

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: P331966

Luminaire Tested: **S123DIP-S775D585U835-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331966  
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-S775D585U835-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 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: 5383.3 lumens  
Efficiency: N/A  
Efficacy: 133.6 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Direct

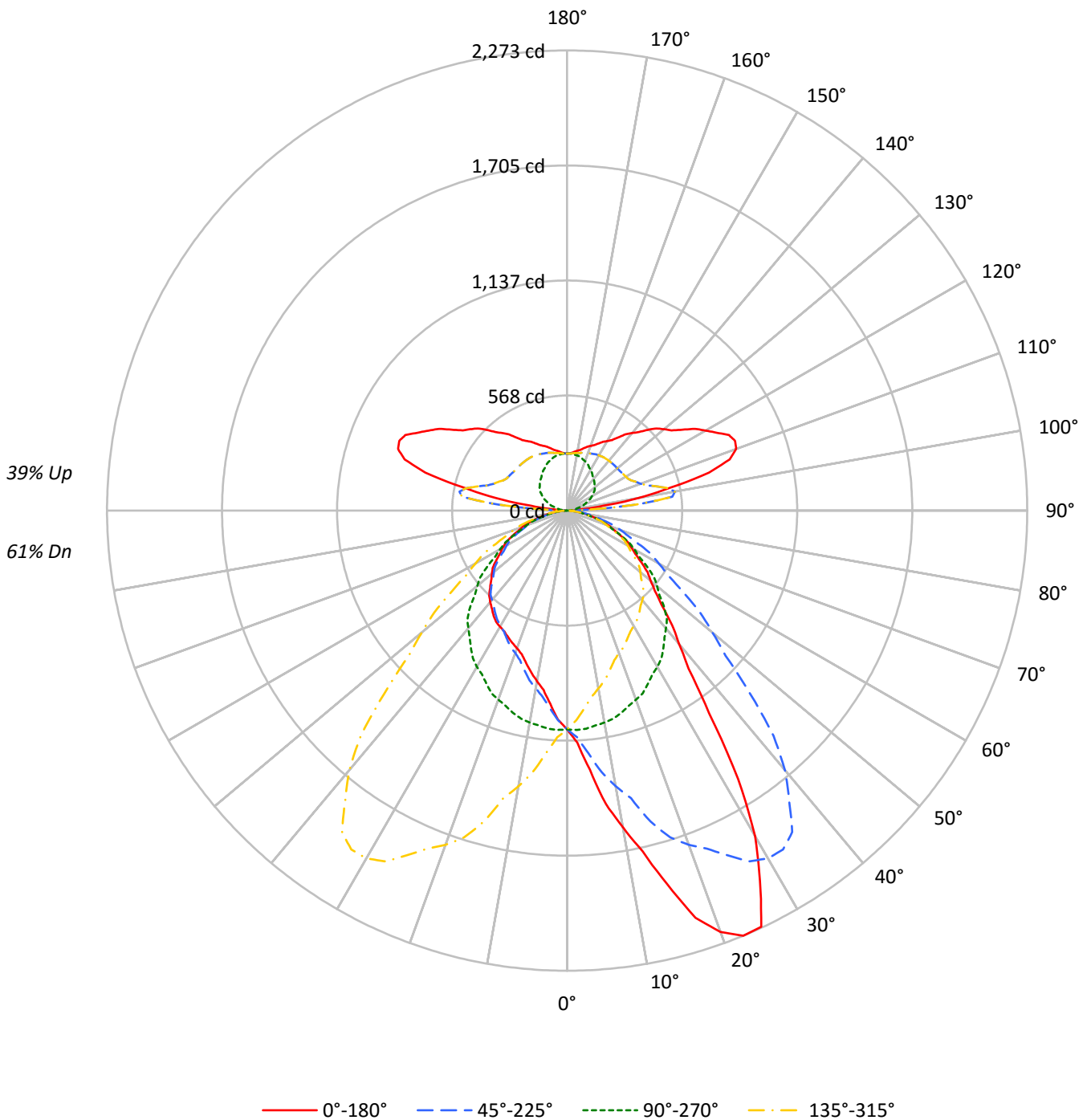
Input Watts (W): 40.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	101	96	92	89	94	90	87	84	79	76	74	68	67	65	59	58	56	52
2	92	84	78	73	86	79	74	69	69	65	62	60	57	55	52	50	48	44
3	84	74	67	61	78	70	64	58	62	56	52	54	50	47	46	44	41	37
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	38	36	32
5	71	59	51	45	66	56	48	43	49	43	39	43	39	35	38	34	31	28
6	65	53	45	39	61	50	43	37	44	39	34	39	34	31	34	30	28	25
7	60	48	40	34	56	45	38	33	40	34	30	36	31	27	31	27	25	22
8	56	44	36	31	52	41	34	29	37	31	27	33	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18
10	49	37	29	25	46	35	28	24	31	26	22	28	23	20	25	21	18	16

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

	0°	90°	180°	270°
0°	11630	11630	11630	11630
5°	13870	11681	10351	11681
10°	17361	11622	9349	11622
15°	21293	11528	8704	11528
20°	25366	11381	8287	11381
25°	26935	11204	8195	11204
30°	23086	11074	8238	11074
35°	16056	10889	8324	10889
40°	12094	10673	8297	10673
45°	10041	10353	8193	10353
50°	8994	9696	8118	9696
55°	8409	8989	8017	8989
60°	7890	8249	7935	8249
65°	7414	7521	7679	7521
70°	6952	6688	7314	6688
75°	6226	5856	6704	5856
80°	5455	4804	5777	4804
85°	4273	3495	3878	3495



