

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: P332029

Luminaire Tested: **S123DIP-S1000D1025U835-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332029
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-S1000D1025U835-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7952.8 lumens
Efficiency: N/A
Efficacy: 131.5 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

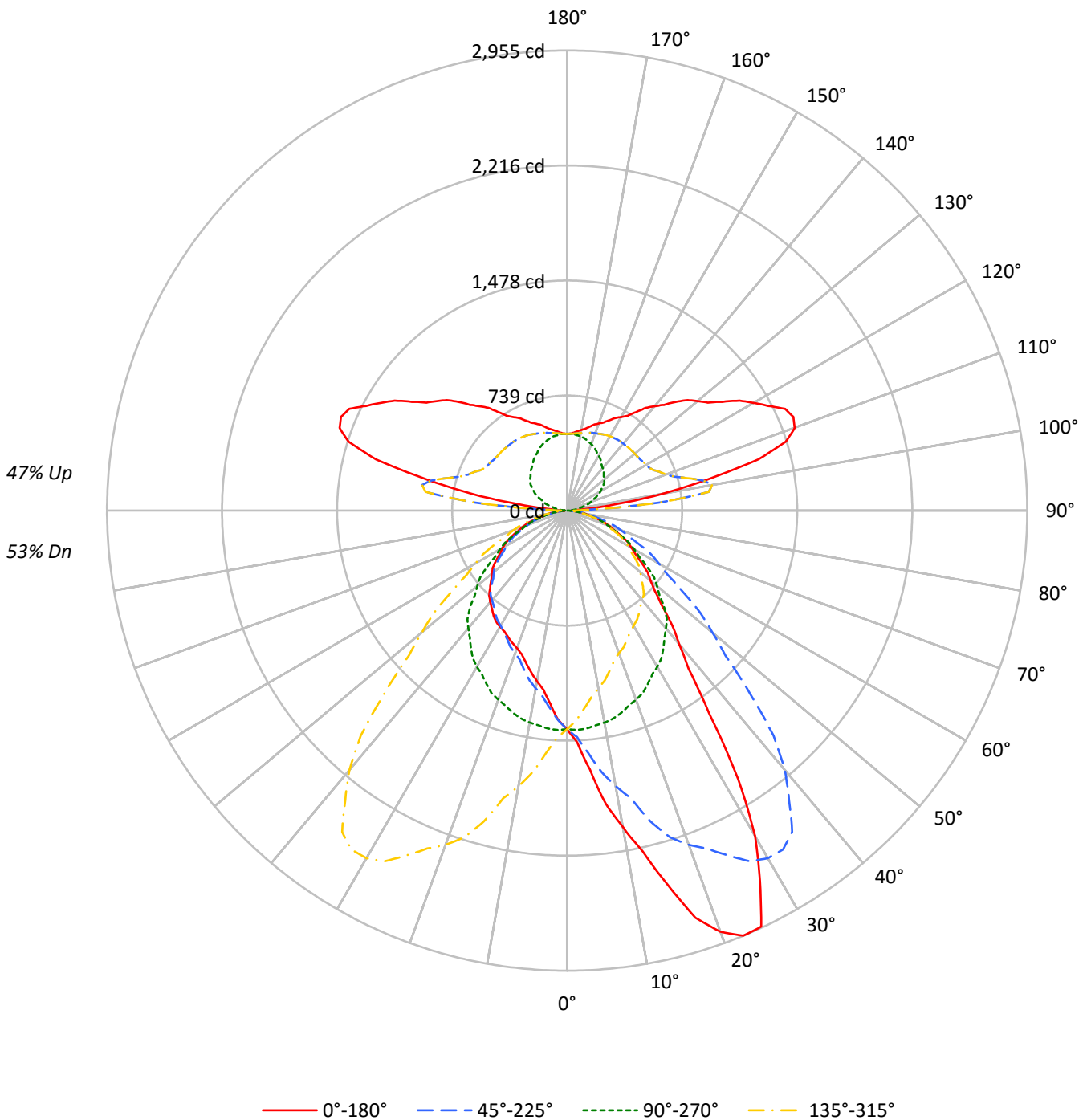
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	85	82	75	73	71	64	62	60	53	52	51	46
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43	39
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	45	40	37	37	34	32	28
5	69	58	50	44	64	54	47	42	47	41	37	40	36	32	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	36	32	28	31	27	25	22
7	59	47	39	34	55	44	37	32	38	33	28	33	29	25	28	25	22	19
8	55	43	35	30	51	40	33	28	35	29	25	30	26	23	26	22	20	17
9	51	39	32	26	47	37	30	25	32	27	23	28	23	20	24	20	18	16
10	48	36	29	24	44	34	27	23	30	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15118	15118	15118	15118
5°	18029	15183	13456	15183
10°	22566	15106	12153	15106
15°	27679	14985	11314	14985
20°	32972	14795	10772	14795
25°	35011	14563	10652	14563
30°	30009	14395	10708	14395
35°	20871	14155	10820	14155
40°	15719	13874	10786	13874
45°	13052	13457	10648	13457
50°	11692	12603	10551	12603
55°	10931	11684	10421	11684
60°	10254	10723	10314	10723
65°	9638	9775	9984	9775
70°	9039	8696	9508	8696
75°	8093	7615	8717	7615
80°	7085	6242	7507	6242
85°	5545	4533	5039	4533



