

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: P331975

Luminaire Tested: **S123DIP-S775D805U835-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331975  
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-S775D805U835-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 805 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

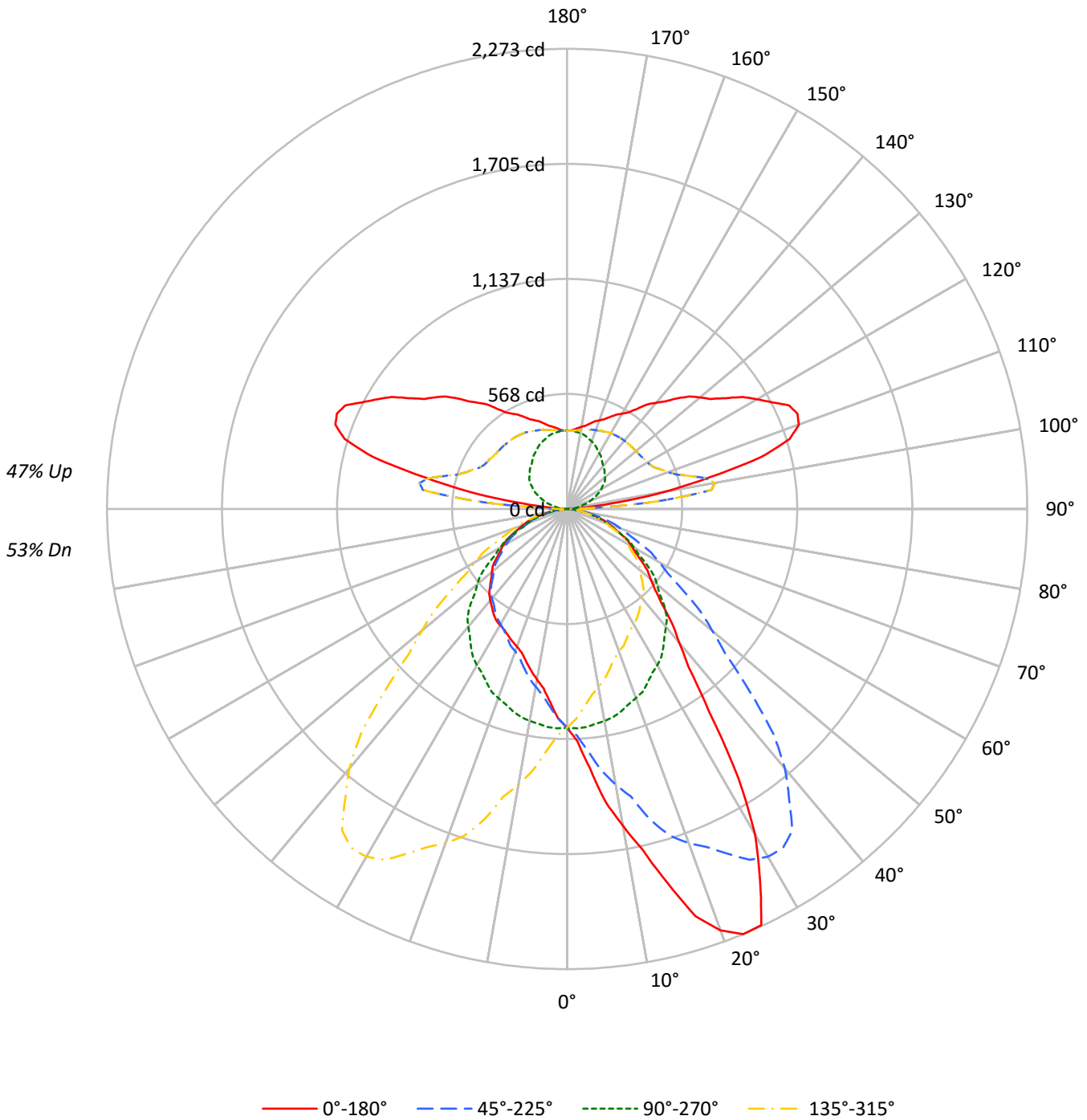
Lumens per Lamp: N/A  
Luminaire Lumens: 6170.0 lumens  
Efficiency: N/A  
Efficacy: 134.4 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 45.9  
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	71	71	71	59	59	59	53
1	99	94	91	87	91	88	84	81	75	73	70	63	62	60	52	51	50	45
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	46	44	43	38
3	82	73	66	60	76	68	62	57	58	54	50	50	46	43	41	39	37	33
4	75	65	57	51	70	60	53	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	30	27	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	28	25	28	24	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	26	23	28	23	20	24	20	18	16
10	48	36	29	24	44	34	27	23	29	24	20	26	21	18	22	18	16	14

