

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: P331993-930

Luminaire Tested: **S123DIP-S775D1195U930-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331993-930
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-S775D1195U930-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1195 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6183.1 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

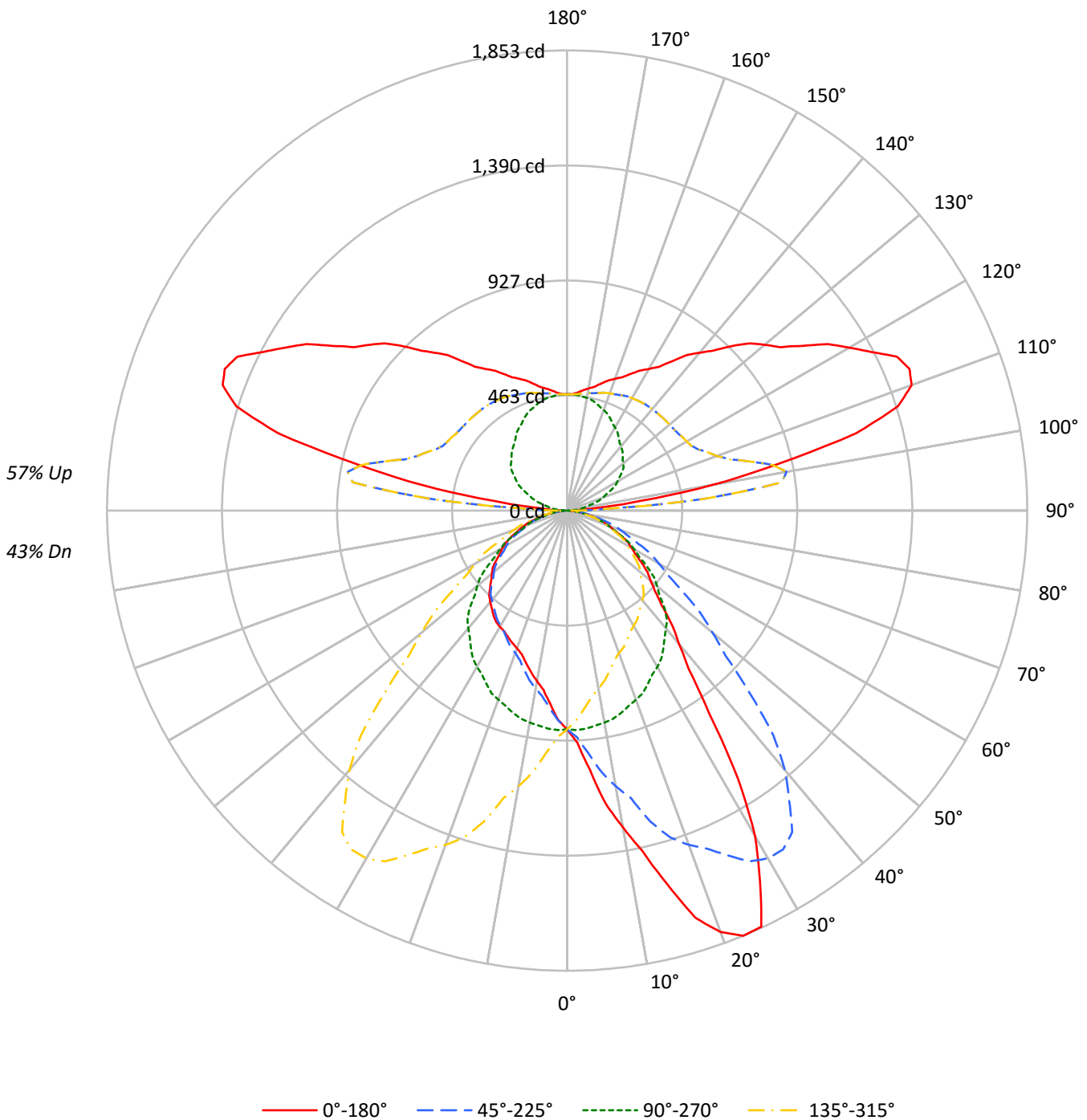
Input Watts (W): 56.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	96	92	89	85	88	85	81	78	70	68	66	57	55	54	44	43	42	37
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	38	36	31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	27
4	74	63	55	49	67	58	51	46	48	43	39	40	36	33	31	29	27	23
5	68	56	48	42	62	52	45	40	43	38	34	36	32	29	28	26	23	20
6	62	50	42	37	57	47	40	34	39	34	30	32	28	25	26	23	21	18
7	58	45	38	32	52	42	35	30	35	30	26	29	25	22	23	21	18	16
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	22	19	16	14
9	50	38	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15	13
10	46	34	27	23	42	32	26	21	27	22	19	23	19	16	18	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9482	9482	9482	9482
5°	11309	9524	8440	9524
10°	14154	9475	7623	9475
15°	17361	9399	7096	9399
20°	20681	9279	6757	9279
25°	21960	9136	6682	9136
30°	18821	9028	6717	9028
35°	13090	8878	6787	8878
40°	9860	8702	6764	8702
45°	8187	8441	6680	8441
50°	7333	7906	6620	7906
55°	6855	7328	6536	7328
60°	6433	6725	6469	6725
65°	6044	6133	6260	6133
70°	5668	5454	5964	5454
75°	5078	4774	5465	4774
80°	4444	3918	4711	3918
85°	3483	2853	3162	2853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	1.4
10°-20°	278.3	4.5
20°-30°	467.0	7.6
30°-40°	528.8	8.6
40°-50°	474.2	7.7
50°-60°	382.7	6.2
60°-70°	266.7	4.3
70°-80°	140.2	2.3
80°-90°	37.9	0.6
90°-100°	260.4	4.2
100°-110°	737.4	11.9
110°-120°	725.4	11.7
120°-130°	578.6	9.4
130°-140°	456.2	7.4
140°-150°	340.5	5.5
150°-160°	237.3	3.8
160°-170°	139.4	2.3
170°-180°	45.4	0.7
0°-30°	832.1	13.5
0°-40°	1360.9	22.0
0°-60°	2217.8	35.9
0°-90°	2662.5	43.1
90°-120°	1723.2	27.9
90°-150°	3098.5	50.1
90°-180°	3521.0	56.9
0°-180°	6183.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	881	881	881	881	881	
5°	1047	881	781	881	1047	108
15°	1558	843	637	843	1558	450
25°	1849	769	563	769	1849	811
35°	996	676	516	676	996	647
45°	538	554	439	554	538	426
55°	365	390	348	390	365	328
65°	237	241	246	241	237	236
75°	122	115	131	115	122	131
85°	28	23	26	23	28	34
90°	28	2	28	2	28	16
95°	110	32	110	32	110	198
105°	1205	110	1205	110	1205	1189
115°	1465	194	1465	194	1465	1424
125°	1156	270	1156	270	1156	1047
135°	937	316	937	316	937	727
145°	732	361	732	361	732	466
155°	607	410	607	410	607	283
165°	530	448	530	448	530	151
175°	476	467	476	467	476	46
180°	468	468	468	468	468	