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	1.7
10°-20°	443.6	5.6
20°-30°	744.6	9.4
30°-40°	843.1	10.6
40°-50°	756.1	9.5
50°-60°	610.1	7.7
60°-70°	425.2	5.3
70°-80°	223.5	2.8
80°-90°	58.5	0.7
90°-100°	274.4	3.5
100°-110°	777.0	9.8
110°-120°	764.4	9.6
120°-130°	609.7	7.7
130°-140°	480.7	6.0
140°-150°	358.8	4.5
150°-160°	250.1	3.1
160°-170°	146.9	1.8
170°-180°	47.8	0.6
0°-30°	1326.6	16.7
0°-40°	2169.7	27.3
0°-60°	3535.9	44.5
0°-90°	4243.0	53.4
90°-120°	1815.8	22.8
90°-150°	3265.1	41.1
90°-180°	3710.0	46.7
0°-180°	7952.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1404	1404	1404	1404	1404	
5°	1669	1405	1245	1405	1669	173
15°	2484	1345	1015	1345	2484	717
25°	2948	1226	897	1226	2948	1293
35°	1588	1077	823	1077	1588	1032
45°	857	884	700	884	857	678
55°	582	623	555	623	582	523
65°	378	384	392	384	378	377
75°	195	183	210	183	195	208
85°	45	37	41	37	45	54
90°	29	2	29	2	29	18
95°	116	34	116	34	116	209
105°	1270	116	1270	116	1270	1253
115°	1544	205	1544	205	1544	1500
125°	1218	284	1218	284	1218	1104
135°	987	333	987	333	987	766
145°	772	380	772	380	772	491
155°	640	432	640	432	640	298
165°	558	472	558	472	558	159
175°	502	492	502	492	502	49
180°	493	493	493	493	493	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1490.5	1489.5	1486.7	1488.9	1484.6	1478.6	1478.0	1472.6	1456.8	1455.7	1451.4
5°	1668.6	1663.1	1662.4	1661.8	1652.2	1639.3	1614.8	1612.8	1580.1	1563.8	1544.0
7.5°	1899.1	1902.0	1892.0	1883.3	1854.2	1835.0	1808.7	1775.1	1735.0	1694.3	1667.2
10°	2064.6	2087.1	2059.2	2040.1	2022.4	1989.1	1950.3	1902.0	1853.7	1797.2	1754.3
12.5°	2242.1	2253.1	2247.5	2229.6	2202.1	2151.3	2082.6	2029.4	1984.9	1890.8	1852.8
15°	2483.8	2525.3	2498.8	2437.5	2438.9	2390.6	2300.7	2202.1	2149.7	2067.3	1955.1
17.5°	2741.3	2746.5	2735.2	2684.1	2650.1	2583.7	2500.8	2406.2	2300.1	2200.4	2081.4
20°	2878.5	2874.4	2850.6	2824.0	2765.5	2713.8	2623.3	2517.8	2381.7	2283.7	2153.8
22.5°	2954.7	2947.9	2936.6	2914.4	2865.7	2810.2	2728.9	2613.6	2484.1	2349.1	2198.9
25°	2947.9	2956.7	2958.1	2952.0	2935.0	2901.6	2837.6	2745.8	2616.5	2443.0	2286.5
27.5°	2681.1	2693.7	2730.0	2762.3	2798.3	2835.1	2830.2	2784.6	2688.9	2539.0	2347.7
30°	2414.4	2387.2	2454.5	2539.6	2597.4	2699.5	2756.7	2760.1	2706.3	2577.7	2391.2
32.5°	2044.2	2074.1	2103.9	2208.6	2335.0	2449.6	2563.4	2655.0	2665.5	2579.9	2416.8
35°	1588.3	1625.7	1680.1	1734.6	1870.7	1987.7	2187.8	2362.0	2500.8	2519.2	2419.1
37.5°	1279.9	1298.4	1332.8	1387.4	1476.4	1615.2	1770.0	1990.2	2191.3	2340.9	2347.4
40°	1118.7	1124.2	1163.0	1204.5	1276.6	1390.9	1530.4	1725.0	1965.9	2174.9	2262.0
42.5°	997.9	1009.8	1026.3	1066.2	1123.6	1209.6	1339.3	1500.2	1721.0	1961.4	2131.8
45°	857.4	871.0	881.2	907.8	948.6	1006.4	1097.0	1243.9	1412.0	1660.4	1889.7
47.5°	764.6	765.7	773.3	793.3	821.1	864.5	928.5	1022.9	1177.2	1378.7	1614.1
50°	698.2	709.1	711.8	727.4	749.2	781.2	834.3	914.6	1041.2	1218.1	1434.5
52.5°	651.4	654.6	662.3	673.6	692.6	717.5	763.5	826.4	925.7	1076.5	1275.5
55°	582.5	582.5	590.0	598.8	609.7	632.2	662.8	709.1	784.6	901.7	1066.3
57.5°	518.8	522.2	527.5	530.2	539.5	554.3	579.9	615.0	671.4	761.5	892.4
60°	476.3	482.5	481.8	487.2	495.4	507.0	528.7	557.3	607.7	679.8	790.1
62.5°	439.3	438.9	438.8	445.3	453.5	464.5	478.7	503.4	546.2	610.1	704.0
65°	378.4	377.0	381.8	385.8	388.6	396.7	407.6	429.4	458.0	505.6	578.4
67.5°	324.2	320.2	322.8	324.2	328.8	335.2	345.4	358.9	381.6	419.9	474.7
70°	287.2	283.8	283.1	284.4	288.5	293.3	300.8	313.7	334.8	365.4	405.6
72.5°	249.1	246.7	246.6	249.6	251.5	254.6	259.9	271.8	288.5	311.5	349.0
75°	194.6	194.6	194.6	195.3	197.3	200.1	204.1	210.3	223.2	239.5	264.7
77.5°	145.9	145.8	144.9	144.8	147.8	149.0	150.0	155.7	162.9	173.9	192.3
80°	114.3	110.9	112.3	114.3	115.7	116.4	118.4	119.8	125.9	132.0	144.9
82.5°	84.9	82.1	82.3	85.5	85.7	86.4	88.5	90.4	92.7	98.3	105.2
85°	44.9	44.9	45.6	45.6	46.3	45.6	47.6	48.3	48.3	51.7	55.8
87.5°	22.1	21.2	21.6	21.9	21.6	21.7	22.1	22.4	22.8	23.5	23.4
90°	28.9	29.9	28.9	27.9	28.9	27.0	26.0	25.0	24.0	25.0	22.0
92.5°	48.1	49.9	48.9	51.9	53.7	58.9	66.7	84.0	115.8	153.5	168.9
95°	115.8	119.8	126.8	135.8	154.7	190.7	243.6	359.3	480.1	591.9	527.0
97.5°	315.2	323.8	350.8	395.7	469.3	588.7	717.5	895.8	981.4	917.3	671.6
100°	625.9	624.9	663.8	736.7	837.5	979.2	1096.0	1176.9	1141.9	945.3	638.8
102.5°	918.1	941.1	973.6	1031.3	1109.8	1199.6	1267.7	1270.3	1149.9	893.4	590.9
105°	1269.7	1274.7	1306.6	1344.5	1390.5	1416.4	1397.5	1297.6	1089.0	802.5	532.0
107.5°	1472.1	1481.3	1492.1	1504.9	1504.1	1468.5	1381.1	1219.0	982.4	722.3	494.5
110°	1555.2	1557.2	1559.2	1551.2	1523.2	1453.3	1327.6	1143.9	915.3	676.8	480.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1571.9	1571.5	1563.9	1539.2	1488.1	1398.2	1257.3	1069.6	857.0	646.4	472.1
115°	1544.2	1539.2	1519.2	1475.3	1400.4	1291.6	1144.9	971.2	786.6	613.9	469.1
117.5°	1455.9	1449.2	1420.4	1370.1	1292.0	1181.6	1049.9	900.0	744.0	594.7	470.9
120°	1382.5	1376.5	1352.5	1296.6	1217.8	1117.0	997.2	862.4	721.7	585.9	474.1
