

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: P331465

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331465  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
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-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 435 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3036.5 lumens  
Efficiency: N/A  
Efficacy: 132.0 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

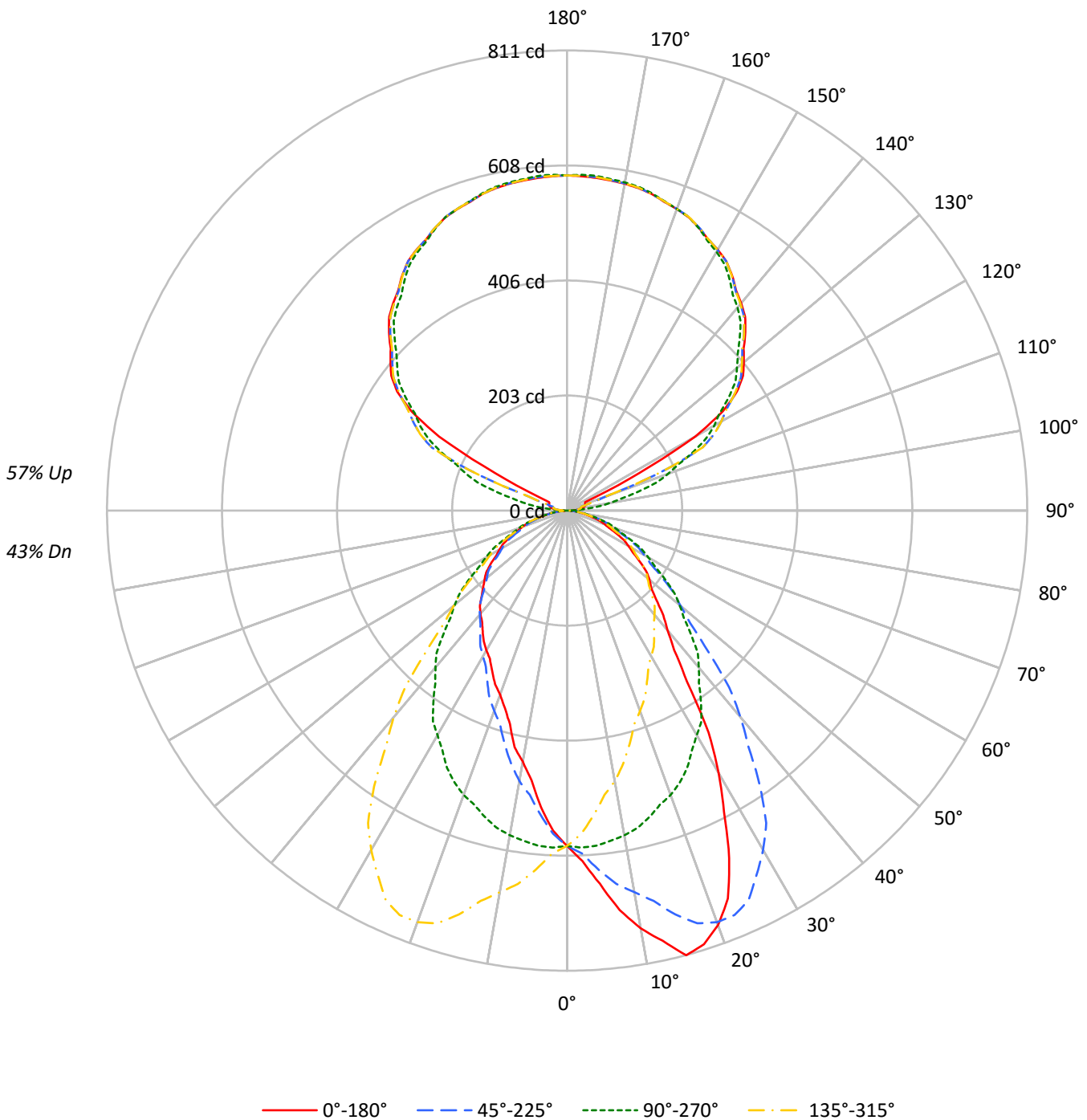
Input Watts (W): 23  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	97	92	89	85	88	85	82	79	70	68	66	57	55	54	45	44	43	37
2	88	81	75	70	81	75	70	65	62	58	55	50	48	46	40	38	37	32
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	33	32	27
4	74	64	56	50	68	59	52	47	49	44	40	40	37	34	32	30	28	24
5	68	57	49	43	62	53	46	41	44	39	35	36	33	30	29	26	24	21
6	63	51	43	38	57	47	40	35	40	35	31	33	29	26	26	24	22	19
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	21	19	17
8	54	42	35	29	49	39	32	28	33	28	24	28	24	21	22	20	17	15
9	50	38	31	26	46	36	29	25	30	25	22	25	22	19	21	18	16	14
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	19	17	14	13

