

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: P332056-935

Luminaire Tested: **S123DIP-S1165D585U935-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332056-935  
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-S1165D585U935-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1165 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: 6042.5 lumens  
Efficiency: N/A  
Efficacy: 109.7 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

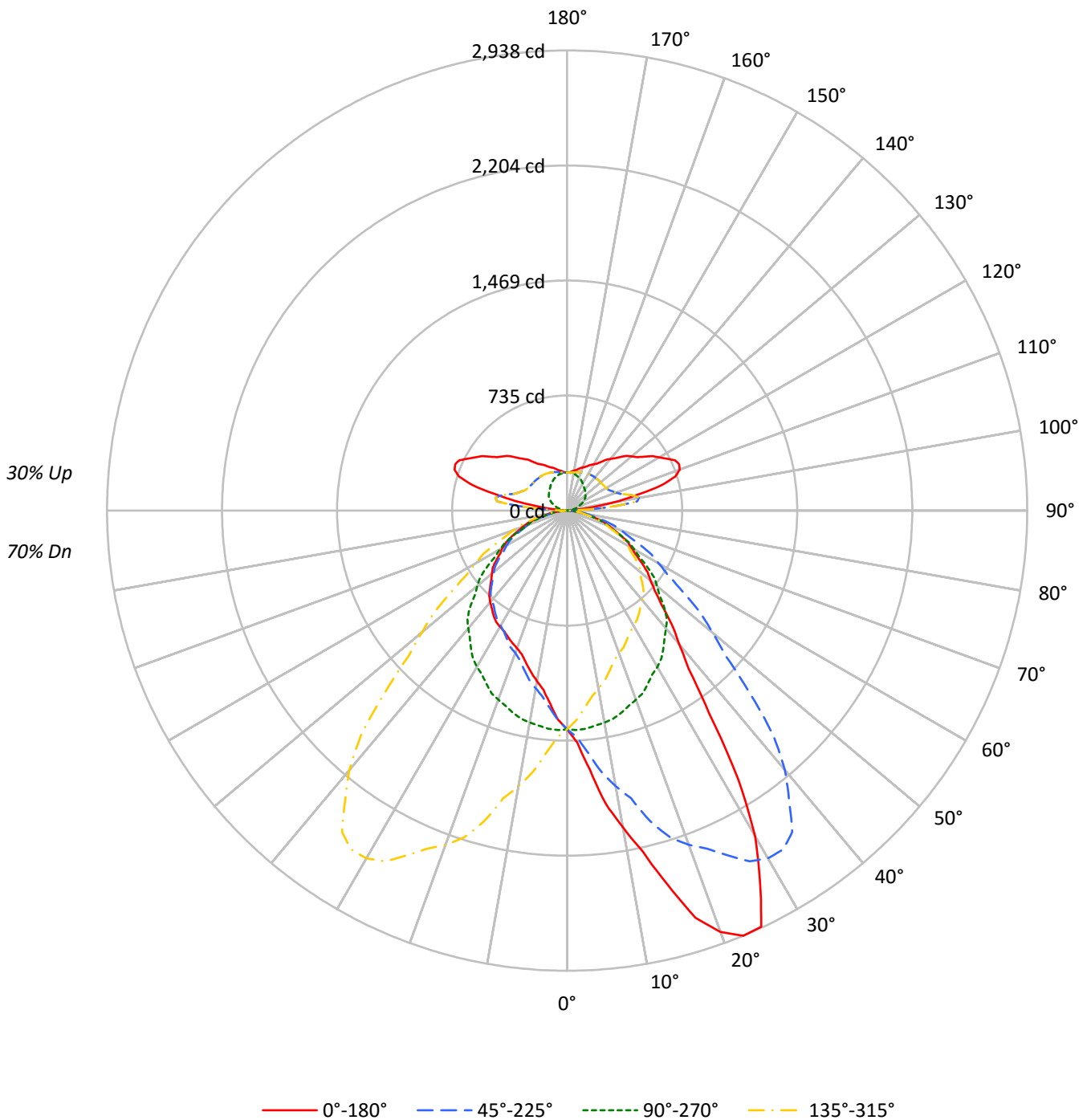
Input Watts (W): 55.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	103	98	94	91	97	93	90	87	83	81	78	75	73	71	66	65	64	60
2	94	86	80	75	88	82	76	72	74	69	66	66	63	60	59	56	54	50
3	86	76	69	63	81	72	66	60	65	60	56	59	54	51	52	49	46	43
4	79	68	60	54	74	64	57	52	58	52	48	52	48	44	47	43	40	37
5	72	61	52	46	68	58	50	45	52	46	41	47	42	38	42	38	35	32
6	67	55	46	40	63	52	44	39	47	41	36	43	38	34	39	34	31	29
7	62	49	41	36	58	47	40	34	43	37	32	39	34	30	35	31	28	25
8	58	45	37	32	54	43	36	31	39	33	29	36	31	27	32	28	25	23
9	54	41	34	28	51	39	32	27	36	30	26	33	28	24	30	26	23	21
10	50	38	30	26	48	36	29	25	33	27	23	30	25	22	28	24	20	19

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

	0°	90°	180°	270°
0°	15033	15033	15033	15033
5°	17928	15098	13380	15098
10°	22440	15021	12085	15021
15°	27524	14900	11251	14900
20°	32787	14712	10711	14712
25°	34815	14481	10592	14481
30°	29840	14315	10648	14315
35°	20752	14076	10759	14076
40°	15632	13797	10725	13797
45°	12979	13381	10589	13381
50°	11627	12532	10493	12532
55°	10869	11618	10363	11618
60°	10196	10663	10256	10663
65°	9584	9722	9928	9722
70°	8988	8645	9454	8645
75°	8052	7569	8667	7569
80°	7048	6205	7469	6205
85°	5521	4508	5014	4508



