

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: P332001-840

Luminaire Tested: **S123DIP-S1000D365U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332001-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S1000D365U840-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 365 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5541.0 lumens  
Efficiency: N/A  
Efficacy: 127.4 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

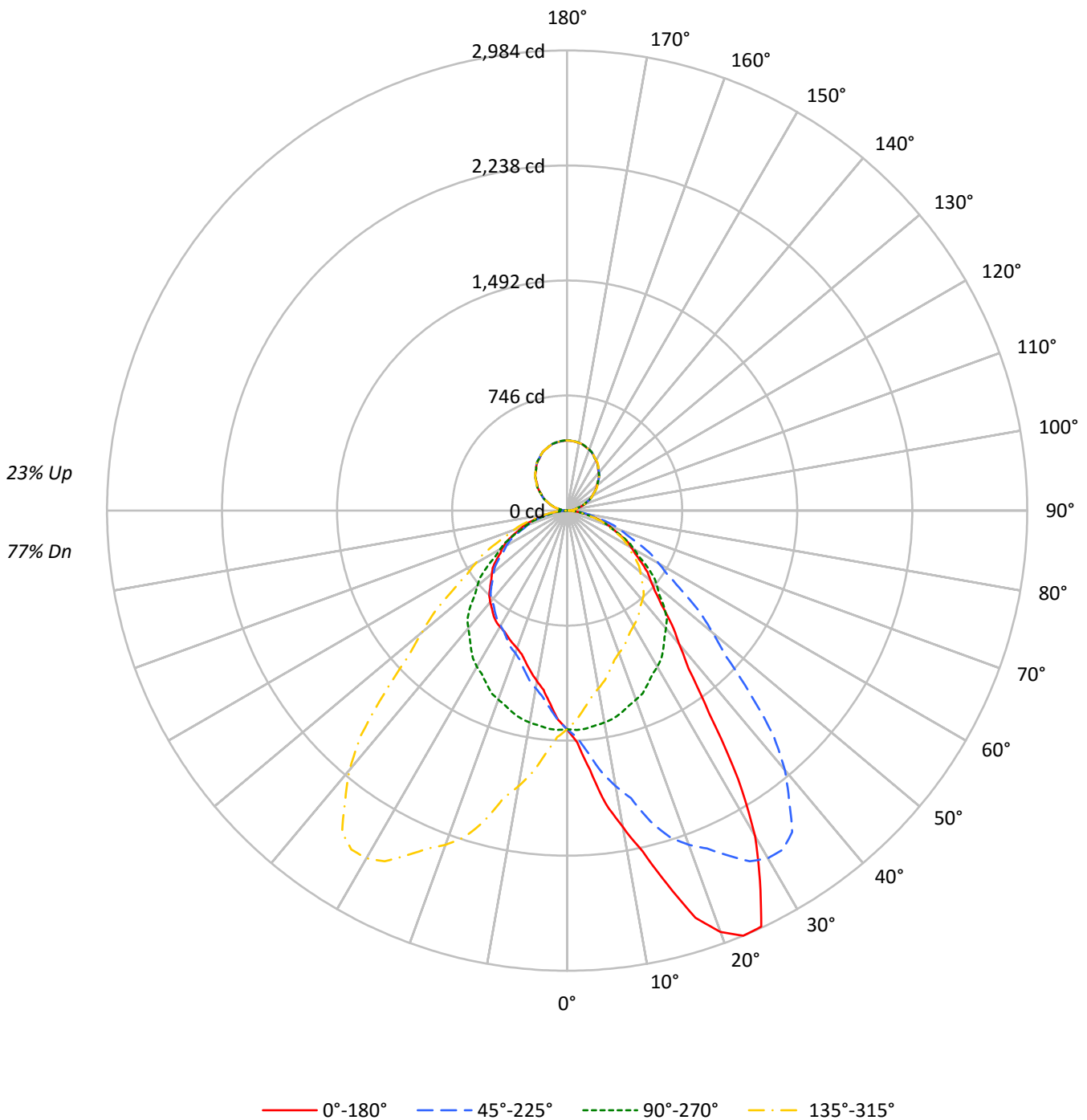
Input Watts (W): 43.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81	77
1	104	100	96	93	99	96	92	89	87	85	82	80	77	76	72	71	69	66
2	95	88	82	76	91	84	78	74	77	72	69	70	67	64	64	62	59	56
3	87	78	70	64	83	74	68	62	68	63	58	63	58	54	57	54	51	48
4	80	69	61	55	76	66	59	53	61	55	50	56	51	47	51	47	44	41
5	74	62	53	47	70	59	52	46	55	48	43	50	45	41	46	42	39	36
6	68	56	47	41	65	54	46	40	50	43	38	46	40	36	42	38	34	32
7	63	50	42	37	60	49	41	36	45	39	34	42	36	32	39	34	30	28
8	59	46	38	33	56	44	37	32	41	35	30	38	33	29	36	31	27	25
9	55	42	34	29	52	41	33	29	38	32	27	35	30	26	33	28	25	23
10	51	39	31	26	49	38	31	26	35	29	25	33	27	24	30	26	22	21

