

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: P331250-940

Luminaire Tested: **S122DIP-S290D530U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331250-940  
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: S122DIP-S290D530U940-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 530 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2850.1 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

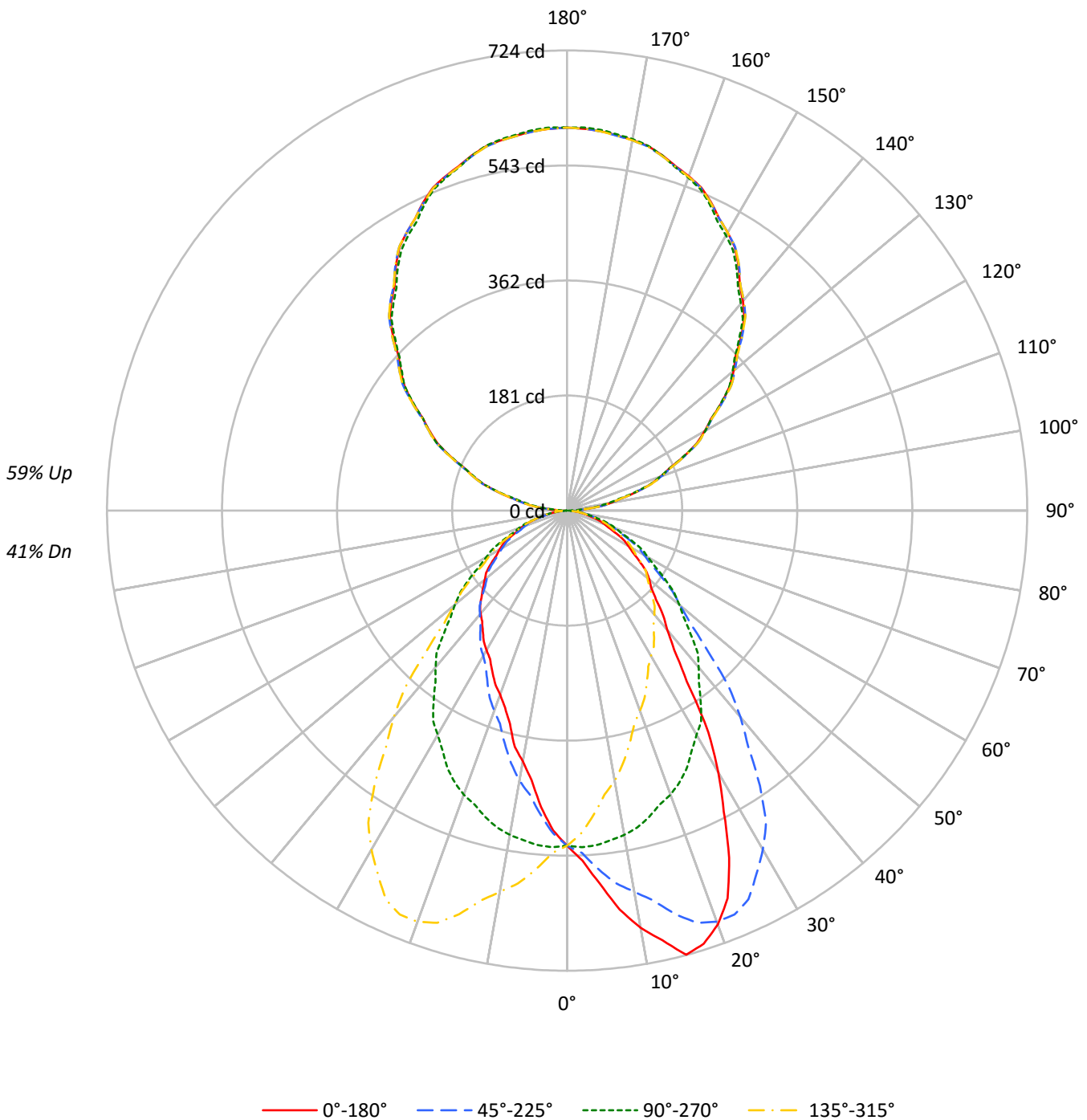
Input Watts (W): 25.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	50	30	10	0		
RCR																										
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	48	48	48	48	48	48	41		
1	96	92	88	85	87	84	81	78	69	67	65	55	54	53	43	42	41	41	41	41	41	41	41	35		
2	88	81	75	70	80	74	69	65	61	57	54	49	47	45	38	37	35	35	35	35	35	35	35	30		
3	80	71	64	59	73	65	59	54	54	50	46	44	41	38	34	32	30	30	30	30	30	30	30	26		
4	74	63	56	50	67	58	52	46	48	43	40	39	36	33	31	28	26	26	26	26	26	26	26	23		
5	68	57	49	43	62	52	45	40	43	38	34	35	32	29	28	25	23	23	23	23	23	23	23	20		
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	25	23	21	21	21	21	21	21	21	18		
7	58	46	38	33	53	42	36	31	36	30	27	29	25	23	23	21	19	19	19	19	19	19	19	16		
8	54	42	34	29	49	39	32	27	33	27	24	27	23	20	21	19	17	17	17	17	17	17	17	14		
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	20	17	15	15	15	15	15	15	15	13		
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	18	16	14	14	14	14	14	14	14	12		