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.6	2.3
10°-20°	441.2	7.3
20°-30°	740.4	12.3
30°-40°	838.4	13.9
40°-50°	751.8	12.4
50°-60°	606.7	10.0
60°-70°	422.8	7.0
70°-80°	222.2	3.7
80°-90°	56.2	0.9
90°-100°	135.0	2.2
100°-110°	382.3	6.3
110°-120°	376.1	6.2
120°-130°	300.0	5.0
130°-140°	236.5	3.9
140°-150°	176.5	2.9
150°-160°	123.0	2.0
160°-170°	72.3	1.2
170°-180°	23.5	0.4
0°-30°	1319.2	21.8
0°-40°	2157.5	35.7
0°-60°	3516.1	58.2
0°-90°	4217.3	69.8
90°-120°	893.4	14.8
90°-150°	1606.4	26.6
90°-180°	1825.0	30.2
0°-180°	6042.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1397	1397	1397	1397	1397	
5°	1659	1397	1238	1397	1659	172
15°	2470	1337	1010	1337	2470	713
25°	2931	1219	892	1219	2931	1286
35°	1579	1071	819	1071	1579	1026
45°	853	879	696	879	853	675
55°	579	619	552	619	579	520
65°	376	382	390	382	376	375
75°	194	182	208	182	194	207
85°	45	36	41	36	45	53
90°	14	1	14	1	14	10
95°	57	17	57	17	57	103
105°	625	57	625	57	625	616
115°	760	101	760	101	760	738
125°	599	140	599	140	599	543
135°	486	164	486	164	486	377
145°	380	187	380	187	380	241
155°	315	213	315	213	315	147
165°	274	232	274	232	274	78
175°	247	242	247	242	247	24
180°	243	243	243	243	243	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1482.2	1481.1	1478.4	1480.6	1476.3	1470.2	1469.7	1464.3	1448.6	1447.5	1443.2
5°	1659.2	1653.8	1653.1	1652.4	1643.0	1630.1	1605.8	1603.7	1571.2	1555.0	1535.4
7.5°	1888.4	1891.3	1881.5	1872.8	1843.8	1824.7	1798.6	1765.2	1725.3	1684.8	1657.9
10°	2053.1	2075.4	2047.6	2028.7	2011.1	1977.9	1939.4	1891.3	1843.2	1787.1	1744.5
12.5°	2229.6	2240.5	2234.9	2217.1	2189.7	2139.2	2070.9	2018.0	1973.8	1880.3	1842.5
15°	2469.9	2511.2	2484.8	2423.9	2425.2	2377.1	2287.8	2189.7	2137.6	2055.7	1944.1
17.5°	2725.9	2731.1	2719.8	2669.1	2635.3	2569.2	2486.8	2392.7	2287.2	2188.1	2069.7
20°	2862.3	2858.3	2834.6	2808.2	2750.0	2698.6	2608.6	2503.7	2368.4	2271.0	2141.7
22.5°	2938.2	2931.4	2920.2	2898.0	2849.7	2794.4	2713.6	2599.0	2470.1	2335.9	2186.6
25°	2931.4	2940.1	2941.5	2935.4	2918.5	2885.4	2821.8	2730.4	2601.9	2429.3	2273.6
27.5°	2666.1	2678.6	2714.7	2746.8	2782.7	2819.2	2814.3	2769.0	2673.8	2524.8	2334.5
30°	2400.8	2373.8	2440.8	2525.4	2582.9	2684.3	2741.3	2744.6	2691.1	2563.3	2377.8
32.5°	2032.7	2062.5	2092.1	2196.2	2321.9	2435.9	2549.1	2640.2	2650.6	2565.4	2403.3
35°	1579.3	1616.6	1670.7	1724.8	1860.2	1976.6	2175.5	2348.7	2486.8	2505.1	2405.5
37.5°	1272.7	1291.1	1325.3	1379.6	1468.1	1606.2	1760.1	1979.0	2179.0	2327.8	2334.3
40°	1112.5	1117.8	1156.4	1197.7	1269.5	1383.1	1521.8	1715.4	1954.9	2162.7	2249.3
42.5°	992.3	1004.2	1020.5	1060.2	1117.3	1202.9	1331.9	1491.8	1711.3	1950.4	2119.9
45°	852.6	866.2	876.3	902.7	943.3	1000.8	1090.8	1237.0	1404.1	1651.1	1879.1
47.5°	760.3	761.4	769.0	788.8	816.5	859.6	923.3	1017.2	1170.6	1371.0	1605.1
50°	694.3	705.1	707.8	723.3	745.0	776.8	829.6	909.5	1035.4	1211.3	1426.4
52.5°	647.7	651.0	658.6	669.8	688.7	713.5	759.2	821.7	920.6	1070.5	1268.3
55°	579.2	579.2	586.7	595.5	606.3	628.6	659.1	705.1	780.2	896.6	1060.3
57.5°	515.9	519.3	524.5	527.3	536.5	551.2	576.7	611.6	667.6	757.2	887.4
60°	473.6	479.7	479.1	484.5	492.7	504.1	525.8	554.2	604.2	676.0	785.7
62.5°	436.9	436.4	436.4	442.8	450.9	461.9	476.0	500.6	543.1	606.7	700.1
65°	376.3	374.9	379.6	383.7	386.4	394.5	405.4	427.0	455.4	502.7	575.1
67.5°	322.4	318.5	321.0	322.4	327.0	333.3	343.5	356.9	379.4	417.5	472.1
70°	285.6	282.1	281.5	282.8	286.9	291.6	299.1	311.9	332.9	363.3	403.3
72.5°	247.6	245.4	245.2	248.2	250.1	253.2	258.5	270.3	286.9	309.8	347.0
75°	193.6	193.6	193.6	194.2	196.2	199.0	203.0	209.1	222.0	238.2	263.2
77.5°	145.1	144.9	144.1	144.0	147.0	148.2	149.1	154.8	162.0	173.0	191.2
80°	113.7	110.3	111.7	113.7	115.0	115.7	117.8	119.1	125.2	131.3	144.1
82.5°	84.5	81.6	81.9	85.0	85.2	85.9	88.0	89.9	92.1	97.7	104.6
85°	44.7	44.7	45.4	45.4	46.0	45.4	47.4	48.0	48.0	51.4	55.4
87.5°	19.1	18.1	18.5	19.0	18.5	18.9	19.4	19.8	20.2	20.8	21.1
90°	14.2	14.7	14.2	13.8	14.2	13.3	12.7	12.3	11.8	12.3	10.8
92.5°	23.7	24.5	24.0	25.6	26.4	29.0	32.8	41.3	57.0	75.5	83.1
95°	57.0	58.9	62.3	66.8	76.1	93.8	119.9	176.8	236.2	291.2	259.3
97.5°	155.1	159.3	172.5	194.7	230.9	289.6	353.0	440.7	482.8	451.3	330.4
100°	307.9	307.5	326.6	362.4	412.0	481.7	539.2	579.0	561.8	465.0	314.3
102.5°	451.7	463.0	479.0	507.4	546.0	590.2	623.7	625.0	565.8	439.5	290.8
105°	624.7	627.2	642.8	661.5	684.1	696.9	687.5	638.4	535.8	394.9	261.7
107.5°	724.3	728.8	734.1	740.4	739.9	722.5	679.5	599.7	483.4	355.3	243.3
110°	765.1	766.1	767.1	763.2	749.4	715.1	653.2	562.7	450.3	332.9	236.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	773.4	773.2	769.5	757.2	732.1	687.9	618.5	526.2	421.6	318.1	232.3
115°	759.7	757.2	747.4	725.8	689.0	635.5	563.3	477.9	387.0	302.0	230.8
117.5°	716.3	713.0	698.8	674.1	635.7	581.3	516.5	442.7	366.1	292.6	231.7
120°	680.2	677.2	665.5	637.9	599.2	549.5	490.6	424.3	355.1	288.3	233.2
122.5°	646.4	642.7	629.6	604.9	570.4	524.3	469.8	409.7	346.0	285.5	236.0
