

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: P331466

Luminaire Tested: **S122DIW-S290D435U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331466
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S290D435U835-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 435 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2807.4 lumens
Efficiency: N/A
Efficacy: 122.1 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

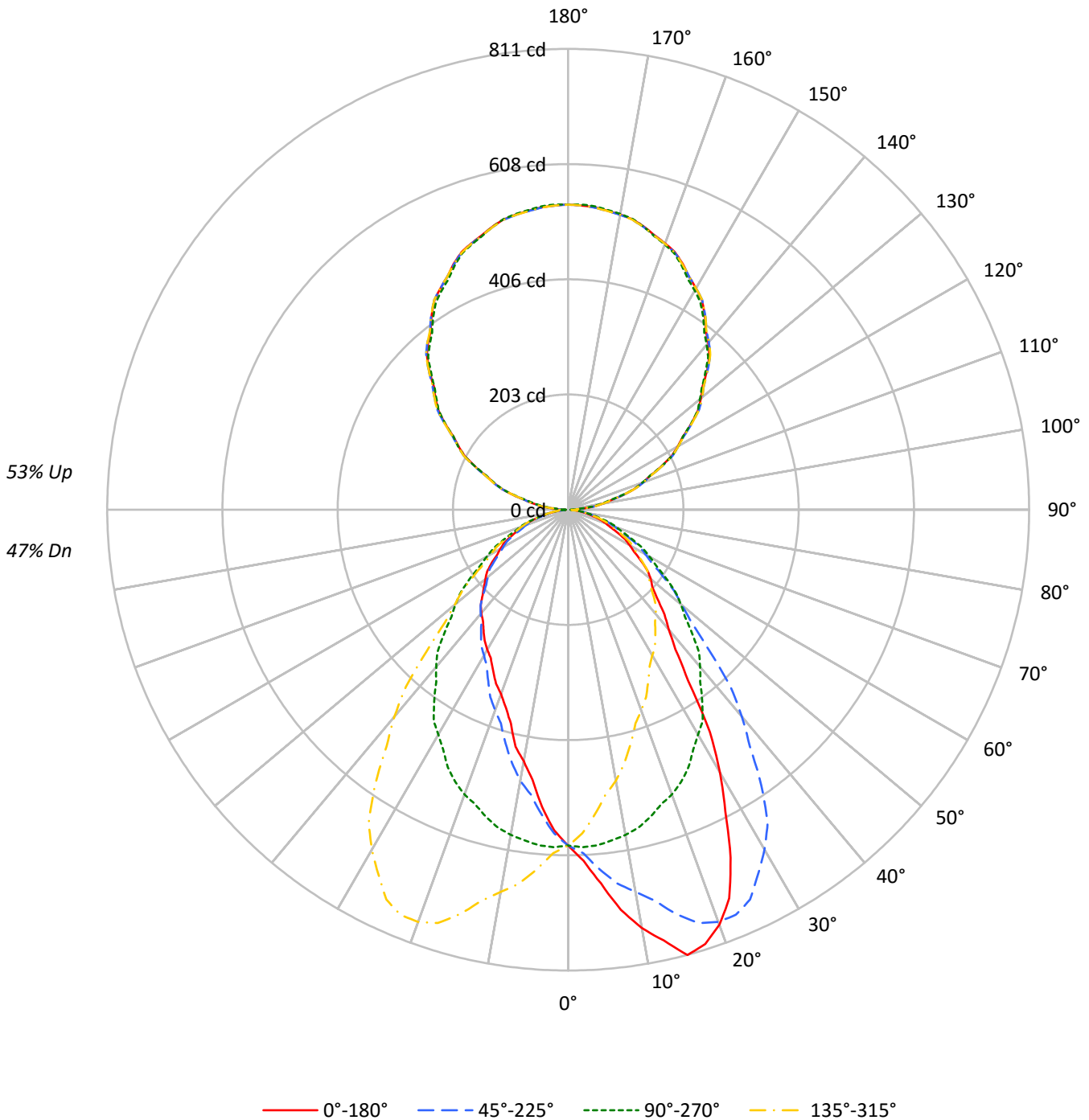
Input Watts (W): 23
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	47
1	97	93	90	86	89	86	83	80	72	70	68	59	58	56	47	46	46	40
2	89	82	76	71	82	76	71	66	64	60	57	53	50	48	42	41	39	34
3	82	72	65	60	75	67	61	56	56	52	48	47	44	41	38	36	34	30
4	75	64	57	51	69	60	53	48	50	45	41	42	38	35	34	32	29	26
5	69	58	50	44	63	53	46	41	45	40	36	38	34	31	31	28	26	23
6	64	52	44	38	58	48	41	36	41	36	32	34	30	27	28	25	23	20
7	59	47	39	34	54	44	37	32	37	32	28	31	27	24	26	23	21	18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	32	27	47	36	30	25	31	26	23	27	23	20	22	19	17	15
10	48	36	29	24	44	33	27	23	29	24	20	25	21	18	21	18	15	14

