

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: P331269

Luminaire Tested: **S122DIP-S290D925U835-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331269  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIP-S290D925U835-4F0-1E-UDD-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 925 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4920.1 lumens  
Efficiency: N/A  
Efficacy: 131.9 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

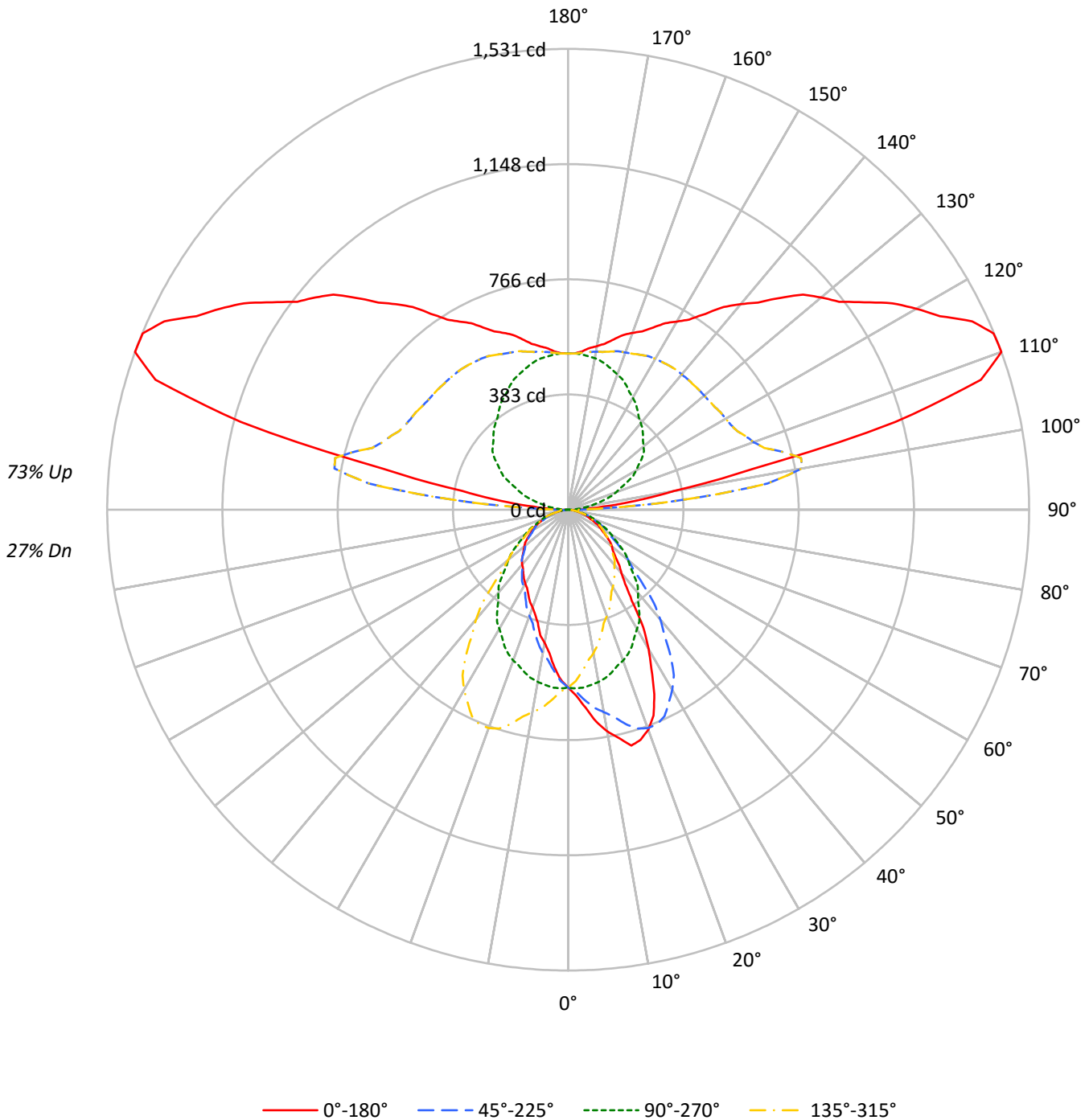
Input Watts (W): 37.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	102	102	102	102	91	91	91	91	70	70	70	52	52	52	35	35	35	27
1	93	89	85	82	83	79	76	74	62	60	58	46	45	43	31	30	30	23
2	85	78	72	67	75	70	65	61	54	51	48	40	38	37	27	26	25	20
3	77	68	62	56	69	61	56	51	48	44	41	36	33	31	25	23	22	17
4	71	61	53	47	63	54	48	43	43	38	35	32	29	27	22	20	19	15
5	65	54	46	41	58	49	42	37	38	34	30	29	26	23	20	18	17	13
6	60	48	41	35	53	44	37	32	35	30	26	26	23	20	18	16	15	11
7	55	44	36	31	49	39	33	28	31	27	23	24	21	18	17	15	13	10
8	51	39	32	27	46	36	29	25	28	24	20	22	19	16	15	13	12	9
9	48	36	29	24	42	33	26	22	26	21	18	20	17	14	14	12	11	8
10	44	33	26	21	40	30	24	20	24	19	16	18	15	13	13	11	10	8

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

	0°	90°	180°	270°
0°	9544	9544	9544	9544
5°	10699	9606	8512	9606
10°	12260	9527	7366	9527
15°	13563	9352	6509	9352
20°	13357	9165	5933	9165
25°	12043	8915	5569	8915
30°	9952	8516	5302	8516
35°	7253	8099	5113	8099
40°	5794	7609	5008	7609
45°	5062	7040	4866	7040
50°	4760	6488	4770	6488
55°	4386	5928	4642	5928
60°	4020	5331	4447	5331
65°	3664	4798	4252	4798
70°	3323	4277	3970	4277
75°	2951	3699	3512	3699
80°	2538	3059	2827	3059
85°	2279	2279	1686	2279