**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	1.9
10°-20°	163.7	5.4
20°-30°	237.5	7.8
30°-40°	250.6	8.3
40°-50°	221.9	7.3
50°-60°	177.1	5.8
60°-70°	120.4	4.0
70°-80°	61.7	2.0
80°-90°	16.3	0.5
90°-100°	19.7	0.6
100°-110°	72.3	2.4
110°-120°	193.1	6.4
120°-130°	318.8	10.5
130°-140°	339.1	11.2
140°-150°	315.2	10.4
150°-160°	253.4	8.3
160°-170°	163.3	5.4
170°-180°	56.2	1.9
0°-30°	457.5	15.1
0°-40°	708.1	23.3
0°-60°	1107.1	36.5
0°-90°	1305.5	43.0
90°-120°	285.1	9.4
90°-150°	1258.2	41.4
90°-180°	1731.0	57.0
0°-180°	3036.5	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	6
95°	18	28	18	28	18	17
105°	32	130	32	130	32	34
115°	35	246	35	246	35	88
125°	365	348	365	348	365	316
135°	444	430	444	430	444	342
145°	506	499	506	499	506	317
155°	550	549	550	549	550	254
165°	577	579	577	579	577	163
175°	589	592	589	592	589	56
180°	591	591	591	591	591	



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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°	7.0	7.0	7.1	6.9	6.9	7.0	6.9	6.6	6.7	6.8	6.8
90°	11.5	11.4	11.2	11.0	10.8	10.4	10.0	9.5	9.0	8.5	7.8
92.5°	11.5	11.4	11.3	11.2	11.1	10.9	10.7	10.4	10.2	9.9	9.5
95°	18.4	18.5	18.6	18.7	18.8	18.6	18.1	17.6	17.1	16.7	16.0
97.5°	24.5	24.4	24.3	24.2	24.1	23.8	23.5	23.1	22.7	22.3	20.8
100°	28.6	28.4	28.3	28.1	27.9	27.4	26.6	25.9	25.1	24.4	22.7
102.5°	30.7	30.4	30.2	29.9	29.6	29.0	28.0	27.0	26.0	25.0	38.6
105°	32.5	32.1	31.7	31.3	31.0	30.3	29.2	28.2	27.1	26.1	52.0
107.5°	33.4	33.0	32.7	32.3	31.9	32.2	33.3	34.4	35.4	36.5	67.6
110°	33.8	33.4	33.0	32.6	32.2	36.8	46.3	55.8	65.3	74.8	102.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	34.1	33.8	33.5	33.2	32.9	50.1	84.7	119.4	154.0	188.7	195.4
115°	35.0	41.9	48.7	55.6	62.4	87.8	131.8	175.8	219.7	263.7	261.3
117.5°	143.1	165.6	188.0	210.5	233.0	249.5	260.2	270.8	281.5	292.1	290.5
120°	260.7	273.5	286.4	299.2	312.0	317.9	316.7	315.6	314.4	313.3	311.6
122.5°	325.3	327.8	330.3	332.8	335.3	336.2	335.5	334.8	334.2	333.5	331.6
125°	365.4	365.2	364.9	364.6	364.3	363.8	363.2	362.5	361.8	361.2	359.4
127.5°	390.7	390.7	390.6	390.6	390.5	390.0	389.0	388.1	387.1	386.1	384.8
130°	406.5	406.6	406.7	406.8	406.9	406.4	405.3	404.3	403.2	402.2	401.2
132.5°	421.9	422.0	422.0	422.1	422.2	421.8	420.9	420.1	419.2	418.3	417.2
135°	444.1	444.3	444.5	444.7	444.8	444.5	443.5	442.6	441.6	440.7	439.8
137.5°	464.3	464.7	465.0	465.3	465.6	465.3	464.4	463.5	462.5	461.6	460.6
140°	477.0	477.5	477.9	478.4	478.9	478.7	477.9	477.0	476.1	475.3	474.2
142.5°	489.3	489.8	490.3	490.7	491.2	491.1	490.3	489.5	488.7	487.9	486.7
145°	506.5	507.0	507.4	507.9	508.4	508.3	507.6	507.0	506.3	505.6	504.0
147.5°	521.6	522.0	522.4	522.8	523.2	523.2	522.7	522.2	521.7	521.2	519.6
150°	530.9	531.3	531.8	532.3	532.8	532.7	532.1	531.6	531.0	530.4	528.9
152.5°	538.7	539.3	540.0	540.6	541.2	541.3	540.7	540.1	539.5	539.0	537.5
155°	549.7	550.4	551.2	551.9	552.7	552.8	552.2	551.7	551.1	550.5	549.4
157.5°	559.7	560.4	561.1	561.9	562.6	562.7	562.0	561.4	560.7	560.1	559.3
160°	565.5	566.1	566.8	567.5	568.1	568.2	567.6	567.0	566.5	565.9	565.3
162.5°	570.3	571.1	571.9	572.7	573.5	573.6	573.0	572.3	571.7	571.0	570.5
165°	577.4	578.1	578.8	579.4	580.1	580.1	579.4	578.8	578.1	577.4	577.2
167.5°	582.0	582.8	583.7	584.5	585.4	585.5	584.8	584.2	583.5	582.8	582.6
170°	584.7	585.6	586.4	587.3	588.1	588.2	587.6	586.9	586.2	585.6	585.4
172.5°	586.8	587.6	588.5	589.3	590.2	590.3	589.6	588.9	588.3	587.6	587.4
175°	588.6	589.5	590.5	591.4	592.4	592.5	591.8	591.2	590.5	589.8	589.6
177.5°	589.7	590.3	591.0	591.7	592.4	592.5	591.9	591.4	590.9	590.3	590.3
180°	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7



