

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: P331957

Luminaire Tested: **S123DIP-S775D365U835-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331957
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-S775D365U835-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

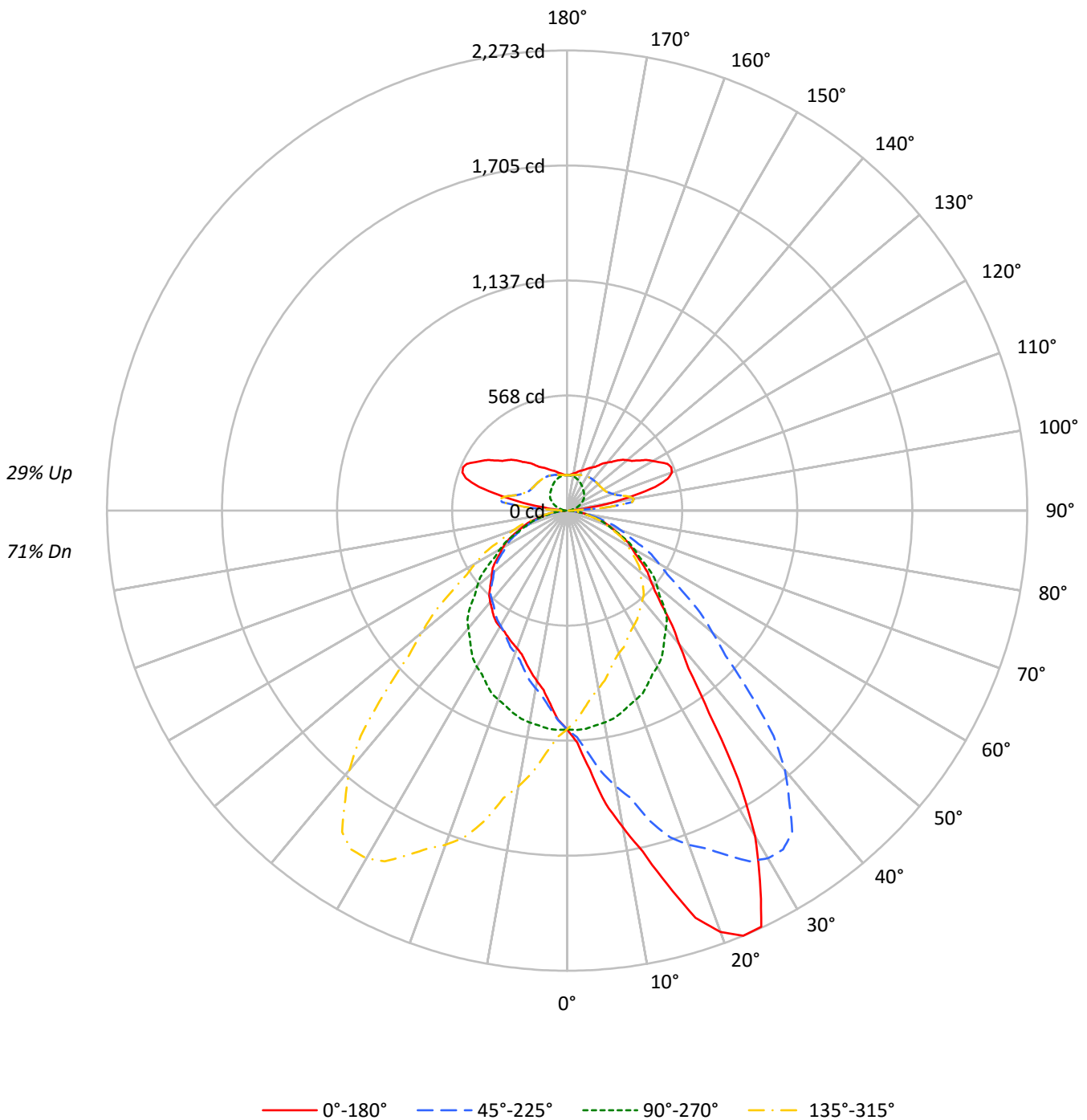
Lumens per Lamp: N/A
Luminaire Lumens: 4576.0 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	71
1	103	99	95	91	97	94	90	87	84	82	79	76	74	72	68	66	65	61
2	94	87	80	75	89	82	77	72	74	70	66	67	63	61	60	57	55	52
3	86	76	69	63	81	73	66	61	66	60	56	59	55	52	53	50	47	44
4	79	68	60	54	75	65	58	52	59	53	48	53	48	45	48	44	41	38
5	73	61	53	46	69	58	51	45	53	47	42	48	43	39	43	39	36	33
6	67	55	46	41	63	52	45	39	48	41	37	43	38	34	39	35	32	29
7	62	50	41	36	59	47	40	35	43	37	33	40	34	30	36	32	28	26
8	58	45	37	32	55	43	36	31	40	33	29	36	31	27	33	29	25	23
9	54	41	34	29	51	40	33	28	36	30	26	33	28	25	31	26	23	21
10	50	38	31	26	48	37	30	25	34	28	24	31	26	22	28	24	21	19