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.3	1.1
10°-20°	163.7	3.3
20°-30°	237.5	4.8
30°-40°	250.6	5.1
40°-50°	221.9	4.5
50°-60°	177.1	3.6
60°-70°	120.4	2.4
70°-80°	61.7	1.3
80°-90°	19.5	0.4
90°-100°	207.5	4.2
100°-110°	704.2	14.3
110°-120°	748.1	15.2
120°-130°	615.8	12.5
130°-140°	494.5	10.1
140°-150°	373.7	7.6
150°-160°	262.6	5.3
160°-170°	154.6	3.1
170°-180°	50.3	1.0
0°-30°	457.5	9.3
0°-40°	708.1	14.4
0°-60°	1107.1	22.5
0°-90°	1308.7	26.6
90°-120°	1659.8	33.7
90°-150°	3143.8	63.9
90°-180°	3611.0	73.4
0°-180°	4920.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	591	591	591	591	591	
5°	660	593	525	593	660	66
15°	811	560	389	560	811	224
25°	676	500	313	500	676	306
35°	368	411	259	411	368	239
45°	222	308	213	308	222	174
55°	156	211	165	211	156	140
65°	96	126	111	126	96	95
75°	47	59	56	59	47	51
85°	12	12	9	12	12	14
90°	33	1	33	1	33	18
95°	114	35	114	35	114	148
105°	1125	122	1125	122	1125	1088
115°	1480	215	1480	215	1480	1449
125°	1201	299	1201	299	1201	1085
135°	995	351	995	351	995	773
145°	794	401	794	401	794	505
155°	668	456	668	456	668	312
165°	586	497	586	497	586	168
175°	528	518	528	518	528	51
180°	519	519	519	519	519	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	618.3	618.5	618.9	616.0	615.6	615.6	613.1	610.9	608.3	604.9	605.3
5°	660.1	662.6	663.5	660.8	656.7	656.3	652.4	646.1	640.1	635.4	632.0
7.5°	710.0	711.0	708.8	705.2	702.2	696.7	689.5	682.5	672.6	663.6	656.9
10°	747.8	749.2	745.3	740.1	735.8	729.4	719.0	708.3	695.4	682.9	672.9
12.5°	776.5	779.9	774.9	774.3	766.9	758.1	745.7	740.3	722.1	704.7	693.9
15°	811.4	811.2	811.7	807.3	801.9	800.5	787.4	773.0	747.4	737.1	719.4
17.5°	801.3	804.8	806.4	806.3	806.2	805.3	801.1	792.1	779.2	762.6	742.2
20°	777.4	781.9	782.6	787.8	790.8	794.6	796.2	793.7	785.8	771.9	754.2
22.5°	740.3	741.6	743.7	751.8	758.2	767.9	772.9	781.4	778.3	771.5	756.7
25°	676.0	673.8	681.7	685.8	700.6	716.0	727.2	739.4	750.3	756.9	752.6
27.5°	598.9	595.5	607.4	618.3	630.2	647.0	664.3	684.8	701.8	723.2	730.5
30°	533.8	535.9	547.2	558.8	577.0	600.6	620.2	642.6	667.0	690.8	707.4
32.5°	463.7	471.5	478.7	496.5	512.5	538.8	567.5	595.6	625.9	653.0	678.7
35°	368.0	377.1	387.1	400.0	422.5	448.6	476.6	514.5	555.9	592.9	623.3
37.5°	309.8	308.3	314.0	323.4	341.6	362.7	394.9	432.3	481.0	524.5	567.5
40°	274.9	274.0	278.0	286.7	300.5	316.0	344.2	377.1	422.3	475.5	526.6
42.5°	250.9	251.4	253.7	259.8	269.3	282.0	303.1	331.1	372.5	422.6	477.5
45°	221.7	223.3	225.8	228.8	234.2	244.7	256.5	276.5	309.2	351.0	405.0
47.5°	200.7	200.8	203.3	205.9	209.1	215.0	224.7	237.2	260.3	294.3	340.8
50°	189.5	187.9	189.7	191.7	195.1	199.2	205.6	217.4	232.8	260.3	299.2
52.5°	175.6	175.7	177.3	178.1	181.1	185.2	191.0	199.2	213.2	234.7	266.6
55°	155.8	157.0	157.9	159.2	162.0	164.9	169.5	174.9	185.8	201.9	225.6
57.5°	137.2	137.6	138.5	141.1	142.8	145.5	149.8	154.8	161.9	173.8	191.6
60°	124.5	124.5	126.3	127.4	129.7	132.4	135.8	140.6	147.0	156.7	171.1
62.5°	112.9	112.7	113.4	115.3	117.0	119.5	122.9	127.0	133.0	141.7	153.4
65°	95.9	95.4	96.8	97.2	99.0	101.5	104.3	108.6	113.4	119.7	130.2
67.5°	79.5	80.1	80.8	81.6	82.6	85.3	87.1	90.1	94.2	99.5	106.5
70°	70.4	70.4	70.4	71.1	72.5	73.8	75.6	78.1	82.0	86.5	92.9
72.5°	60.2	61.0	61.7	61.3	63.0	63.8	66.0	67.4	71.1	74.0	79.6
75°	47.3	47.3	47.3	48.4	49.1	49.7	51.1	52.5	54.3	57.9	60.9
77.5°	35.3	35.2	35.4	35.7	36.4	37.2	37.6	38.8	40.5	42.2	44.7
80°	27.3	27.7	27.9	28.4	28.4	28.8	29.1	30.7	31.8	32.9	34.5
82.5°	21.1	21.2	21.2	21.3	21.5	21.8	22.4	22.9	23.3	24.2	25.4
85°	12.3	12.0	12.0	12.5	12.3	12.3	12.7	13.2	13.2	13.4	14.1
87.5°	11.3	11.3	11.5	11.3	11.3	11.3	10.9	11.1	11.5	11.9	11.9
90°	32.9	32.9	32.9	32.9	32.9	31.9	29.9	31.9	32.9	33.9	32.9
92.5°	55.3	56.9	56.1	59.3	60.1	66.3	74.7	87.0	109.6	129.7	127.9
95°	113.8	112.8	115.8	123.8	136.7	158.7	200.6	261.5	342.3	391.2	346.3
97.5°	224.0	232.3	246.9	271.5	319.2	391.2	499.2	610.2	700.6	667.9	503.0
100°	357.3	375.3	404.2	447.1	530.0	650.7	787.4	911.2	932.2	788.4	542.9
102.5°	628.8	653.1	689.2	762.5	852.5	980.5	1080.5	1108.4	1018.4	792.4	527.8
105°	1124.8	1138.7	1181.7	1243.5	1305.4	1338.4	1325.4	1212.6	1005.0	739.5	498.0
107.5°	1436.8	1455.3	1463.9	1467.3	1459.5	1411.2	1307.4	1137.6	917.4	682.9	483.2
110°	1531.0	1532.0	1523.0	1504.0	1461.1	1379.3	1251.5	1072.9	862.3	655.7	480.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1529.4	1524.0	1507.0	1475.3	1415.6	1321.8	1185.3	1013.8	824.0	638.1	480.8
115°	1480.1	1471.1	1445.1	1399.2	1328.4	1225.6	1094.8	941.1	776.5	618.8	485.0
117.5°	1392.0	1384.5	1357.1	1308.6	1236.4	1139.9	1021.4	886.4	746.5	609.4	492.2
120°	1335.4	1325.4	1296.4	1249.5	1179.7	1088.8	983.1	859.3	730.6	603.8	497.0
122.5°	1276.3	1267.9	1242.1	1196.0	1133.4	1051.3	951.1	837.7	717.0	600.6	502.6
125°	1200.6	1192.6	1167.7	1129.8	1071.9	997.0	909.2	806.4	697.6	594.8	511.0
127.5°	1134.4	1128.0	1106.4	1070.9	1020.4	951.3	868.5	775.5	679.7	591.4	519.6
130°	1096.8	1088.8	1068.9	1035.0	986.1	920.2	841.3	755.5	667.7	589.8	526.0
132.5°	1057.7	1050.5	1032.2	998.2	950.1	888.2	815.8	736.3	658.1	589.0	532.3
135°	995.0	991.0	973.1	940.1	897.2	841.3	775.5	709.6	644.7	587.8	539.9
137.5°	933.6	927.6	911.8	883.5	844.3	795.6	743.3	688.2	635.3	587.6	546.7
140°	891.2	885.3	870.3	844.3	812.4	768.5	722.6	674.7	629.8	586.8	549.9
142.5°	848.9	847.7	834.4	810.8	780.5	743.7	704.2	663.5	624.2	586.8	552.3
145°	794.4	791.4	781.5	764.5	740.5	711.6	680.7	647.7	616.8	584.8	554.9
147.5°	748.7	746.9	740.1	726.6	706.8	685.6	661.5	635.5	609.2	581.3	555.7
150°	721.6	720.6	714.6	702.6	687.6	669.7	648.7	626.8	602.8	578.9	554.9
152.5°	698.4	698.2	693.8	683.4	671.7	656.1	638.3	618.0	597.2	574.9	553.3
155°	667.7	669.7	665.7	658.7	647.7	636.7	621.8	605.8	586.8	567.9	550.9
157.5°	641.5	641.5	639.7	633.9	626.2	617.6	605.0	591.6	577.1	560.7	546.3
160°	624.8	624.8	623.8	618.8	611.8	604.8	593.8	582.8	569.9	555.9	543.9
162.5°	608.8	609.6	608.6	605.2	598.2	592.8	583.4	574.1	563.5	551.9	541.5
165°	585.8	586.8	586.8	582.8	578.9	574.9	567.9	560.9	552.9	543.9	536.9
167.5°	564.7	565.9	566.1	563.9	562.1	558.5	553.7	548.3	542.5	536.9	532.3
170°	551.9	553.9	554.9	551.9	550.9	548.9	544.9	541.9	536.9	532.9	530.0
172.5°	541.5	542.7	543.7	542.3	541.3	540.1	536.9	534.7	531.4	528.2	526.8
175°	528.0	530.0	531.0	530.0	530.0	529.0	528.0	527.0	524.0	523.0	522.0
177.5°	519.8	521.4	522.2	522.2	522.2	522.2	521.4	521.4	519.8	519.0	519.8
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	606.5	605.1	604.2	600.9	598.0	595.1	594.2	594.5	590.5	586.7	585.1
5°	630.2	625.6	621.3	615.2	607.9	599.9	595.9	592.7	584.7	576.1	571.1
7.5°	651.3	644.8	636.5	625.0	614.4	601.9	593.9	586.9	575.3	563.1	555.6
10°	664.2	655.4	644.7	630.6	617.7	602.4	591.8	581.1	567.5	552.9	543.8
12.5°	675.3	663.4	652.9	634.8	619.5	600.4	587.8	572.7	558.4	541.1	532.2
15°	701.7	679.7	659.7	639.2	620.4	593.8	579.7	559.5	540.7	519.3	509.1
17.5°	722.1	697.3	665.9	639.9	617.9	588.4	567.8	543.6	521.3	496.9	483.0
20°	733.7	705.3	671.5	640.6	614.3	580.6	558.1	533.4	507.3	479.8	464.8
22.5°	740.6	710.8	677.3	637.9	607.0	574.3	546.0	518.8	492.4	462.7	447.0
25°	742.8	715.6	680.1	635.6	597.9	560.9	526.8	500.4	468.4	440.7	417.8
27.5°	732.0	712.5	678.4	631.3	587.4	544.1	506.1	476.3	442.5	412.4	389.3
30°	718.7	707.4	674.2	627.0	579.0	532.5	490.7	456.8	423.2	392.8	369.1
32.5°	698.2	695.8	666.6	620.8	570.1	517.8	474.5	440.3	403.0	373.1	350.6
35°	657.9	668.8	650.4	607.0	553.4	496.8	450.0	410.9	372.3	343.7	322.6
37.5°	603.8	630.9	626.1	586.8	530.7	474.0	422.3	381.5	344.7	315.8	295.1
40°	566.5	601.1	606.1	571.3	514.8	456.4	401.6	361.0	325.1	298.7	277.8
42.5°	526.6	566.9	580.6	552.8	497.3	437.8	383.1	341.0	305.4	279.8	261.3
45°	459.6	512.9	537.7	521.8	468.2	407.3	351.0	308.3	276.0	251.9	237.6
47.5°	396.9	455.2	488.5	482.9	435.8	375.5	319.8	278.8	247.4	228.2	215.4
50°	352.6	412.5	452.7	454.6	412.5	352.8	296.9	258.3	229.4	211.5	201.0
52.5°	314.0	371.3	415.1	424.8	386.5	329.2	276.4	237.9	212.5	196.0	186.7
55°	263.7	312.1	360.7	378.5	347.8	293.3	244.4	210.6	186.7	175.4	167.2
57.5°	219.3	259.6	304.5	324.1	305.2	258.5	212.7	183.3	164.0	154.0	147.7
60°	195.8	227.6	267.6	291.0	274.6	233.1	193.1	165.1	149.2	140.4	134.5
62.5°	174.0	202.2	236.0	257.4	248.5	209.3	173.5	148.8	135.1	126.8	122.5
65°	143.6	165.8	192.0	211.7	205.8	176.1	146.7	125.6	114.7	108.1	104.7
67.5°	118.2	134.3	152.4	169.7	165.0	143.9	120.4	103.9	95.8	90.1	88.0
70°	102.2	114.5	130.6	144.5	140.6	123.4	104.7	90.6	83.6	78.8	76.8
72.5°	87.0	97.0	109.4	120.7	118.1	103.7	88.2	77.6	72.1	67.7	66.1
75°	65.7	73.4	80.9	88.4	87.7	76.6	67.5	59.3	55.0	51.6	50.9
77.5°	48.5	52.8	57.9	62.3	61.1	54.7	47.6	42.9	39.8	37.5	37.1
80°	37.0	39.5	43.2	46.3	44.8	42.0	36.3	32.9	30.7	28.4	27.5
82.5°	26.9	29.3	31.5	33.3	32.0	29.5	26.0	23.7	22.3	20.8	20.4
85°	14.1	15.4	16.4	16.8	16.4	14.8	13.2	12.3	11.1	10.4	10.2
87.5°	10.8	9.4	8.4	8.2	7.3	6.9	5.3	4.2	4.6	5.2	5.3
90°	26.9	20.0	15.0	12.0	10.0	8.0	4.0	1.0	4.0	8.0	10.0
92.5°	99.6	67.9	45.3	35.9	29.1	24.8	17.6	12.2	17.6	24.8	29.1
95°	230.5	143.7	97.8	73.9	57.9	48.9	38.9	34.9	38.9	48.9	57.9
97.5°	310.6	189.6	131.9	104.8	86.4	72.9	62.3	56.9	62.3	72.9	86.4
100°	327.4	205.6	152.7	124.8	104.8	88.8	79.8	76.8	79.8	88.8	104.8
102.5°	328.2	220.0	171.1	143.1	122.4	106.4	97.4	95.2	97.4	106.4	122.4
105°	333.3	244.5	197.6	169.7	147.7	132.7	125.8	121.8	125.8	132.7	147.7
107.5°	347.1	269.7	224.2	196.0	174.3	160.5	153.7	150.5	153.7	160.5	174.3
110°	358.3	286.4	242.5	213.6	192.6	179.6	173.7	169.7	173.7	179.6	192.6





