

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: P332011-840

Luminaire Tested: **S123DIP-S1000D585U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332011-840
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-S1000D585U840-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 585 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6423.9 lumens
Efficiency: N/A
Efficacy: 131.6 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

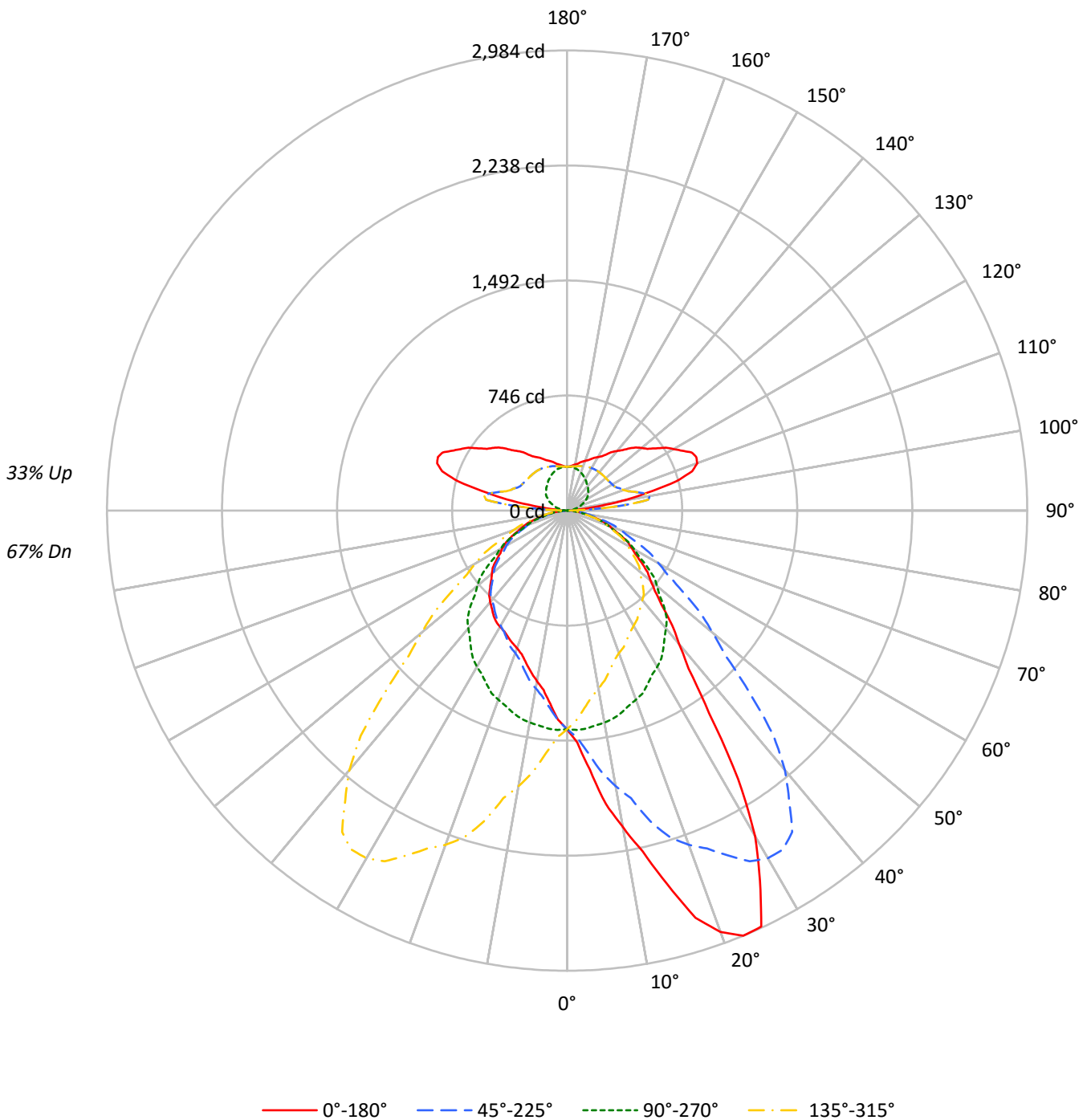
Input Watts (W): 48.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	71	71	71	67
1	102	98	94	90	96	92	89	86	82	79	77	72	71	69	64	62	61	57
2	93	86	80	74	87	81	76	71	72	68	64	64	61	58	57	54	52	48
3	85	76	68	62	80	72	65	60	64	59	54	57	53	49	50	47	45	41
4	78	67	59	53	73	64	56	51	57	51	47	51	46	43	45	42	39	36
5	72	60	52	46	67	57	50	44	51	45	41	46	41	37	41	37	34	31
6	66	54	46	40	62	51	44	38	46	40	36	42	37	33	37	33	30	27
7	61	49	41	35	58	47	39	34	42	36	31	38	33	29	34	30	27	24
8	57	45	37	31	54	42	35	30	38	32	28	35	30	26	31	27	24	22
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	29	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15268	15268	15268	15268
5°	18208	15333	13588	15333
10°	22789	15255	12273	15255
15°	27952	15133	11426	15133
20°	33298	14940	10879	14940
25°	35357	14707	10757	14707
30°	30305	14537	10813	14537
35°	21077	14294	10926	14294
40°	15874	14011	10893	14011
45°	13181	13589	10753	13589
50°	11807	12727	10655	12727
55°	11038	11798	10524	11798
60°	10355	10828	10415	10828
65°	9732	9872	10083	9872
70°	9127	8781	9602	8781
75°	8172	7690	8804	7690
80°	7153	6304	7581	6304
85°	5595	4582	5088	4582



