

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: P331242

Luminaire Tested: **S122DIP-S290D330U835-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331242
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-S290D330U835-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2584.2 lumens
Efficiency: N/A
Efficacy: 127.3 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: General Diffuse

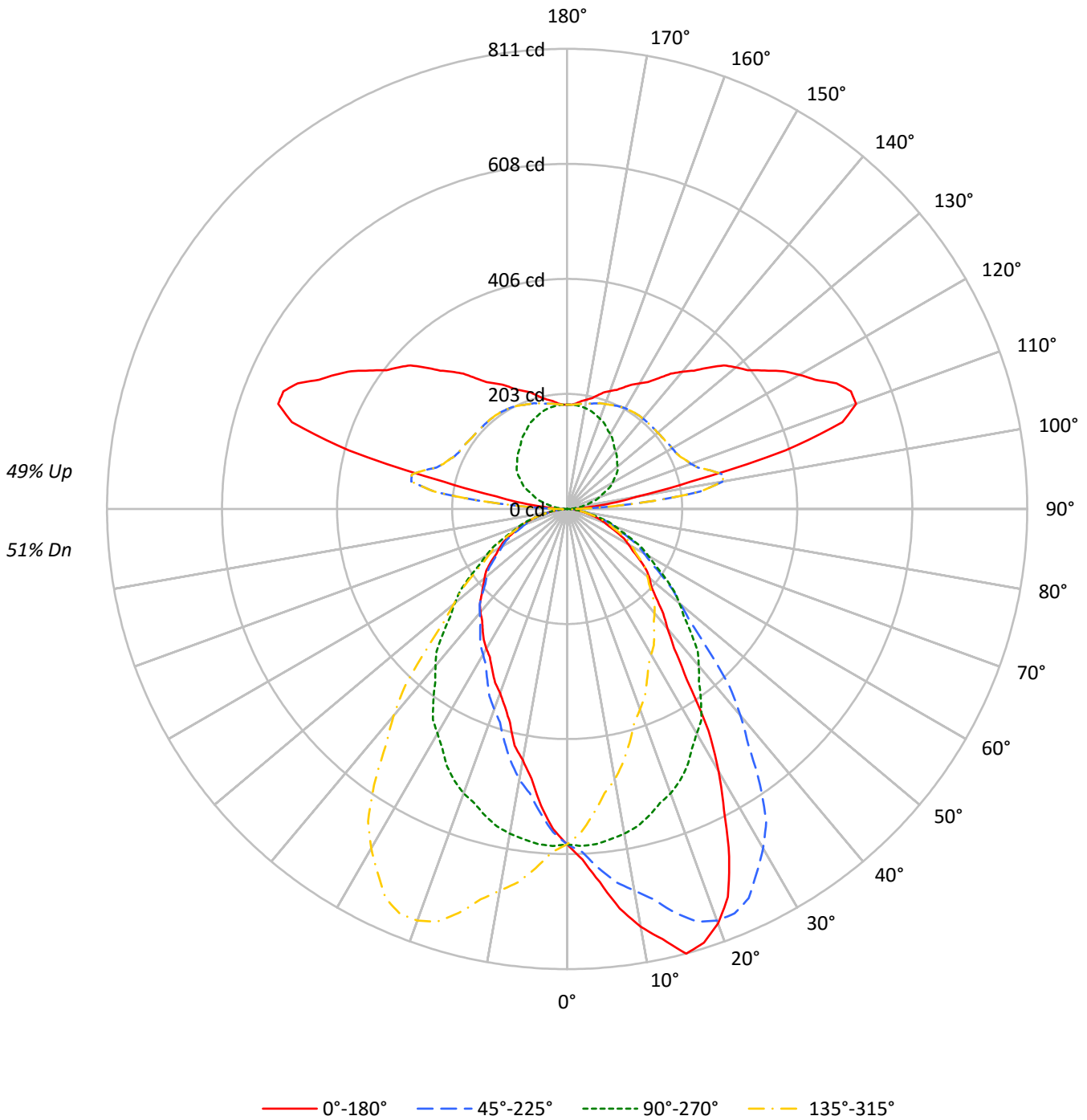
Input Watts (W): 20.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	84	84	84		70	70	70		57	57	57	51
1	98	94	91	87	91	87	84	81	74	72	70		62	60	59		51	50	49	44
2	90	83	77	72	83	77	72	67	65	62	58		55	52	50		45	43	42	37
3	82	73	66	61	76	68	62	57	58	54	50		49	46	43		41	38	36	32
4	76	65	57	52	70	61	54	49	52	47	43		44	40	37		37	34	32	28
5	70	58	50	45	64	54	47	42	47	41	37		40	36	32		33	30	28	25
6	64	53	45	39	59	49	42	37	42	37	33		36	32	29		30	27	25	22
7	60	48	40	34	55	44	38	33	39	33	29		33	29	26		28	25	22	20
8	55	43	36	31	51	41	34	29	35	30	26		30	26	23		26	22	20	18
9	52	40	32	27	48	37	31	26	32	27	23		28	24	21		24	21	18	16
10	48	36	29	25	45	34	28	23	30	25	21		26	22	19		22	19	17	15

