

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: P331472-940

Luminaire Tested: **S122DIW-S290D710U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331472-940  
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-S290D710U940-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 710 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3358.5 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

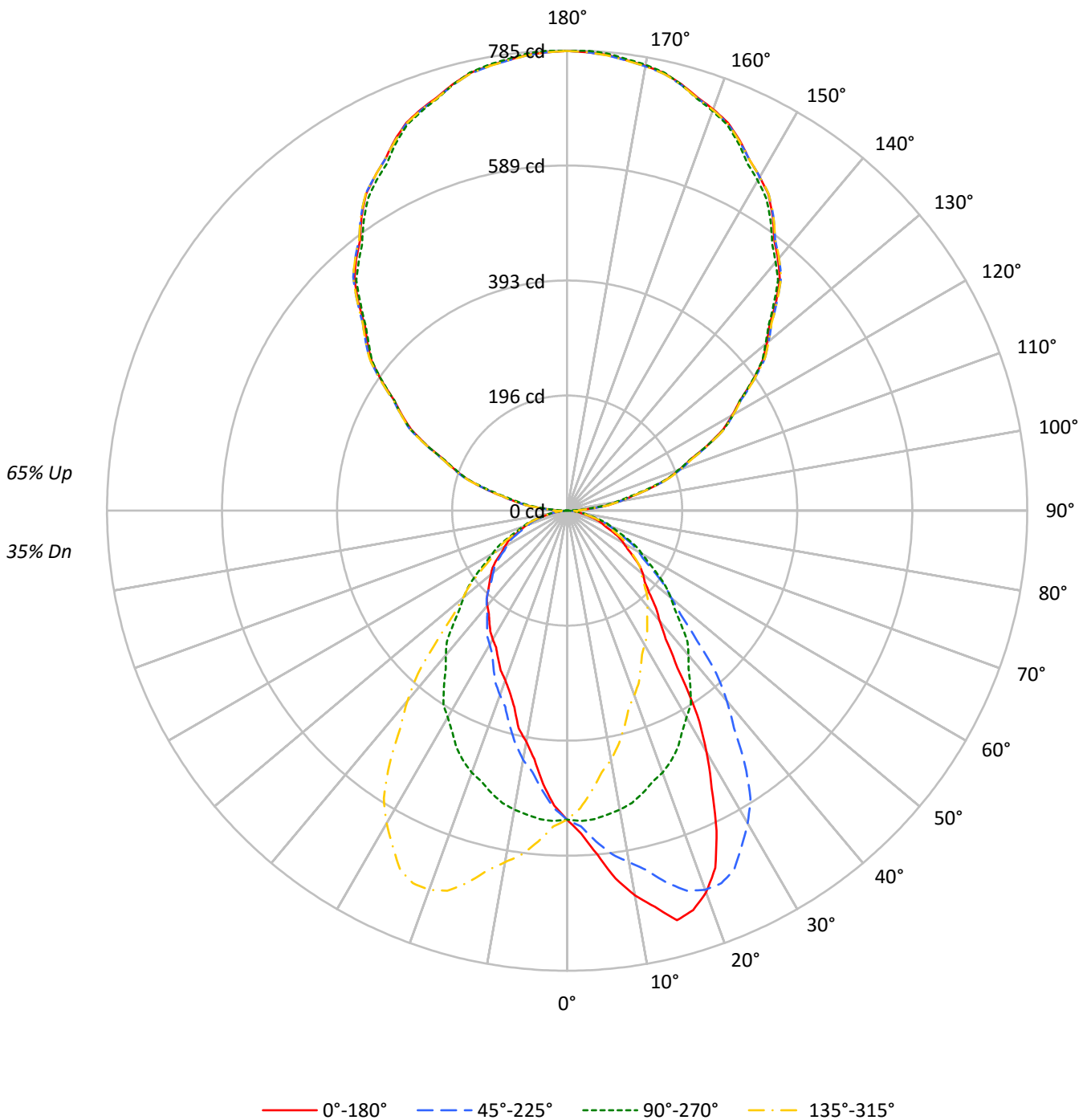
Input Watts (W): 30.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	35
1	95	91	87	84	85	82	79	76	66	64	62	51	50	49	38	37	36	30
2	86	79	74	69	78	72	67	63	58	55	52	45	43	41	34	32	31	26
3	79	70	63	58	71	64	58	53	52	47	44	40	38	35	30	28	27	22
4	72	62	55	49	65	57	50	45	46	41	38	36	33	30	27	25	23	19
5	67	55	48	42	60	51	44	39	41	36	33	33	29	26	24	22	20	17
6	61	50	42	36	55	45	39	34	37	32	28	30	26	23	22	20	18	15
7	57	45	37	32	51	41	34	30	34	29	25	27	23	21	20	18	16	13
8	53	41	33	28	48	37	31	26	31	26	22	25	21	18	19	16	15	12
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	17	15	13	11
10	46	34	27	23	41	31	25	21	26	21	18	21	17	15	16	14	12	10

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

	0°	90°	180°	270°
0°	8510	8510	8510	8510
5°	9540	8566	7590	8566
10°	10932	8496	6568	8496
15°	12094	8339	5804	8339
20°	11911	8172	5290	8172
25°	10739	7949	4965	7949
30°	8874	7594	4728	7594
35°	6467	7222	4559	7222
40°	5166	6785	4466	6785
45°	4514	6277	4338	6277
50°	4245	5785	4253	5785
55°	3910	5286	4138	5286
60°	3584	4753	3965	4753
65°	3266	4279	3790	4279
70°	2965	3814	3541	3814
75°	2633	3300	3132	3300
80°	2259	2724	2520	2724
85°	2038	2038	1501	2038