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	2.2
10°-20°	448.0	7.0
20°-30°	751.9	11.7
30°-40°	851.4	13.3
40°-50°	763.5	11.9
50°-60°	616.1	9.6
60°-70°	429.4	6.7
70°-80°	225.7	3.5
80°-90°	57.4	0.9
90°-100°	158.3	2.5
100°-110°	448.4	7.0
110°-120°	441.1	6.9
120°-130°	351.8	5.5
130°-140°	277.4	4.3
140°-150°	207.0	3.2
150°-160°	144.3	2.2
160°-170°	84.8	1.3
170°-180°	27.6	0.4
0°-30°	1339.7	20.9
0°-40°	2191.1	34.1
0°-60°	3570.7	55.6
0°-90°	4283.2	66.7
90°-120°	1047.8	16.3
90°-150°	1884.1	29.3
90°-180°	2141.0	33.3
0°-180°	6423.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1418	1418	1418	1418	1418	
5°	1685	1419	1258	1419	1685	175
15°	2508	1358	1025	1358	2508	724
25°	2977	1238	906	1238	2977	1306
35°	1604	1088	832	1088	1604	1042
45°	866	893	706	893	866	685
55°	588	629	561	629	588	528
65°	382	388	396	388	382	380
75°	196	185	212	185	196	210
85°	45	37	41	37	45	54
90°	17	1	17	1	17	11
95°	67	20	67	20	67	120
105°	733	67	733	67	733	723
115°	891	118	891	118	891	866
125°	703	164	703	164	703	637
135°	570	192	570	192	570	442
145°	445	219	445	219	445	283
155°	369	249	369	249	369	172
165°	322	272	322	272	322	92
175°	290	284	290	284	290	28
180°	285	285	285	285	285	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1505.2	1504.2	1501.4	1503.6	1499.2	1493.2	1492.6	1487.1	1471.2	1470.1	1465.7
5°	1685.1	1679.5	1678.8	1678.2	1668.5	1655.5	1630.7	1628.7	1595.7	1579.2	1559.2
7.5°	1917.8	1920.8	1910.7	1901.9	1872.5	1853.1	1826.5	1792.6	1752.1	1711.0	1683.6
10°	2085.0	2107.7	2079.5	2060.2	2042.4	2008.7	1969.5	1920.8	1872.0	1814.9	1771.6
12.5°	2264.2	2275.3	2269.7	2251.6	2223.8	2172.5	2103.1	2049.4	2004.5	1909.5	1871.1
15°	2508.3	2550.2	2523.5	2461.5	2463.0	2414.2	2323.4	2223.8	2170.9	2087.7	1974.4
17.5°	2768.3	2773.6	2762.2	2710.6	2676.2	2609.2	2525.5	2429.9	2322.8	2222.1	2101.9
20°	2906.9	2902.8	2878.7	2851.9	2792.8	2740.6	2649.2	2542.6	2405.2	2306.2	2175.0
22.5°	2983.8	2977.0	2965.6	2943.2	2894.0	2837.9	2755.8	2639.4	2508.6	2372.3	2220.6
25°	2977.0	2985.9	2987.3	2981.1	2964.0	2930.2	2865.6	2772.9	2642.3	2467.1	2309.1
27.5°	2707.5	2720.3	2756.9	2789.6	2825.9	2863.1	2858.1	2812.1	2715.4	2564.0	2370.9
30°	2438.2	2410.7	2478.7	2564.7	2623.0	2726.1	2783.9	2787.3	2733.0	2603.1	2414.8
32.5°	2064.4	2094.6	2124.7	2230.4	2358.0	2473.8	2588.7	2681.2	2691.8	2605.4	2440.6
35°	1604.0	1641.7	1696.7	1751.7	1889.2	2007.3	2209.4	2385.3	2525.5	2544.1	2443.0
37.5°	1292.5	1311.2	1345.9	1401.1	1491.0	1631.1	1787.5	2009.8	2212.9	2364.0	2370.6
40°	1129.7	1135.3	1174.5	1216.4	1289.2	1404.6	1545.5	1742.0	1985.3	2196.4	2284.3
42.5°	1007.7	1019.8	1036.4	1076.7	1134.7	1221.5	1352.5	1515.0	1738.0	1980.7	2152.8
45°	865.9	879.6	889.9	916.8	958.0	1016.3	1107.8	1256.2	1425.9	1676.8	1908.3
47.5°	772.1	773.3	780.9	801.1	829.2	873.0	937.7	1033.0	1188.8	1392.3	1630.0
50°	705.1	716.1	718.8	734.6	756.6	788.9	842.5	923.6	1051.5	1230.1	1448.7
52.5°	657.8	661.1	668.8	680.2	699.4	724.6	771.0	834.6	934.8	1087.1	1288.1
55°	588.2	588.2	595.8	604.7	615.7	638.4	669.3	716.1	792.3	910.6	1076.8
57.5°	523.9	527.4	532.7	535.4	544.8	559.8	585.6	621.1	678.0	769.0	901.2
60°	481.0	487.3	486.6	492.0	500.3	512.0	533.9	562.8	613.7	686.5	797.9
62.5°	443.6	443.2	443.1	449.7	458.0	469.1	483.4	508.4	551.6	616.1	710.9
65°	382.1	380.7	385.6	389.6	392.4	400.6	411.6	433.6	462.5	510.6	584.1
67.5°	327.4	323.4	326.0	327.4	332.0	338.5	348.8	362.4	385.4	424.0	479.4
70°	290.0	286.6	285.9	287.2	291.3	296.2	303.8	316.8	338.1	369.0	409.6
72.5°	251.6	249.1	249.0	252.1	254.0	257.1	262.5	274.5	291.3	314.6	352.4
75°	196.5	196.5	196.5	197.2	199.2	202.1	206.1	212.4	225.4	241.9	267.3
77.5°	147.3	147.2	146.3	146.2	149.3	150.5	151.5	157.2	164.5	175.6	194.2
80°	115.4	112.0	113.4	115.4	116.8	117.5	119.6	121.0	127.1	133.3	146.3
82.5°	85.7	82.9	83.1	86.3	86.5	87.3	89.4	91.3	93.6	99.3	106.2
85°	45.3	45.3	46.0	46.0	46.8	46.0	48.1	48.8	48.8	52.2	56.4
87.5°	19.8	18.9	19.3	19.7	19.3	19.6	20.0	20.5	20.9	21.6	21.8
90°	16.7	17.3	16.7	16.2	16.7	15.6	14.9	14.4	13.8	14.4	12.6
92.5°	27.8	28.8	28.2	30.0	31.0	34.0	38.5	48.5	66.9	88.6	97.5
95°	66.9	69.1	73.1	78.4	89.3	110.0	140.6	207.3	277.0	341.5	304.2
97.5°	181.9	186.8	202.4	228.3	270.8	339.7	414.0	516.9	566.3	529.4	387.5
100°	361.1	360.6	383.0	425.1	483.2	565.0	632.5	679.1	658.9	545.4	368.6
102.5°	529.8	543.0	561.8	595.1	640.4	692.3	731.5	733.1	663.6	515.5	341.0
105°	732.7	735.6	754.0	775.9	802.3	817.4	806.4	748.8	628.4	463.1	307.0
107.5°	849.5	854.7	861.0	868.4	867.9	847.4	797.0	703.4	566.9	416.8	285.4
110°	897.4	898.6	899.7	895.1	879.0	838.7	766.1	660.0	528.2	390.5	277.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	907.1	906.9	902.5	888.2	858.7	806.9	725.5	617.2	494.5	373.0	272.5
115°	891.1	888.2	876.7	851.3	808.1	745.4	660.7	560.5	453.9	354.3	270.7
117.5°	840.1	836.3	819.6	790.6	745.6	681.9	605.8	519.3	429.4	343.2	271.8
120°	797.8	794.3	780.5	748.2	702.8	644.5	575.4	497.7	416.5	338.1	273.6
122.5°	758.1	753.8	738.5	709.5	669.0	615.0	551.0	480.6	405.9	334.9	276.8
125°	702.8	698.7	684.3	658.9	622.1	576.0	520.7	457.9	392.2	330.6	281.7
127.5°	657.1	653.4	640.4	618.7	585.9	544.0	494.1	438.1	380.3	328.5	287.2
130°	631.3	626.7	614.6	593.9	563.3	524.1	477.5	425.7	373.9	327.2	290.8
132.5°	605.9	602.7	592.0	571.3	542.6	505.2	461.8	414.1	367.8	326.7	293.7
135°	569.7	565.6	555.2	538.0	509.8	477.0	439.5	398.6	360.0	326.0	297.8
137.5°	531.3	528.7	519.9	502.4	478.7	450.2	418.0	384.5	353.3	324.8	300.5
140°	504.5	505.1	495.9	479.8	457.9	433.1	405.5	376.2	349.0	324.3	302.4
142.5°	479.7	480.3	472.0	457.7	439.0	417.5	393.5	368.3	345.4	323.4	303.8
145°	445.2	444.1	439.5	427.4	413.0	396.3	377.9	358.8	340.4	321.9	304.7
147.5°	416.9	416.5	412.0	403.8	392.9	381.1	366.2	351.1	335.6	319.8	304.7
150°	400.3	400.3	396.9	390.5	381.9	370.9	358.8	345.6	332.3	317.9	304.7
152.5°	386.5	386.5	384.5	378.5	371.7	362.6	351.9	340.5	328.7	315.7	303.4
155°	369.2	368.6	367.5	362.8	357.7	350.8	342.1	333.0	323.2	311.6	301.8
157.5°	353.5	353.6	352.6	349.2	344.7	339.3	332.5	324.9	316.9	308.0	299.8
160°	343.3	343.9	343.9	340.4	336.4	332.3	326.6	320.2	312.8	305.3	298.9
162.5°	334.1	334.7	334.7	331.6	329.0	325.5	320.1	314.8	308.6	302.6	297.1
165°	321.9	321.9	322.6	320.2	317.9	315.1	311.0	307.6	303.0	298.4	294.4
167.5°	310.4	310.4	311.0	309.4	308.4	306.3	304.0	301.3	297.6	294.2	291.5
170°	303.6	303.6	304.2	303.0	302.4	301.2	298.9	297.2	294.4	291.4	289.7
172.5°	297.1	297.6	298.6	297.4	297.3	296.6	294.8	293.6	291.1	289.1	288.3
175°	289.7	290.3	290.8	290.3	290.3	290.3	289.1	288.6	287.4	286.3	286.3
177.5°	285.5	285.5	286.4	285.9	286.4	286.4	285.9	285.5	285.0	284.6	285.0
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1462.4	1457.9	1453.6	1445.9	1439.3	1430.0	1427.1	1423.9	1414.0	1405.2	1398.6
5°	1551.7	1535.2	1511.2	1489.1	1471.3	1447.2	1433.5	1419.1	1398.5	1379.9	1364.8
7.5°	1645.2	1612.8	1575.4	1534.9	1497.3	1461.0	1431.7	1405.6	1376.7	1349.4	1328.1
10°	1719.4	1672.6	1620.4	1564.1	1516.0	1469.3	1430.1	1395.7	1358.6	1326.3	1299.5
12.5°	1804.0	1734.7	1662.7	1594.3	1537.4	1472.6	1425.1	1381.4	1339.4	1300.5	1270.4
15°	1904.2	1816.2	1731.1	1636.9	1550.3	1469.3	1412.9	1358.0	1309.1	1269.3	1230.8
17.5°	1995.5	1895.8	1783.5	1669.1	1564.6	1468.4	1389.6	1327.4	1266.4	1217.6	1179.2
20°	2047.2	1933.8	1806.6	1687.8	1572.4	1465.1	1378.6	1304.3	1238.3	1186.8	1143.5
22.5°	2091.7	1959.0	1827.6	1700.4	1571.8	1456.3	1358.2	1281.8	1210.3	1159.8	1113.8
25°	2137.9	1979.1	1847.2	1698.1	1554.5	1434.9	1324.9	1238.3	1166.9	1107.8	1060.4
27.5°	2177.5	1977.8	1821.2	1660.8	1527.2	1407.3	1290.0	1197.1	1121.3	1057.0	1009.0
30°	2203.8	1980.5	1794.3	1635.6	1500.9	1377.2	1263.0	1169.6	1089.9	1024.6	979.3
32.5°	2220.4	1978.8	1769.6	1600.3	1459.1	1349.7	1234.0	1137.2	1055.3	991.1	947.4
35°	2230.0	1966.8	1727.0	1527.6	1391.6	1285.1	1188.2	1087.8	1002.0	942.2	892.7
37.5°	2210.7	1941.4	1677.5	1457.5	1308.6	1203.7	1122.2	1036.7	954.5	888.7	846.1
40°	2180.5	1924.9	1639.0	1408.1	1251.4	1150.3	1081.0	997.1	916.0	853.5	813.6
42.5°	2122.7	1891.3	1596.7	1353.1	1192.0	1091.0	1027.1	957.0	880.3	821.6	781.7
45°	1981.9	1818.4	1533.2	1270.6	1104.3	999.9	943.5	892.7	823.2	766.2	731.8
47.5°	1786.5	1708.5	1441.4	1183.7	1012.8	912.3	853.7	812.8	762.1	716.1	683.1
50°	1650.6	1618.4	1379.2	1124.3	951.8	853.5	797.2	760.0	723.7	677.6	647.3
52.5°	1494.0	1513.9	1306.7	1062.7	889.7	793.0	740.0	710.5	677.4	639.6	613.3
55°	1273.4	1345.5	1181.3	959.4	797.2	705.1	654.9	628.7	609.6	581.4	558.7
57.5°	1066.8	1158.6	1045.8	852.8	706.3	626.8	578.8	550.3	538.0	523.2	505.3
60°	944.2	1034.9	949.1	781.3	645.3	569.7	527.0	503.0	490.7	480.4	465.2
62.5°	834.9	926.7	854.4	708.8	585.3	515.2	478.2	454.6	445.0	439.7	426.8
65°	684.5	763.5	715.4	595.8	499.6	437.8	404.0	387.6	378.7	376.6	368.3
67.5°	557.0	617.2	582.2	494.2	418.5	365.1	336.5	322.4	315.6	314.9	308.7
70°	473.5	529.9	503.0	423.3	358.0	316.1	291.3	279.0	274.9	274.2	270.7
72.5°	408.6	447.9	426.6	360.1	309.6	271.6	253.5	240.5	235.8	236.8	234.5
75°	302.4	331.9	319.5	273.5	233.0	208.2	193.1	184.9	180.8	182.8	180.1
77.5°	217.5	236.3	225.1	193.3	168.2	150.4	139.3	134.1	130.5	130.3	129.1
80°	164.2	175.2	169.1	149.8	129.2	114.1	105.1	101.7	99.7	99.0	98.3
82.5°	116.9	126.3	119.1	105.8	91.8	82.7	77.7	73.1	71.6	72.0	71.3
85°	59.1	62.5	59.8	51.5	46.0	41.9	39.2	37.1	35.7	36.5	35.0
87.5°	22.5	22.7	20.7	18.3	17.0	14.9	14.7	13.4	12.5	12.8	12.6
90°	10.9	9.2	7.5	6.4	5.2	3.4	2.3	1.1	2.3	3.4	5.2
92.5°	73.1	48.4	33.3	24.7	19.9	15.5	10.6	7.2	10.6	15.5	19.9
95°	209.6	123.8	74.8	52.4	37.5	27.7	21.3	19.6	21.3	27.7	37.5
97.5°	230.0	133.3	86.5	62.2	47.5	39.0	34.0	33.4	34.0	39.0	47.5
100°	217.1	131.9	91.6	69.1	55.3	47.3	43.2	42.6	43.2	47.3	55.3
102.5°	206.1	133.7	97.6	77.0	64.5	57.0	53.3	52.3	53.3	57.0	64.5
105°	198.1	138.9	107.8	89.9	78.9	72.0	68.6	66.9	68.6	72.0	78.9
107.5°	197.5	148.2	121.0	104.4	94.1	87.4	84.0	82.2	84.0	87.4	94.1
110°	199.9	156.1	130.2	114.0	104.2	98.0	95.0	93.3	95.0	98.0	104.2