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	2.3
10°-20°	341.3	7.5
20°-30°	572.8	12.5
30°-40°	648.6	14.2
40°-50°	581.7	12.7
50°-60°	469.4	10.3
60°-70°	327.1	7.1
70°-80°	171.9	3.8
80°-90°	43.4	0.9
90°-100°	97.2	2.1
100°-110°	275.1	6.0
110°-120°	270.6	5.9
120°-130°	215.9	4.7
130°-140°	170.2	3.7
140°-150°	127.0	2.8
150°-160°	88.5	1.9
160°-170°	52.0	1.1
170°-180°	16.9	0.4
0°-30°	1020.6	22.3
0°-40°	1669.2	36.5
0°-60°	2720.2	59.4
0°-90°	3262.6	71.3
90°-120°	642.9	14.0
90°-150°	1155.9	25.3
90°-180°	1313.0	28.7
0°-180°	4576.0	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°	10	1	10	1	10	7
95°	41	12	41	12	41	74
105°	450	41	450	41	450	443
115°	547	72	547	72	547	531
125°	431	101	431	101	431	391
135°	350	118	350	118	350	271
145°	273	135	273	135	273	174
155°	226	153	226	153	226	106
165°	198	167	198	167	198	56
175°	178	174	178	174	178	17
180°	175	175	175	175	175	



TEST NUMBER: P331957

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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°	14.6	13.8	14.2	14.5	14.2	14.5	14.8	15.2	15.5	16.0	16.2
90°	10.2	10.6	10.2	9.9	10.2	9.5	9.2	8.8	8.5	8.8	7.8
92.5°	17.0	17.7	17.3	18.4	19.0	20.8	23.6	29.8	41.0	54.3	59.8
95°	41.0	42.4	44.9	48.1	54.8	67.5	86.2	127.2	170.0	209.6	186.6
97.5°	111.6	114.6	124.2	140.1	166.2	208.4	254.0	317.1	347.4	324.8	237.8
100°	221.6	221.2	235.0	260.8	296.5	346.7	388.0	416.6	404.3	334.7	226.2
102.5°	325.0	333.2	344.7	365.1	392.9	424.7	448.8	449.7	407.1	316.3	209.2
105°	449.5	451.3	462.6	476.0	492.3	501.4	494.7	459.4	385.5	284.1	188.4
107.5°	521.2	524.4	528.2	532.8	532.5	519.9	488.9	431.5	347.8	255.7	175.1
110°	550.6	551.3	552.0	549.2	539.3	514.5	470.0	405.0	324.1	239.6	170.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	556.5	556.4	553.7	544.9	526.8	495.0	445.1	378.7	303.4	228.8	167.1
115°	546.7	544.9	537.8	522.3	495.8	457.3	405.3	343.8	278.5	217.3	166.1
117.5°	515.4	513.0	502.9	485.1	457.4	418.3	371.7	318.6	263.4	210.5	166.7
120°	489.4	487.3	478.8	459.0	431.1	395.4	353.0	305.3	255.5	207.4	167.9
122.5°	465.1	462.4	453.1	435.3	410.5	377.3	338.0	294.9	249.0	205.5	169.8
125°	431.1	428.7	419.8	404.3	381.7	353.4	319.5	280.9	240.7	202.8	172.8
127.5°	403.1	400.9	392.9	379.6	359.5	333.7	303.1	268.8	233.3	201.6	176.2
130°	387.3	384.5	377.1	364.3	345.6	321.6	293.0	261.1	229.3	200.7	178.5
132.5°	371.8	369.8	363.2	350.5	332.9	310.0	283.3	254.1	225.7	200.4	180.2
135°	349.5	347.0	340.7	330.1	312.7	292.6	269.6	244.5	220.9	200.0	182.7
137.5°	326.0	324.3	319.0	308.2	293.7	276.2	256.4	235.8	216.7	199.2	184.4
140°	309.6	309.9	304.3	294.4	280.9	265.7	248.8	230.8	214.1	199.0	185.5
142.5°	294.3	294.6	289.6	280.8	269.3	256.1	241.4	226.0	211.9	198.4	186.4
145°	273.2	272.5	269.6	262.2	253.4	243.1	231.8	220.2	208.8	197.5	186.9
147.5°	255.8	255.5	252.8	247.8	241.1	233.8	224.7	215.4	205.9	196.2	186.9
150°	245.6	245.6	243.5	239.6	234.3	227.6	220.2	212.0	203.9	195.1	186.9
152.5°	237.1	237.1	235.8	232.2	228.1	222.5	215.9	208.9	201.6	193.7	186.1
155°	226.5	226.2	225.5	222.6	219.4	215.2	209.9	204.3	198.2	191.2	185.2
157.5°	216.8	216.9	216.3	214.2	211.5	208.1	204.0	199.3	194.4	189.0	184.0
160°	210.6	211.0	211.0	208.8	206.4	203.9	200.4	196.5	191.9	187.3	183.4
162.5°	205.0	205.3	205.3	203.5	201.9	199.7	196.4	193.1	189.3	185.6	182.3
165°	197.5	197.5	197.9	196.5	195.1	193.3	190.8	188.7	185.9	183.1	180.6
167.5°	190.5	190.5	190.8	189.8	189.2	187.9	186.5	184.9	182.6	180.5	178.9
170°	186.2	186.2	186.6	185.9	185.5	184.8	183.4	182.3	180.6	178.8	177.8
172.5°	182.3	182.6	183.2	182.5	182.4	182.0	180.9	180.1	178.6	177.4	176.9
175°	177.8	178.1	178.5	178.1	178.1	178.1	177.4	177.0	176.3	175.6	175.6
177.5°	175.1	175.1	175.7	175.4	175.7	175.7	175.4	175.1	174.9	174.6	174.9
180°	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6