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.2	1.5
10°-20°	145.9	4.3
20°-30°	211.8	6.3
30°-40°	223.5	6.7
40°-50°	197.9	5.9
50°-60°	157.9	4.7
60°-70°	107.3	3.2
70°-80°	55.0	1.6
80°-90°	16.4	0.5
90°-100°	49.7	1.5
100°-110°	154.3	4.6
110°-120°	263.8	7.9
120°-130°	346.9	10.3
130°-140°	389.3	11.6
140°-150°	381.7	11.4
150°-160°	320.2	9.5
160°-170°	212.4	6.3
170°-180°	74.2	2.2
0°-30°	407.9	12.1
0°-40°	631.4	18.8
0°-60°	987.2	29.4
0°-90°	1166.0	34.7
90°-120°	467.8	13.9
90°-150°	1585.7	47.2
90°-180°	2193.0	65.3
0°-180°	3358.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	527	527	527	527	527	
5°	589	528	468	528	589	59
15°	724	499	347	499	724	200
25°	603	446	279	446	603	272
35°	328	366	231	366	328	213
45°	198	275	190	275	198	155
55°	139	188	147	188	139	125
65°	86	112	99	112	86	85
75°	42	53	50	53	42	45
85°	11	11	8	11	11	13
90°	22	1	22	1	22	10
95°	41	34	41	34	41	46
105°	147	142	147	142	147	155
115°	265	265	265	265	265	261
125°	386	385	386	385	386	345
135°	504	498	504	498	504	388
145°	611	605	611	605	611	382
155°	697	691	697	691	697	321
165°	753	752	753	752	753	212
175°	780	783	780	783	780	74
180°	784	784	784	784	784	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	551.3	551.5	551.9	549.3	548.9	548.9	546.7	544.7	542.4	539.4	539.8
5°	588.6	590.8	591.7	589.2	585.6	585.2	581.8	576.1	570.8	566.6	563.6
7.5°	633.1	634.0	632.0	628.8	626.2	621.3	614.8	608.6	599.8	591.7	585.8
10°	666.8	668.1	664.6	660.0	656.1	650.4	641.1	631.6	620.1	608.9	600.0
12.5°	692.4	695.4	691.0	690.5	683.9	676.0	664.9	660.1	643.9	628.4	618.8
15°	723.5	723.4	723.8	719.9	715.1	713.8	702.1	689.3	666.5	657.3	641.5
17.5°	714.5	717.6	719.1	719.0	718.9	718.1	714.3	706.3	694.8	680.0	661.8
20°	693.2	697.2	697.9	702.5	705.2	708.6	710.0	707.8	700.7	688.3	672.5
22.5°	660.1	661.3	663.2	670.4	676.1	684.7	689.2	696.8	694.0	688.0	674.8
25°	602.8	600.8	607.9	611.5	624.7	638.5	648.5	659.3	669.1	674.9	671.1
27.5°	534.0	531.0	541.6	551.3	562.0	576.9	592.4	610.6	625.8	644.9	651.4
30°	476.0	477.9	487.9	498.3	514.5	535.6	553.0	573.0	594.8	616.0	630.8
32.5°	413.5	420.4	426.9	442.7	457.0	480.5	506.0	531.1	558.1	582.3	605.2
35°	328.1	336.3	345.2	356.7	376.7	400.0	425.0	458.8	495.7	528.7	555.8
37.5°	276.3	274.9	280.0	288.4	304.6	323.4	352.1	385.5	428.9	467.7	506.0
40°	245.1	244.3	247.9	255.7	268.0	281.8	306.9	336.3	376.6	424.0	469.6
42.5°	223.7	224.2	226.2	231.7	240.1	251.5	270.3	295.2	332.2	376.8	425.8
45°	197.7	199.1	201.3	204.0	208.8	218.2	228.7	246.6	275.7	313.0	361.1
47.5°	179.0	179.1	181.3	183.6	186.5	191.7	200.4	211.5	232.1	262.4	303.9
50°	169.0	167.6	169.2	170.9	174.0	177.6	183.3	193.9	207.6	232.1	266.8
52.5°	156.6	156.7	158.1	158.8	161.5	165.1	170.3	177.6	190.1	209.3	237.7
55°	138.9	140.0	140.8	142.0	144.5	147.0	151.1	156.0	165.7	180.0	201.2
57.5°	122.3	122.7	123.5	125.8	127.3	129.7	133.6	138.0	144.4	155.0	170.9
60°	111.0	111.0	112.6	113.6	115.7	118.1	121.1	125.4	131.1	139.7	152.6
62.5°	100.7	100.5	101.1	102.8	104.3	106.6	109.6	113.2	118.6	126.4	136.8
65°	85.5	85.1	86.3	86.7	88.3	90.5	93.0	96.8	101.1	106.7	116.1
67.5°	70.9	71.4	72.1	72.8	73.7	76.1	77.7	80.3	84.0	88.7	95.0
70°	62.8	62.8	62.8	63.4	64.6	65.8	67.4	69.6	73.1	77.1	82.8
72.5°	53.7	54.4	55.0	54.7	56.2	56.9	58.9	60.1	63.4	66.0	71.0
75°	42.2	42.2	42.2	43.2	43.8	44.3	45.6	46.8	48.4	51.6	54.3
77.5°	31.5	31.4	31.6	31.8	32.5	33.2	33.5	34.6	36.1	37.6	39.9
80°	24.3	24.7	24.9	25.3	25.3	25.7	25.9	27.4	28.4	29.3	30.8
82.5°	18.8	18.9	18.9	19.0	19.2	19.4	20.0	20.4	20.8	21.6	22.6
85°	11.0	10.7	10.7	11.1	11.0	11.0	11.3	11.8	11.8	11.9	12.6
87.5°	8.7	8.6	8.8	8.6	8.6	8.7	8.8	8.7	8.9	9.2	8.6
90°	22.5	22.4	22.2	22.0	21.9	22.0	22.3	22.6	22.8	23.2	19.9
92.5°	21.4	21.4	21.4	21.3	21.3	21.3	21.2	21.1	21.1	21.0	20.2
95°	41.0	41.3	41.6	41.9	42.2	42.4	42.4	42.4	42.4	42.4	42.1
97.5°	71.1	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	70.6
100°	90.7	90.8	91.0	91.1	91.2	91.3	91.3	91.3	91.3	91.3	90.9
102.5°	112.9	113.1	113.2	113.3	113.5	113.5	113.3	113.2	113.2	113.0	112.4
105°	146.9	146.9	146.9	146.9	146.9	146.8	146.4	146.2	145.9	145.6	145.3
107.5°	179.0	179.6	180.3	180.9	181.6	181.9	181.8	181.6	181.6	181.5	181.5
110°	203.8	204.2	204.6	205.1	205.5	205.8	205.8	205.8	205.8	205.8	205.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	227.7	227.9	228.3	228.6	228.9	229.3	229.6	230.0	230.3	230.7	230.8
115°	264.7	265.1	265.6	266.0	266.4	266.7	266.9	267.1	267.2	267.3	267.6
117.5°	300.0	300.4	300.9	301.3	301.8	302.2	302.6	302.9	303.3	303.6	304.4
120°	324.9	325.3	325.7	326.2	326.6	326.9	326.9	326.9	326.9	326.9	328.1
122.5°	349.3	349.6	349.9	350.2	350.5	350.9	351.2	351.6	352.0	352.3	353.1
125°	386.5	386.6	386.7	386.9	387.0	387.3	387.7	388.2	388.6	389.1	389.5
127.5°	420.4	420.8	421.2	421.7	422.2	422.7	423.2	423.7	424.3	424.8	425.3
130°	444.7	445.2	445.9	446.4	447.0	447.5	447.7	448.1	448.4	448.6	448.9
132.5°	468.0	468.4	468.9	469.4	469.8	470.4	471.0	471.7	472.3	473.0	473.0
135°	504.2	504.6	505.1	505.5	506.0	506.3	506.4	506.6	506.7	506.8	506.6
137.5°	537.0	537.6	538.2	538.8	539.4	539.8	539.8	539.9	540.1	540.2	539.8
140°	559.8	560.4	561.0	561.6	562.1	562.4	562.4	562.4	562.4	562.4	561.7
142.5°	580.4	581.0	581.6	582.2	582.8	583.0	582.9	582.8	582.6	582.6	582.0
145°	611.4	612.0	612.6	613.1	613.8	613.9	613.9	613.7	613.5	613.4	612.5
147.5°	639.1	639.6	640.2	640.8	641.3	641.4	641.1	640.8	640.4	640.2	639.5
150°	657.1	657.5	657.9	658.4	658.8	658.8	658.4	657.9	657.5	657.1	656.5
152.5°	674.0	674.6	675.1	675.6	676.3	676.3	675.6	675.1	674.6	674.0	673.3
155°	696.8	697.2	697.7	698.1	698.6	698.4	697.7	696.9	696.2	695.4	695.0
157.5°	716.3	717.0	717.7	718.5	719.2	719.0	718.0	717.0	716.0	715.1	714.8
160°	728.5	729.2	729.7	730.3	730.8	730.8	729.9	729.0	728.1	727.2	727.0
162.5°	739.1	739.9	740.6	741.2	741.9	741.8	740.8	739.8	738.8	737.8	737.6
165°	753.0	753.8	754.5	755.2	756.0	755.8	754.7	753.8	752.7	751.7	751.7
167.5°	764.4	765.2	765.9	766.7	767.4	767.3	766.2	765.3	764.2	763.2	763.2
170°	770.2	771.1	772.0	772.8	773.7	773.6	772.7	771.6	770.6	769.5	769.7
172.5°	775.0	775.9	776.8	777.7	778.5	778.5	777.4	776.4	775.3	774.3	774.5
175°	780.2	781.0	781.9	782.7	783.6	783.6	782.6	781.5	780.5	779.4	779.8
177.5°	782.5	783.2	783.9	784.6	785.3	785.3	784.6	783.9	783.2	782.5	782.7
180°	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	540.8	539.6	538.8	535.8	533.2	530.7	529.9	530.1	526.6	523.2	521.7
5°	562.0	557.9	554.0	548.6	542.1	534.9	531.4	528.5	521.4	513.7	509.3
7.5°	580.8	575.0	567.6	557.3	547.9	536.7	529.6	523.3	513.0	502.1	495.4
10°	592.3	584.4	574.9	562.3	550.8	537.2	527.7	518.2	506.0	493.0	484.9
12.5°	602.2	591.6	582.2	566.1	552.4	535.4	524.1	510.7	497.9	482.5	474.6
15°	625.7	606.1	588.3	570.0	553.2	529.5	516.9	498.9	482.1	463.1	454.0
17.5°	643.9	621.8	593.8	570.6	551.0	524.7	506.3	484.7	464.8	443.1	430.7
20°	654.2	628.9	598.8	571.2	547.8	517.7	497.7	475.6	452.4	427.8	414.5
22.5°	660.4	633.8	604.0	568.8	541.3	512.1	486.9	462.6	439.1	412.6	398.6
25°	662.4	638.1	606.5	566.8	533.2	500.2	469.8	446.2	417.7	393.0	372.6
27.5°	652.7	635.3	604.9	562.9	523.8	485.2	451.3	424.7	394.6	367.7	347.1
30°	640.9	630.8	601.2	559.1	516.3	474.8	437.6	407.3	377.4	350.3	329.1
32.5°	622.6	620.5	594.4	553.6	508.4	461.7	423.1	392.6	359.4	332.7	312.6
35°	586.7	596.4	580.0	541.3	493.5	443.0	401.3	366.4	332.0	306.5	287.7
37.5°	538.4	562.6	558.3	523.3	473.2	422.7	376.6	340.2	307.4	281.6	263.1
40°	505.2	536.0	540.5	509.4	459.1	407.0	358.1	321.9	289.9	266.4	247.7
42.5°	469.6	505.5	517.7	492.9	443.4	390.4	341.6	304.1	272.3	249.5	233.0
45°	409.8	457.4	479.5	465.3	417.5	363.2	313.0	274.9	246.1	224.6	211.9
47.5°	353.9	405.9	435.6	430.6	388.6	334.8	285.2	248.6	220.6	203.5	192.1
50°	314.4	367.8	403.7	405.4	367.8	314.6	264.7	230.3	204.6	188.6	179.2
52.5°	280.0	331.1	370.1	378.8	344.6	293.6	246.5	212.1	189.5	174.8	166.5
55°	235.1	278.3	321.6	337.5	310.1	261.5	217.9	187.8	166.5	156.4	149.1
57.5°	195.6	231.5	271.5	289.0	272.2	230.5	189.7	163.5	146.2	137.3	131.7
60°	174.6	203.0	238.6	259.5	244.9	207.9	172.2	147.2	133.0	125.2	119.9
62.5°	155.2	180.3	210.4	229.5	221.6	186.6	154.7	132.7	120.5	113.1	109.2
65°	128.0	147.8	171.2	188.8	183.5	157.0	130.8	112.0	102.3	96.4	93.4
67.5°	105.4	119.8	135.9	151.3	147.1	128.3	107.4	92.6	85.4	80.3	78.5
70°	91.1	102.1	116.5	128.9	125.4	110.0	93.4	80.8	74.5	70.3	68.5
72.5°	77.6	86.5	97.6	107.6	105.3	92.5	78.6	69.2	64.3	60.4	58.9
75°	58.6	65.5	72.1	78.8	78.2	68.3	60.2	52.9	49.0	46.0	45.4
77.5°	43.2	47.1	51.6	55.6	54.5	48.8	42.4	38.3	35.5	33.4	33.1
80°	33.0	35.2	38.5	41.3	39.9	37.5	32.4	29.3	27.4	25.3	24.5
82.5°	24.0	26.1	28.1	29.7	28.5	26.3	23.2	21.1	19.9	18.5	18.2
85°	12.6	13.7	14.6	15.0	14.6	13.2	11.8	11.0	9.9	9.3	9.1
87.5°	8.2	7.6	6.9	6.7	5.9	5.5	4.5	3.7	3.9	4.1	4.1
90°	16.7	13.5	10.3	7.8	6.0	4.2	2.4	0.6	2.4	4.2	6.0
92.5°	19.5	18.7	18.0	16.9	15.7	14.4	13.1	11.8	13.1	14.4	15.7
95°	41.7	41.5	41.2	40.3	38.8	37.4	35.8	34.4	35.8	37.4	38.8
97.5°	70.1	69.6	68.9	68.0	66.7	65.5	64.1	62.9	64.1	65.5	66.7
100°	90.4	90.0	89.5	88.7	87.6	86.4	85.2	84.0	85.2	86.4	87.6
102.5°	111.9	111.4	110.8	110.0	109.1	108.2	107.2	106.3	107.2	108.2	109.1
105°	145.0	144.7	144.4	144.0	143.6	143.1	142.7	142.2	142.7	143.1	143.6
107.5°	181.5	181.5	181.5	181.1	180.5	179.9	179.1	178.5	179.1	179.9	180.5
110°	205.8	205.8	205.8	205.4	204.5	203.6	202.7	201.8	202.7	203.6	204.5