TEST NUMBER: P332011-840

CATALOG NUMBER: S123DIP-S1000D585U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	204.5	163.9	139.9	124.2	114.4	108.1	105.2	103.4	105.2	108.1	114.4
115°	212.0	176.8	154.9	139.4	129.6	123.8	120.4	118.1	120.4	123.8	129.6
117.5°	221.9	190.6	168.8	154.5	143.5	138.3	135.3	132.7	135.3	138.3	143.5
120°	229.2	199.2	178.5	164.2	153.2	147.4	144.6	142.9	144.6	147.4	153.2
122.5°	236.2	208.5	188.2	172.9	162.4	156.2	153.3	151.6	153.3	156.2	162.4
125°	247.1	221.8	201.6	186.0	175.1	168.7	165.3	164.2	165.3	168.7	175.1
127.5°	256.1	233.3	213.8	198.2	186.1	179.8	175.4	173.7	175.4	179.8	186.1
130°	262.1	240.1	221.2	205.6	193.5	186.6	181.5	179.8	181.5	186.6	193.5
132.5°	267.6	246.2	227.6	212.6	200.5	192.2	186.5	184.3	186.5	192.2	200.5
135°	274.8	255.2	237.3	221.8	209.6	201.1	194.7	192.4	194.7	201.1	209.6
137.5°	280.0	261.4	244.2	229.8	217.8	208.6	202.4	200.0	202.4	208.6	217.8
140°	282.9	265.5	248.8	234.4	222.9	213.7	207.9	205.1	207.9	213.7	222.9
142.5°	285.6	268.7	252.6	239.0	227.5	219.2	213.0	210.6	213.0	219.2	227.5
145°	288.6	273.1	258.0	244.8	235.0	226.4	221.2	219.4	221.2	226.4	235.0
147.5°	290.4	276.5	262.8	251.5	242.1	234.6	229.4	228.4	229.4	234.6	242.1
150°	290.8	278.8	265.5	255.2	247.1	239.6	235.0	234.4	235.0	239.6	247.1
152.5°	291.9	280.1	268.7	258.8	251.8	245.2	240.5	240.4	240.5	245.2	251.8
155°	292.1	282.9	273.1	265.0	258.6	252.9	249.4	249.4	249.4	252.9	258.6
157.5°	292.7	284.3	276.5	270.2	264.9	259.7	257.0	256.5	257.0	259.7	264.9
160°	292.7	285.7	278.8	273.1	269.0	264.4	262.1	262.1	262.1	264.4	269.0
162.5°	292.2	286.2	280.1	275.3	271.8	268.1	266.2	266.2	266.2	268.1	271.8
165°	290.8	286.8	282.3	278.2	275.9	273.1	271.9	272.5	271.9	273.1	275.9
167.5°	289.9	286.7	283.4	280.8	279.2	277.0	276.5	277.2	276.5	277.0	279.2
170°	288.6	286.3	283.4	282.3	281.0	279.3	278.8	279.9	278.8	279.3	281.0
172.5°	288.1	286.3	283.9	283.2	282.5	281.2	281.0	281.8	281.0	281.2	282.5
175°	286.8	285.7	284.6	284.0	284.0	282.9	283.4	284.0	283.4	282.9	284.0
177.5°	285.9	285.0	284.6	284.6	284.6	284.1	284.6	285.0	284.6	284.1	284.6
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6