TEST NUMBER: P331993-930

CATALOG NUMBER: S123DIP-S775D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	934.9	934.3	932.5	933.9	931.2	927.4	927.1	923.7	913.7	913.1	910.4
5°	1046.6	1043.2	1042.8	1042.3	1036.3	1028.3	1012.8	1011.5	991.1	980.8	968.5
7.5°	1191.2	1192.9	1186.7	1181.3	1163.0	1151.0	1134.5	1113.4	1088.3	1062.7	1045.7
10°	1295.0	1309.0	1291.6	1279.6	1268.5	1247.6	1223.3	1192.9	1162.7	1127.2	1100.3
12.5°	1406.3	1413.2	1409.7	1398.5	1381.2	1349.4	1306.3	1272.8	1245.0	1185.9	1162.1
15°	1557.9	1584.0	1567.3	1528.8	1529.7	1499.4	1443.1	1381.2	1348.3	1296.7	1226.3
17.5°	1719.4	1722.6	1715.6	1683.6	1662.2	1620.6	1568.6	1509.3	1442.7	1380.1	1305.5
20°	1805.5	1802.9	1788.0	1771.3	1734.6	1702.2	1645.4	1579.2	1493.9	1432.4	1350.9
22.5°	1853.3	1849.0	1841.9	1828.0	1797.4	1762.6	1711.6	1639.3	1558.1	1473.4	1379.2
25°	1849.0	1854.6	1855.4	1851.5	1840.9	1820.0	1779.9	1722.2	1641.1	1532.3	1434.1
27.5°	1681.7	1689.5	1712.4	1732.6	1755.2	1778.2	1775.2	1746.5	1686.5	1592.6	1472.5
30°	1514.3	1497.3	1539.5	1592.9	1629.2	1693.2	1729.1	1731.2	1697.5	1616.8	1499.8
32.5°	1282.1	1301.0	1319.6	1385.3	1464.6	1536.5	1607.9	1665.3	1671.9	1618.2	1515.9
35°	996.2	1019.7	1053.9	1087.9	1173.4	1246.8	1372.2	1481.5	1568.6	1580.1	1517.4
37.5°	802.7	814.4	836.0	870.2	926.0	1013.1	1110.2	1248.3	1374.4	1468.3	1472.3
40°	701.7	705.2	729.4	755.5	800.7	872.5	959.9	1082.0	1233.1	1364.2	1418.8
42.5°	625.9	633.4	643.8	668.7	704.7	758.7	840.1	940.9	1079.5	1230.3	1337.2
45°	537.8	546.3	552.8	569.4	595.0	631.3	688.0	780.2	885.7	1041.5	1185.3
47.5°	479.6	480.3	485.0	497.6	515.0	542.3	582.4	641.6	738.4	864.7	1012.4
50°	437.9	444.7	446.5	456.2	469.9	490.0	523.3	573.6	653.1	764.0	899.8
52.5°	408.5	410.6	415.4	422.5	434.4	450.0	478.9	518.4	580.7	675.2	800.1
55°	365.3	365.3	370.1	375.6	382.5	396.5	415.7	444.7	492.1	565.6	668.9
57.5°	325.4	327.5	330.8	332.6	338.3	347.7	363.7	385.8	421.1	477.6	559.7
60°	298.8	302.6	302.2	305.6	310.7	318.0	331.7	349.6	381.2	426.4	495.5
62.5°	275.6	275.3	275.2	279.3	284.5	291.4	300.2	315.8	342.6	382.7	441.6
65°	237.3	236.4	239.5	242.0	243.7	248.8	255.7	269.3	287.2	317.2	362.8
67.5°	203.3	200.9	202.5	203.3	206.3	210.3	216.6	225.1	239.4	263.3	297.7
70°	180.1	178.0	177.6	178.4	181.0	183.9	188.7	196.7	210.0	229.2	254.4
72.5°	156.2	154.7	154.7	156.5	157.8	159.7	163.1	170.5	181.0	195.4	218.9
75°	122.1	122.1	122.1	122.5	123.8	125.5	128.1	131.9	140.0	150.3	166.0
77.5°	91.5	91.4	90.9	90.8	92.7	93.5	94.1	97.7	102.2	109.1	120.6
80°	71.7	69.5	70.4	71.7	72.6	73.0	74.3	75.1	79.0	82.8	90.9
82.5°	53.2	51.4	51.6	53.6	53.8	54.2	55.5	56.7	58.1	61.6	66.0
85°	28.2	28.2	28.6	28.6	29.0	28.6	29.8	30.3	30.3	32.4	35.0
87.5°	15.7	15.2	15.4	15.6	15.4	15.3	15.5	15.7	15.8	16.3	16.1
90°	27.5	28.5	27.5	26.5	27.5	25.6	24.6	23.6	22.7	23.6	20.9
92.5°	45.7	47.4	46.4	49.2	51.0	55.8	63.3	79.7	109.9	145.7	160.3
95°	109.9	113.7	120.3	128.8	146.8	180.9	231.1	341.0	455.6	561.7	500.2
97.5°	299.1	307.3	332.9	375.5	445.4	558.7	680.9	850.0	931.3	870.5	637.3
100°	593.9	593.0	629.9	699.0	794.8	929.3	1040.1	1116.8	1083.7	897.1	606.3
102.5°	871.3	893.1	924.0	978.7	1053.1	1138.4	1203.0	1205.5	1091.2	847.8	560.8
105°	1204.9	1209.7	1240.0	1275.9	1319.6	1344.2	1326.2	1231.4	1033.5	761.6	504.9
107.5°	1397.0	1405.7	1415.9	1428.1	1427.3	1393.6	1310.6	1156.7	932.3	685.4	469.3
110°	1475.9	1477.7	1479.6	1472.0	1445.5	1379.2	1259.9	1085.6	868.6	642.2	455.6



TEST NUMBER: P331993-930

CATALOG NUMBER: S123DIP-S775D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1491.8	1491.3	1484.2	1460.7	1412.2	1326.9	1193.2	1015.0	813.3	613.4	448.1
115°	1465.4	1460.7	1441.7	1400.0	1329.0	1225.7	1086.5	921.7	746.4	582.5	445.2
117.5°	1381.7	1375.2	1347.9	1300.2	1226.1	1121.4	996.3	854.0	706.0	564.4	446.9
120°	1312.0	1306.3	1283.5	1230.4	1155.7	1060.0	946.3	818.4	684.9	556.0	450.0
122.5°	1246.8	1239.6	1214.6	1166.9	1100.3	1011.5	906.1	790.4	667.4	550.7	455.3
125°	1155.7	1149.0	1125.4	1083.7	1023.0	947.2	856.3	753.1	645.1	543.7	463.2
127.5°	1080.6	1074.6	1053.1	1017.6	963.5	894.5	812.5	720.5	625.4	540.3	472.3
130°	1038.2	1030.6	1010.7	976.6	926.4	862.0	785.3	700.0	614.7	538.0	478.3
132.5°	996.5	991.2	973.5	939.5	892.3	831.0	759.5	681.1	605.0	537.3	482.9
135°	936.9	930.2	913.1	884.8	838.3	784.3	722.8	655.5	592.1	536.1	489.8
137.5°	873.8	869.4	855.0	826.2	787.2	740.4	687.3	632.2	580.8	534.0	494.3
140°	829.8	830.7	815.6	789.0	753.1	712.3	666.8	618.6	574.1	533.3	497.3
142.5°	788.9	789.8	776.2	752.7	722.0	686.6	647.2	605.7	567.9	531.8	499.6
145°	732.2	730.3	722.8	702.9	679.1	651.8	621.4	590.1	559.9	529.5	501.1
147.5°	685.6	684.9	677.7	664.2	646.2	626.7	602.3	577.5	551.9	525.9	501.1
150°	658.4	658.4	652.6	642.2	628.0	610.0	590.1	568.3	546.6	522.9	501.1
152.5°	635.6	635.6	632.2	622.6	611.4	596.4	578.8	560.0	540.5	519.1	498.8
155°	607.2	606.3	604.4	596.8	588.2	576.9	562.6	547.5	531.4	512.5	496.4
157.5°	581.2	581.4	579.9	574.2	566.8	557.9	547.0	534.3	521.1	506.6	493.2
160°	564.6	565.5	565.5	559.9	553.2	546.6	537.1	526.7	514.4	502.1	491.6
162.5°	549.4	550.3	550.3	545.4	541.0	535.2	526.5	517.6	507.5	497.5	488.6
165°	529.5	529.5	530.4	526.7	522.9	518.1	511.5	505.8	498.2	490.6	484.0
167.5°	510.5	510.5	511.5	508.8	507.2	503.8	499.9	495.6	489.3	483.9	479.5
170°	499.2	499.2	500.2	498.2	497.3	495.4	491.6	488.8	484.0	479.3	476.5
172.5°	488.6	489.3	491.1	489.2	488.9	487.9	484.8	482.7	478.7	475.5	474.2
175°	476.5	477.4	478.3	477.4	477.4	477.4	475.5	474.6	472.7	470.8	470.8
177.5°	469.4	469.4	471.0	470.2	471.0	471.0	470.2	469.4	468.7	468.0	468.7
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