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.4	2.0
10°-20°	341.3	6.3
20°-30°	572.8	10.6
30°-40°	648.6	12.0
40°-50°	581.7	10.8
50°-60°	469.4	8.7
60°-70°	327.1	6.1
70°-80°	171.9	3.2
80°-90°	44.2	0.8
90°-100°	156.8	2.9
100°-110°	444.0	8.2
110°-120°	436.8	8.1
120°-130°	348.4	6.5
130°-140°	274.7	5.1
140°-150°	205.0	3.8
150°-160°	142.9	2.7
160°-170°	83.9	1.6
170°-180°	27.3	0.5
0°-30°	1020.6	19.0
0°-40°	1669.2	31.0
0°-60°	2720.2	50.5
0°-90°	3263.5	60.6
90°-120°	1037.6	19.3
90°-150°	1865.7	34.7
90°-180°	2120.0	39.4
0°-180°	5383.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1080	1080	1080	1080	1080	
5°	1284	1081	958	1081	1284	133
15°	1911	1034	781	1034	1911	552
25°	2268	943	690	943	2268	995
35°	1222	829	634	829	1222	794
45°	660	680	538	680	660	522
55°	448	479	427	479	448	402
65°	291	295	302	295	291	290
75°	150	141	161	141	150	160
85°	35	28	31	28	35	41
90°	16	1	16	1	16	10
95°	66	19	66	19	66	119
105°	726	66	726	66	726	716
115°	882	117	882	117	882	857
125°	696	163	696	163	696	631
135°	564	190	564	190	564	438
145°	441	217	441	217	441	280
155°	366	247	366	247	366	171
165°	319	270	319	270	319	91
175°	287	281	287	281	287	28
180°	282	282	282	282	282	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5
2.5°	1146.7	1145.9	1143.8	1145.5	1142.1	1137.5	1137.1	1132.9	1120.7	1119.9	1116.6
5°	1283.7	1279.5	1279.0	1278.4	1271.1	1261.2	1242.3	1240.7	1215.6	1203.0	1187.9
7.5°	1461.0	1463.2	1455.6	1448.9	1426.5	1411.7	1391.5	1365.6	1334.8	1303.5	1282.6
10°	1588.4	1605.6	1584.2	1569.5	1555.9	1530.2	1500.4	1463.2	1426.1	1382.6	1349.6
12.5°	1724.9	1733.4	1729.1	1715.3	1694.1	1655.1	1602.2	1561.2	1527.0	1454.6	1425.4
15°	1910.8	1942.8	1922.4	1875.2	1876.3	1839.1	1770.0	1694.1	1653.8	1590.4	1504.1
17.5°	2108.9	2112.9	2104.2	2065.0	2038.8	1987.7	1923.9	1851.2	1769.5	1692.8	1601.2
20°	2214.5	2211.3	2193.0	2172.6	2127.6	2087.8	2018.2	1937.0	1832.3	1756.9	1656.9
22.5°	2273.1	2267.9	2259.2	2242.1	2204.6	2161.9	2099.4	2010.7	1911.1	1807.2	1691.7
25°	2267.9	2274.7	2275.7	2271.0	2257.9	2232.3	2183.1	2112.4	2012.9	1879.4	1759.0
27.5°	2062.7	2072.3	2100.3	2125.1	2152.8	2181.1	2177.3	2142.2	2068.6	1953.4	1806.1
30°	1857.4	1836.5	1888.3	1953.8	1998.3	2076.8	2120.8	2123.4	2082.0	1983.1	1839.6
32.5°	1572.6	1595.7	1618.6	1699.1	1796.4	1884.6	1972.1	2042.6	2050.6	1984.8	1859.3
35°	1221.9	1250.7	1292.6	1334.4	1439.2	1529.2	1683.1	1817.1	1923.9	1938.1	1861.1
37.5°	984.6	998.9	1025.4	1067.3	1135.8	1242.6	1361.7	1531.1	1685.8	1800.9	1805.9
40°	860.7	864.9	894.7	926.6	982.1	1070.1	1177.4	1327.1	1512.4	1673.2	1740.2
42.5°	767.7	776.9	789.6	820.2	864.4	930.6	1030.4	1154.1	1324.0	1509.0	1640.1
45°	659.6	670.1	678.0	698.4	729.8	774.3	843.9	957.0	1086.3	1277.4	1453.8
47.5°	588.2	589.1	594.9	610.3	631.7	665.1	714.3	787.0	905.7	1060.6	1241.8
50°	537.1	545.5	547.6	559.6	576.4	601.0	641.8	703.6	801.0	937.1	1103.6
52.5°	501.1	503.6	509.5	518.2	532.8	552.0	587.4	635.8	712.2	828.2	981.3
55°	448.1	448.1	453.9	460.7	469.1	486.3	509.9	545.5	603.6	693.7	820.4
57.5°	399.1	401.7	405.8	407.9	415.0	426.5	446.1	473.2	516.5	585.8	686.5
60°	366.5	371.2	370.7	374.8	381.1	390.0	406.8	428.8	467.5	523.0	607.8
62.5°	338.0	337.7	337.6	342.6	348.9	357.4	368.2	387.3	420.2	469.4	541.6
65°	291.1	290.0	293.7	296.8	298.9	305.2	313.6	330.3	352.3	389.0	445.0
67.5°	249.4	246.4	248.4	249.4	253.0	257.9	265.7	276.1	293.6	323.0	365.2
70°	220.9	218.3	217.8	218.8	222.0	225.6	231.4	241.3	257.6	281.1	312.0
72.5°	191.6	189.8	189.7	192.0	193.5	195.9	200.0	209.1	222.0	239.7	268.5
75°	149.7	149.7	149.7	150.2	151.8	153.9	157.1	161.8	171.7	184.3	203.6
77.5°	112.2	112.1	111.5	111.4	113.7	114.7	115.4	119.8	125.3	133.8	147.9
80°	88.0	85.3	86.4	88.0	89.0	89.5	91.1	92.1	96.9	101.6	111.5
82.5°	65.3	63.1	63.3	65.8	66.0	66.5	68.1	69.5	71.3	75.6	80.9
85°	34.6	34.6	35.1	35.1	35.6	35.1	36.6	37.2	37.2	39.8	42.9
87.5°	15.9	15.1	15.5	15.8	15.5	15.6	15.9	16.3	16.6	17.1	17.2
90°	16.5	17.1	16.5	16.0	16.5	15.4	14.8	14.3	13.7	14.3	12.5
92.5°	27.5	28.5	27.9	29.7	30.7	33.7	38.1	48.0	66.2	87.7	96.5
95°	66.2	68.4	72.4	77.6	88.4	108.9	139.2	205.3	274.3	338.2	301.2
97.5°	180.1	185.0	200.4	226.1	268.2	336.4	410.0	511.9	560.8	524.2	383.7
100°	357.6	357.1	379.3	420.9	478.5	559.5	626.3	672.5	652.5	540.1	365.0
102.5°	524.6	537.7	556.3	589.3	634.1	685.5	724.4	725.9	657.1	510.5	337.7
105°	725.5	728.4	746.6	768.3	794.5	809.4	798.5	741.5	622.3	458.6	304.0
107.5°	841.2	846.4	852.6	859.9	859.4	839.1	789.2	696.5	561.4	412.7	282.6
110°	888.6	889.8	890.9	886.4	870.4	830.5	758.6	653.6	523.0	386.7	274.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	898.2	898.0	893.7	879.5	850.3	799.0	718.4	611.2	489.7	369.4	269.8
115°	882.4	879.5	868.1	843.0	800.2	738.1	654.2	555.0	449.5	350.8	268.1
117.5°	831.9	828.1	811.6	782.9	738.3	675.2	599.9	514.2	425.2	339.8	269.1
120°	790.0	786.5	772.9	740.9	695.9	638.2	569.8	492.8	412.4	334.8	270.9
122.5°	750.7	746.4	731.3	702.6	662.5	609.0	545.6	475.9	401.9	331.6	274.1
125°	695.9	691.9	677.6	652.5	616.0	570.4	515.6	453.4	388.4	327.4	278.9
127.5°	650.7	647.0	634.1	612.7	580.2	538.7	489.3	433.8	376.6	325.3	284.4
130°	625.1	620.6	608.6	588.1	557.8	519.0	472.8	421.5	370.2	324.0	288.0
132.5°	600.0	596.8	586.2	565.7	537.3	500.3	457.3	410.1	364.2	323.5	290.8
135°	564.1	560.1	549.8	532.7	504.8	472.3	435.2	394.7	356.5	322.8	294.9
137.5°	526.1	523.5	514.8	497.5	474.0	445.8	413.9	380.7	349.8	321.6	297.6
140°	499.6	500.2	491.1	475.1	453.4	428.9	401.5	372.5	345.6	321.1	299.4
142.5°	475.0	475.6	467.4	453.2	434.7	413.4	389.7	364.7	342.0	320.2	300.8
145°	440.9	439.8	435.2	423.2	409.0	392.4	374.2	355.3	337.1	318.8	301.7
147.5°	412.8	412.4	408.0	399.9	389.1	377.4	362.6	347.7	332.3	316.7	301.7
150°	396.4	396.4	393.0	386.7	378.2	367.3	355.3	342.2	329.1	314.8	301.7
152.5°	382.7	382.7	380.7	374.8	368.1	359.1	348.5	337.2	325.5	312.6	300.4
155°	365.6	365.0	363.9	359.3	354.2	347.4	338.8	329.7	320.0	308.6	298.9
157.5°	350.0	350.1	349.2	345.8	341.3	336.0	329.3	321.7	313.8	305.0	296.9
160°	339.9	340.5	340.5	337.1	333.1	329.1	323.4	317.1	309.7	302.3	296.0
162.5°	330.8	331.4	331.4	328.4	325.8	322.3	317.0	311.7	305.6	299.6	294.2
165°	318.8	318.8	319.4	317.1	314.8	312.0	308.0	304.6	300.0	295.5	291.5
167.5°	307.4	307.4	308.0	306.4	305.4	303.3	301.0	298.4	294.7	291.3	288.7
170°	300.6	300.6	301.2	300.0	299.4	298.3	296.0	294.3	291.5	288.6	286.9
172.5°	294.2	294.7	295.7	294.5	294.4	293.7	291.9	290.7	288.3	286.3	285.5
175°	286.9	287.5	288.0	287.5	287.5	287.5	286.3	285.8	284.6	283.5	283.5
177.5°	282.7	282.7	283.6	283.1	283.6	283.6	283.1	282.7	282.2	281.8	282.2
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5
2.5°	1114.0	1110.7	1107.3	1101.5	1096.5	1089.3	1087.2	1084.7	1077.2	1070.5	1065.5
5°	1182.1	1169.5	1151.2	1134.5	1120.9	1102.5	1092.1	1081.1	1065.4	1051.2	1039.7
7.5°	1253.3	1228.6	1200.1	1169.3	1140.6	1113.0	1090.7	1070.8	1048.8	1028.0	1011.8
10°	1309.8	1274.2	1234.5	1191.5	1154.9	1119.3	1089.4	1063.3	1035.0	1010.4	990.0
12.5°	1374.3	1321.6	1266.7	1214.6	1171.2	1121.8	1085.7	1052.4	1020.3	990.7	967.8
15°	1450.7	1383.7	1318.7	1247.0	1181.1	1119.3	1076.4	1034.5	997.3	966.9	937.6
17.5°	1520.2	1444.3	1358.7	1271.5	1191.9	1118.7	1058.6	1011.2	964.7	927.6	898.4
20°	1559.6	1473.2	1376.3	1285.8	1197.8	1116.1	1050.2	993.6	943.4	904.1	871.1
22.5°	1593.5	1492.4	1392.2	1295.4	1197.4	1109.4	1034.7	976.5	922.0	883.6	848.5
25°	1628.7	1507.7	1407.2	1293.6	1184.2	1093.1	1009.3	943.4	888.9	843.9	807.8
27.5°	1658.8	1506.7	1387.4	1265.2	1163.5	1072.2	982.7	912.0	854.2	805.3	768.6
30°	1678.9	1508.8	1366.9	1246.0	1143.4	1049.1	962.2	891.0	830.3	780.6	746.0
32.5°	1691.5	1507.5	1348.1	1219.2	1111.5	1028.2	940.0	866.3	803.9	755.0	721.7
35°	1698.8	1498.3	1315.6	1163.8	1060.1	979.0	905.2	828.7	763.3	717.7	680.1
37.5°	1684.2	1478.9	1277.9	1110.4	996.9	917.0	854.9	789.8	727.2	677.0	644.6
40°	1661.1	1466.4	1248.6	1072.7	953.3	876.4	823.5	759.6	697.8	650.2	619.8
42.5°	1617.1	1440.8	1216.3	1030.8	908.1	831.1	782.5	729.1	670.6	625.9	595.6
45°	1509.8	1385.2	1168.0	968.0	841.3	761.7	718.8	680.1	627.2	583.7	557.5
47.5°	1360.9	1301.6	1098.0	901.7	771.6	695.0	650.4	619.2	580.6	545.5	520.4
50°	1257.5	1232.9	1050.7	856.5	725.1	650.2	607.3	579.0	551.3	516.2	493.2
52.5°	1138.1	1153.3	995.4	809.6	677.7	604.1	563.7	541.3	516.1	487.3	467.2
55°	970.1	1025.0	899.9	730.8	607.3	537.1	498.9	479.0	464.4	442.9	425.6
57.5°	812.7	882.7	796.7	649.7	538.1	477.6	440.9	419.2	409.8	398.6	385.0
60°	719.3	788.4	723.0	595.2	491.6	434.0	401.5	383.2	373.8	365.9	354.4
62.5°	636.0	705.9	650.9	540.0	445.9	392.5	364.3	346.4	339.0	334.9	325.1
65°	521.4	581.6	545.0	453.9	380.6	333.5	307.8	295.3	288.5	286.9	280.6
67.5°	424.4	470.2	443.5	376.5	318.8	278.1	256.3	245.6	240.4	239.9	235.2
70°	360.7	403.6	383.2	322.5	272.8	240.8	222.0	212.5	209.4	208.9	206.3
72.5°	311.3	341.2	325.0	274.3	235.9	206.9	193.1	183.2	179.7	180.4	178.6
75°	230.3	252.9	243.4	208.4	177.5	158.6	147.1	140.8	137.7	139.3	137.2
77.5°	165.7	180.0	171.5	147.2	128.2	114.5	106.1	102.2	99.4	99.3	98.3
80°	125.1	133.5	128.8	114.1	98.4	86.9	80.1	77.5	75.9	75.4	74.9
82.5°	89.1	96.2	90.7	80.6	69.9	63.0	59.2	55.7	54.6	54.9	54.3
85°	45.0	47.6	45.5	39.3	35.1	31.9	29.8	28.3	27.2	27.7	26.7
87.5°	17.7	17.7	16.1	14.2	13.2	11.6	11.3	10.3	9.7	9.9	9.8
90°	10.8	9.1	7.4	6.3	5.1	3.4	2.3	1.1	2.3	3.4	5.1
92.5°	72.4	47.9	33.0	24.5	19.7	15.3	10.5	7.1	10.5	15.3	19.7
95°	207.6	122.6	74.1	51.9	37.1	27.4	21.1	19.4	21.1	27.4	37.1
97.5°	227.8	132.0	85.7	61.6	47.0	38.6	33.7	33.1	33.7	38.6	47.0
100°	215.0	130.6	90.7	68.4	54.8	46.8	42.8	42.2	42.8	46.8	54.8
102.5°	204.1	132.4	96.6	76.2	63.9	56.4	52.8	51.8	52.8	56.4	63.9
105°	196.2	137.5	106.7	89.0	78.1	71.3	67.9	66.2	67.9	71.3	78.1
107.5°	195.6	146.8	119.8	103.4	93.2	86.5	83.2	81.4	83.2	86.5	93.2
110°	197.9	154.6	128.9	112.9	103.2	97.0	94.1	92.4	94.1	97.0	103.2