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	2.0
10°-20°	163.7	5.8
20°-30°	237.5	8.5
30°-40°	250.6	8.9
40°-50°	221.9	7.9
50°-60°	177.1	6.3
60°-70°	120.4	4.3
70°-80°	61.7	2.2
80°-90°	17.0	0.6
90°-100°	34.0	1.2
100°-110°	105.7	3.8
110°-120°	180.6	6.4
120°-130°	237.5	8.5
130°-140°	266.6	9.5
140°-150°	261.4	9.3
150°-160°	219.2	7.8
160°-170°	145.4	5.2
170°-180°	50.8	1.8
0°-30°	457.5	16.3
0°-40°	708.1	25.2
0°-60°	1107.1	39.4
0°-90°	1306.2	46.5
90°-120°	320.3	11.4
90°-150°	1085.7	38.7
90°-180°	1501.0	53.5
0°-180°	2807.4	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°	15	0	15	0	15	7
95°	28	24	28	24	28	31
105°	101	97	101	97	101	106
115°	181	181	181	181	181	179
125°	265	264	265	264	265	236
135°	345	341	345	341	345	266
145°	419	414	419	414	419	261
155°	477	473	477	473	477	220
165°	516	515	516	515	516	145
175°	534	536	534	536	534	51
180°	537	537	537	537	537	



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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°	7.8	7.8	7.9	7.7	7.7	7.9	8.0	7.8	8.0	8.3	8.0
90°	15.4	15.3	15.2	15.1	15.0	15.1	15.3	15.5	15.7	15.9	13.6
92.5°	14.7	14.7	14.6	14.6	14.6	14.6	14.5	14.5	14.4	14.4	13.9
95°	28.1	28.3	28.5	28.7	28.9	29.0	29.0	29.0	29.0	29.0	28.8
97.5°	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.4
100°	62.1	62.2	62.3	62.4	62.5	62.5	62.5	62.5	62.5	62.5	62.2
102.5°	77.3	77.4	77.5	77.6	77.7	77.7	77.6	77.5	77.5	77.4	77.0
105°	100.6	100.6	100.6	100.6	100.6	100.5	100.3	100.1	99.9	99.7	99.5
107.5°	122.5	123.0	123.4	123.9	124.4	124.6	124.5	124.4	124.3	124.2	124.2
110°	139.5	139.8	140.1	140.4	140.7	140.9	140.9	140.9	140.9	140.9	140.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	155.9	156.1	156.3	156.5	156.7	157.0	157.2	157.5	157.7	157.9	158.0
115°	181.2	181.5	181.8	182.1	182.4	182.6	182.7	182.8	182.9	183.0	183.2
117.5°	205.4	205.7	206.0	206.3	206.6	206.9	207.1	207.4	207.6	207.9	208.4
120°	222.5	222.8	223.1	223.4	223.7	223.8	223.8	223.8	223.8	223.8	224.6
122.5°	239.1	239.3	239.6	239.8	240.0	240.2	240.5	240.7	241.0	241.2	241.8
125°	264.6	264.7	264.8	264.9	265.0	265.2	265.5	265.8	266.1	266.4	266.7
127.5°	287.8	288.1	288.4	288.7	289.1	289.4	289.8	290.1	290.5	290.9	291.2
130°	304.5	304.9	305.3	305.7	306.1	306.4	306.6	306.8	307.0	307.2	307.4
132.5°	320.4	320.7	321.0	321.4	321.7	322.1	322.5	323.0	323.4	323.8	323.8
135°	345.2	345.5	345.8	346.1	346.4	346.6	346.7	346.8	346.9	347.0	346.8
137.5°	367.7	368.1	368.5	368.9	369.3	369.6	369.6	369.7	369.8	369.9	369.6
140°	383.3	383.7	384.1	384.5	384.9	385.1	385.1	385.1	385.1	385.1	384.6
142.5°	397.4	397.8	398.2	398.6	399.0	399.2	399.1	399.0	399.0	398.9	398.5
145°	418.6	419.0	419.4	419.8	420.2	420.4	420.3	420.2	420.1	420.0	419.4
147.5°	437.6	437.9	438.3	438.7	439.1	439.2	439.0	438.7	438.5	438.3	437.9
150°	449.9	450.2	450.5	450.8	451.1	451.1	450.8	450.5	450.2	449.9	449.5
152.5°	461.5	461.9	462.2	462.6	463.0	463.0	462.6	462.2	461.9	461.5	461.0
155°	477.1	477.4	477.7	478.0	478.3	478.2	477.7	477.2	476.7	476.2	475.9
157.5°	490.5	491.0	491.4	491.9	492.4	492.3	491.6	490.9	490.3	489.6	489.4
160°	498.8	499.2	499.6	500.0	500.4	500.3	499.7	499.1	498.5	497.9	497.8
162.5°	506.1	506.5	507.0	507.5	508.0	507.9	507.2	506.5	505.8	505.2	505.1
165°	515.6	516.1	516.6	517.1	517.6	517.5	516.8	516.1	515.4	514.7	514.7
167.5°	523.4	523.9	524.4	524.9	525.5	525.4	524.7	524.0	523.3	522.6	522.6
170°	527.4	528.0	528.6	529.2	529.8	529.7	529.0	528.3	527.6	526.9	527.0
172.5°	530.6	531.2	531.8	532.4	533.0	533.0	532.3	531.6	530.9	530.2	530.3
175°	534.2	534.8	535.4	536.0	536.6	536.5	535.8	535.1	534.4	533.7	533.9
177.5°	535.8	536.3	536.8	537.2	537.7	537.7	537.2	536.8	536.3	535.8	535.9
180°	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9