TEST NUMBER: P331269

CATALOG NUMBER: S122DIP-S290D925U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	370.3	302.4	260.1	230.3	210.2	198.0	191.2	187.2	191.2	198.0	210.2
115°	388.2	327.4	284.4	257.5	237.5	225.6	219.6	214.6	219.6	225.6	237.5
117.5°	407.4	350.3	310.6	282.6	263.5	252.9	246.9	242.9	246.9	252.9	263.5
120°	420.2	366.3	327.4	299.4	279.4	270.5	264.5	260.5	264.5	270.5	279.4
122.5°	431.3	381.4	344.9	316.2	296.2	286.4	280.4	277.3	280.4	286.4	296.2
125°	449.1	404.2	368.3	340.3	320.4	308.4	302.4	299.4	302.4	308.4	320.4
127.5°	465.7	425.4	390.4	361.7	342.5	329.3	321.0	317.0	321.0	329.3	342.5
130°	476.1	438.1	403.2	375.3	355.3	341.3	331.3	327.4	331.3	341.3	355.3
132.5°	486.4	449.3	416.0	388.0	367.3	352.5	341.7	336.9	341.7	352.5	367.3
135°	500.0	465.1	433.1	405.2	382.2	367.3	355.3	351.3	355.3	367.3	382.2
137.5°	510.4	477.9	446.3	420.4	397.6	381.6	369.7	364.9	369.7	381.6	397.6
140°	516.0	485.0	455.1	429.2	407.2	391.2	379.3	375.3	379.3	391.2	407.2
142.5°	520.8	490.6	461.5	437.1	416.0	400.0	388.8	385.6	388.8	400.0	416.0
145°	527.0	499.0	472.1	450.1	430.2	415.2	405.2	401.2	405.2	415.2	430.2
147.5°	530.4	505.8	480.5	460.9	444.3	430.5	421.0	418.0	421.0	430.5	444.3
150°	531.9	509.0	486.0	468.1	453.1	440.1	432.1	429.2	432.1	440.1	453.1
152.5°	532.7	512.2	491.6	475.3	461.1	449.7	441.7	440.3	441.7	449.7	461.1
155°	533.9	517.0	500.0	485.0	474.1	463.1	457.1	456.1	457.1	463.1	474.1
157.5°	533.9	520.4	506.0	493.4	484.6	475.1	470.3	469.3	470.3	475.1	484.6
160°	533.9	522.0	510.0	499.0	491.0	483.0	479.1	478.1	479.1	483.0	491.0
162.5°	533.1	522.8	512.4	503.8	496.6	490.2	486.2	486.8	486.2	490.2	496.6
165°	531.0	524.0	515.0	509.0	504.0	498.0	496.0	497.0	496.0	498.0	504.0
167.5°	529.6	523.8	517.2	513.4	509.8	506.0	504.2	505.4	504.2	506.0	509.8
170°	528.0	523.0	518.0	515.0	513.0	510.0	509.0	511.0	509.0	510.0	513.0
172.5°	525.6	522.2	518.8	516.6	515.4	512.4	513.0	514.2	513.0	512.4	515.4
175°	523.0	521.0	519.0	518.0	518.0	516.0	517.0	518.0	517.0	516.0	518.0
177.5°	521.4	519.8	519.0	519.0	519.0	517.4	518.2	519.8	518.2	517.4	519.0
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0