TEST NUMBER: P331966

CATALOG NUMBER: S123DIP-S775D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	202.5	162.3	138.5	123.0	113.3	107.0	104.2	102.4	104.2	107.0	113.3
115°	209.9	175.1	153.4	138.0	128.3	122.6	119.2	116.9	119.2	122.6	128.3
117.5°	219.7	188.7	167.2	153.0	142.1	136.9	134.0	131.4	134.0	136.9	142.1
120°	227.0	197.3	176.8	162.6	151.7	146.0	143.2	141.5	143.2	146.0	151.7
122.5°	233.9	206.5	186.4	171.2	160.8	154.7	151.8	150.1	151.8	154.7	160.8
125°	244.7	219.6	199.6	184.2	173.4	167.1	163.7	162.6	163.7	167.1	173.4
127.5°	253.6	231.0	211.7	196.3	184.3	178.0	173.7	172.0	173.7	178.0	184.3
130°	259.5	237.8	219.0	203.6	191.6	184.8	179.7	178.0	179.7	184.8	191.6
132.5°	265.0	243.8	225.4	210.5	198.5	190.3	184.7	182.5	184.7	190.3	198.5
135°	272.1	252.7	235.0	219.6	207.6	199.1	192.8	190.5	192.8	199.1	207.6
137.5°	277.3	258.8	241.8	227.6	215.7	206.6	200.4	198.0	200.4	206.6	215.7
140°	280.1	262.9	246.4	232.1	220.7	211.6	205.9	203.1	205.9	211.6	220.7
142.5°	282.8	266.1	250.1	236.7	225.3	217.1	210.9	208.5	210.9	217.1	225.3
145°	285.8	270.4	255.5	242.4	232.7	224.2	219.0	217.3	219.0	224.2	232.7
147.5°	287.6	273.8	260.2	249.0	239.7	232.3	227.2	226.2	227.2	232.3	239.7
150°	288.0	276.1	262.9	252.7	244.7	237.3	232.7	232.1	232.7	237.3	244.7
152.5°	289.0	277.4	266.1	256.3	249.3	242.8	238.2	238.1	238.2	242.8	249.3
155°	289.2	280.1	270.4	262.4	256.1	250.4	247.0	247.0	247.0	250.4	256.1
157.5°	289.8	281.5	273.8	267.6	262.3	257.2	254.5	254.0	254.5	257.2	262.3
160°	289.8	282.9	276.1	270.4	266.4	261.8	259.5	259.5	259.5	261.8	266.4
162.5°	289.3	283.4	277.4	272.6	269.1	265.5	263.6	263.6	263.6	265.5	269.1
165°	288.0	284.0	279.5	275.5	273.2	270.4	269.2	269.8	269.2	270.4	273.2
167.5°	287.1	283.9	280.6	278.1	276.5	274.3	273.8	274.5	273.8	274.3	276.5
170°	285.8	283.5	280.6	279.5	278.3	276.6	276.1	277.2	276.1	276.6	278.3
172.5°	285.3	283.5	281.1	280.4	279.7	278.5	278.3	279.0	278.3	278.5	279.7
175°	284.0	282.9	281.8	281.2	281.2	280.1	280.6	281.2	280.6	280.1	281.2
177.5°	283.1	282.2	281.8	281.8	281.8	281.3	281.8	282.2	281.8	281.3	281.8
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