125°	599.2	595.7	583.4	561.8	530.4	491.1	443.9	390.4	334.4	281.9	240.1
127.5°	560.3	557.1	546.0	527.5	499.6	463.8	421.3	373.5	324.3	280.1	244.9
130°	538.2	534.3	524.0	506.4	480.3	446.9	407.1	362.9	318.7	279.0	248.0
132.5°	516.6	513.8	504.7	487.1	462.6	430.8	393.7	353.1	313.6	278.5	250.4
135°	485.7	482.2	473.4	458.7	434.6	406.7	374.7	339.8	306.9	277.9	253.9
137.5°	453.0	450.7	443.2	428.3	408.1	383.8	356.4	327.8	301.2	276.9	256.2
140°	430.2	430.7	422.8	409.1	390.4	369.3	345.7	320.7	297.6	276.5	257.8
142.5°	409.0	409.5	402.4	390.2	374.3	355.9	335.5	314.0	294.5	275.7	259.0
145°	379.6	378.7	374.7	364.4	352.1	337.9	322.2	305.9	290.2	274.5	259.8
147.5°	355.4	355.1	351.3	344.3	335.0	324.9	312.2	299.4	286.1	272.7	259.8
150°	341.3	341.3	338.4	332.9	325.6	316.2	305.9	294.6	283.4	271.0	259.8
152.5°	329.5	329.5	327.8	322.7	316.9	309.2	300.1	290.3	280.3	269.1	258.6
155°	314.8	314.3	313.3	309.4	305.0	299.1	291.7	283.9	275.5	265.7	257.4
157.5°	301.4	301.4	300.7	297.7	293.9	289.3	283.5	277.0	270.2	262.6	255.6
160°	292.7	293.2	293.2	290.2	286.8	283.4	278.4	273.0	266.7	260.3	254.9
162.5°	284.8	285.3	285.3	282.8	280.5	277.5	272.9	268.4	263.1	258.0	253.3
165°	274.5	274.5	275.0	273.0	271.0	268.6	265.2	262.3	258.3	254.4	251.0
167.5°	264.7	264.7	265.2	263.8	262.9	261.1	259.2	256.9	253.7	250.8	248.6
170°	258.8	258.8	259.3	258.3	257.8	256.8	254.9	253.4	251.0	248.5	247.0
172.5°	253.3	253.7	254.6	253.6	253.5	252.9	251.3	250.3	248.2	246.5	245.8
175°	247.0	247.5	248.0	247.5	247.5	247.5	246.5	246.1	245.0	244.1	244.1
177.5°	243.4	243.4	244.2	243.7	244.2	244.2	243.7	243.4	243.0	242.6	243.0
180°	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1439.9	1435.6	1431.3	1423.7	1417.2	1408.0	1405.3	1402.1	1392.3	1383.7	1377.2
5°	1527.9	1511.7	1488.0	1466.4	1448.8	1425.1	1411.5	1397.3	1377.0	1358.7	1343.8
7.5°	1620.0	1588.0	1551.2	1511.4	1474.4	1438.6	1409.8	1384.1	1355.6	1328.7	1307.8
10°	1693.1	1647.0	1595.6	1540.2	1492.7	1446.7	1408.2	1374.3	1337.8	1306.0	1279.6
12.5°	1776.4	1708.2	1637.3	1569.9	1513.9	1450.0	1403.3	1360.3	1318.9	1280.6	1250.9
15°	1875.1	1788.5	1704.5	1611.9	1526.6	1446.7	1391.3	1337.1	1289.1	1249.8	1211.9
17.5°	1965.0	1866.8	1756.3	1643.5	1540.7	1446.0	1368.2	1307.1	1247.0	1198.9	1161.1
20°	2015.9	1904.2	1779.0	1661.9	1548.3	1442.7	1357.5	1284.4	1219.3	1168.6	1126.0
22.5°	2059.7	1929.1	1799.6	1674.4	1547.7	1434.0	1337.4	1262.1	1191.8	1142.1	1096.7
25°	2105.1	1948.9	1818.9	1672.1	1530.7	1412.9	1304.7	1219.3	1149.0	1090.8	1044.1
27.5°	2144.1	1947.5	1793.3	1635.4	1503.8	1385.9	1270.2	1178.8	1104.1	1040.9	993.5
30°	2170.1	1950.2	1766.8	1610.5	1477.9	1356.1	1243.7	1151.7	1073.2	1008.9	964.2
32.5°	2186.3	1948.5	1742.4	1575.9	1436.8	1329.0	1215.0	1119.7	1039.1	975.9	932.9
35°	2195.8	1936.6	1700.5	1504.3	1370.3	1265.4	1170.0	1071.2	986.6	927.7	879.0
37.5°	2176.9	1911.6	1651.7	1435.2	1288.6	1185.3	1105.0	1020.8	939.9	875.1	833.1
40°	2147.1	1895.4	1613.9	1386.6	1232.3	1132.7	1064.5	981.9	902.0	840.4	801.2
42.5°	2090.2	1862.3	1572.2	1332.4	1173.8	1074.3	1011.3	942.4	866.9	809.0	769.8
45°	1951.5	1790.4	1509.7	1251.2	1087.4	984.6	929.1	879.0	810.6	754.5	720.7
47.5°	1759.1	1682.4	1419.3	1165.5	997.3	898.4	840.7	800.4	750.4	705.1	672.6
50°	1625.4	1593.5	1358.1	1107.1	937.2	840.4	785.0	748.4	712.6	667.2	637.4
52.5°	1471.1	1490.7	1286.7	1046.4	876.1	780.9	728.7	699.6	667.1	629.8	603.9
55°	1253.9	1324.9	1163.2	944.6	785.0	694.3	644.9	619.1	600.2	572.5	550.2
57.5°	1050.5	1140.9	1029.8	839.7	695.5	617.3	569.9	541.9	529.7	515.2	497.7
60°	929.8	1019.1	934.5	769.4	635.4	560.9	519.0	495.3	483.1	473.0	458.1
62.5°	822.0	912.4	841.4	697.9	576.4	507.4	470.8	447.7	438.2	432.9	420.3
65°	674.0	751.8	704.4	586.7	492.0	431.0	397.9	381.7	372.8	370.8	362.7
67.5°	548.5	607.8	573.3	486.6	412.1	359.5	331.3	317.5	310.7	310.0	303.9
70°	466.2	521.7	495.3	416.8	352.6	311.3	286.9	274.7	270.7	270.0	266.7
72.5°	402.3	441.1	420.1	354.6	304.9	267.4	249.5	236.9	232.2	233.2	230.9
75°	297.7	326.8	314.7	269.3	229.4	205.0	190.1	182.0	178.0	180.0	177.3
77.5°	214.2	232.6	221.7	190.3	165.7	148.1	137.1	132.1	128.5	128.3	127.1
80°	161.7	172.5	166.4	147.5	127.3	112.4	103.5	100.1	98.2	97.5	96.8
82.5°	115.2	124.4	117.2	104.2	90.4	81.5	76.5	72.0	70.5	70.9	70.3
85°	58.2	61.6	58.9	50.7	45.4	41.2	38.6	36.5	35.2	35.9	34.5
87.5°	21.9	22.1	20.2	17.8	16.6	14.6	14.5	13.2	12.3	12.5	12.2
90°	9.3	7.8	6.4	5.4	4.4	2.9	2.0	0.9	2.0	2.9	4.4
92.5°	62.3	41.2	28.4	21.1	17.0	13.2	9.0	6.1	9.0	13.2	17.0
95°	178.7	105.6	63.8	44.7	31.9	23.6	18.2	16.7	18.2	23.6	31.9
97.5°	196.1	113.7	73.8	53.0	40.5	33.2	29.0	28.5	29.0	33.2	40.5
100°	185.1	112.4	78.1	58.9	47.2	40.3	36.9	36.3	36.9	40.3	47.2
102.5°	175.7	114.0	83.2	65.6	55.0	48.6	45.5	44.6	45.5	48.6	55.0
105°	168.9	118.4	91.9	76.6	67.2	61.4	58.5	57.0	58.5	61.4	67.2
107.5°	168.4	126.4	103.1	89.0	80.2	74.5	71.6	70.1	71.6	74.5	80.2
110°	170.4	133.1	111.0	97.2	88.9	83.5	81.0	79.6	81.0	83.5	88.9