**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	1.7
10°-20°	341.3	5.5
20°-30°	572.8	9.3
30°-40°	648.6	10.5
40°-50°	581.7	9.4
50°-60°	469.4	7.6
60°-70°	327.1	5.3
70°-80°	171.9	2.8
80°-90°	45.0	0.7
90°-100°	214.9	3.5
100°-110°	608.6	9.9
110°-120°	598.7	9.7
120°-130°	477.5	7.7
130°-140°	376.5	6.1
140°-150°	281.0	4.6
150°-160°	195.9	3.2
160°-170°	115.1	1.9
170°-180°	37.4	0.6
0°-30°	1020.6	16.5
0°-40°	1669.2	27.1
0°-60°	2720.2	44.1
0°-90°	3264.3	52.9
90°-120°	1422.2	23.1
90°-150°	2557.3	41.4
90°-180°	2906.0	47.1
0°-180°	6170.0	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°	23	2	23	2	23	14
95°	91	27	91	27	91	163
105°	994	91	994	91	994	981
115°	1210	160	1210	160	1210	1175
125°	954	223	954	223	954	864
135°	773	261	773	261	773	600
145°	604	298	604	298	604	384
155°	501	338	501	338	501	234
165°	437	370	437	370	437	125
175°	393	385	393	385	393	38
180°	386	386	386	386	386	



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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°	17.1	16.4	16.7	16.9	16.7	16.8	17.0	17.3	17.6	18.1	18.1
90°	22.7	23.5	22.7	21.9	22.7	21.1	20.3	19.5	18.8	19.5	17.2
92.5°	37.7	39.1	38.3	40.7	42.1	46.1	52.2	65.8	90.7	120.2	132.3
95°	90.7	93.8	99.3	106.3	121.2	149.3	190.8	281.5	376.1	463.6	412.8
97.5°	246.9	253.6	274.7	309.9	367.6	461.1	562.0	701.6	768.7	718.5	526.0
100°	490.2	489.4	519.9	577.0	655.9	767.0	858.4	921.8	894.4	740.4	500.4
102.5°	719.1	737.1	762.6	807.8	869.2	939.6	992.9	994.9	900.7	699.7	462.8
105°	994.5	998.4	1023.4	1053.1	1089.1	1109.4	1094.5	1016.4	853.0	628.6	416.7
107.5°	1153.0	1160.2	1168.7	1178.7	1178.0	1150.2	1081.7	954.8	769.5	565.7	387.3
110°	1218.1	1219.6	1221.2	1214.9	1193.1	1138.3	1039.8	896.0	716.9	530.1	376.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1231.2	1230.9	1225.0	1205.6	1165.5	1095.2	984.8	837.8	671.3	506.3	369.8
115°	1209.5	1205.6	1189.9	1155.5	1096.9	1011.7	896.7	760.7	616.1	480.8	367.5
117.5°	1140.4	1135.0	1112.5	1073.1	1012.0	925.5	822.3	704.9	582.8	465.8	368.9
120°	1082.8	1078.1	1059.4	1015.6	953.8	874.9	781.0	675.5	565.3	458.9	371.4
122.5°	1029.0	1023.1	1002.4	963.0	908.2	834.8	747.9	652.4	550.9	454.6	375.7
125°	953.8	948.3	928.8	894.4	844.4	781.8	706.8	621.5	532.4	448.8	382.3
127.5°	891.9	886.9	869.2	839.8	795.3	738.4	670.6	594.7	516.2	446.0	389.8
130°	856.9	850.6	834.2	806.1	764.6	711.5	648.1	577.8	507.4	444.1	394.8
132.5°	822.5	818.1	803.6	775.4	736.5	685.8	626.9	562.1	499.3	443.4	398.6
135°	773.2	767.7	753.7	730.2	691.9	647.3	596.5	541.0	488.6	442.5	404.2
137.5°	721.2	717.6	705.7	681.9	649.7	611.1	567.3	521.8	479.4	440.8	408.0
140°	684.9	685.7	673.1	651.3	621.5	587.9	550.4	510.5	473.8	440.2	410.5
142.5°	651.1	651.9	640.6	621.2	595.9	566.7	534.1	499.9	468.8	438.9	412.3
145°	604.3	602.8	596.5	580.1	560.6	537.9	512.9	487.1	462.1	437.0	413.6
147.5°	565.9	565.3	559.3	548.2	533.4	517.3	497.1	476.6	455.5	434.1	413.6
150°	543.4	543.4	538.7	530.1	518.3	503.5	487.1	469.1	451.1	431.6	413.6
152.5°	524.6	524.6	521.8	513.8	504.6	492.2	477.7	462.2	446.1	428.4	411.7
155°	501.1	500.4	498.8	492.5	485.5	476.1	464.4	451.9	438.6	423.0	409.7
157.5°	479.7	479.9	478.6	473.9	467.8	460.5	451.4	440.9	430.2	418.1	407.0
160°	466.0	466.7	466.7	462.1	456.6	451.1	443.3	434.7	424.5	414.4	405.8
162.5°	453.5	454.2	454.2	450.2	446.6	441.7	434.5	427.2	418.9	410.6	403.3
165°	437.0	437.0	437.8	434.7	431.6	427.7	422.2	417.5	411.2	405.0	399.5
167.5°	421.4	421.4	422.2	420.0	418.6	415.8	412.6	409.0	403.9	399.4	395.8
170°	412.0	412.0	412.8	411.2	410.5	408.9	405.8	403.4	399.5	395.6	393.3
172.5°	403.3	403.9	405.3	403.7	403.6	402.6	400.1	398.4	395.1	392.5	391.4
175°	393.3	394.0	394.8	394.0	394.0	394.0	392.5	391.7	390.1	388.6	388.6
177.5°	387.5	387.5	388.7	388.1	388.7	388.7	388.1	387.5	386.8	386.2	386.8
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