TEST NUMBER: P332011-840

CATALOG NUMBER: S123DIP-S1000D585U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1394.7	1390.9	1385.4	1377.2	1370.6	1360.1	1360.1	1361.8	1361.8	1361.2	1360.1
5°	1352.4	1342.1	1329.8	1315.3	1300.2	1285.1	1282.3	1276.9	1272.7	1269.9	1266.5
7.5°	1307.8	1289.5	1271.4	1251.2	1232.8	1217.6	1207.0	1198.2	1192.5	1186.5	1182.1
10°	1277.5	1254.9	1233.6	1212.2	1188.8	1170.3	1158.6	1150.3	1144.2	1138.7	1136.0
12.5°	1241.7	1215.8	1192.3	1172.0	1146.5	1127.4	1116.3	1112.5	1105.2	1093.6	1087.5
15°	1189.5	1165.5	1137.3	1106.4	1094.0	1070.7	1057.6	1051.5	1047.3	1038.3	1035.6
17.5°	1144.9	1113.4	1081.8	1058.7	1035.7	1016.8	1009.5	1001.8	996.3	989.1	986.8
20°	1109.1	1081.0	1052.1	1027.3	1003.3	982.7	976.5	971.0	965.5	962.1	959.4
22.5°	1072.9	1044.7	1020.8	997.6	972.0	958.5	951.8	945.7	941.9	939.6	936.8
25°	1021.9	997.1	970.4	949.7	929.1	920.2	916.0	912.6	909.9	906.5	905.7
27.5°	976.2	949.3	927.6	908.4	893.5	886.1	882.1	880.4	881.0	882.2	883.0
30°	942.2	917.5	899.6	883.0	869.3	862.4	861.7	861.7	864.5	865.2	866.6
32.5°	910.8	890.5	872.6	856.7	846.3	841.5	844.1	844.1	846.4	848.2	850.6
35°	865.2	847.3	833.5	819.8	810.9	812.9	814.4	815.7	819.1	823.2	826.1
37.5°	821.6	806.1	791.8	781.0	777.0	780.6	784.0	786.9	790.8	794.0	796.8
40°	790.3	778.6	764.9	755.3	756.6	758.7	761.4	764.9	768.3	770.3	773.2
42.5°	761.1	748.9	738.5	730.5	732.5	735.1	736.7	738.5	742.5	746.2	747.8
45°	716.8	707.1	697.5	692.7	694.1	695.5	696.8	698.9	702.4	705.1	705.8
47.5°	666.8	660.1	653.7	649.0	651.2	650.7	652.5	656.8	657.9	659.5	663.4
50°	635.0	628.7	621.3	619.9	619.9	619.9	620.6	626.0	626.0	628.7	631.6
52.5°	599.8	595.8	591.0	588.5	587.4	587.4	590.3	593.1	594.2	598.0	600.8
55°	547.8	543.6	539.5	537.3	536.0	537.3	542.9	544.2	547.8	549.8	551.8
57.5°	493.4	490.3	487.0	485.8	485.5	487.4	490.4	494.5	495.3	501.7	504.8
60°	457.7	452.8	450.1	450.1	448.8	454.9	453.5	460.4	461.8	466.0	470.7
62.5°	420.8	414.3	413.2	413.2	415.3	417.0	418.9	421.9	425.6	430.7	434.4
65°	361.4	358.0	362.8	362.1	360.8	364.9	364.9	368.3	372.4	377.3	384.9
67.5°	305.3	303.5	303.9	303.9	306.0	308.3	310.2	313.3	318.2	323.3	328.2
70°	267.3	269.4	266.0	268.7	270.7	271.5	272.9	276.9	282.5	285.9	291.3
72.5°	230.5	230.4	230.8	231.9	233.9	235.2	236.5	241.3	247.2	250.1	254.6
75°	177.3	176.6	178.6	178.6	182.1	183.5	184.9	186.9	192.4	196.5	200.0
77.5°	129.5	130.3	129.9	132.2	131.3	131.5	135.8	137.8	138.5	146.5	148.3
80°	97.6	99.0	99.7	100.4	101.0	99.7	104.4	106.5	106.5	111.3	114.7
82.5°	70.1	70.9	72.7	73.4	73.5	74.9	75.3	76.9	78.5	80.6	85.0
85°	35.0	37.1	37.8	37.1	37.8	36.5	38.5	39.2	39.9	39.9	39.9
87.5°	12.2	13.0	12.8	13.7	13.5	14.4	14.3	13.3	13.4	15.2	13.2
90°	6.4	7.5	9.2	10.9	12.6	14.4	13.8	14.4	14.9	15.6	16.7
92.5°	24.7	33.3	48.4	73.1	97.5	88.6	66.9	48.5	38.5	34.0	31.0
95°	52.4	74.8	123.8	209.6	304.2	341.5	277.0	207.3	140.6	110.0	89.3
97.5°	62.2	86.5	133.3	230.0	387.5	529.4	566.3	516.9	414.0	339.7	270.8
100°	69.1	91.6	131.9	217.1	368.6	545.4	658.9	679.1	632.5	565.0	483.2
102.5°	77.0	97.6	133.7	206.1	341.0	515.5	663.6	733.1	731.5	692.3	640.4
105°	89.9	107.8	138.9	198.1	307.0	463.1	628.4	748.8	806.4	817.4	802.3
107.5°	104.4	121.0	148.2	197.5	285.4	416.8	566.9	703.4	797.0	847.4	867.9
110°	114.0	130.2	156.1	199.9	277.0	390.5	528.2	660.0	766.1	838.7	879.0



TEST NUMBER: P332011-840

CATALOG NUMBER: S123DIP-S1000D585U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	124.2	139.9	163.9	204.5	272.5	373.0	494.5	617.2	725.5	806.9	858.7
115°	139.4	154.9	176.8	212.0	270.7	354.3	453.9	560.5	660.7	745.4	808.1
117.5°	154.5	168.8	190.6	221.9	271.8	343.2	429.4	519.3	605.8	681.9	745.6
120°	164.2	178.5	199.2	229.2	273.6	338.1	416.5	497.7	575.4	644.5	702.8
122.5°	172.9	188.2	208.5	236.2	276.8	334.9	405.9	480.6	551.0	615.0	669.0
125°	186.0	201.6	221.8	247.1	281.7	330.6	392.2	457.9	520.7	576.0	622.1
127.5°	198.2	213.8	233.3	256.1	287.2	328.5	380.3	438.1	494.1	544.0	585.9
130°	205.6	221.2	240.1	262.1	290.8	327.2	373.9	425.7	477.5	524.1	563.3
132.5°	212.6	227.6	246.2	267.6	293.7	326.7	367.8	414.1	461.8	505.2	542.6
135°	221.8	237.3	255.2	274.8	297.8	326.0	360.0	398.6	439.5	477.0	509.8
137.5°	229.8	244.2	261.4	280.0	300.5	324.8	353.3	384.5	418.0	450.2	478.7
140°	234.4	248.8	265.5	282.9	302.4	324.3	349.0	376.2	405.5	433.1	457.9
142.5°	239.0	252.6	268.7	285.6	303.8	323.4	345.4	368.3	393.5	417.5	439.0
145°	244.8	258.0	273.1	288.6	304.7	321.9	340.4	358.8	377.9	396.3	413.0
147.5°	251.5	262.8	276.5	290.4	304.7	319.8	335.6	351.1	366.2	381.1	392.9
150°	255.2	265.5	278.8	290.8	304.7	317.9	332.3	345.6	358.8	370.9	381.9
152.5°	258.8	268.7	280.1	291.9	303.4	315.7	328.7	340.5	351.9	362.6	371.7
155°	265.0	273.1	282.9	292.1	301.8	311.6	323.2	333.0	342.1	350.8	357.7
157.5°	270.2	276.5	284.3	292.7	299.8	308.0	316.9	324.9	332.5	339.3	344.7
160°	273.1	278.8	285.7	292.7	298.9	305.3	312.8	320.2	326.6	332.3	336.4
162.5°	275.3	280.1	286.2	292.2	297.1	302.6	308.6	314.8	320.1	325.5	329.0
165°	278.2	282.3	286.8	290.8	294.4	298.4	303.0	307.6	311.0	315.1	317.9
167.5°	280.8	283.4	286.7	289.9	291.5	294.2	297.6	301.3	304.0	306.3	308.4
170°	282.3	283.4	286.3	288.6	289.7	291.4	294.4	297.2	298.9	301.2	302.4
172.5°	283.2	283.9	286.3	288.1	288.3	289.1	291.1	293.6	294.8	296.6	297.3
175°	284.0	284.6	285.7	286.8	286.3	286.3	287.4	288.6	289.1	290.3	290.3
177.5°	284.6	284.6	285.0	285.9	285.0	284.6	285.0	285.5	285.9	286.4	286.4
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6