**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	1.8
10°-20°	145.9	5.1
20°-30°	211.8	7.4
30°-40°	223.5	7.8
40°-50°	197.9	6.9
50°-60°	157.9	5.5
60°-70°	107.3	3.8
70°-80°	55.0	1.9
80°-90°	15.7	0.5
90°-100°	38.2	1.3
100°-110°	118.6	4.2
110°-120°	202.7	7.1
120°-130°	266.6	9.4
130°-140°	299.2	10.5
140°-150°	293.4	10.3
150°-160°	246.1	8.6
160°-170°	163.2	5.7
170°-180°	57.0	2.0
0°-30°	407.9	14.3
0°-40°	631.4	22.2
0°-60°	987.2	34.6
0°-90°	1165.2	40.9
90°-120°	359.5	12.6
90°-150°	1218.6	42.8
90°-180°	1685.0	59.1
0°-180°	2850.1	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	12
90°	17	0	17	0	17	8
95°	32	26	32	26	32	35
105°	113	109	113	109	113	119
115°	203	203	203	203	203	201
125°	297	296	297	296	297	265
135°	387	383	387	383	387	298
145°	470	465	470	465	470	293
155°	536	531	536	531	536	246
165°	579	578	579	578	579	163
175°	600	602	600	602	600	57
180°	602	602	602	602	602	



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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°	7.7	7.7	7.8	7.6	7.6	7.8	7.8	7.7	7.8	8.1	7.8
90°	17.3	17.2	17.0	16.9	16.9	16.9	17.1	17.4	17.6	17.8	15.3
92.5°	16.5	16.5	16.4	16.4	16.4	16.3	16.3	16.2	16.2	16.1	15.6
95°	31.6	31.7	32.0	32.2	32.5	32.5	32.5	32.5	32.5	32.5	32.3
97.5°	54.6	54.7	54.7	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.3
100°	69.6	69.8	69.9	70.0	70.1	70.2	70.2	70.2	70.2	70.2	69.8
102.5°	86.8	86.9	86.9	87.1	87.2	87.2	87.1	87.0	86.9	86.9	86.4
105°	112.9	112.9	112.9	112.9	112.9	112.8	112.5	112.4	112.1	111.9	111.6
107.5°	137.5	138.0	138.6	139.0	139.6	139.8	139.7	139.6	139.6	139.5	139.5
110°	156.6	156.9	157.3	157.7	158.0	158.1	158.1	158.1	158.1	158.1	158.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	175.0	175.1	175.4	175.7	175.9	176.2	176.5	176.7	177.0	177.3	177.4
115°	203.4	203.8	204.1	204.4	204.7	205.0	205.1	205.2	205.4	205.5	205.6
117.5°	230.5	230.9	231.2	231.6	231.9	232.2	232.5	232.7	233.0	233.3	233.9
120°	249.7	250.0	250.4	250.7	251.0	251.2	251.2	251.2	251.2	251.2	252.1
122.5°	268.4	268.7	268.9	269.1	269.4	269.7	269.9	270.2	270.5	270.7	271.3
125°	296.9	297.0	297.2	297.3	297.4	297.7	298.0	298.3	298.6	299.0	299.3
127.5°	323.0	323.3	323.7	324.0	324.4	324.9	325.2	325.7	326.0	326.5	326.9
130°	341.7	342.1	342.6	343.0	343.5	343.8	344.1	344.3	344.6	344.7	345.0
132.5°	359.6	360.0	360.3	360.7	361.1	361.5	361.9	362.5	363.0	363.5	363.5
135°	387.4	387.8	388.2	388.5	388.8	389.1	389.1	389.3	389.4	389.5	389.3
137.5°	412.7	413.1	413.6	414.0	414.5	414.7	414.8	414.9	415.0	415.1	414.8
140°	430.2	430.6	431.1	431.5	432.0	432.2	432.2	432.2	432.2	432.2	431.7
142.5°	446.0	446.5	446.9	447.4	447.8	448.0	447.9	447.8	447.7	447.6	447.3
145°	469.8	470.3	470.7	471.2	471.6	471.8	471.7	471.6	471.4	471.4	470.7
147.5°	491.1	491.5	492.0	492.4	492.8	492.9	492.7	492.4	492.1	492.0	491.4
150°	505.0	505.2	505.6	506.0	506.3	506.3	506.0	505.6	505.2	505.0	504.4
152.5°	518.0	518.4	518.8	519.2	519.7	519.7	519.2	518.8	518.4	518.0	517.4
155°	535.5	535.7	536.1	536.5	536.8	536.7	536.1	535.6	535.0	534.4	534.0
157.5°	550.5	551.1	551.6	552.1	552.7	552.6	551.8	551.0	550.3	549.5	549.3
160°	559.8	560.3	560.8	561.2	561.7	561.5	560.9	560.2	559.5	558.8	558.7
162.5°	568.0	568.6	569.1	569.6	570.2	570.1	569.3	568.5	567.8	566.9	566.9
165°	578.6	579.3	579.8	580.3	580.9	580.8	580.1	579.3	578.5	577.7	577.7
167.5°	587.4	588.0	588.6	589.2	589.8	589.7	588.9	588.1	587.3	586.5	586.5
170°	591.9	592.5	593.3	593.9	594.6	594.5	593.8	593.0	592.2	591.4	591.5
172.5°	595.6	596.2	596.9	597.6	598.2	598.2	597.4	596.6	595.8	595.0	595.1
175°	599.5	600.2	600.8	601.5	602.3	602.2	601.4	600.6	599.8	599.0	599.2
177.5°	601.4	601.9	602.4	603.0	603.5	603.5	603.0	602.4	601.9	601.4	601.5
180°	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5