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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°	18.5	18.4	16.7	14.7	13.6	11.8	11.5	10.4	9.8	10.2	10.2
90°	14.9	12.5	10.2	8.6	7.0	4.7	3.1	1.6	3.1	4.7	7.0
92.5°	99.3	65.7	45.2	33.6	27.1	21.0	14.4	9.7	14.4	21.0	27.1
95°	284.6	168.1	101.6	71.1	50.8	37.5	28.9	26.6	28.9	37.5	50.8
97.5°	312.3	180.9	117.4	84.4	64.4	52.9	46.1	45.3	46.1	52.9	64.4
100°	294.7	179.0	124.3	93.8	75.1	64.1	58.6	57.9	58.6	64.1	75.1
102.5°	279.7	181.5	132.4	104.5	87.6	77.2	72.4	71.0	72.4	77.2	87.6
105°	268.9	188.4	146.2	122.0	107.1	97.7	93.0	90.7	93.0	97.7	107.1
107.5°	268.2	201.2	164.2	141.7	127.7	118.5	114.0	111.6	114.0	118.5	127.7
110°	271.3	211.9	176.7	154.8	141.5	132.9	129.0	126.7	129.0	132.9	141.5





TEST NUMBER: P331975

CATALOG NUMBER: S123DIP-S775D805U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	277.5	222.5	189.8	168.6	155.3	146.7	142.8	140.4	142.8	146.7	155.3
115°	287.7	240.0	210.3	189.2	175.9	168.1	163.4	160.3	163.4	168.1	175.9
117.5°	301.2	258.6	229.2	209.7	194.8	187.6	183.7	180.1	183.7	187.6	194.8
120°	311.2	270.5	242.4	222.8	208.0	200.1	196.2	193.9	196.2	200.1	208.0
122.5°	320.5	283.0	255.5	234.7	220.5	212.0	208.1	205.8	208.1	212.0	220.5
125°	335.4	301.0	273.6	252.5	237.7	229.1	224.4	222.8	224.4	229.1	237.7
127.5°	347.6	316.6	290.2	269.1	252.7	243.9	238.1	235.8	238.1	243.9	252.7
130°	355.7	326.0	300.2	279.1	262.7	253.3	246.3	243.9	246.3	253.3	262.7
132.5°	363.2	334.1	309.0	288.5	272.1	260.8	253.2	250.2	253.2	260.8	272.1
135°	372.9	346.3	322.1	301.0	284.6	272.9	264.3	261.1	264.3	272.9	284.6
137.5°	380.1	354.8	331.5	311.9	295.7	283.2	274.7	271.4	274.7	283.2	295.7
140°	383.9	360.4	337.7	318.2	302.6	290.1	282.2	278.3	282.2	290.1	302.6
142.5°	387.6	364.8	342.7	324.5	308.8	297.6	289.1	285.8	289.1	297.6	308.8
145°	391.7	370.6	350.3	332.3	319.0	307.3	300.2	297.9	300.2	307.3	319.0
147.5°	394.2	375.3	356.7	341.3	328.5	318.4	311.5	310.1	311.5	318.4	328.5
150°	394.8	378.4	360.4	346.3	335.4	325.2	319.0	318.2	319.0	325.2	335.4
152.5°	396.1	380.3	364.8	351.3	341.7	332.7	326.5	326.3	326.5	332.7	341.7
155°	396.4	383.9	370.6	359.6	351.0	343.2	338.5	338.5	338.5	343.2	351.0
157.5°	397.2	385.9	375.3	366.8	359.5	352.6	348.8	348.2	348.8	352.6	359.5
160°	397.2	387.8	378.4	370.6	365.1	358.9	355.7	355.7	355.7	358.9	365.1
162.5°	396.5	388.4	380.3	373.7	368.9	363.9	361.4	361.4	361.4	363.9	368.9
165°	394.8	389.3	383.1	377.6	374.5	370.6	369.0	369.8	369.0	370.6	374.5
167.5°	393.6	389.2	384.7	381.2	379.0	376.1	375.3	376.2	375.3	376.1	379.0
170°	391.7	388.6	384.7	383.1	381.5	379.2	378.4	380.0	378.4	379.2	381.5
172.5°	391.1	388.6	385.3	384.3	383.4	381.7	381.5	382.5	381.5	381.7	383.4
175°	389.3	387.8	386.2	385.4	385.4	383.9	384.7	385.4	384.7	383.9	385.4
177.5°	388.1	386.8	386.2	386.2	386.2	385.6	386.2	386.8	386.2	385.6	386.2
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