TEST NUMBER: P331472-940

CATALOG NUMBER: S122DIW-S290D710U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	230.9	231.0	231.1	230.8	229.9	229.0	228.1	227.2	228.1	229.0	229.9
115°	267.9	268.2	268.5	268.2	267.3	266.4	265.6	264.7	265.6	266.4	267.3
117.5°	305.2	306.0	306.8	306.7	305.5	304.3	303.2	302.0	303.2	304.3	305.5
120°	329.2	330.4	331.5	331.5	330.4	329.2	328.1	326.9	328.1	329.2	330.4
122.5°	353.9	354.7	355.6	355.3	353.8	352.5	351.1	349.6	351.1	352.5	353.8
125°	389.9	390.4	390.8	390.4	389.1	387.7	386.5	385.1	386.5	387.7	389.1
127.5°	425.9	426.4	427.0	426.3	424.6	423.0	421.3	419.6	421.3	423.0	424.6
130°	449.2	449.5	449.8	449.0	447.1	445.1	443.3	441.3	443.3	445.1	447.1
132.5°	472.9	472.8	472.8	471.9	470.4	468.9	467.3	465.7	467.3	468.9	470.4
135°	506.3	506.0	505.7	504.7	503.1	501.5	499.9	498.3	499.9	501.5	503.1
137.5°	539.5	539.0	538.7	537.8	536.5	535.2	533.9	532.5	533.9	535.2	536.5
140°	561.0	560.3	559.5	558.5	557.1	555.8	554.5	553.2	554.5	555.8	557.1
142.5°	581.6	581.0	580.6	579.6	578.4	577.0	575.7	574.4	575.7	577.0	578.4
145°	611.6	610.7	609.8	608.9	607.9	606.8	605.8	604.8	605.8	606.8	607.9
147.5°	638.9	638.4	637.8	636.9	635.6	634.4	633.1	632.0	633.1	634.4	635.6
150°	655.9	655.3	654.7	654.0	653.1	652.2	651.3	650.4	651.3	652.2	653.1
152.5°	672.6	671.9	671.2	670.4	669.5	668.6	667.7	666.8	667.7	668.6	669.5
155°	694.6	694.1	693.7	693.2	692.8	692.3	691.9	691.4	691.9	692.3	692.8
157.5°	714.5	714.3	714.0	713.7	713.4	713.1	712.8	712.5	712.8	713.1	713.4
160°	726.9	726.7	726.7	726.4	726.1	725.8	725.5	725.2	725.5	725.8	726.1
162.5°	737.5	737.4	737.2	737.1	737.0	737.0	736.9	736.8	736.9	737.0	737.0
165°	751.7	751.7	751.7	751.8	751.9	752.1	752.2	752.3	752.2	752.1	751.9
167.5°	763.2	763.3	763.3	763.6	764.0	764.5	764.9	765.4	764.9	764.5	764.0
170°	769.8	770.0	770.2	770.4	770.9	771.3	771.8	772.2	771.8	771.3	770.9
172.5°	774.6	774.7	774.9	775.2	775.6	776.1	776.5	776.9	776.5	776.1	775.6
175°	780.1	780.3	780.7	781.0	781.5	781.9	782.4	782.7	782.4	781.9	781.5
177.5°	783.0	783.2	783.5	783.7	784.1	784.4	784.8	785.2	784.8	784.4	784.1
180°	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1