122.5°	1313.8	1306.2	1279.9	1229.6	1159.5	1065.9	954.9	832.9	703.3	580.3	479.7
125°	1217.8	1210.8	1185.8	1141.9	1078.0	998.2	902.4	793.6	679.8	573.0	488.1
127.5°	1138.7	1132.3	1109.8	1072.2	1015.3	942.7	856.2	759.2	659.0	569.4	497.7
130°	1094.0	1086.0	1065.1	1029.1	976.2	908.3	827.5	737.7	647.8	567.0	504.1
132.5°	1050.1	1044.5	1025.9	990.0	940.3	875.6	800.3	717.7	637.4	566.2	508.9
135°	987.2	980.2	962.2	932.3	883.4	826.5	761.6	690.7	623.9	565.0	516.1
137.5°	920.7	916.1	901.0	870.6	829.5	780.2	724.3	666.2	612.1	562.8	520.8
140°	874.4	875.4	859.4	831.5	793.6	750.6	702.7	651.8	604.9	562.0	524.0
142.5°	831.3	832.3	817.9	793.2	760.8	723.5	682.0	638.2	598.5	560.4	526.4
145°	771.6	769.6	761.6	740.6	715.7	686.7	654.8	621.9	589.9	558.0	528.0
147.5°	722.5	721.7	714.1	699.9	681.0	660.4	634.6	608.5	581.5	554.2	528.0
150°	693.7	693.7	687.7	676.8	661.8	642.8	621.9	598.9	575.9	551.0	528.0
152.5°	669.8	669.8	666.2	656.0	644.2	628.5	609.9	590.1	569.6	547.0	525.6
155°	639.8	638.8	636.8	628.9	619.9	607.9	592.9	576.9	560.0	540.0	523.0
157.5°	612.5	612.7	611.1	605.1	597.3	587.9	576.3	563.0	549.2	533.8	519.7
160°	594.9	595.9	595.9	589.9	582.9	575.9	566.0	555.0	542.0	529.0	518.1
162.5°	578.9	579.9	579.9	574.8	570.2	564.0	554.8	545.4	534.8	524.2	514.9
165°	558.0	558.0	559.0	555.0	551.0	546.0	539.0	533.0	525.0	517.1	510.1
167.5°	538.0	538.0	539.0	536.2	534.4	530.8	526.8	522.2	515.7	509.9	505.3
170°	526.0	526.0	527.0	525.0	524.0	522.0	518.1	515.1	510.1	505.1	502.1
172.5°	514.9	515.7	517.5	515.5	515.3	514.1	510.9	508.7	504.5	501.1	499.7
175°	502.1	503.1	504.1	503.1	503.1	503.1	501.1	500.1	498.1	496.1	496.1
177.5°	494.7	494.7	496.3	495.5	496.3	496.3	495.5	494.7	493.9	493.1	493.9
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1448.1	1443.7	1439.4	1431.8	1425.2	1416.0	1413.2	1410.0	1400.2	1391.5	1384.9
5°	1536.5	1520.2	1496.4	1474.6	1456.9	1433.1	1419.5	1405.2	1384.8	1366.4	1351.5
7.5°	1629.1	1597.0	1560.0	1519.9	1482.7	1446.7	1417.7	1391.9	1363.3	1336.2	1315.1
10°	1702.6	1656.3	1604.6	1548.8	1501.2	1454.9	1416.1	1382.1	1345.3	1313.3	1286.8
12.5°	1786.4	1717.8	1646.5	1578.7	1522.4	1458.2	1411.2	1367.9	1326.3	1287.8	1258.0
15°	1885.6	1798.5	1714.2	1620.9	1535.2	1454.9	1399.1	1344.7	1296.3	1256.9	1218.8
17.5°	1976.0	1877.3	1766.1	1652.8	1549.3	1454.1	1376.0	1314.4	1254.0	1205.7	1167.7
20°	2027.2	1914.9	1789.0	1671.3	1557.0	1450.8	1365.1	1291.6	1226.2	1175.2	1132.3
22.5°	2071.3	1939.9	1809.7	1683.8	1556.4	1442.1	1344.9	1269.3	1198.5	1148.5	1102.9
25°	2117.0	1959.8	1829.2	1681.5	1539.3	1420.9	1312.0	1226.2	1155.5	1097.0	1050.0
27.5°	2156.2	1958.5	1803.4	1644.6	1512.3	1393.6	1277.4	1185.4	1110.3	1046.7	999.1
30°	2182.3	1961.2	1776.8	1619.6	1486.2	1363.7	1250.7	1158.2	1079.3	1014.6	969.7
32.5°	2198.7	1959.5	1752.3	1584.7	1444.8	1336.5	1221.9	1126.1	1045.0	981.4	938.1
35°	2208.2	1947.6	1710.1	1512.7	1378.0	1272.5	1176.6	1077.2	992.2	933.0	884.0
37.5°	2189.1	1922.4	1661.1	1443.3	1295.8	1191.9	1111.2	1026.6	945.2	880.0	837.8
40°	2159.2	1906.1	1623.0	1394.3	1239.2	1139.1	1070.4	987.4	907.1	845.2	805.7
42.5°	2102.0	1872.8	1581.1	1339.9	1180.4	1080.3	1017.1	947.7	871.7	813.6	774.1
45°	1962.5	1800.6	1518.2	1258.2	1093.5	990.1	934.3	884.0	815.2	758.7	724.7
47.5°	1769.0	1691.8	1427.3	1172.1	1002.9	903.4	845.4	804.9	754.7	709.1	676.4
50°	1634.5	1602.6	1365.7	1113.3	942.5	845.2	789.4	752.6	716.6	671.0	641.0
52.5°	1479.4	1499.1	1293.9	1052.3	881.0	785.3	732.8	703.6	670.8	633.4	607.3
55°	1261.0	1332.4	1169.8	950.0	789.4	698.2	648.5	622.6	603.6	575.7	553.2
57.5°	1056.4	1147.3	1035.6	844.5	699.4	620.7	573.1	544.9	532.7	518.1	500.4
60°	935.0	1024.8	939.8	773.7	639.0	564.1	521.9	498.1	485.9	475.7	460.7
62.5°	826.7	917.6	846.1	701.9	579.6	510.2	473.5	450.2	440.7	435.4	422.6
65°	677.8	756.0	708.4	590.0	494.7	433.5	400.1	383.8	375.0	372.9	364.7
67.5°	551.6	611.2	576.5	489.4	414.4	361.5	333.2	319.3	312.5	311.8	305.7
70°	468.9	524.7	498.1	419.2	354.5	313.0	288.5	276.3	272.2	271.5	268.1
72.5°	404.6	443.5	422.4	356.6	306.6	268.9	251.0	238.2	233.5	234.5	232.2
75°	299.4	328.7	316.4	270.8	230.7	206.2	191.2	183.1	179.0	181.0	178.3
77.5°	215.4	234.0	222.9	191.4	166.6	148.9	137.9	132.8	129.2	129.0	127.8
80°	162.6	173.5	167.4	148.3	127.9	113.0	104.1	100.7	98.7	98.0	97.3
82.5°	115.8	125.1	117.9	104.8	90.9	81.9	76.9	72.4	70.9	71.3	70.6
85°	58.5	61.9	59.2	51.0	45.6	41.5	38.8	36.7	35.4	36.1	34.7
87.5°	23.9	23.9	21.6	19.1	17.6	15.4	15.0	13.5	12.8	13.2	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°	126.8	83.8	57.7	42.9	34.5	26.8	18.4	12.4	18.4	26.8	34.5
95°	363.3	214.6	129.8	90.8	64.9	47.9	36.9	33.9	36.9	47.9	64.9
97.5°	398.7	231.0	149.9	107.8	82.2	67.5	58.9	57.9	58.9	67.5	82.2
100°	376.3	228.6	158.7	119.8	95.8	81.9	74.9	73.9	74.9	81.9	95.8
102.5°	357.1	231.8	169.1	133.4	111.8	98.6	92.4	90.6	92.4	98.6	111.8
105°	343.4	240.6	186.7	155.7	136.8	124.8	118.8	115.8	118.8	124.8	136.8
107.5°	342.4	256.9	209.6	180.9	163.1	151.3	145.5	142.5	145.5	151.3	163.1
110°	346.4	270.5	225.6	197.6	180.7	169.7	164.7	161.7	164.7	169.7	180.7



