

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: P331478-930

Luminaire Tested: **S122DIW-S290D970U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331478-930  
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-S290D970U930-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 970 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3803.3 lumens  
Efficiency: N/A  
Efficacy: 100.1 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: Semi-Indirect

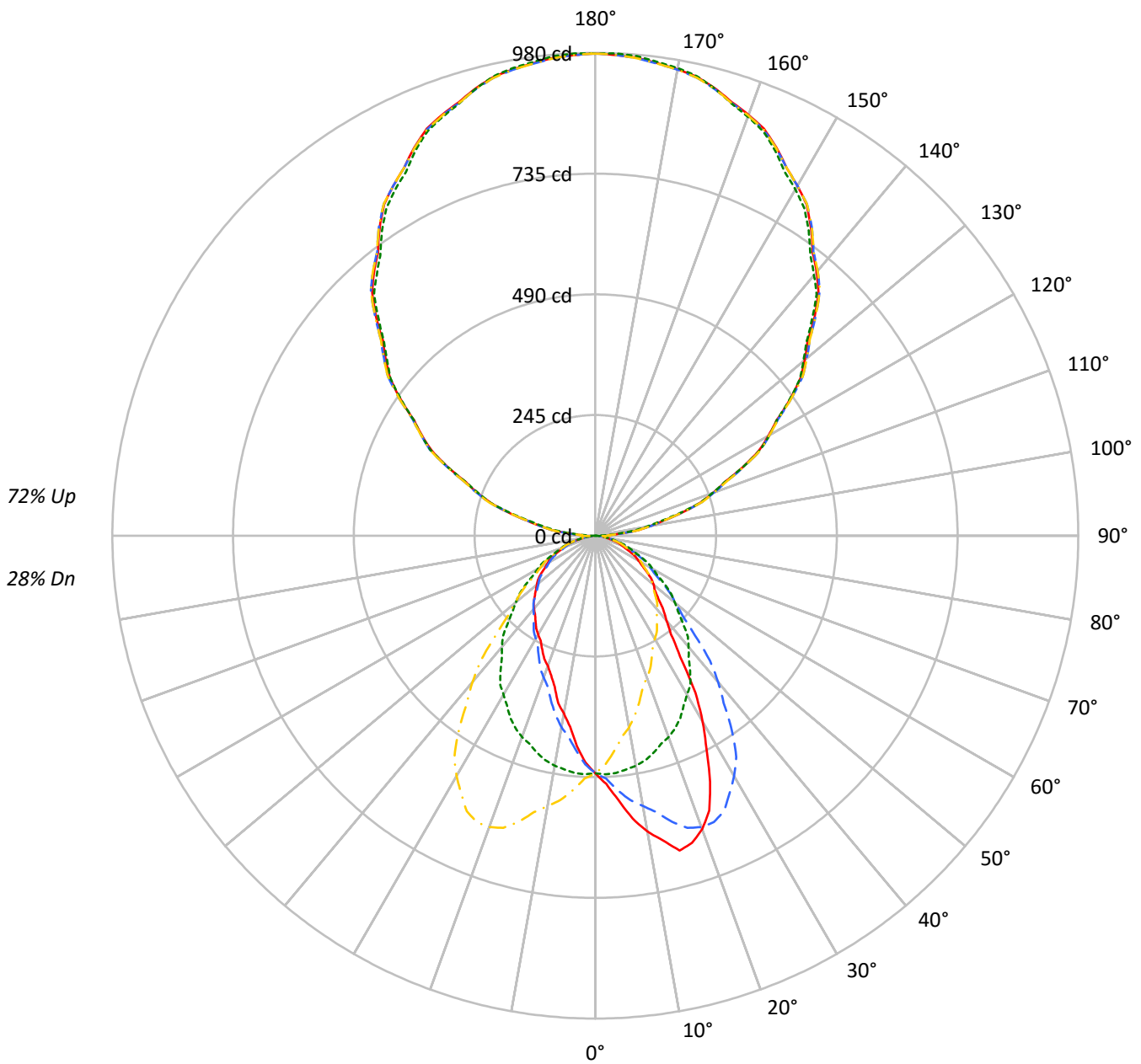
Input Watts (W): 38  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331478-930

CATALOG NUMBER: S122DIW-S290D970U930-4F0-1E-UDD-A1

### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - · - · 90°-270°    - · - · 135°-315°



TEST NUMBER: P331478-930

CATALOG NUMBER: S122DIW-S290D970U930-4F0-1E-UDD-A1

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

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	77	74	63	61	59	47	45	44	32	31	31	24
2	85	78	72	67	76	70	65	61	55	52	49	41	39	37	29	27	26	21
3	78	69	62	56	69	62	56	51	49	45	41	37	34	32	26	24	23	18
4	71	61	53	48	63	55	48	44	43	39	35	33	30	27	23	21	20	15
5	65	54	47	41	58	49	42	37	39	34	31	30	26	24	21	19	17	14
6	60	49	41	35	54	44	37	32	35	30	27	27	23	21	19	17	15	12
7	55	44	36	31	50	40	33	28	32	27	23	24	21	19	17	15	14	11
8	51	40	32	27	46	36	30	25	29	24	21	22	19	17	16	14	12	10
9	48	36	29	24	43	33	27	22	26	22	19	20	17	15	15	13	11	9
10	45	33	26	22	40	30	24	20	24	20	17	19	16	13	14	12	10	8

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

	0°	90°	180°	270°
0°	7781	7781	7781	7781
5°	8723	7831	6940	7831
10°	9996	7768	6005	7768
15°	11057	7626	5307	7626
20°	10890	7472	4837	7472
25°	9818	7269	4541	7269
30°	8114	6943	4323	6943
35°	5913	6603	4169	6603
40°	4723	6203	4083	6203
45°	4128	5740	3966	5740
50°	3881	5290	3888	5290
55°	3575	4833	3783	4833
60°	3278	4346	3626	4346
65°	2988	3912	3465	3912
70°	2710	3489	3238	3489
75°	2408	3013	2863	3013
80°	2073	2492	2306	2492
85°	1853	1853	1371	1853



TEST NUMBER: P331478-930

CATALOG NUMBER: S122DIW-S290D970U930-4F0-1E-UDD-A1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.9	1.2
10°-20°	133.4	3.5
20°-30°	193.6	5.1
30°-40°	204.3	5.4
40°-50°	180.9	4.8
50°-60°	144.4	3.8
60°-70°	98.1	2.6
70°-80°	50.3	1.3
80°-90°	16.0	0.4
90°-100°	62.0	1.6
100°-110°	192.6	5.1
110°-120°	329.2	8.7
120°-130°	432.9	11.4
130°-140°	485.9	12.8
140°-150°	476.4	12.5
150°-160°	399.6	10.5
160°-170°	265.0	7.0
170°-180°	92.6	2.4
0°-30°	373.0	9.8
0°-40°	577.3	15.2
0°-60°	902.6	23.7
0°-90°	1067.1	28.1
90°-120°	583.8	15.3
90°-150°	1979.0	52.0
90°-180°	2736.0	71.9
0°-180°	3803.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	482	482	482	482	482	
5°	538	483	428	483	538	54
15°	662	456	318	456	662	183
25°	551	408	255	408	551	249
35°	300	335	212	335	300	195
45°	181	251	174	251	181	142
55°	127	172	134	172	127	114
65°	78	102	91	102	78	78
75°	39	48	46	48	39	41
85°	10	10	7	10	10	12
90°	28	1	28	1	28	13
95°	51	43	51	43	51	57
105°	183	178	183	178	183	193
115°	330	330	330	330	330	326
125°	482	481	482	481	482	430
135°	629	622	629	622	629	484
145°	763	755	763	755	763	476
155°	870	863	870	863	870	400
165°	940	939	940	939	940	265
175°	974	977	974	977	974	92
180°	978	978	978	978	978	