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	2.2
10°-20°	163.7	6.3
20°-30°	237.5	9.2
30°-40°	250.6	9.7
40°-50°	221.9	8.6
50°-60°	177.1	6.9
60°-70°	120.4	4.7
70°-80°	61.7	2.4
80°-90°	16.5	0.6
90°-100°	73.5	2.8
100°-110°	249.3	9.6
110°-120°	264.8	10.2
120°-130°	218.0	8.4
130°-140°	175.1	6.8
140°-150°	132.3	5.1
150°-160°	93.0	3.6
160°-170°	54.7	2.1
170°-180°	17.8	0.7
0°-30°	457.5	17.7
0°-40°	708.1	27.4
0°-60°	1107.1	42.8
0°-90°	1305.7	50.5
90°-120°	587.6	22.7
90°-150°	1113.0	43.1
90°-180°	1279.0	49.5
0°-180°	2584.2	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°	12	0	12	0	12	7
95°	40	12	40	12	40	52
105°	398	43	398	43	398	385
115°	524	76	524	76	524	513
125°	425	106	425	106	425	384
135°	352	124	352	124	352	274
145°	281	142	281	142	281	179
155°	236	162	236	162	236	110
165°	207	176	207	176	207	59
175°	187	183	187	183	187	18
180°	184	184	184	184	184	



TEST NUMBER: P331242

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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°	7.1	7.1	7.2	7.1	7.1	7.2	7.0	7.0	7.2	7.5	7.6
90°	11.7	11.7	11.7	11.7	11.7	11.3	10.6	11.3	11.7	12.0	11.7
92.5°	19.6	20.1	19.9	21.0	21.3	23.5	26.4	30.8	38.8	45.9	45.3
95°	40.3	39.9	41.0	43.8	48.4	56.2	71.0	92.6	121.2	138.5	122.6
97.5°	79.3	82.3	87.4	96.1	113.0	138.5	176.7	216.0	248.0	236.4	178.1
100°	126.5	132.9	143.1	158.3	187.6	230.4	278.8	322.6	330.0	279.1	192.2
102.5°	222.6	231.2	244.0	269.9	301.8	347.1	382.5	392.4	360.5	280.5	186.8
105°	398.2	403.1	418.3	440.2	462.2	473.8	469.2	429.3	355.8	261.8	176.3
107.5°	508.7	515.2	518.3	519.5	516.7	499.6	462.9	402.7	324.8	241.7	171.1
110°	542.0	542.4	539.2	532.5	517.3	488.3	443.1	379.8	305.3	232.1	170.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	541.4	539.5	533.5	522.3	501.2	467.9	419.6	358.9	291.7	225.9	170.2
115°	524.0	520.8	511.6	495.4	470.3	433.9	387.6	333.2	274.9	219.1	171.7
117.5°	492.8	490.1	480.5	463.3	437.7	403.6	361.6	313.8	264.3	215.7	174.3
120°	472.8	469.2	459.0	442.4	417.6	385.5	348.0	304.2	258.6	213.8	176.0
122.5°	451.8	448.9	439.8	423.4	401.2	372.2	336.7	296.6	253.8	212.6	177.9
125°	425.1	422.2	413.4	400.0	379.5	353.0	321.9	285.5	247.0	210.6	180.9
127.5°	401.6	399.3	391.7	379.1	361.2	336.8	307.5	274.5	240.6	209.4	183.9
130°	388.3	385.5	378.4	366.4	349.1	325.8	297.9	267.5	236.4	208.8	186.2
132.5°	374.5	371.9	365.4	353.4	336.4	314.5	288.8	260.7	233.0	208.5	188.5
135°	352.3	350.9	344.5	332.8	317.6	297.9	274.5	251.2	228.2	208.1	191.2
137.5°	330.5	328.4	322.8	312.8	298.9	281.7	263.2	243.7	224.9	208.0	193.6
140°	315.5	313.4	308.1	298.9	287.6	272.1	255.8	238.8	222.9	207.8	194.7
142.5°	300.5	300.1	295.4	287.0	276.3	263.3	249.3	234.9	221.0	207.8	195.5
145°	281.2	280.2	276.7	270.6	262.2	251.9	241.0	229.3	218.4	207.0	196.4
147.5°	265.1	264.4	262.0	257.2	250.2	242.7	234.2	225.0	215.7	205.8	196.7
150°	255.5	255.1	253.0	248.7	243.4	237.1	229.7	221.9	213.4	204.9	196.4
152.5°	247.3	247.2	245.6	242.0	237.8	232.3	226.0	218.8	211.4	203.5	195.9
155°	236.4	237.1	235.7	233.2	229.3	225.4	220.1	214.5	207.8	201.0	195.0
157.5°	227.1	227.1	226.5	224.4	221.7	218.6	214.2	209.5	204.3	198.5	193.4
160°	221.2	221.2	220.8	219.1	216.6	214.1	210.2	206.3	201.7	196.8	192.6
162.5°	215.5	215.8	215.5	214.3	211.8	209.9	206.6	203.2	199.5	195.4	191.7
165°	207.4	207.8	207.8	206.3	204.9	203.5	201.0	198.6	195.7	192.6	190.1
167.5°	199.9	200.3	200.4	199.6	199.0	197.7	196.0	194.1	192.1	190.1	188.5
170°	195.4	196.1	196.4	195.4	195.0	194.3	192.9	191.9	190.1	188.7	187.6
172.5°	191.7	192.1	192.5	192.0	191.6	191.2	190.1	189.3	188.1	187.0	186.5
175°	186.9	187.6	188.0	187.6	187.6	187.3	186.9	186.6	185.5	185.1	184.8
177.5°	184.0	184.6	184.9	184.9	184.9	184.9	184.6	184.6	184.0	183.7	184.0
180°	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7