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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°	7.7	7.3	6.9	6.9	6.1	5.8	4.9	4.1	4.1	4.2	4.1
90°	11.4	9.2	7.0	5.3	4.1	2.9	1.7	0.5	1.7	2.9	4.1
92.5°	13.4	12.8	12.3	11.6	10.7	9.8	9.0	8.1	9.0	9.8	10.7
95°	28.6	28.4	28.2	27.6	26.6	25.6	24.6	23.6	24.6	25.6	26.6
97.5°	48.0	47.6	47.2	46.6	45.7	44.8	43.9	43.0	43.9	44.8	45.7
100°	61.9	61.6	61.3	60.8	60.0	59.1	58.3	57.5	58.3	59.1	60.0
102.5°	76.6	76.2	75.9	75.3	74.7	74.0	73.4	72.8	73.4	74.0	74.7
105°	99.3	99.1	98.9	98.6	98.3	98.0	97.7	97.4	97.7	98.0	98.3
107.5°	124.2	124.2	124.2	124.0	123.6	123.1	122.7	122.2	122.7	123.1	123.6
110°	140.9	140.9	140.9	140.6	140.0	139.4	138.8	138.2	138.8	139.4	140.0



TEST NUMBER: P331466

CATALOG NUMBER: S122DIW-S290D435U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	158.1	158.2	158.3	158.0	157.4	156.8	156.2	155.6	156.2	156.8	157.4
115°	183.4	183.6	183.8	183.6	183.0	182.4	181.8	181.2	181.8	182.4	183.0
117.5°	209.0	209.6	210.1	210.0	209.2	208.4	207.6	206.8	207.6	208.4	209.2
120°	225.4	226.2	227.0	227.0	226.2	225.4	224.6	223.8	224.6	225.4	226.2
122.5°	242.3	242.9	243.5	243.3	242.3	241.3	240.4	239.4	240.4	241.3	242.3
125°	267.0	267.3	267.6	267.3	266.4	265.5	264.6	263.7	264.6	265.5	266.4
127.5°	291.6	292.0	292.3	291.9	290.8	289.6	288.5	287.3	288.5	289.6	290.8
130°	307.6	307.8	308.0	307.4	306.1	304.8	303.5	302.2	303.5	304.8	306.1
132.5°	323.8	323.7	323.7	323.1	322.1	321.0	319.9	318.9	319.9	321.0	322.1
135°	346.6	346.4	346.2	345.6	344.5	343.4	342.3	341.2	342.3	343.4	344.5
137.5°	369.4	369.1	368.8	368.2	367.3	366.4	365.5	364.6	365.5	366.4	367.3
140°	384.1	383.6	383.1	382.4	381.5	380.6	379.7	378.8	379.7	380.6	381.5
142.5°	398.2	397.8	397.5	396.9	396.0	395.1	394.2	393.3	394.2	395.1	396.0
145°	418.8	418.2	417.6	416.9	416.2	415.5	414.8	414.1	414.8	415.5	416.2
147.5°	437.5	437.1	436.7	436.1	435.2	434.4	433.5	432.7	433.5	434.4	435.2
150°	449.1	448.7	448.3	447.8	447.2	446.6	446.0	445.4	446.0	446.6	447.2
152.5°	460.5	460.0	459.6	459.0	458.4	457.8	457.2	456.6	457.2	457.8	458.4
155°	475.6	475.3	475.0	474.7	474.4	474.0	473.7	473.4	473.7	474.0	474.4
157.5°	489.2	489.0	488.8	488.7	488.5	488.3	488.1	487.9	488.1	488.3	488.5
160°	497.7	497.6	497.5	497.4	497.2	497.0	496.8	496.6	496.8	497.0	497.2
162.5°	505.0	504.9	504.8	504.7	504.6	504.6	504.6	504.5	504.6	504.6	504.6
165°	514.7	514.7	514.7	514.7	514.8	514.9	515.0	515.1	515.0	514.9	514.8
167.5°	522.6	522.6	522.6	522.8	523.1	523.4	523.7	524.0	523.7	523.4	523.1
170°	527.1	527.2	527.3	527.5	527.8	528.1	528.4	528.7	528.4	528.1	527.8
172.5°	530.4	530.5	530.6	530.8	531.1	531.4	531.7	532.0	531.7	531.4	531.1
175°	534.1	534.3	534.5	534.8	535.1	535.4	535.7	536.0	535.7	535.4	535.1
177.5°	536.1	536.3	536.4	536.6	536.9	537.1	537.4	537.6	537.4	537.1	536.9
180°	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9