TEST NUMBER: P331478-930

CATALOG NUMBER: S122DIW-S290D970U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	504.1	504.3	504.6	502.2	501.9	501.9	499.9	498.1	495.9	493.2	493.5
5°	538.2	540.2	541.0	538.7	535.4	535.1	531.9	526.8	521.9	518.0	515.3
7.5°	578.9	579.7	577.9	574.9	572.5	568.0	562.1	556.4	548.4	541.0	535.6
10°	609.7	610.8	607.6	603.4	599.9	594.7	586.2	577.5	567.0	556.8	548.6
12.5°	633.1	635.9	631.8	631.3	625.3	618.1	608.0	603.6	588.7	574.5	565.7
15°	661.5	661.4	661.8	658.2	653.8	652.6	642.0	630.2	609.4	601.0	586.5
17.5°	653.3	656.2	657.5	657.4	657.3	656.6	653.1	645.8	635.3	621.7	605.1
20°	633.8	637.5	638.1	642.3	644.7	647.8	649.1	647.1	640.7	629.3	614.9
22.5°	603.6	604.6	606.3	612.9	618.2	626.1	630.1	637.1	634.5	629.0	616.9
25°	551.1	549.3	555.8	559.1	571.2	583.8	592.9	602.8	611.7	617.1	613.6
27.5°	488.3	485.5	495.2	504.1	513.8	527.5	541.6	558.3	572.2	589.6	595.6
30°	435.2	436.9	446.1	455.6	470.4	489.7	505.6	523.9	543.8	563.2	576.7
32.5°	378.1	384.4	390.3	404.8	417.8	439.3	462.7	485.6	510.3	532.4	553.3
35°	300.0	307.4	315.6	326.1	344.5	365.7	388.6	419.5	453.2	483.4	508.2
37.5°	252.6	251.4	256.0	263.7	278.5	295.7	322.0	352.5	392.2	427.6	462.7
40°	224.1	223.4	226.7	233.7	245.0	257.6	280.6	307.4	344.3	387.7	429.3
42.5°	204.6	205.0	206.8	211.8	219.6	229.9	247.1	269.9	303.7	344.5	389.3
45°	180.8	182.1	184.1	186.5	190.9	199.5	209.1	225.4	252.1	286.2	330.2
47.5°	163.6	163.7	165.8	167.9	170.5	175.3	183.2	193.4	212.2	239.9	277.9
50°	154.5	153.2	154.7	156.3	159.1	162.4	167.6	177.2	189.8	212.2	243.9
52.5°	143.2	143.2	144.6	145.2	147.7	151.0	155.7	162.4	173.8	191.4	217.4
55°	127.0	128.0	128.7	129.8	132.1	134.4	138.2	142.6	151.5	164.6	183.9
57.5°	111.9	112.2	112.9	115.0	116.4	118.6	122.1	126.2	132.0	141.7	156.2
60°	101.5	101.5	103.0	103.9	105.7	107.9	110.7	114.6	119.8	127.8	139.5
62.5°	92.0	91.9	92.5	94.0	95.4	97.4	100.2	103.5	108.4	115.5	125.1
65°	78.2	77.8	78.9	79.2	80.7	82.8	85.0	88.5	92.5	97.6	106.2
67.5°	64.8	65.3	65.9	66.5	67.3	69.5	71.0	73.5	76.8	81.1	86.8
70°	57.4	57.4	57.4	58.0	59.1	60.2	61.6	63.7	66.9	70.5	75.7
72.5°	49.1	49.7	50.3	50.0	51.4	52.0	53.8	55.0	58.0	60.3	64.9
75°	38.6	38.6	38.6	39.5	40.0	40.5	41.7	42.8	44.3	47.2	49.7
77.5°	28.8	28.7	28.9	29.1	29.7	30.3	30.7	31.6	33.0	34.4	36.4
80°	22.3	22.6	22.7	23.2	23.2	23.5	23.7	25.0	25.9	26.8	28.1
82.5°	17.2	17.3	17.3	17.4	17.5	17.8	18.3	18.7	19.0	19.7	20.7
85°	10.0	9.8	9.8	10.2	10.0	10.0	10.4	10.8	10.8	10.9	11.5
87.5°	9.5	9.5	9.5	9.4	9.3	9.5	9.5	9.5	9.7	9.9	9.3
90°	28.0	27.9	27.7	27.6	27.3	27.4	27.8	28.1	28.5	28.9	24.9
92.5°	26.7	26.7	26.7	26.7	26.6	26.6	26.5	26.4	26.3	26.3	25.3
95°	51.2	51.5	51.9	52.3	52.7	52.8	52.8	52.8	52.8	52.8	52.5
97.5°	88.7	88.7	88.8	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.1
100°	113.2	113.3	113.5	113.7	113.9	114.0	114.0	114.0	114.0	114.0	113.4
102.5°	140.9	141.0	141.2	141.5	141.6	141.6	141.5	141.4	141.2	141.0	140.3
105°	183.4	183.4	183.4	183.4	183.4	183.1	182.8	182.4	182.1	181.6	181.3
107.5°	223.3	224.1	224.9	225.8	226.7	227.0	226.9	226.7	226.6	226.4	226.4
110°	254.4	254.9	255.4	256.0	256.6	256.8	256.8	256.8	256.8	256.8	256.8



TEST NUMBER: P331478-930

CATALOG NUMBER: S122DIW-S290D970U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	284.1	284.5	284.9	285.3	285.7	286.1	286.6	287.0	287.4	287.9	288.0
115°	330.3	330.8	331.4	332.0	332.5	332.9	333.0	333.2	333.5	333.6	333.9
117.5°	374.4	375.0	375.5	376.1	376.6	377.1	377.6	378.0	378.5	378.9	379.9
120°	405.4	406.0	406.6	407.1	407.6	408.0	408.0	408.0	408.0	408.0	409.4
122.5°	435.9	436.3	436.7	437.1	437.5	437.9	438.3	438.8	439.2	439.6	440.7
125°	482.2	482.4	482.7	482.8	483.0	483.4	483.9	484.5	485.0	485.6	486.1
127.5°	524.6	525.1	525.7	526.3	526.8	527.5	528.2	528.8	529.5	530.2	530.8
130°	554.9	555.6	556.4	557.1	557.8	558.4	558.8	559.1	559.5	559.9	560.3
132.5°	584.0	584.6	585.1	585.8	586.4	587.0	587.8	588.6	589.5	590.3	590.2
135°	629.2	629.8	630.3	630.9	631.4	631.8	632.0	632.2	632.3	632.5	632.2
137.5°	670.2	670.9	671.6	672.4	673.1	673.6	673.8	673.8	674.0	674.2	673.7
140°	698.6	699.4	700.1	700.8	701.6	701.9	701.9	701.9	701.9	701.9	701.0
142.5°	724.4	725.1	725.9	726.6	727.3	727.6	727.5	727.3	727.2	727.0	726.4
145°	763.0	763.8	764.5	765.2	766.0	766.2	766.1	765.9	765.6	765.5	764.4
147.5°	797.5	798.3	798.9	799.6	800.3	800.5	800.1	799.6	799.2	798.8	798.1
150°	820.0	820.5	821.1	821.7	822.2	822.2	821.7	821.1	820.5	820.0	819.3
152.5°	841.1	841.8	842.5	843.3	843.9	843.9	843.3	842.5	841.8	841.1	840.2
155°	869.5	870.1	870.7	871.2	871.7	871.6	870.7	869.8	868.8	867.9	867.3
157.5°	894.0	894.9	895.8	896.7	897.5	897.3	896.1	894.9	893.6	892.3	892.0
160°	909.2	910.0	910.7	911.4	912.2	911.9	910.9	909.7	908.7	907.5	907.3
162.5°	922.4	923.2	924.1	925.0	925.9	925.8	924.5	923.2	922.0	920.7	920.6
165°	939.7	940.7	941.6	942.5	943.4	943.2	941.9	940.7	939.4	938.1	938.1
167.5°	954.0	954.9	955.9	956.8	957.7	957.6	956.3	955.0	953.7	952.4	952.5
170°	961.2	962.3	963.4	964.5	965.6	965.6	964.3	963.0	961.6	960.4	960.6
172.5°	967.2	968.2	969.4	970.5	971.6	971.4	970.2	968.9	967.6	966.3	966.5
175°	973.6	974.7	975.8	976.9	978.0	977.9	976.6	975.3	974.0	972.7	973.1
177.5°	976.6	977.5	978.4	979.2	980.1	980.1	979.2	978.4	977.5	976.6	976.9
180°	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5