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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°	16.8	17.0	15.6	13.8	12.8	11.3	11.2	10.2	9.5	9.6	9.4
90°	6.7	5.7	4.6	3.9	3.2	2.1	1.4	0.7	1.4	2.1	3.2
92.5°	44.9	29.7	20.4	15.2	12.2	9.5	6.5	4.4	6.5	9.5	12.2
95°	128.6	76.0	45.9	32.2	23.0	17.0	13.1	12.0	13.1	17.0	23.0
97.5°	141.1	81.8	53.1	38.2	29.1	23.9	20.8	20.5	20.8	23.9	29.1
100°	133.2	80.9	56.2	42.4	33.9	29.0	26.5	26.2	26.5	29.0	33.9
102.5°	126.4	82.1	59.9	47.2	39.6	34.9	32.7	32.1	32.7	34.9	39.6
105°	121.6	85.2	66.1	55.1	48.4	44.2	42.1	41.0	42.1	44.2	48.4
107.5°	121.2	91.0	74.2	64.0	57.7	53.6	51.5	50.5	51.5	53.6	57.7
110°	122.6	95.8	79.9	70.0	64.0	60.1	58.3	57.2	58.3	60.1	64.0



TEST NUMBER: P331957

CATALOG NUMBER: S123DIP-S775D365U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	125.5	100.6	85.8	76.2	70.2	66.3	64.5	63.5	64.5	66.3	70.2
115°	130.0	108.5	95.1	85.5	79.5	76.0	73.9	72.4	73.9	76.0	79.5
117.5°	136.1	116.9	103.6	94.8	88.1	84.8	83.0	81.4	83.0	84.8	88.1
120°	140.6	122.3	109.5	100.7	94.0	90.5	88.7	87.6	88.7	90.5	94.0
122.5°	144.9	127.9	115.5	106.1	99.7	95.8	94.1	93.0	94.1	95.8	99.7
125°	151.6	136.1	123.7	114.1	107.4	103.5	101.4	100.7	101.4	103.5	107.4
127.5°	157.1	143.1	131.2	121.6	114.2	110.3	107.6	106.6	107.6	110.3	114.2
130°	160.8	147.4	135.7	126.2	118.7	114.5	111.3	110.3	111.3	114.5	118.7
132.5°	164.2	151.0	139.7	130.4	123.0	117.9	114.4	113.1	114.4	117.9	123.0
135°	168.6	156.5	145.6	136.1	128.6	123.3	119.4	118.0	119.4	123.3	128.6
137.5°	171.8	160.4	149.8	141.0	133.6	128.0	124.2	122.7	124.2	128.0	133.6
140°	173.5	162.9	152.7	143.8	136.8	131.1	127.6	125.8	127.6	131.1	136.8
142.5°	175.2	164.9	154.9	146.7	139.6	134.5	130.7	129.2	130.7	134.5	139.6
145°	177.0	167.5	158.3	150.2	144.2	138.9	135.7	134.6	135.7	138.9	144.2
147.5°	178.2	169.6	161.2	154.3	148.5	143.9	140.8	140.2	140.8	143.9	148.5
150°	178.5	171.0	162.9	156.5	151.6	147.0	144.2	143.8	144.2	147.0	151.6
152.5°	179.0	171.9	164.9	158.8	154.4	150.4	147.6	147.5	147.6	150.4	154.4
155°	179.2	173.5	167.5	162.6	158.7	155.1	153.0	153.0	153.0	155.1	158.7
157.5°	179.5	174.4	169.6	165.8	162.5	159.4	157.7	157.4	157.7	159.4	162.5
160°	179.5	175.3	171.0	167.5	165.0	162.2	160.8	160.8	160.8	162.2	165.0
162.5°	179.2	175.6	171.9	168.9	166.7	164.5	163.3	163.3	163.3	164.5	166.7
165°	178.5	176.0	173.2	170.7	169.3	167.5	166.8	167.1	166.8	167.5	169.3
167.5°	177.9	175.9	173.9	172.3	171.3	170.0	169.6	170.0	169.6	170.0	171.3
170°	177.0	175.6	173.9	173.2	172.4	171.4	171.0	171.7	171.0	171.4	172.4
172.5°	176.8	175.6	174.1	173.7	173.3	172.5	172.4	172.9	172.4	172.5	173.3
175°	176.0	175.3	174.6	174.2	174.2	173.5	173.9	174.2	173.9	173.5	174.2
177.5°	175.4	174.9	174.6	174.6	174.6	174.3	174.6	174.9	174.6	174.3	174.6
180°	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6