TEST NUMBER: P331269

CATALOG NUMBER: S122DIP-S290D925U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	583.3	582.2	578.4	576.4	573.1	570.0	568.0	568.9	569.6	569.3	568.7
5°	566.5	562.2	555.6	550.0	545.9	538.4	535.2	533.6	532.2	530.7	529.1
7.5°	546.6	539.8	530.4	522.3	514.7	505.3	500.0	496.9	493.6	490.0	486.8
10°	532.5	522.9	512.9	501.6	492.5	484.1	476.6	471.6	467.0	462.7	459.6
12.5°	517.6	506.6	494.2	478.7	468.7	456.6	455.5	446.7	439.6	436.9	433.2
15°	493.9	478.4	462.7	444.3	436.4	425.5	418.7	411.8	405.7	401.4	400.3
17.5°	466.9	446.9	431.3	418.1	405.1	393.9	387.6	382.2	377.1	371.4	370.6
20°	446.4	429.1	412.1	400.5	387.1	375.7	368.0	362.6	358.2	354.8	351.9
22.5°	426.9	408.0	392.4	379.8	366.6	357.4	351.3	346.0	342.4	338.7	335.9
25°	395.7	381.0	363.9	349.6	338.7	332.8	327.8	323.3	321.0	318.5	315.3
27.5°	368.4	352.0	336.1	325.0	315.4	310.2	306.6	303.5	301.4	299.9	298.1
30°	349.2	332.6	320.1	309.2	301.2	296.0	293.7	291.9	289.4	288.5	287.6
32.5°	330.6	315.7	305.0	295.5	288.0	284.5	282.5	280.8	278.9	278.0	276.1
35°	304.4	291.9	281.5	276.2	270.1	267.1	265.6	263.3	261.5	260.6	260.3
37.5°	279.7	268.9	262.0	255.3	252.7	250.9	248.7	247.2	246.6	246.5	246.2
40°	263.7	254.9	248.7	243.3	242.2	239.4	237.6	236.3	236.3	236.5	236.3
42.5°	249.2	241.2	235.8	231.1	229.8	228.2	226.3	226.3	226.6	227.4	226.6
45°	227.2	221.5	217.6	215.4	212.9	211.3	211.0	211.7	211.9	212.2	212.9
47.5°	206.9	203.1	199.6	197.1	196.0	195.8	195.5	196.7	197.8	198.2	199.2
50°	194.9	190.6	187.6	186.0	185.1	184.7	185.1	186.5	187.4	188.5	189.2
52.5°	181.5	178.4	176.4	175.1	174.8	175.1	175.1	176.7	178.1	178.6	178.9
55°	162.9	160.6	160.2	158.1	159.0	158.8	159.9	160.8	162.2	163.6	163.8
57.5°	144.3	142.5	141.3	141.5	141.8	142.8	143.7	145.3	146.7	148.2	148.3
60°	132.0	131.1	130.4	130.4	130.8	132.2	133.3	134.9	135.8	136.8	137.4
62.5°	120.7	119.8	119.1	119.5	120.7	121.5	122.8	123.7	124.6	125.5	125.8
65°	102.9	102.5	103.1	103.6	103.8	104.9	106.5	107.2	108.1	108.6	110.2
67.5°	86.5	86.6	86.5	87.1	88.5	88.7	90.2	91.8	92.0	92.9	93.9
70°	75.4	75.9	76.3	76.8	77.9	78.4	79.5	80.2	81.1	81.8	82.5
72.5°	65.2	65.3	65.8	65.7	66.7	67.6	68.6	69.3	70.2	71.1	71.7
75°	50.2	50.2	50.7	50.9	52.0	53.2	52.9	53.4	54.3	55.2	55.7
77.5°	36.7	36.2	36.7	36.9	37.3	38.2	38.4	39.0	40.1	39.8	40.3
80°	27.9	27.3	27.9	28.2	28.2	29.3	29.3	29.8	30.4	29.8	30.4
82.5°	19.9	19.6	20.1	20.2	20.5	20.6	20.9	21.0	21.7	21.4	21.7
85°	10.0	9.8	10.0	9.8	10.0	10.2	10.2	10.0	10.0	10.4	9.8
87.5°	5.5	5.9	6.7	8.1	9.1	9.1	8.8	8.6	8.2	8.2	8.4
90°	12.0	15.0	20.0	26.9	32.9	33.9	32.9	31.9	29.9	31.9	32.9
92.5°	35.9	45.3	67.9	99.6	127.9	129.7	109.6	87.0	74.7	66.3	60.1
95°	73.9	97.8	143.7	230.5	346.3	391.2	342.3	261.5	200.6	158.7	136.7
97.5°	104.8	131.9	189.6	310.6	503.0	667.9	700.6	610.2	499.2	391.2	319.2
100°	124.8	152.7	205.6	327.4	542.9	788.4	932.2	911.2	787.4	650.7	530.0
102.5°	143.1	171.1	220.0	328.2	527.8	792.4	1018.4	1108.4	1080.5	980.5	852.5
105°	169.7	197.6	244.5	333.3	498.0	739.5	1005.0	1212.6	1325.4	1338.4	1305.4
107.5°	196.0	224.2	269.7	347.1	483.2	682.9	917.4	1137.6	1307.4	1411.2	1459.5
110°	213.6	242.5	286.4	358.3	480.1	655.7	862.3	1072.9	1251.5	1379.3	1461.1



TEST NUMBER: P331269

CATALOG NUMBER: S122DIP-S290D925U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	230.3	260.1	302.4	370.3	480.8	638.1	824.0	1013.8	1185.3	1321.8	1415.6
115°	257.5	284.4	327.4	388.2	485.0	618.8	776.5	941.1	1094.8	1225.6	1328.4
117.5°	282.6	310.6	350.3	407.4	492.2	609.4	746.5	886.4	1021.4	1139.9	1236.4
120°	299.4	327.4	366.3	420.2	497.0	603.8	730.6	859.3	983.1	1088.8	1179.7
122.5°	316.2	344.9	381.4	431.3	502.6	600.6	717.0	837.7	951.1	1051.3	1133.4
125°	340.3	368.3	404.2	449.1	511.0	594.8	697.6	806.4	909.2	997.0	1071.9
127.5°	361.7	390.4	425.4	465.7	519.6	591.4	679.7	775.5	868.5	951.3	1020.4
130°	375.3	403.2	438.1	476.1	526.0	589.8	667.7	755.5	841.3	920.2	986.1
132.5°	388.0	416.0	449.3	486.4	532.3	589.0	658.1	736.3	815.8	888.2	950.1
135°	405.2	433.1	465.1	500.0	539.9	587.8	644.7	709.6	775.5	841.3	897.2
137.5°	420.4	446.3	477.9	510.4	546.7	587.6	635.3	688.2	743.3	795.6	844.3
140°	429.2	455.1	485.0	516.0	549.9	586.8	629.8	674.7	722.6	768.5	812.4
142.5°	437.1	461.5	490.6	520.8	552.3	586.8	624.2	663.5	704.2	743.7	780.5
145°	450.1	472.1	499.0	527.0	554.9	584.8	616.8	647.7	680.7	711.6	740.5
147.5°	460.9	480.5	505.8	530.4	555.7	581.3	609.2	635.5	661.5	685.6	706.8
150°	468.1	486.0	509.0	531.9	554.9	578.9	602.8	626.8	648.7	669.7	687.6
152.5°	475.3	491.6	512.2	532.7	553.3	574.9	597.2	618.0	638.3	656.1	671.7
155°	485.0	500.0	517.0	533.9	550.9	567.9	586.8	605.8	621.8	636.7	647.7
157.5°	493.4	506.0	520.4	533.9	546.3	560.7	577.1	591.6	605.0	617.6	626.2
160°	499.0	510.0	522.0	533.9	543.9	555.9	569.9	582.8	593.8	604.8	611.8
162.5°	503.8	512.4	522.8	533.1	541.5	551.9	563.5	574.1	583.4	592.8	598.2
165°	509.0	515.0	524.0	531.0	536.9	543.9	552.9	560.9	567.9	574.9	578.9
167.5°	513.4	517.2	523.8	529.6	532.3	536.9	542.5	548.3	553.7	558.5	562.1
170°	515.0	518.0	523.0	528.0	530.0	532.9	536.9	541.9	544.9	548.9	550.9
172.5°	516.6	518.8	522.2	525.6	526.8	528.2	531.4	534.7	536.9	540.1	541.3
175°	518.0	519.0	521.0	523.0	522.0	523.0	524.0	527.0	528.0	529.0	530.0
177.5°	519.0	519.0	519.8	521.4	519.8	519.0	519.8	521.4	521.4	522.2	522.2
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0