TEST NUMBER: P331466

CATALOG NUMBER: S122DIW-S290D435U835-4F0-1E-UDD-A1

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°	4.1	4.3	4.6	5.0	5.3	5.5	5.3	5.3	5.2	4.8	4.8
90°	5.3	7.0	9.2	11.4	13.6	15.9	15.7	15.5	15.3	15.1	15.0
92.5°	11.6	12.3	12.8	13.4	13.9	14.4	14.4	14.5	14.5	14.6	14.6
95°	27.6	28.2	28.4	28.6	28.8	29.0	29.0	29.0	29.0	29.0	28.9
97.5°	46.6	47.2	47.6	48.0	48.4	48.7	48.7	48.7	48.7	48.7	48.7
100°	60.8	61.3	61.6	61.9	62.2	62.5	62.5	62.5	62.5	62.5	62.5
102.5°	75.3	75.9	76.2	76.6	77.0	77.4	77.5	77.5	77.6	77.7	77.7
105°	98.6	98.9	99.1	99.3	99.5	99.7	99.9	100.1	100.3	100.5	100.6
107.5°	124.0	124.2	124.2	124.2	124.2	124.2	124.3	124.4	124.5	124.6	124.4
110°	140.6	140.9	140.9	140.9	140.9	140.9	140.9	140.9	140.9	140.9	140.7



TEST NUMBER: P331466

CATALOG NUMBER: S122DIW-S290D435U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	158.0	158.3	158.2	158.1	158.0	157.9	157.7	157.5	157.2	157.0	156.7
115°	183.6	183.8	183.6	183.4	183.2	183.0	182.9	182.8	182.7	182.6	182.4
117.5°	210.0	210.1	209.6	209.0	208.4	207.9	207.6	207.4	207.1	206.9	206.6
120°	227.0	227.0	226.2	225.4	224.6	223.8	223.8	223.8	223.8	223.8	223.7
122.5°	243.3	243.5	242.9	242.3	241.8	241.2	241.0	240.7	240.5	240.2	240.0
125°	267.3	267.6	267.3	267.0	266.7	266.4	266.1	265.8	265.5	265.2	265.0
127.5°	291.9	292.3	292.0	291.6	291.2	290.9	290.5	290.1	289.8	289.4	289.1
130°	307.4	308.0	307.8	307.6	307.4	307.2	307.0	306.8	306.6	306.4	306.1
132.5°	323.1	323.7	323.7	323.8	323.8	323.8	323.4	323.0	322.5	322.1	321.7
135°	345.6	346.2	346.4	346.6	346.8	347.0	346.9	346.8	346.7	346.6	346.4
137.5°	368.2	368.8	369.1	369.4	369.6	369.9	369.8	369.7	369.6	369.6	369.3
140°	382.4	383.1	383.6	384.1	384.6	385.1	385.1	385.1	385.1	385.1	384.9
142.5°	396.9	397.5	397.8	398.2	398.5	398.9	399.0	399.0	399.1	399.2	399.0
145°	416.9	417.6	418.2	418.8	419.4	420.0	420.1	420.2	420.3	420.4	420.2
147.5°	436.1	436.7	437.1	437.5	437.9	438.3	438.5	438.7	439.0	439.2	439.1
150°	447.8	448.3	448.7	449.1	449.5	449.9	450.2	450.5	450.8	451.1	451.1
152.5°	459.0	459.6	460.0	460.5	461.0	461.5	461.9	462.2	462.6	463.0	463.0
155°	474.7	475.0	475.3	475.6	475.9	476.2	476.7	477.2	477.7	478.2	478.3
157.5°	488.7	488.8	489.0	489.2	489.4	489.6	490.3	490.9	491.6	492.3	492.4
160°	497.4	497.5	497.6	497.7	497.8	497.9	498.5	499.1	499.7	500.3	500.4
162.5°	504.7	504.8	504.9	505.0	505.1	505.2	505.8	506.5	507.2	507.9	508.0
165°	514.7	514.7	514.7	514.7	514.7	514.7	515.4	516.1	516.8	517.5	517.6
167.5°	522.8	522.6	522.6	522.6	522.6	522.6	523.3	524.0	524.7	525.4	525.5
170°	527.5	527.3	527.2	527.1	527.0	526.9	527.6	528.3	529.0	529.7	529.8
172.5°	530.8	530.6	530.5	530.4	530.3	530.2	530.9	531.6	532.3	533.0	533.0
175°	534.8	534.5	534.3	534.1	533.9	533.7	534.4	535.1	535.8	536.5	536.6
177.5°	536.6	536.4	536.3	536.1	535.9	535.8	536.3	536.8	537.2	537.7	537.7
180°	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9