TEST NUMBER: P331975

CATALOG NUMBER: S123DIP-S775D805U835-4F0-1E-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°	10.1	10.8	10.9	11.8	11.8	12.7	12.5	11.9	12.0	13.4	12.1
90°	8.6	10.2	12.5	14.9	17.2	19.5	18.8	19.5	20.3	21.1	22.7
92.5°	33.6	45.2	65.7	99.3	132.3	120.2	90.7	65.8	52.2	46.1	42.1
95°	71.1	101.6	168.1	284.6	412.8	463.6	376.1	281.5	190.8	149.3	121.2
97.5°	84.4	117.4	180.9	312.3	526.0	718.5	768.7	701.6	562.0	461.1	367.6
100°	93.8	124.3	179.0	294.7	500.4	740.4	894.4	921.8	858.4	767.0	655.9
102.5°	104.5	132.4	181.5	279.7	462.8	699.7	900.7	994.9	992.9	939.6	869.2
105°	122.0	146.2	188.4	268.9	416.7	628.6	853.0	1016.4	1094.5	1109.4	1089.1
107.5°	141.7	164.2	201.2	268.2	387.3	565.7	769.5	954.8	1081.7	1150.2	1178.0
110°	154.8	176.7	211.9	271.3	376.1	530.1	716.9	896.0	1039.8	1138.3	1193.1



TEST NUMBER: P331975

CATALOG NUMBER: S123DIP-S775D805U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	168.6	189.8	222.5	277.5	369.8	506.3	671.3	837.8	984.8	1095.2	1165.5
115°	189.2	210.3	240.0	287.7	367.5	480.8	616.1	760.7	896.7	1011.7	1096.9
117.5°	209.7	229.2	258.6	301.2	368.9	465.8	582.8	704.9	822.3	925.5	1012.0
120°	222.8	242.4	270.5	311.2	371.4	458.9	565.3	675.5	781.0	874.9	953.8
122.5°	234.7	255.5	283.0	320.5	375.7	454.6	550.9	652.4	747.9	834.8	908.2
125°	252.5	273.6	301.0	335.4	382.3	448.8	532.4	621.5	706.8	781.8	844.4
127.5°	269.1	290.2	316.6	347.6	389.8	446.0	516.2	594.7	670.6	738.4	795.3
130°	279.1	300.2	326.0	355.7	394.8	444.1	507.4	577.8	648.1	711.5	764.6
132.5°	288.5	309.0	334.1	363.2	398.6	443.4	499.3	562.1	626.9	685.8	736.5
135°	301.0	322.1	346.3	372.9	404.2	442.5	488.6	541.0	596.5	647.3	691.9
137.5°	311.9	331.5	354.8	380.1	408.0	440.8	479.4	521.8	567.3	611.1	649.7
140°	318.2	337.7	360.4	383.9	410.5	440.2	473.8	510.5	550.4	587.9	621.5
142.5°	324.5	342.7	364.8	387.6	412.3	438.9	468.8	499.9	534.1	566.7	595.9
145°	332.3	350.3	370.6	391.7	413.6	437.0	462.1	487.1	512.9	537.9	560.6
147.5°	341.3	356.7	375.3	394.2	413.6	434.1	455.5	476.6	497.1	517.3	533.4
150°	346.3	360.4	378.4	394.8	413.6	431.6	451.1	469.1	487.1	503.5	518.3
152.5°	351.3	364.8	380.3	396.1	411.7	428.4	446.1	462.2	477.7	492.2	504.6
155°	359.6	370.6	383.9	396.4	409.7	423.0	438.6	451.9	464.4	476.1	485.5
157.5°	366.8	375.3	385.9	397.2	407.0	418.1	430.2	440.9	451.4	460.5	467.8
160°	370.6	378.4	387.8	397.2	405.8	414.4	424.5	434.7	443.3	451.1	456.6
162.5°	373.7	380.3	388.4	396.5	403.3	410.6	418.9	427.2	434.5	441.7	446.6
165°	377.6	383.1	389.3	394.8	399.5	405.0	411.2	417.5	422.2	427.7	431.6
167.5°	381.2	384.7	389.2	393.6	395.8	399.4	403.9	409.0	412.6	415.8	418.6
170°	383.1	384.7	388.6	391.7	393.3	395.6	399.5	403.4	405.8	408.9	410.5
172.5°	384.3	385.3	388.6	391.1	391.4	392.5	395.1	398.4	400.1	402.6	403.6
175°	385.4	386.2	387.8	389.3	388.6	388.6	390.1	391.7	392.5	394.0	394.0
177.5°	386.2	386.2	386.8	388.1	386.8	386.2	386.8	387.5	388.1	388.7	388.7
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