TEST NUMBER: P331269

CATALOG NUMBER: S122DIP-S290D925U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	566.9	566.5	566.5	564.9	566.5	566.5	566.9	568.7	569.3	569.6	568.9
5°	525.9	525.2	524.1	525.2	524.1	525.2	525.9	529.1	530.7	532.2	533.6
7.5°	485.3	482.6	482.2	479.5	482.2	482.6	485.3	486.8	490.0	493.6	496.9
10°	455.7	453.9	453.6	449.3	453.6	453.9	455.7	459.6	462.7	467.0	471.6
12.5°	433.2	428.8	429.7	427.2	429.7	428.8	433.2	433.2	436.9	439.6	446.7
15°	394.1	394.1	393.2	389.4	393.2	394.1	394.1	400.3	401.4	405.7	411.8
17.5°	366.1	365.6	363.5	364.6	363.5	365.6	366.1	370.6	371.4	377.1	382.2
20°	349.4	348.0	345.3	345.3	345.3	348.0	349.4	351.9	354.8	358.2	362.6
22.5°	333.6	333.5	330.6	331.5	330.6	333.5	333.6	335.9	338.7	342.4	346.0
25°	315.1	313.3	311.9	312.6	311.9	313.3	315.1	315.3	318.5	321.0	323.3
27.5°	297.5	296.5	296.4	294.6	296.4	296.5	297.5	298.1	299.9	301.4	303.5
30°	287.4	285.1	285.5	284.4	285.5	285.1	287.4	287.6	288.5	289.4	291.9
32.5°	275.7	274.9	274.5	273.5	274.5	274.9	275.7	276.1	278.0	278.9	280.8
35°	259.9	260.1	259.0	259.4	259.0	260.1	259.9	260.3	260.6	261.5	263.3
37.5°	246.0	246.7	246.2	246.3	246.2	246.7	246.0	246.2	246.5	246.6	247.2
40°	236.9	236.9	236.9	237.6	236.9	236.9	236.9	236.3	236.5	236.3	236.3
42.5°	228.2	227.8	227.5	227.4	227.5	227.8	228.2	226.6	227.4	226.6	226.3
45°	213.3	214.0	214.2	213.1	214.2	214.0	213.3	212.9	212.2	211.9	211.7
47.5°	199.8	199.9	199.8	200.8	199.8	199.9	199.8	199.2	198.2	197.8	196.7
50°	190.4	189.9	190.4	189.9	190.4	189.9	190.4	189.2	188.5	187.4	186.5
52.5°	180.4	180.5	180.2	180.1	180.2	180.5	180.4	178.9	178.6	178.1	176.7
55°	164.7	165.1	164.9	164.9	164.9	165.1	164.7	163.8	163.6	162.2	160.8
57.5°	148.5	148.9	149.2	148.2	149.2	148.9	148.5	148.3	148.2	146.7	145.3
60°	137.2	138.3	138.1	137.7	138.1	138.3	137.2	137.4	136.8	135.8	134.9
62.5°	126.8	127.3	127.2	127.1	127.2	127.3	126.8	125.8	125.5	124.6	123.7
65°	110.9	111.3	110.6	111.3	110.6	111.3	110.9	110.2	108.6	108.1	107.2
67.5°	93.6	93.8	94.3	94.6	94.3	93.8	93.6	93.9	92.9	92.0	91.8
70°	82.9	82.7	83.4	84.1	83.4	82.7	82.9	82.5	81.8	81.1	80.2
72.5°	71.6	72.1	71.9	72.4	71.9	72.1	71.6	71.7	71.1	70.2	69.3
75°	55.2	55.9	55.7	56.3	55.7	55.9	55.2	55.7	55.2	54.3	53.4
77.5°	39.9	40.0	39.9	40.3	39.9	40.0	39.9	40.3	39.8	40.1	39.0
80°	30.4	30.0	29.5	30.4	29.5	30.0	30.4	30.4	29.8	30.4	29.8
82.5°	21.2	21.4	21.0	21.0	21.0	21.4	21.2	21.7	21.4	21.7	21.0
85°	9.8	9.5	9.1	9.1	9.1	9.5	9.8	9.8	10.4	10.0	10.0
87.5°	8.4	8.2	8.2	8.0	8.2	8.2	8.4	8.4	8.2	8.2	8.6
90°	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	31.9	29.9	31.9
92.5°	59.3	56.1	56.9	55.3	56.9	56.1	59.3	60.1	66.3	74.7	87.0
95°	123.8	115.8	112.8	113.8	112.8	115.8	123.8	136.7	158.7	200.6	261.5
97.5°	271.5	246.9	232.3	224.0	232.3	246.9	271.5	319.2	391.2	499.2	610.2
100°	447.1	404.2	375.3	357.3	375.3	404.2	447.1	530.0	650.7	787.4	911.2
102.5°	762.5	689.2	653.1	628.8	653.1	689.2	762.5	852.5	980.5	1080.5	1108.4
105°	1243.5	1181.7	1138.7	1124.8	1138.7	1181.7	1243.5	1305.4	1338.4	1325.4	1212.6
107.5°	1467.3	1463.9	1455.3	1436.8	1455.3	1463.9	1467.3	1459.5	1411.2	1307.4	1137.6
110°	1504.0	1523.0	1532.0	1531.0	1532.0	1523.0	1504.0	1461.1	1379.3	1251.5	1072.9



TEST NUMBER: P331269

CATALOG NUMBER: S122DIP-S290D925U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1475.3	1507.0	1524.0	1529.4	1524.0	1507.0	1475.3	1415.6	1321.8	1185.3	1013.8
115°	1399.2	1445.1	1471.1	1480.1	1471.1	1445.1	1399.2	1328.4	1225.6	1094.8	941.1
117.5°	1308.6	1357.1	1384.5	1392.0	1384.5	1357.1	1308.6	1236.4	1139.9	1021.4	886.4
120°	1249.5	1296.4	1325.4	1335.4	1325.4	1296.4	1249.5	1179.7	1088.8	983.1	859.3
122.5°	1196.0	1242.1	1267.9	1276.3	1267.9	1242.1	1196.0	1133.4	1051.3	951.1	837.7
125°	1129.8	1167.7	1192.6	1200.6	1192.6	1167.7	1129.8	1071.9	997.0	909.2	806.4
127.5°	1070.9	1106.4	1128.0	1134.4	1128.0	1106.4	1070.9	1020.4	951.3	868.5	775.5
130°	1035.0	1068.9	1088.8	1096.8	1088.8	1068.9	1035.0	986.1	920.2	841.3	755.5
132.5°	998.2	1032.2	1050.5	1057.7	1050.5	1032.2	998.2	950.1	888.2	815.8	736.3
135°	940.1	973.1	991.0	995.0	991.0	973.1	940.1	897.2	841.3	775.5	709.6
137.5°	883.5	911.8	927.6	933.6	927.6	911.8	883.5	844.3	795.6	743.3	688.2
140°	844.3	870.3	885.3	891.2	885.3	870.3	844.3	812.4	768.5	722.6	674.7
142.5°	810.8	834.4	847.7	848.9	847.7	834.4	810.8	780.5	743.7	704.2	663.5
145°	764.5	781.5	791.4	794.4	791.4	781.5	764.5	740.5	711.6	680.7	647.7
147.5°	726.6	740.1	746.9	748.7	746.9	740.1	726.6	706.8	685.6	661.5	635.5
150°	702.6	714.6	720.6	721.6	720.6	714.6	702.6	687.6	669.7	648.7	626.8
152.5°	683.4	693.8	698.2	698.4	698.2	693.8	683.4	671.7	656.1	638.3	618.0
155°	658.7	665.7	669.7	667.7	669.7	665.7	658.7	647.7	636.7	621.8	605.8
157.5°	633.9	639.7	641.5	641.5	641.5	639.7	633.9	626.2	617.6	605.0	591.6
160°	618.8	623.8	624.8	624.8	624.8	623.8	618.8	611.8	604.8	593.8	582.8
162.5°	605.2	608.6	609.6	608.8	609.6	608.6	605.2	598.2	592.8	583.4	574.1
165°	582.8	586.8	586.8	585.8	586.8	586.8	582.8	578.9	574.9	567.9	560.9
167.5°	563.9	566.1	565.9	564.7	565.9	566.1	563.9	562.1	558.5	553.7	548.3
170°	551.9	554.9	553.9	551.9	553.9	554.9	551.9	550.9	548.9	544.9	541.9
172.5°	542.3	543.7	542.7	541.5	542.7	543.7	542.3	541.3	540.1	536.9	534.7
175°	530.0	531.0	530.0	528.0	530.0	531.0	530.0	530.0	529.0	528.0	527.0
177.5°	522.2	522.2	521.4	519.8	521.4	522.2	522.2	522.2	522.2	521.4	521.4
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0