TEST NUMBER: P332029

CATALOG NUMBER: S123DIP-S1000D1025U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	354.4	284.1	242.4	215.2	198.2	187.3	182.3	179.3	182.3	187.3	198.2
115°	367.3	306.4	268.5	241.6	224.6	214.6	208.6	204.6	208.6	214.6	224.6
117.5°	384.5	330.2	292.7	267.7	248.7	239.6	234.6	230.0	234.6	239.6	248.7
120°	397.3	345.4	309.4	284.5	265.5	255.5	250.5	247.5	250.5	255.5	265.5
122.5°	409.3	361.3	326.2	299.7	281.5	270.7	265.7	262.7	265.7	270.7	281.5
125°	428.2	384.3	349.4	322.4	303.4	292.5	286.5	284.5	286.5	292.5	303.4
127.5°	443.8	404.3	370.5	343.6	322.6	311.4	304.0	301.1	304.0	311.4	322.6
130°	454.2	416.2	383.3	356.3	335.4	323.4	314.4	311.4	314.4	323.4	335.4
132.5°	463.8	426.6	394.5	368.3	347.4	333.0	323.2	319.4	323.2	333.0	347.4
135°	476.1	442.2	411.2	384.3	363.3	348.4	337.4	333.4	337.4	348.4	363.3
137.5°	485.3	453.0	423.2	398.3	377.5	361.5	350.8	346.6	350.8	361.5	377.5
140°	490.1	460.2	431.2	406.3	386.3	370.3	360.3	355.4	360.3	370.3	386.3
142.5°	494.9	465.8	437.6	414.2	394.3	379.9	369.1	364.9	369.1	379.9	394.3
145°	500.1	473.1	447.2	424.2	407.3	392.3	383.3	380.3	383.3	392.3	407.3
147.5°	503.3	479.1	455.4	435.8	419.4	406.5	397.7	395.9	397.7	406.5	419.4
150°	504.1	483.1	460.2	442.2	428.2	415.2	407.3	406.3	407.3	415.2	428.2
152.5°	505.7	485.5	465.8	448.6	436.2	424.8	416.8	416.6	416.8	424.8	436.2
155°	506.1	490.1	473.1	459.2	448.2	438.2	432.2	432.2	432.2	438.2	448.2
157.5°	507.1	492.7	479.1	468.3	459.0	450.2	445.4	444.6	445.4	450.2	459.0
160°	507.1	495.1	483.1	473.1	466.1	458.2	454.2	454.2	454.2	458.2	466.1
162.5°	506.3	495.9	485.5	477.1	470.9	464.6	461.4	461.4	461.4	464.6	470.9
165°	504.1	497.1	489.1	482.1	478.1	473.1	471.1	472.1	471.1	473.1	478.1
167.5°	502.5	496.9	491.1	486.7	483.9	480.1	479.1	480.3	479.1	480.1	483.9
170°	500.1	496.1	491.1	489.1	487.1	484.1	483.1	485.1	483.1	484.1	487.1
172.5°	499.3	496.1	491.9	490.7	489.5	487.3	487.1	488.3	487.1	487.3	489.5
175°	497.1	495.1	493.1	492.1	492.1	490.1	491.1	492.1	491.1	490.1	492.1
177.5°	495.5	493.9	493.1	493.1	493.1	492.3	493.1	493.9	493.1	492.3	493.1
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1