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	174.4	139.7	119.2	105.9	97.6	92.1	89.7	88.2	89.7	92.1	97.6
115°	180.7	150.8	132.1	118.8	110.5	105.6	102.6	100.7	102.6	105.6	110.5
117.5°	189.2	162.5	144.0	131.7	122.3	117.9	115.4	113.1	115.4	117.9	122.3
120°	195.4	169.9	152.2	140.0	130.6	125.7	123.3	121.8	123.3	125.7	130.6
122.5°	201.4	177.8	160.5	147.4	138.4	133.2	130.7	129.2	130.7	133.2	138.4
125°	210.7	189.1	171.9	158.6	149.3	143.9	140.9	140.0	140.9	143.9	149.3
127.5°	218.3	198.9	182.3	169.0	158.7	153.3	149.6	148.1	149.6	153.3	158.7
130°	223.4	204.7	188.6	175.3	165.0	159.1	154.7	153.3	154.7	159.1	165.0
132.5°	228.2	209.9	194.1	181.2	170.9	163.8	159.0	157.1	159.0	163.8	170.9
135°	234.3	217.6	202.3	189.1	178.7	171.4	166.0	164.0	166.0	171.4	178.7
137.5°	238.8	222.8	208.2	196.0	185.7	177.9	172.5	170.5	172.5	177.9	185.7
140°	241.2	226.4	212.2	199.8	190.0	182.2	177.3	174.9	177.3	182.2	190.0
142.5°	243.5	229.1	215.3	203.8	194.0	186.9	181.6	179.5	181.6	186.9	194.0
145°	246.1	232.8	220.0	208.7	200.4	193.0	188.6	187.1	188.6	193.0	200.4
147.5°	247.6	235.7	224.0	214.4	206.4	200.0	195.6	194.8	195.6	200.0	206.4
150°	248.0	237.7	226.4	217.6	210.7	204.3	200.4	199.8	200.4	204.3	210.7
152.5°	248.8	238.8	229.1	220.7	214.6	209.1	205.1	205.0	205.1	209.1	214.6
155°	249.0	241.2	232.8	225.9	220.5	215.6	212.7	212.7	212.7	215.6	220.5
157.5°	249.5	242.4	235.7	230.4	225.8	221.4	219.1	218.7	219.1	221.4	225.8
160°	249.5	243.6	237.7	232.8	229.4	225.4	223.4	223.4	223.4	225.4	229.4
162.5°	249.1	244.0	238.8	234.7	231.7	228.6	227.0	227.0	227.0	228.6	231.7
165°	248.0	244.5	240.6	237.2	235.2	232.8	231.8	232.3	231.8	232.8	235.2
167.5°	247.2	244.4	241.6	239.4	238.1	236.2	235.7	236.3	235.7	236.2	238.1
170°	246.1	244.1	241.6	240.6	239.6	238.2	237.7	238.7	237.7	238.2	239.6
172.5°	245.6	244.1	242.0	241.4	240.8	239.8	239.6	240.2	239.6	239.8	240.8
175°	244.5	243.6	242.6	242.1	242.1	241.2	241.6	242.1	241.6	241.2	242.1
177.5°	243.7	243.0	242.6	242.6	242.6	242.2	242.6	243.0	242.6	242.2	242.6
180°	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6