TEST NUMBER: P331993-930

CATALOG NUMBER: S123DIP-S775D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	908.2	905.6	902.8	898.1	894.0	888.1	886.4	884.4	878.2	872.8	868.7
5°	963.8	953.5	938.6	925.0	913.9	898.9	890.4	881.4	868.6	857.0	847.7
7.5°	1021.8	1001.7	978.4	953.3	929.9	907.4	889.2	873.0	855.1	838.1	824.9
10°	1067.9	1038.9	1006.5	971.4	941.6	912.6	888.2	866.9	843.8	823.8	807.1
12.5°	1120.5	1077.5	1032.7	990.3	954.9	914.6	885.2	858.0	831.8	807.7	789.0
15°	1182.8	1128.1	1075.1	1016.7	963.0	912.6	877.6	843.4	813.1	788.3	764.4
17.5°	1239.4	1177.5	1107.7	1036.7	971.8	912.1	863.1	824.4	786.5	756.3	732.5
20°	1271.5	1201.1	1122.1	1048.3	976.6	910.0	856.2	810.1	769.2	737.1	710.2
22.5°	1299.2	1216.8	1135.1	1056.1	976.2	904.5	843.6	796.1	751.7	720.4	691.8
25°	1327.9	1229.2	1147.3	1054.7	965.5	891.2	822.9	769.2	724.7	688.0	658.6
27.5°	1352.4	1228.4	1131.1	1031.5	948.6	874.2	801.2	743.6	696.4	656.6	626.6
30°	1368.8	1230.1	1114.4	1015.9	932.2	855.3	784.5	726.4	676.9	636.4	608.2
32.5°	1379.1	1229.1	1099.1	994.0	906.2	838.3	766.4	706.3	655.4	615.6	588.4
35°	1385.0	1221.6	1072.6	948.8	864.3	798.2	738.0	675.6	622.3	585.1	554.5
37.5°	1373.1	1205.7	1041.9	905.3	812.8	747.6	697.0	643.9	592.9	552.0	525.5
40°	1354.3	1195.6	1018.0	874.6	777.2	714.5	671.4	619.3	568.9	530.1	505.3
42.5°	1318.4	1174.7	991.6	840.4	740.4	677.6	638.0	594.4	546.7	510.3	485.6
45°	1230.9	1129.4	952.3	789.2	685.9	621.0	586.0	554.5	511.4	475.9	454.5
47.5°	1109.5	1061.2	895.2	735.2	629.1	566.6	530.3	504.8	473.4	444.7	424.3
50°	1025.2	1005.2	856.6	698.3	591.2	530.1	495.1	472.1	449.5	420.9	402.1
52.5°	927.9	940.3	811.5	660.1	552.5	492.5	459.6	441.3	420.8	397.3	380.9
55°	790.9	835.7	733.7	595.8	495.1	437.9	406.8	390.5	378.6	361.1	347.0
57.5°	662.6	719.7	649.5	529.7	438.7	389.4	359.5	341.8	334.1	325.0	313.9
60°	586.4	642.8	589.5	485.3	400.8	353.8	327.3	312.4	304.8	298.3	288.9
62.5°	518.5	575.5	530.7	440.3	363.5	320.0	297.0	282.4	276.4	273.0	265.1
65°	425.1	474.2	444.3	370.1	310.3	271.9	250.9	240.8	235.2	233.9	228.8
67.5°	346.0	383.4	361.6	307.0	259.9	226.7	209.0	200.2	196.0	195.6	191.8
70°	294.1	329.1	312.4	262.9	222.4	196.3	181.0	173.3	170.7	170.3	168.2
72.5°	253.8	278.2	265.0	223.6	192.3	168.7	157.4	149.4	146.5	147.1	145.6
75°	187.8	206.2	198.4	169.9	144.7	129.3	119.9	114.8	112.3	113.6	111.9
77.5°	135.1	146.8	139.8	120.0	104.5	93.4	86.5	83.3	81.0	81.0	80.1
80°	102.0	108.8	105.0	93.0	80.2	70.8	65.3	63.2	61.9	61.5	61.1
82.5°	72.6	78.4	73.9	65.7	57.0	51.4	48.3	45.4	44.5	44.8	44.3
85°	36.7	38.8	37.1	32.0	28.6	26.0	24.3	23.1	22.2	22.6	21.8
87.5°	16.2	16.0	14.4	12.6	11.6	10.0	9.6	8.6	8.2	8.6	8.9
90°	18.0	15.2	12.3	10.4	8.6	5.7	3.8	1.9	3.8	5.7	8.6
92.5°	120.3	79.6	54.8	40.8	32.8	25.4	17.4	11.7	17.4	25.4	32.8
95°	344.8	203.7	123.1	86.2	61.6	45.5	35.1	32.2	35.1	45.5	61.6
97.5°	378.3	219.2	142.3	102.3	78.0	64.0	55.8	55.0	55.8	64.0	78.0
100°	357.1	217.0	150.6	113.7	90.9	77.7	71.0	70.1	71.0	77.7	90.9
102.5°	338.9	220.0	160.5	126.5	106.1	93.6	87.7	86.0	87.7	93.6	106.1
105°	325.9	228.3	177.2	147.7	129.8	118.4	112.8	109.9	112.8	118.4	129.8
107.5°	324.9	243.9	198.9	171.6	154.7	143.6	138.1	135.3	138.1	143.6	154.7
110°	328.7	256.7	214.1	187.5	171.5	161.0	156.3	153.4	156.3	161.0	171.5



TEST NUMBER: P331993-930

CATALOG NUMBER: S123DIP-S775D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	336.3	269.6	230.0	204.2	188.1	177.7	173.0	170.2	173.0	177.7	188.1
115°	348.6	290.8	254.8	229.3	213.1	203.7	198.0	194.2	198.0	203.7	213.1
117.5°	364.8	313.3	277.8	254.0	236.0	227.3	222.6	218.3	222.6	227.3	236.0
120°	377.0	327.8	293.7	269.9	252.0	242.5	237.7	234.9	237.7	242.5	252.0
122.5°	388.4	342.9	309.6	284.4	267.1	256.9	252.2	249.3	252.2	256.9	267.1
125°	406.3	364.7	331.5	306.0	288.0	277.5	271.9	269.9	271.9	277.5	288.0
127.5°	421.2	383.6	351.6	326.0	306.1	295.5	288.5	285.7	288.5	295.5	306.1
130°	431.0	395.0	363.7	338.2	318.3	306.9	298.4	295.5	298.4	306.9	318.3
132.5°	440.1	404.9	374.4	349.5	329.6	316.0	306.7	303.1	306.7	316.0	329.6
135°	451.8	419.6	390.3	364.7	344.8	330.6	320.2	316.4	320.2	330.6	344.8
137.5°	460.6	429.8	401.6	378.0	358.2	343.1	332.9	328.9	332.9	343.1	358.2
140°	465.1	436.7	409.2	385.6	366.6	351.4	341.9	337.2	341.9	351.4	366.6
142.5°	469.6	442.0	415.3	393.1	374.1	360.5	350.3	346.3	350.3	360.5	374.1
145°	474.6	449.0	424.4	402.6	386.5	372.3	363.7	360.9	363.7	372.3	386.5
147.5°	477.6	454.7	432.1	413.6	398.0	385.7	377.4	375.7	377.4	385.7	398.0
150°	478.3	458.4	436.7	419.6	406.3	394.0	386.5	385.6	386.5	394.0	406.3
152.5°	479.9	460.7	442.0	425.7	413.9	403.2	395.6	395.4	395.6	403.2	413.9
155°	480.3	465.1	449.0	435.7	425.3	415.9	410.2	410.2	410.2	415.9	425.3
157.5°	481.2	467.6	454.7	444.4	435.5	427.2	422.7	421.9	422.7	427.2	435.5
160°	481.2	469.9	458.4	449.0	442.4	434.8	431.0	431.0	431.0	434.8	442.4
162.5°	480.5	470.6	460.7	452.8	446.9	440.8	437.8	437.8	437.8	440.8	446.9
165°	478.3	471.7	464.1	457.5	453.7	449.0	447.1	448.1	447.1	449.0	453.7
167.5°	476.9	471.6	466.0	461.9	459.3	455.6	454.7	455.8	454.7	455.6	459.3
170°	474.6	470.8	466.0	464.1	462.3	459.4	458.4	460.4	458.4	459.4	462.3
172.5°	473.9	470.8	466.8	465.7	464.6	462.4	462.3	463.4	462.3	462.4	464.6
175°	471.7	469.9	468.0	467.0	467.0	465.1	466.0	467.0	466.0	465.1	467.0
177.5°	470.2	468.7	468.0	468.0	468.0	467.2	468.0	468.7	468.0	467.2	468.0
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