TEST NUMBER: P331957

CATALOG NUMBER: S123DIP-S775D365U835-4F0-1E-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°	9.2	9.7	9.5	10.1	9.9	10.6	10.5	9.7	9.8	11.1	9.6
90°	3.9	4.6	5.7	6.7	7.8	8.8	8.5	8.8	9.2	9.5	10.2
92.5°	15.2	20.4	29.7	44.9	59.8	54.3	41.0	29.8	23.6	20.8	19.0
95°	32.2	45.9	76.0	128.6	186.6	209.6	170.0	127.2	86.2	67.5	54.8
97.5°	38.2	53.1	81.8	141.1	237.8	324.8	347.4	317.1	254.0	208.4	166.2
100°	42.4	56.2	80.9	133.2	226.2	334.7	404.3	416.6	388.0	346.7	296.5
102.5°	47.2	59.9	82.1	126.4	209.2	316.3	407.1	449.7	448.8	424.7	392.9
105°	55.1	66.1	85.2	121.6	188.4	284.1	385.5	459.4	494.7	501.4	492.3
107.5°	64.0	74.2	91.0	121.2	175.1	255.7	347.8	431.5	488.9	519.9	532.5
110°	70.0	79.9	95.8	122.6	170.0	239.6	324.1	405.0	470.0	514.5	539.3



TEST NUMBER: P331957

CATALOG NUMBER: S123DIP-S775D365U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	76.2	85.8	100.6	125.5	167.1	228.8	303.4	378.7	445.1	495.0	526.8
115°	85.5	95.1	108.5	130.0	166.1	217.3	278.5	343.8	405.3	457.3	495.8
117.5°	94.8	103.6	116.9	136.1	166.7	210.5	263.4	318.6	371.7	418.3	457.4
120°	100.7	109.5	122.3	140.6	167.9	207.4	255.5	305.3	353.0	395.4	431.1
122.5°	106.1	115.5	127.9	144.9	169.8	205.5	249.0	294.9	338.0	377.3	410.5
125°	114.1	123.7	136.1	151.6	172.8	202.8	240.7	280.9	319.5	353.4	381.7
127.5°	121.6	131.2	143.1	157.1	176.2	201.6	233.3	268.8	303.1	333.7	359.5
130°	126.2	135.7	147.4	160.8	178.5	200.7	229.3	261.1	293.0	321.6	345.6
132.5°	130.4	139.7	151.0	164.2	180.2	200.4	225.7	254.1	283.3	310.0	332.9
135°	136.1	145.6	156.5	168.6	182.7	200.0	220.9	244.5	269.6	292.6	312.7
137.5°	141.0	149.8	160.4	171.8	184.4	199.2	216.7	235.8	256.4	276.2	293.7
140°	143.8	152.7	162.9	173.5	185.5	199.0	214.1	230.8	248.8	265.7	280.9
142.5°	146.7	154.9	164.9	175.2	186.4	198.4	211.9	226.0	241.4	256.1	269.3
145°	150.2	158.3	167.5	177.0	186.9	197.5	208.8	220.2	231.8	243.1	253.4
147.5°	154.3	161.2	169.6	178.2	186.9	196.2	205.9	215.4	224.7	233.8	241.1
150°	156.5	162.9	171.0	178.5	186.9	195.1	203.9	212.0	220.2	227.6	234.3
152.5°	158.8	164.9	171.9	179.0	186.1	193.7	201.6	208.9	215.9	222.5	228.1
155°	162.6	167.5	173.5	179.2	185.2	191.2	198.2	204.3	209.9	215.2	219.4
157.5°	165.8	169.6	174.4	179.5	184.0	189.0	194.4	199.3	204.0	208.1	211.5
160°	167.5	171.0	175.3	179.5	183.4	187.3	191.9	196.5	200.4	203.9	206.4
162.5°	168.9	171.9	175.6	179.2	182.3	185.6	189.3	193.1	196.4	199.7	201.9
165°	170.7	173.2	176.0	178.5	180.6	183.1	185.9	188.7	190.8	193.3	195.1
167.5°	172.3	173.9	175.9	177.9	178.9	180.5	182.6	184.9	186.5	187.9	189.2
170°	173.2	173.9	175.6	177.0	177.8	178.8	180.6	182.3	183.4	184.8	185.5
172.5°	173.7	174.1	175.6	176.8	176.9	177.4	178.6	180.1	180.9	182.0	182.4
175°	174.2	174.6	175.3	176.0	175.6	175.6	176.3	177.0	177.4	178.1	178.1
177.5°	174.6	174.6	174.9	175.4	174.9	174.6	174.9	175.1	175.4	175.7	175.7
180°	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6