TEST NUMBER: P331472-940

CATALOG NUMBER: S122DIW-S290D710U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	520.1	519.2	515.8	514.0	511.0	508.3	506.5	507.3	507.9	507.7	507.1
5°	505.2	501.3	495.4	490.4	486.8	480.1	477.2	475.8	474.6	473.2	471.8
7.5°	487.4	481.3	473.0	465.7	459.0	450.6	445.9	443.1	440.1	436.9	434.1
10°	474.8	466.3	457.4	447.3	439.2	431.7	425.0	420.5	416.4	412.6	409.8
12.5°	461.5	451.7	440.7	426.9	417.9	407.2	406.2	398.3	392.0	389.6	386.3
15°	440.4	426.6	412.6	396.2	389.1	379.4	373.4	367.2	361.8	357.9	357.0
17.5°	416.3	398.5	384.6	372.8	361.2	351.2	345.6	340.8	336.3	331.2	330.5
20°	398.1	382.6	367.5	357.1	345.2	335.0	328.1	323.3	319.4	316.4	313.8
22.5°	380.7	363.8	349.9	338.7	326.9	318.7	313.3	308.5	305.3	302.0	299.5
25°	352.8	339.7	324.5	311.7	302.0	296.8	292.3	288.3	286.2	284.0	281.2
27.5°	328.5	313.9	299.7	289.8	281.2	276.6	273.4	270.6	268.8	267.4	265.8
30°	311.4	296.6	285.4	275.7	268.6	263.9	261.9	260.3	258.1	257.3	256.5
32.5°	294.8	281.5	272.0	263.5	256.8	253.7	251.9	250.4	248.7	247.9	246.2
35°	271.4	260.3	251.0	246.3	240.9	238.2	236.8	234.8	233.2	232.4	232.1
37.5°	249.4	239.8	233.6	227.7	225.3	223.7	221.8	220.4	219.9	219.8	219.5
40°	235.1	227.3	221.8	217.0	216.0	213.5	211.9	210.7	210.7	210.9	210.7
42.5°	222.2	215.1	210.3	206.1	204.9	203.5	201.8	201.8	202.1	202.8	202.1
45°	202.6	197.5	194.0	192.1	189.8	188.4	188.2	188.8	189.0	189.2	189.8
47.5°	184.5	181.1	178.0	175.8	174.8	174.6	174.3	175.4	176.4	176.7	177.6
50°	173.8	170.0	167.3	165.9	165.1	164.7	165.1	166.3	167.1	168.1	168.7
52.5°	161.8	159.1	157.3	156.1	155.9	156.1	156.1	157.6	158.8	159.3	159.5
55°	145.3	143.2	142.9	141.0	141.8	141.6	142.6	143.4	144.6	145.9	146.1
57.5°	128.7	127.1	126.0	126.2	126.4	127.3	128.1	129.6	130.8	132.2	132.2
60°	117.7	116.9	116.3	116.3	116.6	117.9	118.9	120.3	121.1	122.0	122.5
62.5°	107.6	106.8	106.2	106.6	107.6	108.3	109.5	110.3	111.1	111.9	112.2
65°	91.8	91.4	91.9	92.4	92.6	93.5	95.0	95.6	96.4	96.8	98.3
67.5°	77.1	77.2	77.1	77.7	78.9	79.1	80.4	81.9	82.0	82.8	83.7
70°	67.2	67.7	68.0	68.5	69.5	69.9	70.9	71.5	72.3	72.9	73.6
72.5°	58.1	58.2	58.7	58.6	59.5	60.3	61.2	61.8	62.6	63.4	63.9
75°	44.8	44.8	45.2	45.4	46.4	47.4	47.2	47.6	48.4	49.2	49.7
77.5°	32.7	32.3	32.7	32.9	33.3	34.1	34.2	34.8	35.8	35.5	35.9
80°	24.9	24.3	24.9	25.1	25.1	26.1	26.1	26.6	27.1	26.6	27.1
82.5°	17.7	17.5	17.9	18.0	18.3	18.4	18.6	18.7	19.4	19.1	19.4
85°	8.9	8.7	8.9	8.7	8.9	9.1	9.1	8.9	8.9	9.3	8.7
87.5°	4.3	4.6	5.1	5.8	6.2	6.8	6.5	6.4	6.4	6.0	6.0
90°	7.8	10.3	13.5	16.7	19.9	23.2	22.8	22.6	22.3	22.0	21.9
92.5°	16.9	18.0	18.7	19.5	20.2	21.0	21.1	21.1	21.2	21.3	21.3
95°	40.3	41.2	41.5	41.7	42.1	42.4	42.4	42.4	42.4	42.4	42.2
97.5°	68.0	68.9	69.6	70.1	70.6	71.2	71.2	71.2	71.2	71.2	71.2
100°	88.7	89.5	90.0	90.4	90.9	91.3	91.3	91.3	91.3	91.3	91.2
102.5°	110.0	110.8	111.4	111.9	112.4	113.0	113.2	113.2	113.3	113.5	113.5
105°	144.0	144.4	144.7	145.0	145.3	145.6	145.9	146.2	146.4	146.8	146.9
107.5°	181.1	181.5	181.5	181.5	181.5	181.5	181.6	181.6	181.8	181.9	181.6
110°	205.4	205.8	205.8	205.8	205.8	205.8	205.8	205.8	205.8	205.8	205.5



TEST NUMBER: P331472-940

CATALOG NUMBER: S122DIW-S290D710U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	230.8	231.1	231.0	230.9	230.8	230.7	230.3	230.0	229.6	229.3	228.9
115°	268.2	268.5	268.2	267.9	267.6	267.3	267.2	267.1	266.9	266.7	266.4
117.5°	306.7	306.8	306.0	305.2	304.4	303.6	303.3	302.9	302.6	302.2	301.8
120°	331.5	331.5	330.4	329.2	328.1	326.9	326.9	326.9	326.9	326.9	326.6
122.5°	355.3	355.6	354.7	353.9	353.1	352.3	352.0	351.6	351.2	350.9	350.5
125°	390.4	390.8	390.4	389.9	389.5	389.1	388.6	388.2	387.7	387.3	387.0
127.5°	426.3	427.0	426.4	425.9	425.3	424.8	424.3	423.7	423.2	422.7	422.2
130°	449.0	449.8	449.5	449.2	448.9	448.6	448.4	448.1	447.7	447.5	447.0
132.5°	471.9	472.8	472.8	472.9	473.0	473.0	472.3	471.7	471.0	470.4	469.8
135°	504.7	505.7	506.0	506.3	506.6	506.8	506.7	506.6	506.4	506.3	506.0
137.5°	537.8	538.7	539.0	539.5	539.8	540.2	540.1	539.9	539.8	539.8	539.4
140°	558.5	559.5	560.3	561.0	561.7	562.4	562.4	562.4	562.4	562.4	562.1
142.5°	579.6	580.6	581.0	581.6	582.0	582.6	582.6	582.8	582.9	583.0	582.8
145°	608.9	609.8	610.7	611.6	612.5	613.4	613.5	613.7	613.9	613.9	613.8
147.5°	636.9	637.8	638.4	638.9	639.5	640.2	640.4	640.8	641.1	641.4	641.3
150°	654.0	654.7	655.3	655.9	656.5	657.1	657.5	657.9	658.4	658.8	658.8
152.5°	670.4	671.2	671.9	672.6	673.3	674.0	674.6	675.1	675.6	676.3	676.3
155°	693.2	693.7	694.1	694.6	695.0	695.4	696.2	696.9	697.7	698.4	698.6
157.5°	713.7	714.0	714.3	714.5	714.8	715.1	716.0	717.0	718.0	719.0	719.2
160°	726.4	726.7	726.7	726.9	727.0	727.2	728.1	729.0	729.9	730.8	730.8
162.5°	737.1	737.2	737.4	737.5	737.6	737.8	738.8	739.8	740.8	741.8	741.9
165°	751.8	751.7	751.7	751.7	751.7	751.7	752.7	753.8	754.7	755.8	756.0
167.5°	763.6	763.3	763.3	763.2	763.2	763.2	764.2	765.3	766.2	767.3	767.4
170°	770.4	770.2	770.0	769.8	769.7	769.5	770.6	771.6	772.7	773.6	773.7
172.5°	775.2	774.9	774.7	774.6	774.5	774.3	775.3	776.4	777.4	778.5	778.5
175°	781.0	780.7	780.3	780.1	779.8	779.4	780.5	781.5	782.6	783.6	783.6
177.5°	783.7	783.5	783.2	783.0	782.7	782.5	783.2	783.9	784.6	785.3	785.3
180°	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1



