

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: P332083-935

Luminaire Tested: **S123DIP-S1165D1195U935-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332083-935  
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-S1165D1195U935-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1195 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7937.2 lumens  
Efficiency: N/A  
Efficacy: 110.7 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: General Diffuse

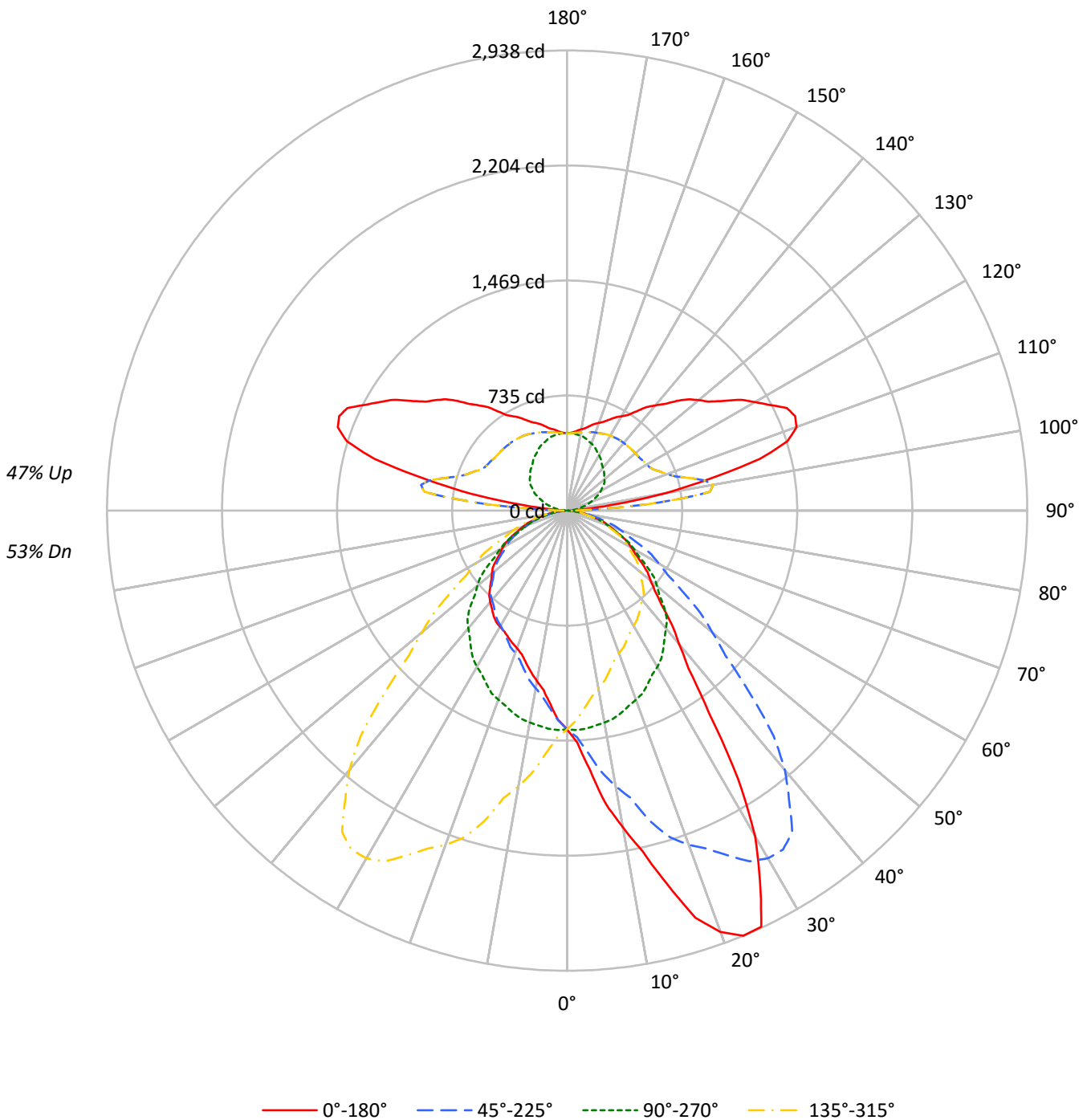
Input Watts (W): 71.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	99	95	91	87	91	88	84	82	75	73	71	63	62	60	53	51	50	45
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43	38
3	82	73	66	60	76	68	62	57	59	54	50	50	46	43	42	39	37	33
4	76	65	57	51	70	60	54	48	52	47	43	44	40	37	37	34	32	28
5	69	58	50	44	64	54	47	41	47	41	37	40	36	32	34	30	28	25
6	64	52	44	38	59	49	41	36	42	36	32	36	32	28	31	27	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	28	25	28	25	22	19
8	55	43	35	30	51	40	33	28	35	29	25	30	26	22	26	22	20	17
9	51	39	31	26	47	37	30	25	32	27	23	28	23	20	24	20	18	16
10	48	36	29	24	44	34	27	23	29	24	20	26	21	18	22	19	16	14