TEST NUMBER: P331466

CATALOG NUMBER: S122DIW-S290D435U835-4F0-1E-UDD-A1

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°	4.8	4.7	4.7	4.5	4.7	4.7	4.8	4.8	4.8	5.2	5.3
90°	15.1	15.2	15.3	15.4	15.3	15.2	15.1	15.0	15.1	15.3	15.5
92.5°	14.6	14.6	14.7	14.7	14.7	14.6	14.6	14.6	14.6	14.5	14.5
95°	28.7	28.5	28.3	28.1	28.3	28.5	28.7	28.9	29.0	29.0	29.0
97.5°	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
100°	62.4	62.3	62.2	62.1	62.2	62.3	62.4	62.5	62.5	62.5	62.5
102.5°	77.6	77.5	77.4	77.3	77.4	77.5	77.6	77.7	77.7	77.6	77.5
105°	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.5	100.3	100.1
107.5°	123.9	123.4	123.0	122.5	123.0	123.4	123.9	124.4	124.6	124.5	124.4
110°	140.4	140.1	139.8	139.5	139.8	140.1	140.4	140.7	140.9	140.9	140.9



TEST NUMBER: P331466

CATALOG NUMBER: S122DIW-S290D435U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	156.5	156.3	156.1	155.9	156.1	156.3	156.5	156.7	157.0	157.2	157.5
115°	182.1	181.8	181.5	181.2	181.5	181.8	182.1	182.4	182.6	182.7	182.8
117.5°	206.3	206.0	205.7	205.4	205.7	206.0	206.3	206.6	206.9	207.1	207.4
120°	223.4	223.1	222.8	222.5	222.8	223.1	223.4	223.7	223.8	223.8	223.8
122.5°	239.8	239.6	239.3	239.1	239.3	239.6	239.8	240.0	240.2	240.5	240.7
125°	264.9	264.8	264.7	264.6	264.7	264.8	264.9	265.0	265.2	265.5	265.8
127.5°	288.7	288.4	288.1	287.8	288.1	288.4	288.7	289.1	289.4	289.8	290.1
130°	305.7	305.3	304.9	304.5	304.9	305.3	305.7	306.1	306.4	306.6	306.8
132.5°	321.4	321.0	320.7	320.4	320.7	321.0	321.4	321.7	322.1	322.5	323.0
135°	346.1	345.8	345.5	345.2	345.5	345.8	346.1	346.4	346.6	346.7	346.8
137.5°	368.9	368.5	368.1	367.7	368.1	368.5	368.9	369.3	369.6	369.6	369.7
140°	384.5	384.1	383.7	383.3	383.7	384.1	384.5	384.9	385.1	385.1	385.1
142.5°	398.6	398.2	397.8	397.4	397.8	398.2	398.6	399.0	399.2	399.1	399.0
145°	419.8	419.4	419.0	418.6	419.0	419.4	419.8	420.2	420.4	420.3	420.2
147.5°	438.7	438.3	437.9	437.6	437.9	438.3	438.7	439.1	439.2	439.0	438.7
150°	450.8	450.5	450.2	449.9	450.2	450.5	450.8	451.1	451.1	450.8	450.5
152.5°	462.6	462.2	461.9	461.5	461.9	462.2	462.6	463.0	463.0	462.6	462.2
155°	478.0	477.7	477.4	477.1	477.4	477.7	478.0	478.3	478.2	477.7	477.2
157.5°	491.9	491.4	491.0	490.5	491.0	491.4	491.9	492.4	492.3	491.6	490.9
160°	500.0	499.6	499.2	498.8	499.2	499.6	500.0	500.4	500.3	499.7	499.1
162.5°	507.5	507.0	506.5	506.1	506.5	507.0	507.5	508.0	507.9	507.2	506.5
165°	517.1	516.6	516.1	515.6	516.1	516.6	517.1	517.6	517.5	516.8	516.1
167.5°	524.9	524.4	523.9	523.4	523.9	524.4	524.9	525.5	525.4	524.7	524.0
170°	529.2	528.6	528.0	527.4	528.0	528.6	529.2	529.8	529.7	529.0	528.3
172.5°	532.4	531.8	531.2	530.6	531.2	531.8	532.4	533.0	533.0	532.3	531.6
175°	536.0	535.4	534.8	534.2	534.8	535.4	536.0	536.6	536.5	535.8	535.1
177.5°	537.2	536.8	536.3	535.8	536.3	536.8	537.2	537.7	537.7	537.2	536.8
180°	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9