TEST NUMBER: P331993-930

CATALOG NUMBER: S123DIP-S775D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	866.3	863.9	860.5	855.3	851.3	844.7	844.7	845.8	845.8	845.5	844.7
5°	840.0	833.6	825.9	816.9	807.6	798.2	796.5	793.0	790.5	788.8	786.6
7.5°	812.3	800.9	789.7	777.1	765.7	756.3	749.7	744.2	740.7	736.9	734.3
10°	793.4	779.3	766.1	752.9	738.4	726.9	719.7	714.5	710.7	707.3	705.6
12.5°	771.3	755.1	740.5	728.0	712.1	700.3	693.3	691.0	686.4	679.2	675.5
15°	738.8	723.9	706.4	687.2	679.5	665.0	656.9	653.1	650.4	644.9	643.2
17.5°	711.1	691.5	671.9	657.5	643.3	631.5	627.0	622.2	618.8	614.2	612.9
20°	688.9	671.4	653.5	638.1	623.1	610.3	606.5	603.1	599.7	597.5	595.8
22.5°	666.3	648.9	634.0	619.6	603.7	595.3	591.2	587.4	585.0	583.6	581.9
25°	634.7	619.3	602.7	589.9	577.1	571.5	568.9	566.8	565.1	563.0	562.6
27.5°	606.3	589.6	576.1	564.2	555.0	550.3	547.9	546.8	547.2	548.0	548.5
30°	585.1	569.8	558.7	548.5	540.0	535.7	535.2	535.2	537.0	537.4	538.3
32.5°	565.7	553.1	542.0	532.1	525.6	522.7	524.3	524.3	525.7	526.8	528.3
35°	537.4	526.3	517.7	509.2	503.7	504.9	505.8	506.6	508.7	511.4	513.1
37.5°	510.3	500.7	491.8	485.1	482.6	484.9	486.9	488.7	491.2	493.2	494.9
40°	490.8	483.6	475.1	469.0	469.9	471.2	473.0	475.1	477.2	478.5	480.2
42.5°	472.7	465.1	458.7	453.7	454.9	456.6	457.5	458.7	461.1	463.4	464.5
45°	445.2	439.2	433.3	430.2	431.1	431.9	432.8	434.1	436.2	437.9	438.4
47.5°	414.2	410.0	406.0	403.1	404.5	404.1	405.2	408.0	408.6	409.7	412.1
50°	394.4	390.5	385.9	385.0	385.0	385.0	385.4	388.8	388.8	390.5	392.2
52.5°	372.5	370.1	367.0	365.5	364.8	364.8	366.6	368.4	369.0	371.5	373.2
55°	340.1	337.6	335.1	333.8	332.9	333.8	337.2	338.0	340.1	341.4	342.8
57.5°	306.5	304.5	302.5	301.7	301.6	302.7	304.6	307.1	307.7	311.6	313.6
60°	284.3	281.3	279.6	279.6	278.8	282.6	281.7	286.0	286.8	289.3	292.4
62.5°	261.4	257.4	256.7	256.7	257.9	259.0	260.2	262.0	264.3	267.5	269.9
65°	224.5	222.4	225.3	224.9	224.0	226.7	226.7	228.8	231.3	234.3	239.0
67.5°	189.6	188.5	188.7	188.7	190.0	191.5	192.7	194.5	197.6	200.8	203.8
70°	166.0	167.3	165.2	166.9	168.2	168.6	169.4	172.0	175.5	177.6	181.0
72.5°	143.2	143.1	143.3	144.0	145.3	146.0	146.9	149.9	153.6	155.4	158.1
75°	110.1	109.7	111.0	111.0	113.1	114.0	114.8	116.1	119.5	122.1	124.2
77.5°	80.4	81.0	80.6	82.1	81.5	81.7	84.3	85.6	85.9	91.0	92.1
80°	60.6	61.5	61.9	62.3	62.8	61.9	64.9	66.1	66.1	69.1	71.3
82.5°	43.5	44.0	45.2	45.6	45.7	46.6	46.8	47.7	48.8	50.1	52.8
85°	21.8	23.1	23.5	23.1	23.5	22.6	23.9	24.3	24.8	24.8	24.8
87.5°	8.9	9.6	9.9	10.8	11.0	11.9	11.7	11.3	11.4	12.6	11.7
90°	10.4	12.3	15.2	18.0	20.9	23.6	22.7	23.6	24.6	25.6	27.5
92.5°	40.8	54.8	79.6	120.3	160.3	145.7	109.9	79.7	63.3	55.8	51.0
95°	86.2	123.1	203.7	344.8	500.2	561.7	455.6	341.0	231.1	180.9	146.8
97.5°	102.3	142.3	219.2	378.3	637.3	870.5	931.3	850.0	680.9	558.7	445.4
100°	113.7	150.6	217.0	357.1	606.3	897.1	1083.7	1116.8	1040.1	929.3	794.8
102.5°	126.5	160.5	220.0	338.9	560.8	847.8	1091.2	1205.5	1203.0	1138.4	1053.1
105°	147.7	177.2	228.3	325.9	504.9	761.6	1033.5	1231.4	1326.2	1344.2	1319.6
107.5°	171.6	198.9	243.9	324.9	469.3	685.4	932.3	1156.7	1310.6	1393.6	1427.3
110°	187.5	214.1	256.7	328.7	455.6	642.2	868.6	1085.6	1259.9	1379.2	1445.5



TEST NUMBER: P331993-930

CATALOG NUMBER: S123DIP-S775D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	204.2	230.0	269.6	336.3	448.1	613.4	813.3	1015.0	1193.2	1326.9	1412.2
115°	229.3	254.8	290.8	348.6	445.2	582.5	746.4	921.7	1086.5	1225.7	1329.0
117.5°	254.0	277.8	313.3	364.8	446.9	564.4	706.0	854.0	996.3	1121.4	1226.1
120°	269.9	293.7	327.8	377.0	450.0	556.0	684.9	818.4	946.3	1060.0	1155.7
122.5°	284.4	309.6	342.9	388.4	455.3	550.7	667.4	790.4	906.1	1011.5	1100.3
125°	306.0	331.5	364.7	406.3	463.2	543.7	645.1	753.1	856.3	947.2	1023.0
127.5°	326.0	351.6	383.6	421.2	472.3	540.3	625.4	720.5	812.5	894.5	963.5
130°	338.2	363.7	395.0	431.0	478.3	538.0	614.7	700.0	785.3	862.0	926.4
132.5°	349.5	374.4	404.9	440.1	482.9	537.3	605.0	681.1	759.5	831.0	892.3
135°	364.7	390.3	419.6	451.8	489.8	536.1	592.1	655.5	722.8	784.3	838.3
137.5°	378.0	401.6	429.8	460.6	494.3	534.0	580.8	632.2	687.3	740.4	787.2
140°	385.6	409.2	436.7	465.1	497.3	533.3	574.1	618.6	666.8	712.3	753.1
142.5°	393.1	415.3	442.0	469.6	499.6	531.8	567.9	605.7	647.2	686.6	722.0
145°	402.6	424.4	449.0	474.6	501.1	529.5	559.9	590.1	621.4	651.8	679.1
147.5°	413.6	432.1	454.7	477.6	501.1	525.9	551.9	577.5	602.3	626.7	646.2
150°	419.6	436.7	458.4	478.3	501.1	522.9	546.6	568.3	590.1	610.0	628.0
152.5°	425.7	442.0	460.7	479.9	498.8	519.1	540.5	560.0	578.8	596.4	611.4
155°	435.7	449.0	465.1	480.3	496.4	512.5	531.4	547.5	562.6	576.9	588.2
157.5°	444.4	454.7	467.6	481.2	493.2	506.6	521.1	534.3	547.0	557.9	566.8
160°	449.0	458.4	469.9	481.2	491.6	502.1	514.4	526.7	537.1	546.6	553.2
162.5°	452.8	460.7	470.6	480.5	488.6	497.5	507.5	517.6	526.5	535.2	541.0
165°	457.5	464.1	471.7	478.3	484.0	490.6	498.2	505.8	511.5	518.1	522.9
167.5°	461.9	466.0	471.6	476.9	479.5	483.9	489.3	495.6	499.9	503.8	507.2
170°	464.1	466.0	470.8	474.6	476.5	479.3	484.0	488.8	491.6	495.4	497.3
172.5°	465.7	466.8	470.8	473.9	474.2	475.5	478.7	482.7	484.8	487.9	488.9
175°	467.0	468.0	469.9	471.7	470.8	470.8	472.7	474.6	475.5	477.4	477.4
177.5°	468.0	468.0	468.7	470.2	468.7	468.0	468.7	469.4	470.2	471.0	471.0
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