**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	1.7
10°-20°	441.2	5.6
20°-30°	740.4	9.3
30°-40°	838.4	10.6
40°-50°	751.8	9.5
50°-60°	606.7	7.6
60°-70°	422.8	5.3
70°-80°	222.2	2.8
80°-90°	58.2	0.7
90°-100°	275.0	3.5
100°-110°	778.7	9.8
110°-120°	766.1	9.7
120°-130°	611.0	7.7
130°-140°	481.8	6.1
140°-150°	359.6	4.5
150°-160°	250.6	3.2
160°-170°	147.2	1.9
170°-180°	47.9	0.6
0°-30°	1319.2	16.6
0°-40°	2157.5	27.2
0°-60°	3516.1	44.3
0°-90°	4219.2	53.2
90°-120°	1819.8	22.9
90°-150°	3272.2	41.2
90°-180°	3718.0	46.8
0°-180°	7937.2	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	54
90°	29	2	29	2	29	18
95°	116	34	116	34	116	209
105°	1272	116	1272	116	1272	1255
115°	1548	205	1548	205	1548	1504
125°	1220	285	1220	285	1220	1106
135°	989	334	989	334	989	767
145°	773	381	773	381	773	492
155°	641	433	641	433	641	299
165°	559	473	559	473	559	160
175°	503	493	503	493	503	49
180°	494	494	494	494	494	



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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°	22.0	21.2	21.5	21.9	21.5	21.6	22.0	22.3	22.6	23.4	23.3
90°	29.0	30.0	29.0	28.0	29.0	27.0	26.0	25.0	24.0	25.0	22.0
92.5°	48.2	50.0	49.0	52.0	53.8	59.0	66.8	84.2	116.1	153.9	169.3
95°	116.1	120.0	127.1	136.0	155.1	191.1	244.1	360.2	481.1	593.2	528.2
97.5°	315.9	324.5	351.5	396.6	470.4	590.0	719.0	897.7	983.5	919.3	673.0
100°	627.2	626.2	665.2	738.2	839.3	981.4	1098.4	1179.4	1144.4	947.4	640.2
102.5°	920.2	943.1	975.8	1033.5	1112.2	1202.2	1270.4	1273.1	1152.4	895.4	592.2
105°	1272.5	1277.5	1309.5	1347.5	1393.5	1419.5	1400.5	1300.5	1091.4	804.3	533.2
107.5°	1475.3	1484.5	1495.3	1508.1	1507.4	1471.7	1384.1	1221.6	984.6	723.8	495.6
110°	1558.6	1560.6	1562.5	1554.5	1526.6	1456.6	1330.5	1146.4	917.3	678.2	481.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1575.4	1574.9	1567.4	1542.6	1491.3	1401.3	1260.1	1071.9	858.9	647.8	473.2
115°	1547.6	1542.6	1522.5	1478.5	1403.5	1294.4	1147.4	973.4	788.2	615.2	470.2
117.5°	1459.1	1452.3	1423.5	1373.1	1294.9	1184.2	1052.1	901.9	745.6	596.0	472.0
120°	1385.5	1379.5	1355.5	1299.4	1220.5	1119.4	999.4	864.3	723.2	587.2	475.2
122.5°	1316.6	1309.1	1282.6	1232.3	1162.0	1068.2	956.9	834.7	704.8	581.6	480.8
125°	1220.5	1213.4	1188.4	1144.4	1080.4	1000.3	904.3	795.3	681.2	574.2	489.1
127.5°	1141.2	1134.8	1112.2	1074.6	1017.5	944.7	858.1	760.9	660.5	570.6	498.8
130°	1096.4	1088.4	1067.4	1031.4	978.4	910.3	829.3	739.3	649.2	568.2	505.1
132.5°	1052.4	1046.8	1028.1	992.1	942.4	877.5	802.1	719.3	638.9	567.4	510.0
135°	989.4	982.3	964.3	934.4	885.3	828.3	763.3	692.2	625.3	566.2	517.2
137.5°	922.7	918.1	902.9	872.5	831.3	781.9	725.8	667.6	613.4	564.0	522.0
140°	876.3	877.3	861.3	833.3	795.3	752.3	704.2	653.2	606.2	563.2	525.2
142.5°	833.1	834.1	819.7	794.9	762.5	725.0	683.5	639.6	599.8	561.6	527.6
145°	773.3	771.3	763.3	742.3	717.2	688.3	656.3	623.2	591.2	559.2	529.2
147.5°	724.0	723.2	715.7	701.5	682.4	661.9	636.0	609.8	582.8	555.4	529.2
150°	695.3	695.3	689.2	678.2	663.2	644.2	623.2	600.2	577.2	552.2	529.2
152.5°	671.2	671.2	667.6	657.5	645.7	629.8	611.2	591.4	570.8	548.2	526.8
155°	641.2	640.2	638.3	630.3	621.2	609.2	594.2	578.2	561.2	541.2	524.2
157.5°	613.8	614.0	612.4	606.4	598.6	589.2	577.6	564.2	550.4	535.0	520.8
160°	596.2	597.2	597.2	591.2	584.2	577.2	567.2	556.2	543.2	530.2	519.2
162.5°	580.2	581.2	581.2	576.0	571.4	565.2	556.0	546.6	536.0	525.4	516.0
165°	559.2	559.2	560.2	556.2	552.2	547.2	540.2	534.2	526.2	518.1	511.2
167.5°	539.2	539.2	540.2	537.4	535.6	532.0	528.0	523.4	516.8	511.0	506.4
170°	527.2	527.2	528.2	526.2	525.2	523.1	519.2	516.2	511.2	506.2	503.2
172.5°	516.0	516.8	518.6	516.6	516.3	515.2	512.0	509.8	505.6	502.1	500.8
175°	503.2	504.2	505.1	504.2	504.2	504.2	502.1	501.2	499.2	497.1	497.1
177.5°	495.8	495.8	497.4	496.5	497.4	497.4	496.5	495.8	495.0	494.2	495.0
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