TEST NUMBER: P331966

CATALOG NUMBER: S123DIP-S775D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5
2.5°	1062.5	1059.6	1055.4	1049.1	1044.1	1036.1	1036.1	1037.4	1037.4	1037.0	1036.1
5°	1030.3	1022.4	1013.0	1002.0	990.5	979.0	976.9	972.7	969.6	967.5	964.8
7.5°	996.3	982.3	968.6	953.2	939.2	927.6	919.5	912.8	908.5	903.9	900.6
10°	973.2	955.9	939.7	923.5	905.7	891.6	882.7	876.4	871.7	867.5	865.4
12.5°	946.0	926.2	908.3	892.9	873.4	858.9	850.4	847.5	841.9	833.1	828.5
15°	906.2	887.9	866.4	842.9	833.4	815.6	805.7	801.0	797.8	791.0	788.9
17.5°	872.2	848.2	824.1	806.5	789.0	774.6	769.0	763.2	759.0	753.4	751.8
20°	845.0	823.5	801.5	782.7	764.3	748.6	743.9	739.7	735.5	732.9	730.8
22.5°	817.3	795.9	777.6	760.0	740.5	730.2	725.1	720.5	717.5	715.8	713.7
25°	778.5	759.6	739.2	723.5	707.8	701.0	697.8	695.2	693.1	690.5	690.0
27.5°	743.7	723.2	706.6	692.0	680.7	675.0	672.0	670.7	671.2	672.1	672.7
30°	717.7	698.9	685.3	672.7	662.3	657.0	656.5	656.5	658.6	659.1	660.2
32.5°	693.9	678.4	664.8	652.6	644.7	641.1	643.1	643.1	644.8	646.1	648.0
35°	659.1	645.5	635.0	624.6	617.8	619.3	620.4	621.4	624.0	627.2	629.3
37.5°	625.9	614.1	603.2	595.0	591.9	594.7	597.2	599.4	602.5	604.9	607.0
40°	602.0	593.1	582.7	575.3	576.4	578.0	580.1	582.7	585.3	586.9	589.0
42.5°	579.8	570.5	562.6	556.5	558.0	560.0	561.2	562.6	565.6	568.4	569.7
45°	546.0	538.7	531.4	527.7	528.8	529.8	530.8	532.4	535.0	537.1	537.7
47.5°	508.0	502.9	498.0	494.4	496.1	495.7	497.0	500.4	501.2	502.5	505.4
50°	483.7	479.0	473.3	472.2	472.2	472.2	472.7	476.9	476.9	479.0	481.1
52.5°	456.9	453.9	450.2	448.3	447.5	447.5	449.7	451.8	452.6	455.6	457.7
55°	417.2	414.1	411.0	409.4	408.3	409.4	413.6	414.6	417.2	418.8	420.4
57.5°	375.9	373.5	371.0	370.1	369.9	371.3	373.6	376.7	377.4	382.2	384.6
60°	348.7	345.0	342.9	342.9	341.9	346.6	345.5	350.8	351.8	354.9	358.6
62.5°	320.6	315.7	314.8	314.8	316.3	317.7	319.1	321.4	324.2	328.1	331.0
65°	275.4	272.8	276.4	275.9	274.8	278.0	278.0	280.6	283.7	287.4	293.2
67.5°	232.5	231.2	231.5	231.5	233.1	234.9	236.3	238.6	242.4	246.3	250.0
70°	203.6	205.2	202.6	204.7	206.3	206.8	207.8	211.0	215.2	217.8	222.0
72.5°	175.6	175.5	175.8	176.6	178.2	179.1	180.2	183.8	188.4	190.6	193.9
75°	135.1	134.5	136.1	136.1	138.7	139.8	140.8	142.4	146.6	149.7	152.3
77.5°	98.6	99.3	98.9	100.7	100.0	100.2	103.4	105.0	105.4	111.6	113.0
80°	74.3	75.4	75.9	76.4	77.0	75.9	79.6	81.1	81.1	84.8	87.4
82.5°	53.4	54.0	55.4	55.9	56.0	57.1	57.4	58.5	59.8	61.4	64.8
85°	26.7	28.3	28.8	28.3	28.8	27.7	29.3	29.8	30.4	30.4	30.4
87.5°	9.6	10.3	10.2	11.0	10.9	11.6	11.5	10.8	10.9	12.3	10.8
90°	6.3	7.4	9.1	10.8	12.5	14.3	13.7	14.3	14.8	15.4	16.5
92.5°	24.5	33.0	47.9	72.4	96.5	87.7	66.2	48.0	38.1	33.7	30.7
95°	51.9	74.1	122.6	207.6	301.2	338.2	274.3	205.3	139.2	108.9	88.4
97.5°	61.6	85.7	132.0	227.8	383.7	524.2	560.8	511.9	410.0	336.4	268.2
100°	68.4	90.7	130.6	215.0	365.0	540.1	652.5	672.5	626.3	559.5	478.5
102.5°	76.2	96.6	132.4	204.1	337.7	510.5	657.1	725.9	724.4	685.5	634.1
105°	89.0	106.7	137.5	196.2	304.0	458.6	622.3	741.5	798.5	809.4	794.5
107.5°	103.4	119.8	146.8	195.6	282.6	412.7	561.4	696.5	789.2	839.1	859.4
110°	112.9	128.9	154.6	197.9	274.3	386.7	523.0	653.6	758.6	830.5	870.4



TEST NUMBER: P331966

CATALOG NUMBER: S123DIP-S775D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	123.0	138.5	162.3	202.5	269.8	369.4	489.7	611.2	718.4	799.0	850.3
115°	138.0	153.4	175.1	209.9	268.1	350.8	449.5	555.0	654.2	738.1	800.2
117.5°	153.0	167.2	188.7	219.7	269.1	339.8	425.2	514.2	599.9	675.2	738.3
120°	162.6	176.8	197.3	227.0	270.9	334.8	412.4	492.8	569.8	638.2	695.9
122.5°	171.2	186.4	206.5	233.9	274.1	331.6	401.9	475.9	545.6	609.0	662.5
125°	184.2	199.6	219.6	244.7	278.9	327.4	388.4	453.4	515.6	570.4	616.0
127.5°	196.3	211.7	231.0	253.6	284.4	325.3	376.6	433.8	489.3	538.7	580.2
130°	203.6	219.0	237.8	259.5	288.0	324.0	370.2	421.5	472.8	519.0	557.8
132.5°	210.5	225.4	243.8	265.0	290.8	323.5	364.2	410.1	457.3	500.3	537.3
135°	219.6	235.0	252.7	272.1	294.9	322.8	356.5	394.7	435.2	472.3	504.8
137.5°	227.6	241.8	258.8	277.3	297.6	321.6	349.8	380.7	413.9	445.8	474.0
140°	232.1	246.4	262.9	280.1	299.4	321.1	345.6	372.5	401.5	428.9	453.4
142.5°	236.7	250.1	266.1	282.8	300.8	320.2	342.0	364.7	389.7	413.4	434.7
145°	242.4	255.5	270.4	285.8	301.7	318.8	337.1	355.3	374.2	392.4	409.0
147.5°	249.0	260.2	273.8	287.6	301.7	316.7	332.3	347.7	362.6	377.4	389.1
150°	252.7	262.9	276.1	288.0	301.7	314.8	329.1	342.2	355.3	367.3	378.2
152.5°	256.3	266.1	277.4	289.0	300.4	312.6	325.5	337.2	348.5	359.1	368.1
155°	262.4	270.4	280.1	289.2	298.9	308.6	320.0	329.7	338.8	347.4	354.2
157.5°	267.6	273.8	281.5	289.8	296.9	305.0	313.8	321.7	329.3	336.0	341.3
160°	270.4	276.1	282.9	289.8	296.0	302.3	309.7	317.1	323.4	329.1	333.1
162.5°	272.6	277.4	283.4	289.3	294.2	299.6	305.6	311.7	317.0	322.3	325.8
165°	275.5	279.5	284.0	288.0	291.5	295.5	300.0	304.6	308.0	312.0	314.8
167.5°	278.1	280.6	283.9	287.1	288.7	291.3	294.7	298.4	301.0	303.3	305.4
170°	279.5	280.6	283.5	285.8	286.9	288.6	291.5	294.3	296.0	298.3	299.4
172.5°	280.4	281.1	283.5	285.3	285.5	286.3	288.3	290.7	291.9	293.7	294.4
175°	281.2	281.8	282.9	284.0	283.5	283.5	284.6	285.8	286.3	287.5	287.5
177.5°	281.8	281.8	282.2	283.1	282.2	281.8	282.2	282.7	283.1	283.6	283.6
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