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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°	6.9	6.7	6.6	6.7	6.0	5.8	4.8	4.1	4.1	4.1	4.0
90°	7.0	6.3	5.5	4.6	3.6	2.5	1.5	0.4	1.5	2.5	3.6
92.5°	9.2	8.8	8.4	8.3	8.3	8.4	8.5	8.6	8.5	8.4	8.3
95°	15.3	14.7	14.0	15.2	18.4	21.5	24.6	27.8	24.6	21.5	18.4
97.5°	19.2	17.7	16.2	19.8	28.6	37.5	46.3	55.1	46.3	37.5	28.6
100°	21.1	19.5	17.9	23.6	36.6	49.6	62.6	75.7	62.6	49.6	36.6
102.5°	52.1	65.6	79.1	87.2	90.0	92.7	95.5	98.2	95.5	92.7	90.0
105°	77.9	103.9	129.8	141.3	138.5	135.6	132.8	129.9	132.8	135.6	138.5
107.5°	98.7	129.8	160.9	175.3	173.0	170.7	168.4	166.1	168.4	170.7	173.0
110°	129.7	157.1	184.6	197.3	195.3	193.3	191.3	189.3	191.3	193.3	195.3





TEST NUMBER: P331465

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

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	202.2	209.0	215.8	218.3	216.5	214.8	213.0	211.2	213.0	214.8	216.5
115°	259.0	256.6	254.2	252.2	250.6	249.0	247.4	245.8	247.4	249.0	250.6
117.5°	288.8	287.2	285.6	283.8	282.0	280.2	278.4	276.6	278.4	280.2	282.0
120°	309.9	308.2	306.5	304.9	303.5	302.0	300.6	299.2	300.6	302.0	303.5
122.5°	329.7	327.9	326.0	324.3	322.8	321.3	319.8	318.3	319.8	321.3	322.8
125°	357.6	355.8	353.9	352.4	351.2	350.0	348.7	347.5	348.7	350.0	351.2
127.5°	383.4	382.1	380.7	379.4	378.0	376.6	375.3	373.9	375.3	376.6	378.0
130°	400.1	399.1	398.0	396.7	395.2	393.7	392.2	390.7	392.2	393.7	395.2
132.5°	416.2	415.1	414.1	412.9	411.6	410.3	409.0	407.8	409.0	410.3	411.6
135°	439.0	438.1	437.2	436.1	434.5	433.0	431.5	430.0	431.5	433.0	434.5
137.5°	459.7	458.7	457.7	456.7	455.7	454.6	453.5	452.5	453.5	454.6	455.7
140°	473.2	472.2	471.1	470.2	469.4	468.7	467.9	467.2	467.9	468.7	469.4
142.5°	485.5	484.3	483.2	482.2	481.5	480.8	480.2	479.5	480.2	480.8	481.5
145°	502.4	500.8	499.2	498.4	498.5	498.6	498.7	498.8	498.7	498.6	498.5
147.5°	518.0	516.4	514.8	514.2	514.6	514.9	515.3	515.6	515.3	514.9	514.6
150°	527.4	525.9	524.3	523.9	524.6	525.2	525.9	526.6	525.9	525.2	524.6
152.5°	536.1	534.6	533.2	532.8	533.6	534.3	535.1	535.8	535.1	534.3	533.6
155°	548.2	547.1	546.0	545.8	546.7	547.5	548.4	549.2	548.4	547.5	546.7
157.5°	558.5	557.7	556.9	556.9	557.6	558.3	559.0	559.7	559.0	558.3	557.6
160°	564.8	564.2	563.6	563.6	564.2	564.8	565.3	565.9	565.3	564.8	564.2
162.5°	570.0	569.5	569.1	569.1	569.7	570.2	570.8	571.4	570.8	570.2	569.7
165°	576.9	576.6	576.3	576.4	577.0	577.6	578.2	578.7	578.2	577.6	577.0
167.5°	582.3	582.0	581.8	581.9	582.5	583.1	583.6	584.2	583.6	583.1	582.5
170°	585.2	585.0	584.8	585.0	585.6	586.1	586.7	587.3	586.7	586.1	585.6
172.5°	587.2	587.0	586.9	587.0	587.6	588.2	588.8	589.3	588.8	588.2	587.6
175°	589.5	589.3	589.1	589.3	590.0	590.6	591.3	592.0	591.3	590.6	590.0
177.5°	590.2	590.1	590.0	590.3	590.8	591.3	591.9	592.4	591.9	591.3	590.8
180°	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7