**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	2.5
10°-20°	448.0	8.1
20°-30°	751.9	13.6
30°-40°	851.4	15.4
40°-50°	763.5	13.8
50°-60°	616.1	11.1
60°-70°	429.4	7.7
70°-80°	225.7	4.1
80°-90°	56.5	1.0
90°-100°	29.6	0.5
100°-110°	88.6	1.6
110°-120°	150.7	2.7
120°-130°	198.2	3.6
130°-140°	222.7	4.0
140°-150°	219.0	4.0
150°-160°	184.3	3.3
160°-170°	122.7	2.2
170°-180°	43.0	0.8
0°-30°	1339.7	24.2
0°-40°	2191.1	39.5
0°-60°	3570.7	64.4
0°-90°	4282.3	77.3
90°-120°	268.8	4.9
90°-150°	908.7	16.4
90°-180°	1259.0	22.7
0°-180°	5541.0	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°	11	0	11	0	11	7
95°	28	21	28	21	28	29
105°	85	80	85	80	85	90
115°	152	152	152	152	152	151
125°	219	222	219	222	219	196
135°	288	288	288	288	288	221
145°	349	349	349	349	349	218
155°	399	400	399	400	399	184
165°	434	436	434	436	434	122
175°	451	453	451	453	451	43
180°	454	454	454	454	454	



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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°	18.7	17.5	18.0	18.6	18.0	18.5	19.0	19.4	19.9	20.4	20.7
90°	10.7	10.5	10.4	10.2	10.1	9.8	9.5	9.2	8.9	8.6	7.6
92.5°	14.4	14.5	14.6	14.7	14.8	14.7	14.4	14.2	13.9	13.7	13.1
95°	27.9	27.9	27.9	27.9	27.9	27.7	27.4	27.1	26.8	26.5	25.8
97.5°	42.8	42.8	42.9	42.9	42.9	42.8	42.4	42.0	41.7	41.3	40.9
100°	54.2	54.1	53.9	53.7	53.6	53.4	53.2	52.9	52.7	52.4	52.1
102.5°	65.9	65.9	66.0	66.0	66.0	65.9	65.7	65.5	65.2	65.0	64.5
105°	84.9	84.8	84.6	84.4	84.3	84.2	84.2	84.2	84.2	84.2	83.5
107.5°	104.7	104.8	104.9	105.0	105.1	105.0	104.7	104.5	104.2	104.0	103.7
110°	118.2	118.3	118.5	118.6	118.8	118.7	118.4	118.1	117.8	117.4	117.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	132.4	132.4	132.5	132.5	132.5	132.4	132.0	131.6	131.2	130.9	130.8
115°	152.0	152.1	152.2	152.3	152.4	152.4	152.3	152.2	152.1	152.0	152.2
117.5°	172.0	172.2	172.4	172.6	172.8	173.0	173.0	173.0	173.0	173.0	173.2
120°	185.9	186.1	186.2	186.4	186.5	186.7	186.7	186.8	186.9	187.0	187.4
122.5°	199.3	199.5	199.8	200.1	200.3	200.5	200.7	200.9	201.1	201.3	201.5
125°	219.4	219.7	220.2	220.5	220.8	221.1	221.4	221.7	222.0	222.4	222.5
127.5°	239.5	239.9	240.2	240.7	241.0	241.4	241.9	242.3	242.8	243.2	243.4
130°	252.7	253.3	253.8	254.4	254.9	255.3	255.6	256.0	256.3	256.6	256.8
132.5°	266.4	266.8	267.2	267.6	268.1	268.5	268.8	269.2	269.6	270.0	270.1
135°	287.6	287.8	287.9	288.1	288.3	288.5	288.8	289.1	289.4	289.8	289.8
137.5°	306.4	306.7	307.0	307.3	307.6	307.9	308.3	308.6	308.9	309.2	309.0
140°	318.7	319.2	319.8	320.3	320.9	321.2	321.3	321.3	321.4	321.5	321.4
142.5°	331.2	331.6	332.1	332.5	333.0	333.3	333.3	333.4	333.5	333.6	333.4
145°	349.4	349.7	350.0	350.3	350.6	350.8	350.9	351.0	351.1	351.1	350.9
147.5°	365.5	366.0	366.5	367.0	367.4	367.7	367.7	367.7	367.7	367.7	367.4
150°	375.8	376.3	376.8	377.2	377.7	377.9	377.9	377.9	377.9	377.9	377.8
152.5°	385.8	386.2	386.6	387.0	387.4	387.6	387.5	387.3	387.2	387.1	387.0
155°	399.3	399.9	400.4	401.0	401.5	401.7	401.3	401.0	400.7	400.4	400.3
157.5°	411.7	412.1	412.6	413.0	413.4	413.5	413.2	412.8	412.5	412.2	412.1
160°	419.7	420.0	420.3	420.6	420.9	420.9	420.5	420.1	419.7	419.3	419.3
162.5°	425.7	426.2	426.7	427.2	427.7	427.8	427.4	427.0	426.6	426.2	426.2
165°	434.3	434.8	435.5	436.0	436.6	436.6	436.1	435.7	435.2	434.6	434.6
167.5°	441.7	442.1	442.6	443.1	443.6	443.6	443.1	442.6	442.1	441.7	441.6
170°	445.4	446.0	446.5	447.1	447.6	447.6	447.1	446.5	446.0	445.4	445.4
172.5°	448.3	448.8	449.4	449.9	450.5	450.5	450.0	449.5	449.0	448.5	448.5
175°	451.4	452.0	452.5	453.1	453.6	453.7	453.2	452.7	452.3	451.8	451.8
177.5°	453.1	453.6	454.0	454.5	454.9	454.9	454.5	454.2	453.8	453.4	453.4
180°	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3