TEST NUMBER: P331966

CATALOG NUMBER: S123DIP-S775D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5
2.5°	1033.2	1032.8	1035.7	1033.6	1035.7	1032.8	1033.2	1036.1	1037.0	1037.4	1037.4
5°	961.7	963.3	958.0	958.0	958.0	963.3	961.7	964.8	967.5	969.6	972.7
7.5°	898.0	895.7	895.9	893.1	895.9	895.7	898.0	900.6	903.9	908.5	912.8
10°	859.1	856.0	854.9	855.4	854.9	856.0	859.1	865.4	867.5	871.7	876.4
12.5°	826.8	826.2	819.3	819.4	819.3	826.2	826.8	828.5	833.1	841.9	847.5
15°	788.9	779.0	777.9	781.1	777.9	779.0	788.9	788.9	791.0	797.8	801.0
17.5°	750.9	745.7	746.0	744.4	746.0	745.7	750.9	751.8	753.4	759.0	763.2
20°	730.8	727.7	727.2	723.5	727.2	727.7	730.8	730.8	732.9	735.5	739.7
22.5°	712.4	711.4	711.7	707.6	711.7	711.4	712.4	713.7	715.8	717.5	720.5
25°	689.5	692.1	690.0	690.0	690.0	692.1	689.5	690.0	690.5	693.1	695.2
27.5°	674.0	673.9	672.8	672.8	672.8	673.9	674.0	672.7	672.1	671.2	670.7
30°	662.3	661.7	662.8	662.8	662.8	661.7	662.3	660.2	659.1	658.6	656.5
32.5°	650.5	651.3	651.5	651.9	651.5	651.3	650.5	648.0	646.1	644.8	643.1
35°	632.4	632.9	634.5	633.5	634.5	632.9	632.4	629.3	627.2	624.0	621.4
37.5°	607.9	610.3	609.8	610.6	609.8	610.3	607.9	607.0	604.9	602.5	599.4
40°	589.5	591.1	590.5	590.5	590.5	591.1	589.5	589.0	586.9	585.3	582.7
42.5°	570.6	571.8	570.4	569.6	570.4	571.8	570.6	569.7	568.4	565.6	562.6
45°	539.7	538.7	540.3	538.2	540.3	538.7	539.7	537.7	537.1	535.0	532.4
47.5°	505.2	506.2	506.7	508.2	506.7	506.2	505.2	505.4	502.5	501.2	500.4
50°	482.2	485.3	485.3	484.8	485.3	485.3	482.2	481.1	479.0	476.9	476.9
52.5°	459.5	461.0	463.1	463.0	463.1	461.0	459.5	457.7	455.6	452.6	451.8
55°	424.6	425.6	426.7	427.2	426.7	425.6	424.6	420.4	418.8	417.2	414.6
57.5°	388.3	387.9	390.4	391.2	390.4	387.9	388.3	384.6	382.2	377.4	376.7
60°	362.8	362.8	367.0	368.6	367.0	362.8	362.8	358.6	354.9	351.8	350.8
62.5°	335.6	337.3	341.4	339.2	341.4	337.3	335.6	331.0	328.1	324.2	321.4
65°	295.8	300.0	299.5	301.5	299.5	300.0	295.8	293.2	287.4	283.7	280.6
67.5°	254.2	256.8	260.6	260.9	260.6	256.8	254.2	250.0	246.3	242.4	238.6
70°	226.2	228.8	230.9	232.4	230.9	228.8	226.2	222.0	217.8	215.2	211.0
72.5°	198.9	200.3	205.3	203.1	205.3	200.3	198.9	193.9	190.6	188.4	183.8
75°	156.0	159.7	162.8	161.2	162.8	159.7	156.0	152.3	149.7	146.6	142.4
77.5°	115.4	119.0	120.5	119.2	120.5	119.0	115.4	113.0	111.6	105.4	105.0
80°	91.1	90.6	93.7	93.2	93.7	90.6	91.1	87.4	84.8	81.1	81.1
82.5°	66.8	66.3	67.7	68.1	67.7	66.3	66.8	64.8	61.4	59.8	58.5
85°	32.5	34.0	31.9	31.4	31.9	34.0	32.5	30.4	30.4	30.4	29.8
87.5°	10.7	10.8	10.5	10.0	10.5	10.8	10.7	10.8	12.3	10.9	10.8
90°	16.0	16.5	17.1	16.5	17.1	16.5	16.0	16.5	15.4	14.8	14.3
92.5°	29.7	27.9	28.5	27.5	28.5	27.9	29.7	30.7	33.7	38.1	48.0
95°	77.6	72.4	68.4	66.2	68.4	72.4	77.6	88.4	108.9	139.2	205.3
97.5°	226.1	200.4	185.0	180.1	185.0	200.4	226.1	268.2	336.4	410.0	511.9
100°	420.9	379.3	357.1	357.6	357.1	379.3	420.9	478.5	559.5	626.3	672.5
102.5°	589.3	556.3	537.7	524.6	537.7	556.3	589.3	634.1	685.5	724.4	725.9
105°	768.3	746.6	728.4	725.5	728.4	746.6	768.3	794.5	809.4	798.5	741.5
107.5°	859.9	852.6	846.4	841.2	846.4	852.6	859.9	859.4	839.1	789.2	696.5
110°	886.4	890.9	889.8	888.6	889.8	890.9	886.4	870.4	830.5	758.6	653.6



TEST NUMBER: P331966

CATALOG NUMBER: S123DIP-S775D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	879.5	893.7	898.0	898.2	898.0	893.7	879.5	850.3	799.0	718.4	611.2
115°	843.0	868.1	879.5	882.4	879.5	868.1	843.0	800.2	738.1	654.2	555.0
117.5°	782.9	811.6	828.1	831.9	828.1	811.6	782.9	738.3	675.2	599.9	514.2
120°	740.9	772.9	786.5	790.0	786.5	772.9	740.9	695.9	638.2	569.8	492.8
122.5°	702.6	731.3	746.4	750.7	746.4	731.3	702.6	662.5	609.0	545.6	475.9
125°	652.5	677.6	691.9	695.9	691.9	677.6	652.5	616.0	570.4	515.6	453.4
127.5°	612.7	634.1	647.0	650.7	647.0	634.1	612.7	580.2	538.7	489.3	433.8
130°	588.1	608.6	620.6	625.1	620.6	608.6	588.1	557.8	519.0	472.8	421.5
132.5°	565.7	586.2	596.8	600.0	596.8	586.2	565.7	537.3	500.3	457.3	410.1
135°	532.7	549.8	560.1	564.1	560.1	549.8	532.7	504.8	472.3	435.2	394.7
137.5°	497.5	514.8	523.5	526.1	523.5	514.8	497.5	474.0	445.8	413.9	380.7
140°	475.1	491.1	500.2	499.6	500.2	491.1	475.1	453.4	428.9	401.5	372.5
142.5°	453.2	467.4	475.6	475.0	475.6	467.4	453.2	434.7	413.4	389.7	364.7
145°	423.2	435.2	439.8	440.9	439.8	435.2	423.2	409.0	392.4	374.2	355.3
147.5°	399.9	408.0	412.4	412.8	412.4	408.0	399.9	389.1	377.4	362.6	347.7
150°	386.7	393.0	396.4	396.4	396.4	393.0	386.7	378.2	367.3	355.3	342.2
152.5°	374.8	380.7	382.7	382.7	382.7	380.7	374.8	368.1	359.1	348.5	337.2
155°	359.3	363.9	365.0	365.6	365.0	363.9	359.3	354.2	347.4	338.8	329.7
157.5°	345.8	349.2	350.1	350.0	350.1	349.2	345.8	341.3	336.0	329.3	321.7
160°	337.1	340.5	340.5	339.9	340.5	340.5	337.1	333.1	329.1	323.4	317.1
162.5°	328.4	331.4	331.4	330.8	331.4	331.4	328.4	325.8	322.3	317.0	311.7
165°	317.1	319.4	318.8	318.8	318.8	319.4	317.1	314.8	312.0	308.0	304.6
167.5°	306.4	308.0	307.4	307.4	307.4	308.0	306.4	305.4	303.3	301.0	298.4
170°	300.0	301.2	300.6	300.6	300.6	301.2	300.0	299.4	298.3	296.0	294.3
172.5°	294.5	295.7	294.7	294.2	294.7	295.7	294.5	294.4	293.7	291.9	290.7
175°	287.5	288.0	287.5	286.9	287.5	288.0	287.5	287.5	287.5	286.3	285.8
177.5°	283.1	283.6	282.7	282.7	282.7	283.6	283.1	283.6	283.6	283.1	282.7
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