TEST NUMBER: P331465

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

**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°	4.0	4.0	4.0	4.1	4.1	4.1	4.0	4.1	4.2	3.9	4.0
90°	4.6	5.5	6.3	7.0	7.8	8.5	9.0	9.5	10.0	10.4	10.8
92.5°	8.3	8.4	8.8	9.2	9.5	9.9	10.2	10.4	10.7	10.9	11.1
95°	15.2	14.0	14.7	15.3	16.0	16.7	17.1	17.6	18.1	18.6	18.8
97.5°	19.8	16.2	17.7	19.2	20.8	22.3	22.7	23.1	23.5	23.8	24.1
100°	23.6	17.9	19.5	21.1	22.7	24.4	25.1	25.9	26.6	27.4	27.9
102.5°	87.2	79.1	65.6	52.1	38.6	25.0	26.0	27.0	28.0	29.0	29.6
105°	141.3	129.8	103.9	77.9	52.0	26.1	27.1	28.2	29.2	30.3	31.0
107.5°	175.3	160.9	129.8	98.7	67.6	36.5	35.4	34.4	33.3	32.2	31.9
110°	197.3	184.6	157.1	129.7	102.2	74.8	65.3	55.8	46.3	36.8	32.2



TEST NUMBER: P331465

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

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	218.3	215.8	209.0	202.2	195.4	188.7	154.0	119.4	84.7	50.1	32.9
115°	252.2	254.2	256.6	259.0	261.3	263.7	219.7	175.8	131.8	87.8	62.4
117.5°	283.8	285.6	287.2	288.8	290.5	292.1	281.5	270.8	260.2	249.5	233.0
120°	304.9	306.5	308.2	309.9	311.6	313.3	314.4	315.6	316.7	317.9	312.0
122.5°	324.3	326.0	327.9	329.7	331.6	333.5	334.2	334.8	335.5	336.2	335.3
125°	352.4	353.9	355.8	357.6	359.4	361.2	361.8	362.5	363.2	363.8	364.3
127.5°	379.4	380.7	382.1	383.4	384.8	386.1	387.1	388.1	389.0	390.0	390.5
130°	396.7	398.0	399.1	400.1	401.2	402.2	403.2	404.3	405.3	406.4	406.9
132.5°	412.9	414.1	415.1	416.2	417.2	418.3	419.2	420.1	420.9	421.8	422.2
135°	436.1	437.2	438.1	439.0	439.8	440.7	441.6	442.6	443.5	444.5	444.8
137.5°	456.7	457.7	458.7	459.7	460.6	461.6	462.5	463.5	464.4	465.3	465.6
140°	470.2	471.1	472.2	473.2	474.2	475.3	476.1	477.0	477.9	478.7	478.9
142.5°	482.2	483.2	484.3	485.5	486.7	487.9	488.7	489.5	490.3	491.1	491.2
145°	498.4	499.2	500.8	502.4	504.0	505.6	506.3	507.0	507.6	508.3	508.4
147.5°	514.2	514.8	516.4	518.0	519.6	521.2	521.7	522.2	522.7	523.2	523.2
150°	523.9	524.3	525.9	527.4	528.9	530.4	531.0	531.6	532.1	532.7	532.8
152.5°	532.8	533.2	534.6	536.1	537.5	539.0	539.5	540.1	540.7	541.3	541.2
155°	545.8	546.0	547.1	548.2	549.4	550.5	551.1	551.7	552.2	552.8	552.7
157.5°	556.9	556.9	557.7	558.5	559.3	560.1	560.7	561.4	562.0	562.7	562.6
160°	563.6	563.6	564.2	564.8	565.3	565.9	566.5	567.0	567.6	568.2	568.1
162.5°	569.1	569.1	569.5	570.0	570.5	571.0	571.7	572.3	573.0	573.6	573.5
165°	576.4	576.3	576.6	576.9	577.2	577.4	578.1	578.8	579.4	580.1	580.1
167.5°	581.9	581.8	582.0	582.3	582.6	582.8	583.5	584.2	584.8	585.5	585.4
170°	585.0	584.8	585.0	585.2	585.4	585.6	586.2	586.9	587.6	588.2	588.1
172.5°	587.0	586.9	587.0	587.2	587.4	587.6	588.3	588.9	589.6	590.3	590.2
175°	589.3	589.1	589.3	589.5	589.6	589.8	590.5	591.2	591.8	592.5	592.4
177.5°	590.3	590.0	590.1	590.2	590.3	590.3	590.9	591.4	591.9	592.5	592.4
180°	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7