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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°	21.6	22.0	20.1	17.8	16.5	14.6	14.5	13.2	12.3	12.5	12.1
90°	6.5	5.5	4.4	3.5	2.7	1.9	1.1	0.4	1.1	1.9	2.7
92.5°	12.5	11.9	11.3	10.8	10.3	9.7	9.2	8.7	9.2	9.7	10.3
95°	25.1	24.5	23.8	23.2	22.7	22.1	21.6	21.1	21.6	22.1	22.7
97.5°	40.4	40.0	39.5	39.1	38.7	38.3	37.8	37.4	37.8	38.3	38.7
100°	51.7	51.3	50.9	50.4	50.0	49.5	49.0	48.6	49.0	49.5	50.0
102.5°	64.0	63.4	62.9	62.5	62.2	61.9	61.7	61.4	61.7	61.9	62.2
105°	82.8	82.1	81.4	80.9	80.8	80.6	80.5	80.3	80.5	80.6	80.8
107.5°	103.4	103.1	102.8	102.7	102.6	102.5	102.4	102.3	102.4	102.5	102.6
110°	117.1	116.9	116.7	116.6	116.4	116.3	116.1	116.0	116.1	116.3	116.4





TEST NUMBER: P332001-840

CATALOG NUMBER: S123DIP-S1000D365U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	130.8	130.8	130.7	130.7	130.6	130.5	130.4	130.3	130.4	130.5	130.6
115°	152.4	152.5	152.7	152.6	152.4	152.2	151.9	151.7	151.9	152.2	152.4
117.5°	173.4	173.6	173.8	173.9	173.7	173.6	173.4	173.2	173.4	173.6	173.7
120°	187.8	188.2	188.5	188.5	188.0	187.6	187.1	186.6	187.1	187.6	188.0
122.5°	201.7	201.9	202.1	202.1	201.7	201.4	201.0	200.7	201.0	201.4	201.7
125°	222.7	222.8	223.0	223.0	222.7	222.5	222.2	222.0	222.2	222.5	222.7
127.5°	243.5	243.7	243.9	243.7	243.2	242.7	242.2	241.7	242.2	242.7	243.2
130°	257.1	257.3	257.5	257.3	256.7	256.1	255.4	254.8	255.4	256.1	256.7
132.5°	270.3	270.5	270.7	270.4	269.8	269.2	268.6	267.9	268.6	269.2	269.8
135°	289.9	290.0	290.1	289.9	289.4	288.9	288.5	288.0	288.5	288.9	289.4
137.5°	308.8	308.6	308.4	308.1	307.7	307.3	307.0	306.6	307.0	307.3	307.7
140°	321.3	321.3	321.2	321.0	320.6	320.2	319.8	319.4	319.8	320.2	320.6
142.5°	333.3	333.2	333.0	332.6	332.3	331.9	331.5	331.1	331.5	331.9	332.3
145°	350.7	350.4	350.2	350.0	349.8	349.7	349.5	349.4	349.5	349.7	349.8
147.5°	367.2	367.0	366.8	366.5	366.3	366.0	365.7	365.4	365.7	366.0	366.3
150°	377.6	377.5	377.3	377.2	377.0	376.8	376.7	376.5	376.7	376.8	377.0
152.5°	386.9	386.8	386.7	386.6	386.3	386.1	385.9	385.7	385.9	386.1	386.3
155°	400.2	400.2	400.1	400.1	400.1	400.1	400.1	400.1	400.1	400.1	400.1
157.5°	412.0	412.0	411.9	411.9	412.0	412.1	412.2	412.3	412.2	412.1	412.0
160°	419.3	419.3	419.3	419.4	419.6	419.7	419.9	420.0	419.9	419.7	419.6
162.5°	426.1	426.0	426.0	426.0	426.3	426.5	426.7	426.9	426.7	426.5	426.3
165°	434.6	434.6	434.6	434.7	435.0	435.3	435.6	435.8	435.6	435.3	435.0
167.5°	441.5	441.5	441.4	441.5	441.8	442.2	442.5	442.8	442.5	442.2	441.8
170°	445.4	445.4	445.4	445.6	445.9	446.2	446.5	446.8	446.5	446.2	445.9
172.5°	448.5	448.5	448.5	448.7	449.0	449.3	449.6	450.0	449.6	449.3	449.0
175°	451.8	451.8	451.8	452.0	452.3	452.6	452.9	453.2	452.9	452.6	452.3
177.5°	453.4	453.4	453.4	453.5	453.8	454.0	454.3	454.5	454.3	454.0	453.8
180°	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3



TEST NUMBER: P332001-840

CATALOG NUMBER: S123DIP-S1000D365U840-4F0-1E-UDD-A1

**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°	11.7	12.4	12.1	12.8	12.5	13.2	13.3	12.3	12.3	14.0	11.9
90°	3.5	4.4	5.5	6.5	7.6	8.6	8.9	9.2	9.5	9.8	10.1
92.5°	10.8	11.3	11.9	12.5	13.1	13.7	13.9	14.2	14.4	14.7	14.8
95°	23.2	23.8	24.5	25.1	25.8	26.5	26.8	27.1	27.4	27.7	27.9
97.5°	39.1	39.5	40.0	40.4	40.9	41.3	41.7	42.0	42.4	42.8	42.9
100°	50.4	50.9	51.3	51.7	52.1	52.4	52.7	52.9	53.2	53.4	53.6
102.5°	62.5	62.9	63.4	64.0	64.5	65.0	65.2	65.5	65.7	65.9	66.0
105°	80.9	81.4	82.1	82.8	83.5	84.2	84.2	84.2	84.2	84.2	84.3
107.5°	102.7	102.8	103.1	103.4	103.7	104.0	104.2	104.5	104.7	105.0	105.1
110°	116.6	116.7	116.9	117.1	117.2	117.4	117.8	118.1	118.4	118.7	118.8