TEST NUMBER: P331966

CATALOG NUMBER: S123DIP-S775D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5
2.5°	1036.1	1036.1	1044.1	1049.1	1055.4	1059.6	1062.5	1065.5	1070.5	1077.2	1084.7
5°	976.9	979.0	990.5	1002.0	1013.0	1022.4	1030.3	1039.7	1051.2	1065.4	1081.1
7.5°	919.5	927.6	939.2	953.2	968.6	982.3	996.3	1011.8	1028.0	1048.8	1070.8
10°	882.7	891.6	905.7	923.5	939.7	955.9	973.2	990.0	1010.4	1035.0	1063.3
12.5°	850.4	858.9	873.4	892.9	908.3	926.2	946.0	967.8	990.7	1020.3	1052.4
15°	805.7	815.6	833.4	842.9	866.4	887.9	906.2	937.6	966.9	997.3	1034.5
17.5°	769.0	774.6	789.0	806.5	824.1	848.2	872.2	898.4	927.6	964.7	1011.2
20°	743.9	748.6	764.3	782.7	801.5	823.5	845.0	871.1	904.1	943.4	993.6
22.5°	725.1	730.2	740.5	760.0	777.6	795.9	817.3	848.5	883.6	922.0	976.5
25°	697.8	701.0	707.8	723.5	739.2	759.6	778.5	807.8	843.9	888.9	943.4
27.5°	672.0	675.0	680.7	692.0	706.6	723.2	743.7	768.6	805.3	854.2	912.0
30°	656.5	657.0	662.3	672.7	685.3	698.9	717.7	746.0	780.6	830.3	891.0
32.5°	643.1	641.1	644.7	652.6	664.8	678.4	693.9	721.7	755.0	803.9	866.3
35°	620.4	619.3	617.8	624.6	635.0	645.5	659.1	680.1	717.7	763.3	828.7
37.5°	597.2	594.7	591.9	595.0	603.2	614.1	625.9	644.6	677.0	727.2	789.8
40°	580.1	578.0	576.4	575.3	582.7	593.1	602.0	619.8	650.2	697.8	759.6
42.5°	561.2	560.0	558.0	556.5	562.6	570.5	579.8	595.6	625.9	670.6	729.1
45°	530.8	529.8	528.8	527.7	531.4	538.7	546.0	557.5	583.7	627.2	680.1
47.5°	497.0	495.7	496.1	494.4	498.0	502.9	508.0	520.4	545.5	580.6	619.2
50°	472.7	472.2	472.2	472.2	473.3	479.0	483.7	493.2	516.2	551.3	579.0
52.5°	449.7	447.5	447.5	448.3	450.2	453.9	456.9	467.2	487.3	516.1	541.3
55°	413.6	409.4	408.3	409.4	411.0	414.1	417.2	425.6	442.9	464.4	479.0
57.5°	373.6	371.3	369.9	370.1	371.0	373.5	375.9	385.0	398.6	409.8	419.2
60°	345.5	346.6	341.9	342.9	342.9	345.0	348.7	354.4	365.9	373.8	383.2
62.5°	319.1	317.7	316.3	314.8	314.8	315.7	320.6	325.1	334.9	339.0	346.4
65°	278.0	278.0	274.8	275.9	276.4	272.8	275.4	280.6	286.9	288.5	295.3
67.5°	236.3	234.9	233.1	231.5	231.5	231.2	232.5	235.2	239.9	240.4	245.6
70°	207.8	206.8	206.3	204.7	202.6	205.2	203.6	206.3	208.9	209.4	212.5
72.5°	180.2	179.1	178.2	176.6	175.8	175.5	175.6	178.6	180.4	179.7	183.2
75°	140.8	139.8	138.7	136.1	136.1	134.5	135.1	137.2	139.3	137.7	140.8
77.5°	103.4	100.2	100.0	100.7	98.9	99.3	98.6	98.3	99.3	99.4	102.2
80°	79.6	75.9	77.0	76.4	75.9	75.4	74.3	74.9	75.4	75.9	77.5
82.5°	57.4	57.1	56.0	55.9	55.4	54.0	53.4	54.3	54.9	54.6	55.7
85°	29.3	27.7	28.8	28.3	28.8	28.3	26.7	26.7	27.7	27.2	28.3
87.5°	11.5	11.6	10.9	11.0	10.2	10.3	9.6	9.8	9.9	9.7	10.3
90°	13.7	14.3	12.5	10.8	9.1	7.4	6.3	5.1	3.4	2.3	1.1
92.5°	66.2	87.7	96.5	72.4	47.9	33.0	24.5	19.7	15.3	10.5	7.1
95°	274.3	338.2	301.2	207.6	122.6	74.1	51.9	37.1	27.4	21.1	19.4
97.5°	560.8	524.2	383.7	227.8	132.0	85.7	61.6	47.0	38.6	33.7	33.1
100°	652.5	540.1	365.0	215.0	130.6	90.7	68.4	54.8	46.8	42.8	42.2
102.5°	657.1	510.5	337.7	204.1	132.4	96.6	76.2	63.9	56.4	52.8	51.8
105°	622.3	458.6	304.0	196.2	137.5	106.7	89.0	78.1	71.3	67.9	66.2
107.5°	561.4	412.7	282.6	195.6	146.8	119.8	103.4	93.2	86.5	83.2	81.4
110°	523.0	386.7	274.3	197.9	154.6	128.9	112.9	103.2	97.0	94.1	92.4



TEST NUMBER: P331966

CATALOG NUMBER: S123DIP-S775D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	489.7	369.4	269.8	202.5	162.3	138.5	123.0	113.3	107.0	104.2	102.4
115°	449.5	350.8	268.1	209.9	175.1	153.4	138.0	128.3	122.6	119.2	116.9
117.5°	425.2	339.8	269.1	219.7	188.7	167.2	153.0	142.1	136.9	134.0	131.4
120°	412.4	334.8	270.9	227.0	197.3	176.8	162.6	151.7	146.0	143.2	141.5
122.5°	401.9	331.6	274.1	233.9	206.5	186.4	171.2	160.8	154.7	151.8	150.1
125°	388.4	327.4	278.9	244.7	219.6	199.6	184.2	173.4	167.1	163.7	162.6
127.5°	376.6	325.3	284.4	253.6	231.0	211.7	196.3	184.3	178.0	173.7	172.0
130°	370.2	324.0	288.0	259.5	237.8	219.0	203.6	191.6	184.8	179.7	178.0
132.5°	364.2	323.5	290.8	265.0	243.8	225.4	210.5	198.5	190.3	184.7	182.5
135°	356.5	322.8	294.9	272.1	252.7	235.0	219.6	207.6	199.1	192.8	190.5
137.5°	349.8	321.6	297.6	277.3	258.8	241.8	227.6	215.7	206.6	200.4	198.0
140°	345.6	321.1	299.4	280.1	262.9	246.4	232.1	220.7	211.6	205.9	203.1
142.5°	342.0	320.2	300.8	282.8	266.1	250.1	236.7	225.3	217.1	210.9	208.5
145°	337.1	318.8	301.7	285.8	270.4	255.5	242.4	232.7	224.2	219.0	217.3
147.5°	332.3	316.7	301.7	287.6	273.8	260.2	249.0	239.7	232.3	227.2	226.2
150°	329.1	314.8	301.7	288.0	276.1	262.9	252.7	244.7	237.3	232.7	232.1
152.5°	325.5	312.6	300.4	289.0	277.4	266.1	256.3	249.3	242.8	238.2	238.1
155°	320.0	308.6	298.9	289.2	280.1	270.4	262.4	256.1	250.4	247.0	247.0
157.5°	313.8	305.0	296.9	289.8	281.5	273.8	267.6	262.3	257.2	254.5	254.0
160°	309.7	302.3	296.0	289.8	282.9	276.1	270.4	266.4	261.8	259.5	259.5
162.5°	305.6	299.6	294.2	289.3	283.4	277.4	272.6	269.1	265.5	263.6	263.6
165°	300.0	295.5	291.5	288.0	284.0	279.5	275.5	273.2	270.4	269.2	269.8
167.5°	294.7	291.3	288.7	287.1	283.9	280.6	278.1	276.5	274.3	273.8	274.5
170°	291.5	288.6	286.9	285.8	283.5	280.6	279.5	278.3	276.6	276.1	277.2
172.5°	288.3	286.3	285.5	285.3	283.5	281.1	280.4	279.7	278.5	278.3	279.0
175°	284.6	283.5	283.5	284.0	282.9	281.8	281.2	281.2	280.1	280.6	281.2
177.5°	282.2	281.8	282.2	283.1	282.2	281.8	281.8	281.8	281.3	281.8	282.2
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