TEST NUMBER: P331975

CATALOG NUMBER: S123DIP-S775D805U835-4F0-1E-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°	11.9	12.1	11.8	11.2	11.8	12.1	11.9	12.1	13.4	12.0	11.9
90°	21.9	22.7	23.5	22.7	23.5	22.7	21.9	22.7	21.1	20.3	19.5
92.5°	40.7	38.3	39.1	37.7	39.1	38.3	40.7	42.1	46.1	52.2	65.8
95°	106.3	99.3	93.8	90.7	93.8	99.3	106.3	121.2	149.3	190.8	281.5
97.5°	309.9	274.7	253.6	246.9	253.6	274.7	309.9	367.6	461.1	562.0	701.6
100°	577.0	519.9	489.4	490.2	489.4	519.9	577.0	655.9	767.0	858.4	921.8
102.5°	807.8	762.6	737.1	719.1	737.1	762.6	807.8	869.2	939.6	992.9	994.9
105°	1053.1	1023.4	998.4	994.5	998.4	1023.4	1053.1	1089.1	1109.4	1094.5	1016.4
107.5°	1178.7	1168.7	1160.2	1153.0	1160.2	1168.7	1178.7	1178.0	1150.2	1081.7	954.8
110°	1214.9	1221.2	1219.6	1218.1	1219.6	1221.2	1214.9	1193.1	1138.3	1039.8	896.0



TEST NUMBER: P331975

CATALOG NUMBER: S123DIP-S775D805U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1205.6	1225.0	1230.9	1231.2	1230.9	1225.0	1205.6	1165.5	1095.2	984.8	837.8
115°	1155.5	1189.9	1205.6	1209.5	1205.6	1189.9	1155.5	1096.9	1011.7	896.7	760.7
117.5°	1073.1	1112.5	1135.0	1140.4	1135.0	1112.5	1073.1	1012.0	925.5	822.3	704.9
120°	1015.6	1059.4	1078.1	1082.8	1078.1	1059.4	1015.6	953.8	874.9	781.0	675.5
122.5°	963.0	1002.4	1023.1	1029.0	1023.1	1002.4	963.0	908.2	834.8	747.9	652.4
125°	894.4	928.8	948.3	953.8	948.3	928.8	894.4	844.4	781.8	706.8	621.5
127.5°	839.8	869.2	886.9	891.9	886.9	869.2	839.8	795.3	738.4	670.6	594.7
130°	806.1	834.2	850.6	856.9	850.6	834.2	806.1	764.6	711.5	648.1	577.8
132.5°	775.4	803.6	818.1	822.5	818.1	803.6	775.4	736.5	685.8	626.9	562.1
135°	730.2	753.7	767.7	773.2	767.7	753.7	730.2	691.9	647.3	596.5	541.0
137.5°	681.9	705.7	717.6	721.2	717.6	705.7	681.9	649.7	611.1	567.3	521.8
140°	651.3	673.1	685.7	684.9	685.7	673.1	651.3	621.5	587.9	550.4	510.5
142.5°	621.2	640.6	651.9	651.1	651.9	640.6	621.2	595.9	566.7	534.1	499.9
145°	580.1	596.5	602.8	604.3	602.8	596.5	580.1	560.6	537.9	512.9	487.1
147.5°	548.2	559.3	565.3	565.9	565.3	559.3	548.2	533.4	517.3	497.1	476.6
150°	530.1	538.7	543.4	543.4	543.4	538.7	530.1	518.3	503.5	487.1	469.1
152.5°	513.8	521.8	524.6	524.6	524.6	521.8	513.8	504.6	492.2	477.7	462.2
155°	492.5	498.8	500.4	501.1	500.4	498.8	492.5	485.5	476.1	464.4	451.9
157.5°	473.9	478.6	479.9	479.7	479.9	478.6	473.9	467.8	460.5	451.4	440.9
160°	462.1	466.7	466.7	466.0	466.7	466.7	462.1	456.6	451.1	443.3	434.7
162.5°	450.2	454.2	454.2	453.5	454.2	454.2	450.2	446.6	441.7	434.5	427.2
165°	434.7	437.8	437.0	437.0	437.0	437.8	434.7	431.6	427.7	422.2	417.5
167.5°	420.0	422.2	421.4	421.4	421.4	422.2	420.0	418.6	415.8	412.6	409.0
170°	411.2	412.8	412.0	412.0	412.0	412.8	411.2	410.5	408.9	405.8	403.4
172.5°	403.7	405.3	403.9	403.3	403.9	405.3	403.7	403.6	402.6	400.1	398.4
175°	394.0	394.8	394.0	393.3	394.0	394.8	394.0	394.0	394.0	392.5	391.7
177.5°	388.1	388.7	387.5	387.5	387.5	388.7	388.1	388.7	388.7	388.1	387.5
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