TEST NUMBER: P332056-935

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1373.4	1369.6	1364.2	1356.1	1349.5	1339.3	1339.3	1340.9	1340.9	1340.4	1339.3
5°	1331.7	1321.5	1309.4	1295.2	1280.3	1265.4	1262.7	1257.2	1253.2	1250.5	1247.2
7.5°	1287.7	1269.7	1252.0	1232.1	1213.9	1198.9	1188.5	1179.8	1174.3	1168.4	1164.0
10°	1257.9	1235.6	1214.6	1193.7	1170.6	1152.4	1140.9	1132.7	1126.7	1121.3	1118.5
12.5°	1222.8	1197.2	1174.1	1154.2	1128.9	1110.2	1099.2	1095.4	1088.2	1076.9	1070.9
15°	1171.3	1147.6	1119.9	1089.4	1077.3	1054.3	1041.4	1035.4	1031.2	1022.4	1019.8
17.5°	1127.3	1096.3	1065.2	1042.5	1019.9	1001.2	994.0	986.4	981.0	973.9	971.7
20°	1092.2	1064.5	1036.0	1011.7	987.9	967.7	961.6	956.1	950.7	947.4	944.6
22.5°	1056.4	1028.7	1005.1	982.4	957.1	943.8	937.2	931.3	927.5	925.1	922.5
25°	1006.3	981.9	955.5	935.1	914.9	906.0	902.0	898.6	896.0	892.5	891.8
27.5°	961.3	934.8	913.3	894.4	879.9	872.5	868.6	866.9	867.5	868.7	869.5
30°	927.7	903.4	885.8	869.5	856.0	849.2	848.5	848.5	851.3	852.0	853.3
32.5°	896.9	876.8	859.3	843.5	833.3	828.6	831.2	831.2	833.4	835.2	837.6
35°	852.0	834.3	820.8	807.3	798.5	800.5	801.8	803.2	806.6	810.6	813.4
37.5°	809.0	793.8	779.6	769.1	765.1	768.7	772.0	774.8	778.7	781.9	784.5
40°	778.2	766.6	753.1	743.6	745.0	747.1	749.8	753.1	756.6	758.5	761.3
42.5°	749.5	737.4	727.2	719.3	721.2	723.8	725.4	727.2	731.1	734.8	736.3
45°	705.8	696.3	686.8	682.1	683.5	684.8	686.1	688.2	691.6	694.3	694.9
47.5°	656.7	650.1	643.7	639.0	641.2	640.7	642.5	646.8	647.8	649.5	653.2
50°	625.3	619.1	611.7	610.4	610.4	610.4	611.1	616.5	616.5	619.1	621.9
52.5°	590.6	586.7	581.9	579.5	578.4	578.4	581.3	584.0	585.0	588.8	591.6
55°	539.3	535.3	531.2	529.2	527.8	529.2	534.6	535.9	539.3	541.3	543.4
57.5°	485.9	482.8	479.5	478.4	478.1	479.9	482.8	486.9	487.8	494.0	497.1
60°	450.6	445.9	443.2	443.2	441.9	448.0	446.6	453.4	454.7	458.8	463.6
62.5°	414.4	408.0	407.0	407.0	408.9	410.6	412.5	415.5	419.0	424.1	427.8
65°	355.9	352.6	357.3	356.6	355.2	359.3	359.3	362.7	366.8	371.5	378.9
67.5°	300.6	298.9	299.2	299.2	301.3	303.6	305.5	308.4	313.3	318.3	323.2
70°	263.2	265.3	261.9	264.6	266.7	267.3	268.6	272.7	278.1	281.5	286.9
72.5°	227.0	226.8	227.2	228.3	230.3	231.5	232.9	237.5	243.5	246.3	250.6
75°	174.6	173.9	175.9	175.9	179.3	180.6	182.0	184.1	189.5	193.6	196.9
77.5°	127.5	128.3	127.9	130.2	129.2	129.5	133.7	135.8	136.3	144.3	146.0
80°	96.1	97.5	98.2	98.8	99.4	98.2	102.9	104.9	104.9	109.6	113.0
82.5°	69.1	69.8	71.6	72.2	72.4	73.8	74.1	75.7	77.3	79.3	83.8
85°	34.5	36.5	37.2	36.5	37.2	35.9	37.9	38.6	39.3	39.3	39.3
87.5°	11.9	12.7	12.4	13.3	13.0	13.9	13.7	12.7	12.8	14.6	12.6
90°	5.4	6.4	7.8	9.3	10.8	12.3	11.8	12.3	12.7	13.3	14.2
92.5°	21.1	28.4	41.2	62.3	83.1	75.5	57.0	41.3	32.8	29.0	26.4
95°	44.7	63.8	105.6	178.7	259.3	291.2	236.2	176.8	119.9	93.8	76.1
97.5°	53.0	73.8	113.7	196.1	330.4	451.3	482.8	440.7	353.0	289.6	230.9
100°	58.9	78.1	112.4	185.1	314.3	465.0	561.8	579.0	539.2	481.7	412.0
102.5°	65.6	83.2	114.0	175.7	290.8	439.5	565.8	625.0	623.7	590.2	546.0
105°	76.6	91.9	118.4	168.9	261.7	394.9	535.8	638.4	687.5	696.9	684.1
107.5°	89.0	103.1	126.4	168.4	243.3	355.3	483.4	599.7	679.5	722.5	739.9
110°	97.2	111.0	133.1	170.4	236.2	332.9	450.3	562.7	653.2	715.1	749.4



TEST NUMBER: P332056-935

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	105.9	119.2	139.7	174.4	232.3	318.1	421.6	526.2	618.5	687.9	732.1
115°	118.8	132.1	150.8	180.7	230.8	302.0	387.0	477.9	563.3	635.5	689.0
117.5°	131.7	144.0	162.5	189.2	231.7	292.6	366.1	442.7	516.5	581.3	635.7
120°	140.0	152.2	169.9	195.4	233.2	288.3	355.1	424.3	490.6	549.5	599.2
122.5°	147.4	160.5	177.8	201.4	236.0	285.5	346.0	409.7	469.8	524.3	570.4
125°	158.6	171.9	189.1	210.7	240.1	281.9	334.4	390.4	443.9	491.1	530.4
127.5°	169.0	182.3	198.9	218.3	244.9	280.1	324.3	373.5	421.3	463.8	499.6
130°	175.3	188.6	204.7	223.4	248.0	279.0	318.7	362.9	407.1	446.9	480.3
132.5°	181.2	194.1	209.9	228.2	250.4	278.5	313.6	353.1	393.7	430.8	462.6
135°	189.1	202.3	217.6	234.3	253.9	277.9	306.9	339.8	374.7	406.7	434.6
137.5°	196.0	208.2	222.8	238.8	256.2	276.9	301.2	327.8	356.4	383.8	408.1
140°	199.8	212.2	226.4	241.2	257.8	276.5	297.6	320.7	345.7	369.3	390.4
142.5°	203.8	215.3	229.1	243.5	259.0	275.7	294.5	314.0	335.5	355.9	374.3
145°	208.7	220.0	232.8	246.1	259.8	274.5	290.2	305.9	322.2	337.9	352.1
147.5°	214.4	224.0	235.7	247.6	259.8	272.7	286.1	299.4	312.2	324.9	335.0
150°	217.6	226.4	237.7	248.0	259.8	271.0	283.4	294.6	305.9	316.2	325.6
152.5°	220.7	229.1	238.8	248.8	258.6	269.1	280.3	290.3	300.1	309.2	316.9
155°	225.9	232.8	241.2	249.0	257.4	265.7	275.5	283.9	291.7	299.1	305.0
157.5°	230.4	235.7	242.4	249.5	255.6	262.6	270.2	277.0	283.5	289.3	293.9
160°	232.8	237.7	243.6	249.5	254.9	260.3	266.7	273.0	278.4	283.4	286.8
162.5°	234.7	238.8	244.0	249.1	253.3	258.0	263.1	268.4	272.9	277.5	280.5
165°	237.2	240.6	244.5	248.0	251.0	254.4	258.3	262.3	265.2	268.6	271.0
167.5°	239.4	241.6	244.4	247.2	248.6	250.8	253.7	256.9	259.2	261.1	262.9
170°	240.6	241.6	244.1	246.1	247.0	248.5	251.0	253.4	254.9	256.8	257.8
172.5°	241.4	242.0	244.1	245.6	245.8	246.5	248.2	250.3	251.3	252.9	253.5
175°	242.1	242.6	243.6	244.5	244.1	244.1	245.0	246.1	246.5	247.5	247.5
177.5°	242.6	242.6	243.0	243.7	243.0	242.6	243.0	243.4	243.7	244.2	244.2
180°	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6