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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°	23.8	23.8	21.5	18.9	17.5	15.2	14.9	13.4	12.7	13.1	13.2
90°	19.0	16.0	13.0	11.0	9.0	6.0	4.0	2.0	4.0	6.0	9.0
92.5°	127.1	84.0	57.9	43.0	34.6	26.8	18.4	12.4	18.4	26.8	34.6
95°	364.1	215.1	130.0	91.0	65.0	48.0	37.0	34.0	37.0	48.0	65.0
97.5°	399.5	231.5	150.2	108.1	82.4	67.6	59.0	58.0	59.0	67.6	82.4
100°	377.1	229.1	159.0	120.0	96.0	82.1	75.0	74.0	75.0	82.1	96.0
102.5°	357.9	232.3	169.4	133.6	112.0	98.8	92.6	90.8	92.6	98.8	112.0
105°	344.1	241.1	187.1	156.0	137.1	125.0	119.1	116.1	119.1	125.0	137.1
107.5°	343.1	257.5	210.1	181.2	163.4	151.6	145.9	142.8	145.9	151.6	163.4
110°	347.2	271.1	226.1	198.0	181.1	170.0	165.1	162.0	165.1	170.0	181.1





TEST NUMBER: P332083-935

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	355.2	284.7	242.9	215.7	198.6	187.7	182.7	179.7	182.7	187.7	198.6
115°	368.2	307.1	269.1	242.1	225.1	215.1	209.1	205.1	209.1	215.1	225.1
117.5°	385.3	330.9	293.3	268.3	249.3	240.0	235.1	230.5	235.1	240.0	249.3
120°	398.1	346.1	310.1	285.1	266.1	256.1	251.1	248.1	251.1	256.1	266.1
122.5°	410.2	362.1	326.9	300.3	282.1	271.3	266.3	263.3	266.3	271.3	282.1
125°	429.1	385.1	350.1	323.1	304.1	293.1	287.1	285.1	287.1	293.1	304.1
127.5°	444.8	405.1	371.3	344.3	323.3	312.1	304.7	301.7	304.7	312.1	323.3
130°	455.1	417.2	384.1	357.1	336.1	324.1	315.1	312.1	315.1	324.1	336.1
132.5°	464.8	427.6	395.4	369.1	348.1	333.7	323.9	320.1	323.9	333.7	348.1
135°	477.2	443.2	412.2	385.1	364.1	349.1	338.1	334.2	338.1	349.1	364.1
137.5°	486.4	453.9	424.1	399.2	378.3	362.3	351.5	347.3	351.5	362.3	378.3
140°	491.2	461.2	432.1	407.2	387.1	371.1	361.1	356.1	361.1	371.1	387.1
142.5°	495.9	466.7	438.6	415.2	395.1	380.7	370.0	365.8	370.0	380.7	395.1
145°	501.2	474.2	448.2	425.2	408.1	393.1	384.1	381.2	384.1	393.1	408.1
147.5°	504.4	480.2	456.3	436.8	420.3	407.3	398.6	396.7	398.6	407.3	420.3
150°	505.1	484.1	461.2	443.2	429.1	416.1	408.1	407.2	408.1	416.1	429.1
152.5°	506.8	486.6	466.7	449.5	437.1	425.8	417.8	417.6	417.8	425.8	437.1
155°	507.2	491.2	474.2	460.1	449.2	439.2	433.2	433.2	433.2	439.2	449.2
157.5°	508.2	493.8	480.2	469.3	459.9	451.2	446.3	445.6	446.3	451.2	459.9
160°	508.2	496.2	484.1	474.2	467.2	459.2	455.1	455.1	455.1	459.2	467.2
162.5°	507.4	497.0	486.6	478.2	472.0	465.5	462.4	462.4	462.4	465.5	472.0
165°	505.1	498.2	490.2	483.2	479.1	474.2	472.2	473.2	472.2	474.2	479.1
167.5°	503.6	498.0	492.1	487.8	485.0	481.1	480.2	481.4	480.2	481.1	485.0
170°	501.2	497.1	492.1	490.2	488.2	485.2	484.1	486.2	484.1	485.2	488.2
172.5°	500.4	497.1	493.0	491.8	490.6	488.4	488.2	489.4	488.2	488.4	490.6
175°	498.2	496.2	494.2	493.2	493.2	491.2	492.1	493.2	492.1	491.2	493.2
177.5°	496.5	495.0	494.2	494.2	494.2	493.4	494.2	495.0	494.2	493.4	494.2
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