TEST NUMBER: P332001-840

CATALOG NUMBER: S123DIP-S1000D365U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	130.7	130.7	130.8	130.8	130.8	130.9	131.2	131.6	132.0	132.4	132.5
115°	152.6	152.7	152.5	152.4	152.2	152.0	152.1	152.2	152.3	152.4	152.4
117.5°	173.9	173.8	173.6	173.4	173.2	173.0	173.0	173.0	173.0	173.0	172.8
120°	188.5	188.5	188.2	187.8	187.4	187.0	186.9	186.8	186.7	186.7	186.5
122.5°	202.1	202.1	201.9	201.7	201.5	201.3	201.1	200.9	200.7	200.5	200.3
125°	223.0	223.0	222.8	222.7	222.5	222.4	222.0	221.7	221.4	221.1	220.8
127.5°	243.7	243.9	243.7	243.5	243.4	243.2	242.8	242.3	241.9	241.4	241.0
130°	257.3	257.5	257.3	257.1	256.8	256.6	256.3	256.0	255.6	255.3	254.9
132.5°	270.4	270.7	270.5	270.3	270.1	270.0	269.6	269.2	268.8	268.5	268.1
135°	289.9	290.1	290.0	289.9	289.8	289.8	289.4	289.1	288.8	288.5	288.3
137.5°	308.1	308.4	308.6	308.8	309.0	309.2	308.9	308.6	308.3	307.9	307.6
140°	321.0	321.2	321.3	321.3	321.4	321.5	321.4	321.3	321.3	321.2	320.9
142.5°	332.6	333.0	333.2	333.3	333.4	333.6	333.5	333.4	333.3	333.3	333.0
145°	350.0	350.2	350.4	350.7	350.9	351.1	351.1	351.0	350.9	350.8	350.6
147.5°	366.5	366.8	367.0	367.2	367.4	367.7	367.7	367.7	367.7	367.7	367.4
150°	377.2	377.3	377.5	377.6	377.8	377.9	377.9	377.9	377.9	377.9	377.7
152.5°	386.6	386.7	386.8	386.9	387.0	387.1	387.2	387.3	387.5	387.6	387.4
155°	400.1	400.1	400.2	400.2	400.3	400.4	400.7	401.0	401.3	401.7	401.5
157.5°	411.9	411.9	412.0	412.0	412.1	412.2	412.5	412.8	413.2	413.5	413.4
160°	419.4	419.3	419.3	419.3	419.3	419.3	419.7	420.1	420.5	420.9	420.9
162.5°	426.0	426.0	426.0	426.1	426.2	426.2	426.6	427.0	427.4	427.8	427.7
165°	434.7	434.6	434.6	434.6	434.6	434.6	435.2	435.7	436.1	436.6	436.6
167.5°	441.5	441.4	441.5	441.5	441.6	441.7	442.1	442.6	443.1	443.6	443.6
170°	445.6	445.4	445.4	445.4	445.4	445.4	446.0	446.5	447.1	447.6	447.6
172.5°	448.7	448.5	448.5	448.5	448.5	448.5	449.0	449.5	450.0	450.5	450.5
175°	452.0	451.8	451.8	451.8	451.8	451.8	452.3	452.7	453.2	453.7	453.6
177.5°	453.5	453.4	453.4	453.4	453.4	453.4	453.8	454.2	454.5	454.9	454.9
180°	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3



TEST NUMBER: P332001-840

CATALOG NUMBER: S123DIP-S1000D365U840-4F0-1E-UDD-A1

**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°	11.9	12.0	11.4	10.9	11.4	12.0	11.9	11.9	14.0	12.3	12.3
90°	10.2	10.4	10.5	10.7	10.5	10.4	10.2	10.1	9.8	9.5	9.2
92.5°	14.7	14.6	14.5	14.4	14.5	14.6	14.7	14.8	14.7	14.4	14.2
95°	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.7	27.4	27.1
97.5°	42.9	42.9	42.8	42.8	42.8	42.9	42.9	42.9	42.8	42.4	42.0
100°	53.7	53.9	54.1	54.2	54.1	53.9	53.7	53.6	53.4	53.2	52.9
102.5°	66.0	66.0	65.9	65.9	65.9	66.0	66.0	66.0	65.9	65.7	65.5
105°	84.4	84.6	84.8	84.9	84.8	84.6	84.4	84.3	84.2	84.2	84.2
107.5°	105.0	104.9	104.8	104.7	104.8	104.9	105.0	105.1	105.0	104.7	104.5
110°	118.6	118.5	118.3	118.2	118.3	118.5	118.6	118.8	118.7	118.4	118.1