TEST NUMBER: P331975

CATALOG NUMBER: S123DIP-S775D805U835-4F0-1E-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°	12.5	12.7	11.8	11.8	10.9	10.8	10.1	10.2	10.2	9.8	10.4
90°	18.8	19.5	17.2	14.9	12.5	10.2	8.6	7.0	4.7	3.1	1.6
92.5°	90.7	120.2	132.3	99.3	65.7	45.2	33.6	27.1	21.0	14.4	9.7
95°	376.1	463.6	412.8	284.6	168.1	101.6	71.1	50.8	37.5	28.9	26.6
97.5°	768.7	718.5	526.0	312.3	180.9	117.4	84.4	64.4	52.9	46.1	45.3
100°	894.4	740.4	500.4	294.7	179.0	124.3	93.8	75.1	64.1	58.6	57.9
102.5°	900.7	699.7	462.8	279.7	181.5	132.4	104.5	87.6	77.2	72.4	71.0
105°	853.0	628.6	416.7	268.9	188.4	146.2	122.0	107.1	97.7	93.0	90.7
107.5°	769.5	565.7	387.3	268.2	201.2	164.2	141.7	127.7	118.5	114.0	111.6
110°	716.9	530.1	376.1	271.3	211.9	176.7	154.8	141.5	132.9	129.0	126.7



TEST NUMBER: P331975

CATALOG NUMBER: S123DIP-S775D805U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	671.3	506.3	369.8	277.5	222.5	189.8	168.6	155.3	146.7	142.8	140.4
115°	616.1	480.8	367.5	287.7	240.0	210.3	189.2	175.9	168.1	163.4	160.3
117.5°	582.8	465.8	368.9	301.2	258.6	229.2	209.7	194.8	187.6	183.7	180.1
120°	565.3	458.9	371.4	311.2	270.5	242.4	222.8	208.0	200.1	196.2	193.9
122.5°	550.9	454.6	375.7	320.5	283.0	255.5	234.7	220.5	212.0	208.1	205.8
125°	532.4	448.8	382.3	335.4	301.0	273.6	252.5	237.7	229.1	224.4	222.8
127.5°	516.2	446.0	389.8	347.6	316.6	290.2	269.1	252.7	243.9	238.1	235.8
130°	507.4	444.1	394.8	355.7	326.0	300.2	279.1	262.7	253.3	246.3	243.9
132.5°	499.3	443.4	398.6	363.2	334.1	309.0	288.5	272.1	260.8	253.2	250.2
135°	488.6	442.5	404.2	372.9	346.3	322.1	301.0	284.6	272.9	264.3	261.1
137.5°	479.4	440.8	408.0	380.1	354.8	331.5	311.9	295.7	283.2	274.7	271.4
140°	473.8	440.2	410.5	383.9	360.4	337.7	318.2	302.6	290.1	282.2	278.3
142.5°	468.8	438.9	412.3	387.6	364.8	342.7	324.5	308.8	297.6	289.1	285.8
145°	462.1	437.0	413.6	391.7	370.6	350.3	332.3	319.0	307.3	300.2	297.9
147.5°	455.5	434.1	413.6	394.2	375.3	356.7	341.3	328.5	318.4	311.5	310.1
150°	451.1	431.6	413.6	394.8	378.4	360.4	346.3	335.4	325.2	319.0	318.2
152.5°	446.1	428.4	411.7	396.1	380.3	364.8	351.3	341.7	332.7	326.5	326.3
155°	438.6	423.0	409.7	396.4	383.9	370.6	359.6	351.0	343.2	338.5	338.5
157.5°	430.2	418.1	407.0	397.2	385.9	375.3	366.8	359.5	352.6	348.8	348.2
160°	424.5	414.4	405.8	397.2	387.8	378.4	370.6	365.1	358.9	355.7	355.7
162.5°	418.9	410.6	403.3	396.5	388.4	380.3	373.7	368.9	363.9	361.4	361.4
165°	411.2	405.0	399.5	394.8	389.3	383.1	377.6	374.5	370.6	369.0	369.8
167.5°	403.9	399.4	395.8	393.6	389.2	384.7	381.2	379.0	376.1	375.3	376.2
170°	399.5	395.6	393.3	391.7	388.6	384.7	383.1	381.5	379.2	378.4	380.0
172.5°	395.1	392.5	391.4	391.1	388.6	385.3	384.3	383.4	381.7	381.5	382.5
175°	390.1	388.6	388.6	389.3	387.8	386.2	385.4	385.4	383.9	384.7	385.4
177.5°	386.8	386.2	386.8	388.1	386.8	386.2	386.2	386.2	385.6	386.2	386.8
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