TEST NUMBER: P331269

CATALOG NUMBER: S122DIP-S290D925U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	568.0	570.0	573.1	576.4	578.4	582.2	583.3	585.1	586.7	590.5	594.5
5°	535.2	538.4	545.9	550.0	555.6	562.2	566.5	571.1	576.1	584.7	592.7
7.5°	500.0	505.3	514.7	522.3	530.4	539.8	546.6	555.6	563.1	575.3	586.9
10°	476.6	484.1	492.5	501.6	512.9	522.9	532.5	543.8	552.9	567.5	581.1
12.5°	455.5	456.6	468.7	478.7	494.2	506.6	517.6	532.2	541.1	558.4	572.7
15°	418.7	425.5	436.4	444.3	462.7	478.4	493.9	509.1	519.3	540.7	559.5
17.5°	387.6	393.9	405.1	418.1	431.3	446.9	466.9	483.0	496.9	521.3	543.6
20°	368.0	375.7	387.1	400.5	412.1	429.1	446.4	464.8	479.8	507.3	533.4
22.5°	351.3	357.4	366.6	379.8	392.4	408.0	426.9	447.0	462.7	492.4	518.8
25°	327.8	332.8	338.7	349.6	363.9	381.0	395.7	417.8	440.7	468.4	500.4
27.5°	306.6	310.2	315.4	325.0	336.1	352.0	368.4	389.3	412.4	442.5	476.3
30°	293.7	296.0	301.2	309.2	320.1	332.6	349.2	369.1	392.8	423.2	456.8
32.5°	282.5	284.5	288.0	295.5	305.0	315.7	330.6	350.6	373.1	403.0	440.3
35°	265.6	267.1	270.1	276.2	281.5	291.9	304.4	322.6	343.7	372.3	410.9
37.5°	248.7	250.9	252.7	255.3	262.0	268.9	279.7	295.1	315.8	344.7	381.5
40°	237.6	239.4	242.2	243.3	248.7	254.9	263.7	277.8	298.7	325.1	361.0
42.5°	226.3	228.2	229.8	231.1	235.8	241.2	249.2	261.3	279.8	305.4	341.0
45°	211.0	211.3	212.9	215.4	217.6	221.5	227.2	237.6	251.9	276.0	308.3
47.5°	195.5	195.8	196.0	197.1	199.6	203.1	206.9	215.4	228.2	247.4	278.8
50°	185.1	184.7	185.1	186.0	187.6	190.6	194.9	201.0	211.5	229.4	258.3
52.5°	175.1	175.1	174.8	175.1	176.4	178.4	181.5	186.7	196.0	212.5	237.9
55°	159.9	158.8	159.0	158.1	160.2	160.6	162.9	167.2	175.4	186.7	210.6
57.5°	143.7	142.8	141.8	141.5	141.3	142.5	144.3	147.7	154.0	164.0	183.3
60°	133.3	132.2	130.8	130.4	130.4	131.1	132.0	134.5	140.4	149.2	165.1
62.5°	122.8	121.5	120.7	119.5	119.1	119.8	120.7	122.5	126.8	135.1	148.8
65°	106.5	104.9	103.8	103.6	103.1	102.5	102.9	104.7	108.1	114.7	125.6
67.5°	90.2	88.7	88.5	87.1	86.5	86.6	86.5	88.0	90.1	95.8	103.9
70°	79.5	78.4	77.9	76.8	76.3	75.9	75.4	76.8	78.8	83.6	90.6
72.5°	68.6	67.6	66.7	65.7	65.8	65.3	65.2	66.1	67.7	72.1	77.6
75°	52.9	53.2	52.0	50.9	50.7	50.2	50.2	50.9	51.6	55.0	59.3
77.5°	38.4	38.2	37.3	36.9	36.7	36.2	36.7	37.1	37.5	39.8	42.9
80°	29.3	29.3	28.2	28.2	27.9	27.3	27.9	27.5	28.4	30.7	32.9
82.5°	20.9	20.6	20.5	20.2	20.1	19.6	19.9	20.4	20.8	22.3	23.7
85°	10.2	10.2	10.0	9.8	10.0	9.8	10.0	10.2	10.4	11.1	12.3
87.5°	8.8	9.1	9.1	8.1	6.7	5.9	5.5	5.3	5.2	4.6	4.2
90°	32.9	33.9	32.9	26.9	20.0	15.0	12.0	10.0	8.0	4.0	1.0
92.5°	109.6	129.7	127.9	99.6	67.9	45.3	35.9	29.1	24.8	17.6	12.2
95°	342.3	391.2	346.3	230.5	143.7	97.8	73.9	57.9	48.9	38.9	34.9
97.5°	700.6	667.9	503.0	310.6	189.6	131.9	104.8	86.4	72.9	62.3	56.9
100°	932.2	788.4	542.9	327.4	205.6	152.7	124.8	104.8	88.8	79.8	76.8
102.5°	1018.4	792.4	527.8	328.2	220.0	171.1	143.1	122.4	106.4	97.4	95.2
105°	1005.0	739.5	498.0	333.3	244.5	197.6	169.7	147.7	132.7	125.8	121.8
107.5°	917.4	682.9	483.2	347.1	269.7	224.2	196.0	174.3	160.5	153.7	150.5
110°	862.3	655.7	480.1	358.3	286.4	242.5	213.6	192.6	179.6	173.7	169.7