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	132.5	132.5	132.4	132.4	132.4	132.5	132.5	132.5	132.4	132.0	131.6
115°	152.3	152.2	152.1	152.0	152.1	152.2	152.3	152.4	152.4	152.3	152.2
117.5°	172.6	172.4	172.2	172.0	172.2	172.4	172.6	172.8	173.0	173.0	173.0
120°	186.4	186.2	186.1	185.9	186.1	186.2	186.4	186.5	186.7	186.7	186.8
122.5°	200.1	199.8	199.5	199.3	199.5	199.8	200.1	200.3	200.5	200.7	200.9
125°	220.5	220.2	219.7	219.4	219.7	220.2	220.5	220.8	221.1	221.4	221.7
127.5°	240.7	240.2	239.9	239.5	239.9	240.2	240.7	241.0	241.4	241.9	242.3
130°	254.4	253.8	253.3	252.7	253.3	253.8	254.4	254.9	255.3	255.6	256.0
132.5°	267.6	267.2	266.8	266.4	266.8	267.2	267.6	268.1	268.5	268.8	269.2
135°	288.1	287.9	287.8	287.6	287.8	287.9	288.1	288.3	288.5	288.8	289.1
137.5°	307.3	307.0	306.7	306.4	306.7	307.0	307.3	307.6	307.9	308.3	308.6
140°	320.3	319.8	319.2	318.7	319.2	319.8	320.3	320.9	321.2	321.3	321.3
142.5°	332.5	332.1	331.6	331.2	331.6	332.1	332.5	333.0	333.3	333.3	333.4
145°	350.3	350.0	349.7	349.4	349.7	350.0	350.3	350.6	350.8	350.9	351.0
147.5°	367.0	366.5	366.0	365.5	366.0	366.5	367.0	367.4	367.7	367.7	367.7
150°	377.2	376.8	376.3	375.8	376.3	376.8	377.2	377.7	377.9	377.9	377.9
152.5°	387.0	386.6	386.2	385.8	386.2	386.6	387.0	387.4	387.6	387.5	387.3
155°	401.0	400.4	399.9	399.3	399.9	400.4	401.0	401.5	401.7	401.3	401.0
157.5°	413.0	412.6	412.1	411.7	412.1	412.6	413.0	413.4	413.5	413.2	412.8
160°	420.6	420.3	420.0	419.7	420.0	420.3	420.6	420.9	420.9	420.5	420.1
162.5°	427.2	426.7	426.2	425.7	426.2	426.7	427.2	427.7	427.8	427.4	427.0
165°	436.0	435.5	434.8	434.3	434.8	435.5	436.0	436.6	436.6	436.1	435.7
167.5°	443.1	442.6	442.1	441.7	442.1	442.6	443.1	443.6	443.6	443.1	442.6
170°	447.1	446.5	446.0	445.4	446.0	446.5	447.1	447.6	447.6	447.1	446.5
172.5°	449.9	449.4	448.8	448.3	448.8	449.4	449.9	450.5	450.5	450.0	449.5
175°	453.1	452.5	452.0	451.4	452.0	452.5	453.1	453.6	453.7	453.2	452.7
177.5°	454.5	454.0	453.6	453.1	453.6	454.0	454.5	454.9	454.9	454.5	454.2
180°	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3



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**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°	13.3	13.2	12.5	12.8	12.1	12.4	11.7	12.1	12.5	12.3	13.2
90°	8.9	8.6	7.6	6.5	5.5	4.4	3.5	2.7	1.9	1.1	0.4
92.5°	13.9	13.7	13.1	12.5	11.9	11.3	10.8	10.3	9.7	9.2	8.7
95°	26.8	26.5	25.8	25.1	24.5	23.8	23.2	22.7	22.1	21.6	21.1
97.5°	41.7	41.3	40.9	40.4	40.0	39.5	39.1	38.7	38.3	37.8	37.4
100°	52.7	52.4	52.1	51.7	51.3	50.9	50.4	50.0	49.5	49.0	48.6
102.5°	65.2	65.0	64.5	64.0	63.4	62.9	62.5	62.2	61.9	61.7	61.4
105°	84.2	84.2	83.5	82.8	82.1	81.4	80.9	80.8	80.6	80.5	80.3
107.5°	104.2	104.0	103.7	103.4	103.1	102.8	102.7	102.6	102.5	102.4	102.3
110°	117.8	117.4	117.2	117.1	116.9	116.7	116.6	116.4	116.3	116.1	116.0