TEST NUMBER: P332056-935

CATALOG NUMBER: S123DIP-S1165D585U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1335.5	1335.0	1338.8	1336.0	1338.8	1335.0	1335.5	1339.3	1340.4	1340.9	1340.9
5°	1243.0	1245.1	1238.3	1238.3	1238.3	1245.1	1243.0	1247.2	1250.5	1253.2	1257.2
7.5°	1160.8	1157.8	1158.0	1154.4	1158.0	1157.8	1160.8	1164.0	1168.4	1174.3	1179.8
10°	1110.4	1106.4	1105.0	1105.7	1105.0	1106.4	1110.4	1118.5	1121.3	1126.7	1132.7
12.5°	1068.8	1067.9	1059.0	1059.1	1059.0	1067.9	1068.8	1070.9	1076.9	1088.2	1095.4
15°	1019.8	1006.9	1005.6	1009.6	1005.6	1006.9	1019.8	1019.8	1022.4	1031.2	1035.4
17.5°	970.6	963.9	964.2	962.3	964.2	963.9	970.6	971.7	973.9	981.0	986.4
20°	944.6	940.6	939.9	935.1	939.9	940.6	944.6	944.6	947.4	950.7	956.1
22.5°	920.8	919.5	919.9	914.6	919.9	919.5	920.8	922.5	925.1	927.5	931.3
25°	891.2	894.6	891.8	891.8	891.8	894.6	891.2	891.8	892.5	896.0	898.6
27.5°	871.2	871.0	869.7	869.7	869.7	871.0	871.2	869.5	868.7	867.5	866.9
30°	856.0	855.3	856.7	856.7	856.7	855.3	856.0	853.3	852.0	851.3	848.5
32.5°	840.9	841.8	842.1	842.6	842.1	841.8	840.9	837.6	835.2	833.4	831.2
35°	817.4	818.1	820.1	818.8	820.1	818.1	817.4	813.4	810.6	806.6	803.2
37.5°	785.7	788.8	788.2	789.3	788.2	788.8	785.7	784.5	781.9	778.7	774.8
40°	761.9	764.0	763.3	763.3	763.3	764.0	761.9	761.3	758.5	756.6	753.1
42.5°	737.6	739.1	737.3	736.2	737.3	739.1	737.6	736.3	734.8	731.1	727.2
45°	697.7	696.3	698.4	695.6	698.4	696.3	697.7	694.9	694.3	691.6	688.2
47.5°	653.0	654.4	654.9	656.9	654.9	654.4	653.0	653.2	649.5	647.8	646.8
50°	623.2	627.2	627.2	626.6	627.2	627.2	623.2	621.9	619.1	616.5	616.5
52.5°	594.0	595.9	598.6	598.5	598.6	595.9	594.0	591.6	588.8	585.0	584.0
55°	548.8	550.2	551.5	552.2	551.5	550.2	548.8	543.4	541.3	539.3	535.9
57.5°	502.0	501.4	504.6	505.6	504.6	501.4	502.0	497.1	494.0	487.8	486.9
60°	468.9	468.9	474.3	476.4	474.3	468.9	468.9	463.6	458.8	454.7	453.4
62.5°	433.8	435.9	441.3	438.5	441.3	435.9	433.8	427.8	424.1	419.0	415.5
65°	382.3	387.7	387.0	389.8	387.0	387.7	382.3	378.9	371.5	366.8	362.7
67.5°	328.6	332.0	336.8	337.3	336.8	332.0	328.6	323.2	318.3	313.3	308.4
70°	292.3	295.7	298.4	300.4	298.4	295.7	292.3	286.9	281.5	278.1	272.7
72.5°	257.2	258.9	265.4	262.5	265.4	258.9	257.2	250.6	246.3	243.5	237.5
75°	201.6	206.4	210.4	208.4	210.4	206.4	201.6	196.9	193.6	189.5	184.1
77.5°	149.1	153.9	155.8	154.0	155.8	153.9	149.1	146.0	144.3	136.3	135.8
80°	117.8	117.1	121.1	120.5	121.1	117.1	117.8	113.0	109.6	104.9	104.9
82.5°	86.4	85.7	87.6	88.0	87.6	85.7	86.4	83.8	79.3	77.3	75.7
85°	41.9	44.0	41.2	40.6	41.2	44.0	41.9	39.3	39.3	39.3	38.6
87.5°	12.5	12.6	12.1	11.5	12.1	12.6	12.5	12.6	14.6	12.8	12.7
90°	13.8	14.2	14.7	14.2	14.7	14.2	13.8	14.2	13.3	12.7	12.3
92.5°	25.6	24.0	24.5	23.7	24.5	24.0	25.6	26.4	29.0	32.8	41.3
95°	66.8	62.3	58.9	57.0	58.9	62.3	66.8	76.1	93.8	119.9	176.8
97.5°	194.7	172.5	159.3	155.1	159.3	172.5	194.7	230.9	289.6	353.0	440.7
100°	362.4	326.6	307.5	307.9	307.5	326.6	362.4	412.0	481.7	539.2	579.0
102.5°	507.4	479.0	463.0	451.7	463.0	479.0	507.4	546.0	590.2	623.7	625.0
105°	661.5	642.8	627.2	624.7	627.2	642.8	661.5	684.1	696.9	687.5	638.4
107.5°	740.4	734.1	728.8	724.3	728.8	734.1	740.4	739.9	722.5	679.5	599.7
110°	763.2	767.1	766.1	765.1	766.1	767.1	763.2	749.4	715.1	653.2	562.7



TEST NUMBER: P332056-935

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	757.2	769.5	773.2	773.4	773.2	769.5	757.2	732.1	687.9	618.5	526.2
115°	725.8	747.4	757.2	759.7	757.2	747.4	725.8	689.0	635.5	563.3	477.9
117.5°	674.1	698.8	713.0	716.3	713.0	698.8	674.1	635.7	581.3	516.5	442.7
120°	637.9	665.5	677.2	680.2	677.2	665.5	637.9	599.2	549.5	490.6	424.3
122.5°	604.9	629.6	642.7	646.4	642.7	629.6	604.9	570.4	524.3	469.8	409.7
125°	561.8	583.4	595.7	599.2	595.7	583.4	561.8	530.4	491.1	443.9	390.4
127.5°	527.5	546.0	557.1	560.3	557.1	546.0	527.5	499.6	463.8	421.3	373.5
130°	506.4	524.0	534.3	538.2	534.3	524.0	506.4	480.3	446.9	407.1	362.9
132.5°	487.1	504.7	513.8	516.6	513.8	504.7	487.1	462.6	430.8	393.7	353.1
135°	458.7	473.4	482.2	485.7	482.2	473.4	458.7	434.6	406.7	374.7	339.8
137.5°	428.3	443.2	450.7	453.0	450.7	443.2	428.3	408.1	383.8	356.4	327.8
140°	409.1	422.8	430.7	430.2	430.7	422.8	409.1	390.4	369.3	345.7	320.7
142.5°	390.2	402.4	409.5	409.0	409.5	402.4	390.2	374.3	355.9	335.5	314.0
145°	364.4	374.7	378.7	379.6	378.7	374.7	364.4	352.1	337.9	322.2	305.9
147.5°	344.3	351.3	355.1	355.4	355.1	351.3	344.3	335.0	324.9	312.2	299.4
150°	332.9	338.4	341.3	341.3	341.3	338.4	332.9	325.6	316.2	305.9	294.6
152.5°	322.7	327.8	329.5	329.5	329.5	327.8	322.7	316.9	309.2	300.1	290.3
155°	309.4	313.3	314.3	314.8	314.3	313.3	309.4	305.0	299.1	291.7	283.9
157.5°	297.7	300.7	301.4	301.4	301.4	300.7	297.7	293.9	289.3	283.5	277.0
160°	290.2	293.2	293.2	292.7	293.2	293.2	290.2	286.8	283.4	278.4	273.0
162.5°	282.8	285.3	285.3	284.8	285.3	285.3	282.8	280.5	277.5	272.9	268.4
165°	273.0	275.0	274.5	274.5	274.5	275.0	273.0	271.0	268.6	265.2	262.3
167.5°	263.8	265.2	264.7	264.7	264.7	265.2	263.8	262.9	261.1	259.2	256.9
170°	258.3	259.3	258.8	258.8	258.8	259.3	258.3	257.8	256.8	254.9	253.4
172.5°	253.6	254.6	253.7	253.3	253.7	254.6	253.6	253.5	252.9	251.3	250.3
175°	247.5	248.0	247.5	247.0	247.5	248.0	247.5	247.5	247.5	246.5	246.1
177.5°	243.7	244.2	243.4	243.4	243.4	244.2	243.7	244.2	244.2	243.7	243.4
180°	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6