TEST NUMBER: P332011-840

CATALOG NUMBER: S123DIP-S1000D585U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1356.2	1355.7	1359.6	1356.9	1359.6	1355.7	1356.2	1360.1	1361.2	1361.8	1361.8
5°	1262.4	1264.5	1257.6	1257.6	1257.6	1264.5	1262.4	1266.5	1269.9	1272.7	1276.9
7.5°	1178.8	1175.8	1176.1	1172.4	1176.1	1175.8	1178.8	1182.1	1186.5	1192.5	1198.2
10°	1127.7	1123.6	1122.2	1122.9	1122.2	1123.6	1127.7	1136.0	1138.7	1144.2	1150.3
12.5°	1085.4	1084.6	1075.5	1075.6	1075.5	1084.6	1085.4	1087.5	1093.6	1105.2	1112.5
15°	1035.6	1022.6	1021.2	1025.3	1021.2	1022.6	1035.6	1035.6	1038.3	1047.3	1051.5
17.5°	985.7	978.9	979.3	977.2	979.3	978.9	985.7	986.8	989.1	996.3	1001.8
20°	959.4	955.2	954.5	949.7	954.5	955.2	959.4	959.4	962.1	965.5	971.0
22.5°	935.1	933.8	934.2	928.9	934.2	933.8	935.1	936.8	939.6	941.9	945.7
25°	905.0	908.5	905.7	905.7	905.7	908.5	905.0	905.7	906.5	909.9	912.6
27.5°	884.7	884.5	883.2	883.2	883.2	884.5	884.7	883.0	882.2	881.0	880.4
30°	869.3	868.6	870.0	870.0	870.0	868.6	869.3	866.6	865.2	864.5	861.7
32.5°	853.9	854.9	855.2	855.7	855.2	854.9	853.9	850.6	848.2	846.4	844.1
35°	830.1	830.8	832.9	831.5	832.9	830.8	830.1	826.1	823.2	819.1	815.7
37.5°	798.0	801.1	800.4	801.5	800.4	801.1	798.0	796.8	794.0	790.8	786.9
40°	773.8	775.9	775.2	775.2	775.2	775.9	773.8	773.2	770.3	768.3	764.9
42.5°	749.0	750.5	748.8	747.7	748.8	750.5	749.0	747.8	746.2	742.5	738.5
45°	708.5	707.1	709.2	706.4	709.2	707.1	708.5	705.8	705.1	702.4	698.9
47.5°	663.2	664.5	665.1	667.1	665.1	664.5	663.2	663.4	659.5	657.9	656.8
50°	632.9	637.0	637.0	636.3	637.0	637.0	632.9	631.6	628.7	626.0	626.0
52.5°	603.2	605.1	607.9	607.7	607.9	605.1	603.2	600.8	598.0	594.2	593.1
55°	557.3	558.7	560.1	560.8	560.1	558.7	557.3	551.8	549.8	547.8	544.2
57.5°	509.8	509.2	512.5	513.5	512.5	509.2	509.8	504.8	501.7	495.3	494.5
60°	476.3	476.3	481.7	483.8	481.7	476.3	476.3	470.7	466.0	461.8	460.4
62.5°	440.5	442.7	448.2	445.4	448.2	442.7	440.5	434.4	430.7	425.6	421.9
65°	388.3	393.7	393.0	395.9	393.0	393.7	388.3	384.9	377.3	372.4	368.3
67.5°	333.7	337.1	342.0	342.5	342.0	337.1	333.7	328.2	323.3	318.2	313.3
70°	296.9	300.3	303.1	305.1	303.1	300.3	296.9	291.3	285.9	282.5	276.9
72.5°	261.2	263.0	269.5	266.6	269.5	263.0	261.2	254.6	250.1	247.2	241.3
75°	204.8	209.5	213.7	211.7	213.7	209.5	204.8	200.0	196.5	192.4	186.9
77.5°	151.5	156.2	158.1	156.4	158.1	156.2	151.5	148.3	146.5	138.5	137.8
80°	119.6	118.9	123.0	122.3	123.0	118.9	119.6	114.7	111.3	106.5	106.5
82.5°	87.7	87.1	89.0	89.4	89.0	87.1	87.7	85.0	80.6	78.5	76.9
85°	42.6	44.6	41.9	41.2	41.9	44.6	42.6	39.9	39.9	39.9	39.2
87.5°	13.1	13.2	12.8	12.1	12.8	13.2	13.1	13.2	15.2	13.4	13.3
90°	16.2	16.7	17.3	16.7	17.3	16.7	16.2	16.7	15.6	14.9	14.4
92.5°	30.0	28.2	28.8	27.8	28.8	28.2	30.0	31.0	34.0	38.5	48.5
95°	78.4	73.1	69.1	66.9	69.1	73.1	78.4	89.3	110.0	140.6	207.3
97.5°	228.3	202.4	186.8	181.9	186.8	202.4	228.3	270.8	339.7	414.0	516.9
100°	425.1	383.0	360.6	361.1	360.6	383.0	425.1	483.2	565.0	632.5	679.1
102.5°	595.1	561.8	543.0	529.8	543.0	561.8	595.1	640.4	692.3	731.5	733.1
105°	775.9	754.0	735.6	732.7	735.6	754.0	775.9	802.3	817.4	806.4	748.8
107.5°	868.4	861.0	854.7	849.5	854.7	861.0	868.4	867.9	847.4	797.0	703.4
110°	895.1	899.7	898.6	897.4	898.6	899.7	895.1	879.0	838.7	766.1	660.0



TEST NUMBER: P332011-840

CATALOG NUMBER: S123DIP-S1000D585U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	888.2	902.5	906.9	907.1	906.9	902.5	888.2	858.7	806.9	725.5	617.2
115°	851.3	876.7	888.2	891.1	888.2	876.7	851.3	808.1	745.4	660.7	560.5
117.5°	790.6	819.6	836.3	840.1	836.3	819.6	790.6	745.6	681.9	605.8	519.3
120°	748.2	780.5	794.3	797.8	794.3	780.5	748.2	702.8	644.5	575.4	497.7
122.5°	709.5	738.5	753.8	758.1	753.8	738.5	709.5	669.0	615.0	551.0	480.6
125°	658.9	684.3	698.7	702.8	698.7	684.3	658.9	622.1	576.0	520.7	457.9
127.5°	618.7	640.4	653.4	657.1	653.4	640.4	618.7	585.9	544.0	494.1	438.1
130°	593.9	614.6	626.7	631.3	626.7	614.6	593.9	563.3	524.1	477.5	425.7
132.5°	571.3	592.0	602.7	605.9	602.7	592.0	571.3	542.6	505.2	461.8	414.1
135°	538.0	555.2	565.6	569.7	565.6	555.2	538.0	509.8	477.0	439.5	398.6
137.5°	502.4	519.9	528.7	531.3	528.7	519.9	502.4	478.7	450.2	418.0	384.5
140°	479.8	495.9	505.1	504.5	505.1	495.9	479.8	457.9	433.1	405.5	376.2
142.5°	457.7	472.0	480.3	479.7	480.3	472.0	457.7	439.0	417.5	393.5	368.3
145°	427.4	439.5	444.1	445.2	444.1	439.5	427.4	413.0	396.3	377.9	358.8
147.5°	403.8	412.0	416.5	416.9	416.5	412.0	403.8	392.9	381.1	366.2	351.1
150°	390.5	396.9	400.3	400.3	400.3	396.9	390.5	381.9	370.9	358.8	345.6
152.5°	378.5	384.5	386.5	386.5	386.5	384.5	378.5	371.7	362.6	351.9	340.5
155°	362.8	367.5	368.6	369.2	368.6	367.5	362.8	357.7	350.8	342.1	333.0
157.5°	349.2	352.6	353.6	353.5	353.6	352.6	349.2	344.7	339.3	332.5	324.9
160°	340.4	343.9	343.9	343.3	343.9	343.9	340.4	336.4	332.3	326.6	320.2
162.5°	331.6	334.7	334.7	334.1	334.7	334.7	331.6	329.0	325.5	320.1	314.8
165°	320.2	322.6	321.9	321.9	321.9	322.6	320.2	317.9	315.1	311.0	307.6
167.5°	309.4	311.0	310.4	310.4	310.4	311.0	309.4	308.4	306.3	304.0	301.3
170°	303.0	304.2	303.6	303.6	303.6	304.2	303.0	302.4	301.2	298.9	297.2
172.5°	297.4	298.6	297.6	297.1	297.6	298.6	297.4	297.3	296.6	294.8	293.6
175°	290.3	290.8	290.3	289.7	290.3	290.8	290.3	290.3	290.3	289.1	288.6
177.5°	285.9	286.4	285.5	285.5	285.5	286.4	285.9	286.4	286.4	285.9	285.5
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6