TEST NUMBER: P331478-930

CATALOG NUMBER: S122DIW-S290D970U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	494.5	493.3	492.6	489.9	487.5	485.2	484.5	484.7	481.4	478.3	477.0
5°	513.8	510.1	506.5	501.6	495.6	489.1	485.8	483.2	476.7	469.7	465.6
7.5°	531.0	525.7	518.9	509.6	500.9	490.7	484.2	478.5	469.0	459.1	453.0
10°	541.5	534.3	525.6	514.1	503.6	491.1	482.5	473.8	462.7	450.8	443.4
12.5°	550.6	540.9	532.3	517.6	505.1	489.5	479.2	466.9	455.3	441.2	433.9
15°	572.1	554.2	537.9	521.1	505.8	484.1	472.6	456.2	440.8	423.4	415.1
17.5°	588.7	568.5	542.9	521.7	503.8	479.7	462.9	443.2	425.0	405.1	393.8
20°	598.2	575.0	547.5	522.3	500.8	473.4	455.0	434.9	413.6	391.2	379.0
22.5°	603.8	579.5	552.2	520.1	494.9	468.2	445.2	423.0	401.5	377.2	364.4
25°	605.6	583.4	554.5	518.2	487.5	457.3	429.5	408.0	381.9	359.3	340.6
27.5°	596.8	580.9	553.1	514.7	478.9	443.6	412.6	388.3	360.8	336.2	317.4
30°	586.0	576.7	549.7	511.2	472.1	434.1	400.1	372.4	345.0	320.2	300.9
32.5°	569.2	567.3	543.5	506.1	464.8	422.2	386.9	359.0	328.6	304.2	285.8
35°	536.4	545.3	530.3	494.9	451.2	405.0	366.9	335.0	303.5	280.2	263.0
37.5°	492.3	514.4	510.5	478.4	432.7	386.5	344.3	311.0	281.0	257.5	240.6
40°	461.9	490.1	494.2	465.8	419.7	372.1	327.4	294.3	265.1	243.5	226.5
42.5°	429.3	462.2	473.4	450.7	405.4	356.9	312.3	278.0	249.0	228.1	213.0
45°	374.7	418.2	438.4	425.4	381.7	332.1	286.2	251.4	225.0	205.4	193.7
47.5°	323.6	371.1	398.3	393.7	355.3	306.1	260.7	227.3	201.7	186.1	175.6
50°	287.5	336.3	369.1	370.6	336.3	287.6	242.1	210.6	187.0	172.4	163.9
52.5°	256.0	302.7	338.4	346.3	315.1	268.4	225.3	194.0	173.3	159.8	152.2
55°	215.0	254.5	294.1	308.6	283.6	239.1	199.3	171.7	152.2	143.0	136.3
57.5°	178.8	211.7	248.3	264.2	248.8	210.8	173.4	149.4	133.7	125.6	120.4
60°	159.6	185.6	218.2	237.3	223.9	190.0	157.4	134.6	121.6	114.5	109.7
62.5°	141.9	164.9	192.4	209.9	202.6	170.6	141.5	121.3	110.1	103.4	99.9
65°	117.1	135.2	156.5	172.6	167.8	143.6	119.6	102.4	93.5	88.1	85.4
67.5°	96.4	109.5	124.3	138.4	134.5	117.3	98.2	84.7	78.1	73.5	71.7
70°	83.3	93.4	106.5	117.8	114.6	100.6	85.4	73.9	68.2	64.2	62.6
72.5°	70.9	79.1	89.2	98.4	96.3	84.5	71.9	63.3	58.8	55.2	53.9
75°	53.6	59.8	66.0	72.1	71.5	62.5	55.0	48.3	44.8	42.1	41.5
77.5°	39.5	43.0	47.2	50.8	49.8	44.6	38.8	35.0	32.4	30.6	30.2
80°	30.2	32.2	35.2	37.7	36.5	34.2	29.6	26.8	25.0	23.2	22.4
82.5°	21.9	23.9	25.7	27.1	26.1	24.1	21.2	19.3	18.2	17.0	16.6
85°	11.5	12.6	13.4	13.7	13.4	12.1	10.8	10.0	9.0	8.5	8.3
87.5°	8.6	7.8	7.0	6.7	5.8	5.4	4.3	3.4	3.8	4.0	4.2
90°	20.8	16.8	12.7	9.6	7.4	5.2	3.0	0.8	3.0	5.2	7.4
92.5°	24.4	23.4	22.4	21.2	19.6	17.9	16.3	14.7	16.3	17.9	19.6
95°	52.1	51.8	51.4	50.3	48.4	46.6	44.8	43.0	44.8	46.6	48.4
97.5°	87.5	86.7	86.1	84.9	83.3	81.7	80.1	78.4	80.1	81.7	83.3
100°	112.8	112.3	111.8	110.7	109.3	107.8	106.3	104.8	106.3	107.8	109.3
102.5°	139.7	138.9	138.3	137.3	136.2	134.9	133.8	132.6	133.8	134.9	136.2
105°	180.9	180.6	180.2	179.8	179.2	178.6	178.1	177.6	178.1	178.6	179.2
107.5°	226.4	226.4	226.4	226.0	225.2	224.4	223.6	222.8	223.6	224.4	225.2
110°	256.8	256.8	256.8	256.2	255.2	254.0	253.0	251.8	253.0	254.0	255.2





TEST NUMBER: P331478-930

CATALOG NUMBER: S122DIW-S290D970U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	288.1	288.3	288.5	288.0	286.9	285.8	284.7	283.6	284.7	285.8	286.9
115°	334.4	334.7	335.1	334.7	333.6	332.5	331.4	330.3	331.4	332.5	333.6
117.5°	380.9	382.0	382.9	382.8	381.3	379.8	378.4	376.9	378.4	379.8	381.3
120°	410.9	412.4	413.8	413.8	412.4	410.9	409.4	408.0	409.4	410.9	412.4
122.5°	441.7	442.7	443.8	443.4	441.6	439.9	438.1	436.3	438.1	439.9	441.6
125°	486.7	487.2	487.8	487.2	485.6	483.9	482.2	480.6	482.2	483.9	485.6
127.5°	531.5	532.1	532.8	532.1	530.0	527.9	525.8	523.7	525.8	527.9	530.0
130°	560.6	561.0	561.3	560.4	558.0	555.5	553.2	550.8	553.2	555.5	558.0
132.5°	590.1	590.0	590.0	589.0	587.0	585.1	583.1	581.1	583.1	585.1	587.0
135°	631.8	631.4	631.0	629.9	627.9	625.8	623.9	621.8	623.9	625.8	627.9
137.5°	673.2	672.7	672.3	671.2	669.5	667.9	666.3	664.6	666.3	667.9	669.5
140°	700.1	699.2	698.2	696.9	695.3	693.7	692.0	690.3	692.0	693.7	695.3
142.5°	725.8	725.1	724.6	723.4	721.7	720.1	718.4	716.8	718.4	720.1	721.7
145°	763.3	762.2	761.1	759.9	758.6	757.3	756.0	754.7	756.0	757.3	758.6
147.5°	797.4	796.6	795.9	794.8	793.2	791.7	790.2	788.6	790.2	791.7	793.2
150°	818.6	817.8	817.1	816.1	815.1	813.9	812.9	811.7	812.9	813.9	815.1
152.5°	839.4	838.5	837.6	836.7	835.5	834.5	833.3	832.3	833.3	834.5	835.5
155°	866.8	866.3	865.7	865.1	864.6	864.1	863.5	862.9	863.5	864.1	864.6
157.5°	891.7	891.4	891.0	890.6	890.3	889.9	889.6	889.2	889.6	889.9	890.3
160°	907.2	907.0	906.8	906.5	906.1	905.8	905.4	905.1	905.4	905.8	906.1
162.5°	920.4	920.2	920.0	919.9	919.8	919.7	919.7	919.6	919.7	919.7	919.8
165°	938.1	938.1	938.1	938.2	938.3	938.6	938.7	938.9	938.7	938.6	938.3
167.5°	952.5	952.6	952.6	952.9	953.4	954.0	954.6	955.1	954.6	954.0	953.4
170°	960.7	960.9	961.2	961.5	962.1	962.6	963.1	963.7	963.1	962.6	962.1
172.5°	966.7	966.9	967.0	967.4	968.0	968.5	969.1	969.6	969.1	968.5	968.0
175°	973.5	973.9	974.2	974.7	975.3	975.8	976.3	976.9	976.3	975.8	975.3
177.5°	977.1	977.5	977.7	978.1	978.5	979.0	979.4	979.9	979.4	979.0	978.5
180°	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5