TEST NUMBER: P331466

CATALOG NUMBER: S122DIW-S290D435U835-4F0-1E-UDD-A1

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°	5.3	5.5	5.3	5.0	4.6	4.3	4.1	4.1	4.2	4.1	4.1
90°	15.7	15.9	13.6	11.4	9.2	7.0	5.3	4.1	2.9	1.7	0.5
92.5°	14.4	14.4	13.9	13.4	12.8	12.3	11.6	10.7	9.8	9.0	8.1
95°	29.0	29.0	28.8	28.6	28.4	28.2	27.6	26.6	25.6	24.6	23.6
97.5°	48.7	48.7	48.4	48.0	47.6	47.2	46.6	45.7	44.8	43.9	43.0
100°	62.5	62.5	62.2	61.9	61.6	61.3	60.8	60.0	59.1	58.3	57.5
102.5°	77.5	77.4	77.0	76.6	76.2	75.9	75.3	74.7	74.0	73.4	72.8
105°	99.9	99.7	99.5	99.3	99.1	98.9	98.6	98.3	98.0	97.7	97.4
107.5°	124.3	124.2	124.2	124.2	124.2	124.2	124.0	123.6	123.1	122.7	122.2
110°	140.9	140.9	140.9	140.9	140.9	140.9	140.6	140.0	139.4	138.8	138.2



TEST NUMBER: P331466

CATALOG NUMBER: S122DIW-S290D435U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	157.7	157.9	158.0	158.1	158.2	158.3	158.0	157.4	156.8	156.2	155.6
115°	182.9	183.0	183.2	183.4	183.6	183.8	183.6	183.0	182.4	181.8	181.2
117.5°	207.6	207.9	208.4	209.0	209.6	210.1	210.0	209.2	208.4	207.6	206.8
120°	223.8	223.8	224.6	225.4	226.2	227.0	227.0	226.2	225.4	224.6	223.8
122.5°	241.0	241.2	241.8	242.3	242.9	243.5	243.3	242.3	241.3	240.4	239.4
125°	266.1	266.4	266.7	267.0	267.3	267.6	267.3	266.4	265.5	264.6	263.7
127.5°	290.5	290.9	291.2	291.6	292.0	292.3	291.9	290.8	289.6	288.5	287.3
130°	307.0	307.2	307.4	307.6	307.8	308.0	307.4	306.1	304.8	303.5	302.2
132.5°	323.4	323.8	323.8	323.8	323.7	323.7	323.1	322.1	321.0	319.9	318.9
135°	346.9	347.0	346.8	346.6	346.4	346.2	345.6	344.5	343.4	342.3	341.2
137.5°	369.8	369.9	369.6	369.4	369.1	368.8	368.2	367.3	366.4	365.5	364.6
140°	385.1	385.1	384.6	384.1	383.6	383.1	382.4	381.5	380.6	379.7	378.8
142.5°	399.0	398.9	398.5	398.2	397.8	397.5	396.9	396.0	395.1	394.2	393.3
145°	420.1	420.0	419.4	418.8	418.2	417.6	416.9	416.2	415.5	414.8	414.1
147.5°	438.5	438.3	437.9	437.5	437.1	436.7	436.1	435.2	434.4	433.5	432.7
150°	450.2	449.9	449.5	449.1	448.7	448.3	447.8	447.2	446.6	446.0	445.4
152.5°	461.9	461.5	461.0	460.5	460.0	459.6	459.0	458.4	457.8	457.2	456.6
155°	476.7	476.2	475.9	475.6	475.3	475.0	474.7	474.4	474.0	473.7	473.4
157.5°	490.3	489.6	489.4	489.2	489.0	488.8	488.7	488.5	488.3	488.1	487.9
160°	498.5	497.9	497.8	497.7	497.6	497.5	497.4	497.2	497.0	496.8	496.6
162.5°	505.8	505.2	505.1	505.0	504.9	504.8	504.7	504.6	504.6	504.6	504.5
165°	515.4	514.7	514.7	514.7	514.7	514.7	514.7	514.8	514.9	515.0	515.1
167.5°	523.3	522.6	522.6	522.6	522.6	522.6	522.8	523.1	523.4	523.7	524.0
170°	527.6	526.9	527.0	527.1	527.2	527.3	527.5	527.8	528.1	528.4	528.7
172.5°	530.9	530.2	530.3	530.4	530.5	530.6	530.8	531.1	531.4	531.7	532.0
175°	534.4	533.7	533.9	534.1	534.3	534.5	534.8	535.1	535.4	535.7	536.0
177.5°	536.3	535.8	535.9	536.1	536.3	536.4	536.6	536.9	537.1	537.4	537.6
180°	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9