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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°	7.4	6.9	6.5	6.7	6.0	5.8	4.8	4.1	4.1	4.2	4.0
90°	9.5	7.1	5.3	4.2	3.5	2.8	1.4	0.4	1.4	2.8	3.5
92.5°	35.3	24.0	16.0	12.7	10.3	8.8	6.2	4.3	6.2	8.8	10.3
95°	81.6	50.9	34.6	26.1	20.5	17.3	13.8	12.4	13.8	17.3	20.5
97.5°	110.0	67.1	46.7	37.1	30.6	25.8	22.0	20.1	22.0	25.8	30.6
100°	115.9	72.8	54.1	44.2	37.1	31.4	28.3	27.2	28.3	31.4	37.1
102.5°	116.2	77.9	60.6	50.7	43.3	37.7	34.5	33.7	34.5	37.7	43.3
105°	118.0	86.6	70.0	60.1	52.3	47.0	44.5	43.1	44.5	47.0	52.3
107.5°	122.9	95.5	79.4	69.4	61.7	56.8	54.4	53.3	54.4	56.8	61.7
110°	126.8	101.4	85.9	75.6	68.2	63.6	61.5	60.1	61.5	63.6	68.2



TEST NUMBER: P331242

CATALOG NUMBER: S122DIP-S290D330U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	131.1	107.1	92.1	81.5	74.4	70.1	67.7	66.3	67.7	70.1	74.4
115°	137.4	115.9	100.7	91.2	84.1	79.9	77.7	76.0	77.7	79.9	84.1
117.5°	144.2	124.0	110.0	100.1	93.3	89.5	87.4	86.0	87.4	89.5	93.3
120°	148.8	129.7	115.9	106.0	98.9	95.8	93.6	92.2	93.6	95.8	98.9
122.5°	152.7	135.0	122.1	111.9	104.9	101.4	99.3	98.2	99.3	101.4	104.9
125°	159.0	143.1	130.4	120.5	113.4	109.2	107.1	106.0	107.1	109.2	113.4
127.5°	164.9	150.6	138.2	128.0	121.3	116.6	113.6	112.2	113.6	116.6	121.3
130°	168.5	155.1	142.7	132.9	125.8	120.8	117.3	115.9	117.3	120.8	125.8
132.5°	172.2	159.1	147.3	137.4	130.0	124.8	121.0	119.3	121.0	124.8	130.0
135°	177.0	164.7	153.3	143.5	135.3	130.0	125.8	124.4	125.8	130.0	135.3
137.5°	180.7	169.2	158.0	148.8	140.8	135.1	130.9	129.2	130.9	135.1	140.8
140°	182.7	171.7	161.1	151.9	144.2	138.5	134.3	132.9	134.3	138.5	144.2
142.5°	184.4	173.7	163.4	154.8	147.3	141.6	137.7	136.5	137.7	141.6	147.3
145°	186.6	176.7	167.1	159.4	152.3	147.0	143.5	142.0	143.5	147.0	152.3
147.5°	187.8	179.1	170.1	163.2	157.3	152.4	149.0	148.0	149.0	152.4	157.3
150°	188.3	180.2	172.1	165.7	160.4	155.8	153.0	151.9	153.0	155.8	160.4
152.5°	188.6	181.3	174.0	168.3	163.2	159.2	156.4	155.9	156.4	159.2	163.2
155°	189.0	183.0	177.0	171.7	167.8	163.9	161.8	161.5	161.8	163.9	167.8
157.5°	189.0	184.2	179.1	174.7	171.6	168.2	166.5	166.1	166.5	168.2	171.6
160°	189.0	184.8	180.6	176.7	173.8	171.0	169.6	169.2	169.6	171.0	173.8
162.5°	188.7	185.1	181.4	178.4	175.8	173.6	172.1	172.4	172.1	173.6	175.8
165°	188.0	185.5	182.3	180.2	178.4	176.3	175.6	176.0	175.6	176.3	178.4
167.5°	187.5	185.4	183.1	181.8	180.5	179.1	178.5	178.9	178.5	179.1	180.5
170°	186.9	185.1	183.4	182.3	181.6	180.6	180.2	180.9	180.2	180.6	181.6
172.5°	186.1	184.9	183.7	182.9	182.5	181.4	181.6	182.0	181.6	181.4	182.5
175°	185.1	184.4	183.7	183.4	183.4	182.7	183.0	183.4	183.0	182.7	183.4
177.5°	184.6	184.0	183.7	183.7	183.7	183.2	183.4	184.0	183.4	183.2	183.7
180°	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7