TEST NUMBER: P331957

CATALOG NUMBER: S123DIP-S775D365U835-4F0-1E-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°	9.5	9.6	9.2	8.8	9.2	9.6	9.5	9.6	11.1	9.8	9.7
90°	9.9	10.2	10.6	10.2	10.6	10.2	9.9	10.2	9.5	9.2	8.8
92.5°	18.4	17.3	17.7	17.0	17.7	17.3	18.4	19.0	20.8	23.6	29.8
95°	48.1	44.9	42.4	41.0	42.4	44.9	48.1	54.8	67.5	86.2	127.2
97.5°	140.1	124.2	114.6	111.6	114.6	124.2	140.1	166.2	208.4	254.0	317.1
100°	260.8	235.0	221.2	221.6	221.2	235.0	260.8	296.5	346.7	388.0	416.6
102.5°	365.1	344.7	333.2	325.0	333.2	344.7	365.1	392.9	424.7	448.8	449.7
105°	476.0	462.6	451.3	449.5	451.3	462.6	476.0	492.3	501.4	494.7	459.4
107.5°	532.8	528.2	524.4	521.2	524.4	528.2	532.8	532.5	519.9	488.9	431.5
110°	549.2	552.0	551.3	550.6	551.3	552.0	549.2	539.3	514.5	470.0	405.0



TEST NUMBER: P331957

CATALOG NUMBER: S123DIP-S775D365U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	544.9	553.7	556.4	556.5	556.4	553.7	544.9	526.8	495.0	445.1	378.7
115°	522.3	537.8	544.9	546.7	544.9	537.8	522.3	495.8	457.3	405.3	343.8
117.5°	485.1	502.9	513.0	515.4	513.0	502.9	485.1	457.4	418.3	371.7	318.6
120°	459.0	478.8	487.3	489.4	487.3	478.8	459.0	431.1	395.4	353.0	305.3
122.5°	435.3	453.1	462.4	465.1	462.4	453.1	435.3	410.5	377.3	338.0	294.9
125°	404.3	419.8	428.7	431.1	428.7	419.8	404.3	381.7	353.4	319.5	280.9
127.5°	379.6	392.9	400.9	403.1	400.9	392.9	379.6	359.5	333.7	303.1	268.8
130°	364.3	377.1	384.5	387.3	384.5	377.1	364.3	345.6	321.6	293.0	261.1
132.5°	350.5	363.2	369.8	371.8	369.8	363.2	350.5	332.9	310.0	283.3	254.1
135°	330.1	340.7	347.0	349.5	347.0	340.7	330.1	312.7	292.6	269.6	244.5
137.5°	308.2	319.0	324.3	326.0	324.3	319.0	308.2	293.7	276.2	256.4	235.8
140°	294.4	304.3	309.9	309.6	309.9	304.3	294.4	280.9	265.7	248.8	230.8
142.5°	280.8	289.6	294.6	294.3	294.6	289.6	280.8	269.3	256.1	241.4	226.0
145°	262.2	269.6	272.5	273.2	272.5	269.6	262.2	253.4	243.1	231.8	220.2
147.5°	247.8	252.8	255.5	255.8	255.5	252.8	247.8	241.1	233.8	224.7	215.4
150°	239.6	243.5	245.6	245.6	245.6	243.5	239.6	234.3	227.6	220.2	212.0
152.5°	232.2	235.8	237.1	237.1	237.1	235.8	232.2	228.1	222.5	215.9	208.9
155°	222.6	225.5	226.2	226.5	226.2	225.5	222.6	219.4	215.2	209.9	204.3
157.5°	214.2	216.3	216.9	216.8	216.9	216.3	214.2	211.5	208.1	204.0	199.3
160°	208.8	211.0	211.0	210.6	211.0	211.0	208.8	206.4	203.9	200.4	196.5
162.5°	203.5	205.3	205.3	205.0	205.3	205.3	203.5	201.9	199.7	196.4	193.1
165°	196.5	197.9	197.5	197.5	197.5	197.9	196.5	195.1	193.3	190.8	188.7
167.5°	189.8	190.8	190.5	190.5	190.5	190.8	189.8	189.2	187.9	186.5	184.9
170°	185.9	186.6	186.2	186.2	186.2	186.6	185.9	185.5	184.8	183.4	182.3
172.5°	182.5	183.2	182.6	182.3	182.6	183.2	182.5	182.4	182.0	180.9	180.1
175°	178.1	178.5	178.1	177.8	178.1	178.5	178.1	178.1	178.1	177.4	177.0
177.5°	175.4	175.7	175.1	175.1	175.1	175.7	175.4	175.7	175.7	175.4	175.1
180°	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6