TEST NUMBER: P331478-930

CATALOG NUMBER: S122DIW-S290D970U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	475.6	474.7	471.6	469.9	467.2	464.7	463.1	463.8	464.4	464.1	463.7
5°	461.9	458.4	453.0	448.4	445.1	439.0	436.3	435.0	433.9	432.7	431.4
7.5°	445.6	440.1	432.4	425.8	419.6	412.0	407.6	405.1	402.4	399.5	396.9
10°	434.1	426.3	418.2	409.0	401.5	394.7	388.6	384.5	380.7	377.2	374.7
12.5°	422.0	413.0	402.9	390.3	382.1	372.3	371.4	364.2	358.4	356.2	353.2
15°	402.7	390.0	377.2	362.2	355.8	346.9	341.4	335.7	330.8	327.3	326.4
17.5°	380.7	364.4	351.6	340.9	330.3	321.1	316.0	311.6	307.4	302.8	302.1
20°	363.9	349.8	336.0	326.5	315.6	306.3	300.0	295.6	292.0	289.3	286.9
22.5°	348.1	332.6	319.9	309.7	298.9	291.4	286.4	282.1	279.2	276.1	273.9
25°	322.6	310.6	296.7	285.0	276.1	271.3	267.3	263.6	261.7	259.7	257.1
27.5°	300.4	287.0	274.0	265.0	257.1	252.9	250.0	247.4	245.7	244.5	243.0
30°	284.7	271.2	261.0	252.1	245.6	241.3	239.5	238.0	235.9	235.2	234.5
32.5°	269.5	257.4	248.7	240.9	234.8	232.0	230.3	228.9	227.4	226.7	225.1
35°	248.2	238.0	229.5	225.2	220.2	217.8	216.5	214.7	213.2	212.5	212.2
37.5°	228.0	219.2	213.6	208.1	206.0	204.6	202.8	201.5	201.1	201.0	200.7
40°	215.0	207.8	202.8	198.4	197.5	195.2	193.7	192.7	192.7	192.8	192.7
42.5°	203.2	196.7	192.2	188.4	187.4	186.1	184.5	184.5	184.7	185.4	184.7
45°	185.2	180.6	177.4	175.6	173.6	172.3	172.0	172.6	172.8	173.0	173.6
47.5°	168.7	165.6	162.7	160.7	159.8	159.6	159.4	160.4	161.3	161.6	162.4
50°	158.9	155.4	153.0	151.6	150.9	150.6	150.9	152.1	152.8	153.7	154.3
52.5°	148.0	145.4	143.8	142.8	142.5	142.8	142.8	144.1	145.2	145.6	145.9
55°	132.8	130.9	130.6	128.9	129.6	129.5	130.4	131.1	132.2	133.4	133.5
57.5°	117.6	116.2	115.2	115.4	115.6	116.4	117.2	118.5	119.6	120.8	120.9
60°	107.6	106.9	106.3	106.3	106.6	107.8	108.7	110.0	110.7	111.5	112.0
62.5°	98.4	97.7	97.1	97.4	98.4	99.1	100.1	100.9	101.6	102.3	102.6
65°	83.9	83.6	84.1	84.5	84.6	85.5	86.8	87.4	88.1	88.5	89.8
67.5°	70.5	70.6	70.5	71.0	72.2	72.3	73.5	74.8	75.0	75.7	76.6
70°	61.5	61.9	62.2	62.6	63.5	63.9	64.8	65.4	66.1	66.7	67.3
72.5°	53.2	53.2	53.6	53.6	54.4	55.1	55.9	56.5	57.2	58.0	58.5
75°	40.9	40.9	41.3	41.5	42.4	43.4	43.1	43.5	44.3	45.0	45.4
77.5°	29.9	29.5	29.9	30.1	30.4	31.1	31.3	31.8	32.7	32.4	32.9
80°	22.7	22.3	22.7	23.0	23.0	23.9	23.9	24.3	24.8	24.3	24.8
82.5°	16.2	16.0	16.4	16.5	16.7	16.8	17.0	17.1	17.7	17.4	17.7
85°	8.2	8.0	8.2	8.0	8.2	8.3	8.3	8.2	8.2	8.5	8.0
87.5°	4.5	4.9	5.5	6.4	7.0	7.7	7.5	7.4	7.3	6.9	6.9
90°	9.6	12.7	16.8	20.8	24.9	28.9	28.5	28.1	27.8	27.4	27.3
92.5°	21.2	22.4	23.4	24.4	25.3	26.3	26.3	26.4	26.5	26.6	26.6
95°	50.3	51.4	51.8	52.1	52.5	52.8	52.8	52.8	52.8	52.8	52.7
97.5°	84.9	86.1	86.7	87.5	88.1	88.9	88.9	88.9	88.9	88.9	88.9
100°	110.7	111.8	112.3	112.8	113.4	114.0	114.0	114.0	114.0	114.0	113.9
102.5°	137.3	138.3	138.9	139.7	140.3	141.0	141.2	141.4	141.5	141.6	141.6
105°	179.8	180.2	180.6	180.9	181.3	181.6	182.1	182.4	182.8	183.1	183.4
107.5°	226.0	226.4	226.4	226.4	226.4	226.4	226.6	226.7	226.9	227.0	226.7
110°	256.2	256.8	256.8	256.8	256.8	256.8	256.8	256.8	256.8	256.8	256.6



TEST NUMBER: P331478-930

CATALOG NUMBER: S122DIW-S290D970U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	288.0	288.5	288.3	288.1	288.0	287.9	287.4	287.0	286.6	286.1	285.7
115°	334.7	335.1	334.7	334.4	333.9	333.6	333.5	333.2	333.0	332.9	332.5
117.5°	382.8	382.9	382.0	380.9	379.9	378.9	378.5	378.0	377.6	377.1	376.6
120°	413.8	413.8	412.4	410.9	409.4	408.0	408.0	408.0	408.0	408.0	407.6
122.5°	443.4	443.8	442.7	441.7	440.7	439.6	439.2	438.8	438.3	437.9	437.5
125°	487.2	487.8	487.2	486.7	486.1	485.6	485.0	484.5	483.9	483.4	483.0
127.5°	532.1	532.8	532.1	531.5	530.8	530.2	529.5	528.8	528.2	527.5	526.8
130°	560.4	561.3	561.0	560.6	560.3	559.9	559.5	559.1	558.8	558.4	557.8
132.5°	589.0	590.0	590.0	590.1	590.2	590.3	589.5	588.6	587.8	587.0	586.4
135°	629.9	631.0	631.4	631.8	632.2	632.5	632.3	632.2	632.0	631.8	631.4
137.5°	671.2	672.3	672.7	673.2	673.7	674.2	674.0	673.8	673.8	673.6	673.1
140°	696.9	698.2	699.2	700.1	701.0	701.9	701.9	701.9	701.9	701.9	701.6
142.5°	723.4	724.6	725.1	725.8	726.4	727.0	727.2	727.3	727.5	727.6	727.3
145°	759.9	761.1	762.2	763.3	764.4	765.5	765.6	765.9	766.1	766.2	766.0
147.5°	794.8	795.9	796.6	797.4	798.1	798.8	799.2	799.6	800.1	800.5	800.3
150°	816.1	817.1	817.8	818.6	819.3	820.0	820.5	821.1	821.7	822.2	822.2
152.5°	836.7	837.6	838.5	839.4	840.2	841.1	841.8	842.5	843.3	843.9	843.9
155°	865.1	865.7	866.3	866.8	867.3	867.9	868.8	869.8	870.7	871.6	871.7
157.5°	890.6	891.0	891.4	891.7	892.0	892.3	893.6	894.9	896.1	897.3	897.5
160°	906.5	906.8	907.0	907.2	907.3	907.5	908.7	909.7	910.9	911.9	912.2
162.5°	919.9	920.0	920.2	920.4	920.6	920.7	922.0	923.2	924.5	925.8	925.9
165°	938.2	938.1	938.1	938.1	938.1	938.1	939.4	940.7	941.9	943.2	943.4
167.5°	952.9	952.6	952.6	952.5	952.5	952.4	953.7	955.0	956.3	957.6	957.7
170°	961.5	961.2	960.9	960.7	960.6	960.4	961.6	963.0	964.3	965.6	965.6
172.5°	967.4	967.0	966.9	966.7	966.5	966.3	967.6	968.9	970.2	971.4	971.6
175°	974.7	974.2	973.9	973.5	973.1	972.7	974.0	975.3	976.6	977.9	978.0
177.5°	978.1	977.7	977.5	977.1	976.9	976.6	977.5	978.4	979.2	980.1	980.1
180°	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5