TEST NUMBER: P331966

CATALOG NUMBER: S123DIP-S775D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5
2.5°	1087.2	1089.3	1096.5	1101.5	1107.3	1110.7	1114.0	1116.6	1119.9	1120.7	1132.9
5°	1092.1	1102.5	1120.9	1134.5	1151.2	1169.5	1182.1	1187.9	1203.0	1215.6	1240.7
7.5°	1090.7	1113.0	1140.6	1169.3	1200.1	1228.6	1253.3	1282.6	1303.5	1334.8	1365.6
10°	1089.4	1119.3	1154.9	1191.5	1234.5	1274.2	1309.8	1349.6	1382.6	1426.1	1463.2
12.5°	1085.7	1121.8	1171.2	1214.6	1266.7	1321.6	1374.3	1425.4	1454.6	1527.0	1561.2
15°	1076.4	1119.3	1181.1	1247.0	1318.7	1383.7	1450.7	1504.1	1590.4	1653.8	1694.1
17.5°	1058.6	1118.7	1191.9	1271.5	1358.7	1444.3	1520.2	1601.2	1692.8	1769.5	1851.2
20°	1050.2	1116.1	1197.8	1285.8	1376.3	1473.2	1559.6	1656.9	1756.9	1832.3	1937.0
22.5°	1034.7	1109.4	1197.4	1295.4	1392.2	1492.4	1593.5	1691.7	1807.2	1911.1	2010.7
25°	1009.3	1093.1	1184.2	1293.6	1407.2	1507.7	1628.7	1759.0	1879.4	2012.9	2112.4
27.5°	982.7	1072.2	1163.5	1265.2	1387.4	1506.7	1658.8	1806.1	1953.4	2068.6	2142.2
30°	962.2	1049.1	1143.4	1246.0	1366.9	1508.8	1678.9	1839.6	1983.1	2082.0	2123.4
32.5°	940.0	1028.2	1111.5	1219.2	1348.1	1507.5	1691.5	1859.3	1984.8	2050.6	2042.6
35°	905.2	979.0	1060.1	1163.8	1315.6	1498.3	1698.8	1861.1	1938.1	1923.9	1817.1
37.5°	854.9	917.0	996.9	1110.4	1277.9	1478.9	1684.2	1805.9	1800.9	1685.8	1531.1
40°	823.5	876.4	953.3	1072.7	1248.6	1466.4	1661.1	1740.2	1673.2	1512.4	1327.1
42.5°	782.5	831.1	908.1	1030.8	1216.3	1440.8	1617.1	1640.1	1509.0	1324.0	1154.1
45°	718.8	761.7	841.3	968.0	1168.0	1385.2	1509.8	1453.8	1277.4	1086.3	957.0
47.5°	650.4	695.0	771.6	901.7	1098.0	1301.6	1360.9	1241.8	1060.6	905.7	787.0
50°	607.3	650.2	725.1	856.5	1050.7	1232.9	1257.5	1103.6	937.1	801.0	703.6
52.5°	563.7	604.1	677.7	809.6	995.4	1153.3	1138.1	981.3	828.2	712.2	635.8
55°	498.9	537.1	607.3	730.8	899.9	1025.0	970.1	820.4	693.7	603.6	545.5
57.5°	440.9	477.6	538.1	649.7	796.7	882.7	812.7	686.5	585.8	516.5	473.2
60°	401.5	434.0	491.6	595.2	723.0	788.4	719.3	607.8	523.0	467.5	428.8
62.5°	364.3	392.5	445.9	540.0	650.9	705.9	636.0	541.6	469.4	420.2	387.3
65°	307.8	333.5	380.6	453.9	545.0	581.6	521.4	445.0	389.0	352.3	330.3
67.5°	256.3	278.1	318.8	376.5	443.5	470.2	424.4	365.2	323.0	293.6	276.1
70°	222.0	240.8	272.8	322.5	383.2	403.6	360.7	312.0	281.1	257.6	241.3
72.5°	193.1	206.9	235.9	274.3	325.0	341.2	311.3	268.5	239.7	222.0	209.1
75°	147.1	158.6	177.5	208.4	243.4	252.9	230.3	203.6	184.3	171.7	161.8
77.5°	106.1	114.5	128.2	147.2	171.5	180.0	165.7	147.9	133.8	125.3	119.8
80°	80.1	86.9	98.4	114.1	128.8	133.5	125.1	111.5	101.6	96.9	92.1
82.5°	59.2	63.0	69.9	80.6	90.7	96.2	89.1	80.9	75.6	71.3	69.5
85°	29.8	31.9	35.1	39.3	45.5	47.6	45.0	42.9	39.8	37.2	37.2
87.5°	11.3	11.6	13.2	14.2	16.1	17.7	17.7	17.2	17.1	16.6	16.3
90°	2.3	3.4	5.1	6.3	7.4	9.1	10.8	12.5	14.3	13.7	14.3
92.5°	10.5	15.3	19.7	24.5	33.0	47.9	72.4	96.5	87.7	66.2	48.0
95°	21.1	27.4	37.1	51.9	74.1	122.6	207.6	301.2	338.2	274.3	205.3
97.5°	33.7	38.6	47.0	61.6	85.7	132.0	227.8	383.7	524.2	560.8	511.9
100°	42.8	46.8	54.8	68.4	90.7	130.6	215.0	365.0	540.1	652.5	672.5
102.5°	52.8	56.4	63.9	76.2	96.6	132.4	204.1	337.7	510.5	657.1	725.9
105°	67.9	71.3	78.1	89.0	106.7	137.5	196.2	304.0	458.6	622.3	741.5
107.5°	83.2	86.5	93.2	103.4	119.8	146.8	195.6	282.6	412.7	561.4	696.5
110°	94.1	97.0	103.2	112.9	128.9	154.6	197.9	274.3	386.7	523.0	653.6