TEST NUMBER: P331993-930

CATALOG NUMBER: S123DIP-S775D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	842.4	842.0	844.4	842.7	844.4	842.0	842.4	844.7	845.5	845.8	845.8
5°	784.1	785.4	781.1	781.1	781.1	785.4	784.1	786.6	788.8	790.5	793.0
7.5°	732.1	730.3	730.4	728.1	730.4	730.3	732.1	734.3	736.9	740.7	744.2
10°	700.4	697.9	697.0	697.4	697.0	697.9	700.4	705.6	707.3	710.7	714.5
12.5°	674.1	673.6	668.0	668.1	668.0	673.6	674.1	675.5	679.2	686.4	691.0
15°	643.2	635.1	634.2	636.8	634.2	635.1	643.2	643.2	644.9	650.4	653.1
17.5°	612.2	608.0	608.2	606.9	608.2	608.0	612.2	612.9	614.2	618.8	622.2
20°	595.8	593.3	592.9	589.9	592.9	593.3	595.8	595.8	597.5	599.7	603.1
22.5°	580.8	580.0	580.2	576.9	580.2	580.0	580.8	581.9	583.6	585.0	587.4
25°	562.1	564.3	562.6	562.6	562.6	564.3	562.1	562.6	563.0	565.1	566.8
27.5°	549.5	549.4	548.5	548.5	548.5	549.4	549.5	548.5	548.0	547.2	546.8
30°	540.0	539.5	540.4	540.4	540.4	539.5	540.0	538.3	537.4	537.0	535.2
32.5°	530.4	531.0	531.2	531.5	531.2	531.0	530.4	528.3	526.8	525.7	524.3
35°	515.6	516.0	517.3	516.5	517.3	516.0	515.6	513.1	511.4	508.7	506.6
37.5°	495.6	497.6	497.2	497.8	497.2	497.6	495.6	494.9	493.2	491.2	488.7
40°	480.6	481.9	481.4	481.4	481.4	481.9	480.6	480.2	478.5	477.2	475.1
42.5°	465.2	466.2	465.0	464.4	465.0	466.2	465.2	464.5	463.4	461.1	458.7
45°	440.0	439.2	440.5	438.8	440.5	439.2	440.0	438.4	437.9	436.2	434.1
47.5°	411.9	412.7	413.1	414.3	413.1	412.7	411.9	412.1	409.7	408.6	408.0
50°	393.1	395.7	395.7	395.3	395.7	395.7	393.1	392.2	390.5	388.8	388.8
52.5°	374.6	375.9	377.6	377.5	377.6	375.9	374.6	373.2	371.5	369.0	368.4
55°	346.2	347.0	347.9	348.3	347.9	347.0	346.2	342.8	341.4	340.1	338.0
57.5°	316.6	316.3	318.3	318.9	318.3	316.3	316.6	313.6	311.6	307.7	307.1
60°	295.8	295.8	299.2	300.5	299.2	295.8	295.8	292.4	289.3	286.8	286.0
62.5°	273.6	275.0	278.3	276.5	278.3	275.0	273.6	269.9	267.5	264.3	262.0
65°	241.2	244.6	244.2	245.8	244.2	244.6	241.2	239.0	234.3	231.3	228.8
67.5°	207.2	209.4	212.5	212.7	212.5	209.4	207.2	203.8	200.8	197.6	194.5
70°	184.4	186.5	188.3	189.5	188.3	186.5	184.4	181.0	177.6	175.5	172.0
72.5°	162.2	163.3	167.4	165.6	167.4	163.3	162.2	158.1	155.4	153.6	149.9
75°	127.2	130.2	132.7	131.4	132.7	130.2	127.2	124.2	122.1	119.5	116.1
77.5°	94.1	97.0	98.2	97.2	98.2	97.0	94.1	92.1	91.0	85.9	85.6
80°	74.3	73.9	76.4	76.0	76.4	73.9	74.3	71.3	69.1	66.1	66.1
82.5°	54.5	54.1	55.2	55.5	55.2	54.1	54.5	52.8	50.1	48.8	47.7
85°	26.5	27.7	26.0	25.6	26.0	27.7	26.5	24.8	24.8	24.8	24.3
87.5°	11.4	11.7	11.5	10.9	11.5	11.7	11.4	11.7	12.6	11.4	11.3
90°	26.5	27.5	28.5	27.5	28.5	27.5	26.5	27.5	25.6	24.6	23.6
92.5°	49.2	46.4	47.4	45.7	47.4	46.4	49.2	51.0	55.8	63.3	79.7
95°	128.8	120.3	113.7	109.9	113.7	120.3	128.8	146.8	180.9	231.1	341.0
97.5°	375.5	332.9	307.3	299.1	307.3	332.9	375.5	445.4	558.7	680.9	850.0
100°	699.0	629.9	593.0	593.9	593.0	629.9	699.0	794.8	929.3	1040.1	1116.8
102.5°	978.7	924.0	893.1	871.3	893.1	924.0	978.7	1053.1	1138.4	1203.0	1205.5
105°	1275.9	1240.0	1209.7	1204.9	1209.7	1240.0	1275.9	1319.6	1344.2	1326.2	1231.4
107.5°	1428.1	1415.9	1405.7	1397.0	1405.7	1415.9	1428.1	1427.3	1393.6	1310.6	1156.7
110°	1472.0	1479.6	1477.7	1475.9	1477.7	1479.6	1472.0	1445.5	1379.2	1259.9	1085.6



TEST NUMBER: P331993-930

CATALOG NUMBER: S123DIP-S775D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1460.7	1484.2	1491.3	1491.8	1491.3	1484.2	1460.7	1412.2	1326.9	1193.2	1015.0
115°	1400.0	1441.7	1460.7	1465.4	1460.7	1441.7	1400.0	1329.0	1225.7	1086.5	921.7
117.5°	1300.2	1347.9	1375.2	1381.7	1375.2	1347.9	1300.2	1226.1	1121.4	996.3	854.0
120°	1230.4	1283.5	1306.3	1312.0	1306.3	1283.5	1230.4	1155.7	1060.0	946.3	818.4
122.5°	1166.9	1214.6	1239.6	1246.8	1239.6	1214.6	1166.9	1100.3	1011.5	906.1	790.4
125°	1083.7	1125.4	1149.0	1155.7	1149.0	1125.4	1083.7	1023.0	947.2	856.3	753.1
127.5°	1017.6	1053.1	1074.6	1080.6	1074.6	1053.1	1017.6	963.5	894.5	812.5	720.5
130°	976.6	1010.7	1030.6	1038.2	1030.6	1010.7	976.6	926.4	862.0	785.3	700.0
132.5°	939.5	973.5	991.2	996.5	991.2	973.5	939.5	892.3	831.0	759.5	681.1
135°	884.8	913.1	930.2	936.9	930.2	913.1	884.8	838.3	784.3	722.8	655.5
137.5°	826.2	855.0	869.4	873.8	869.4	855.0	826.2	787.2	740.4	687.3	632.2
140°	789.0	815.6	830.7	829.8	830.7	815.6	789.0	753.1	712.3	666.8	618.6
142.5°	752.7	776.2	789.8	788.9	789.8	776.2	752.7	722.0	686.6	647.2	605.7
145°	702.9	722.8	730.3	732.2	730.3	722.8	702.9	679.1	651.8	621.4	590.1
147.5°	664.2	677.7	684.9	685.6	684.9	677.7	664.2	646.2	626.7	602.3	577.5
150°	642.2	652.6	658.4	658.4	658.4	652.6	642.2	628.0	610.0	590.1	568.3
152.5°	622.6	632.2	635.6	635.6	635.6	632.2	622.6	611.4	596.4	578.8	560.0
155°	596.8	604.4	606.3	607.2	606.3	604.4	596.8	588.2	576.9	562.6	547.5
157.5°	574.2	579.9	581.4	581.2	581.4	579.9	574.2	566.8	557.9	547.0	534.3
160°	559.9	565.5	565.5	564.6	565.5	565.5	559.9	553.2	546.6	537.1	526.7
162.5°	545.4	550.3	550.3	549.4	550.3	550.3	545.4	541.0	535.2	526.5	517.6
165°	526.7	530.4	529.5	529.5	529.5	530.4	526.7	522.9	518.1	511.5	505.8
167.5°	508.8	511.5	510.5	510.5	510.5	511.5	508.8	507.2	503.8	499.9	495.6
170°	498.2	500.2	499.2	499.2	499.2	500.2	498.2	497.3	495.4	491.6	488.8
172.5°	489.2	491.1	489.3	488.6	489.3	491.1	489.2	488.9	487.9	484.8	482.7
175°	477.4	478.3	477.4	476.5	477.4	478.3	477.4	477.4	477.4	475.5	474.6
177.5°	470.2	471.0	469.4	469.4	469.4	471.0	470.2	471.0	471.0	470.2	469.4
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