TEST NUMBER: P331242

CATALOG NUMBER: S122DIP-S290D330U835-4F0-1E-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°	3.9	4.0	4.1	4.6	4.9	4.8	4.5	4.4	4.3	4.1	4.1
90°	4.2	5.3	7.1	9.5	11.7	12.0	11.7	11.3	10.6	11.3	11.7
92.5°	12.7	16.0	24.0	35.3	45.3	45.9	38.8	30.8	26.4	23.5	21.3
95°	26.1	34.6	50.9	81.6	122.6	138.5	121.2	92.6	71.0	56.2	48.4
97.5°	37.1	46.7	67.1	110.0	178.1	236.4	248.0	216.0	176.7	138.5	113.0
100°	44.2	54.1	72.8	115.9	192.2	279.1	330.0	322.6	278.8	230.4	187.6
102.5°	50.7	60.6	77.9	116.2	186.8	280.5	360.5	392.4	382.5	347.1	301.8
105°	60.1	70.0	86.6	118.0	176.3	261.8	355.8	429.3	469.2	473.8	462.2
107.5°	69.4	79.4	95.5	122.9	171.1	241.7	324.8	402.7	462.9	499.6	516.7
110°	75.6	85.9	101.4	126.8	170.0	232.1	305.3	379.8	443.1	488.3	517.3



TEST NUMBER: P331242

CATALOG NUMBER: S122DIP-S290D330U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	81.5	92.1	107.1	131.1	170.2	225.9	291.7	358.9	419.6	467.9	501.2
115°	91.2	100.7	115.9	137.4	171.7	219.1	274.9	333.2	387.6	433.9	470.3
117.5°	100.1	110.0	124.0	144.2	174.3	215.7	264.3	313.8	361.6	403.6	437.7
120°	106.0	115.9	129.7	148.8	176.0	213.8	258.6	304.2	348.0	385.5	417.6
122.5°	111.9	122.1	135.0	152.7	177.9	212.6	253.8	296.6	336.7	372.2	401.2
125°	120.5	130.4	143.1	159.0	180.9	210.6	247.0	285.5	321.9	353.0	379.5
127.5°	128.0	138.2	150.6	164.9	183.9	209.4	240.6	274.5	307.5	336.8	361.2
130°	132.9	142.7	155.1	168.5	186.2	208.8	236.4	267.5	297.9	325.8	349.1
132.5°	137.4	147.3	159.1	172.2	188.5	208.5	233.0	260.7	288.8	314.5	336.4
135°	143.5	153.3	164.7	177.0	191.2	208.1	228.2	251.2	274.5	297.9	317.6
137.5°	148.8	158.0	169.2	180.7	193.6	208.0	224.9	243.7	263.2	281.7	298.9
140°	151.9	161.1	171.7	182.7	194.7	207.8	222.9	238.8	255.8	272.1	287.6
142.5°	154.8	163.4	173.7	184.4	195.5	207.8	221.0	234.9	249.3	263.3	276.3
145°	159.4	167.1	176.7	186.6	196.4	207.0	218.4	229.3	241.0	251.9	262.2
147.5°	163.2	170.1	179.1	187.8	196.7	205.8	215.7	225.0	234.2	242.7	250.2
150°	165.7	172.1	180.2	188.3	196.4	204.9	213.4	221.9	229.7	237.1	243.4
152.5°	168.3	174.0	181.3	188.6	195.9	203.5	211.4	218.8	226.0	232.3	237.8
155°	171.7	177.0	183.0	189.0	195.0	201.0	207.8	214.5	220.1	225.4	229.3
157.5°	174.7	179.1	184.2	189.0	193.4	198.5	204.3	209.5	214.2	218.6	221.7
160°	176.7	180.6	184.8	189.0	192.6	196.8	201.7	206.3	210.2	214.1	216.6
162.5°	178.4	181.4	185.1	188.7	191.7	195.4	199.5	203.2	206.6	209.9	211.8
165°	180.2	182.3	185.5	188.0	190.1	192.6	195.7	198.6	201.0	203.5	204.9
167.5°	181.8	183.1	185.4	187.5	188.5	190.1	192.1	194.1	196.0	197.7	199.0
170°	182.3	183.4	185.1	186.9	187.6	188.7	190.1	191.9	192.9	194.3	195.0
172.5°	182.9	183.7	184.9	186.1	186.5	187.0	188.1	189.3	190.1	191.2	191.6
175°	183.4	183.7	184.4	185.1	184.8	185.1	185.5	186.6	186.9	187.3	187.6
177.5°	183.7	183.7	184.0	184.6	184.0	183.7	184.0	184.6	184.6	184.9	184.9
180°	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7