TEST NUMBER: P332083-935

CATALOG NUMBER: S123DIP-S1165D1195U935-4F0-1E-UDD-A4

**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°	13.0	13.9	14.0	15.2	15.2	16.4	16.2	15.3	15.5	17.3	15.6
90°	11.0	13.0	16.0	19.0	22.0	25.0	24.0	25.0	26.0	27.0	29.0
92.5°	43.0	57.9	84.0	127.1	169.3	153.9	116.1	84.2	66.8	59.0	53.8
95°	91.0	130.0	215.1	364.1	528.2	593.2	481.1	360.2	244.1	191.1	155.1
97.5°	108.1	150.2	231.5	399.5	673.0	919.3	983.5	897.7	719.0	590.0	470.4
100°	120.0	159.0	229.1	377.1	640.2	947.4	1144.4	1179.4	1098.4	981.4	839.3
102.5°	133.6	169.4	232.3	357.9	592.2	895.4	1152.4	1273.1	1270.4	1202.2	1112.2
105°	156.0	187.1	241.1	344.1	533.2	804.3	1091.4	1300.5	1400.5	1419.5	1393.5
107.5°	181.2	210.1	257.5	343.1	495.6	723.8	984.6	1221.6	1384.1	1471.7	1507.4
110°	198.0	226.1	271.1	347.2	481.1	678.2	917.3	1146.4	1330.5	1456.6	1526.6



TEST NUMBER: P332083-935

CATALOG NUMBER: S123DIP-S1165D1195U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	215.7	242.9	284.7	355.2	473.2	647.8	858.9	1071.9	1260.1	1401.3	1491.3
115°	242.1	269.1	307.1	368.2	470.2	615.2	788.2	973.4	1147.4	1294.4	1403.5
117.5°	268.3	293.3	330.9	385.3	472.0	596.0	745.6	901.9	1052.1	1184.2	1294.9
120°	285.1	310.1	346.1	398.1	475.2	587.2	723.2	864.3	999.4	1119.4	1220.5
122.5°	300.3	326.9	362.1	410.2	480.8	581.6	704.8	834.7	956.9	1068.2	1162.0
125°	323.1	350.1	385.1	429.1	489.1	574.2	681.2	795.3	904.3	1000.3	1080.4
127.5°	344.3	371.3	405.1	444.8	498.8	570.6	660.5	760.9	858.1	944.7	1017.5
130°	357.1	384.1	417.2	455.1	505.1	568.2	649.2	739.3	829.3	910.3	978.4
132.5°	369.1	395.4	427.6	464.8	510.0	567.4	638.9	719.3	802.1	877.5	942.4
135°	385.1	412.2	443.2	477.2	517.2	566.2	625.3	692.2	763.3	828.3	885.3
137.5°	399.2	424.1	453.9	486.4	522.0	564.0	613.4	667.6	725.8	781.9	831.3
140°	407.2	432.1	461.2	491.2	525.2	563.2	606.2	653.2	704.2	752.3	795.3
142.5°	415.2	438.6	466.7	495.9	527.6	561.6	599.8	639.6	683.5	725.0	762.5
145°	425.2	448.2	474.2	501.2	529.2	559.2	591.2	623.2	656.3	688.3	717.2
147.5°	436.8	456.3	480.2	504.4	529.2	555.4	582.8	609.8	636.0	661.9	682.4
150°	443.2	461.2	484.1	505.1	529.2	552.2	577.2	600.2	623.2	644.2	663.2
152.5°	449.5	466.7	486.6	506.8	526.8	548.2	570.8	591.4	611.2	629.8	645.7
155°	460.1	474.2	491.2	507.2	524.2	541.2	561.2	578.2	594.2	609.2	621.2
157.5°	469.3	480.2	493.8	508.2	520.8	535.0	550.4	564.2	577.6	589.2	598.6
160°	474.2	484.1	496.2	508.2	519.2	530.2	543.2	556.2	567.2	577.2	584.2
162.5°	478.2	486.6	497.0	507.4	516.0	525.4	536.0	546.6	556.0	565.2	571.4
165°	483.2	490.2	498.2	505.1	511.2	518.1	526.2	534.2	540.2	547.2	552.2
167.5°	487.8	492.1	498.0	503.6	506.4	511.0	516.8	523.4	528.0	532.0	535.6
170°	490.2	492.1	497.1	501.2	503.2	506.2	511.2	516.2	519.2	523.1	525.2
172.5°	491.8	493.0	497.1	500.4	500.8	502.1	505.6	509.8	512.0	515.2	516.3
175°	493.2	494.2	496.2	498.2	497.1	497.1	499.2	501.2	502.1	504.2	504.2
177.5°	494.2	494.2	495.0	496.5	495.0	494.2	495.0	495.8	496.5	497.4	497.4
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