TEST NUMBER: P331957

CATALOG NUMBER: S123DIP-S775D365U835-4F0-1E-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°	10.5	10.6	9.9	10.1	9.5	9.7	9.2	9.4	9.6	9.5	10.2
90°	8.5	8.8	7.8	6.7	5.7	4.6	3.9	3.2	2.1	1.4	0.7
92.5°	41.0	54.3	59.8	44.9	29.7	20.4	15.2	12.2	9.5	6.5	4.4
95°	170.0	209.6	186.6	128.6	76.0	45.9	32.2	23.0	17.0	13.1	12.0
97.5°	347.4	324.8	237.8	141.1	81.8	53.1	38.2	29.1	23.9	20.8	20.5
100°	404.3	334.7	226.2	133.2	80.9	56.2	42.4	33.9	29.0	26.5	26.2
102.5°	407.1	316.3	209.2	126.4	82.1	59.9	47.2	39.6	34.9	32.7	32.1
105°	385.5	284.1	188.4	121.6	85.2	66.1	55.1	48.4	44.2	42.1	41.0
107.5°	347.8	255.7	175.1	121.2	91.0	74.2	64.0	57.7	53.6	51.5	50.5
110°	324.1	239.6	170.0	122.6	95.8	79.9	70.0	64.0	60.1	58.3	57.2



TEST NUMBER: P331957

CATALOG NUMBER: S123DIP-S775D365U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	303.4	228.8	167.1	125.5	100.6	85.8	76.2	70.2	66.3	64.5	63.5
115°	278.5	217.3	166.1	130.0	108.5	95.1	85.5	79.5	76.0	73.9	72.4
117.5°	263.4	210.5	166.7	136.1	116.9	103.6	94.8	88.1	84.8	83.0	81.4
120°	255.5	207.4	167.9	140.6	122.3	109.5	100.7	94.0	90.5	88.7	87.6
122.5°	249.0	205.5	169.8	144.9	127.9	115.5	106.1	99.7	95.8	94.1	93.0
125°	240.7	202.8	172.8	151.6	136.1	123.7	114.1	107.4	103.5	101.4	100.7
127.5°	233.3	201.6	176.2	157.1	143.1	131.2	121.6	114.2	110.3	107.6	106.6
130°	229.3	200.7	178.5	160.8	147.4	135.7	126.2	118.7	114.5	111.3	110.3
132.5°	225.7	200.4	180.2	164.2	151.0	139.7	130.4	123.0	117.9	114.4	113.1
135°	220.9	200.0	182.7	168.6	156.5	145.6	136.1	128.6	123.3	119.4	118.0
137.5°	216.7	199.2	184.4	171.8	160.4	149.8	141.0	133.6	128.0	124.2	122.7
140°	214.1	199.0	185.5	173.5	162.9	152.7	143.8	136.8	131.1	127.6	125.8
142.5°	211.9	198.4	186.4	175.2	164.9	154.9	146.7	139.6	134.5	130.7	129.2
145°	208.8	197.5	186.9	177.0	167.5	158.3	150.2	144.2	138.9	135.7	134.6
147.5°	205.9	196.2	186.9	178.2	169.6	161.2	154.3	148.5	143.9	140.8	140.2
150°	203.9	195.1	186.9	178.5	171.0	162.9	156.5	151.6	147.0	144.2	143.8
152.5°	201.6	193.7	186.1	179.0	171.9	164.9	158.8	154.4	150.4	147.6	147.5
155°	198.2	191.2	185.2	179.2	173.5	167.5	162.6	158.7	155.1	153.0	153.0
157.5°	194.4	189.0	184.0	179.5	174.4	169.6	165.8	162.5	159.4	157.7	157.4
160°	191.9	187.3	183.4	179.5	175.3	171.0	167.5	165.0	162.2	160.8	160.8
162.5°	189.3	185.6	182.3	179.2	175.6	171.9	168.9	166.7	164.5	163.3	163.3
165°	185.9	183.1	180.6	178.5	176.0	173.2	170.7	169.3	167.5	166.8	167.1
167.5°	182.6	180.5	178.9	177.9	175.9	173.9	172.3	171.3	170.0	169.6	170.0
170°	180.6	178.8	177.8	177.0	175.6	173.9	173.2	172.4	171.4	171.0	171.7
172.5°	178.6	177.4	176.9	176.8	175.6	174.1	173.7	173.3	172.5	172.4	172.9
175°	176.3	175.6	175.6	176.0	175.3	174.6	174.2	174.2	173.5	173.9	174.2
177.5°	174.9	174.6	174.9	175.4	174.9	174.6	174.6	174.6	174.3	174.6	174.9
180°	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6