TEST NUMBER: P332056-935

CATALOG NUMBER: S123DIP-S1165D585U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1339.3	1339.3	1349.5	1356.1	1364.2	1369.6	1373.4	1377.2	1383.7	1392.3	1402.1
5°	1262.7	1265.4	1280.3	1295.2	1309.4	1321.5	1331.7	1343.8	1358.7	1377.0	1397.3
7.5°	1188.5	1198.9	1213.9	1232.1	1252.0	1269.7	1287.7	1307.8	1328.7	1355.6	1384.1
10°	1140.9	1152.4	1170.6	1193.7	1214.6	1235.6	1257.9	1279.6	1306.0	1337.8	1374.3
12.5°	1099.2	1110.2	1128.9	1154.2	1174.1	1197.2	1222.8	1250.9	1280.6	1318.9	1360.3
15°	1041.4	1054.3	1077.3	1089.4	1119.9	1147.6	1171.3	1211.9	1249.8	1289.1	1337.1
17.5°	994.0	1001.2	1019.9	1042.5	1065.2	1096.3	1127.3	1161.1	1198.9	1247.0	1307.1
20°	961.6	967.7	987.9	1011.7	1036.0	1064.5	1092.2	1126.0	1168.6	1219.3	1284.4
22.5°	937.2	943.8	957.1	982.4	1005.1	1028.7	1056.4	1096.7	1142.1	1191.8	1262.1
25°	902.0	906.0	914.9	935.1	955.5	981.9	1006.3	1044.1	1090.8	1149.0	1219.3
27.5°	868.6	872.5	879.9	894.4	913.3	934.8	961.3	993.5	1040.9	1104.1	1178.8
30°	848.5	849.2	856.0	869.5	885.8	903.4	927.7	964.2	1008.9	1073.2	1151.7
32.5°	831.2	828.6	833.3	843.5	859.3	876.8	896.9	932.9	975.9	1039.1	1119.7
35°	801.8	800.5	798.5	807.3	820.8	834.3	852.0	879.0	927.7	986.6	1071.2
37.5°	772.0	768.7	765.1	769.1	779.6	793.8	809.0	833.1	875.1	939.9	1020.8
40°	749.8	747.1	745.0	743.6	753.1	766.6	778.2	801.2	840.4	902.0	981.9
42.5°	725.4	723.8	721.2	719.3	727.2	737.4	749.5	769.8	809.0	866.9	942.4
45°	686.1	684.8	683.5	682.1	686.8	696.3	705.8	720.7	754.5	810.6	879.0
47.5°	642.5	640.7	641.2	639.0	643.7	650.1	656.7	672.6	705.1	750.4	800.4
50°	611.1	610.4	610.4	610.4	611.7	619.1	625.3	637.4	667.2	712.6	748.4
52.5°	581.3	578.4	578.4	579.5	581.9	586.7	590.6	603.9	629.8	667.1	699.6
55°	534.6	529.2	527.8	529.2	531.2	535.3	539.3	550.2	572.5	600.2	619.1
57.5°	482.8	479.9	478.1	478.4	479.5	482.8	485.9	497.7	515.2	529.7	541.9
60°	446.6	448.0	441.9	443.2	443.2	445.9	450.6	458.1	473.0	483.1	495.3
62.5°	412.5	410.6	408.9	407.0	407.0	408.0	414.4	420.3	432.9	438.2	447.7
65°	359.3	359.3	355.2	356.6	357.3	352.6	355.9	362.7	370.8	372.8	381.7
67.5°	305.5	303.6	301.3	299.2	299.2	298.9	300.6	303.9	310.0	310.7	317.5
70°	268.6	267.3	266.7	264.6	261.9	265.3	263.2	266.7	270.0	270.7	274.7
72.5°	232.9	231.5	230.3	228.3	227.2	226.8	227.0	230.9	233.2	232.2	236.9
75°	182.0	180.6	179.3	175.9	175.9	173.9	174.6	177.3	180.0	178.0	182.0
77.5°	133.7	129.5	129.2	130.2	127.9	128.3	127.5	127.1	128.3	128.5	132.1
80°	102.9	98.2	99.4	98.8	98.2	97.5	96.1	96.8	97.5	98.2	100.1
82.5°	74.1	73.8	72.4	72.2	71.6	69.8	69.1	70.3	70.9	70.5	72.0
85°	37.9	35.9	37.2	36.5	37.2	36.5	34.5	34.5	35.9	35.2	36.5
87.5°	13.7	13.9	13.0	13.3	12.4	12.7	11.9	12.2	12.5	12.3	13.2
90°	11.8	12.3	10.8	9.3	7.8	6.4	5.4	4.4	2.9	2.0	0.9
92.5°	57.0	75.5	83.1	62.3	41.2	28.4	21.1	17.0	13.2	9.0	6.1
95°	236.2	291.2	259.3	178.7	105.6	63.8	44.7	31.9	23.6	18.2	16.7
97.5°	482.8	451.3	330.4	196.1	113.7	73.8	53.0	40.5	33.2	29.0	28.5
100°	561.8	465.0	314.3	185.1	112.4	78.1	58.9	47.2	40.3	36.9	36.3
102.5°	565.8	439.5	290.8	175.7	114.0	83.2	65.6	55.0	48.6	45.5	44.6
105°	535.8	394.9	261.7	168.9	118.4	91.9	76.6	67.2	61.4	58.5	57.0
107.5°	483.4	355.3	243.3	168.4	126.4	103.1	89.0	80.2	74.5	71.6	70.1
110°	450.3	332.9	236.2	170.4	133.1	111.0	97.2	88.9	83.5	81.0	79.6



TEST NUMBER: P332056-935

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	421.6	318.1	232.3	174.4	139.7	119.2	105.9	97.6	92.1	89.7	88.2
115°	387.0	302.0	230.8	180.7	150.8	132.1	118.8	110.5	105.6	102.6	100.7
117.5°	366.1	292.6	231.7	189.2	162.5	144.0	131.7	122.3	117.9	115.4	113.1
120°	355.1	288.3	233.2	195.4	169.9	152.2	140.0	130.6	125.7	123.3	121.8
122.5°	346.0	285.5	236.0	201.4	177.8	160.5	147.4	138.4	133.2	130.7	129.2
125°	334.4	281.9	240.1	210.7	189.1	171.9	158.6	149.3	143.9	140.9	140.0
127.5°	324.3	280.1	244.9	218.3	198.9	182.3	169.0	158.7	153.3	149.6	148.1
130°	318.7	279.0	248.0	223.4	204.7	188.6	175.3	165.0	159.1	154.7	153.3
132.5°	313.6	278.5	250.4	228.2	209.9	194.1	181.2	170.9	163.8	159.0	157.1
135°	306.9	277.9	253.9	234.3	217.6	202.3	189.1	178.7	171.4	166.0	164.0
137.5°	301.2	276.9	256.2	238.8	222.8	208.2	196.0	185.7	177.9	172.5	170.5
140°	297.6	276.5	257.8	241.2	226.4	212.2	199.8	190.0	182.2	177.3	174.9
142.5°	294.5	275.7	259.0	243.5	229.1	215.3	203.8	194.0	186.9	181.6	179.5
145°	290.2	274.5	259.8	246.1	232.8	220.0	208.7	200.4	193.0	188.6	187.1
147.5°	286.1	272.7	259.8	247.6	235.7	224.0	214.4	206.4	200.0	195.6	194.8
150°	283.4	271.0	259.8	248.0	237.7	226.4	217.6	210.7	204.3	200.4	199.8
152.5°	280.3	269.1	258.6	248.8	238.8	229.1	220.7	214.6	209.1	205.1	205.0
155°	275.5	265.7	257.4	249.0	241.2	232.8	225.9	220.5	215.6	212.7	212.7
157.5°	270.2	262.6	255.6	249.5	242.4	235.7	230.4	225.8	221.4	219.1	218.7
160°	266.7	260.3	254.9	249.5	243.6	237.7	232.8	229.4	225.4	223.4	223.4
162.5°	263.1	258.0	253.3	249.1	244.0	238.8	234.7	231.7	228.6	227.0	227.0
165°	258.3	254.4	251.0	248.0	244.5	240.6	237.2	235.2	232.8	231.8	232.3
167.5°	253.7	250.8	248.6	247.2	244.4	241.6	239.4	238.1	236.2	235.7	236.3
170°	251.0	248.5	247.0	246.1	244.1	241.6	240.6	239.6	238.2	237.7	238.7
172.5°	248.2	246.5	245.8	245.6	244.1	242.0	241.4	240.8	239.8	239.6	240.2
175°	245.0	244.1	244.1	244.5	243.6	242.6	242.1	242.1	241.2	241.6	242.1
177.5°	243.0	242.6	243.0	243.7	243.0	242.6	242.6	242.6	242.2	242.6	243.0
180°	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6