TEST NUMBER: P331242

CATALOG NUMBER: S122DIP-S290D330U835-4F0-1E-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°	4.1	4.0	4.0	3.8	4.0	4.0	4.1	4.1	4.1	4.3	4.4
90°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.3	10.6	11.3
92.5°	21.0	19.9	20.1	19.6	20.1	19.9	21.0	21.3	23.5	26.4	30.8
95°	43.8	41.0	39.9	40.3	39.9	41.0	43.8	48.4	56.2	71.0	92.6
97.5°	96.1	87.4	82.3	79.3	82.3	87.4	96.1	113.0	138.5	176.7	216.0
100°	158.3	143.1	132.9	126.5	132.9	143.1	158.3	187.6	230.4	278.8	322.6
102.5°	269.9	244.0	231.2	222.6	231.2	244.0	269.9	301.8	347.1	382.5	392.4
105°	440.2	418.3	403.1	398.2	403.1	418.3	440.2	462.2	473.8	469.2	429.3
107.5°	519.5	518.3	515.2	508.7	515.2	518.3	519.5	516.7	499.6	462.9	402.7
110°	532.5	539.2	542.4	542.0	542.4	539.2	532.5	517.3	488.3	443.1	379.8



TEST NUMBER: P331242

CATALOG NUMBER: S122DIP-S290D330U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	522.3	533.5	539.5	541.4	539.5	533.5	522.3	501.2	467.9	419.6	358.9
115°	495.4	511.6	520.8	524.0	520.8	511.6	495.4	470.3	433.9	387.6	333.2
117.5°	463.3	480.5	490.1	492.8	490.1	480.5	463.3	437.7	403.6	361.6	313.8
120°	442.4	459.0	469.2	472.8	469.2	459.0	442.4	417.6	385.5	348.0	304.2
122.5°	423.4	439.8	448.9	451.8	448.9	439.8	423.4	401.2	372.2	336.7	296.6
125°	400.0	413.4	422.2	425.1	422.2	413.4	400.0	379.5	353.0	321.9	285.5
127.5°	379.1	391.7	399.3	401.6	399.3	391.7	379.1	361.2	336.8	307.5	274.5
130°	366.4	378.4	385.5	388.3	385.5	378.4	366.4	349.1	325.8	297.9	267.5
132.5°	353.4	365.4	371.9	374.5	371.9	365.4	353.4	336.4	314.5	288.8	260.7
135°	332.8	344.5	350.9	352.3	350.9	344.5	332.8	317.6	297.9	274.5	251.2
137.5°	312.8	322.8	328.4	330.5	328.4	322.8	312.8	298.9	281.7	263.2	243.7
140°	298.9	308.1	313.4	315.5	313.4	308.1	298.9	287.6	272.1	255.8	238.8
142.5°	287.0	295.4	300.1	300.5	300.1	295.4	287.0	276.3	263.3	249.3	234.9
145°	270.6	276.7	280.2	281.2	280.2	276.7	270.6	262.2	251.9	241.0	229.3
147.5°	257.2	262.0	264.4	265.1	264.4	262.0	257.2	250.2	242.7	234.2	225.0
150°	248.7	253.0	255.1	255.5	255.1	253.0	248.7	243.4	237.1	229.7	221.9
152.5°	242.0	245.6	247.2	247.3	247.2	245.6	242.0	237.8	232.3	226.0	218.8
155°	233.2	235.7	237.1	236.4	237.1	235.7	233.2	229.3	225.4	220.1	214.5
157.5°	224.4	226.5	227.1	227.1	227.1	226.5	224.4	221.7	218.6	214.2	209.5
160°	219.1	220.8	221.2	221.2	221.2	220.8	219.1	216.6	214.1	210.2	206.3
162.5°	214.3	215.5	215.8	215.5	215.8	215.5	214.3	211.8	209.9	206.6	203.2
165°	206.3	207.8	207.8	207.4	207.8	207.8	206.3	204.9	203.5	201.0	198.6
167.5°	199.6	200.4	200.3	199.9	200.3	200.4	199.6	199.0	197.7	196.0	194.1
170°	195.4	196.4	196.1	195.4	196.1	196.4	195.4	195.0	194.3	192.9	191.9
172.5°	192.0	192.5	192.1	191.7	192.1	192.5	192.0	191.6	191.2	190.1	189.3
175°	187.6	188.0	187.6	186.9	187.6	188.0	187.6	187.6	187.3	186.9	186.6
177.5°	184.9	184.9	184.6	184.0	184.6	184.9	184.9	184.9	184.9	184.6	184.6
180°	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7