TEST NUMBER: P331465

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

**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°	4.0	3.9	3.9	3.8	3.9	3.9	4.0	4.0	3.9	4.2	4.1
90°	11.0	11.2	11.4	11.5	11.4	11.2	11.0	10.8	10.4	10.0	9.5
92.5°	11.2	11.3	11.4	11.5	11.4	11.3	11.2	11.1	10.9	10.7	10.4
95°	18.7	18.6	18.5	18.4	18.5	18.6	18.7	18.8	18.6	18.1	17.6
97.5°	24.2	24.3	24.4	24.5	24.4	24.3	24.2	24.1	23.8	23.5	23.1
100°	28.1	28.3	28.4	28.6	28.4	28.3	28.1	27.9	27.4	26.6	25.9
102.5°	29.9	30.2	30.4	30.7	30.4	30.2	29.9	29.6	29.0	28.0	27.0
105°	31.3	31.7	32.1	32.5	32.1	31.7	31.3	31.0	30.3	29.2	28.2
107.5°	32.3	32.7	33.0	33.4	33.0	32.7	32.3	31.9	32.2	33.3	34.4
110°	32.6	33.0	33.4	33.8	33.4	33.0	32.6	32.2	36.8	46.3	55.8



TEST NUMBER: P331465

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

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	33.2	33.5	33.8	34.1	33.8	33.5	33.2	32.9	50.1	84.7	119.4
115°	55.6	48.7	41.9	35.0	41.9	48.7	55.6	62.4	87.8	131.8	175.8
117.5°	210.5	188.0	165.6	143.1	165.6	188.0	210.5	233.0	249.5	260.2	270.8
120°	299.2	286.4	273.5	260.7	273.5	286.4	299.2	312.0	317.9	316.7	315.6
122.5°	332.8	330.3	327.8	325.3	327.8	330.3	332.8	335.3	336.2	335.5	334.8
125°	364.6	364.9	365.2	365.4	365.2	364.9	364.6	364.3	363.8	363.2	362.5
127.5°	390.6	390.6	390.7	390.7	390.7	390.6	390.6	390.5	390.0	389.0	388.1
130°	406.8	406.7	406.6	406.5	406.6	406.7	406.8	406.9	406.4	405.3	404.3
132.5°	422.1	422.0	422.0	421.9	422.0	422.0	422.1	422.2	421.8	420.9	420.1
135°	444.7	444.5	444.3	444.1	444.3	444.5	444.7	444.8	444.5	443.5	442.6
137.5°	465.3	465.0	464.7	464.3	464.7	465.0	465.3	465.6	465.3	464.4	463.5
140°	478.4	477.9	477.5	477.0	477.5	477.9	478.4	478.9	478.7	477.9	477.0
142.5°	490.7	490.3	489.8	489.3	489.8	490.3	490.7	491.2	491.1	490.3	489.5
145°	507.9	507.4	507.0	506.5	507.0	507.4	507.9	508.4	508.3	507.6	507.0
147.5°	522.8	522.4	522.0	521.6	522.0	522.4	522.8	523.2	523.2	522.7	522.2
150°	532.3	531.8	531.3	530.9	531.3	531.8	532.3	532.8	532.7	532.1	531.6
152.5°	540.6	540.0	539.3	538.7	539.3	540.0	540.6	541.2	541.3	540.7	540.1
155°	551.9	551.2	550.4	549.7	550.4	551.2	551.9	552.7	552.8	552.2	551.7
157.5°	561.9	561.1	560.4	559.7	560.4	561.1	561.9	562.6	562.7	562.0	561.4
160°	567.5	566.8	566.1	565.5	566.1	566.8	567.5	568.1	568.2	567.6	567.0
162.5°	572.7	571.9	571.1	570.3	571.1	571.9	572.7	573.5	573.6	573.0	572.3
165°	579.4	578.8	578.1	577.4	578.1	578.8	579.4	580.1	580.1	579.4	578.8
167.5°	584.5	583.7	582.8	582.0	582.8	583.7	584.5	585.4	585.5	584.8	584.2
170°	587.3	586.4	585.6	584.7	585.6	586.4	587.3	588.1	588.2	587.6	586.9
172.5°	589.3	588.5	587.6	586.8	587.6	588.5	589.3	590.2	590.3	589.6	588.9
175°	591.4	590.5	589.5	588.6	589.5	590.5	591.4	592.4	592.5	591.8	591.2
177.5°	591.7	591.0	590.3	589.7	590.3	591.0	591.7	592.4	592.5	591.9	591.4
180°	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7