TEST NUMBER: P331269

CATALOG NUMBER: S122DIP-S290D925U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	824.0	638.1	480.8	370.3	302.4	260.1	230.3	210.2	198.0	191.2	187.2
115°	776.5	618.8	485.0	388.2	327.4	284.4	257.5	237.5	225.6	219.6	214.6
117.5°	746.5	609.4	492.2	407.4	350.3	310.6	282.6	263.5	252.9	246.9	242.9
120°	730.6	603.8	497.0	420.2	366.3	327.4	299.4	279.4	270.5	264.5	260.5
122.5°	717.0	600.6	502.6	431.3	381.4	344.9	316.2	296.2	286.4	280.4	277.3
125°	697.6	594.8	511.0	449.1	404.2	368.3	340.3	320.4	308.4	302.4	299.4
127.5°	679.7	591.4	519.6	465.7	425.4	390.4	361.7	342.5	329.3	321.0	317.0
130°	667.7	589.8	526.0	476.1	438.1	403.2	375.3	355.3	341.3	331.3	327.4
132.5°	658.1	589.0	532.3	486.4	449.3	416.0	388.0	367.3	352.5	341.7	336.9
135°	644.7	587.8	539.9	500.0	465.1	433.1	405.2	382.2	367.3	355.3	351.3
137.5°	635.3	587.6	546.7	510.4	477.9	446.3	420.4	397.6	381.6	369.7	364.9
140°	629.8	586.8	549.9	516.0	485.0	455.1	429.2	407.2	391.2	379.3	375.3
142.5°	624.2	586.8	552.3	520.8	490.6	461.5	437.1	416.0	400.0	388.8	385.6
145°	616.8	584.8	554.9	527.0	499.0	472.1	450.1	430.2	415.2	405.2	401.2
147.5°	609.2	581.3	555.7	530.4	505.8	480.5	460.9	444.3	430.5	421.0	418.0
150°	602.8	578.9	554.9	531.9	509.0	486.0	468.1	453.1	440.1	432.1	429.2
152.5°	597.2	574.9	553.3	532.7	512.2	491.6	475.3	461.1	449.7	441.7	440.3
155°	586.8	567.9	550.9	533.9	517.0	500.0	485.0	474.1	463.1	457.1	456.1
157.5°	577.1	560.7	546.3	533.9	520.4	506.0	493.4	484.6	475.1	470.3	469.3
160°	569.9	555.9	543.9	533.9	522.0	510.0	499.0	491.0	483.0	479.1	478.1
162.5°	563.5	551.9	541.5	533.1	522.8	512.4	503.8	496.6	490.2	486.2	486.8
165°	552.9	543.9	536.9	531.0	524.0	515.0	509.0	504.0	498.0	496.0	497.0
167.5°	542.5	536.9	532.3	529.6	523.8	517.2	513.4	509.8	506.0	504.2	505.4
170°	536.9	532.9	530.0	528.0	523.0	518.0	515.0	513.0	510.0	509.0	511.0
172.5°	531.4	528.2	526.8	525.6	522.2	518.8	516.6	515.4	512.4	513.0	514.2
175°	524.0	523.0	522.0	523.0	521.0	519.0	518.0	518.0	516.0	517.0	518.0
177.5°	519.8	519.0	519.8	521.4	519.8	519.0	519.0	519.0	517.4	518.2	519.8
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0



TEST NUMBER: P331269

CATALOG NUMBER: S122DIP-S290D925U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	594.2	595.1	598.0	600.9	604.2	605.1	606.5	605.3	604.9	608.3	610.9
5°	595.9	599.9	607.9	615.2	621.3	625.6	630.2	632.0	635.4	640.1	646.1
7.5°	593.9	601.9	614.4	625.0	636.5	644.8	651.3	656.9	663.6	672.6	682.5
10°	591.8	602.4	617.7	630.6	644.7	655.4	664.2	672.9	682.9	695.4	708.3
12.5°	587.8	600.4	619.5	634.8	652.9	663.4	675.3	693.9	704.7	722.1	740.3
15°	579.7	593.8	620.4	639.2	659.7	679.7	701.7	719.4	737.1	747.4	773.0
17.5°	567.8	588.4	617.9	639.9	665.9	697.3	722.1	742.2	762.6	779.2	792.1
20°	558.1	580.6	614.3	640.6	671.5	705.3	733.7	754.2	771.9	785.8	793.7
22.5°	546.0	574.3	607.0	637.9	677.3	710.8	740.6	756.7	771.5	778.3	781.4
25°	526.8	560.9	597.9	635.6	680.1	715.6	742.8	752.6	756.9	750.3	739.4
27.5°	506.1	544.1	587.4	631.3	678.4	712.5	732.0	730.5	723.2	701.8	684.8
30°	490.7	532.5	579.0	627.0	674.2	707.4	718.7	707.4	690.8	667.0	642.6
32.5°	474.5	517.8	570.1	620.8	666.6	695.8	698.2	678.7	653.0	625.9	595.6
35°	450.0	496.8	553.4	607.0	650.4	668.8	657.9	623.3	592.9	555.9	514.5
37.5°	422.3	474.0	530.7	586.8	626.1	630.9	603.8	567.5	524.5	481.0	432.3
40°	401.6	456.4	514.8	571.3	606.1	601.1	566.5	526.6	475.5	422.3	377.1
42.5°	383.1	437.8	497.3	552.8	580.6	566.9	526.6	477.5	422.6	372.5	331.1
45°	351.0	407.3	468.2	521.8	537.7	512.9	459.6	405.0	351.0	309.2	276.5
47.5°	319.8	375.5	435.8	482.9	488.5	455.2	396.9	340.8	294.3	260.3	237.2
50°	296.9	352.8	412.5	454.6	452.7	412.5	352.6	299.2	260.3	232.8	217.4
52.5°	276.4	329.2	386.5	424.8	415.1	371.3	314.0	266.6	234.7	213.2	199.2
55°	244.4	293.3	347.8	378.5	360.7	312.1	263.7	225.6	201.9	185.8	174.9
57.5°	212.7	258.5	305.2	324.1	304.5	259.6	219.3	191.6	173.8	161.9	154.8
60°	193.1	233.1	274.6	291.0	267.6	227.6	195.8	171.1	156.7	147.0	140.6
62.5°	173.5	209.3	248.5	257.4	236.0	202.2	174.0	153.4	141.7	133.0	127.0
65°	146.7	176.1	205.8	211.7	192.0	165.8	143.6	130.2	119.7	113.4	108.6
67.5°	120.4	143.9	165.0	169.7	152.4	134.3	118.2	106.5	99.5	94.2	90.1
70°	104.7	123.4	140.6	144.5	130.6	114.5	102.2	92.9	86.5	82.0	78.1
72.5°	88.2	103.7	118.1	120.7	109.4	97.0	87.0	79.6	74.0	71.1	67.4
75°	67.5	76.6	87.7	88.4	80.9	73.4	65.7	60.9	57.9	54.3	52.5
77.5°	47.6	54.7	61.1	62.3	57.9	52.8	48.5	44.7	42.2	40.5	38.8
80°	36.3	42.0	44.8	46.3	43.2	39.5	37.0	34.5	32.9	31.8	30.7
82.5°	26.0	29.5	32.0	33.3	31.5	29.3	26.9	25.4	24.2	23.3	22.9
85°	13.2	14.8	16.4	16.8	16.4	15.4	14.1	14.1	13.4	13.2	13.2
87.5°	5.3	6.9	7.3	8.2	8.4	9.4	10.8	11.9	11.9	11.5	11.1
90°	4.0	8.0	10.0	12.0	15.0	20.0	26.9	32.9	33.9	32.9	31.9
92.5°	17.6	24.8	29.1	35.9	45.3	67.9	99.6	127.9	129.7	109.6	87.0
95°	38.9	48.9	57.9	73.9	97.8	143.7	230.5	346.3	391.2	342.3	261.5
97.5°	62.3	72.9	86.4	104.8	131.9	189.6	310.6	503.0	667.9	700.6	610.2
100°	79.8	88.8	104.8	124.8	152.7	205.6	327.4	542.9	788.4	932.2	911.2
102.5°	97.4	106.4	122.4	143.1	171.1	220.0	328.2	527.8	792.4	1018.4	1108.4
105°	125.8	132.7	147.7	169.7	197.6	244.5	333.3	498.0	739.5	1005.0	1212.6
107.5°	153.7	160.5	174.3	196.0	224.2	269.7	347.1	483.2	682.9	917.4	1137.6
110°	173.7	179.6	192.6	213.6	242.5	286.4	358.3	480.1	655.7	862.3	1072.9