TEST NUMBER: P331478-930

CATALOG NUMBER: S122DIW-S290D970U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	462.2	461.9	461.9	460.6	461.9	461.9	462.2	463.7	464.1	464.4	463.8
5°	428.8	428.2	427.3	428.2	427.3	428.2	428.8	431.4	432.7	433.9	435.0
7.5°	395.7	393.5	393.1	390.9	393.1	393.5	395.7	396.9	399.5	402.4	405.1
10°	371.5	370.1	369.8	366.3	369.8	370.1	371.5	374.7	377.2	380.7	384.5
12.5°	353.2	349.6	350.3	348.3	350.3	349.6	353.2	353.2	356.2	358.4	364.2
15°	321.3	321.3	320.6	317.5	320.6	321.3	321.3	326.4	327.3	330.8	335.7
17.5°	298.5	298.1	296.4	297.3	296.4	298.1	298.5	302.1	302.8	307.4	311.6
20°	284.9	283.7	281.5	281.5	281.5	283.7	284.9	286.9	289.3	292.0	295.6
22.5°	272.0	271.9	269.5	270.3	269.5	271.9	272.0	273.9	276.1	279.2	282.1
25°	256.9	255.4	254.3	254.9	254.3	255.4	256.9	257.1	259.7	261.7	263.6
27.5°	242.6	241.7	241.7	240.2	241.7	241.7	242.6	243.0	244.5	245.7	247.4
30°	234.3	232.4	232.8	231.9	232.8	232.4	234.3	234.5	235.2	235.9	238.0
32.5°	224.8	224.1	223.8	223.0	223.8	224.1	224.8	225.1	226.7	227.4	228.9
35°	211.9	212.1	211.2	211.5	211.2	212.1	211.9	212.2	212.5	213.2	214.7
37.5°	200.6	201.1	200.7	200.8	200.7	201.1	200.6	200.7	201.0	201.1	201.5
40°	193.1	193.1	193.1	193.7	193.1	193.1	193.1	192.7	192.8	192.7	192.7
42.5°	186.1	185.7	185.5	185.4	185.5	185.7	186.1	184.7	185.4	184.7	184.5
45°	173.9	174.5	174.6	173.7	174.6	174.5	173.9	173.6	173.0	172.8	172.6
47.5°	162.9	163.0	162.9	163.7	162.9	163.0	162.9	162.4	161.6	161.3	160.4
50°	155.2	154.8	155.2	154.8	155.2	154.8	155.2	154.3	153.7	152.8	152.1
52.5°	147.1	147.2	146.9	146.8	146.9	147.2	147.1	145.9	145.6	145.2	144.1
55°	134.3	134.6	134.4	134.4	134.4	134.6	134.3	133.5	133.4	132.2	131.1
57.5°	121.1	121.4	121.6	120.8	121.6	121.4	121.1	120.9	120.8	119.6	118.5
60°	111.9	112.8	112.6	112.3	112.6	112.8	111.9	112.0	111.5	110.7	110.0
62.5°	103.4	103.8	103.7	103.6	103.7	103.8	103.4	102.6	102.3	101.6	100.9
65°	90.4	90.7	90.2	90.7	90.2	90.7	90.4	89.8	88.5	88.1	87.4
67.5°	76.3	76.5	76.9	77.1	76.9	76.5	76.3	76.6	75.7	75.0	74.8
70°	67.6	67.4	68.0	68.6	68.0	67.4	67.6	67.3	66.7	66.1	65.4
72.5°	58.4	58.8	58.6	59.0	58.6	58.8	58.4	58.5	58.0	57.2	56.5
75°	45.0	45.6	45.4	45.9	45.4	45.6	45.0	45.4	45.0	44.3	43.5
77.5°	32.5	32.6	32.5	32.9	32.5	32.6	32.5	32.9	32.4	32.7	31.8
80°	24.8	24.5	24.1	24.8	24.1	24.5	24.8	24.8	24.3	24.8	24.3
82.5°	17.3	17.4	17.1	17.1	17.1	17.4	17.3	17.7	17.4	17.7	17.1
85°	8.0	7.7	7.4	7.4	7.4	7.7	8.0	8.0	8.5	8.2	8.2
87.5°	7.0	6.8	6.9	6.8	6.9	6.8	7.0	6.9	6.9	7.3	7.4
90°	27.6	27.7	27.9	28.0	27.9	27.7	27.6	27.3	27.4	27.8	28.1
92.5°	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.6	26.6	26.5	26.4
95°	52.3	51.9	51.5	51.2	51.5	51.9	52.3	52.7	52.8	52.8	52.8
97.5°	88.8	88.8	88.7	88.7	88.7	88.8	88.8	88.9	88.9	88.9	88.9
100°	113.7	113.5	113.3	113.2	113.3	113.5	113.7	113.9	114.0	114.0	114.0
102.5°	141.5	141.2	141.0	140.9	141.0	141.2	141.5	141.6	141.6	141.5	141.4
105°	183.4	183.4	183.4	183.4	183.4	183.4	183.4	183.4	183.1	182.8	182.4
107.5°	225.8	224.9	224.1	223.3	224.1	224.9	225.8	226.7	227.0	226.9	226.7
110°	256.0	255.4	254.9	254.4	254.9	255.4	256.0	256.6	256.8	256.8	256.8



TEST NUMBER: P331478-930

CATALOG NUMBER: S122DIW-S290D970U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	285.3	284.9	284.5	284.1	284.5	284.9	285.3	285.7	286.1	286.6	287.0
115°	332.0	331.4	330.8	330.3	330.8	331.4	332.0	332.5	332.9	333.0	333.2
117.5°	376.1	375.5	375.0	374.4	375.0	375.5	376.1	376.6	377.1	377.6	378.0
120°	407.1	406.6	406.0	405.4	406.0	406.6	407.1	407.6	408.0	408.0	408.0
122.5°	437.1	436.7	436.3	435.9	436.3	436.7	437.1	437.5	437.9	438.3	438.8
125°	482.8	482.7	482.4	482.2	482.4	482.7	482.8	483.0	483.4	483.9	484.5
127.5°	526.3	525.7	525.1	524.6	525.1	525.7	526.3	526.8	527.5	528.2	528.8
130°	557.1	556.4	555.6	554.9	555.6	556.4	557.1	557.8	558.4	558.8	559.1
132.5°	585.8	585.1	584.6	584.0	584.6	585.1	585.8	586.4	587.0	587.8	588.6
135°	630.9	630.3	629.8	629.2	629.8	630.3	630.9	631.4	631.8	632.0	632.2
137.5°	672.4	671.6	670.9	670.2	670.9	671.6	672.4	673.1	673.6	673.8	673.8
140°	700.8	700.1	699.4	698.6	699.4	700.1	700.8	701.6	701.9	701.9	701.9
142.5°	726.6	725.9	725.1	724.4	725.1	725.9	726.6	727.3	727.6	727.5	727.3
145°	765.2	764.5	763.8	763.0	763.8	764.5	765.2	766.0	766.2	766.1	765.9
147.5°	799.6	798.9	798.3	797.5	798.3	798.9	799.6	800.3	800.5	800.1	799.6
150°	821.7	821.1	820.5	820.0	820.5	821.1	821.7	822.2	822.2	821.7	821.1
152.5°	843.3	842.5	841.8	841.1	841.8	842.5	843.3	843.9	843.9	843.3	842.5
155°	871.2	870.7	870.1	869.5	870.1	870.7	871.2	871.7	871.6	870.7	869.8
157.5°	896.7	895.8	894.9	894.0	894.9	895.8	896.7	897.5	897.3	896.1	894.9
160°	911.4	910.7	910.0	909.2	910.0	910.7	911.4	912.2	911.9	910.9	909.7
162.5°	925.0	924.1	923.2	922.4	923.2	924.1	925.0	925.9	925.8	924.5	923.2
165°	942.5	941.6	940.7	939.7	940.7	941.6	942.5	943.4	943.2	941.9	940.7
167.5°	956.8	955.9	954.9	954.0	954.9	955.9	956.8	957.7	957.6	956.3	955.0
170°	964.5	963.4	962.3	961.2	962.3	963.4	964.5	965.6	965.6	964.3	963.0
172.5°	970.5	969.4	968.2	967.2	968.2	969.4	970.5	971.6	971.4	970.2	968.9
175°	976.9	975.8	974.7	973.6	974.7	975.8	976.9	978.0	977.9	976.6	975.3
177.5°	979.2	978.4	977.5	976.6	977.5	978.4	979.2	980.1	980.1	979.2	978.4
180°	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5