TEST NUMBER: P331242

CATALOG NUMBER: S122DIP-S290D330U835-4F0-1E-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°	4.5	4.8	4.9	4.6	4.1	4.0	3.9	4.0	4.2	4.1	4.1
90°	11.7	12.0	11.7	9.5	7.1	5.3	4.2	3.5	2.8	1.4	0.4
92.5°	38.8	45.9	45.3	35.3	24.0	16.0	12.7	10.3	8.8	6.2	4.3
95°	121.2	138.5	122.6	81.6	50.9	34.6	26.1	20.5	17.3	13.8	12.4
97.5°	248.0	236.4	178.1	110.0	67.1	46.7	37.1	30.6	25.8	22.0	20.1
100°	330.0	279.1	192.2	115.9	72.8	54.1	44.2	37.1	31.4	28.3	27.2
102.5°	360.5	280.5	186.8	116.2	77.9	60.6	50.7	43.3	37.7	34.5	33.7
105°	355.8	261.8	176.3	118.0	86.6	70.0	60.1	52.3	47.0	44.5	43.1
107.5°	324.8	241.7	171.1	122.9	95.5	79.4	69.4	61.7	56.8	54.4	53.3
110°	305.3	232.1	170.0	126.8	101.4	85.9	75.6	68.2	63.6	61.5	60.1



TEST NUMBER: P331242

CATALOG NUMBER: S122DIP-S290D330U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	291.7	225.9	170.2	131.1	107.1	92.1	81.5	74.4	70.1	67.7	66.3
115°	274.9	219.1	171.7	137.4	115.9	100.7	91.2	84.1	79.9	77.7	76.0
117.5°	264.3	215.7	174.3	144.2	124.0	110.0	100.1	93.3	89.5	87.4	86.0
120°	258.6	213.8	176.0	148.8	129.7	115.9	106.0	98.9	95.8	93.6	92.2
122.5°	253.8	212.6	177.9	152.7	135.0	122.1	111.9	104.9	101.4	99.3	98.2
125°	247.0	210.6	180.9	159.0	143.1	130.4	120.5	113.4	109.2	107.1	106.0
127.5°	240.6	209.4	183.9	164.9	150.6	138.2	128.0	121.3	116.6	113.6	112.2
130°	236.4	208.8	186.2	168.5	155.1	142.7	132.9	125.8	120.8	117.3	115.9
132.5°	233.0	208.5	188.5	172.2	159.1	147.3	137.4	130.0	124.8	121.0	119.3
135°	228.2	208.1	191.2	177.0	164.7	153.3	143.5	135.3	130.0	125.8	124.4
137.5°	224.9	208.0	193.6	180.7	169.2	158.0	148.8	140.8	135.1	130.9	129.2
140°	222.9	207.8	194.7	182.7	171.7	161.1	151.9	144.2	138.5	134.3	132.9
142.5°	221.0	207.8	195.5	184.4	173.7	163.4	154.8	147.3	141.6	137.7	136.5
145°	218.4	207.0	196.4	186.6	176.7	167.1	159.4	152.3	147.0	143.5	142.0
147.5°	215.7	205.8	196.7	187.8	179.1	170.1	163.2	157.3	152.4	149.0	148.0
150°	213.4	204.9	196.4	188.3	180.2	172.1	165.7	160.4	155.8	153.0	151.9
152.5°	211.4	203.5	195.9	188.6	181.3	174.0	168.3	163.2	159.2	156.4	155.9
155°	207.8	201.0	195.0	189.0	183.0	177.0	171.7	167.8	163.9	161.8	161.5
157.5°	204.3	198.5	193.4	189.0	184.2	179.1	174.7	171.6	168.2	166.5	166.1
160°	201.7	196.8	192.6	189.0	184.8	180.6	176.7	173.8	171.0	169.6	169.2
162.5°	199.5	195.4	191.7	188.7	185.1	181.4	178.4	175.8	173.6	172.1	172.4
165°	195.7	192.6	190.1	188.0	185.5	182.3	180.2	178.4	176.3	175.6	176.0
167.5°	192.1	190.1	188.5	187.5	185.4	183.1	181.8	180.5	179.1	178.5	178.9
170°	190.1	188.7	187.6	186.9	185.1	183.4	182.3	181.6	180.6	180.2	180.9
172.5°	188.1	187.0	186.5	186.1	184.9	183.7	182.9	182.5	181.4	181.6	182.0
175°	185.5	185.1	184.8	185.1	184.4	183.7	183.4	183.4	182.7	183.0	183.4
177.5°	184.0	183.7	184.0	184.6	184.0	183.7	183.7	183.7	183.2	183.4	184.0
180°	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7