TEST NUMBER: P331975

CATALOG NUMBER: S123DIP-S775D805U835-4F0-1E-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°	11.5	11.8	13.6	14.7	16.7	18.4	18.5	18.1	18.1	17.6	17.3
90°	3.1	4.7	7.0	8.6	10.2	12.5	14.9	17.2	19.5	18.8	19.5
92.5°	14.4	21.0	27.1	33.6	45.2	65.7	99.3	132.3	120.2	90.7	65.8
95°	28.9	37.5	50.8	71.1	101.6	168.1	284.6	412.8	463.6	376.1	281.5
97.5°	46.1	52.9	64.4	84.4	117.4	180.9	312.3	526.0	718.5	768.7	701.6
100°	58.6	64.1	75.1	93.8	124.3	179.0	294.7	500.4	740.4	894.4	921.8
102.5°	72.4	77.2	87.6	104.5	132.4	181.5	279.7	462.8	699.7	900.7	994.9
105°	93.0	97.7	107.1	122.0	146.2	188.4	268.9	416.7	628.6	853.0	1016.4
107.5°	114.0	118.5	127.7	141.7	164.2	201.2	268.2	387.3	565.7	769.5	954.8
110°	129.0	132.9	141.5	154.8	176.7	211.9	271.3	376.1	530.1	716.9	896.0





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	142.8	146.7	155.3	168.6	189.8	222.5	277.5	369.8	506.3	671.3	837.8
115°	163.4	168.1	175.9	189.2	210.3	240.0	287.7	367.5	480.8	616.1	760.7
117.5°	183.7	187.6	194.8	209.7	229.2	258.6	301.2	368.9	465.8	582.8	704.9
120°	196.2	200.1	208.0	222.8	242.4	270.5	311.2	371.4	458.9	565.3	675.5
122.5°	208.1	212.0	220.5	234.7	255.5	283.0	320.5	375.7	454.6	550.9	652.4
125°	224.4	229.1	237.7	252.5	273.6	301.0	335.4	382.3	448.8	532.4	621.5
127.5°	238.1	243.9	252.7	269.1	290.2	316.6	347.6	389.8	446.0	516.2	594.7
130°	246.3	253.3	262.7	279.1	300.2	326.0	355.7	394.8	444.1	507.4	577.8
132.5°	253.2	260.8	272.1	288.5	309.0	334.1	363.2	398.6	443.4	499.3	562.1
135°	264.3	272.9	284.6	301.0	322.1	346.3	372.9	404.2	442.5	488.6	541.0
137.5°	274.7	283.2	295.7	311.9	331.5	354.8	380.1	408.0	440.8	479.4	521.8
140°	282.2	290.1	302.6	318.2	337.7	360.4	383.9	410.5	440.2	473.8	510.5
142.5°	289.1	297.6	308.8	324.5	342.7	364.8	387.6	412.3	438.9	468.8	499.9
145°	300.2	307.3	319.0	332.3	350.3	370.6	391.7	413.6	437.0	462.1	487.1
147.5°	311.5	318.4	328.5	341.3	356.7	375.3	394.2	413.6	434.1	455.5	476.6
150°	319.0	325.2	335.4	346.3	360.4	378.4	394.8	413.6	431.6	451.1	469.1
152.5°	326.5	332.7	341.7	351.3	364.8	380.3	396.1	411.7	428.4	446.1	462.2
155°	338.5	343.2	351.0	359.6	370.6	383.9	396.4	409.7	423.0	438.6	451.9
157.5°	348.8	352.6	359.5	366.8	375.3	385.9	397.2	407.0	418.1	430.2	440.9
160°	355.7	358.9	365.1	370.6	378.4	387.8	397.2	405.8	414.4	424.5	434.7
162.5°	361.4	363.9	368.9	373.7	380.3	388.4	396.5	403.3	410.6	418.9	427.2
165°	369.0	370.6	374.5	377.6	383.1	389.3	394.8	399.5	405.0	411.2	417.5
167.5°	375.3	376.1	379.0	381.2	384.7	389.2	393.6	395.8	399.4	403.9	409.0
170°	378.4	379.2	381.5	383.1	384.7	388.6	391.7	393.3	395.6	399.5	403.4
172.5°	381.5	381.7	383.4	384.3	385.3	388.6	391.1	391.4	392.5	395.1	398.4
175°	384.7	383.9	385.4	385.4	386.2	387.8	389.3	388.6	388.6	390.1	391.7
177.5°	386.2	385.6	386.2	386.2	386.2	386.8	388.1	386.8	386.2	386.8	387.5
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