TEST NUMBER: P332083-935

CATALOG NUMBER: S123DIP-S1165D1195U935-4F0-1E-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°	15.3	15.6	15.2	14.5	15.2	15.6	15.3	15.6	17.3	15.5	15.3
90°	28.0	29.0	30.0	29.0	30.0	29.0	28.0	29.0	27.0	26.0	25.0
92.5°	52.0	49.0	50.0	48.2	50.0	49.0	52.0	53.8	59.0	66.8	84.2
95°	136.0	127.1	120.0	116.1	120.0	127.1	136.0	155.1	191.1	244.1	360.2
97.5°	396.6	351.5	324.5	315.9	324.5	351.5	396.6	470.4	590.0	719.0	897.7
100°	738.2	665.2	626.2	627.2	626.2	665.2	738.2	839.3	981.4	1098.4	1179.4
102.5°	1033.5	975.8	943.1	920.2	943.1	975.8	1033.5	1112.2	1202.2	1270.4	1273.1
105°	1347.5	1309.5	1277.5	1272.5	1277.5	1309.5	1347.5	1393.5	1419.5	1400.5	1300.5
107.5°	1508.1	1495.3	1484.5	1475.3	1484.5	1495.3	1508.1	1507.4	1471.7	1384.1	1221.6
110°	1554.5	1562.5	1560.6	1558.6	1560.6	1562.5	1554.5	1526.6	1456.6	1330.5	1146.4