TEST NUMBER: P332001-840

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	131.2	130.9	130.8	130.8	130.8	130.7	130.7	130.6	130.5	130.4	130.3
115°	152.1	152.0	152.2	152.4	152.5	152.7	152.6	152.4	152.2	151.9	151.7
117.5°	173.0	173.0	173.2	173.4	173.6	173.8	173.9	173.7	173.6	173.4	173.2
120°	186.9	187.0	187.4	187.8	188.2	188.5	188.5	188.0	187.6	187.1	186.6
122.5°	201.1	201.3	201.5	201.7	201.9	202.1	202.1	201.7	201.4	201.0	200.7
125°	222.0	222.4	222.5	222.7	222.8	223.0	223.0	222.7	222.5	222.2	222.0
127.5°	242.8	243.2	243.4	243.5	243.7	243.9	243.7	243.2	242.7	242.2	241.7
130°	256.3	256.6	256.8	257.1	257.3	257.5	257.3	256.7	256.1	255.4	254.8
132.5°	269.6	270.0	270.1	270.3	270.5	270.7	270.4	269.8	269.2	268.6	267.9
135°	289.4	289.8	289.8	289.9	290.0	290.1	289.9	289.4	288.9	288.5	288.0
137.5°	308.9	309.2	309.0	308.8	308.6	308.4	308.1	307.7	307.3	307.0	306.6
140°	321.4	321.5	321.4	321.3	321.3	321.2	321.0	320.6	320.2	319.8	319.4
142.5°	333.5	333.6	333.4	333.3	333.2	333.0	332.6	332.3	331.9	331.5	331.1
145°	351.1	351.1	350.9	350.7	350.4	350.2	350.0	349.8	349.7	349.5	349.4
147.5°	367.7	367.7	367.4	367.2	367.0	366.8	366.5	366.3	366.0	365.7	365.4
150°	377.9	377.9	377.8	377.6	377.5	377.3	377.2	377.0	376.8	376.7	376.5
152.5°	387.2	387.1	387.0	386.9	386.8	386.7	386.6	386.3	386.1	385.9	385.7
155°	400.7	400.4	400.3	400.2	400.2	400.1	400.1	400.1	400.1	400.1	400.1
157.5°	412.5	412.2	412.1	412.0	412.0	411.9	411.9	412.0	412.1	412.2	412.3
160°	419.7	419.3	419.3	419.3	419.3	419.3	419.4	419.6	419.7	419.9	420.0
162.5°	426.6	426.2	426.2	426.1	426.0	426.0	426.0	426.3	426.5	426.7	426.9
165°	435.2	434.6	434.6	434.6	434.6	434.6	434.7	435.0	435.3	435.6	435.8
167.5°	442.1	441.7	441.6	441.5	441.5	441.4	441.5	441.8	442.2	442.5	442.8
170°	446.0	445.4	445.4	445.4	445.4	445.4	445.6	445.9	446.2	446.5	446.8
172.5°	449.0	448.5	448.5	448.5	448.5	448.5	448.7	449.0	449.3	449.6	450.0
175°	452.3	451.8	451.8	451.8	451.8	451.8	452.0	452.3	452.6	452.9	453.2
177.5°	453.8	453.4	453.4	453.4	453.4	453.4	453.5	453.8	454.0	454.3	454.5
180°	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3



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**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°	14.5	14.6	16.5	17.8	20.1	22.0	21.6	20.7	20.4	19.9	19.4
90°	1.1	1.9	2.7	3.5	4.4	5.5	6.5	7.6	8.6	8.9	9.2
92.5°	9.2	9.7	10.3	10.8	11.3	11.9	12.5	13.1	13.7	13.9	14.2
95°	21.6	22.1	22.7	23.2	23.8	24.5	25.1	25.8	26.5	26.8	27.1