TEST NUMBER: P331472-940

CATALOG NUMBER: S122DIW-S290D710U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	505.5	505.2	505.2	503.7	505.2	505.2	505.5	507.1	507.7	507.9	507.3
5°	469.0	468.3	467.3	468.3	467.3	468.3	469.0	471.8	473.2	474.6	475.8
7.5°	432.7	430.3	430.0	427.6	430.0	430.3	432.7	434.1	436.9	440.1	443.1
10°	406.4	404.7	404.5	400.6	404.5	404.7	406.4	409.8	412.6	416.4	420.5
12.5°	386.3	382.4	383.2	380.9	383.2	382.4	386.3	386.3	389.6	392.0	398.3
15°	351.4	351.4	350.6	347.2	350.6	351.4	351.4	357.0	357.9	361.8	367.2
17.5°	326.5	326.0	324.1	325.1	324.1	326.0	326.5	330.5	331.2	336.3	340.8
20°	311.6	310.3	307.9	307.9	307.9	310.3	311.6	313.8	316.4	319.4	323.3
22.5°	297.5	297.4	294.8	295.6	294.8	297.4	297.5	299.5	302.0	305.3	308.5
25°	281.0	279.4	278.1	278.7	278.1	279.4	281.0	281.2	284.0	286.2	288.3
27.5°	265.3	264.4	264.3	262.7	264.3	264.4	265.3	265.8	267.4	268.8	270.6
30°	256.3	254.2	254.6	253.6	254.6	254.2	256.3	256.5	257.3	258.1	260.3
32.5°	245.8	245.1	244.8	243.9	244.8	245.1	245.8	246.2	247.9	248.7	250.4
35°	231.8	231.9	231.0	231.3	231.0	231.9	231.8	232.1	232.4	233.2	234.8
37.5°	219.4	220.0	219.5	219.6	219.5	220.0	219.4	219.5	219.8	219.9	220.4
40°	211.2	211.2	211.2	211.9	211.2	211.2	211.2	210.7	210.9	210.7	210.7
42.5°	203.5	203.1	202.9	202.8	202.9	203.1	203.5	202.1	202.8	202.1	201.8
45°	190.2	190.8	191.0	190.0	191.0	190.8	190.2	189.8	189.2	189.0	188.8
47.5°	178.2	178.3	178.2	179.1	178.2	178.3	178.2	177.6	176.7	176.4	175.4
50°	169.8	169.3	169.8	169.3	169.8	169.3	169.8	168.7	168.1	167.1	166.3
52.5°	160.9	161.0	160.7	160.6	160.7	161.0	160.9	159.5	159.3	158.8	157.6
55°	146.9	147.2	147.0	147.0	147.0	147.2	146.9	146.1	145.9	144.6	143.4
57.5°	132.4	132.8	133.0	132.2	133.0	132.8	132.4	132.2	132.2	130.8	129.6
60°	122.3	123.3	123.1	122.8	123.1	123.3	122.3	122.5	122.0	121.1	120.3
62.5°	113.1	113.5	113.4	113.3	113.4	113.5	113.1	112.2	111.9	111.1	110.3
65°	98.9	99.2	98.6	99.2	98.6	99.2	98.9	98.3	96.8	96.4	95.6
67.5°	83.5	83.6	84.1	84.4	84.1	83.6	83.5	83.7	82.8	82.0	81.9
70°	73.9	73.7	74.4	75.0	74.4	73.7	73.9	73.6	72.9	72.3	71.5
72.5°	63.8	64.3	64.1	64.6	64.1	64.3	63.8	63.9	63.4	62.6	61.8
75°	49.2	49.8	49.7	50.2	49.7	49.8	49.2	49.7	49.2	48.4	47.6
77.5°	35.6	35.7	35.6	35.9	35.6	35.7	35.6	35.9	35.5	35.8	34.8
80°	27.1	26.8	26.3	27.1	26.3	26.8	27.1	27.1	26.6	27.1	26.6
82.5°	18.9	19.1	18.7	18.7	18.7	19.1	18.9	19.4	19.1	19.4	18.7
85°	8.7	8.5	8.1	8.1	8.1	8.5	8.7	8.7	9.3	8.9	8.9
87.5°	6.1	5.9	5.9	5.8	5.9	5.9	6.1	6.0	6.0	6.4	6.4
90°	22.0	22.2	22.4	22.5	22.4	22.2	22.0	21.9	22.0	22.3	22.6
92.5°	21.3	21.4	21.4	21.4	21.4	21.4	21.3	21.3	21.3	21.2	21.1
95°	41.9	41.6	41.3	41.0	41.3	41.6	41.9	42.2	42.4	42.4	42.4
97.5°	71.2	71.2	71.1	71.1	71.1	71.2	71.2	71.2	71.2	71.2	71.2
100°	91.1	91.0	90.8	90.7	90.8	91.0	91.1	91.2	91.3	91.3	91.3
102.5°	113.3	113.2	113.1	112.9	113.1	113.2	113.3	113.5	113.5	113.3	113.2
105°	146.9	146.9	146.9	146.9	146.9	146.9	146.9	146.9	146.8	146.4	146.2
107.5°	180.9	180.3	179.6	179.0	179.6	180.3	180.9	181.6	181.9	181.8	181.6
110°	205.1	204.6	204.2	203.8	204.2	204.6	205.1	205.5	205.8	205.8	205.8



TEST NUMBER: P331472-940

CATALOG NUMBER: S122DIW-S290D710U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	228.6	228.3	227.9	227.7	227.9	228.3	228.6	228.9	229.3	229.6	230.0
115°	266.0	265.6	265.1	264.7	265.1	265.6	266.0	266.4	266.7	266.9	267.1
117.5°	301.3	300.9	300.4	300.0	300.4	300.9	301.3	301.8	302.2	302.6	302.9
120°	326.2	325.7	325.3	324.9	325.3	325.7	326.2	326.6	326.9	326.9	326.9
122.5°	350.2	349.9	349.6	349.3	349.6	349.9	350.2	350.5	350.9	351.2	351.6
125°	386.9	386.7	386.6	386.5	386.6	386.7	386.9	387.0	387.3	387.7	388.2
127.5°	421.7	421.2	420.8	420.4	420.8	421.2	421.7	422.2	422.7	423.2	423.7
130°	446.4	445.9	445.2	444.7	445.2	445.9	446.4	447.0	447.5	447.7	448.1
132.5°	469.4	468.9	468.4	468.0	468.4	468.9	469.4	469.8	470.4	471.0	471.7
135°	505.5	505.1	504.6	504.2	504.6	505.1	505.5	506.0	506.3	506.4	506.6
137.5°	538.8	538.2	537.6	537.0	537.6	538.2	538.8	539.4	539.8	539.8	539.9
140°	561.6	561.0	560.4	559.8	560.4	561.0	561.6	562.1	562.4	562.4	562.4
142.5°	582.2	581.6	581.0	580.4	581.0	581.6	582.2	582.8	583.0	582.9	582.8
145°	613.1	612.6	612.0	611.4	612.0	612.6	613.1	613.8	613.9	613.9	613.7
147.5°	640.8	640.2	639.6	639.1	639.6	640.2	640.8	641.3	641.4	641.1	640.8
150°	658.4	657.9	657.5	657.1	657.5	657.9	658.4	658.8	658.8	658.4	657.9
152.5°	675.6	675.1	674.6	674.0	674.6	675.1	675.6	676.3	676.3	675.6	675.1
155°	698.1	697.7	697.2	696.8	697.2	697.7	698.1	698.6	698.4	697.7	696.9
157.5°	718.5	717.7	717.0	716.3	717.0	717.7	718.5	719.2	719.0	718.0	717.0
160°	730.3	729.7	729.2	728.5	729.2	729.7	730.3	730.8	730.8	729.9	729.0
162.5°	741.2	740.6	739.9	739.1	739.9	740.6	741.2	741.9	741.8	740.8	739.8
165°	755.2	754.5	753.8	753.0	753.8	754.5	755.2	756.0	755.8	754.7	753.8
167.5°	766.7	765.9	765.2	764.4	765.2	765.9	766.7	767.4	767.3	766.2	765.3
170°	772.8	772.0	771.1	770.2	771.1	772.0	772.8	773.7	773.6	772.7	771.6
172.5°	777.7	776.8	775.9	775.0	775.9	776.8	777.7	778.5	778.5	777.4	776.4
175°	782.7	781.9	781.0	780.2	781.0	781.9	782.7	783.6	783.6	782.6	781.5
177.5°	784.6	783.9	783.2	782.5	783.2	783.9	784.6	785.3	785.3	784.6	783.9
180°	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1