TEST NUMBER: P331466

CATALOG NUMBER: S122DIW-S290D435U835-4F0-1E-UDD-A1

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°	4.9	5.8	6.1	6.9	6.9	7.3	7.7	8.0	8.3	8.0	7.8
90°	1.7	2.9	4.1	5.3	7.0	9.2	11.4	13.6	15.9	15.7	15.5
92.5°	9.0	9.8	10.7	11.6	12.3	12.8	13.4	13.9	14.4	14.4	14.5
95°	24.6	25.6	26.6	27.6	28.2	28.4	28.6	28.8	29.0	29.0	29.0
97.5°	43.9	44.8	45.7	46.6	47.2	47.6	48.0	48.4	48.7	48.7	48.7
100°	58.3	59.1	60.0	60.8	61.3	61.6	61.9	62.2	62.5	62.5	62.5
102.5°	73.4	74.0	74.7	75.3	75.9	76.2	76.6	77.0	77.4	77.5	77.5
105°	97.7	98.0	98.3	98.6	98.9	99.1	99.3	99.5	99.7	99.9	100.1
107.5°	122.7	123.1	123.6	124.0	124.2	124.2	124.2	124.2	124.2	124.3	124.4
110°	138.8	139.4	140.0	140.6	140.9	140.9	140.9	140.9	140.9	140.9	140.9



TEST NUMBER: P331466

CATALOG NUMBER: S122DIW-S290D435U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	156.2	156.8	157.4	158.0	158.3	158.2	158.1	158.0	157.9	157.7	157.5
115°	181.8	182.4	183.0	183.6	183.8	183.6	183.4	183.2	183.0	182.9	182.8
117.5°	207.6	208.4	209.2	210.0	210.1	209.6	209.0	208.4	207.9	207.6	207.4
120°	224.6	225.4	226.2	227.0	227.0	226.2	225.4	224.6	223.8	223.8	223.8
122.5°	240.4	241.3	242.3	243.3	243.5	242.9	242.3	241.8	241.2	241.0	240.7
125°	264.6	265.5	266.4	267.3	267.6	267.3	267.0	266.7	266.4	266.1	265.8
127.5°	288.5	289.6	290.8	291.9	292.3	292.0	291.6	291.2	290.9	290.5	290.1
130°	303.5	304.8	306.1	307.4	308.0	307.8	307.6	307.4	307.2	307.0	306.8
132.5°	319.9	321.0	322.1	323.1	323.7	323.7	323.8	323.8	323.8	323.4	323.0
135°	342.3	343.4	344.5	345.6	346.2	346.4	346.6	346.8	347.0	346.9	346.8
137.5°	365.5	366.4	367.3	368.2	368.8	369.1	369.4	369.6	369.9	369.8	369.7
140°	379.7	380.6	381.5	382.4	383.1	383.6	384.1	384.6	385.1	385.1	385.1
142.5°	394.2	395.1	396.0	396.9	397.5	397.8	398.2	398.5	398.9	399.0	399.0
145°	414.8	415.5	416.2	416.9	417.6	418.2	418.8	419.4	420.0	420.1	420.2
147.5°	433.5	434.4	435.2	436.1	436.7	437.1	437.5	437.9	438.3	438.5	438.7
150°	446.0	446.6	447.2	447.8	448.3	448.7	449.1	449.5	449.9	450.2	450.5
152.5°	457.2	457.8	458.4	459.0	459.6	460.0	460.5	461.0	461.5	461.9	462.2
155°	473.7	474.0	474.4	474.7	475.0	475.3	475.6	475.9	476.2	476.7	477.2
157.5°	488.1	488.3	488.5	488.7	488.8	489.0	489.2	489.4	489.6	490.3	490.9
160°	496.8	497.0	497.2	497.4	497.5	497.6	497.7	497.8	497.9	498.5	499.1
162.5°	504.6	504.6	504.6	504.7	504.8	504.9	505.0	505.1	505.2	505.8	506.5
165°	515.0	514.9	514.8	514.7	514.7	514.7	514.7	514.7	514.7	515.4	516.1
167.5°	523.7	523.4	523.1	522.8	522.6	522.6	522.6	522.6	522.6	523.3	524.0
170°	528.4	528.1	527.8	527.5	527.3	527.2	527.1	527.0	526.9	527.6	528.3
172.5°	531.7	531.4	531.1	530.8	530.6	530.5	530.4	530.3	530.2	530.9	531.6
175°	535.7	535.4	535.1	534.8	534.5	534.3	534.1	533.9	533.7	534.4	535.1
177.5°	537.4	537.1	536.9	536.6	536.4	536.3	536.1	535.9	535.8	536.3	536.8
180°	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9