TEST NUMBER: P331957

CATALOG NUMBER: S123DIP-S775D365U835-4F0-1E-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°	11.2	11.3	12.8	13.8	15.6	17.0	16.8	16.2	16.0	15.5	15.2
90°	1.4	2.1	3.2	3.9	4.6	5.7	6.7	7.8	8.8	8.5	8.8
92.5°	6.5	9.5	12.2	15.2	20.4	29.7	44.9	59.8	54.3	41.0	29.8
95°	13.1	17.0	23.0	32.2	45.9	76.0	128.6	186.6	209.6	170.0	127.2
97.5°	20.8	23.9	29.1	38.2	53.1	81.8	141.1	237.8	324.8	347.4	317.1
100°	26.5	29.0	33.9	42.4	56.2	80.9	133.2	226.2	334.7	404.3	416.6
102.5°	32.7	34.9	39.6	47.2	59.9	82.1	126.4	209.2	316.3	407.1	449.7
105°	42.1	44.2	48.4	55.1	66.1	85.2	121.6	188.4	284.1	385.5	459.4
107.5°	51.5	53.6	57.7	64.0	74.2	91.0	121.2	175.1	255.7	347.8	431.5
110°	58.3	60.1	64.0	70.0	79.9	95.8	122.6	170.0	239.6	324.1	405.0



TEST NUMBER: P331957

CATALOG NUMBER: S123DIP-S775D365U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	64.5	66.3	70.2	76.2	85.8	100.6	125.5	167.1	228.8	303.4	378.7
115°	73.9	76.0	79.5	85.5	95.1	108.5	130.0	166.1	217.3	278.5	343.8
117.5°	83.0	84.8	88.1	94.8	103.6	116.9	136.1	166.7	210.5	263.4	318.6
120°	88.7	90.5	94.0	100.7	109.5	122.3	140.6	167.9	207.4	255.5	305.3
122.5°	94.1	95.8	99.7	106.1	115.5	127.9	144.9	169.8	205.5	249.0	294.9
125°	101.4	103.5	107.4	114.1	123.7	136.1	151.6	172.8	202.8	240.7	280.9
127.5°	107.6	110.3	114.2	121.6	131.2	143.1	157.1	176.2	201.6	233.3	268.8
130°	111.3	114.5	118.7	126.2	135.7	147.4	160.8	178.5	200.7	229.3	261.1
132.5°	114.4	117.9	123.0	130.4	139.7	151.0	164.2	180.2	200.4	225.7	254.1
135°	119.4	123.3	128.6	136.1	145.6	156.5	168.6	182.7	200.0	220.9	244.5
137.5°	124.2	128.0	133.6	141.0	149.8	160.4	171.8	184.4	199.2	216.7	235.8
140°	127.6	131.1	136.8	143.8	152.7	162.9	173.5	185.5	199.0	214.1	230.8
142.5°	130.7	134.5	139.6	146.7	154.9	164.9	175.2	186.4	198.4	211.9	226.0
145°	135.7	138.9	144.2	150.2	158.3	167.5	177.0	186.9	197.5	208.8	220.2
147.5°	140.8	143.9	148.5	154.3	161.2	169.6	178.2	186.9	196.2	205.9	215.4
150°	144.2	147.0	151.6	156.5	162.9	171.0	178.5	186.9	195.1	203.9	212.0
152.5°	147.6	150.4	154.4	158.8	164.9	171.9	179.0	186.1	193.7	201.6	208.9
155°	153.0	155.1	158.7	162.6	167.5	173.5	179.2	185.2	191.2	198.2	204.3
157.5°	157.7	159.4	162.5	165.8	169.6	174.4	179.5	184.0	189.0	194.4	199.3
160°	160.8	162.2	165.0	167.5	171.0	175.3	179.5	183.4	187.3	191.9	196.5
162.5°	163.3	164.5	166.7	168.9	171.9	175.6	179.2	182.3	185.6	189.3	193.1
165°	166.8	167.5	169.3	170.7	173.2	176.0	178.5	180.6	183.1	185.9	188.7
167.5°	169.6	170.0	171.3	172.3	173.9	175.9	177.9	178.9	180.5	182.6	184.9
170°	171.0	171.4	172.4	173.2	173.9	175.6	177.0	177.8	178.8	180.6	182.3
172.5°	172.4	172.5	173.3	173.7	174.1	175.6	176.8	176.9	177.4	178.6	180.1
175°	173.9	173.5	174.2	174.2	174.6	175.3	176.0	175.6	175.6	176.3	177.0
177.5°	174.6	174.3	174.6	174.6	174.6	174.9	175.4	174.9	174.6	174.9	175.1
180°	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6