TEST NUMBER: P331472-940

CATALOG NUMBER: S122DIW-S290D710U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	506.5	508.3	511.0	514.0	515.8	519.2	520.1	521.7	523.2	526.6	530.1
5°	477.2	480.1	486.8	490.4	495.4	501.3	505.2	509.3	513.7	521.4	528.5
7.5°	445.9	450.6	459.0	465.7	473.0	481.3	487.4	495.4	502.1	513.0	523.3
10°	425.0	431.7	439.2	447.3	457.4	466.3	474.8	484.9	493.0	506.0	518.2
12.5°	406.2	407.2	417.9	426.9	440.7	451.7	461.5	474.6	482.5	497.9	510.7
15°	373.4	379.4	389.1	396.2	412.6	426.6	440.4	454.0	463.1	482.1	498.9
17.5°	345.6	351.2	361.2	372.8	384.6	398.5	416.3	430.7	443.1	464.8	484.7
20°	328.1	335.0	345.2	357.1	367.5	382.6	398.1	414.5	427.8	452.4	475.6
22.5°	313.3	318.7	326.9	338.7	349.9	363.8	380.7	398.6	412.6	439.1	462.6
25°	292.3	296.8	302.0	311.7	324.5	339.7	352.8	372.6	393.0	417.7	446.2
27.5°	273.4	276.6	281.2	289.8	299.7	313.9	328.5	347.1	367.7	394.6	424.7
30°	261.9	263.9	268.6	275.7	285.4	296.6	311.4	329.1	350.3	377.4	407.3
32.5°	251.9	253.7	256.8	263.5	272.0	281.5	294.8	312.6	332.7	359.4	392.6
35°	236.8	238.2	240.9	246.3	251.0	260.3	271.4	287.7	306.5	332.0	366.4
37.5°	221.8	223.7	225.3	227.7	233.6	239.8	249.4	263.1	281.6	307.4	340.2
40°	211.9	213.5	216.0	217.0	221.8	227.3	235.1	247.7	266.4	289.9	321.9
42.5°	201.8	203.5	204.9	206.1	210.3	215.1	222.2	233.0	249.5	272.3	304.1
45°	188.2	188.4	189.8	192.1	194.0	197.5	202.6	211.9	224.6	246.1	274.9
47.5°	174.3	174.6	174.8	175.8	178.0	181.1	184.5	192.1	203.5	220.6	248.6
50°	165.1	164.7	165.1	165.9	167.3	170.0	173.8	179.2	188.6	204.6	230.3
52.5°	156.1	156.1	155.9	156.1	157.3	159.1	161.8	166.5	174.8	189.5	212.1
55°	142.6	141.6	141.8	141.0	142.9	143.2	145.3	149.1	156.4	166.5	187.8
57.5°	128.1	127.3	126.4	126.2	126.0	127.1	128.7	131.7	137.3	146.2	163.5
60°	118.9	117.9	116.6	116.3	116.3	116.9	117.7	119.9	125.2	133.0	147.2
62.5°	109.5	108.3	107.6	106.6	106.2	106.8	107.6	109.2	113.1	120.5	132.7
65°	95.0	93.5	92.6	92.4	91.9	91.4	91.8	93.4	96.4	102.3	112.0
67.5°	80.4	79.1	78.9	77.7	77.1	77.2	77.1	78.5	80.3	85.4	92.6
70°	70.9	69.9	69.5	68.5	68.0	67.7	67.2	68.5	70.3	74.5	80.8
72.5°	61.2	60.3	59.5	58.6	58.7	58.2	58.1	58.9	60.4	64.3	69.2
75°	47.2	47.4	46.4	45.4	45.2	44.8	44.8	45.4	46.0	49.0	52.9
77.5°	34.2	34.1	33.3	32.9	32.7	32.3	32.7	33.1	33.4	35.5	38.3
80°	26.1	26.1	25.1	25.1	24.9	24.3	24.9	24.5	25.3	27.4	29.3
82.5°	18.6	18.4	18.3	18.0	17.9	17.5	17.7	18.2	18.5	19.9	21.1
85°	9.1	9.1	8.9	8.7	8.9	8.7	8.9	9.1	9.3	9.9	11.0
87.5°	6.5	6.8	6.2	5.8	5.1	4.6	4.3	4.1	4.1	3.9	3.7
90°	22.8	23.2	19.9	16.7	13.5	10.3	7.8	6.0	4.2	2.4	0.6
92.5°	21.1	21.0	20.2	19.5	18.7	18.0	16.9	15.7	14.4	13.1	11.8
95°	42.4	42.4	42.1	41.7	41.5	41.2	40.3	38.8	37.4	35.8	34.4
97.5°	71.2	71.2	70.6	70.1	69.6	68.9	68.0	66.7	65.5	64.1	62.9
100°	91.3	91.3	90.9	90.4	90.0	89.5	88.7	87.6	86.4	85.2	84.0
102.5°	113.2	113.0	112.4	111.9	111.4	110.8	110.0	109.1	108.2	107.2	106.3
105°	145.9	145.6	145.3	145.0	144.7	144.4	144.0	143.6	143.1	142.7	142.2
107.5°	181.6	181.5	181.5	181.5	181.5	181.5	181.1	180.5	179.9	179.1	178.5
110°	205.8	205.8	205.8	205.8	205.8	205.8	205.4	204.5	203.6	202.7	201.8