TEST NUMBER: P331478-930

CATALOG NUMBER: S122DIW-S290D970U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	463.1	464.7	467.2	469.9	471.6	474.7	475.6	477.0	478.3	481.4	484.7
5°	436.3	439.0	445.1	448.4	453.0	458.4	461.9	465.6	469.7	476.7	483.2
7.5°	407.6	412.0	419.6	425.8	432.4	440.1	445.6	453.0	459.1	469.0	478.5
10°	388.6	394.7	401.5	409.0	418.2	426.3	434.1	443.4	450.8	462.7	473.8
12.5°	371.4	372.3	382.1	390.3	402.9	413.0	422.0	433.9	441.2	455.3	466.9
15°	341.4	346.9	355.8	362.2	377.2	390.0	402.7	415.1	423.4	440.8	456.2
17.5°	316.0	321.1	330.3	340.9	351.6	364.4	380.7	393.8	405.1	425.0	443.2
20°	300.0	306.3	315.6	326.5	336.0	349.8	363.9	379.0	391.2	413.6	434.9
22.5°	286.4	291.4	298.9	309.7	319.9	332.6	348.1	364.4	377.2	401.5	423.0
25°	267.3	271.3	276.1	285.0	296.7	310.6	322.6	340.6	359.3	381.9	408.0
27.5°	250.0	252.9	257.1	265.0	274.0	287.0	300.4	317.4	336.2	360.8	388.3
30°	239.5	241.3	245.6	252.1	261.0	271.2	284.7	300.9	320.2	345.0	372.4
32.5°	230.3	232.0	234.8	240.9	248.7	257.4	269.5	285.8	304.2	328.6	359.0
35°	216.5	217.8	220.2	225.2	229.5	238.0	248.2	263.0	280.2	303.5	335.0
37.5°	202.8	204.6	206.0	208.1	213.6	219.2	228.0	240.6	257.5	281.0	311.0
40°	193.7	195.2	197.5	198.4	202.8	207.8	215.0	226.5	243.5	265.1	294.3
42.5°	184.5	186.1	187.4	188.4	192.2	196.7	203.2	213.0	228.1	249.0	278.0
45°	172.0	172.3	173.6	175.6	177.4	180.6	185.2	193.7	205.4	225.0	251.4
47.5°	159.4	159.6	159.8	160.7	162.7	165.6	168.7	175.6	186.1	201.7	227.3
50°	150.9	150.6	150.9	151.6	153.0	155.4	158.9	163.9	172.4	187.0	210.6
52.5°	142.8	142.8	142.5	142.8	143.8	145.4	148.0	152.2	159.8	173.3	194.0
55°	130.4	129.5	129.6	128.9	130.6	130.9	132.8	136.3	143.0	152.2	171.7
57.5°	117.2	116.4	115.6	115.4	115.2	116.2	117.6	120.4	125.6	133.7	149.4
60°	108.7	107.8	106.6	106.3	106.3	106.9	107.6	109.7	114.5	121.6	134.6
62.5°	100.1	99.1	98.4	97.4	97.1	97.7	98.4	99.9	103.4	110.1	121.3
65°	86.8	85.5	84.6	84.5	84.1	83.6	83.9	85.4	88.1	93.5	102.4
67.5°	73.5	72.3	72.2	71.0	70.5	70.6	70.5	71.7	73.5	78.1	84.7
70°	64.8	63.9	63.5	62.6	62.2	61.9	61.5	62.6	64.2	68.2	73.9
72.5°	55.9	55.1	54.4	53.6	53.6	53.2	53.2	53.9	55.2	58.8	63.3
75°	43.1	43.4	42.4	41.5	41.3	40.9	40.9	41.5	42.1	44.8	48.3
77.5°	31.3	31.1	30.4	30.1	29.9	29.5	29.9	30.2	30.6	32.4	35.0
80°	23.9	23.9	23.0	23.0	22.7	22.3	22.7	22.4	23.2	25.0	26.8
82.5°	17.0	16.8	16.7	16.5	16.4	16.0	16.2	16.6	17.0	18.2	19.3
85°	8.3	8.3	8.2	8.0	8.2	8.0	8.2	8.3	8.5	9.0	10.0
87.5°	7.5	7.7	7.0	6.4	5.5	4.9	4.5	4.2	4.0	3.8	3.4
90°	28.5	28.9	24.9	20.8	16.8	12.7	9.6	7.4	5.2	3.0	0.8
92.5°	26.3	26.3	25.3	24.4	23.4	22.4	21.2	19.6	17.9	16.3	14.7
95°	52.8	52.8	52.5	52.1	51.8	51.4	50.3	48.4	46.6	44.8	43.0
97.5°	88.9	88.9	88.1	87.5	86.7	86.1	84.9	83.3	81.7	80.1	78.4
100°	114.0	114.0	113.4	112.8	112.3	111.8	110.7	109.3	107.8	106.3	104.8
102.5°	141.2	141.0	140.3	139.7	138.9	138.3	137.3	136.2	134.9	133.8	132.6
105°	182.1	181.6	181.3	180.9	180.6	180.2	179.8	179.2	178.6	178.1	177.6
107.5°	226.6	226.4	226.4	226.4	226.4	226.4	226.0	225.2	224.4	223.6	222.8
110°	256.8	256.8	256.8	256.8	256.8	256.8	256.2	255.2	254.0	253.0	251.8