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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°	14.8	14.5	14.2	14.5	14.2	13.8	14.6
90°	9.2	9.5	10.2	9.9	10.2	10.6	10.2
92.5°	23.6	20.8	19.0	18.4	17.3	17.7	17.0
95°	86.2	67.5	54.8	48.1	44.9	42.4	41.0
97.5°	254.0	208.4	166.2	140.1	124.2	114.6	111.6
100°	388.0	346.7	296.5	260.8	235.0	221.2	221.6
102.5°	448.8	424.7	392.9	365.1	344.7	333.2	325.0
105°	494.7	501.4	492.3	476.0	462.6	451.3	449.5
107.5°	488.9	519.9	532.5	532.8	528.2	524.4	521.2
110°	470.0	514.5	539.3	549.2	552.0	551.3	550.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	445.1	495.0	526.8	544.9	553.7	556.4	556.5
115°	405.3	457.3	495.8	522.3	537.8	544.9	546.7
117.5°	371.7	418.3	457.4	485.1	502.9	513.0	515.4
120°	353.0	395.4	431.1	459.0	478.8	487.3	489.4
122.5°	338.0	377.3	410.5	435.3	453.1	462.4	465.1
125°	319.5	353.4	381.7	404.3	419.8	428.7	431.1
127.5°	303.1	333.7	359.5	379.6	392.9	400.9	403.1
130°	293.0	321.6	345.6	364.3	377.1	384.5	387.3
132.5°	283.3	310.0	332.9	350.5	363.2	369.8	371.8
135°	269.6	292.6	312.7	330.1	340.7	347.0	349.5
137.5°	256.4	276.2	293.7	308.2	319.0	324.3	326.0
140°	248.8	265.7	280.9	294.4	304.3	309.9	309.6
142.5°	241.4	256.1	269.3	280.8	289.6	294.6	294.3
145°	231.8	243.1	253.4	262.2	269.6	272.5	273.2
147.5°	224.7	233.8	241.1	247.8	252.8	255.5	255.8
150°	220.2	227.6	234.3	239.6	243.5	245.6	245.6
152.5°	215.9	222.5	228.1	232.2	235.8	237.1	237.1
155°	209.9	215.2	219.4	222.6	225.5	226.2	226.5
157.5°	204.0	208.1	211.5	214.2	216.3	216.9	216.8
160°	200.4	203.9	206.4	208.8	211.0	211.0	210.6
162.5°	196.4	199.7	201.9	203.5	205.3	205.3	205.0
165°	190.8	193.3	195.1	196.5	197.9	197.5	197.5
167.5°	186.5	187.9	189.2	189.8	190.8	190.5	190.5
170°	183.4	184.8	185.5	185.9	186.6	186.2	186.2
172.5°	180.9	182.0	182.4	182.5	183.2	182.6	182.3
175°	177.4	178.1	178.1	178.1	178.5	178.1	177.8
177.5°	175.4	175.7	175.7	175.4	175.7	175.1	175.1
180°	174.6	174.6	174.6	174.6	174.6	174.6	174.6

(END OF REPORT)