TEST NUMBER: P331472-940

CATALOG NUMBER: S122DIW-S290D710U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	230.3	230.7	230.8	230.9	231.0	231.1	230.8	229.9	229.0	228.1	227.2
115°	267.2	267.3	267.6	267.9	268.2	268.5	268.2	267.3	266.4	265.6	264.7
117.5°	303.3	303.6	304.4	305.2	306.0	306.8	306.7	305.5	304.3	303.2	302.0
120°	326.9	326.9	328.1	329.2	330.4	331.5	331.5	330.4	329.2	328.1	326.9
122.5°	352.0	352.3	353.1	353.9	354.7	355.6	355.3	353.8	352.5	351.1	349.6
125°	388.6	389.1	389.5	389.9	390.4	390.8	390.4	389.1	387.7	386.5	385.1
127.5°	424.3	424.8	425.3	425.9	426.4	427.0	426.3	424.6	423.0	421.3	419.6
130°	448.4	448.6	448.9	449.2	449.5	449.8	449.0	447.1	445.1	443.3	441.3
132.5°	472.3	473.0	473.0	472.9	472.8	472.8	471.9	470.4	468.9	467.3	465.7
135°	506.7	506.8	506.6	506.3	506.0	505.7	504.7	503.1	501.5	499.9	498.3
137.5°	540.1	540.2	539.8	539.5	539.0	538.7	537.8	536.5	535.2	533.9	532.5
140°	562.4	562.4	561.7	561.0	560.3	559.5	558.5	557.1	555.8	554.5	553.2
142.5°	582.6	582.6	582.0	581.6	581.0	580.6	579.6	578.4	577.0	575.7	574.4
145°	613.5	613.4	612.5	611.6	610.7	609.8	608.9	607.9	606.8	605.8	604.8
147.5°	640.4	640.2	639.5	638.9	638.4	637.8	636.9	635.6	634.4	633.1	632.0
150°	657.5	657.1	656.5	655.9	655.3	654.7	654.0	653.1	652.2	651.3	650.4
152.5°	674.6	674.0	673.3	672.6	671.9	671.2	670.4	669.5	668.6	667.7	666.8
155°	696.2	695.4	695.0	694.6	694.1	693.7	693.2	692.8	692.3	691.9	691.4
157.5°	716.0	715.1	714.8	714.5	714.3	714.0	713.7	713.4	713.1	712.8	712.5
160°	728.1	727.2	727.0	726.9	726.7	726.7	726.4	726.1	725.8	725.5	725.2
162.5°	738.8	737.8	737.6	737.5	737.4	737.2	737.1	737.0	737.0	736.9	736.8
165°	752.7	751.7	751.7	751.7	751.7	751.7	751.8	751.9	752.1	752.2	752.3
167.5°	764.2	763.2	763.2	763.2	763.3	763.3	763.6	764.0	764.5	764.9	765.4
170°	770.6	769.5	769.7	769.8	770.0	770.2	770.4	770.9	771.3	771.8	772.2
172.5°	775.3	774.3	774.5	774.6	774.7	774.9	775.2	775.6	776.1	776.5	776.9
175°	780.5	779.4	779.8	780.1	780.3	780.7	781.0	781.5	781.9	782.4	782.7
177.5°	783.2	782.5	782.7	783.0	783.2	783.5	783.7	784.1	784.4	784.8	785.2
180°	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1



TEST NUMBER: P331472-940

CATALOG NUMBER: S122DIW-S290D710U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	529.9	530.7	533.2	535.8	538.8	539.6	540.8	539.8	539.4	542.4	544.7
5°	531.4	534.9	542.1	548.6	554.0	557.9	562.0	563.6	566.6	570.8	576.1
7.5°	529.6	536.7	547.9	557.3	567.6	575.0	580.8	585.8	591.7	599.8	608.6
10°	527.7	537.2	550.8	562.3	574.9	584.4	592.3	600.0	608.9	620.1	631.6
12.5°	524.1	535.4	552.4	566.1	582.2	591.6	602.2	618.8	628.4	643.9	660.1
15°	516.9	529.5	553.2	570.0	588.3	606.1	625.7	641.5	657.3	666.5	689.3
17.5°	506.3	524.7	551.0	570.6	593.8	621.8	643.9	661.8	680.0	694.8	706.3
20°	497.7	517.7	547.8	571.2	598.8	628.9	654.2	672.5	688.3	700.7	707.8
22.5°	486.9	512.1	541.3	568.8	604.0	633.8	660.4	674.8	688.0	694.0	696.8
25°	469.8	500.2	533.2	566.8	606.5	638.1	662.4	671.1	674.9	669.1	659.3
27.5°	451.3	485.2	523.8	562.9	604.9	635.3	652.7	651.4	644.9	625.8	610.6
30°	437.6	474.8	516.3	559.1	601.2	630.8	640.9	630.8	616.0	594.8	573.0
32.5°	423.1	461.7	508.4	553.6	594.4	620.5	622.6	605.2	582.3	558.1	531.1
35°	401.3	443.0	493.5	541.3	580.0	596.4	586.7	555.8	528.7	495.7	458.8
37.5°	376.6	422.7	473.2	523.3	558.3	562.6	538.4	506.0	467.7	428.9	385.5
40°	358.1	407.0	459.1	509.4	540.5	536.0	505.2	469.6	424.0	376.6	336.3
42.5°	341.6	390.4	443.4	492.9	517.7	505.5	469.6	425.8	376.8	332.2	295.2
45°	313.0	363.2	417.5	465.3	479.5	457.4	409.8	361.1	313.0	275.7	246.6
47.5°	285.2	334.8	388.6	430.6	435.6	405.9	353.9	303.9	262.4	232.1	211.5
50°	264.7	314.6	367.8	405.4	403.7	367.8	314.4	266.8	232.1	207.6	193.9
52.5°	246.5	293.6	344.6	378.8	370.1	331.1	280.0	237.7	209.3	190.1	177.6
55°	217.9	261.5	310.1	337.5	321.6	278.3	235.1	201.2	180.0	165.7	156.0
57.5°	189.7	230.5	272.2	289.0	271.5	231.5	195.6	170.9	155.0	144.4	138.0
60°	172.2	207.9	244.9	259.5	238.6	203.0	174.6	152.6	139.7	131.1	125.4
62.5°	154.7	186.6	221.6	229.5	210.4	180.3	155.2	136.8	126.4	118.6	113.2
65°	130.8	157.0	183.5	188.8	171.2	147.8	128.0	116.1	106.7	101.1	96.8
67.5°	107.4	128.3	147.1	151.3	135.9	119.8	105.4	95.0	88.7	84.0	80.3
70°	93.4	110.0	125.4	128.9	116.5	102.1	91.1	82.8	77.1	73.1	69.6
72.5°	78.6	92.5	105.3	107.6	97.6	86.5	77.6	71.0	66.0	63.4	60.1
75°	60.2	68.3	78.2	78.8	72.1	65.5	58.6	54.3	51.6	48.4	46.8
77.5°	42.4	48.8	54.5	55.6	51.6	47.1	43.2	39.9	37.6	36.1	34.6
80°	32.4	37.5	39.9	41.3	38.5	35.2	33.0	30.8	29.3	28.4	27.4
82.5°	23.2	26.3	28.5	29.7	28.1	26.1	24.0	22.6	21.6	20.8	20.4
85°	11.8	13.2	14.6	15.0	14.6	13.7	12.6	12.6	11.9	11.8	11.8
87.5°	4.5	5.5	5.9	6.7	6.9	7.6	8.2	8.6	9.2	8.9	8.7
90°	2.4	4.2	6.0	7.8	10.3	13.5	16.7	19.9	23.2	22.8	22.6
92.5°	13.1	14.4	15.7	16.9	18.0	18.7	19.5	20.2	21.0	21.1	21.1
95°	35.8	37.4	38.8	40.3	41.2	41.5	41.7	42.1	42.4	42.4	42.4
97.5°	64.1	65.5	66.7	68.0	68.9	69.6	70.1	70.6	71.2	71.2	71.2
100°	85.2	86.4	87.6	88.7	89.5	90.0	90.4	90.9	91.3	91.3	91.3
102.5°	107.2	108.2	109.1	110.0	110.8	111.4	111.9	112.4	113.0	113.2	113.2
105°	142.7	143.1	143.6	144.0	144.4	144.7	145.0	145.3	145.6	145.9	146.2
107.5°	179.1	179.9	180.5	181.1	181.5	181.5	181.5	181.5	181.5	181.6	181.6
110°	202.7	203.6	204.5	205.4	205.8	205.8	205.8	205.8	205.8	205.8	205.8