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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°	7.4	7.0	6.4	6.3	5.6	5.4	4.5	3.7	3.7	3.9	3.8
90°	12.8	10.3	7.8	6.0	4.5	3.2	1.9	0.5	1.9	3.2	4.5
92.5°	15.0	14.4	13.8	13.0	12.0	11.1	10.1	9.1	10.1	11.1	12.0
95°	32.1	31.8	31.7	30.9	29.9	28.7	27.6	26.5	27.6	28.7	29.9
97.5°	53.9	53.4	53.0	52.3	51.3	50.3	49.3	48.3	49.3	50.3	51.3
100°	69.5	69.2	68.8	68.2	67.3	66.3	65.5	64.6	65.5	66.3	67.3
102.5°	86.0	85.6	85.2	84.5	83.8	83.1	82.4	81.7	82.4	83.1	83.8
105°	111.4	111.2	110.9	110.7	110.3	110.0	109.7	109.3	109.7	110.0	110.3
107.5°	139.5	139.5	139.5	139.2	138.7	138.2	137.7	137.2	137.7	138.2	138.7
110°	158.1	158.1	158.1	157.8	157.1	156.4	155.8	155.1	155.8	156.4	157.1





TEST NUMBER: P331250-940

CATALOG NUMBER: S122DIP-S290D530U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	177.5	177.5	177.6	177.4	176.6	175.9	175.3	174.6	175.3	175.9	176.6
115°	205.9	206.1	206.3	206.1	205.5	204.7	204.1	203.4	204.1	204.7	205.5
117.5°	234.5	235.2	235.9	235.7	234.8	233.9	233.0	232.1	233.0	233.9	234.8
120°	253.0	253.9	254.9	254.9	253.9	253.0	252.1	251.2	252.1	253.0	253.9
122.5°	272.0	272.6	273.2	273.0	272.0	270.9	269.7	268.7	269.7	270.9	272.0
125°	299.7	300.0	300.3	300.0	299.0	298.0	296.9	296.0	296.9	298.0	299.0
127.5°	327.3	327.7	328.1	327.6	326.4	325.0	323.8	322.4	323.8	325.0	326.4
130°	345.2	345.4	345.6	345.0	343.6	342.1	340.6	339.2	340.6	342.1	343.6
132.5°	363.4	363.4	363.3	362.7	361.5	360.3	359.1	357.8	359.1	360.3	361.5
135°	389.1	388.8	388.6	387.9	386.6	385.4	384.1	382.9	384.1	385.4	386.6
137.5°	414.6	414.3	413.9	413.3	412.3	411.3	410.3	409.2	410.3	411.3	412.3
140°	431.1	430.5	430.0	429.2	428.1	427.1	426.1	425.1	426.1	427.1	428.1
142.5°	446.9	446.6	446.1	445.4	444.4	443.4	442.4	441.4	442.4	443.4	444.4