TEST NUMBER: P332083-935

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1542.6	1567.4	1574.9	1575.4	1574.9	1567.4	1542.6	1491.3	1401.3	1260.1	1071.9
115°	1478.5	1522.5	1542.6	1547.6	1542.6	1522.5	1478.5	1403.5	1294.4	1147.4	973.4
117.5°	1373.1	1423.5	1452.3	1459.1	1452.3	1423.5	1373.1	1294.9	1184.2	1052.1	901.9
120°	1299.4	1355.5	1379.5	1385.5	1379.5	1355.5	1299.4	1220.5	1119.4	999.4	864.3
122.5°	1232.3	1282.6	1309.1	1316.6	1309.1	1282.6	1232.3	1162.0	1068.2	956.9	834.7
125°	1144.4	1188.4	1213.4	1220.5	1213.4	1188.4	1144.4	1080.4	1000.3	904.3	795.3
127.5°	1074.6	1112.2	1134.8	1141.2	1134.8	1112.2	1074.6	1017.5	944.7	858.1	760.9
130°	1031.4	1067.4	1088.4	1096.4	1088.4	1067.4	1031.4	978.4	910.3	829.3	739.3
132.5°	992.1	1028.1	1046.8	1052.4	1046.8	1028.1	992.1	942.4	877.5	802.1	719.3
135°	934.4	964.3	982.3	989.4	982.3	964.3	934.4	885.3	828.3	763.3	692.2
137.5°	872.5	902.9	918.1	922.7	918.1	902.9	872.5	831.3	781.9	725.8	667.6
140°	833.3	861.3	877.3	876.3	877.3	861.3	833.3	795.3	752.3	704.2	653.2
142.5°	794.9	819.7	834.1	833.1	834.1	819.7	794.9	762.5	725.0	683.5	639.6
145°	742.3	763.3	771.3	773.3	771.3	763.3	742.3	717.2	688.3	656.3	623.2
147.5°	701.5	715.7	723.2	724.0	723.2	715.7	701.5	682.4	661.9	636.0	609.8
150°	678.2	689.2	695.3	695.3	695.3	689.2	678.2	663.2	644.2	623.2	600.2
152.5°	657.5	667.6	671.2	671.2	671.2	667.6	657.5	645.7	629.8	611.2	591.4
155°	630.3	638.3	640.2	641.2	640.2	638.3	630.3	621.2	609.2	594.2	578.2
157.5°	606.4	612.4	614.0	613.8	614.0	612.4	606.4	598.6	589.2	577.6	564.2
160°	591.2	597.2	597.2	596.2	597.2	597.2	591.2	584.2	577.2	567.2	556.2
162.5°	576.0	581.2	581.2	580.2	581.2	581.2	576.0	571.4	565.2	556.0	546.6
165°	556.2	560.2	559.2	559.2	559.2	560.2	556.2	552.2	547.2	540.2	534.2
167.5°	537.4	540.2	539.2	539.2	539.2	540.2	537.4	535.6	532.0	528.0	523.4
170°	526.2	528.2	527.2	527.2	527.2	528.2	526.2	525.2	523.1	519.2	516.2
172.5°	516.6	518.6	516.8	516.0	516.8	518.6	516.6	516.3	515.2	512.0	509.8
175°	504.2	505.1	504.2	503.2	504.2	505.1	504.2	504.2	504.2	502.1	501.2
177.5°	496.5	497.4	495.8	495.8	495.8	497.4	496.5	497.4	497.4	496.5	495.8
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



TEST NUMBER: P332083-935

CATALOG NUMBER: S123DIP-S1165D1195U935-4F0-1E-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°	16.2	16.4	15.2	15.2	14.0	13.9	13.0	13.2	13.1	12.7	13.4
90°	24.0	25.0	22.0	19.0	16.0	13.0	11.0	9.0	6.0	4.0	2.0
92.5°	116.1	153.9	169.3	127.1	84.0	57.9	43.0	34.6	26.8	18.4	12.4
95°	481.1	593.2	528.2	364.1	215.1	130.0	91.0	65.0	48.0	37.0	34.0
97.5°	983.5	919.3	673.0	399.5	231.5	150.2	108.1	82.4	67.6	59.0	58.0
100°	1144.4	947.4	640.2	377.1	229.1	159.0	120.0	96.0	82.1	75.0	74.0
102.5°	1152.4	895.4	592.2	357.9	232.3	169.4	133.6	112.0	98.8	92.6	90.8
105°	1091.4	804.3	533.2	344.1	241.1	187.1	156.0	137.1	125.0	119.1	116.1
107.5°	984.6	723.8	495.6	343.1	257.5	210.1	181.2	163.4	151.6	145.9	142.8
110°	917.3	678.2	481.1	347.2	271.1	226.1	198.0	181.1	170.0	165.1	162.0