97.5°	37.8	38.3	38.7	39.1	39.5	40.0	40.4	40.9	41.3	41.7	42.0
100°	49.0	49.5	50.0	50.4	50.9	51.3	51.7	52.1	52.4	52.7	52.9
102.5°	61.7	61.9	62.2	62.5	62.9	63.4	64.0	64.5	65.0	65.2	65.5
105°	80.5	80.6	80.8	80.9	81.4	82.1	82.8	83.5	84.2	84.2	84.2
107.5°	102.4	102.5	102.6	102.7	102.8	103.1	103.4	103.7	104.0	104.2	104.5
110°	116.1	116.3	116.4	116.6	116.7	116.9	117.1	117.2	117.4	117.8	118.1





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	130.4	130.5	130.6	130.7	130.7	130.8	130.8	130.8	130.9	131.2	131.6
115°	151.9	152.2	152.4	152.6	152.7	152.5	152.4	152.2	152.0	152.1	152.2
117.5°	173.4	173.6	173.7	173.9	173.8	173.6	173.4	173.2	173.0	173.0	173.0
120°	187.1	187.6	188.0	188.5	188.5	188.2	187.8	187.4	187.0	186.9	186.8
122.5°	201.0	201.4	201.7	202.1	202.1	201.9	201.7	201.5	201.3	201.1	200.9
125°	222.2	222.5	222.7	223.0	223.0	222.8	222.7	222.5	222.4	222.0	221.7
127.5°	242.2	242.7	243.2	243.7	243.9	243.7	243.5	243.4	243.2	242.8	242.3
130°	255.4	256.1	256.7	257.3	257.5	257.3	257.1	256.8	256.6	256.3	256.0
132.5°	268.6	269.2	269.8	270.4	270.7	270.5	270.3	270.1	270.0	269.6	269.2
135°	288.5	288.9	289.4	289.9	290.1	290.0	289.9	289.8	289.8	289.4	289.1
137.5°	307.0	307.3	307.7	308.1	308.4	308.6	308.8	309.0	309.2	308.9	308.6
140°	319.8	320.2	320.6	321.0	321.2	321.3	321.3	321.4	321.5	321.4	321.3
142.5°	331.5	331.9	332.3	332.6	333.0	333.2	333.3	333.4	333.6	333.5	333.4
145°	349.5	349.7	349.8	350.0	350.2	350.4	350.7	350.9	351.1	351.1	351.0
147.5°	365.7	366.0	366.3	366.5	366.8	367.0	367.2	367.4	367.7	367.7	367.7
150°	376.7	376.8	377.0	377.2	377.3	377.5	377.6	377.8	377.9	377.9	377.9
152.5°	385.9	386.1	386.3	386.6	386.7	386.8	386.9	387.0	387.1	387.2	387.3
155°	400.1	400.1	400.1	400.1	400.1	400.2	400.2	400.3	400.4	400.7	401.0
157.5°	412.2	412.1	412.0	411.9	411.9	412.0	412.0	412.1	412.2	412.5	412.8
160°	419.9	419.7	419.6	419.4	419.3	419.3	419.3	419.3	419.3	419.7	420.1
162.5°	426.7	426.5	426.3	426.0	426.0	426.0	426.1	426.2	426.2	426.6	427.0
165°	435.6	435.3	435.0	434.7	434.6	434.6	434.6	434.6	434.6	435.2	435.7
167.5°	442.5	442.2	441.8	441.5	441.4	441.5	441.5	441.6	441.7	442.1	442.6
170°	446.5	446.2	445.9	445.6	445.4	445.4	445.4	445.4	445.4	446.0	446.5
172.5°	449.6	449.3	449.0	448.7	448.5	448.5	448.5	448.5	448.5	449.0	449.5
175°	452.9	452.6	452.3	452.0	451.8	451.8	451.8	451.8	451.8	452.3	452.7
177.5°	454.3	454.0	453.8	453.5	453.4	453.4	453.4	453.4	453.4	453.8	454.2
180°	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3