TEST NUMBER: P331472-940

CATALOG NUMBER: S122DIW-S290D710U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	228.1	229.0	229.9	230.8	231.1	231.0	230.9	230.8	230.7	230.3	230.0
115°	265.6	266.4	267.3	268.2	268.5	268.2	267.9	267.6	267.3	267.2	267.1
117.5°	303.2	304.3	305.5	306.7	306.8	306.0	305.2	304.4	303.6	303.3	302.9
120°	328.1	329.2	330.4	331.5	331.5	330.4	329.2	328.1	326.9	326.9	326.9
122.5°	351.1	352.5	353.8	355.3	355.6	354.7	353.9	353.1	352.3	352.0	351.6
125°	386.5	387.7	389.1	390.4	390.8	390.4	389.9	389.5	389.1	388.6	388.2
127.5°	421.3	423.0	424.6	426.3	427.0	426.4	425.9	425.3	424.8	424.3	423.7
130°	443.3	445.1	447.1	449.0	449.8	449.5	449.2	448.9	448.6	448.4	448.1
132.5°	467.3	468.9	470.4	471.9	472.8	472.8	472.9	473.0	473.0	472.3	471.7
135°	499.9	501.5	503.1	504.7	505.7	506.0	506.3	506.6	506.8	506.7	506.6
137.5°	533.9	535.2	536.5	537.8	538.7	539.0	539.5	539.8	540.2	540.1	539.9
140°	554.5	555.8	557.1	558.5	559.5	560.3	561.0	561.7	562.4	562.4	562.4
142.5°	575.7	577.0	578.4	579.6	580.6	581.0	581.6	582.0	582.6	582.6	582.8
145°	605.8	606.8	607.9	608.9	609.8	610.7	611.6	612.5	613.4	613.5	613.7
147.5°	633.1	634.4	635.6	636.9	637.8	638.4	638.9	639.5	640.2	640.4	640.8
150°	651.3	652.2	653.1	654.0	654.7	655.3	655.9	656.5	657.1	657.5	657.9
152.5°	667.7	668.6	669.5	670.4	671.2	671.9	672.6	673.3	674.0	674.6	675.1
155°	691.9	692.3	692.8	693.2	693.7	694.1	694.6	695.0	695.4	696.2	696.9
157.5°	712.8	713.1	713.4	713.7	714.0	714.3	714.5	714.8	715.1	716.0	717.0
160°	725.5	725.8	726.1	726.4	726.7	726.7	726.9	727.0	727.2	728.1	729.0
162.5°	736.9	737.0	737.0	737.1	737.2	737.4	737.5	737.6	737.8	738.8	739.8
165°	752.2	752.1	751.9	751.8	751.7	751.7	751.7	751.7	751.7	752.7	753.8
167.5°	764.9	764.5	764.0	763.6	763.3	763.3	763.2	763.2	763.2	764.2	765.3
170°	771.8	771.3	770.9	770.4	770.2	770.0	769.8	769.7	769.5	770.6	771.6
172.5°	776.5	776.1	775.6	775.2	774.9	774.7	774.6	774.5	774.3	775.3	776.4
175°	782.4	781.9	781.5	781.0	780.7	780.3	780.1	779.8	779.4	780.5	781.5
177.5°	784.8	784.4	784.1	783.7	783.5	783.2	783.0	782.7	782.5	783.2	783.9
180°	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	546.7	548.9	548.9	549.3	551.9	551.5	551.3
5°	581.8	585.2	585.6	589.2	591.7	590.8	588.6
7.5°	614.8	621.3	626.2	628.8	632.0	634.0	633.1
10°	641.1	650.4	656.1	660.0	664.6	668.1	666.8
12.5°	664.9	676.0	683.9	690.5	691.0	695.4	692.4
15°	702.1	713.8	715.1	719.9	723.8	723.4	723.5
17.5°	714.3	718.1	718.9	719.0	719.1	717.6	714.5
20°	710.0	708.6	705.2	702.5	697.9	697.2	693.2
22.5°	689.2	684.7	676.1	670.4	663.2	661.3	660.1
25°	648.5	638.5	624.7	611.5	607.9	600.8	602.8
27.5°	592.4	576.9	562.0	551.3	541.6	531.0	534.0
30°	553.0	535.6	514.5	498.3	487.9	477.9	476.0
32.5°	506.0	480.5	457.0	442.7	426.9	420.4	413.5
35°	425.0	400.0	376.7	356.7	345.2	336.3	328.1
37.5°	352.1	323.4	304.6	288.4	280.0	274.9	276.3
40°	306.9	281.8	268.0	255.7	247.9	244.3	245.1
42.5°	270.3	251.5	240.1	231.7	226.2	224.2	223.7
45°	228.7	218.2	208.8	204.0	201.3	199.1	197.7
47.5°	200.4	191.7	186.5	183.6	181.3	179.1	179.0
50°	183.3	177.6	174.0	170.9	169.2	167.6	169.0
52.5°	170.3	165.1	161.5	158.8	158.1	156.7	156.6
55°	151.1	147.0	144.5	142.0	140.8	140.0	138.9
57.5°	133.6	129.7	127.3	125.8	123.5	122.7	122.3
60°	121.1	118.1	115.7	113.6	112.6	111.0	111.0
62.5°	109.6	106.6	104.3	102.8	101.1	100.5	100.7
65°	93.0	90.5	88.3	86.7	86.3	85.1	85.5
67.5°	77.7	76.1	73.7	72.8	72.1	71.4	70.9
70°	67.4	65.8	64.6	63.4	62.8	62.8	62.8
72.5°	58.9	56.9	56.2	54.7	55.0	54.4	53.7
75°	45.6	44.3	43.8	43.2	42.2	42.2	42.2
77.5°	33.5	33.2	32.5	31.8	31.6	31.4	31.5
80°	25.9	25.7	25.3	25.3	24.9	24.7	24.3
82.5°	20.0	19.4	19.2	19.0	18.9	18.9	18.8
85°	11.3	11.0	11.0	11.1	10.7	10.7	11.0
87.5°	8.8	8.7	8.6	8.6	8.8	8.6	8.7
90°	22.3	22.0	21.9	22.0	22.2	22.4	22.5
92.5°	21.2	21.3	21.3	21.3	21.4	21.4	21.4
95°	42.4	42.4	42.2	41.9	41.6	41.3	41.0
97.5°	71.2	71.2	71.2	71.2	71.2	71.1	71.1
100°	91.3	91.3	91.2	91.1	91.0	90.8	90.7
102.5°	113.3	113.5	113.5	113.3	113.2	113.1	112.9
105°	146.4	146.8	146.9	146.9	146.9	146.9	146.9
107.5°	181.8	181.9	181.6	180.9	180.3	179.6	179.0
110°	205.8	205.8	205.5	205.1	204.6	204.2	203.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	229.6	229.3	228.9	228.6	228.3	227.9	227.7
115°	266.9	266.7	266.4	266.0	265.6	265.1	264.7
117.5°	302.6	302.2	301.8	301.3	300.9	300.4	300.0
120°	326.9	326.9	326.6	326.2	325.7	325.3	324.9
122.5°	351.2	350.9	350.5	350.2	349.9	349.6	349.3
125°	387.7	387.3	387.0	386.9	386.7	386.6	386.5
127.5°	423.2	422.7	422.2	421.7	421.2	420.8	420.4
130°	447.7	447.5	447.0	446.4	445.9	445.2	444.7
132.5°	471.0	470.4	469.8	469.4	468.9	468.4	468.0
135°	506.4	506.3	506.0	505.5	505.1	504.6	504.2
137.5°	539.8	539.8	539.4	538.8	538.2	537.6	537.0
140°	562.4	562.4	562.1	561.6	561.0	560.4	559.8
142.5°	582.9	583.0	582.8	582.2	581.6	581.0	580.4
145°	613.9	613.9	613.8	613.1	612.6	612.0	611.4
147.5°	641.1	641.4	641.3	640.8	640.2	639.6	639.1
150°	658.4	658.8	658.8	658.4	657.9	657.5	657.1
152.5°	675.6	676.3	676.3	675.6	675.1	674.6	674.0
155°	697.7	698.4	698.6	698.1	697.7	697.2	696.8
157.5°	718.0	719.0	719.2	718.5	717.7	717.0	716.3
160°	729.9	730.8	730.8	730.3	729.7	729.2	728.5
162.5°	740.8	741.8	741.9	741.2	740.6	739.9	739.1
165°	754.7	755.8	756.0	755.2	754.5	753.8	753.0
167.5°	766.2	767.3	767.4	766.7	765.9	765.2	764.4
170°	772.7	773.6	773.7	772.8	772.0	771.1	770.2
172.5°	777.4	778.5	778.5	777.7	776.8	775.9	775.0
175°	782.6	783.6	783.6	782.7	781.9	781.0	780.2
177.5°	784.6	785.3	785.3	784.6	783.9	783.2	782.5
180°	784.1	784.1	784.1	784.1	784.1	784.1	784.1

(END OF REPORT)