TEST NUMBER: P332083-935

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	858.9	647.8	473.2	355.2	284.7	242.9	215.7	198.6	187.7	182.7	179.7
115°	788.2	615.2	470.2	368.2	307.1	269.1	242.1	225.1	215.1	209.1	205.1
117.5°	745.6	596.0	472.0	385.3	330.9	293.3	268.3	249.3	240.0	235.1	230.5
120°	723.2	587.2	475.2	398.1	346.1	310.1	285.1	266.1	256.1	251.1	248.1
122.5°	704.8	581.6	480.8	410.2	362.1	326.9	300.3	282.1	271.3	266.3	263.3
125°	681.2	574.2	489.1	429.1	385.1	350.1	323.1	304.1	293.1	287.1	285.1
127.5°	660.5	570.6	498.8	444.8	405.1	371.3	344.3	323.3	312.1	304.7	301.7
130°	649.2	568.2	505.1	455.1	417.2	384.1	357.1	336.1	324.1	315.1	312.1
132.5°	638.9	567.4	510.0	464.8	427.6	395.4	369.1	348.1	333.7	323.9	320.1
135°	625.3	566.2	517.2	477.2	443.2	412.2	385.1	364.1	349.1	338.1	334.2
137.5°	613.4	564.0	522.0	486.4	453.9	424.1	399.2	378.3	362.3	351.5	347.3
140°	606.2	563.2	525.2	491.2	461.2	432.1	407.2	387.1	371.1	361.1	356.1
142.5°	599.8	561.6	527.6	495.9	466.7	438.6	415.2	395.1	380.7	370.0	365.8
145°	591.2	559.2	529.2	501.2	474.2	448.2	425.2	408.1	393.1	384.1	381.2
147.5°	582.8	555.4	529.2	504.4	480.2	456.3	436.8	420.3	407.3	398.6	396.7
150°	577.2	552.2	529.2	505.1	484.1	461.2	443.2	429.1	416.1	408.1	407.2
152.5°	570.8	548.2	526.8	506.8	486.6	466.7	449.5	437.1	425.8	417.8	417.6
155°	561.2	541.2	524.2	507.2	491.2	474.2	460.1	449.2	439.2	433.2	433.2
157.5°	550.4	535.0	520.8	508.2	493.8	480.2	469.3	459.9	451.2	446.3	445.6
160°	543.2	530.2	519.2	508.2	496.2	484.1	474.2	467.2	459.2	455.1	455.1
162.5°	536.0	525.4	516.0	507.4	497.0	486.6	478.2	472.0	465.5	462.4	462.4
165°	526.2	518.1	511.2	505.1	498.2	490.2	483.2	479.1	474.2	472.2	473.2
167.5°	516.8	511.0	506.4	503.6	498.0	492.1	487.8	485.0	481.1	480.2	481.4
170°	511.2	506.2	503.2	501.2	497.1	492.1	490.2	488.2	485.2	484.1	486.2
172.5°	505.6	502.1	500.8	500.4	497.1	493.0	491.8	490.6	488.4	488.2	489.4
175°	499.2	497.1	497.1	498.2	496.2	494.2	493.2	493.2	491.2	492.1	493.2
177.5°	495.0	494.2	495.0	496.5	495.0	494.2	494.2	494.2	493.4	494.2	495.0
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



TEST NUMBER: P332083-935

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**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°	14.9	15.2	17.5	18.9	21.5	23.8	23.8	23.3	23.4	22.6	22.3
90°	4.0	6.0	9.0	11.0	13.0	16.0	19.0	22.0	25.0	24.0	25.0
92.5°	18.4	26.8	34.6	43.0	57.9	84.0	127.1	169.3	153.9	116.1	84.2
95°	37.0	48.0	65.0	91.0	130.0	215.1	364.1	528.2	593.2	481.1	360.2
97.5°	59.0	67.6	82.4	108.1	150.2	231.5	399.5	673.0	919.3	983.5	897.7
100°	75.0	82.1	96.0	120.0	159.0	229.1	377.1	640.2	947.4	1144.4	1179.4
102.5°	92.6	98.8	112.0	133.6	169.4	232.3	357.9	592.2	895.4	1152.4	1273.1
105°	119.1	125.0	137.1	156.0	187.1	241.1	344.1	533.2	804.3	1091.4	1300.5
107.5°	145.9	151.6	163.4	181.2	210.1	257.5	343.1	495.6	723.8	984.6	1221.6
110°	165.1	170.0	181.1	198.0	226.1	271.1	347.2	481.1	678.2	917.3	1146.4





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	182.7	187.7	198.6	215.7	242.9	284.7	355.2	473.2	647.8	858.9	1071.9
115°	209.1	215.1	225.1	242.1	269.1	307.1	368.2	470.2	615.2	788.2	973.4
117.5°	235.1	240.0	249.3	268.3	293.3	330.9	385.3	472.0	596.0	745.6	901.9
120°	251.1	256.1	266.1	285.1	310.1	346.1	398.1	475.2	587.2	723.2	864.3
122.5°	266.3	271.3	282.1	300.3	326.9	362.1	410.2	480.8	581.6	704.8	834.7
125°	287.1	293.1	304.1	323.1	350.1	385.1	429.1	489.1	574.2	681.2	795.3
127.5°	304.7	312.1	323.3	344.3	371.3	405.1	444.8	498.8	570.6	660.5	760.9
130°	315.1	324.1	336.1	357.1	384.1	417.2	455.1	505.1	568.2	649.2	739.3
132.5°	323.9	333.7	348.1	369.1	395.4	427.6	464.8	510.0	567.4	638.9	719.3
135°	338.1	349.1	364.1	385.1	412.2	443.2	477.2	517.2	566.2	625.3	692.2
137.5°	351.5	362.3	378.3	399.2	424.1	453.9	486.4	522.0	564.0	613.4	667.6
140°	361.1	371.1	387.1	407.2	432.1	461.2	491.2	525.2	563.2	606.2	653.2
142.5°	370.0	380.7	395.1	415.2	438.6	466.7	495.9	527.6	561.6	599.8	639.6
145°	384.1	393.1	408.1	425.2	448.2	474.2	501.2	529.2	559.2	591.2	623.2
147.5°	398.6	407.3	420.3	436.8	456.3	480.2	504.4	529.2	555.4	582.8	609.8
150°	408.1	416.1	429.1	443.2	461.2	484.1	505.1	529.2	552.2	577.2	600.2
152.5°	417.8	425.8	437.1	449.5	466.7	486.6	506.8	526.8	548.2	570.8	591.4
155°	433.2	439.2	449.2	460.1	474.2	491.2	507.2	524.2	541.2	561.2	578.2
157.5°	446.3	451.2	459.9	469.3	480.2	493.8	508.2	520.8	535.0	550.4	564.2
160°	455.1	459.2	467.2	474.2	484.1	496.2	508.2	519.2	530.2	543.2	556.2
162.5°	462.4	465.5	472.0	478.2	486.6	497.0	507.4	516.0	525.4	536.0	546.6
165°	472.2	474.2	479.1	483.2	490.2	498.2	505.1	511.2	518.1	526.2	534.2
167.5°	480.2	481.1	485.0	487.8	492.1	498.0	503.6	506.4	511.0	516.8	523.4
170°	484.1	485.2	488.2	490.2	492.1	497.1	501.2	503.2	506.2	511.2	516.2
172.5°	488.2	488.4	490.6	491.8	493.0	497.1	500.4	500.8	502.1	505.6	509.8
175°	492.1	491.2	493.2	493.2	494.2	496.2	498.2	497.1	497.1	499.2	501.2
177.5°	494.2	493.4	494.2	494.2	494.2	495.0	496.5	495.0	494.2	495.0	495.8
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