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	104.2	107.0	113.3	123.0	138.5	162.3	202.5	269.8	369.4	489.7	611.2
115°	119.2	122.6	128.3	138.0	153.4	175.1	209.9	268.1	350.8	449.5	555.0
117.5°	134.0	136.9	142.1	153.0	167.2	188.7	219.7	269.1	339.8	425.2	514.2
120°	143.2	146.0	151.7	162.6	176.8	197.3	227.0	270.9	334.8	412.4	492.8
122.5°	151.8	154.7	160.8	171.2	186.4	206.5	233.9	274.1	331.6	401.9	475.9
125°	163.7	167.1	173.4	184.2	199.6	219.6	244.7	278.9	327.4	388.4	453.4
127.5°	173.7	178.0	184.3	196.3	211.7	231.0	253.6	284.4	325.3	376.6	433.8
130°	179.7	184.8	191.6	203.6	219.0	237.8	259.5	288.0	324.0	370.2	421.5
132.5°	184.7	190.3	198.5	210.5	225.4	243.8	265.0	290.8	323.5	364.2	410.1
135°	192.8	199.1	207.6	219.6	235.0	252.7	272.1	294.9	322.8	356.5	394.7
137.5°	200.4	206.6	215.7	227.6	241.8	258.8	277.3	297.6	321.6	349.8	380.7
140°	205.9	211.6	220.7	232.1	246.4	262.9	280.1	299.4	321.1	345.6	372.5
142.5°	210.9	217.1	225.3	236.7	250.1	266.1	282.8	300.8	320.2	342.0	364.7
145°	219.0	224.2	232.7	242.4	255.5	270.4	285.8	301.7	318.8	337.1	355.3
147.5°	227.2	232.3	239.7	249.0	260.2	273.8	287.6	301.7	316.7	332.3	347.7
150°	232.7	237.3	244.7	252.7	262.9	276.1	288.0	301.7	314.8	329.1	342.2
152.5°	238.2	242.8	249.3	256.3	266.1	277.4	289.0	300.4	312.6	325.5	337.2
155°	247.0	250.4	256.1	262.4	270.4	280.1	289.2	298.9	308.6	320.0	329.7
157.5°	254.5	257.2	262.3	267.6	273.8	281.5	289.8	296.9	305.0	313.8	321.7
160°	259.5	261.8	266.4	270.4	276.1	282.9	289.8	296.0	302.3	309.7	317.1
162.5°	263.6	265.5	269.1	272.6	277.4	283.4	289.3	294.2	299.6	305.6	311.7
165°	269.2	270.4	273.2	275.5	279.5	284.0	288.0	291.5	295.5	300.0	304.6
167.5°	273.8	274.3	276.5	278.1	280.6	283.9	287.1	288.7	291.3	294.7	298.4
170°	276.1	276.6	278.3	279.5	280.6	283.5	285.8	286.9	288.6	291.5	294.3
172.5°	278.3	278.5	279.7	280.4	281.1	283.5	285.3	285.5	286.3	288.3	290.7
175°	280.6	280.1	281.2	281.2	281.8	282.9	284.0	283.5	283.5	284.6	285.8
177.5°	281.8	281.3	281.8	281.8	281.8	282.2	283.1	282.2	281.8	282.2	282.7
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5
2.5°	1137.1	1137.5	1142.1	1145.5	1143.8	1145.9	1146.7
5°	1242.3	1261.2	1271.1	1278.4	1279.0	1279.5	1283.7
7.5°	1391.5	1411.7	1426.5	1448.9	1455.6	1463.2	1461.0
10°	1500.4	1530.2	1555.9	1569.5	1584.2	1605.6	1588.4
12.5°	1602.2	1655.1	1694.1	1715.3	1729.1	1733.4	1724.9
15°	1770.0	1839.1	1876.3	1875.2	1922.4	1942.8	1910.8
17.5°	1923.9	1987.7	2038.8	2065.0	2104.2	2112.9	2108.9
20°	2018.2	2087.8	2127.6	2172.6	2193.0	2211.3	2214.5
22.5°	2099.4	2161.9	2204.6	2242.1	2259.2	2267.9	2273.1
25°	2183.1	2232.3	2257.9	2271.0	2275.7	2274.7	2267.9
27.5°	2177.3	2181.1	2152.8	2125.1	2100.3	2072.3	2062.7
30°	2120.8	2076.8	1998.3	1953.8	1888.3	1836.5	1857.4
32.5°	1972.1	1884.6	1796.4	1699.1	1618.6	1595.7	1572.6
35°	1683.1	1529.2	1439.2	1334.4	1292.6	1250.7	1221.9
37.5°	1361.7	1242.6	1135.8	1067.3	1025.4	998.9	984.6
40°	1177.4	1070.1	982.1	926.6	894.7	864.9	860.7
42.5°	1030.4	930.6	864.4	820.2	789.6	776.9	767.7
45°	843.9	774.3	729.8	698.4	678.0	670.1	659.6
47.5°	714.3	665.1	631.7	610.3	594.9	589.1	588.2
50°	641.8	601.0	576.4	559.6	547.6	545.5	537.1
52.5°	587.4	552.0	532.8	518.2	509.5	503.6	501.1
55°	509.9	486.3	469.1	460.7	453.9	448.1	448.1
57.5°	446.1	426.5	415.0	407.9	405.8	401.7	399.1
60°	406.8	390.0	381.1	374.8	370.7	371.2	366.5
62.5°	368.2	357.4	348.9	342.6	337.6	337.7	338.0
65°	313.6	305.2	298.9	296.8	293.7	290.0	291.1
67.5°	265.7	257.9	253.0	249.4	248.4	246.4	249.4
70°	231.4	225.6	222.0	218.8	217.8	218.3	220.9
72.5°	200.0	195.9	193.5	192.0	189.7	189.8	191.6
75°	157.1	153.9	151.8	150.2	149.7	149.7	149.7
77.5°	115.4	114.7	113.7	111.4	111.5	112.1	112.2
80°	91.1	89.5	89.0	88.0	86.4	85.3	88.0
82.5°	68.1	66.5	66.0	65.8	63.3	63.1	65.3
85°	36.6	35.1	35.6	35.1	35.1	34.6	34.6
87.5°	15.9	15.6	15.5	15.8	15.5	15.1	15.9
90°	14.8	15.4	16.5	16.0	16.5	17.1	16.5
92.5°	38.1	33.7	30.7	29.7	27.9	28.5	27.5
95°	139.2	108.9	88.4	77.6	72.4	68.4	66.2
97.5°	410.0	336.4	268.2	226.1	200.4	185.0	180.1
100°	626.3	559.5	478.5	420.9	379.3	357.1	357.6
102.5°	724.4	685.5	634.1	589.3	556.3	537.7	524.6
105°	798.5	809.4	794.5	768.3	746.6	728.4	725.5
107.5°	789.2	839.1	859.4	859.9	852.6	846.4	841.2
110°	758.6	830.5	870.4	886.4	890.9	889.8	888.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	718.4	799.0	850.3	879.5	893.7	898.0	898.2
115°	654.2	738.1	800.2	843.0	868.1	879.5	882.4
117.5°	599.9	675.2	738.3	782.9	811.6	828.1	831.9
120°	569.8	638.2	695.9	740.9	772.9	786.5	790.0
122.5°	545.6	609.0	662.5	702.6	731.3	746.4	750.7
125°	515.6	570.4	616.0	652.5	677.6	691.9	695.9
127.5°	489.3	538.7	580.2	612.7	634.1	647.0	650.7
130°	472.8	519.0	557.8	588.1	608.6	620.6	625.1
132.5°	457.3	500.3	537.3	565.7	586.2	596.8	600.0
135°	435.2	472.3	504.8	532.7	549.8	560.1	564.1
137.5°	413.9	445.8	474.0	497.5	514.8	523.5	526.1
140°	401.5	428.9	453.4	475.1	491.1	500.2	499.6
142.5°	389.7	413.4	434.7	453.2	467.4	475.6	475.0
145°	374.2	392.4	409.0	423.2	435.2	439.8	440.9
147.5°	362.6	377.4	389.1	399.9	408.0	412.4	412.8
150°	355.3	367.3	378.2	386.7	393.0	396.4	396.4
152.5°	348.5	359.1	368.1	374.8	380.7	382.7	382.7
155°	338.8	347.4	354.2	359.3	363.9	365.0	365.6
157.5°	329.3	336.0	341.3	345.8	349.2	350.1	350.0
160°	323.4	329.1	333.1	337.1	340.5	340.5	339.9
162.5°	317.0	322.3	325.8	328.4	331.4	331.4	330.8
165°	308.0	312.0	314.8	317.1	319.4	318.8	318.8
167.5°	301.0	303.3	305.4	306.4	308.0	307.4	307.4
170°	296.0	298.3	299.4	300.0	301.2	300.6	300.6
172.5°	291.9	293.7	294.4	294.5	295.7	294.7	294.2
175°	286.3	287.5	287.5	287.5	288.0	287.5	286.9
177.5°	283.1	283.6	283.6	283.1	283.6	282.7	282.7
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8

(END OF REPORT)