TEST NUMBER: P331478-930

CATALOG NUMBER: S122DIW-S290D970U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	287.4	287.9	288.0	288.1	288.3	288.5	288.0	286.9	285.8	284.7	283.6
115°	333.5	333.6	333.9	334.4	334.7	335.1	334.7	333.6	332.5	331.4	330.3
117.5°	378.5	378.9	379.9	380.9	382.0	382.9	382.8	381.3	379.8	378.4	376.9
120°	408.0	408.0	409.4	410.9	412.4	413.8	413.8	412.4	410.9	409.4	408.0
122.5°	439.2	439.6	440.7	441.7	442.7	443.8	443.4	441.6	439.9	438.1	436.3
125°	485.0	485.6	486.1	486.7	487.2	487.8	487.2	485.6	483.9	482.2	480.6
127.5°	529.5	530.2	530.8	531.5	532.1	532.8	532.1	530.0	527.9	525.8	523.7
130°	559.5	559.9	560.3	560.6	561.0	561.3	560.4	558.0	555.5	553.2	550.8
132.5°	589.5	590.3	590.2	590.1	590.0	590.0	589.0	587.0	585.1	583.1	581.1
135°	632.3	632.5	632.2	631.8	631.4	631.0	629.9	627.9	625.8	623.9	621.8
137.5°	674.0	674.2	673.7	673.2	672.7	672.3	671.2	669.5	667.9	666.3	664.6
140°	701.9	701.9	701.0	700.1	699.2	698.2	696.9	695.3	693.7	692.0	690.3
142.5°	727.2	727.0	726.4	725.8	725.1	724.6	723.4	721.7	720.1	718.4	716.8
145°	765.6	765.5	764.4	763.3	762.2	761.1	759.9	758.6	757.3	756.0	754.7
147.5°	799.2	798.8	798.1	797.4	796.6	795.9	794.8	793.2	791.7	790.2	788.6
150°	820.5	820.0	819.3	818.6	817.8	817.1	816.1	815.1	813.9	812.9	811.7
152.5°	841.8	841.1	840.2	839.4	838.5	837.6	836.7	835.5	834.5	833.3	832.3
155°	868.8	867.9	867.3	866.8	866.3	865.7	865.1	864.6	864.1	863.5	862.9
157.5°	893.6	892.3	892.0	891.7	891.4	891.0	890.6	890.3	889.9	889.6	889.2
160°	908.7	907.5	907.3	907.2	907.0	906.8	906.5	906.1	905.8	905.4	905.1
162.5°	922.0	920.7	920.6	920.4	920.2	920.0	919.9	919.8	919.7	919.7	919.6
165°	939.4	938.1	938.1	938.1	938.1	938.1	938.2	938.3	938.6	938.7	938.9
167.5°	953.7	952.4	952.5	952.5	952.6	952.6	952.9	953.4	954.0	954.6	955.1
170°	961.6	960.4	960.6	960.7	960.9	961.2	961.5	962.1	962.6	963.1	963.7
172.5°	967.6	966.3	966.5	966.7	966.9	967.0	967.4	968.0	968.5	969.1	969.6
175°	974.0	972.7	973.1	973.5	973.9	974.2	974.7	975.3	975.8	976.3	976.9
177.5°	977.5	976.6	976.9	977.1	977.5	977.7	978.1	978.5	979.0	979.4	979.9
180°	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5



TEST NUMBER: P331478-930

CATALOG NUMBER: S122DIW-S290D970U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	484.5	485.2	487.5	489.9	492.6	493.3	494.5	493.5	493.2	495.9	498.1
5°	485.8	489.1	495.6	501.6	506.5	510.1	513.8	515.3	518.0	521.9	526.8
7.5°	484.2	490.7	500.9	509.6	518.9	525.7	531.0	535.6	541.0	548.4	556.4
10°	482.5	491.1	503.6	514.1	525.6	534.3	541.5	548.6	556.8	567.0	577.5
12.5°	479.2	489.5	505.1	517.6	532.3	540.9	550.6	565.7	574.5	588.7	603.6
15°	472.6	484.1	505.8	521.1	537.9	554.2	572.1	586.5	601.0	609.4	630.2
17.5°	462.9	479.7	503.8	521.7	542.9	568.5	588.7	605.1	621.7	635.3	645.8
20°	455.0	473.4	500.8	522.3	547.5	575.0	598.2	614.9	629.3	640.7	647.1
22.5°	445.2	468.2	494.9	520.1	552.2	579.5	603.8	616.9	629.0	634.5	637.1
25°	429.5	457.3	487.5	518.2	554.5	583.4	605.6	613.6	617.1	611.7	602.8
27.5°	412.6	443.6	478.9	514.7	553.1	580.9	596.8	595.6	589.6	572.2	558.3
30°	400.1	434.1	472.1	511.2	549.7	576.7	586.0	576.7	563.2	543.8	523.9
32.5°	386.9	422.2	464.8	506.1	543.5	567.3	569.2	553.3	532.4	510.3	485.6
35°	366.9	405.0	451.2	494.9	530.3	545.3	536.4	508.2	483.4	453.2	419.5
37.5°	344.3	386.5	432.7	478.4	510.5	514.4	492.3	462.7	427.6	392.2	352.5
40°	327.4	372.1	419.7	465.8	494.2	490.1	461.9	429.3	387.7	344.3	307.4
42.5°	312.3	356.9	405.4	450.7	473.4	462.2	429.3	389.3	344.5	303.7	269.9
45°	286.2	332.1	381.7	425.4	438.4	418.2	374.7	330.2	286.2	252.1	225.4
47.5°	260.7	306.1	355.3	393.7	398.3	371.1	323.6	277.9	239.9	212.2	193.4
50°	242.1	287.6	336.3	370.6	369.1	336.3	287.5	243.9	212.2	189.8	177.2
52.5°	225.3	268.4	315.1	346.3	338.4	302.7	256.0	217.4	191.4	173.8	162.4
55°	199.3	239.1	283.6	308.6	294.1	254.5	215.0	183.9	164.6	151.5	142.6
57.5°	173.4	210.8	248.8	264.2	248.3	211.7	178.8	156.2	141.7	132.0	126.2
60°	157.4	190.0	223.9	237.3	218.2	185.6	159.6	139.5	127.8	119.8	114.6
62.5°	141.5	170.6	202.6	209.9	192.4	164.9	141.9	125.1	115.5	108.4	103.5
65°	119.6	143.6	167.8	172.6	156.5	135.2	117.1	106.2	97.6	92.5	88.5
67.5°	98.2	117.3	134.5	138.4	124.3	109.5	96.4	86.8	81.1	76.8	73.5
70°	85.4	100.6	114.6	117.8	106.5	93.4	83.3	75.7	70.5	66.9	63.7
72.5°	71.9	84.5	96.3	98.4	89.2	79.1	70.9	64.9	60.3	58.0	55.0
75°	55.0	62.5	71.5	72.1	66.0	59.8	53.6	49.7	47.2	44.3	42.8
77.5°	38.8	44.6	49.8	50.8	47.2	43.0	39.5	36.4	34.4	33.0	31.6
80°	29.6	34.2	36.5	37.7	35.2	32.2	30.2	28.1	26.8	25.9	25.0
82.5°	21.2	24.1	26.1	27.1	25.7	23.9	21.9	20.7	19.7	19.0	18.7
85°	10.8	12.1	13.4	13.7	13.4	12.6	11.5	11.5	10.9	10.8	10.8
87.5°	4.3	5.4	5.8	6.7	7.0	7.8	8.6	9.3	9.9	9.7	9.5
90°	3.0	5.2	7.4	9.6	12.7	16.8	20.8	24.9	28.9	28.5	28.1
92.5°	16.3	17.9	19.6	21.2	22.4	23.4	24.4	25.3	26.3	26.3	26.4
95°	44.8	46.6	48.4	50.3	51.4	51.8	52.1	52.5	52.8	52.8	52.8
97.5°	80.1	81.7	83.3	84.9	86.1	86.7	87.5	88.1	88.9	88.9	88.9
100°	106.3	107.8	109.3	110.7	111.8	112.3	112.8	113.4	114.0	114.0	114.0
102.5°	133.8	134.9	136.2	137.3	138.3	138.9	139.7	140.3	141.0	141.2	141.4
105°	178.1	178.6	179.2	179.8	180.2	180.6	180.9	181.3	181.6	182.1	182.4
107.5°	223.6	224.4	225.2	226.0	226.4	226.4	226.4	226.4	226.4	226.6	226.7
110°	253.0	254.0	255.2	256.2	256.8	256.8	256.8	256.8	256.8	256.8	256.8





