5°	107.8	111.1	115.9	122.9	131.7	142.3	154.8	169.8	188.9	212.7	239.5
135°	112.5	116.2	121.2	128.3	137.2	147.5	158.9	172.2	188.5	208.2	230.5
137.5°	117.1	120.6	125.9	132.9	141.2	151.2	161.9	173.8	187.8	204.2	222.3
140°	120.3	123.6	128.9	135.5	143.9	153.5	163.5	174.8	187.6	201.8	217.5
142.5°	123.2	126.8	131.6	138.3	146.0	155.4	165.1	175.7	187.0	199.7	213.0
145°	127.9	130.9	135.9	141.6	149.2	157.9	166.8	176.2	186.2	196.8	207.5
147.5°	132.7	135.6	140.0	145.4	151.9	159.9	168.0	176.2	184.9	194.1	203.0
150°	135.9	138.6	142.9	147.5	153.5	161.2	168.2	176.2	183.9	192.2	199.8
152.5°	139.1	141.8	145.5	149.7	155.4	162.0	168.7	175.4	182.6	190.0	196.9
155°	144.2	146.2	149.6	153.3	157.9	163.5	168.9	174.6	180.2	186.8	192.6
157.5°	148.6	150.2	153.2	156.3	159.9	164.4	169.2	173.4	178.1	183.2	187.8
160°	151.6	152.9	155.5	157.9	161.2	165.2	169.2	172.9	176.5	180.9	185.2
162.5°	153.9	155.0	157.1	159.2	162.0	165.5	168.9	171.8	174.9	178.4	182.0
165°	157.2	157.9	159.6	160.9	163.2	165.9	168.2	170.2	172.6	175.2	177.9
167.5°	159.9	160.2	161.5	162.4	163.9	165.8	167.7	168.6	170.1	172.1	174.3
170°	161.2	161.6	162.5	163.2	163.9	165.5	166.8	167.6	168.5	170.2	171.8
172.5°	162.5	162.6	163.3	163.7	164.1	165.5	166.6	166.7	167.2	168.3	169.8
175°	163.9	163.5	164.2	164.2	164.6	165.2	165.9	165.5	165.5	166.2	166.8
177.5°	164.6	164.3	164.6	164.6	164.6	164.9	165.3	164.9	164.6	164.9	165.0
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6



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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°	17.6	17.2	16.8	17.2	16.8	16.4	17.3
90°	8.7	9.0	9.6	9.3	9.6	10.0	9.6
92.5°	22.2	19.6	17.9	17.3	16.3	16.7	16.0
95°	81.2	63.6	51.7	45.3	42.3	40.0	38.6
97.5°	239.4	196.4	156.7	132.1	117.1	108.0	105.2
100°	365.7	326.8	279.5	245.8	221.5	208.5	208.9
102.5°	423.0	400.3	370.3	344.1	324.9	314.1	306.3
105°	466.3	472.6	464.0	448.7	436.0	425.4	423.7
107.5°	460.8	490.0	501.9	502.2	497.9	494.3	491.3
110°	443.0	484.9	508.3	517.6	520.3	519.6	519.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	419.5	466.6	496.5	513.6	521.9	524.4	524.5
115°	382.0	431.0	467.3	492.3	506.9	513.6	515.3
117.5°	350.3	394.3	431.1	457.2	474.0	483.5	485.8
120°	332.7	372.7	406.3	432.6	451.3	459.3	461.3
122.5°	318.6	355.6	386.9	410.3	427.1	435.8	438.4
125°	301.1	333.1	359.8	381.1	395.7	404.1	406.3
127.5°	285.7	314.5	338.8	357.8	370.3	377.9	379.9
130°	276.2	303.1	325.7	343.4	355.4	362.4	365.0
132.5°	267.0	292.2	313.8	330.4	342.3	348.6	350.4
135°	254.1	275.8	294.7	311.1	321.1	327.1	329.4
137.5°	241.7	260.3	276.8	290.5	300.7	305.7	307.3
140°	234.5	250.4	264.8	277.5	286.8	292.1	291.8
142.5°	227.5	241.4	253.8	264.7	273.0	277.7	277.4
145°	218.5	229.1	238.8	247.1	254.1	256.8	257.5
147.5°	211.8	220.4	227.2	233.6	238.3	240.8	241.1
150°	207.5	214.5	220.8	225.8	229.5	231.5	231.5
152.5°	203.5	209.7	215.0	218.9	222.3	223.5	223.5
155°	197.8	202.8	206.8	209.8	212.5	213.2	213.5
157.5°	192.3	196.1	199.3	201.9	203.9	204.4	204.3
160°	188.9	192.2	194.5	196.8	198.9	198.9	198.5
162.5°	185.1	188.2	190.3	191.8	193.5	193.5	193.2
165°	179.8	182.2	183.9	185.2	186.5	186.2	186.2
167.5°	175.8	177.1	178.3	178.9	179.8	179.6	179.6
170°	172.9	174.2	174.8	175.2	175.9	175.5	175.5
172.5°	170.5	171.5	171.9	172.0	172.7	172.1	171.8
175°	167.2	167.9	167.9	167.9	168.2	167.9	167.6
177.5°	165.3	165.6	165.6	165.3	165.6	165.0	165.0
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6

(END OF REPORT)