TEST NUMBER: P331242

CATALOG NUMBER: S122DIP-S290D330U835-4F0-1E-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°	4.8	5.8	6.0	6.7	6.5	6.9	7.4	7.6	7.5	7.2	7.0
90°	1.4	2.8	3.5	4.2	5.3	7.1	9.5	11.7	12.0	11.7	11.3
92.5°	6.2	8.8	10.3	12.7	16.0	24.0	35.3	45.3	45.9	38.8	30.8
95°	13.8	17.3	20.5	26.1	34.6	50.9	81.6	122.6	138.5	121.2	92.6
97.5°	22.0	25.8	30.6	37.1	46.7	67.1	110.0	178.1	236.4	248.0	216.0
100°	28.3	31.4	37.1	44.2	54.1	72.8	115.9	192.2	279.1	330.0	322.6
102.5°	34.5	37.7	43.3	50.7	60.6	77.9	116.2	186.8	280.5	360.5	392.4
105°	44.5	47.0	52.3	60.1	70.0	86.6	118.0	176.3	261.8	355.8	429.3
107.5°	54.4	56.8	61.7	69.4	79.4	95.5	122.9	171.1	241.7	324.8	402.7
110°	61.5	63.6	68.2	75.6	85.9	101.4	126.8	170.0	232.1	305.3	379.8



TEST NUMBER: P331242

CATALOG NUMBER: S122DIP-S290D330U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	67.7	70.1	74.4	81.5	92.1	107.1	131.1	170.2	225.9	291.7	358.9
115°	77.7	79.9	84.1	91.2	100.7	115.9	137.4	171.7	219.1	274.9	333.2
117.5°	87.4	89.5	93.3	100.1	110.0	124.0	144.2	174.3	215.7	264.3	313.8
120°	93.6	95.8	98.9	106.0	115.9	129.7	148.8	176.0	213.8	258.6	304.2
122.5°	99.3	101.4	104.9	111.9	122.1	135.0	152.7	177.9	212.6	253.8	296.6
125°	107.1	109.2	113.4	120.5	130.4	143.1	159.0	180.9	210.6	247.0	285.5
127.5°	113.6	116.6	121.3	128.0	138.2	150.6	164.9	183.9	209.4	240.6	274.5
130°	117.3	120.8	125.8	132.9	142.7	155.1	168.5	186.2	208.8	236.4	267.5
132.5°	121.0	124.8	130.0	137.4	147.3	159.1	172.2	188.5	208.5	233.0	260.7
135°	125.8	130.0	135.3	143.5	153.3	164.7	177.0	191.2	208.1	228.2	251.2
137.5°	130.9	135.1	140.8	148.8	158.0	169.2	180.7	193.6	208.0	224.9	243.7
140°	134.3	138.5	144.2	151.9	161.1	171.7	182.7	194.7	207.8	222.9	238.8
142.5°	137.7	141.6	147.3	154.8	163.4	173.7	184.4	195.5	207.8	221.0	234.9
145°	143.5	147.0	152.3	159.4	167.1	176.7	186.6	196.4	207.0	218.4	229.3
147.5°	149.0	152.4	157.3	163.2	170.1	179.1	187.8	196.7	205.8	215.7	225.0
150°	153.0	155.8	160.4	165.7	172.1	180.2	188.3	196.4	204.9	213.4	221.9
152.5°	156.4	159.2	163.2	168.3	174.0	181.3	188.6	195.9	203.5	211.4	218.8
155°	161.8	163.9	167.8	171.7	177.0	183.0	189.0	195.0	201.0	207.8	214.5
157.5°	166.5	168.2	171.6	174.7	179.1	184.2	189.0	193.4	198.5	204.3	209.5
160°	169.6	171.0	173.8	176.7	180.6	184.8	189.0	192.6	196.8	201.7	206.3
162.5°	172.1	173.6	175.8	178.4	181.4	185.1	188.7	191.7	195.4	199.5	203.2
165°	175.6	176.3	178.4	180.2	182.3	185.5	188.0	190.1	192.6	195.7	198.6
167.5°	178.5	179.1	180.5	181.8	183.1	185.4	187.5	188.5	190.1	192.1	194.1
170°	180.2	180.6	181.6	182.3	183.4	185.1	186.9	187.6	188.7	190.1	191.9
172.5°	181.6	181.4	182.5	182.9	183.7	184.9	186.1	186.5	187.0	188.1	189.3
175°	183.0	182.7	183.4	183.4	183.7	184.4	185.1	184.8	185.1	185.5	186.6
177.5°	183.4	183.2	183.7	183.7	183.7	184.0	184.6	184.0	183.7	184.0	184.6
180°	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7