TEST NUMBER: P331993-930

CATALOG NUMBER: S123DIP-S775D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	844.7	844.7	851.3	855.3	860.5	863.9	866.3	868.7	872.8	878.2	884.4
5°	796.5	798.2	807.6	816.9	825.9	833.6	840.0	847.7	857.0	868.6	881.4
7.5°	749.7	756.3	765.7	777.1	789.7	800.9	812.3	824.9	838.1	855.1	873.0
10°	719.7	726.9	738.4	752.9	766.1	779.3	793.4	807.1	823.8	843.8	866.9
12.5°	693.3	700.3	712.1	728.0	740.5	755.1	771.3	789.0	807.7	831.8	858.0
15°	656.9	665.0	679.5	687.2	706.4	723.9	738.8	764.4	788.3	813.1	843.4
17.5°	627.0	631.5	643.3	657.5	671.9	691.5	711.1	732.5	756.3	786.5	824.4
20°	606.5	610.3	623.1	638.1	653.5	671.4	688.9	710.2	737.1	769.2	810.1
22.5°	591.2	595.3	603.7	619.6	634.0	648.9	666.3	691.8	720.4	751.7	796.1
25°	568.9	571.5	577.1	589.9	602.7	619.3	634.7	658.6	688.0	724.7	769.2
27.5°	547.9	550.3	555.0	564.2	576.1	589.6	606.3	626.6	656.6	696.4	743.6
30°	535.2	535.7	540.0	548.5	558.7	569.8	585.1	608.2	636.4	676.9	726.4
32.5°	524.3	522.7	525.6	532.1	542.0	553.1	565.7	588.4	615.6	655.4	706.3
35°	505.8	504.9	503.7	509.2	517.7	526.3	537.4	554.5	585.1	622.3	675.6
37.5°	486.9	484.9	482.6	485.1	491.8	500.7	510.3	525.5	552.0	592.9	643.9
40°	473.0	471.2	469.9	469.0	475.1	483.6	490.8	505.3	530.1	568.9	619.3
42.5°	457.5	456.6	454.9	453.7	458.7	465.1	472.7	485.6	510.3	546.7	594.4
45°	432.8	431.9	431.1	430.2	433.3	439.2	445.2	454.5	475.9	511.4	554.5
47.5°	405.2	404.1	404.5	403.1	406.0	410.0	414.2	424.3	444.7	473.4	504.8
50°	385.4	385.0	385.0	385.0	385.9	390.5	394.4	402.1	420.9	449.5	472.1
52.5°	366.6	364.8	364.8	365.5	367.0	370.1	372.5	380.9	397.3	420.8	441.3
55°	337.2	333.8	332.9	333.8	335.1	337.6	340.1	347.0	361.1	378.6	390.5
57.5°	304.6	302.7	301.6	301.7	302.5	304.5	306.5	313.9	325.0	334.1	341.8
60°	281.7	282.6	278.8	279.6	279.6	281.3	284.3	288.9	298.3	304.8	312.4
62.5°	260.2	259.0	257.9	256.7	256.7	257.4	261.4	265.1	273.0	276.4	282.4
65°	226.7	226.7	224.0	224.9	225.3	222.4	224.5	228.8	233.9	235.2	240.8
67.5°	192.7	191.5	190.0	188.7	188.7	188.5	189.6	191.8	195.6	196.0	200.2
70°	169.4	168.6	168.2	166.9	165.2	167.3	166.0	168.2	170.3	170.7	173.3
72.5°	146.9	146.0	145.3	144.0	143.3	143.1	143.2	145.6	147.1	146.5	149.4
75°	114.8	114.0	113.1	111.0	111.0	109.7	110.1	111.9	113.6	112.3	114.8
77.5°	84.3	81.7	81.5	82.1	80.6	81.0	80.4	80.1	81.0	81.0	83.3
80°	64.9	61.9	62.8	62.3	61.9	61.5	60.6	61.1	61.5	61.9	63.2
82.5°	46.8	46.6	45.7	45.6	45.2	44.0	43.5	44.3	44.8	44.5	45.4
85°	23.9	22.6	23.5	23.1	23.5	23.1	21.8	21.8	22.6	22.2	23.1
87.5°	11.7	11.9	11.0	10.8	9.9	9.6	8.9	8.9	8.6	8.2	8.6
90°	22.7	23.6	20.9	18.0	15.2	12.3	10.4	8.6	5.7	3.8	1.9
92.5°	109.9	145.7	160.3	120.3	79.6	54.8	40.8	32.8	25.4	17.4	11.7
95°	455.6	561.7	500.2	344.8	203.7	123.1	86.2	61.6	45.5	35.1	32.2
97.5°	931.3	870.5	637.3	378.3	219.2	142.3	102.3	78.0	64.0	55.8	55.0
100°	1083.7	897.1	606.3	357.1	217.0	150.6	113.7	90.9	77.7	71.0	70.1
102.5°	1091.2	847.8	560.8	338.9	220.0	160.5	126.5	106.1	93.6	87.7	86.0
105°	1033.5	761.6	504.9	325.9	228.3	177.2	147.7	129.8	118.4	112.8	109.9
107.5°	932.3	685.4	469.3	324.9	243.9	198.9	171.6	154.7	143.6	138.1	135.3
110°	868.6	642.2	455.6	328.7	256.7	214.1	187.5	171.5	161.0	156.3	153.4



TEST NUMBER: P331993-930

CATALOG NUMBER: S123DIP-S775D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	813.3	613.4	448.1	336.3	269.6	230.0	204.2	188.1	177.7	173.0	170.2
115°	746.4	582.5	445.2	348.6	290.8	254.8	229.3	213.1	203.7	198.0	194.2
117.5°	706.0	564.4	446.9	364.8	313.3	277.8	254.0	236.0	227.3	222.6	218.3
120°	684.9	556.0	450.0	377.0	327.8	293.7	269.9	252.0	242.5	237.7	234.9
122.5°	667.4	550.7	455.3	388.4	342.9	309.6	284.4	267.1	256.9	252.2	249.3
125°	645.1	543.7	463.2	406.3	364.7	331.5	306.0	288.0	277.5	271.9	269.9
127.5°	625.4	540.3	472.3	421.2	383.6	351.6	326.0	306.1	295.5	288.5	285.7
130°	614.7	538.0	478.3	431.0	395.0	363.7	338.2	318.3	306.9	298.4	295.5
132.5°	605.0	537.3	482.9	440.1	404.9	374.4	349.5	329.6	316.0	306.7	303.1
135°	592.1	536.1	489.8	451.8	419.6	390.3	364.7	344.8	330.6	320.2	316.4
137.5°	580.8	534.0	494.3	460.6	429.8	401.6	378.0	358.2	343.1	332.9	328.9
140°	574.1	533.3	497.3	465.1	436.7	409.2	385.6	366.6	351.4	341.9	337.2
142.5°	567.9	531.8	499.6	469.6	442.0	415.3	393.1	374.1	360.5	350.3	346.3
145°	559.9	529.5	501.1	474.6	449.0	424.4	402.6	386.5	372.3	363.7	360.9
147.5°	551.9	525.9	501.1	477.6	454.7	432.1	413.6	398.0	385.7	377.4	375.7
150°	546.6	522.9	501.1	478.3	458.4	436.7	419.6	406.3	394.0	386.5	385.6
152.5°	540.5	519.1	498.8	479.9	460.7	442.0	425.7	413.9	403.2	395.6	395.4
155°	531.4	512.5	496.4	480.3	465.1	449.0	435.7	425.3	415.9	410.2	410.2
157.5°	521.1	506.6	493.2	481.2	467.6	454.7	444.4	435.5	427.2	422.7	421.9
160°	514.4	502.1	491.6	481.2	469.9	458.4	449.0	442.4	434.8	431.0	431.0
162.5°	507.5	497.5	488.6	480.5	470.6	460.7	452.8	446.9	440.8	437.8	437.8
165°	498.2	490.6	484.0	478.3	471.7	464.1	457.5	453.7	449.0	447.1	448.1
167.5°	489.3	483.9	479.5	476.9	471.6	466.0	461.9	459.3	455.6	454.7	455.8
170°	484.0	479.3	476.5	474.6	470.8	466.0	464.1	462.3	459.4	458.4	460.4
172.5°	478.7	475.5	474.2	473.9	470.8	466.8	465.7	464.6	462.4	462.3	463.4
175°	472.7	470.8	470.8	471.7	469.9	468.0	467.0	467.0	465.1	466.0	467.0
177.5°	468.7	468.0	468.7	470.2	468.7	468.0	468.0	468.0	467.2	468.0	468.7
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