TEST NUMBER: P332029

CATALOG NUMBER: S123DIP-S1000D1025U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1381.1	1377.3	1371.9	1363.7	1357.2	1346.8	1346.8	1348.5	1348.5	1347.9	1346.8
5°	1339.2	1329.0	1316.8	1302.5	1287.5	1272.5	1269.8	1264.4	1260.3	1257.5	1254.1
7.5°	1295.0	1276.9	1259.0	1239.0	1220.8	1205.7	1195.2	1186.5	1180.9	1174.9	1170.6
10°	1265.0	1242.6	1221.5	1200.4	1177.2	1158.9	1147.3	1139.1	1133.0	1127.6	1124.9
12.5°	1229.6	1203.9	1180.7	1160.6	1135.3	1116.4	1105.4	1101.6	1094.4	1082.9	1076.9
15°	1177.9	1154.1	1126.2	1095.6	1083.3	1060.2	1047.3	1041.2	1037.1	1028.2	1025.5
17.5°	1133.7	1102.5	1071.2	1048.4	1025.6	1006.9	999.6	992.0	986.6	979.4	977.2
20°	1098.3	1070.4	1041.8	1017.3	993.5	973.1	967.0	961.5	956.1	952.7	950.0
22.5°	1062.4	1034.5	1010.8	987.9	962.5	949.1	942.5	936.5	932.7	930.4	927.6
25°	1011.9	987.4	960.9	940.4	920.0	911.2	907.1	903.7	901.0	897.6	896.9
27.5°	966.7	940.0	918.5	899.5	884.8	877.4	873.5	871.8	872.4	873.6	874.4
30°	933.0	908.5	890.8	874.4	860.8	854.0	853.3	853.3	856.1	856.7	858.1
32.5°	901.9	881.8	864.1	848.3	838.0	833.3	835.9	835.9	838.1	839.9	842.3
35°	856.7	839.0	825.4	811.8	803.0	805.0	806.4	807.7	811.1	815.2	818.0
37.5°	813.6	798.2	784.1	773.4	769.4	773.0	776.3	779.2	783.1	786.2	789.0
40°	782.6	771.0	757.4	747.9	749.2	751.3	754.0	757.4	760.8	762.8	765.6
42.5°	753.7	741.6	731.3	723.4	725.3	727.9	729.5	731.3	735.2	738.9	740.5
45°	709.8	700.2	690.7	685.9	687.3	688.7	690.0	692.1	695.5	698.2	698.9
47.5°	660.3	653.7	647.3	642.7	644.8	644.3	646.1	650.4	651.5	653.1	656.9
50°	628.8	622.6	615.2	613.8	613.8	613.8	614.5	619.9	619.9	622.6	625.4
52.5°	593.9	590.0	585.2	582.8	581.7	581.7	584.5	587.3	588.4	592.2	594.9
55°	542.4	538.3	534.2	532.1	530.8	532.1	537.6	538.9	542.4	544.4	546.4
57.5°	488.6	485.5	482.2	481.1	480.8	482.6	485.6	489.7	490.5	496.8	499.9
60°	453.2	448.4	445.7	445.7	444.4	450.5	449.1	455.9	457.3	461.4	466.1
62.5°	416.7	410.3	409.2	409.2	411.2	412.9	414.8	417.8	421.4	426.5	430.2
65°	357.9	354.5	359.3	358.6	357.3	361.3	361.3	364.7	368.8	373.6	381.1
67.5°	302.3	300.5	300.9	300.9	303.0	305.3	307.2	310.2	315.1	320.1	325.0
70°	264.7	266.8	263.4	266.1	268.1	268.8	270.2	274.2	279.7	283.1	288.5
72.5°	228.2	228.1	228.5	229.6	231.6	232.9	234.2	238.9	244.8	247.7	252.1
75°	175.6	174.9	176.9	176.9	180.3	181.7	183.1	185.1	190.5	194.6	198.0
77.5°	128.2	129.0	128.6	130.9	130.0	130.2	134.5	136.5	137.1	145.1	146.9
80°	96.6	98.0	98.7	99.4	100.0	98.7	103.4	105.5	105.5	110.2	113.6
82.5°	69.4	70.2	72.0	72.7	72.8	74.2	74.6	76.1	77.7	79.8	84.2
85°	34.7	36.7	37.4	36.7	37.4	36.1	38.1	38.8	39.5	39.5	39.5
87.5°	13.1	14.0	14.1	15.2	15.3	16.4	16.2	15.3	15.5	17.4	15.6
90°	11.0	13.0	16.0	19.0	22.0	25.0	24.0	25.0	26.0	27.0	28.9
92.5°	42.9	57.7	83.8	126.8	168.9	153.5	115.8	84.0	66.7	58.9	53.7
95°	90.8	129.8	214.6	363.3	527.0	591.9	480.1	359.3	243.6	190.7	154.7
97.5°	107.8	149.9	231.0	398.7	671.6	917.3	981.4	895.8	717.5	588.7	469.3
100°	119.8	158.7	228.6	376.3	638.8	945.3	1141.9	1176.9	1096.0	979.2	837.5
102.5°	133.4	169.1	231.8	357.1	590.9	893.4	1149.9	1270.3	1267.7	1199.6	1109.8
105°	155.7	186.7	240.6	343.4	532.0	802.5	1089.0	1297.6	1397.5	1416.4	1390.5
107.5°	180.9	209.6	256.9	342.4	494.5	722.3	982.4	1219.0	1381.1	1468.5	1504.1
110°	197.6	225.6	270.5	346.4	480.1	676.8	915.3	1143.9	1327.6	1453.3	1523.2



TEST NUMBER: P332029

CATALOG NUMBER: S123DIP-S1000D1025U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	215.2	242.4	284.1	354.4	472.1	646.4	857.0	1069.6	1257.3	1398.2	1488.1
115°	241.6	268.5	306.4	367.3	469.1	613.9	786.6	971.2	1144.9	1291.6	1400.4
117.5°	267.7	292.7	330.2	384.5	470.9	594.7	744.0	900.0	1049.9	1181.6	1292.0
120°	284.5	309.4	345.4	397.3	474.1	585.9	721.7	862.4	997.2	1117.0	1217.8
122.5°	299.7	326.2	361.3	409.3	479.7	580.3	703.3	832.9	954.9	1065.9	1159.5
125°	322.4	349.4	384.3	428.2	488.1	573.0	679.8	793.6	902.4	998.2	1078.0
127.5°	343.6	370.5	404.3	443.8	497.7	569.4	659.0	759.2	856.2	942.7	1015.3
130°	356.3	383.3	416.2	454.2	504.1	567.0	647.8	737.7	827.5	908.3	976.2
132.5°	368.3	394.5	426.6	463.8	508.9	566.2	637.4	717.7	800.3	875.6	940.3
135°	384.3	411.2	442.2	476.1	516.1	565.0	623.9	690.7	761.6	826.5	883.4
137.5°	398.3	423.2	453.0	485.3	520.8	562.8	612.1	666.2	724.3	780.2	829.5
140°	406.3	431.2	460.2	490.1	524.0	562.0	604.9	651.8	702.7	750.6	793.6
142.5°	414.2	437.6	465.8	494.9	526.4	560.4	598.5	638.2	682.0	723.5	760.8
145°	424.2	447.2	473.1	500.1	528.0	558.0	589.9	621.9	654.8	686.7	715.7
147.5°	435.8	455.4	479.1	503.3	528.0	554.2	581.5	608.5	634.6	660.4	681.0
150°	442.2	460.2	483.1	504.1	528.0	551.0	575.9	598.9	621.9	642.8	661.8
152.5°	448.6	465.8	485.5	505.7	525.6	547.0	569.6	590.1	609.9	628.5	644.2
155°	459.2	473.1	490.1	506.1	523.0	540.0	560.0	576.9	592.9	607.9	619.9
157.5°	468.3	479.1	492.7	507.1	519.7	533.8	549.2	563.0	576.3	587.9	597.3
160°	473.1	483.1	495.1	507.1	518.1	529.0	542.0	555.0	566.0	575.9	582.9
162.5°	477.1	485.5	495.9	506.3	514.9	524.2	534.8	545.4	554.8	564.0	570.2
165°	482.1	489.1	497.1	504.1	510.1	517.1	525.0	533.0	539.0	546.0	551.0
167.5°	486.7	491.1	496.9	502.5	505.3	509.9	515.7	522.2	526.8	530.8	534.4
170°	489.1	491.1	496.1	500.1	502.1	505.1	510.1	515.1	518.1	522.0	524.0
172.5°	490.7	491.9	496.1	499.3	499.7	501.1	504.5	508.7	510.9	514.1	515.3
175°	492.1	493.1	495.1	497.1	496.1	496.1	498.1	500.1	501.1	503.1	503.1
177.5°	493.1	493.1	493.9	495.5	493.9	493.1	493.9	494.7	495.5	496.3	496.3
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1