145°	470.0	469.3	468.7	468.0	467.2	466.4	465.6	464.8	465.6	466.4	467.2
147.5°	491.0	490.5	490.1	489.4	488.5	487.5	486.5	485.6	486.5	487.5	488.5
150°	504.0	503.5	503.1	502.6	501.9	501.2	500.5	499.9	500.5	501.2	501.9
152.5°	516.8	516.3	515.8	515.1	514.5	513.8	513.2	512.5	513.2	513.8	514.5
155°	533.8	533.4	533.1	532.7	532.4	532.1	531.7	531.4	531.7	532.1	532.4
157.5°	549.1	548.8	548.7	548.5	548.2	548.0	547.8	547.5	547.8	548.0	548.2
160°	558.6	558.5	558.4	558.2	557.9	557.8	557.5	557.3	557.5	557.8	557.9
162.5°	566.8	566.6	566.5	566.4	566.4	566.3	566.3	566.2	566.3	566.3	566.4
165°	577.7	577.7	577.7	577.7	577.8	577.9	578.0	578.2	578.0	577.9	577.8
167.5°	586.6	586.6	586.6	586.7	587.1	587.5	587.8	588.1	587.8	587.5	587.1
170°	591.6	591.7	591.8	592.1	592.4	592.7	593.1	593.4	593.1	592.7	592.4
172.5°	595.3	595.4	595.5	595.8	596.0	596.4	596.7	597.1	596.7	596.4	596.0
175°	599.5	599.7	599.9	600.2	600.6	600.8	601.2	601.5	601.2	600.8	600.6
177.5°	601.7	601.9	602.1	602.3	602.5	602.8	603.1	603.4	603.1	602.8	602.5
180°	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5



TEST NUMBER: P331250-940

CATALOG NUMBER: S122DIP-S290D530U940-4F0-1E-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°	3.9	4.2	4.5	5.0	5.4	5.7	5.4	5.4	5.4	5.0	5.0
90°	6.0	7.8	10.3	12.8	15.3	17.8	17.6	17.4	17.1	16.9	16.9
92.5°	13.0	13.8	14.4	15.0	15.6	16.1	16.2	16.2	16.3	16.3	16.4
95°	30.9	31.7	31.8	32.1	32.3	32.5	32.5	32.5	32.5	32.5	32.5
97.5°	52.3	53.0	53.4	53.9	54.3	54.8	54.8	54.8	54.8	54.8	54.7
100°	68.2	68.8	69.2	69.5	69.8	70.2	70.2	70.2	70.2	70.2	70.1
102.5°	84.5	85.2	85.6	86.0	86.4	86.9	86.9	87.0	87.1	87.2	87.2
105°	110.7	110.9	111.2	111.4	111.6	111.9	112.1	112.4	112.5	112.8	112.9
107.5°	139.2	139.5	139.5	139.5	139.5	139.5	139.6	139.6	139.7	139.8	139.6
110°	157.8	158.1	158.1	158.1	158.1	158.1	158.1	158.1	158.1	158.1	158.0