TEST NUMBER: P331993-930

CATALOG NUMBER: S123DIP-S775D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	886.4	888.1	894.0	898.1	902.8	905.6	908.2	910.4	913.1	913.7	923.7
5°	890.4	898.9	913.9	925.0	938.6	953.5	963.8	968.5	980.8	991.1	1011.5
7.5°	889.2	907.4	929.9	953.3	978.4	1001.7	1021.8	1045.7	1062.7	1088.3	1113.4
10°	888.2	912.6	941.6	971.4	1006.5	1038.9	1067.9	1100.3	1127.2	1162.7	1192.9
12.5°	885.2	914.6	954.9	990.3	1032.7	1077.5	1120.5	1162.1	1185.9	1245.0	1272.8
15°	877.6	912.6	963.0	1016.7	1075.1	1128.1	1182.8	1226.3	1296.7	1348.3	1381.2
17.5°	863.1	912.1	971.8	1036.7	1107.7	1177.5	1239.4	1305.5	1380.1	1442.7	1509.3
20°	856.2	910.0	976.6	1048.3	1122.1	1201.1	1271.5	1350.9	1432.4	1493.9	1579.2
22.5°	843.6	904.5	976.2	1056.1	1135.1	1216.8	1299.2	1379.2	1473.4	1558.1	1639.3
25°	822.9	891.2	965.5	1054.7	1147.3	1229.2	1327.9	1434.1	1532.3	1641.1	1722.2
27.5°	801.2	874.2	948.6	1031.5	1131.1	1228.4	1352.4	1472.5	1592.6	1686.5	1746.5
30°	784.5	855.3	932.2	1015.9	1114.4	1230.1	1368.8	1499.8	1616.8	1697.5	1731.2
32.5°	766.4	838.3	906.2	994.0	1099.1	1229.1	1379.1	1515.9	1618.2	1671.9	1665.3
35°	738.0	798.2	864.3	948.8	1072.6	1221.6	1385.0	1517.4	1580.1	1568.6	1481.5
37.5°	697.0	747.6	812.8	905.3	1041.9	1205.7	1373.1	1472.3	1468.3	1374.4	1248.3
40°	671.4	714.5	777.2	874.6	1018.0	1195.6	1354.3	1418.8	1364.2	1233.1	1082.0
42.5°	638.0	677.6	740.4	840.4	991.6	1174.7	1318.4	1337.2	1230.3	1079.5	940.9
45°	586.0	621.0	685.9	789.2	952.3	1129.4	1230.9	1185.3	1041.5	885.7	780.2
47.5°	530.3	566.6	629.1	735.2	895.2	1061.2	1109.5	1012.4	864.7	738.4	641.6
50°	495.1	530.1	591.2	698.3	856.6	1005.2	1025.2	899.8	764.0	653.1	573.6
52.5°	459.6	492.5	552.5	660.1	811.5	940.3	927.9	800.1	675.2	580.7	518.4
55°	406.8	437.9	495.1	595.8	733.7	835.7	790.9	668.9	565.6	492.1	444.7
57.5°	359.5	389.4	438.7	529.7	649.5	719.7	662.6	559.7	477.6	421.1	385.8
60°	327.3	353.8	400.8	485.3	589.5	642.8	586.4	495.5	426.4	381.2	349.6
62.5°	297.0	320.0	363.5	440.3	530.7	575.5	518.5	441.6	382.7	342.6	315.8
65°	250.9	271.9	310.3	370.1	444.3	474.2	425.1	362.8	317.2	287.2	269.3
67.5°	209.0	226.7	259.9	307.0	361.6	383.4	346.0	297.7	263.3	239.4	225.1
70°	181.0	196.3	222.4	262.9	312.4	329.1	294.1	254.4	229.2	210.0	196.7
72.5°	157.4	168.7	192.3	223.6	265.0	278.2	253.8	218.9	195.4	181.0	170.5
75°	119.9	129.3	144.7	169.9	198.4	206.2	187.8	166.0	150.3	140.0	131.9
77.5°	86.5	93.4	104.5	120.0	139.8	146.8	135.1	120.6	109.1	102.2	97.7
80°	65.3	70.8	80.2	93.0	105.0	108.8	102.0	90.9	82.8	79.0	75.1
82.5°	48.3	51.4	57.0	65.7	73.9	78.4	72.6	66.0	61.6	58.1	56.7
85°	24.3	26.0	28.6	32.0	37.1	38.8	36.7	35.0	32.4	30.3	30.3
87.5°	9.6	10.0	11.6	12.6	14.4	16.0	16.2	16.1	16.3	15.8	15.7
90°	3.8	5.7	8.6	10.4	12.3	15.2	18.0	20.9	23.6	22.7	23.6
92.5°	17.4	25.4	32.8	40.8	54.8	79.6	120.3	160.3	145.7	109.9	79.7
95°	35.1	45.5	61.6	86.2	123.1	203.7	344.8	500.2	561.7	455.6	341.0
97.5°	55.8	64.0	78.0	102.3	142.3	219.2	378.3	637.3	870.5	931.3	850.0
100°	71.0	77.7	90.9	113.7	150.6	217.0	357.1	606.3	897.1	1083.7	1116.8
102.5°	87.7	93.6	106.1	126.5	160.5	220.0	338.9	560.8	847.8	1091.2	1205.5
105°	112.8	118.4	129.8	147.7	177.2	228.3	325.9	504.9	761.6	1033.5	1231.4
107.5°	138.1	143.6	154.7	171.6	198.9	243.9	324.9	469.3	685.4	932.3	1156.7
110°	156.3	161.0	171.5	187.5	214.1	256.7	328.7	455.6	642.2	868.6	1085.6