TEST NUMBER: P332029

CATALOG NUMBER: S123DIP-S1000D1025U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1343.0	1342.5	1346.3	1343.6	1346.3	1342.5	1343.0	1346.8	1347.9	1348.5	1348.5
5°	1250.1	1252.1	1245.3	1245.3	1245.3	1252.1	1250.1	1254.1	1257.5	1260.3	1264.4
7.5°	1167.3	1164.3	1164.6	1160.9	1164.6	1164.3	1167.3	1170.6	1174.9	1180.9	1186.5
10°	1116.7	1112.6	1111.2	1111.9	1111.2	1112.6	1116.7	1124.9	1127.6	1133.0	1139.1
12.5°	1074.8	1074.0	1065.0	1065.1	1065.0	1074.0	1074.8	1076.9	1082.9	1094.4	1101.6
15°	1025.5	1012.6	1011.2	1015.3	1011.2	1012.6	1025.5	1025.5	1028.2	1037.1	1041.2
17.5°	976.1	969.3	969.7	967.7	969.7	969.3	976.1	977.2	979.4	986.6	992.0
20°	950.0	945.9	945.2	940.4	945.2	945.9	950.0	950.0	952.7	956.1	961.5
22.5°	926.0	924.7	925.1	919.8	925.1	924.7	926.0	927.6	930.4	932.7	936.5
25°	896.2	899.6	896.9	896.9	896.9	899.6	896.2	896.9	897.6	901.0	903.7
27.5°	876.1	875.9	874.6	874.6	874.6	875.9	876.1	874.4	873.6	872.4	871.8
30°	860.8	860.1	861.5	861.5	861.5	860.1	860.8	858.1	856.7	856.1	853.3
32.5°	845.6	846.5	846.8	847.3	846.8	846.5	845.6	842.3	839.9	838.1	835.9
35°	822.0	822.7	824.8	823.4	824.8	822.7	822.0	818.0	815.2	811.1	807.7
37.5°	790.2	793.3	792.6	793.7	792.6	793.3	790.2	789.0	786.2	783.1	779.2
40°	766.2	768.3	767.6	767.6	767.6	768.3	766.2	765.6	762.8	760.8	757.4
42.5°	741.7	743.2	741.5	740.4	741.5	743.2	741.7	740.5	738.9	735.2	731.3
45°	701.6	700.2	702.3	699.5	702.3	700.2	701.6	698.9	698.2	695.5	692.1
47.5°	656.7	658.0	658.6	660.6	658.6	658.0	656.7	656.9	653.1	651.5	650.4
50°	626.7	630.8	630.8	630.1	630.8	630.8	626.7	625.4	622.6	619.9	619.9
52.5°	597.3	599.2	602.0	601.8	602.0	599.2	597.3	594.9	592.2	588.4	587.3
55°	551.9	553.2	554.6	555.3	554.6	553.2	551.9	546.4	544.4	542.4	538.9
57.5°	504.8	504.2	507.5	508.5	507.5	504.2	504.8	499.9	496.8	490.5	489.7
60°	471.6	471.6	477.0	479.1	477.0	471.6	471.6	466.1	461.4	457.3	455.9
62.5°	436.2	438.4	443.8	441.0	443.8	438.4	436.2	430.2	426.5	421.4	417.8
65°	384.5	389.9	389.2	392.0	389.2	389.9	384.5	381.1	373.6	368.8	364.7
67.5°	330.4	333.8	338.7	339.2	338.7	333.8	330.4	325.0	320.1	315.1	310.2
70°	294.0	297.4	300.1	302.1	300.1	297.4	294.0	288.5	283.1	279.7	274.2
72.5°	258.6	260.4	266.9	264.0	266.9	260.4	258.6	252.1	247.7	244.8	238.9
75°	202.8	207.5	211.6	209.6	211.6	207.5	202.8	198.0	194.6	190.5	185.1
77.5°	150.0	154.7	156.6	154.9	156.6	154.7	150.0	146.9	145.1	137.1	136.5
80°	118.4	117.7	121.8	121.1	121.8	117.7	118.4	113.6	110.2	105.5	105.5
82.5°	86.8	86.2	88.1	88.5	88.1	86.2	86.8	84.2	79.8	77.7	76.1
85°	42.2	44.2	41.5	40.8	41.5	44.2	42.2	39.5	39.5	39.5	38.8
87.5°	15.4	15.6	15.2	14.5	15.2	15.6	15.4	15.6	17.4	15.5	15.3
90°	27.9	28.9	29.9	28.9	29.9	28.9	27.9	28.9	27.0	26.0	25.0
92.5°	51.9	48.9	49.9	48.1	49.9	48.9	51.9	53.7	58.9	66.7	84.0
95°	135.8	126.8	119.8	115.8	119.8	126.8	135.8	154.7	190.7	243.6	359.3
97.5°	395.7	350.8	323.8	315.2	323.8	350.8	395.7	469.3	588.7	717.5	895.8
100°	736.7	663.8	624.9	625.9	624.9	663.8	736.7	837.5	979.2	1096.0	1176.9
102.5°	1031.3	973.6	941.1	918.1	941.1	973.6	1031.3	1109.8	1199.6	1267.7	1270.3
105°	1344.5	1306.6	1274.7	1269.7	1274.7	1306.6	1344.5	1390.5	1416.4	1397.5	1297.6
107.5°	1504.9	1492.1	1481.3	1472.1	1481.3	1492.1	1504.9	1504.1	1468.5	1381.1	1219.0
110°	1551.2	1559.2	1557.2	1555.2	1557.2	1559.2	1551.2	1523.2	1453.3	1327.6	1143.9



TEST NUMBER: P332029

CATALOG NUMBER: S123DIP-S1000D1025U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1539.2	1563.9	1571.5	1571.9	1571.5	1563.9	1539.2	1488.1	1398.2	1257.3	1069.6
115°	1475.3	1519.2	1539.2	1544.2	1539.2	1519.2	1475.3	1400.4	1291.6	1144.9	971.2
117.5°	1370.1	1420.4	1449.2	1455.9	1449.2	1420.4	1370.1	1292.0	1181.6	1049.9	900.0
120°	1296.6	1352.5	1376.5	1382.5	1376.5	1352.5	1296.6	1217.8	1117.0	997.2	862.4
122.5°	1229.6	1279.9	1306.2	1313.8	1306.2	1279.9	1229.6	1159.5	1065.9	954.9	832.9
125°	1141.9	1185.8	1210.8	1217.8	1210.8	1185.8	1141.9	1078.0	998.2	902.4	793.6
127.5°	1072.2	1109.8	1132.3	1138.7	1132.3	1109.8	1072.2	1015.3	942.7	856.2	759.2
130°	1029.1	1065.1	1086.0	1094.0	1086.0	1065.1	1029.1	976.2	908.3	827.5	737.7
132.5°	990.0	1025.9	1044.5	1050.1	1044.5	1025.9	990.0	940.3	875.6	800.3	717.7
135°	932.3	962.2	980.2	987.2	980.2	962.2	932.3	883.4	826.5	761.6	690.7
137.5°	870.6	901.0	916.1	920.7	916.1	901.0	870.6	829.5	780.2	724.3	666.2
140°	831.5	859.4	875.4	874.4	875.4	859.4	831.5	793.6	750.6	702.7	651.8
142.5°	793.2	817.9	832.3	831.3	832.3	817.9	793.2	760.8	723.5	682.0	638.2
145°	740.6	761.6	769.6	771.6	769.6	761.6	740.6	715.7	686.7	654.8	621.9
147.5°	699.9	714.1	721.7	722.5	721.7	714.1	699.9	681.0	660.4	634.6	608.5
150°	676.8	687.7	693.7	693.7	693.7	687.7	676.8	661.8	642.8	621.9	598.9
152.5°	656.0	666.2	669.8	669.8	669.8	666.2	656.0	644.2	628.5	609.9	590.1
155°	628.9	636.8	638.8	639.8	638.8	636.8	628.9	619.9	607.9	592.9	576.9
157.5°	605.1	611.1	612.7	612.5	612.7	611.1	605.1	597.3	587.9	576.3	563.0
160°	589.9	595.9	595.9	594.9	595.9	595.9	589.9	582.9	575.9	566.0	555.0
162.5°	574.8	579.9	579.9	578.9	579.9	579.9	574.8	570.2	564.0	554.8	545.4
165°	555.0	559.0	558.0	558.0	558.0	559.0	555.0	551.0	546.0	539.0	533.0
167.5°	536.2	539.0	538.0	538.0	538.0	539.0	536.2	534.4	530.8	526.8	522.2
170°	525.0	527.0	526.0	526.0	526.0	527.0	525.0	524.0	522.0	518.1	515.1
172.5°	515.5	517.5	515.7	514.9	515.7	517.5	515.5	515.3	514.1	510.9	508.7
175°	503.1	504.1	503.1	502.1	503.1	504.1	503.1	503.1	503.1	501.1	500.1
177.5°	495.5	496.3	494.7	494.7	494.7	496.3	495.5	496.3	496.3	495.5	494.7
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1