TEST NUMBER: P331465

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

**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°	4.0	4.1	4.1	4.1	4.0	4.0	4.0	4.0	4.1	4.1	4.1
90°	9.0	8.5	7.8	7.0	6.3	5.5	4.6	3.6	2.5	1.5	0.4
92.5°	10.2	9.9	9.5	9.2	8.8	8.4	8.3	8.3	8.4	8.5	8.6
95°	17.1	16.7	16.0	15.3	14.7	14.0	15.2	18.4	21.5	24.6	27.8
97.5°	22.7	22.3	20.8	19.2	17.7	16.2	19.8	28.6	37.5	46.3	55.1
100°	25.1	24.4	22.7	21.1	19.5	17.9	23.6	36.6	49.6	62.6	75.7
102.5°	26.0	25.0	38.6	52.1	65.6	79.1	87.2	90.0	92.7	95.5	98.2
105°	27.1	26.1	52.0	77.9	103.9	129.8	141.3	138.5	135.6	132.8	129.9
107.5°	35.4	36.5	67.6	98.7	129.8	160.9	175.3	173.0	170.7	168.4	166.1
110°	65.3	74.8	102.2	129.7	157.1	184.6	197.3	195.3	193.3	191.3	189.3



TEST NUMBER: P331465

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

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	154.0	188.7	195.4	202.2	209.0	215.8	218.3	216.5	214.8	213.0	211.2
115°	219.7	263.7	261.3	259.0	256.6	254.2	252.2	250.6	249.0	247.4	245.8
117.5°	281.5	292.1	290.5	288.8	287.2	285.6	283.8	282.0	280.2	278.4	276.6
120°	314.4	313.3	311.6	309.9	308.2	306.5	304.9	303.5	302.0	300.6	299.2
122.5°	334.2	333.5	331.6	329.7	327.9	326.0	324.3	322.8	321.3	319.8	318.3
125°	361.8	361.2	359.4	357.6	355.8	353.9	352.4	351.2	350.0	348.7	347.5
127.5°	387.1	386.1	384.8	383.4	382.1	380.7	379.4	378.0	376.6	375.3	373.9
130°	403.2	402.2	401.2	400.1	399.1	398.0	396.7	395.2	393.7	392.2	390.7
132.5°	419.2	418.3	417.2	416.2	415.1	414.1	412.9	411.6	410.3	409.0	407.8
135°	441.6	440.7	439.8	439.0	438.1	437.2	436.1	434.5	433.0	431.5	430.0
137.5°	462.5	461.6	460.6	459.7	458.7	457.7	456.7	455.7	454.6	453.5	452.5
140°	476.1	475.3	474.2	473.2	472.2	471.1	470.2	469.4	468.7	467.9	467.2
142.5°	488.7	487.9	486.7	485.5	484.3	483.2	482.2	481.5	480.8	480.2	479.5
145°	506.3	505.6	504.0	502.4	500.8	499.2	498.4	498.5	498.6	498.7	498.8
147.5°	521.7	521.2	519.6	518.0	516.4	514.8	514.2	514.6	514.9	515.3	515.6
150°	531.0	530.4	528.9	527.4	525.9	524.3	523.9	524.6	525.2	525.9	526.6
152.5°	539.5	539.0	537.5	536.1	534.6	533.2	532.8	533.6	534.3	535.1	535.8
155°	551.1	550.5	549.4	548.2	547.1	546.0	545.8	546.7	547.5	548.4	549.2
157.5°	560.7	560.1	559.3	558.5	557.7	556.9	556.9	557.6	558.3	559.0	559.7
160°	566.5	565.9	565.3	564.8	564.2	563.6	563.6	564.2	564.8	565.3	565.9
162.5°	571.7	571.0	570.5	570.0	569.5	569.1	569.1	569.7	570.2	570.8	571.4
165°	578.1	577.4	577.2	576.9	576.6	576.3	576.4	577.0	577.6	578.2	578.7
167.5°	583.5	582.8	582.6	582.3	582.0	581.8	581.9	582.5	583.1	583.6	584.2
170°	586.2	585.6	585.4	585.2	585.0	584.8	585.0	585.6	586.1	586.7	587.3
172.5°	588.3	587.6	587.4	587.2	587.0	586.9	587.0	587.6	588.2	588.8	589.3
175°	590.5	589.8	589.6	589.5	589.3	589.1	589.3	590.0	590.6	591.3	592.0
177.5°	590.9	590.3	590.3	590.2	590.1	590.0	590.3	590.8	591.3	591.9	592.4
180°	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7