TEST NUMBER: P332011-840

CATALOG NUMBER: S123DIP-S1000D585U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1360.1	1360.1	1370.6	1377.2	1385.4	1390.9	1394.7	1398.6	1405.2	1414.0	1423.9
5°	1282.3	1285.1	1300.2	1315.3	1329.8	1342.1	1352.4	1364.8	1379.9	1398.5	1419.1
7.5°	1207.0	1217.6	1232.8	1251.2	1271.4	1289.5	1307.8	1328.1	1349.4	1376.7	1405.6
10°	1158.6	1170.3	1188.8	1212.2	1233.6	1254.9	1277.5	1299.5	1326.3	1358.6	1395.7
12.5°	1116.3	1127.4	1146.5	1172.0	1192.3	1215.8	1241.7	1270.4	1300.5	1339.4	1381.4
15°	1057.6	1070.7	1094.0	1106.4	1137.3	1165.5	1189.5	1230.8	1269.3	1309.1	1358.0
17.5°	1009.5	1016.8	1035.7	1058.7	1081.8	1113.4	1144.9	1179.2	1217.6	1266.4	1327.4
20°	976.5	982.7	1003.3	1027.3	1052.1	1081.0	1109.1	1143.5	1186.8	1238.3	1304.3
22.5°	951.8	958.5	972.0	997.6	1020.8	1044.7	1072.9	1113.8	1159.8	1210.3	1281.8
25°	916.0	920.2	929.1	949.7	970.4	997.1	1021.9	1060.4	1107.8	1166.9	1238.3
27.5°	882.1	886.1	893.5	908.4	927.6	949.3	976.2	1009.0	1057.0	1121.3	1197.1
30°	861.7	862.4	869.3	883.0	899.6	917.5	942.2	979.3	1024.6	1089.9	1169.6
32.5°	844.1	841.5	846.3	856.7	872.6	890.5	910.8	947.4	991.1	1055.3	1137.2
35°	814.4	812.9	810.9	819.8	833.5	847.3	865.2	892.7	942.2	1002.0	1087.8
37.5°	784.0	780.6	777.0	781.0	791.8	806.1	821.6	846.1	888.7	954.5	1036.7
40°	761.4	758.7	756.6	755.3	764.9	778.6	790.3	813.6	853.5	916.0	997.1
42.5°	736.7	735.1	732.5	730.5	738.5	748.9	761.1	781.7	821.6	880.3	957.0
45°	696.8	695.5	694.1	692.7	697.5	707.1	716.8	731.8	766.2	823.2	892.7
47.5°	652.5	650.7	651.2	649.0	653.7	660.1	666.8	683.1	716.1	762.1	812.8
50°	620.6	619.9	619.9	619.9	621.3	628.7	635.0	647.3	677.6	723.7	760.0
52.5°	590.3	587.4	587.4	588.5	591.0	595.8	599.8	613.3	639.6	677.4	710.5
55°	542.9	537.3	536.0	537.3	539.5	543.6	547.8	558.7	581.4	609.6	628.7
57.5°	490.4	487.4	485.5	485.8	487.0	490.3	493.4	505.3	523.2	538.0	550.3
60°	453.5	454.9	448.8	450.1	450.1	452.8	457.7	465.2	480.4	490.7	503.0
62.5°	418.9	417.0	415.3	413.2	413.2	414.3	420.8	426.8	439.7	445.0	454.6
65°	364.9	364.9	360.8	362.1	362.8	358.0	361.4	368.3	376.6	378.7	387.6
67.5°	310.2	308.3	306.0	303.9	303.9	303.5	305.3	308.7	314.9	315.6	322.4
70°	272.9	271.5	270.7	268.7	266.0	269.4	267.3	270.7	274.2	274.9	279.0
72.5°	236.5	235.2	233.9	231.9	230.8	230.4	230.5	234.5	236.8	235.8	240.5
75°	184.9	183.5	182.1	178.6	178.6	176.6	177.3	180.1	182.8	180.8	184.9
77.5°	135.8	131.5	131.3	132.2	129.9	130.3	129.5	129.1	130.3	130.5	134.1
80°	104.4	99.7	101.0	100.4	99.7	99.0	97.6	98.3	99.0	99.7	101.7
82.5°	75.3	74.9	73.5	73.4	72.7	70.9	70.1	71.3	72.0	71.6	73.1
85°	38.5	36.5	37.8	37.1	37.8	37.1	35.0	35.0	36.5	35.7	37.1
87.5°	14.3	14.4	13.5	13.7	12.8	13.0	12.2	12.6	12.8	12.5	13.4
90°	13.8	14.4	12.6	10.9	9.2	7.5	6.4	5.2	3.4	2.3	1.1
92.5°	66.9	88.6	97.5	73.1	48.4	33.3	24.7	19.9	15.5	10.6	7.2
95°	277.0	341.5	304.2	209.6	123.8	74.8	52.4	37.5	27.7	21.3	19.6
97.5°	566.3	529.4	387.5	230.0	133.3	86.5	62.2	47.5	39.0	34.0	33.4
100°	658.9	545.4	368.6	217.1	131.9	91.6	69.1	55.3	47.3	43.2	42.6
102.5°	663.6	515.5	341.0	206.1	133.7	97.6	77.0	64.5	57.0	53.3	52.3
105°	628.4	463.1	307.0	198.1	138.9	107.8	89.9	78.9	72.0	68.6	66.9
107.5°	566.9	416.8	285.4	197.5	148.2	121.0	104.4	94.1	87.4	84.0	82.2
110°	528.2	390.5	277.0	199.9	156.1	130.2	114.0	104.2	98.0	95.0	93.3