TEST NUMBER: P331269

CATALOG NUMBER: S122DIP-S290D925U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	191.2	198.0	210.2	230.3	260.1	302.4	370.3	480.8	638.1	824.0	1013.8
115°	219.6	225.6	237.5	257.5	284.4	327.4	388.2	485.0	618.8	776.5	941.1
117.5°	246.9	252.9	263.5	282.6	310.6	350.3	407.4	492.2	609.4	746.5	886.4
120°	264.5	270.5	279.4	299.4	327.4	366.3	420.2	497.0	603.8	730.6	859.3
122.5°	280.4	286.4	296.2	316.2	344.9	381.4	431.3	502.6	600.6	717.0	837.7
125°	302.4	308.4	320.4	340.3	368.3	404.2	449.1	511.0	594.8	697.6	806.4
127.5°	321.0	329.3	342.5	361.7	390.4	425.4	465.7	519.6	591.4	679.7	775.5
130°	331.3	341.3	355.3	375.3	403.2	438.1	476.1	526.0	589.8	667.7	755.5
132.5°	341.7	352.5	367.3	388.0	416.0	449.3	486.4	532.3	589.0	658.1	736.3
135°	355.3	367.3	382.2	405.2	433.1	465.1	500.0	539.9	587.8	644.7	709.6
137.5°	369.7	381.6	397.6	420.4	446.3	477.9	510.4	546.7	587.6	635.3	688.2
140°	379.3	391.2	407.2	429.2	455.1	485.0	516.0	549.9	586.8	629.8	674.7
142.5°	388.8	400.0	416.0	437.1	461.5	490.6	520.8	552.3	586.8	624.2	663.5
145°	405.2	415.2	430.2	450.1	472.1	499.0	527.0	554.9	584.8	616.8	647.7
147.5°	421.0	430.5	444.3	460.9	480.5	505.8	530.4	555.7	581.3	609.2	635.5
150°	432.1	440.1	453.1	468.1	486.0	509.0	531.9	554.9	578.9	602.8	626.8
152.5°	441.7	449.7	461.1	475.3	491.6	512.2	532.7	553.3	574.9	597.2	618.0
155°	457.1	463.1	474.1	485.0	500.0	517.0	533.9	550.9	567.9	586.8	605.8
157.5°	470.3	475.1	484.6	493.4	506.0	520.4	533.9	546.3	560.7	577.1	591.6
160°	479.1	483.0	491.0	499.0	510.0	522.0	533.9	543.9	555.9	569.9	582.8
162.5°	486.2	490.2	496.6	503.8	512.4	522.8	533.1	541.5	551.9	563.5	574.1
165°	496.0	498.0	504.0	509.0	515.0	524.0	531.0	536.9	543.9	552.9	560.9
167.5°	504.2	506.0	509.8	513.4	517.2	523.8	529.6	532.3	536.9	542.5	548.3
170°	509.0	510.0	513.0	515.0	518.0	523.0	528.0	530.0	532.9	536.9	541.9
172.5°	513.0	512.4	515.4	516.6	518.8	522.2	525.6	526.8	528.2	531.4	534.7
175°	517.0	516.0	518.0	518.0	519.0	521.0	523.0	522.0	523.0	524.0	527.0
177.5°	518.2	517.4	519.0	519.0	519.0	519.8	521.4	519.8	519.0	519.8	521.4
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	613.1	615.6	615.6	616.0	618.9	618.5	618.3
5°	652.4	656.3	656.7	660.8	663.5	662.6	660.1
7.5°	689.5	696.7	702.2	705.2	708.8	711.0	710.0
10°	719.0	729.4	735.8	740.1	745.3	749.2	747.8
12.5°	745.7	758.1	766.9	774.3	774.9	779.9	776.5
15°	787.4	800.5	801.9	807.3	811.7	811.2	811.4
17.5°	801.1	805.3	806.2	806.3	806.4	804.8	801.3
20°	796.2	794.6	790.8	787.8	782.6	781.9	777.4
22.5°	772.9	767.9	758.2	751.8	743.7	741.6	740.3
25°	727.2	716.0	700.6	685.8	681.7	673.8	676.0
27.5°	664.3	647.0	630.2	618.3	607.4	595.5	598.9
30°	620.2	600.6	577.0	558.8	547.2	535.9	533.8
32.5°	567.5	538.8	512.5	496.5	478.7	471.5	463.7
35°	476.6	448.6	422.5	400.0	387.1	377.1	368.0
37.5°	394.9	362.7	341.6	323.4	314.0	308.3	309.8
40°	344.2	316.0	300.5	286.7	278.0	274.0	274.9
42.5°	303.1	282.0	269.3	259.8	253.7	251.4	250.9
45°	256.5	244.7	234.2	228.8	225.8	223.3	221.7
47.5°	224.7	215.0	209.1	205.9	203.3	200.8	200.7
50°	205.6	199.2	195.1	191.7	189.7	187.9	189.5
52.5°	191.0	185.2	181.1	178.1	177.3	175.7	175.6
55°	169.5	164.9	162.0	159.2	157.9	157.0	155.8
57.5°	149.8	145.5	142.8	141.1	138.5	137.6	137.2
60°	135.8	132.4	129.7	127.4	126.3	124.5	124.5
62.5°	122.9	119.5	117.0	115.3	113.4	112.7	112.9
65°	104.3	101.5	99.0	97.2	96.8	95.4	95.9
67.5°	87.1	85.3	82.6	81.6	80.8	80.1	79.5
70°	75.6	73.8	72.5	71.1	70.4	70.4	70.4
72.5°	66.0	63.8	63.0	61.3	61.7	61.0	60.2
75°	51.1	49.7	49.1	48.4	47.3	47.3	47.3
77.5°	37.6	37.2	36.4	35.7	35.4	35.2	35.3
80°	29.1	28.8	28.4	28.4	27.9	27.7	27.3
82.5°	22.4	21.8	21.5	21.3	21.2	21.2	21.1
85°	12.7	12.3	12.3	12.5	12.0	12.0	12.3
87.5°	10.9	11.3	11.3	11.3	11.5	11.3	11.3
90°	29.9	31.9	32.9	32.9	32.9	32.9	32.9
92.5°	74.7	66.3	60.1	59.3	56.1	56.9	55.3
95°	200.6	158.7	136.7	123.8	115.8	112.8	113.8
97.5°	499.2	391.2	319.2	271.5	246.9	232.3	224.0
100°	787.4	650.7	530.0	447.1	404.2	375.3	357.3
102.5°	1080.5	980.5	852.5	762.5	689.2	653.1	628.8
105°	1325.4	1338.4	1305.4	1243.5	1181.7	1138.7	1124.8
107.5°	1307.4	1411.2	1459.5	1467.3	1463.9	1455.3	1436.8
110°	1251.5	1379.3	1461.1	1504.0	1523.0	1532.0	1531.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1185.3	1321.8	1415.6	1475.3	1507.0	1524.0	1529.4
115°	1094.8	1225.6	1328.4	1399.2	1445.1	1471.1	1480.1
117.5°	1021.4	1139.9	1236.4	1308.6	1357.1	1384.5	1392.0
120°	983.1	1088.8	1179.7	1249.5	1296.4	1325.4	1335.4
122.5°	951.1	1051.3	1133.4	1196.0	1242.1	1267.9	1276.3
125°	909.2	997.0	1071.9	1129.8	1167.7	1192.6	1200.6
127.5°	868.5	951.3	1020.4	1070.9	1106.4	1128.0	1134.4
130°	841.3	920.2	986.1	1035.0	1068.9	1088.8	1096.8
132.5°	815.8	888.2	950.1	998.2	1032.2	1050.5	1057.7
135°	775.5	841.3	897.2	940.1	973.1	991.0	995.0
137.5°	743.3	795.6	844.3	883.5	911.8	927.6	933.6
140°	722.6	768.5	812.4	844.3	870.3	885.3	891.2
142.5°	704.2	743.7	780.5	810.8	834.4	847.7	848.9
145°	680.7	711.6	740.5	764.5	781.5	791.4	794.4
147.5°	661.5	685.6	706.8	726.6	740.1	746.9	748.7
150°	648.7	669.7	687.6	702.6	714.6	720.6	721.6
152.5°	638.3	656.1	671.7	683.4	693.8	698.2	698.4
155°	621.8	636.7	647.7	658.7	665.7	669.7	667.7
157.5°	605.0	617.6	626.2	633.9	639.7	641.5	641.5
160°	593.8	604.8	611.8	618.8	623.8	624.8	624.8
162.5°	583.4	592.8	598.2	605.2	608.6	609.6	608.8
165°	567.9	574.9	578.9	582.8	586.8	586.8	585.8
167.5°	553.7	558.5	562.1	563.9	566.1	565.9	564.7
170°	544.9	548.9	550.9	551.9	554.9	553.9	551.9
172.5°	536.9	540.1	541.3	542.3	543.7	542.7	541.5
175°	528.0	529.0	530.0	530.0	531.0	530.0	528.0
177.5°	521.4	522.2	522.2	522.2	522.2	521.4	519.8
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0

(END OF REPORT)