TEST NUMBER: P332056-935

CATALOG NUMBER: S123DIP-S1165D585U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1405.3	1408.0	1417.2	1423.7	1431.3	1435.6	1439.9	1443.2	1447.5	1448.6	1464.3
5°	1411.5	1425.1	1448.8	1466.4	1488.0	1511.7	1527.9	1535.4	1555.0	1571.2	1603.7
7.5°	1409.8	1438.6	1474.4	1511.4	1551.2	1588.0	1620.0	1657.9	1684.8	1725.3	1765.2
10°	1408.2	1446.7	1492.7	1540.2	1595.6	1647.0	1693.1	1744.5	1787.1	1843.2	1891.3
12.5°	1403.3	1450.0	1513.9	1569.9	1637.3	1708.2	1776.4	1842.5	1880.3	1973.8	2018.0
15°	1391.3	1446.7	1526.6	1611.9	1704.5	1788.5	1875.1	1944.1	2055.7	2137.6	2189.7
17.5°	1368.2	1446.0	1540.7	1643.5	1756.3	1866.8	1965.0	2069.7	2188.1	2287.2	2392.7
20°	1357.5	1442.7	1548.3	1661.9	1779.0	1904.2	2015.9	2141.7	2271.0	2368.4	2503.7
22.5°	1337.4	1434.0	1547.7	1674.4	1799.6	1929.1	2059.7	2186.6	2335.9	2470.1	2599.0
25°	1304.7	1412.9	1530.7	1672.1	1818.9	1948.9	2105.1	2273.6	2429.3	2601.9	2730.4
27.5°	1270.2	1385.9	1503.8	1635.4	1793.3	1947.5	2144.1	2334.5	2524.8	2673.8	2769.0
30°	1243.7	1356.1	1477.9	1610.5	1766.8	1950.2	2170.1	2377.8	2563.3	2691.1	2744.6
32.5°	1215.0	1329.0	1436.8	1575.9	1742.4	1948.5	2186.3	2403.3	2565.4	2650.6	2640.2
35°	1170.0	1265.4	1370.3	1504.3	1700.5	1936.6	2195.8	2405.5	2505.1	2486.8	2348.7
37.5°	1105.0	1185.3	1288.6	1435.2	1651.7	1911.6	2176.9	2334.3	2327.8	2179.0	1979.0
40°	1064.5	1132.7	1232.3	1386.6	1613.9	1895.4	2147.1	2249.3	2162.7	1954.9	1715.4
42.5°	1011.3	1074.3	1173.8	1332.4	1572.2	1862.3	2090.2	2119.9	1950.4	1711.3	1491.8
45°	929.1	984.6	1087.4	1251.2	1509.7	1790.4	1951.5	1879.1	1651.1	1404.1	1237.0
47.5°	840.7	898.4	997.3	1165.5	1419.3	1682.4	1759.1	1605.1	1371.0	1170.6	1017.2
50°	785.0	840.4	937.2	1107.1	1358.1	1593.5	1625.4	1426.4	1211.3	1035.4	909.5
52.5°	728.7	780.9	876.1	1046.4	1286.7	1490.7	1471.1	1268.3	1070.5	920.6	821.7
55°	644.9	694.3	785.0	944.6	1163.2	1324.9	1253.9	1060.3	896.6	780.2	705.1
57.5°	569.9	617.3	695.5	839.7	1029.8	1140.9	1050.5	887.4	757.2	667.6	611.6
60°	519.0	560.9	635.4	769.4	934.5	1019.1	929.8	785.7	676.0	604.2	554.2
62.5°	470.8	507.4	576.4	697.9	841.4	912.4	822.0	700.1	606.7	543.1	500.6
65°	397.9	431.0	492.0	586.7	704.4	751.8	674.0	575.1	502.7	455.4	427.0
67.5°	331.3	359.5	412.1	486.6	573.3	607.8	548.5	472.1	417.5	379.4	356.9
70°	286.9	311.3	352.6	416.8	495.3	521.7	466.2	403.3	363.3	332.9	311.9
72.5°	249.5	267.4	304.9	354.6	420.1	441.1	402.3	347.0	309.8	286.9	270.3
75°	190.1	205.0	229.4	269.3	314.7	326.8	297.7	263.2	238.2	222.0	209.1
77.5°	137.1	148.1	165.7	190.3	221.7	232.6	214.2	191.2	173.0	162.0	154.8
80°	103.5	112.4	127.3	147.5	166.4	172.5	161.7	144.1	131.3	125.2	119.1
82.5°	76.5	81.5	90.4	104.2	117.2	124.4	115.2	104.6	97.7	92.1	89.9
85°	38.6	41.2	45.4	50.7	58.9	61.6	58.2	55.4	51.4	48.0	48.0
87.5°	14.5	14.6	16.6	17.8	20.2	22.1	21.9	21.1	20.8	20.2	19.8
90°	2.0	2.9	4.4	5.4	6.4	7.8	9.3	10.8	12.3	11.8	12.3
92.5°	9.0	13.2	17.0	21.1	28.4	41.2	62.3	83.1	75.5	57.0	41.3
95°	18.2	23.6	31.9	44.7	63.8	105.6	178.7	259.3	291.2	236.2	176.8
97.5°	29.0	33.2	40.5	53.0	73.8	113.7	196.1	330.4	451.3	482.8	440.7
100°	36.9	40.3	47.2	58.9	78.1	112.4	185.1	314.3	465.0	561.8	579.0
102.5°	45.5	48.6	55.0	65.6	83.2	114.0	175.7	290.8	439.5	565.8	625.0
105°	58.5	61.4	67.2	76.6	91.9	118.4	168.9	261.7	394.9	535.8	638.4
107.5°	71.6	74.5	80.2	89.0	103.1	126.4	168.4	243.3	355.3	483.4	599.7
110°	81.0	83.5	88.9	97.2	111.0	133.1	170.4	236.2	332.9	450.3	562.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	89.7	92.1	97.6	105.9	119.2	139.7	174.4	232.3	318.1	421.6	526.2
115°	102.6	105.6	110.5	118.8	132.1	150.8	180.7	230.8	302.0	387.0	477.9
117.5°	115.4	117.9	122.3	131.7	144.0	162.5	189.2	231.7	292.6	366.1	442.7
120°	123.3	125.7	130.6	140.0	152.2	169.9	195.4	233.2	288.3	355.1	424.3
122.5°	130.7	133.2	138.4	147.4	160.5	177.8	201.4	236.0	285.5	346.0	409.7
125°	140.9	143.9	149.3	158.6	171.9	189.1	210.7	240.1	281.9	334.4	390.4
127.5°	149.6	153.3	158.7	169.0	182.3	198.9	218.3	244.9	280.1	324.3	373.5
130°	154.7	159.1	165.0	175.3	188.6	204.7	223.4	248.0	279.0	318.7	362.9
132.5°	159.0	163.8	170.9	181.2	194.1	209.9	228.2	250.4	278.5	313.6	353.1
135°	166.0	171.4	178.7	189.1	202.3	217.6	234.3	253.9	277.9	306.9	339.8
137.5°	172.5	177.9	185.7	196.0	208.2	222.8	238.8	256.2	276.9	301.2	327.8
140°	177.3	182.2	190.0	199.8	212.2	226.4	241.2	257.8	276.5	297.6	320.7
142.5°	181.6	186.9	194.0	203.8	215.3	229.1	243.5	259.0	275.7	294.5	314.0
145°	188.6	193.0	200.4	208.7	220.0	232.8	246.1	259.8	274.5	290.2	305.9
147.5°	195.6	200.0	206.4	214.4	224.0	235.7	247.6	259.8	272.7	286.1	299.4
150°	200.4	204.3	210.7	217.6	226.4	237.7	248.0	259.8	271.0	283.4	294.6
152.5°	205.1	209.1	214.6	220.7	229.1	238.8	248.8	258.6	269.1	280.3	290.3
155°	212.7	215.6	220.5	225.9	232.8	241.2	249.0	257.4	265.7	275.5	283.9
157.5°	219.1	221.4	225.8	230.4	235.7	242.4	249.5	255.6	262.6	270.2	277.0
160°	223.4	225.4	229.4	232.8	237.7	243.6	249.5	254.9	260.3	266.7	273.0
162.5°	227.0	228.6	231.7	234.7	238.8	244.0	249.1	253.3	258.0	263.1	268.4
165°	231.8	232.8	235.2	237.2	240.6	244.5	248.0	251.0	254.4	258.3	262.3
167.5°	235.7	236.2	238.1	239.4	241.6	244.4	247.2	248.6	250.8	253.7	256.9
170°	237.7	238.2	239.6	240.6	241.6	244.1	246.1	247.0	248.5	251.0	253.4
172.5°	239.6	239.8	240.8	241.4	242.0	244.1	245.6	245.8	246.5	248.2	250.3
175°	241.6	241.2	242.1	242.1	242.6	243.6	244.5	244.1	244.1	245.0	246.1
177.5°	242.6	242.2	242.6	242.6	242.6	243.0	243.7	243.0	242.6	243.0	243.4
180°	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1469.7	1470.2	1476.3	1480.6	1478.4	1481.1	1482.2
5°	1605.8	1630.1	1643.0	1652.4	1653.1	1653.8	1659.2
7.5°	1798.6	1824.7	1843.8	1872.8	1881.5	1891.3	1888.4
10°	1939.4	1977.9	2011.1	2028.7	2047.6	2075.4	2053.1
12.5°	2070.9	2139.2	2189.7	2217.1	2234.9	2240.5	2229.6
15°	2287.8	2377.1	2425.2	2423.9	2484.8	2511.2	2469.9
17.5°	2486.8	2569.2	2635.3	2669.1	2719.8	2731.1	2725.9
20°	2608.6	2698.6	2750.0	2808.2	2834.6	2858.3	2862.3
22.5°	2713.6	2794.4	2849.7	2898.0	2920.2	2931.4	2938.2
25°	2821.8	2885.4	2918.5	2935.4	2941.5	2940.1	2931.4
27.5°	2814.3	2819.2	2782.7	2746.8	2714.7	2678.6	2666.1
30°	2741.3	2684.3	2582.9	2525.4	2440.8	2373.8	2400.8
32.5°	2549.1	2435.9	2321.9	2196.2	2092.1	2062.5	2032.7
35°	2175.5	1976.6	1860.2	1724.8	1670.7	1616.6	1579.3
37.5°	1760.1	1606.2	1468.1	1379.6	1325.3	1291.1	1272.7
40°	1521.8	1383.1	1269.5	1197.7	1156.4	1117.8	1112.5
42.5°	1331.9	1202.9	1117.3	1060.2	1020.5	1004.2	992.3
45°	1090.8	1000.8	943.3	902.7	876.3	866.2	852.6
47.5°	923.3	859.6	816.5	788.8	769.0	761.4	760.3
50°	829.6	776.8	745.0	723.3	707.8	705.1	694.3
52.5°	759.2	713.5	688.7	669.8	658.6	651.0	647.7
55°	659.1	628.6	606.3	595.5	586.7	579.2	579.2
57.5°	576.7	551.2	536.5	527.3	524.5	519.3	515.9
60°	525.8	504.1	492.7	484.5	479.1	479.7	473.6
62.5°	476.0	461.9	450.9	442.8	436.4	436.4	436.9
65°	405.4	394.5	386.4	383.7	379.6	374.9	376.3
67.5°	343.5	333.3	327.0	322.4	321.0	318.5	322.4
70°	299.1	291.6	286.9	282.8	281.5	282.1	285.6
72.5°	258.5	253.2	250.1	248.2	245.2	245.4	247.6
75°	203.0	199.0	196.2	194.2	193.6	193.6	193.6
77.5°	149.1	148.2	147.0	144.0	144.1	144.9	145.1
80°	117.8	115.7	115.0	113.7	111.7	110.3	113.7
82.5°	88.0	85.9	85.2	85.0	81.9	81.6	84.5
85°	47.4	45.4	46.0	45.4	45.4	44.7	44.7
87.5°	19.4	18.9	18.5	19.0	18.5	18.1	19.1
90°	12.7	13.3	14.2	13.8	14.2	14.7	14.2
92.5°	32.8	29.0	26.4	25.6	24.0	24.5	23.7
95°	119.9	93.8	76.1	66.8	62.3	58.9	57.0
97.5°	353.0	289.6	230.9	194.7	172.5	159.3	155.1
100°	539.2	481.7	412.0	362.4	326.6	307.5	307.9
102.5°	623.7	590.2	546.0	507.4	479.0	463.0	451.7
105°	687.5	696.9	684.1	661.5	642.8	627.2	624.7
107.5°	679.5	722.5	739.9	740.4	734.1	728.8	724.3
110°	653.2	715.1	749.4	763.2	767.1	766.1	765.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	618.5	687.9	732.1	757.2	769.5	773.2	773.4
115°	563.3	635.5	689.0	725.8	747.4	757.2	759.7
117.5°	516.5	581.3	635.7	674.1	698.8	713.0	716.3
120°	490.6	549.5	599.2	637.9	665.5	677.2	680.2
122.5°	469.8	524.3	570.4	604.9	629.6	642.7	646.4
125°	443.9	491.1	530.4	561.8	583.4	595.7	599.2
127.5°	421.3	463.8	499.6	527.5	546.0	557.1	560.3
130°	407.1	446.9	480.3	506.4	524.0	534.3	538.2
132.5°	393.7	430.8	462.6	487.1	504.7	513.8	516.6
135°	374.7	406.7	434.6	458.7	473.4	482.2	485.7
137.5°	356.4	383.8	408.1	428.3	443.2	450.7	453.0
140°	345.7	369.3	390.4	409.1	422.8	430.7	430.2
142.5°	335.5	355.9	374.3	390.2	402.4	409.5	409.0
145°	322.2	337.9	352.1	364.4	374.7	378.7	379.6
147.5°	312.2	324.9	335.0	344.3	351.3	355.1	355.4
150°	305.9	316.2	325.6	332.9	338.4	341.3	341.3
152.5°	300.1	309.2	316.9	322.7	327.8	329.5	329.5
155°	291.7	299.1	305.0	309.4	313.3	314.3	314.8
157.5°	283.5	289.3	293.9	297.7	300.7	301.4	301.4
160°	278.4	283.4	286.8	290.2	293.2	293.2	292.7
162.5°	272.9	277.5	280.5	282.8	285.3	285.3	284.8
165°	265.2	268.6	271.0	273.0	275.0	274.5	274.5
167.5°	259.2	261.1	262.9	263.8	265.2	264.7	264.7
170°	254.9	256.8	257.8	258.3	259.3	258.8	258.8
172.5°	251.3	252.9	253.5	253.6	254.6	253.7	253.3
175°	246.5	247.5	247.5	247.5	248.0	247.5	247.0
177.5°	243.7	244.2	244.2	243.7	244.2	243.4	243.4
180°	242.6	242.6	242.6	242.6	242.6	242.6	242.6

(END OF REPORT)