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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°	22.0	21.6	21.5	21.9	21.5	21.2	22.0
90°	26.0	27.0	29.0	28.0	29.0	30.0	29.0
92.5°	66.8	59.0	53.8	52.0	49.0	50.0	48.2
95°	244.1	191.1	155.1	136.0	127.1	120.0	116.1
97.5°	719.0	590.0	470.4	396.6	351.5	324.5	315.9
100°	1098.4	981.4	839.3	738.2	665.2	626.2	627.2
102.5°	1270.4	1202.2	1112.2	1033.5	975.8	943.1	920.2
105°	1400.5	1419.5	1393.5	1347.5	1309.5	1277.5	1272.5
107.5°	1384.1	1471.7	1507.4	1508.1	1495.3	1484.5	1475.3
110°	1330.5	1456.6	1526.6	1554.5	1562.5	1560.6	1558.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1260.1	1401.3	1491.3	1542.6	1567.4	1574.9	1575.4
115°	1147.4	1294.4	1403.5	1478.5	1522.5	1542.6	1547.6
117.5°	1052.1	1184.2	1294.9	1373.1	1423.5	1452.3	1459.1
120°	999.4	1119.4	1220.5	1299.4	1355.5	1379.5	1385.5
122.5°	956.9	1068.2	1162.0	1232.3	1282.6	1309.1	1316.6
125°	904.3	1000.3	1080.4	1144.4	1188.4	1213.4	1220.5
127.5°	858.1	944.7	1017.5	1074.6	1112.2	1134.8	1141.2
130°	829.3	910.3	978.4	1031.4	1067.4	1088.4	1096.4
132.5°	802.1	877.5	942.4	992.1	1028.1	1046.8	1052.4
135°	763.3	828.3	885.3	934.4	964.3	982.3	989.4
137.5°	725.8	781.9	831.3	872.5	902.9	918.1	922.7
140°	704.2	752.3	795.3	833.3	861.3	877.3	876.3
142.5°	683.5	725.0	762.5	794.9	819.7	834.1	833.1
145°	656.3	688.3	717.2	742.3	763.3	771.3	773.3
147.5°	636.0	661.9	682.4	701.5	715.7	723.2	724.0
150°	623.2	644.2	663.2	678.2	689.2	695.3	695.3
152.5°	611.2	629.8	645.7	657.5	667.6	671.2	671.2
155°	594.2	609.2	621.2	630.3	638.3	640.2	641.2
157.5°	577.6	589.2	598.6	606.4	612.4	614.0	613.8
160°	567.2	577.2	584.2	591.2	597.2	597.2	596.2
162.5°	556.0	565.2	571.4	576.0	581.2	581.2	580.2
165°	540.2	547.2	552.2	556.2	560.2	559.2	559.2
167.5°	528.0	532.0	535.6	537.4	540.2	539.2	539.2
170°	519.2	523.1	525.2	526.2	528.2	527.2	527.2
172.5°	512.0	515.2	516.3	516.6	518.6	516.8	516.0
175°	502.1	504.2	504.2	504.2	505.1	504.2	503.2
177.5°	496.5	497.4	497.4	496.5	497.4	495.8	495.8
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2

(END OF REPORT)