TEST NUMBER: P331993-930

CATALOG NUMBER: S123DIP-S775D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	173.0	177.7	188.1	204.2	230.0	269.6	336.3	448.1	613.4	813.3	1015.0
115°	198.0	203.7	213.1	229.3	254.8	290.8	348.6	445.2	582.5	746.4	921.7
117.5°	222.6	227.3	236.0	254.0	277.8	313.3	364.8	446.9	564.4	706.0	854.0
120°	237.7	242.5	252.0	269.9	293.7	327.8	377.0	450.0	556.0	684.9	818.4
122.5°	252.2	256.9	267.1	284.4	309.6	342.9	388.4	455.3	550.7	667.4	790.4
125°	271.9	277.5	288.0	306.0	331.5	364.7	406.3	463.2	543.7	645.1	753.1
127.5°	288.5	295.5	306.1	326.0	351.6	383.6	421.2	472.3	540.3	625.4	720.5
130°	298.4	306.9	318.3	338.2	363.7	395.0	431.0	478.3	538.0	614.7	700.0
132.5°	306.7	316.0	329.6	349.5	374.4	404.9	440.1	482.9	537.3	605.0	681.1
135°	320.2	330.6	344.8	364.7	390.3	419.6	451.8	489.8	536.1	592.1	655.5
137.5°	332.9	343.1	358.2	378.0	401.6	429.8	460.6	494.3	534.0	580.8	632.2
140°	341.9	351.4	366.6	385.6	409.2	436.7	465.1	497.3	533.3	574.1	618.6
142.5°	350.3	360.5	374.1	393.1	415.3	442.0	469.6	499.6	531.8	567.9	605.7
145°	363.7	372.3	386.5	402.6	424.4	449.0	474.6	501.1	529.5	559.9	590.1
147.5°	377.4	385.7	398.0	413.6	432.1	454.7	477.6	501.1	525.9	551.9	577.5
150°	386.5	394.0	406.3	419.6	436.7	458.4	478.3	501.1	522.9	546.6	568.3
152.5°	395.6	403.2	413.9	425.7	442.0	460.7	479.9	498.8	519.1	540.5	560.0
155°	410.2	415.9	425.3	435.7	449.0	465.1	480.3	496.4	512.5	531.4	547.5
157.5°	422.7	427.2	435.5	444.4	454.7	467.6	481.2	493.2	506.6	521.1	534.3
160°	431.0	434.8	442.4	449.0	458.4	469.9	481.2	491.6	502.1	514.4	526.7
162.5°	437.8	440.8	446.9	452.8	460.7	470.6	480.5	488.6	497.5	507.5	517.6
165°	447.1	449.0	453.7	457.5	464.1	471.7	478.3	484.0	490.6	498.2	505.8
167.5°	454.7	455.6	459.3	461.9	466.0	471.6	476.9	479.5	483.9	489.3	495.6
170°	458.4	459.4	462.3	464.1	466.0	470.8	474.6	476.5	479.3	484.0	488.8
172.5°	462.3	462.4	464.6	465.7	466.8	470.8	473.9	474.2	475.5	478.7	482.7
175°	466.0	465.1	467.0	467.0	468.0	469.9	471.7	470.8	470.8	472.7	474.6
177.5°	468.0	467.2	468.0	468.0	468.0	468.7	470.2	468.7	468.0	468.7	469.4
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



TEST NUMBER: P331993-930

CATALOG NUMBER: S123DIP-S775D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	927.1	927.4	931.2	933.9	932.5	934.3	934.9
5°	1012.8	1028.3	1036.3	1042.3	1042.8	1043.2	1046.6
7.5°	1134.5	1151.0	1163.0	1181.3	1186.7	1192.9	1191.2
10°	1223.3	1247.6	1268.5	1279.6	1291.6	1309.0	1295.0
12.5°	1306.3	1349.4	1381.2	1398.5	1409.7	1413.2	1406.3
15°	1443.1	1499.4	1529.7	1528.8	1567.3	1584.0	1557.9
17.5°	1568.6	1620.6	1662.2	1683.6	1715.6	1722.6	1719.4
20°	1645.4	1702.2	1734.6	1771.3	1788.0	1802.9	1805.5
22.5°	1711.6	1762.6	1797.4	1828.0	1841.9	1849.0	1853.3
25°	1779.9	1820.0	1840.9	1851.5	1855.4	1854.6	1849.0
27.5°	1775.2	1778.2	1755.2	1732.6	1712.4	1689.5	1681.7
30°	1729.1	1693.2	1629.2	1592.9	1539.5	1497.3	1514.3
32.5°	1607.9	1536.5	1464.6	1385.3	1319.6	1301.0	1282.1
35°	1372.2	1246.8	1173.4	1087.9	1053.9	1019.7	996.2
37.5°	1110.2	1013.1	926.0	870.2	836.0	814.4	802.7
40°	959.9	872.5	800.7	755.5	729.4	705.2	701.7
42.5°	840.1	758.7	704.7	668.7	643.8	633.4	625.9
45°	688.0	631.3	595.0	569.4	552.8	546.3	537.8
47.5°	582.4	542.3	515.0	497.6	485.0	480.3	479.6
50°	523.3	490.0	469.9	456.2	446.5	444.7	437.9
52.5°	478.9	450.0	434.4	422.5	415.4	410.6	408.5
55°	415.7	396.5	382.5	375.6	370.1	365.3	365.3
57.5°	363.7	347.7	338.3	332.6	330.8	327.5	325.4
60°	331.7	318.0	310.7	305.6	302.2	302.6	298.8
62.5°	300.2	291.4	284.5	279.3	275.2	275.3	275.6
65°	255.7	248.8	243.7	242.0	239.5	236.4	237.3
67.5°	216.6	210.3	206.3	203.3	202.5	200.9	203.3
70°	188.7	183.9	181.0	178.4	177.6	178.0	180.1
72.5°	163.1	159.7	157.8	156.5	154.7	154.7	156.2
75°	128.1	125.5	123.8	122.5	122.1	122.1	122.1
77.5°	94.1	93.5	92.7	90.8	90.9	91.4	91.5
80°	74.3	73.0	72.6	71.7	70.4	69.5	71.7
82.5°	55.5	54.2	53.8	53.6	51.6	51.4	53.2
85°	29.8	28.6	29.0	28.6	28.6	28.2	28.2
87.5°	15.5	15.3	15.4	15.6	15.4	15.2	15.7
90°	24.6	25.6	27.5	26.5	27.5	28.5	27.5
92.5°	63.3	55.8	51.0	49.2	46.4	47.4	45.7
95°	231.1	180.9	146.8	128.8	120.3	113.7	109.9
97.5°	680.9	558.7	445.4	375.5	332.9	307.3	299.1
100°	1040.1	929.3	794.8	699.0	629.9	593.0	593.9
102.5°	1203.0	1138.4	1053.1	978.7	924.0	893.1	871.3
105°	1326.2	1344.2	1319.6	1275.9	1240.0	1209.7	1204.9
107.5°	1310.6	1393.6	1427.3	1428.1	1415.9	1405.7	1397.0
110°	1259.9	1379.2	1445.5	1472.0	1479.6	1477.7	1475.9



TEST NUMBER: P331993-930

CATALOG NUMBER: S123DIP-S775D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1193.2	1326.9	1412.2	1460.7	1484.2	1491.3	1491.8
115°	1086.5	1225.7	1329.0	1400.0	1441.7	1460.7	1465.4
117.5°	996.3	1121.4	1226.1	1300.2	1347.9	1375.2	1381.7
120°	946.3	1060.0	1155.7	1230.4	1283.5	1306.3	1312.0
122.5°	906.1	1011.5	1100.3	1166.9	1214.6	1239.6	1246.8
125°	856.3	947.2	1023.0	1083.7	1125.4	1149.0	1155.7
127.5°	812.5	894.5	963.5	1017.6	1053.1	1074.6	1080.6
130°	785.3	862.0	926.4	976.6	1010.7	1030.6	1038.2
132.5°	759.5	831.0	892.3	939.5	973.5	991.2	996.5
135°	722.8	784.3	838.3	884.8	913.1	930.2	936.9
137.5°	687.3	740.4	787.2	826.2	855.0	869.4	873.8
140°	666.8	712.3	753.1	789.0	815.6	830.7	829.8
142.5°	647.2	686.6	722.0	752.7	776.2	789.8	788.9
145°	621.4	651.8	679.1	702.9	722.8	730.3	732.2
147.5°	602.3	626.7	646.2	664.2	677.7	684.9	685.6
150°	590.1	610.0	628.0	642.2	652.6	658.4	658.4
152.5°	578.8	596.4	611.4	622.6	632.2	635.6	635.6
155°	562.6	576.9	588.2	596.8	604.4	606.3	607.2
157.5°	547.0	557.9	566.8	574.2	579.9	581.4	581.2
160°	537.1	546.6	553.2	559.9	565.5	565.5	564.6
162.5°	526.5	535.2	541.0	545.4	550.3	550.3	549.4
165°	511.5	518.1	522.9	526.7	530.4	529.5	529.5
167.5°	499.9	503.8	507.2	508.8	511.5	510.5	510.5
170°	491.6	495.4	497.3	498.2	500.2	499.2	499.2
172.5°	484.8	487.9	488.9	489.2	491.1	489.3	488.6
175°	475.5	477.4	477.4	477.4	478.3	477.4	476.5
177.5°	470.2	471.0	471.0	470.2	471.0	469.4	469.4
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0

(END OF REPORT)