TEST NUMBER: P331465

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

**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	6.6	6.7	6.9	6.8	6.8	6.7	6.6
90°	1.5	2.5	3.6	4.6	5.5	6.3	7.0	7.8	8.5	9.0	9.5
92.5°	8.5	8.4	8.3	8.3	8.4	8.8	9.2	9.5	9.9	10.2	10.4
95°	24.6	21.5	18.4	15.2	14.0	14.7	15.3	16.0	16.7	17.1	17.6
97.5°	46.3	37.5	28.6	19.8	16.2	17.7	19.2	20.8	22.3	22.7	23.1
100°	62.6	49.6	36.6	23.6	17.9	19.5	21.1	22.7	24.4	25.1	25.9
102.5°	95.5	92.7	90.0	87.2	79.1	65.6	52.1	38.6	25.0	26.0	27.0
105°	132.8	135.6	138.5	141.3	129.8	103.9	77.9	52.0	26.1	27.1	28.2
107.5°	168.4	170.7	173.0	175.3	160.9	129.8	98.7	67.6	36.5	35.4	34.4
110°	191.3	193.3	195.3	197.3	184.6	157.1	129.7	102.2	74.8	65.3	55.8





TEST NUMBER: P331465

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

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	213.0	214.8	216.5	218.3	215.8	209.0	202.2	195.4	188.7	154.0	119.4
115°	247.4	249.0	250.6	252.2	254.2	256.6	259.0	261.3	263.7	219.7	175.8
117.5°	278.4	280.2	282.0	283.8	285.6	287.2	288.8	290.5	292.1	281.5	270.8
120°	300.6	302.0	303.5	304.9	306.5	308.2	309.9	311.6	313.3	314.4	315.6
122.5°	319.8	321.3	322.8	324.3	326.0	327.9	329.7	331.6	333.5	334.2	334.8
125°	348.7	350.0	351.2	352.4	353.9	355.8	357.6	359.4	361.2	361.8	362.5
127.5°	375.3	376.6	378.0	379.4	380.7	382.1	383.4	384.8	386.1	387.1	388.1
130°	392.2	393.7	395.2	396.7	398.0	399.1	400.1	401.2	402.2	403.2	404.3
132.5°	409.0	410.3	411.6	412.9	414.1	415.1	416.2	417.2	418.3	419.2	420.1
135°	431.5	433.0	434.5	436.1	437.2	438.1	439.0	439.8	440.7	441.6	442.6
137.5°	453.5	454.6	455.7	456.7	457.7	458.7	459.7	460.6	461.6	462.5	463.5
140°	467.9	468.7	469.4	470.2	471.1	472.2	473.2	474.2	475.3	476.1	477.0
142.5°	480.2	480.8	481.5	482.2	483.2	484.3	485.5	486.7	487.9	488.7	489.5
145°	498.7	498.6	498.5	498.4	499.2	500.8	502.4	504.0	505.6	506.3	507.0
147.5°	515.3	514.9	514.6	514.2	514.8	516.4	518.0	519.6	521.2	521.7	522.2
150°	525.9	525.2	524.6	523.9	524.3	525.9	527.4	528.9	530.4	531.0	531.6
152.5°	535.1	534.3	533.6	532.8	533.2	534.6	536.1	537.5	539.0	539.5	540.1
155°	548.4	547.5	546.7	545.8	546.0	547.1	548.2	549.4	550.5	551.1	551.7
157.5°	559.0	558.3	557.6	556.9	556.9	557.7	558.5	559.3	560.1	560.7	561.4
160°	565.3	564.8	564.2	563.6	563.6	564.2	564.8	565.3	565.9	566.5	567.0
162.5°	570.8	570.2	569.7	569.1	569.1	569.5	570.0	570.5	571.0	571.7	572.3
165°	578.2	577.6	577.0	576.4	576.3	576.6	576.9	577.2	577.4	578.1	578.8
167.5°	583.6	583.1	582.5	581.9	581.8	582.0	582.3	582.6	582.8	583.5	584.2
170°	586.7	586.1	585.6	585.0	584.8	585.0	585.2	585.4	585.6	586.2	586.9
172.5°	588.8	588.2	587.6	587.0	586.9	587.0	587.2	587.4	587.6	588.3	588.9
175°	591.3	590.6	590.0	589.3	589.1	589.3	589.5	589.6	589.8	590.5	591.2
177.5°	591.9	591.3	590.8	590.3	590.0	590.1	590.2	590.3	590.3	590.9	591.4
180°	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7