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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°	19.0	18.5	18.0	18.6	18.0	17.5	18.7
90°	9.5	9.8	10.1	10.2	10.4	10.5	10.7
92.5°	14.4	14.7	14.8	14.7	14.6	14.5	14.4
95°	27.4	27.7	27.9	27.9	27.9	27.9	27.9
97.5°	42.4	42.8	42.9	42.9	42.9	42.8	42.8
100°	53.2	53.4	53.6	53.7	53.9	54.1	54.2
102.5°	65.7	65.9	66.0	66.0	66.0	65.9	65.9
105°	84.2	84.2	84.3	84.4	84.6	84.8	84.9
107.5°	104.7	105.0	105.1	105.0	104.9	104.8	104.7
110°	118.4	118.7	118.8	118.6	118.5	118.3	118.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	132.0	132.4	132.5	132.5	132.5	132.4	132.4
115°	152.3	152.4	152.4	152.3	152.2	152.1	152.0
117.5°	173.0	173.0	172.8	172.6	172.4	172.2	172.0
120°	186.7	186.7	186.5	186.4	186.2	186.1	185.9
122.5°	200.7	200.5	200.3	200.1	199.8	199.5	199.3
125°	221.4	221.1	220.8	220.5	220.2	219.7	219.4
127.5°	241.9	241.4	241.0	240.7	240.2	239.9	239.5
130°	255.6	255.3	254.9	254.4	253.8	253.3	252.7
132.5°	268.8	268.5	268.1	267.6	267.2	266.8	266.4
135°	288.8	288.5	288.3	288.1	287.9	287.8	287.6
137.5°	308.3	307.9	307.6	307.3	307.0	306.7	306.4
140°	321.3	321.2	320.9	320.3	319.8	319.2	318.7
142.5°	333.3	333.3	333.0	332.5	332.1	331.6	331.2
145°	350.9	350.8	350.6	350.3	350.0	349.7	349.4
147.5°	367.7	367.7	367.4	367.0	366.5	366.0	365.5
150°	377.9	377.9	377.7	377.2	376.8	376.3	375.8
152.5°	387.5	387.6	387.4	387.0	386.6	386.2	385.8
155°	401.3	401.7	401.5	401.0	400.4	399.9	399.3
157.5°	413.2	413.5	413.4	413.0	412.6	412.1	411.7
160°	420.5	420.9	420.9	420.6	420.3	420.0	419.7
162.5°	427.4	427.8	427.7	427.2	426.7	426.2	425.7
165°	436.1	436.6	436.6	436.0	435.5	434.8	434.3
167.5°	443.1	443.6	443.6	443.1	442.6	442.1	441.7
170°	447.1	447.6	447.6	447.1	446.5	446.0	445.4
172.5°	450.0	450.5	450.5	449.9	449.4	448.8	448.3
175°	453.2	453.7	453.6	453.1	452.5	452.0	451.4
177.5°	454.5	454.9	454.9	454.5	454.0	453.6	453.1
180°	454.3	454.3	454.3	454.3	454.3	454.3	454.3

(END OF REPORT)