TEST NUMBER: P332011-840

CATALOG NUMBER: S123DIP-S1000D585U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	494.5	373.0	272.5	204.5	163.9	139.9	124.2	114.4	108.1	105.2	103.4
115°	453.9	354.3	270.7	212.0	176.8	154.9	139.4	129.6	123.8	120.4	118.1
117.5°	429.4	343.2	271.8	221.9	190.6	168.8	154.5	143.5	138.3	135.3	132.7
120°	416.5	338.1	273.6	229.2	199.2	178.5	164.2	153.2	147.4	144.6	142.9
122.5°	405.9	334.9	276.8	236.2	208.5	188.2	172.9	162.4	156.2	153.3	151.6
125°	392.2	330.6	281.7	247.1	221.8	201.6	186.0	175.1	168.7	165.3	164.2
127.5°	380.3	328.5	287.2	256.1	233.3	213.8	198.2	186.1	179.8	175.4	173.7
130°	373.9	327.2	290.8	262.1	240.1	221.2	205.6	193.5	186.6	181.5	179.8
132.5°	367.8	326.7	293.7	267.6	246.2	227.6	212.6	200.5	192.2	186.5	184.3
135°	360.0	326.0	297.8	274.8	255.2	237.3	221.8	209.6	201.1	194.7	192.4
137.5°	353.3	324.8	300.5	280.0	261.4	244.2	229.8	217.8	208.6	202.4	200.0
140°	349.0	324.3	302.4	282.9	265.5	248.8	234.4	222.9	213.7	207.9	205.1
142.5°	345.4	323.4	303.8	285.6	268.7	252.6	239.0	227.5	219.2	213.0	210.6
145°	340.4	321.9	304.7	288.6	273.1	258.0	244.8	235.0	226.4	221.2	219.4
147.5°	335.6	319.8	304.7	290.4	276.5	262.8	251.5	242.1	234.6	229.4	228.4
150°	332.3	317.9	304.7	290.8	278.8	265.5	255.2	247.1	239.6	235.0	234.4
152.5°	328.7	315.7	303.4	291.9	280.1	268.7	258.8	251.8	245.2	240.5	240.4
155°	323.2	311.6	301.8	292.1	282.9	273.1	265.0	258.6	252.9	249.4	249.4
157.5°	316.9	308.0	299.8	292.7	284.3	276.5	270.2	264.9	259.7	257.0	256.5
160°	312.8	305.3	298.9	292.7	285.7	278.8	273.1	269.0	264.4	262.1	262.1
162.5°	308.6	302.6	297.1	292.2	286.2	280.1	275.3	271.8	268.1	266.2	266.2
165°	303.0	298.4	294.4	290.8	286.8	282.3	278.2	275.9	273.1	271.9	272.5
167.5°	297.6	294.2	291.5	289.9	286.7	283.4	280.8	279.2	277.0	276.5	277.2
170°	294.4	291.4	289.7	288.6	286.3	283.4	282.3	281.0	279.3	278.8	279.9
172.5°	291.1	289.1	288.3	288.1	286.3	283.9	283.2	282.5	281.2	281.0	281.8
175°	287.4	286.3	286.3	286.8	285.7	284.6	284.0	284.0	282.9	283.4	284.0
177.5°	285.0	284.6	285.0	285.9	285.0	284.6	284.6	284.6	284.1	284.6	285.0
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6