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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°	8.0	7.9	7.7	7.7	7.9	7.8	7.8
90°	15.3	15.1	15.0	15.1	15.2	15.3	15.4
92.5°	14.5	14.6	14.6	14.6	14.6	14.7	14.7
95°	29.0	29.0	28.9	28.7	28.5	28.3	28.1
97.5°	48.7	48.7	48.7	48.7	48.7	48.7	48.7
100°	62.5	62.5	62.5	62.4	62.3	62.2	62.1
102.5°	77.6	77.7	77.7	77.6	77.5	77.4	77.3
105°	100.3	100.5	100.6	100.6	100.6	100.6	100.6
107.5°	124.5	124.6	124.4	123.9	123.4	123.0	122.5
110°	140.9	140.9	140.7	140.4	140.1	139.8	139.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	157.2	157.0	156.7	156.5	156.3	156.1	155.9
115°	182.7	182.6	182.4	182.1	181.8	181.5	181.2
117.5°	207.1	206.9	206.6	206.3	206.0	205.7	205.4
120°	223.8	223.8	223.7	223.4	223.1	222.8	222.5
122.5°	240.5	240.2	240.0	239.8	239.6	239.3	239.1
125°	265.5	265.2	265.0	264.9	264.8	264.7	264.6
127.5°	289.8	289.4	289.1	288.7	288.4	288.1	287.8
130°	306.6	306.4	306.1	305.7	305.3	304.9	304.5
132.5°	322.5	322.1	321.7	321.4	321.0	320.7	320.4
135°	346.7	346.6	346.4	346.1	345.8	345.5	345.2
137.5°	369.6	369.6	369.3	368.9	368.5	368.1	367.7
140°	385.1	385.1	384.9	384.5	384.1	383.7	383.3
142.5°	399.1	399.2	399.0	398.6	398.2	397.8	397.4
145°	420.3	420.4	420.2	419.8	419.4	419.0	418.6
147.5°	439.0	439.2	439.1	438.7	438.3	437.9	437.6
150°	450.8	451.1	451.1	450.8	450.5	450.2	449.9
152.5°	462.6	463.0	463.0	462.6	462.2	461.9	461.5
155°	477.7	478.2	478.3	478.0	477.7	477.4	477.1
157.5°	491.6	492.3	492.4	491.9	491.4	491.0	490.5
160°	499.7	500.3	500.4	500.0	499.6	499.2	498.8
162.5°	507.2	507.9	508.0	507.5	507.0	506.5	506.1
165°	516.8	517.5	517.6	517.1	516.6	516.1	515.6
167.5°	524.7	525.4	525.5	524.9	524.4	523.9	523.4
170°	529.0	529.7	529.8	529.2	528.6	528.0	527.4
172.5°	532.3	533.0	533.0	532.4	531.8	531.2	530.6
175°	535.8	536.5	536.6	536.0	535.4	534.8	534.2
177.5°	537.2	537.7	537.7	537.2	536.8	536.3	535.8
180°	536.9	536.9	536.9	536.9	536.9	536.9	536.9

(END OF REPORT)