TEST NUMBER: P331478-930

CATALOG NUMBER: S122DIW-S290D970U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	284.7	285.8	286.9	288.0	288.5	288.3	288.1	288.0	287.9	287.4	287.0
115°	331.4	332.5	333.6	334.7	335.1	334.7	334.4	333.9	333.6	333.5	333.2
117.5°	378.4	379.8	381.3	382.8	382.9	382.0	380.9	379.9	378.9	378.5	378.0
120°	409.4	410.9	412.4	413.8	413.8	412.4	410.9	409.4	408.0	408.0	408.0
122.5°	438.1	439.9	441.6	443.4	443.8	442.7	441.7	440.7	439.6	439.2	438.8
125°	482.2	483.9	485.6	487.2	487.8	487.2	486.7	486.1	485.6	485.0	484.5
127.5°	525.8	527.9	530.0	532.1	532.8	532.1	531.5	530.8	530.2	529.5	528.8
130°	553.2	555.5	558.0	560.4	561.3	561.0	560.6	560.3	559.9	559.5	559.1
132.5°	583.1	585.1	587.0	589.0	590.0	590.0	590.1	590.2	590.3	589.5	588.6
135°	623.9	625.8	627.9	629.9	631.0	631.4	631.8	632.2	632.5	632.3	632.2
137.5°	666.3	667.9	669.5	671.2	672.3	672.7	673.2	673.7	674.2	674.0	673.8
140°	692.0	693.7	695.3	696.9	698.2	699.2	700.1	701.0	701.9	701.9	701.9
142.5°	718.4	720.1	721.7	723.4	724.6	725.1	725.8	726.4	727.0	727.2	727.3
145°	756.0	757.3	758.6	759.9	761.1	762.2	763.3	764.4	765.5	765.6	765.9
147.5°	790.2	791.7	793.2	794.8	795.9	796.6	797.4	798.1	798.8	799.2	799.6
150°	812.9	813.9	815.1	816.1	817.1	817.8	818.6	819.3	820.0	820.5	821.1
152.5°	833.3	834.5	835.5	836.7	837.6	838.5	839.4	840.2	841.1	841.8	842.5
155°	863.5	864.1	864.6	865.1	865.7	866.3	866.8	867.3	867.9	868.8	869.8
157.5°	889.6	889.9	890.3	890.6	891.0	891.4	891.7	892.0	892.3	893.6	894.9
160°	905.4	905.8	906.1	906.5	906.8	907.0	907.2	907.3	907.5	908.7	909.7
162.5°	919.7	919.7	919.8	919.9	920.0	920.2	920.4	920.6	920.7	922.0	923.2
165°	938.7	938.6	938.3	938.2	938.1	938.1	938.1	938.1	938.1	939.4	940.7
167.5°	954.6	954.0	953.4	952.9	952.6	952.6	952.5	952.5	952.4	953.7	955.0
170°	963.1	962.6	962.1	961.5	961.2	960.9	960.7	960.6	960.4	961.6	963.0
172.5°	969.1	968.5	968.0	967.4	967.0	966.9	966.7	966.5	966.3	967.6	968.9
175°	976.3	975.8	975.3	974.7	974.2	973.9	973.5	973.1	972.7	974.0	975.3
177.5°	979.4	979.0	978.5	978.1	977.7	977.5	977.1	976.9	976.6	977.5	978.4
180°	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5



TEST NUMBER: P331478-930

CATALOG NUMBER: S122DIW-S290D970U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	499.9	501.9	501.9	502.2	504.6	504.3	504.1
5°	531.9	535.1	535.4	538.7	541.0	540.2	538.2
7.5°	562.1	568.0	572.5	574.9	577.9	579.7	578.9
10°	586.2	594.7	599.9	603.4	607.6	610.8	609.7
12.5°	608.0	618.1	625.3	631.3	631.8	635.9	633.1
15°	642.0	652.6	653.8	658.2	661.8	661.4	661.5
17.5°	653.1	656.6	657.3	657.4	657.5	656.2	653.3
20°	649.1	647.8	644.7	642.3	638.1	637.5	633.8
22.5°	630.1	626.1	618.2	612.9	606.3	604.6	603.6
25°	592.9	583.8	571.2	559.1	555.8	549.3	551.1
27.5°	541.6	527.5	513.8	504.1	495.2	485.5	488.3
30°	505.6	489.7	470.4	455.6	446.1	436.9	435.2
32.5°	462.7	439.3	417.8	404.8	390.3	384.4	378.1
35°	388.6	365.7	344.5	326.1	315.6	307.4	300.0
37.5°	322.0	295.7	278.5	263.7	256.0	251.4	252.6
40°	280.6	257.6	245.0	233.7	226.7	223.4	224.1
42.5°	247.1	229.9	219.6	211.8	206.8	205.0	204.6
45°	209.1	199.5	190.9	186.5	184.1	182.1	180.8
47.5°	183.2	175.3	170.5	167.9	165.8	163.7	163.6
50°	167.6	162.4	159.1	156.3	154.7	153.2	154.5
52.5°	155.7	151.0	147.7	145.2	144.6	143.2	143.2
55°	138.2	134.4	132.1	129.8	128.7	128.0	127.0
57.5°	122.1	118.6	116.4	115.0	112.9	112.2	111.9
60°	110.7	107.9	105.7	103.9	103.0	101.5	101.5
62.5°	100.2	97.4	95.4	94.0	92.5	91.9	92.0
65°	85.0	82.8	80.7	79.2	78.9	77.8	78.2
67.5°	71.0	69.5	67.3	66.5	65.9	65.3	64.8
70°	61.6	60.2	59.1	58.0	57.4	57.4	57.4
72.5°	53.8	52.0	51.4	50.0	50.3	49.7	49.1
75°	41.7	40.5	40.0	39.5	38.6	38.6	38.6
77.5°	30.7	30.3	29.7	29.1	28.9	28.7	28.8
80°	23.7	23.5	23.2	23.2	22.7	22.6	22.3
82.5°	18.3	17.8	17.5	17.4	17.3	17.3	17.2
85°	10.4	10.0	10.0	10.2	9.8	9.8	10.0
87.5°	9.5	9.5	9.3	9.4	9.5	9.5	9.5
90°	27.8	27.4	27.3	27.6	27.7	27.9	28.0
92.5°	26.5	26.6	26.6	26.7	26.7	26.7	26.7
95°	52.8	52.8	52.7	52.3	51.9	51.5	51.2
97.5°	88.9	88.9	88.9	88.8	88.8	88.7	88.7
100°	114.0	114.0	113.9	113.7	113.5	113.3	113.2
102.5°	141.5	141.6	141.6	141.5	141.2	141.0	140.9
105°	182.8	183.1	183.4	183.4	183.4	183.4	183.4
107.5°	226.9	227.0	226.7	225.8	224.9	224.1	223.3
110°	256.8	256.8	256.6	256.0	255.4	254.9	254.4



TEST NUMBER: P331478-930

CATALOG NUMBER: S122DIW-S290D970U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	286.6	286.1	285.7	285.3	284.9	284.5	284.1
115°	333.0	332.9	332.5	332.0	331.4	330.8	330.3
117.5°	377.6	377.1	376.6	376.1	375.5	375.0	374.4
120°	408.0	408.0	407.6	407.1	406.6	406.0	405.4
122.5°	438.3	437.9	437.5	437.1	436.7	436.3	435.9
125°	483.9	483.4	483.0	482.8	482.7	482.4	482.2
127.5°	528.2	527.5	526.8	526.3	525.7	525.1	524.6
130°	558.8	558.4	557.8	557.1	556.4	555.6	554.9
132.5°	587.8	587.0	586.4	585.8	585.1	584.6	584.0
135°	632.0	631.8	631.4	630.9	630.3	629.8	629.2
137.5°	673.8	673.6	673.1	672.4	671.6	670.9	670.2
140°	701.9	701.9	701.6	700.8	700.1	699.4	698.6
142.5°	727.5	727.6	727.3	726.6	725.9	725.1	724.4
145°	766.1	766.2	766.0	765.2	764.5	763.8	763.0
147.5°	800.1	800.5	800.3	799.6	798.9	798.3	797.5
150°	821.7	822.2	822.2	821.7	821.1	820.5	820.0
152.5°	843.3	843.9	843.9	843.3	842.5	841.8	841.1
155°	870.7	871.6	871.7	871.2	870.7	870.1	869.5
157.5°	896.1	897.3	897.5	896.7	895.8	894.9	894.0
160°	910.9	911.9	912.2	911.4	910.7	910.0	909.2
162.5°	924.5	925.8	925.9	925.0	924.1	923.2	922.4
165°	941.9	943.2	943.4	942.5	941.6	940.7	939.7
167.5°	956.3	957.6	957.7	956.8	955.9	954.9	954.0
170°	964.3	965.6	965.6	964.5	963.4	962.3	961.2
172.5°	970.2	971.4	971.6	970.5	969.4	968.2	967.2
175°	976.6	977.9	978.0	976.9	975.8	974.7	973.6
177.5°	979.2	980.1	980.1	979.2	978.4	977.5	976.6
180°	978.5	978.5	978.5	978.5	978.5	978.5	978.5

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