TEST NUMBER: P332011-840

CATALOG NUMBER: S123DIP-S1000D585U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1427.1	1430.0	1439.3	1445.9	1453.6	1457.9	1462.4	1465.7	1470.1	1471.2	1487.1
5°	1433.5	1447.2	1471.3	1489.1	1511.2	1535.2	1551.7	1559.2	1579.2	1595.7	1628.7
7.5°	1431.7	1461.0	1497.3	1534.9	1575.4	1612.8	1645.2	1683.6	1711.0	1752.1	1792.6
10°	1430.1	1469.3	1516.0	1564.1	1620.4	1672.6	1719.4	1771.6	1814.9	1872.0	1920.8
12.5°	1425.1	1472.6	1537.4	1594.3	1662.7	1734.7	1804.0	1871.1	1909.5	2004.5	2049.4
15°	1412.9	1469.3	1550.3	1636.9	1731.1	1816.2	1904.2	1974.4	2087.7	2170.9	2223.8
17.5°	1389.6	1468.4	1564.6	1669.1	1783.5	1895.8	1995.5	2101.9	2222.1	2322.8	2429.9
20°	1378.6	1465.1	1572.4	1687.8	1806.6	1933.8	2047.2	2175.0	2306.2	2405.2	2542.6
22.5°	1358.2	1456.3	1571.8	1700.4	1827.6	1959.0	2091.7	2220.6	2372.3	2508.6	2639.4
25°	1324.9	1434.9	1554.5	1698.1	1847.2	1979.1	2137.9	2309.1	2467.1	2642.3	2772.9
27.5°	1290.0	1407.3	1527.2	1660.8	1821.2	1977.8	2177.5	2370.9	2564.0	2715.4	2812.1
30°	1263.0	1377.2	1500.9	1635.6	1794.3	1980.5	2203.8	2414.8	2603.1	2733.0	2787.3
32.5°	1234.0	1349.7	1459.1	1600.3	1769.6	1978.8	2220.4	2440.6	2605.4	2691.8	2681.2
35°	1188.2	1285.1	1391.6	1527.6	1727.0	1966.8	2230.0	2443.0	2544.1	2525.5	2385.3
37.5°	1122.2	1203.7	1308.6	1457.5	1677.5	1941.4	2210.7	2370.6	2364.0	2212.9	2009.8
40°	1081.0	1150.3	1251.4	1408.1	1639.0	1924.9	2180.5	2284.3	2196.4	1985.3	1742.0
42.5°	1027.1	1091.0	1192.0	1353.1	1596.7	1891.3	2122.7	2152.8	1980.7	1738.0	1515.0
45°	943.5	999.9	1104.3	1270.6	1533.2	1818.4	1981.9	1908.3	1676.8	1425.9	1256.2
47.5°	853.7	912.3	1012.8	1183.7	1441.4	1708.5	1786.5	1630.0	1392.3	1188.8	1033.0
50°	797.2	853.5	951.8	1124.3	1379.2	1618.4	1650.6	1448.7	1230.1	1051.5	923.6
52.5°	740.0	793.0	889.7	1062.7	1306.7	1513.9	1494.0	1288.1	1087.1	934.8	834.6
55°	654.9	705.1	797.2	959.4	1181.3	1345.5	1273.4	1076.8	910.6	792.3	716.1
57.5°	578.8	626.8	706.3	852.8	1045.8	1158.6	1066.8	901.2	769.0	678.0	621.1
60°	527.0	569.7	645.3	781.3	949.1	1034.9	944.2	797.9	686.5	613.7	562.8
62.5°	478.2	515.2	585.3	708.8	854.4	926.7	834.9	710.9	616.1	551.6	508.4
65°	404.0	437.8	499.6	595.8	715.4	763.5	684.5	584.1	510.6	462.5	433.6
67.5°	336.5	365.1	418.5	494.2	582.2	617.2	557.0	479.4	424.0	385.4	362.4
70°	291.3	316.1	358.0	423.3	503.0	529.9	473.5	409.6	369.0	338.1	316.8
72.5°	253.5	271.6	309.6	360.1	426.6	447.9	408.6	352.4	314.6	291.3	274.5
75°	193.1	208.2	233.0	273.5	319.5	331.9	302.4	267.3	241.9	225.4	212.4
77.5°	139.3	150.4	168.2	193.3	225.1	236.3	217.5	194.2	175.6	164.5	157.2
80°	105.1	114.1	129.2	149.8	169.1	175.2	164.2	146.3	133.3	127.1	121.0
82.5°	77.7	82.7	91.8	105.8	119.1	126.3	116.9	106.2	99.3	93.6	91.3
85°	39.2	41.9	46.0	51.5	59.8	62.5	59.1	56.4	52.2	48.8	48.8
87.5°	14.7	14.9	17.0	18.3	20.7	22.7	22.5	21.8	21.6	20.9	20.5
90°	2.3	3.4	5.2	6.4	7.5	9.2	10.9	12.6	14.4	13.8	14.4
92.5°	10.6	15.5	19.9	24.7	33.3	48.4	73.1	97.5	88.6	66.9	48.5
95°	21.3	27.7	37.5	52.4	74.8	123.8	209.6	304.2	341.5	277.0	207.3
97.5°	34.0	39.0	47.5	62.2	86.5	133.3	230.0	387.5	529.4	566.3	516.9
100°	43.2	47.3	55.3	69.1	91.6	131.9	217.1	368.6	545.4	658.9	679.1
102.5°	53.3	57.0	64.5	77.0	97.6	133.7	206.1	341.0	515.5	663.6	733.1
105°	68.6	72.0	78.9	89.9	107.8	138.9	198.1	307.0	463.1	628.4	748.8
107.5°	84.0	87.4	94.1	104.4	121.0	148.2	197.5	285.4	416.8	566.9	703.4
110°	95.0	98.0	104.2	114.0	130.2	156.1	199.9	277.0	390.5	528.2	660.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	105.2	108.1	114.4	124.2	139.9	163.9	204.5	272.5	373.0	494.5	617.2
115°	120.4	123.8	129.6	139.4	154.9	176.8	212.0	270.7	354.3	453.9	560.5
117.5°	135.3	138.3	143.5	154.5	168.8	190.6	221.9	271.8	343.2	429.4	519.3
120°	144.6	147.4	153.2	164.2	178.5	199.2	229.2	273.6	338.1	416.5	497.7
122.5°	153.3	156.2	162.4	172.9	188.2	208.5	236.2	276.8	334.9	405.9	480.6
125°	165.3	168.7	175.1	186.0	201.6	221.8	247.1	281.7	330.6	392.2	457.9
127.5°	175.4	179.8	186.1	198.2	213.8	233.3	256.1	287.2	328.5	380.3	438.1
130°	181.5	186.6	193.5	205.6	221.2	240.1	262.1	290.8	327.2	373.9	425.7
132.5°	186.5	192.2	200.5	212.6	227.6	246.2	267.6	293.7	326.7	367.8	414.1
135°	194.7	201.1	209.6	221.8	237.3	255.2	274.8	297.8	326.0	360.0	398.6
137.5°	202.4	208.6	217.8	229.8	244.2	261.4	280.0	300.5	324.8	353.3	384.5
140°	207.9	213.7	222.9	234.4	248.8	265.5	282.9	302.4	324.3	349.0	376.2
142.5°	213.0	219.2	227.5	239.0	252.6	268.7	285.6	303.8	323.4	345.4	368.3
145°	221.2	226.4	235.0	244.8	258.0	273.1	288.6	304.7	321.9	340.4	358.8
147.5°	229.4	234.6	242.1	251.5	262.8	276.5	290.4	304.7	319.8	335.6	351.1
150°	235.0	239.6	247.1	255.2	265.5	278.8	290.8	304.7	317.9	332.3	345.6
152.5°	240.5	245.2	251.8	258.8	268.7	280.1	291.9	303.4	315.7	328.7	340.5
155°	249.4	252.9	258.6	265.0	273.1	282.9	292.1	301.8	311.6	323.2	333.0
157.5°	257.0	259.7	264.9	270.2	276.5	284.3	292.7	299.8	308.0	316.9	324.9
160°	262.1	264.4	269.0	273.1	278.8	285.7	292.7	298.9	305.3	312.8	320.2
162.5°	266.2	268.1	271.8	275.3	280.1	286.2	292.2	297.1	302.6	308.6	314.8
165°	271.9	273.1	275.9	278.2	282.3	286.8	290.8	294.4	298.4	303.0	307.6
167.5°	276.5	277.0	279.2	280.8	283.4	286.7	289.9	291.5	294.2	297.6	301.3
170°	278.8	279.3	281.0	282.3	283.4	286.3	288.6	289.7	291.4	294.4	297.2
172.5°	281.0	281.2	282.5	283.2	283.9	286.3	288.1	288.3	289.1	291.1	293.6
175°	283.4	282.9	284.0	284.0	284.6	285.7	286.8	286.3	286.3	287.4	288.6
177.5°	284.6	284.1	284.6	284.6	284.6	285.0	285.9	285.0	284.6	285.0	285.5
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1492.6	1493.2	1499.2	1503.6	1501.4	1504.2	1505.2
5°	1630.7	1655.5	1668.5	1678.2	1678.8	1679.5	1685.1
7.5°	1826.5	1853.1	1872.5	1901.9	1910.7	1920.8	1917.8
10°	1969.5	2008.7	2042.4	2060.2	2079.5	2107.7	2085.0
12.5°	2103.1	2172.5	2223.8	2251.6	2269.7	2275.3	2264.2
15°	2323.4	2414.2	2463.0	2461.5	2523.5	2550.2	2508.3
17.5°	2525.5	2609.2	2676.2	2710.6	2762.2	2773.6	2768.3
20°	2649.2	2740.6	2792.8	2851.9	2878.7	2902.8	2906.9
22.5°	2755.8	2837.9	2894.0	2943.2	2965.6	2977.0	2983.8
25°	2865.6	2930.2	2964.0	2981.1	2987.3	2985.9	2977.0
27.5°	2858.1	2863.1	2825.9	2789.6	2756.9	2720.3	2707.5
30°	2783.9	2726.1	2623.0	2564.7	2478.7	2410.7	2438.2
32.5°	2588.7	2473.8	2358.0	2230.4	2124.7	2094.6	2064.4
35°	2209.4	2007.3	1889.2	1751.7	1696.7	1641.7	1604.0
37.5°	1787.5	1631.1	1491.0	1401.1	1345.9	1311.2	1292.5
40°	1545.5	1404.6	1289.2	1216.4	1174.5	1135.3	1129.7
42.5°	1352.5	1221.5	1134.7	1076.7	1036.4	1019.8	1007.7
45°	1107.8	1016.3	958.0	916.8	889.9	879.6	865.9
47.5°	937.7	873.0	829.2	801.1	780.9	773.3	772.1
50°	842.5	788.9	756.6	734.6	718.8	716.1	705.1
52.5°	771.0	724.6	699.4	680.2	668.8	661.1	657.8
55°	669.3	638.4	615.7	604.7	595.8	588.2	588.2
57.5°	585.6	559.8	544.8	535.4	532.7	527.4	523.9
60°	533.9	512.0	500.3	492.0	486.6	487.3	481.0
62.5°	483.4	469.1	458.0	449.7	443.1	443.2	443.6
65°	411.6	400.6	392.4	389.6	385.6	380.7	382.1
67.5°	348.8	338.5	332.0	327.4	326.0	323.4	327.4
70°	303.8	296.2	291.3	287.2	285.9	286.6	290.0
72.5°	262.5	257.1	254.0	252.1	249.0	249.1	251.6
75°	206.1	202.1	199.2	197.2	196.5	196.5	196.5
77.5°	151.5	150.5	149.3	146.2	146.3	147.2	147.3
80°	119.6	117.5	116.8	115.4	113.4	112.0	115.4
82.5°	89.4	87.3	86.5	86.3	83.1	82.9	85.7
85°	48.1	46.0	46.8	46.0	46.0	45.3	45.3
87.5°	20.0	19.6	19.3	19.7	19.3	18.9	19.8
90°	14.9	15.6	16.7	16.2	16.7	17.3	16.7
92.5°	38.5	34.0	31.0	30.0	28.2	28.8	27.8
95°	140.6	110.0	89.3	78.4	73.1	69.1	66.9
97.5°	414.0	339.7	270.8	228.3	202.4	186.8	181.9
100°	632.5	565.0	483.2	425.1	383.0	360.6	361.1
102.5°	731.5	692.3	640.4	595.1	561.8	543.0	529.8
105°	806.4	817.4	802.3	775.9	754.0	735.6	732.7
107.5°	797.0	847.4	867.9	868.4	861.0	854.7	849.5
110°	766.1	838.7	879.0	895.1	899.7	898.6	897.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	725.5	806.9	858.7	888.2	902.5	906.9	907.1
115°	660.7	745.4	808.1	851.3	876.7	888.2	891.1
117.5°	605.8	681.9	745.6	790.6	819.6	836.3	840.1
120°	575.4	644.5	702.8	748.2	780.5	794.3	797.8
122.5°	551.0	615.0	669.0	709.5	738.5	753.8	758.1
125°	520.7	576.0	622.1	658.9	684.3	698.7	702.8
127.5°	494.1	544.0	585.9	618.7	640.4	653.4	657.1
130°	477.5	524.1	563.3	593.9	614.6	626.7	631.3
132.5°	461.8	505.2	542.6	571.3	592.0	602.7	605.9
135°	439.5	477.0	509.8	538.0	555.2	565.6	569.7
137.5°	418.0	450.2	478.7	502.4	519.9	528.7	531.3
140°	405.5	433.1	457.9	479.8	495.9	505.1	504.5
142.5°	393.5	417.5	439.0	457.7	472.0	480.3	479.7
145°	377.9	396.3	413.0	427.4	439.5	444.1	445.2
147.5°	366.2	381.1	392.9	403.8	412.0	416.5	416.9
150°	358.8	370.9	381.9	390.5	396.9	400.3	400.3
152.5°	351.9	362.6	371.7	378.5	384.5	386.5	386.5
155°	342.1	350.8	357.7	362.8	367.5	368.6	369.2
157.5°	332.5	339.3	344.7	349.2	352.6	353.6	353.5
160°	326.6	332.3	336.4	340.4	343.9	343.9	343.3
162.5°	320.1	325.5	329.0	331.6	334.7	334.7	334.1
165°	311.0	315.1	317.9	320.2	322.6	321.9	321.9
167.5°	304.0	306.3	308.4	309.4	311.0	310.4	310.4
170°	298.9	301.2	302.4	303.0	304.2	303.6	303.6
172.5°	294.8	296.6	297.3	297.4	298.6	297.6	297.1
175°	289.1	290.3	290.3	290.3	290.8	290.3	289.7
177.5°	285.9	286.4	286.4	285.9	286.4	285.5	285.5
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6

(END OF REPORT)