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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°	6.9	7.0	6.9	6.9	7.1	7.0	7.0
90°	10.0	10.4	10.8	11.0	11.2	11.4	11.5
92.5°	10.7	10.9	11.1	11.2	11.3	11.4	11.5
95°	18.1	18.6	18.8	18.7	18.6	18.5	18.4
97.5°	23.5	23.8	24.1	24.2	24.3	24.4	24.5
100°	26.6	27.4	27.9	28.1	28.3	28.4	28.6
102.5°	28.0	29.0	29.6	29.9	30.2	30.4	30.7
105°	29.2	30.3	31.0	31.3	31.7	32.1	32.5
107.5°	33.3	32.2	31.9	32.3	32.7	33.0	33.4
110°	46.3	36.8	32.2	32.6	33.0	33.4	33.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	84.7	50.1	32.9	33.2	33.5	33.8	34.1
115°	131.8	87.8	62.4	55.6	48.7	41.9	35.0
117.5°	260.2	249.5	233.0	210.5	188.0	165.6	143.1
120°	316.7	317.9	312.0	299.2	286.4	273.5	260.7
122.5°	335.5	336.2	335.3	332.8	330.3	327.8	325.3
125°	363.2	363.8	364.3	364.6	364.9	365.2	365.4
127.5°	389.0	390.0	390.5	390.6	390.6	390.7	390.7
130°	405.3	406.4	406.9	406.8	406.7	406.6	406.5
132.5°	420.9	421.8	422.2	422.1	422.0	422.0	421.9
135°	443.5	444.5	444.8	444.7	444.5	444.3	444.1
137.5°	464.4	465.3	465.6	465.3	465.0	464.7	464.3
140°	477.9	478.7	478.9	478.4	477.9	477.5	477.0
142.5°	490.3	491.1	491.2	490.7	490.3	489.8	489.3
145°	507.6	508.3	508.4	507.9	507.4	507.0	506.5
147.5°	522.7	523.2	523.2	522.8	522.4	522.0	521.6
150°	532.1	532.7	532.8	532.3	531.8	531.3	530.9
152.5°	540.7	541.3	541.2	540.6	540.0	539.3	538.7
155°	552.2	552.8	552.7	551.9	551.2	550.4	549.7
157.5°	562.0	562.7	562.6	561.9	561.1	560.4	559.7
160°	567.6	568.2	568.1	567.5	566.8	566.1	565.5
162.5°	573.0	573.6	573.5	572.7	571.9	571.1	570.3
165°	579.4	580.1	580.1	579.4	578.8	578.1	577.4
167.5°	584.8	585.5	585.4	584.5	583.7	582.8	582.0
170°	587.6	588.2	588.1	587.3	586.4	585.6	584.7
172.5°	589.6	590.3	590.2	589.3	588.5	587.6	586.8
175°	591.8	592.5	592.4	591.4	590.5	589.5	588.6
177.5°	591.9	592.5	592.4	591.7	591.0	590.3	589.7
180°	590.7	590.7	590.7	590.7	590.7	590.7	590.7

(END OF REPORT)