TEST NUMBER: P332029

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1346.8	1346.8	1357.2	1363.7	1371.9	1377.3	1381.1	1384.9	1391.5	1400.2	1410.0
5°	1269.8	1272.5	1287.5	1302.5	1316.8	1329.0	1339.2	1351.5	1366.4	1384.8	1405.2
7.5°	1195.2	1205.7	1220.8	1239.0	1259.0	1276.9	1295.0	1315.1	1336.2	1363.3	1391.9
10°	1147.3	1158.9	1177.2	1200.4	1221.5	1242.6	1265.0	1286.8	1313.3	1345.3	1382.1
12.5°	1105.4	1116.4	1135.3	1160.6	1180.7	1203.9	1229.6	1258.0	1287.8	1326.3	1367.9
15°	1047.3	1060.2	1083.3	1095.6	1126.2	1154.1	1177.9	1218.8	1256.9	1296.3	1344.7
17.5°	999.6	1006.9	1025.6	1048.4	1071.2	1102.5	1133.7	1167.7	1205.7	1254.0	1314.4
20°	967.0	973.1	993.5	1017.3	1041.8	1070.4	1098.3	1132.3	1175.2	1226.2	1291.6
22.5°	942.5	949.1	962.5	987.9	1010.8	1034.5	1062.4	1102.9	1148.5	1198.5	1269.3
25°	907.1	911.2	920.0	940.4	960.9	987.4	1011.9	1050.0	1097.0	1155.5	1226.2
27.5°	873.5	877.4	884.8	899.5	918.5	940.0	966.7	999.1	1046.7	1110.3	1185.4
30°	853.3	854.0	860.8	874.4	890.8	908.5	933.0	969.7	1014.6	1079.3	1158.2
32.5°	835.9	833.3	838.0	848.3	864.1	881.8	901.9	938.1	981.4	1045.0	1126.1
35°	806.4	805.0	803.0	811.8	825.4	839.0	856.7	884.0	933.0	992.2	1077.2
37.5°	776.3	773.0	769.4	773.4	784.1	798.2	813.6	837.8	880.0	945.2	1026.6
40°	754.0	751.3	749.2	747.9	757.4	771.0	782.6	805.7	845.2	907.1	987.4
42.5°	729.5	727.9	725.3	723.4	731.3	741.6	753.7	774.1	813.6	871.7	947.7
45°	690.0	688.7	687.3	685.9	690.7	700.2	709.8	724.7	758.7	815.2	884.0
47.5°	646.1	644.3	644.8	642.7	647.3	653.7	660.3	676.4	709.1	754.7	804.9
50°	614.5	613.8	613.8	613.8	615.2	622.6	628.8	641.0	671.0	716.6	752.6
52.5°	584.5	581.7	581.7	582.8	585.2	590.0	593.9	607.3	633.4	670.8	703.6
55°	537.6	532.1	530.8	532.1	534.2	538.3	542.4	553.2	575.7	603.6	622.6
57.5°	485.6	482.6	480.8	481.1	482.2	485.5	488.6	500.4	518.1	532.7	544.9
60°	449.1	450.5	444.4	445.7	445.7	448.4	453.2	460.7	475.7	485.9	498.1
62.5°	414.8	412.9	411.2	409.2	409.2	410.3	416.7	422.6	435.4	440.7	450.2
65°	361.3	361.3	357.3	358.6	359.3	354.5	357.9	364.7	372.9	375.0	383.8
67.5°	307.2	305.3	303.0	300.9	300.9	300.5	302.3	305.7	311.8	312.5	319.3
70°	270.2	268.8	268.1	266.1	263.4	266.8	264.7	268.1	271.5	272.2	276.3
72.5°	234.2	232.9	231.6	229.6	228.5	228.1	228.2	232.2	234.5	233.5	238.2
75°	183.1	181.7	180.3	176.9	176.9	174.9	175.6	178.3	181.0	179.0	183.1
77.5°	134.5	130.2	130.0	130.9	128.6	129.0	128.2	127.8	129.0	129.2	132.8
80°	103.4	98.7	100.0	99.4	98.7	98.0	96.6	97.3	98.0	98.7	100.7
82.5°	74.6	74.2	72.8	72.7	72.0	70.2	69.4	70.6	71.3	70.9	72.4
85°	38.1	36.1	37.4	36.7	37.4	36.7	34.7	34.7	36.1	35.4	36.7
87.5°	16.2	16.4	15.3	15.2	14.1	14.0	13.1	13.2	13.2	12.8	13.5
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°	115.8	153.5	168.9	126.8	83.8	57.7	42.9	34.5	26.8	18.4	12.4
95°	480.1	591.9	527.0	363.3	214.6	129.8	90.8	64.9	47.9	36.9	33.9
97.5°	981.4	917.3	671.6	398.7	231.0	149.9	107.8	82.2	67.5	58.9	57.9
100°	1141.9	945.3	638.8	376.3	228.6	158.7	119.8	95.8	81.9	74.9	73.9
102.5°	1149.9	893.4	590.9	357.1	231.8	169.1	133.4	111.8	98.6	92.4	90.6
105°	1089.0	802.5	532.0	343.4	240.6	186.7	155.7	136.8	124.8	118.8	115.8
107.5°	982.4	722.3	494.5	342.4	256.9	209.6	180.9	163.1	151.3	145.5	142.5
110°	915.3	676.8	480.1	346.4	270.5	225.6	197.6	180.7	169.7	164.7	161.7



TEST NUMBER: P332029

CATALOG NUMBER: S123DIP-S1000D1025U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	857.0	646.4	472.1	354.4	284.1	242.4	215.2	198.2	187.3	182.3	179.3
115°	786.6	613.9	469.1	367.3	306.4	268.5	241.6	224.6	214.6	208.6	204.6
117.5°	744.0	594.7	470.9	384.5	330.2	292.7	267.7	248.7	239.6	234.6	230.0
120°	721.7	585.9	474.1	397.3	345.4	309.4	284.5	265.5	255.5	250.5	247.5
122.5°	703.3	580.3	479.7	409.3	361.3	326.2	299.7	281.5	270.7	265.7	262.7
125°	679.8	573.0	488.1	428.2	384.3	349.4	322.4	303.4	292.5	286.5	284.5
127.5°	659.0	569.4	497.7	443.8	404.3	370.5	343.6	322.6	311.4	304.0	301.1
130°	647.8	567.0	504.1	454.2	416.2	383.3	356.3	335.4	323.4	314.4	311.4
132.5°	637.4	566.2	508.9	463.8	426.6	394.5	368.3	347.4	333.0	323.2	319.4
135°	623.9	565.0	516.1	476.1	442.2	411.2	384.3	363.3	348.4	337.4	333.4
137.5°	612.1	562.8	520.8	485.3	453.0	423.2	398.3	377.5	361.5	350.8	346.6
140°	604.9	562.0	524.0	490.1	460.2	431.2	406.3	386.3	370.3	360.3	355.4
142.5°	598.5	560.4	526.4	494.9	465.8	437.6	414.2	394.3	379.9	369.1	364.9
145°	589.9	558.0	528.0	500.1	473.1	447.2	424.2	407.3	392.3	383.3	380.3
147.5°	581.5	554.2	528.0	503.3	479.1	455.4	435.8	419.4	406.5	397.7	395.9
150°	575.9	551.0	528.0	504.1	483.1	460.2	442.2	428.2	415.2	407.3	406.3
152.5°	569.6	547.0	525.6	505.7	485.5	465.8	448.6	436.2	424.8	416.8	416.6
155°	560.0	540.0	523.0	506.1	490.1	473.1	459.2	448.2	438.2	432.2	432.2
157.5°	549.2	533.8	519.7	507.1	492.7	479.1	468.3	459.0	450.2	445.4	444.6
160°	542.0	529.0	518.1	507.1	495.1	483.1	473.1	466.1	458.2	454.2	454.2
162.5°	534.8	524.2	514.9	506.3	495.9	485.5	477.1	470.9	464.6	461.4	461.4
165°	525.0	517.1	510.1	504.1	497.1	489.1	482.1	478.1	473.1	471.1	472.1
167.5°	515.7	509.9	505.3	502.5	496.9	491.1	486.7	483.9	480.1	479.1	480.3
170°	510.1	505.1	502.1	500.1	496.1	491.1	489.1	487.1	484.1	483.1	485.1
172.5°	504.5	501.1	499.7	499.3	496.1	491.9	490.7	489.5	487.3	487.1	488.3
175°	498.1	496.1	496.1	497.1	495.1	493.1	492.1	492.1	490.1	491.1	492.1
177.5°	493.9	493.1	493.9	495.5	493.9	493.1	493.1	493.1	492.3	493.1	493.9
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1