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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°	17.0	16.8	16.7	16.9	16.7	16.4	17.1
90°	20.3	21.1	22.7	21.9	22.7	23.5	22.7
92.5°	52.2	46.1	42.1	40.7	38.3	39.1	37.7
95°	190.8	149.3	121.2	106.3	99.3	93.8	90.7
97.5°	562.0	461.1	367.6	309.9	274.7	253.6	246.9
100°	858.4	767.0	655.9	577.0	519.9	489.4	490.2
102.5°	992.9	939.6	869.2	807.8	762.6	737.1	719.1
105°	1094.5	1109.4	1089.1	1053.1	1023.4	998.4	994.5
107.5°	1081.7	1150.2	1178.0	1178.7	1168.7	1160.2	1153.0
110°	1039.8	1138.3	1193.1	1214.9	1221.2	1219.6	1218.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	984.8	1095.2	1165.5	1205.6	1225.0	1230.9	1231.2
115°	896.7	1011.7	1096.9	1155.5	1189.9	1205.6	1209.5
117.5°	822.3	925.5	1012.0	1073.1	1112.5	1135.0	1140.4
120°	781.0	874.9	953.8	1015.6	1059.4	1078.1	1082.8
122.5°	747.9	834.8	908.2	963.0	1002.4	1023.1	1029.0
125°	706.8	781.8	844.4	894.4	928.8	948.3	953.8
127.5°	670.6	738.4	795.3	839.8	869.2	886.9	891.9
130°	648.1	711.5	764.6	806.1	834.2	850.6	856.9
132.5°	626.9	685.8	736.5	775.4	803.6	818.1	822.5
135°	596.5	647.3	691.9	730.2	753.7	767.7	773.2
137.5°	567.3	611.1	649.7	681.9	705.7	717.6	721.2
140°	550.4	587.9	621.5	651.3	673.1	685.7	684.9
142.5°	534.1	566.7	595.9	621.2	640.6	651.9	651.1
145°	512.9	537.9	560.6	580.1	596.5	602.8	604.3
147.5°	497.1	517.3	533.4	548.2	559.3	565.3	565.9
150°	487.1	503.5	518.3	530.1	538.7	543.4	543.4
152.5°	477.7	492.2	504.6	513.8	521.8	524.6	524.6
155°	464.4	476.1	485.5	492.5	498.8	500.4	501.1
157.5°	451.4	460.5	467.8	473.9	478.6	479.9	479.7
160°	443.3	451.1	456.6	462.1	466.7	466.7	466.0
162.5°	434.5	441.7	446.6	450.2	454.2	454.2	453.5
165°	422.2	427.7	431.6	434.7	437.8	437.0	437.0
167.5°	412.6	415.8	418.6	420.0	422.2	421.4	421.4
170°	405.8	408.9	410.5	411.2	412.8	412.0	412.0
172.5°	400.1	402.6	403.6	403.7	405.3	403.9	403.3
175°	392.5	394.0	394.0	394.0	394.8	394.0	393.3
177.5°	388.1	388.7	388.7	388.1	388.7	387.5	387.5
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2

(END OF REPORT)