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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°	7.0	7.2	7.1	7.1	7.2	7.1	7.1
90°	10.6	11.3	11.7	11.7	11.7	11.7	11.7
92.5°	26.4	23.5	21.3	21.0	19.9	20.1	19.6
95°	71.0	56.2	48.4	43.8	41.0	39.9	40.3
97.5°	176.7	138.5	113.0	96.1	87.4	82.3	79.3
100°	278.8	230.4	187.6	158.3	143.1	132.9	126.5
102.5°	382.5	347.1	301.8	269.9	244.0	231.2	222.6
105°	469.2	473.8	462.2	440.2	418.3	403.1	398.2
107.5°	462.9	499.6	516.7	519.5	518.3	515.2	508.7
110°	443.1	488.3	517.3	532.5	539.2	542.4	542.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	419.6	467.9	501.2	522.3	533.5	539.5	541.4
115°	387.6	433.9	470.3	495.4	511.6	520.8	524.0
117.5°	361.6	403.6	437.7	463.3	480.5	490.1	492.8
120°	348.0	385.5	417.6	442.4	459.0	469.2	472.8
122.5°	336.7	372.2	401.2	423.4	439.8	448.9	451.8
125°	321.9	353.0	379.5	400.0	413.4	422.2	425.1
127.5°	307.5	336.8	361.2	379.1	391.7	399.3	401.6
130°	297.9	325.8	349.1	366.4	378.4	385.5	388.3
132.5°	288.8	314.5	336.4	353.4	365.4	371.9	374.5
135°	274.5	297.9	317.6	332.8	344.5	350.9	352.3
137.5°	263.2	281.7	298.9	312.8	322.8	328.4	330.5
140°	255.8	272.1	287.6	298.9	308.1	313.4	315.5
142.5°	249.3	263.3	276.3	287.0	295.4	300.1	300.5
145°	241.0	251.9	262.2	270.6	276.7	280.2	281.2
147.5°	234.2	242.7	250.2	257.2	262.0	264.4	265.1
150°	229.7	237.1	243.4	248.7	253.0	255.1	255.5
152.5°	226.0	232.3	237.8	242.0	245.6	247.2	247.3
155°	220.1	225.4	229.3	233.2	235.7	237.1	236.4
157.5°	214.2	218.6	221.7	224.4	226.5	227.1	227.1
160°	210.2	214.1	216.6	219.1	220.8	221.2	221.2
162.5°	206.6	209.9	211.8	214.3	215.5	215.8	215.5
165°	201.0	203.5	204.9	206.3	207.8	207.8	207.4
167.5°	196.0	197.7	199.0	199.6	200.4	200.3	199.9
170°	192.9	194.3	195.0	195.4	196.4	196.1	195.4
172.5°	190.1	191.2	191.6	192.0	192.5	192.1	191.7
175°	186.9	187.3	187.6	187.6	188.0	187.6	186.9
177.5°	184.6	184.9	184.9	184.9	184.9	184.6	184.0
180°	183.7	183.7	183.7	183.7	183.7	183.7	183.7

(END OF REPORT)