TEST NUMBER: P332029

CATALOG NUMBER: S123DIP-S1000D1025U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1413.2	1416.0	1425.2	1431.8	1439.4	1443.7	1448.1	1451.4	1455.7	1456.8	1472.6
5°	1419.5	1433.1	1456.9	1474.6	1496.4	1520.2	1536.5	1544.0	1563.8	1580.1	1612.8
7.5°	1417.7	1446.7	1482.7	1519.9	1560.0	1597.0	1629.1	1667.2	1694.3	1735.0	1775.1
10°	1416.1	1454.9	1501.2	1548.8	1604.6	1656.3	1702.6	1754.3	1797.2	1853.7	1902.0
12.5°	1411.2	1458.2	1522.4	1578.7	1646.5	1717.8	1786.4	1852.8	1890.8	1984.9	2029.4
15°	1399.1	1454.9	1535.2	1620.9	1714.2	1798.5	1885.6	1955.1	2067.3	2149.7	2202.1
17.5°	1376.0	1454.1	1549.3	1652.8	1766.1	1877.3	1976.0	2081.4	2200.4	2300.1	2406.2
20°	1365.1	1450.8	1557.0	1671.3	1789.0	1914.9	2027.2	2153.8	2283.7	2381.7	2517.8
22.5°	1344.9	1442.1	1556.4	1683.8	1809.7	1939.9	2071.3	2198.9	2349.1	2484.1	2613.6
25°	1312.0	1420.9	1539.3	1681.5	1829.2	1959.8	2117.0	2286.5	2443.0	2616.5	2745.8
27.5°	1277.4	1393.6	1512.3	1644.6	1803.4	1958.5	2156.2	2347.7	2539.0	2688.9	2784.6
30°	1250.7	1363.7	1486.2	1619.6	1776.8	1961.2	2182.3	2391.2	2577.7	2706.3	2760.1
32.5°	1221.9	1336.5	1444.8	1584.7	1752.3	1959.5	2198.7	2416.8	2579.9	2665.5	2655.0
35°	1176.6	1272.5	1378.0	1512.7	1710.1	1947.6	2208.2	2419.1	2519.2	2500.8	2362.0
37.5°	1111.2	1191.9	1295.8	1443.3	1661.1	1922.4	2189.1	2347.4	2340.9	2191.3	1990.2
40°	1070.4	1139.1	1239.2	1394.3	1623.0	1906.1	2159.2	2262.0	2174.9	1965.9	1725.0
42.5°	1017.1	1080.3	1180.4	1339.9	1581.1	1872.8	2102.0	2131.8	1961.4	1721.0	1500.2
45°	934.3	990.1	1093.5	1258.2	1518.2	1800.6	1962.5	1889.7	1660.4	1412.0	1243.9
47.5°	845.4	903.4	1002.9	1172.1	1427.3	1691.8	1769.0	1614.1	1378.7	1177.2	1022.9
50°	789.4	845.2	942.5	1113.3	1365.7	1602.6	1634.5	1434.5	1218.1	1041.2	914.6
52.5°	732.8	785.3	881.0	1052.3	1293.9	1499.1	1479.4	1275.5	1076.5	925.7	826.4
55°	648.5	698.2	789.4	950.0	1169.8	1332.4	1261.0	1066.3	901.7	784.6	709.1
57.5°	573.1	620.7	699.4	844.5	1035.6	1147.3	1056.4	892.4	761.5	671.4	615.0
60°	521.9	564.1	639.0	773.7	939.8	1024.8	935.0	790.1	679.8	607.7	557.3
62.5°	473.5	510.2	579.6	701.9	846.1	917.6	826.7	704.0	610.1	546.2	503.4
65°	400.1	433.5	494.7	590.0	708.4	756.0	677.8	578.4	505.6	458.0	429.4
67.5°	333.2	361.5	414.4	489.4	576.5	611.2	551.6	474.7	419.9	381.6	358.9
70°	288.5	313.0	354.5	419.2	498.1	524.7	468.9	405.6	365.4	334.8	313.7
72.5°	251.0	268.9	306.6	356.6	422.4	443.5	404.6	349.0	311.5	288.5	271.8
75°	191.2	206.2	230.7	270.8	316.4	328.7	299.4	264.7	239.5	223.2	210.3
77.5°	137.9	148.9	166.6	191.4	222.9	234.0	215.4	192.3	173.9	162.9	155.7
80°	104.1	113.0	127.9	148.3	167.4	173.5	162.6	144.9	132.0	125.9	119.8
82.5°	76.9	81.9	90.9	104.8	117.9	125.1	115.8	105.2	98.3	92.7	90.4
85°	38.8	41.5	45.6	51.0	59.2	61.9	58.5	55.8	51.7	48.3	48.3
87.5°	15.0	15.4	17.6	19.1	21.6	23.9	23.9	23.4	23.5	22.8	22.4
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	34.5	42.9	57.7	83.8	126.8	168.9	153.5	115.8	84.0
95°	36.9	47.9	64.9	90.8	129.8	214.6	363.3	527.0	591.9	480.1	359.3
97.5°	58.9	67.5	82.2	107.8	149.9	231.0	398.7	671.6	917.3	981.4	895.8
100°	74.9	81.9	95.8	119.8	158.7	228.6	376.3	638.8	945.3	1141.9	1176.9
102.5°	92.4	98.6	111.8	133.4	169.1	231.8	357.1	590.9	893.4	1149.9	1270.3
105°	118.8	124.8	136.8	155.7	186.7	240.6	343.4	532.0	802.5	1089.0	1297.6
107.5°	145.5	151.3	163.1	180.9	209.6	256.9	342.4	494.5	722.3	982.4	1219.0
110°	164.7	169.7	180.7	197.6	225.6	270.5	346.4	480.1	676.8	915.3	1143.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	182.3	187.3	198.2	215.2	242.4	284.1	354.4	472.1	646.4	857.0	1069.6
115°	208.6	214.6	224.6	241.6	268.5	306.4	367.3	469.1	613.9	786.6	971.2
117.5°	234.6	239.6	248.7	267.7	292.7	330.2	384.5	470.9	594.7	744.0	900.0
120°	250.5	255.5	265.5	284.5	309.4	345.4	397.3	474.1	585.9	721.7	862.4
122.5°	265.7	270.7	281.5	299.7	326.2	361.3	409.3	479.7	580.3	703.3	832.9
125°	286.5	292.5	303.4	322.4	349.4	384.3	428.2	488.1	573.0	679.8	793.6
127.5°	304.0	311.4	322.6	343.6	370.5	404.3	443.8	497.7	569.4	659.0	759.2
130°	314.4	323.4	335.4	356.3	383.3	416.2	454.2	504.1	567.0	647.8	737.7
132.5°	323.2	333.0	347.4	368.3	394.5	426.6	463.8	508.9	566.2	637.4	717.7
135°	337.4	348.4	363.3	384.3	411.2	442.2	476.1	516.1	565.0	623.9	690.7
137.5°	350.8	361.5	377.5	398.3	423.2	453.0	485.3	520.8	562.8	612.1	666.2
140°	360.3	370.3	386.3	406.3	431.2	460.2	490.1	524.0	562.0	604.9	651.8
142.5°	369.1	379.9	394.3	414.2	437.6	465.8	494.9	526.4	560.4	598.5	638.2
145°	383.3	392.3	407.3	424.2	447.2	473.1	500.1	528.0	558.0	589.9	621.9
147.5°	397.7	406.5	419.4	435.8	455.4	479.1	503.3	528.0	554.2	581.5	608.5
150°	407.3	415.2	428.2	442.2	460.2	483.1	504.1	528.0	551.0	575.9	598.9
152.5°	416.8	424.8	436.2	448.6	465.8	485.5	505.7	525.6	547.0	569.6	590.1
155°	432.2	438.2	448.2	459.2	473.1	490.1	506.1	523.0	540.0	560.0	576.9
157.5°	445.4	450.2	459.0	468.3	479.1	492.7	507.1	519.7	533.8	549.2	563.0
160°	454.2	458.2	466.1	473.1	483.1	495.1	507.1	518.1	529.0	542.0	555.0
162.5°	461.4	464.6	470.9	477.1	485.5	495.9	506.3	514.9	524.2	534.8	545.4
165°	471.1	473.1	478.1	482.1	489.1	497.1	504.1	510.1	517.1	525.0	533.0
167.5°	479.1	480.1	483.9	486.7	491.1	496.9	502.5	505.3	509.9	515.7	522.2
170°	483.1	484.1	487.1	489.1	491.1	496.1	500.1	502.1	505.1	510.1	515.1
172.5°	487.1	487.3	489.5	490.7	491.9	496.1	499.3	499.7	501.1	504.5	508.7
175°	491.1	490.1	492.1	492.1	493.1	495.1	497.1	496.1	496.1	498.1	500.1
177.5°	493.1	492.3	493.1	493.1	493.1	493.9	495.5	493.9	493.1	493.9	494.7
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1478.0	1478.6	1484.6	1488.9	1486.7	1489.5	1490.5
5°	1614.8	1639.3	1652.2	1661.8	1662.4	1663.1	1668.6
7.5°	1808.7	1835.0	1854.2	1883.3	1892.0	1902.0	1899.1
10°	1950.3	1989.1	2022.4	2040.1	2059.2	2087.1	2064.6
12.5°	2082.6	2151.3	2202.1	2229.6	2247.5	2253.1	2242.1
15°	2300.7	2390.6	2438.9	2437.5	2498.8	2525.3	2483.8
17.5°	2500.8	2583.7	2650.1	2684.1	2735.2	2746.5	2741.3
20°	2623.3	2713.8	2765.5	2824.0	2850.6	2874.4	2878.5
22.5°	2728.9	2810.2	2865.7	2914.4	2936.6	2947.9	2954.7
25°	2837.6	2901.6	2935.0	2952.0	2958.1	2956.7	2947.9
27.5°	2830.2	2835.1	2798.3	2762.3	2730.0	2693.7	2681.1
30°	2756.7	2699.5	2597.4	2539.6	2454.5	2387.2	2414.4
32.5°	2563.4	2449.6	2335.0	2208.6	2103.9	2074.1	2044.2
35°	2187.8	1987.7	1870.7	1734.6	1680.1	1625.7	1588.3
37.5°	1770.0	1615.2	1476.4	1387.4	1332.8	1298.4	1279.9
40°	1530.4	1390.9	1276.6	1204.5	1163.0	1124.2	1118.7
42.5°	1339.3	1209.6	1123.6	1066.2	1026.3	1009.8	997.9
45°	1097.0	1006.4	948.6	907.8	881.2	871.0	857.4
47.5°	928.5	864.5	821.1	793.3	773.3	765.7	764.6
50°	834.3	781.2	749.2	727.4	711.8	709.1	698.2
52.5°	763.5	717.5	692.6	673.6	662.3	654.6	651.4
55°	662.8	632.2	609.7	598.8	590.0	582.5	582.5
57.5°	579.9	554.3	539.5	530.2	527.5	522.2	518.8
60°	528.7	507.0	495.4	487.2	481.8	482.5	476.3
62.5°	478.7	464.5	453.5	445.3	438.8	438.9	439.3
65°	407.6	396.7	388.6	385.8	381.8	377.0	378.4
67.5°	345.4	335.2	328.8	324.2	322.8	320.2	324.2
70°	300.8	293.3	288.5	284.4	283.1	283.8	287.2
72.5°	259.9	254.6	251.5	249.6	246.6	246.7	249.1
75°	204.1	200.1	197.3	195.3	194.6	194.6	194.6
77.5°	150.0	149.0	147.8	144.8	144.9	145.8	145.9
80°	118.4	116.4	115.7	114.3	112.3	110.9	114.3
82.5°	88.5	86.4	85.7	85.5	82.3	82.1	84.9
85°	47.6	45.6	46.3	45.6	45.6	44.9	44.9
87.5°	22.1	21.7	21.6	21.9	21.6	21.2	22.1
90°	26.0	27.0	28.9	27.9	28.9	29.9	28.9
92.5°	66.7	58.9	53.7	51.9	48.9	49.9	48.1
95°	243.6	190.7	154.7	135.8	126.8	119.8	115.8
97.5°	717.5	588.7	469.3	395.7	350.8	323.8	315.2
100°	1096.0	979.2	837.5	736.7	663.8	624.9	625.9
102.5°	1267.7	1199.6	1109.8	1031.3	973.6	941.1	918.1
105°	1397.5	1416.4	1390.5	1344.5	1306.6	1274.7	1269.7
107.5°	1381.1	1468.5	1504.1	1504.9	1492.1	1481.3	1472.1
110°	1327.6	1453.3	1523.2	1551.2	1559.2	1557.2	1555.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1257.3	1398.2	1488.1	1539.2	1563.9	1571.5	1571.9
115°	1144.9	1291.6	1400.4	1475.3	1519.2	1539.2	1544.2
117.5°	1049.9	1181.6	1292.0	1370.1	1420.4	1449.2	1455.9
120°	997.2	1117.0	1217.8	1296.6	1352.5	1376.5	1382.5
122.5°	954.9	1065.9	1159.5	1229.6	1279.9	1306.2	1313.8
125°	902.4	998.2	1078.0	1141.9	1185.8	1210.8	1217.8
127.5°	856.2	942.7	1015.3	1072.2	1109.8	1132.3	1138.7
130°	827.5	908.3	976.2	1029.1	1065.1	1086.0	1094.0
132.5°	800.3	875.6	940.3	990.0	1025.9	1044.5	1050.1
135°	761.6	826.5	883.4	932.3	962.2	980.2	987.2
137.5°	724.3	780.2	829.5	870.6	901.0	916.1	920.7
140°	702.7	750.6	793.6	831.5	859.4	875.4	874.4
142.5°	682.0	723.5	760.8	793.2	817.9	832.3	831.3
145°	654.8	686.7	715.7	740.6	761.6	769.6	771.6
147.5°	634.6	660.4	681.0	699.9	714.1	721.7	722.5
150°	621.9	642.8	661.8	676.8	687.7	693.7	693.7
152.5°	609.9	628.5	644.2	656.0	666.2	669.8	669.8
155°	592.9	607.9	619.9	628.9	636.8	638.8	639.8
157.5°	576.3	587.9	597.3	605.1	611.1	612.7	612.5
160°	566.0	575.9	582.9	589.9	595.9	595.9	594.9
162.5°	554.8	564.0	570.2	574.8	579.9	579.9	578.9
165°	539.0	546.0	551.0	555.0	559.0	558.0	558.0
167.5°	526.8	530.8	534.4	536.2	539.0	538.0	538.0
170°	518.1	522.0	524.0	525.0	527.0	526.0	526.0
172.5°	510.9	514.1	515.3	515.5	517.5	515.7	514.9
175°	501.1	503.1	503.1	503.1	504.1	503.1	502.1
177.5°	495.5	496.3	496.3	495.5	496.3	494.7	494.7
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1

(END OF REPORT)