TEST NUMBER: P331250-940

CATALOG NUMBER: S122DIP-S290D530U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	177.4	177.6	177.5	177.5	177.4	177.3	177.0	176.7	176.5	176.2	175.9
115°	206.1	206.3	206.1	205.9	205.6	205.5	205.4	205.2	205.1	205.0	204.7
117.5°	235.7	235.9	235.2	234.5	233.9	233.3	233.0	232.7	232.5	232.2	231.9
120°	254.9	254.9	253.9	253.0	252.1	251.2	251.2	251.2	251.2	251.2	251.0
122.5°	273.0	273.2	272.6	272.0	271.3	270.7	270.5	270.2	269.9	269.7	269.4
125°	300.0	300.3	300.0	299.7	299.3	299.0	298.6	298.3	298.0	297.7	297.4
127.5°	327.6	328.1	327.7	327.3	326.9	326.5	326.0	325.7	325.2	324.9	324.4
130°	345.0	345.6	345.4	345.2	345.0	344.7	344.6	344.3	344.1	343.8	343.5
132.5°	362.7	363.3	363.4	363.4	363.5	363.5	363.0	362.5	361.9	361.5	361.1
135°	387.9	388.6	388.8	389.1	389.3	389.5	389.4	389.3	389.1	389.1	388.8
137.5°	413.3	413.9	414.3	414.6	414.8	415.1	415.0	414.9	414.8	414.7	414.5
140°	429.2	430.0	430.5	431.1	431.7	432.2	432.2	432.2	432.2	432.2	432.0
142.5°	445.4	446.1	446.6	446.9	447.3	447.6	447.7	447.8	447.9	448.0	447.8
145°	468.0	468.7	469.3	470.0	470.7	471.4	471.4	471.6	471.7	471.8	471.6
147.5°	489.4	490.1	490.5	491.0	491.4	492.0	492.1	492.4	492.7	492.9	492.8
150°	502.6	503.1	503.5	504.0	504.4	505.0	505.2	505.6	506.0	506.3	506.3
152.5°	515.1	515.8	516.3	516.8	517.4	518.0	518.4	518.8	519.2	519.7	519.7
155°	532.7	533.1	533.4	533.8	534.0	534.4	535.0	535.6	536.1	536.7	536.8
157.5°	548.5	548.7	548.8	549.1	549.3	549.5	550.3	551.0	551.8	552.6	552.7
160°	558.2	558.4	558.5	558.6	558.7	558.8	559.5	560.2	560.9	561.5	561.7
162.5°	566.4	566.5	566.6	566.8	566.9	566.9	567.8	568.5	569.3	570.1	570.2
165°	577.7	577.7	577.7	577.7	577.7	577.7	578.5	579.3	580.1	580.8	580.9
167.5°	586.7	586.6	586.6	586.6	586.5	586.5	587.3	588.1	588.9	589.7	589.8
170°	592.1	591.8	591.7	591.6	591.5	591.4	592.2	593.0	593.8	594.5	594.6
172.5°	595.8	595.5	595.4	595.3	595.1	595.0	595.8	596.6	597.4	598.2	598.2
175°	600.2	599.9	599.7	599.5	599.2	599.0	599.8	600.6	601.4	602.2	602.3
177.5°	602.3	602.1	601.9	601.7	601.5	601.4	601.9	602.4	603.0	603.5	603.5
180°	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5



TEST NUMBER: P331250-940

CATALOG NUMBER: S122DIP-S290D530U940-4F0-1E-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°	5.0	4.9	4.9	4.7	4.9	4.9	5.0	5.0	5.0	5.4	5.4
90°	16.9	17.0	17.2	17.3	17.2	17.0	16.9	16.9	16.9	17.1	17.4
92.5°	16.4	16.4	16.5	16.5	16.5	16.4	16.4	16.4	16.3	16.3	16.2
95°	32.2	32.0	31.7	31.6	31.7	32.0	32.2	32.5	32.5	32.5	32.5
97.5°	54.7	54.7	54.7	54.6	54.7	54.7	54.7	54.7	54.8	54.8	54.8
100°	70.0	69.9	69.8	69.6	69.8	69.9	70.0	70.1	70.2	70.2	70.2
102.5°	87.1	86.9	86.9	86.8	86.9	86.9	87.1	87.2	87.2	87.1	87.0
105°	112.9	112.9	112.9	112.9	112.9	112.9	112.9	112.9	112.8	112.5	112.4
107.5°	139.0	138.6	138.0	137.5	138.0	138.6	139.0	139.6	139.8	139.7	139.6
110°	157.7	157.3	156.9	156.6	156.9	157.3	157.7	158.0	158.1	158.1	158.1



TEST NUMBER: P331250-940

CATALOG NUMBER: S122DIP-S290D530U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	175.7	175.4	175.1	175.0	175.1	175.4	175.7	175.9	176.2	176.5	176.7
115°	204.4	204.1	203.8	203.4	203.8	204.1	204.4	204.7	205.0	205.1	205.2
117.5°	231.6	231.2	230.9	230.5	230.9	231.2	231.6	231.9	232.2	232.5	232.7
120°	250.7	250.4	250.0	249.7	250.0	250.4	250.7	251.0	251.2	251.2	251.2
122.5°	269.1	268.9	268.7	268.4	268.7	268.9	269.1	269.4	269.7	269.9	270.2
125°	297.3	297.2	297.0	296.9	297.0	297.2	297.3	297.4	297.7	298.0	298.3
127.5°	324.0	323.7	323.3	323.0	323.3	323.7	324.0	324.4	324.9	325.2	325.7
130°	343.0	342.6	342.1	341.7	342.1	342.6	343.0	343.5	343.8	344.1	344.3
132.5°	360.7	360.3	360.0	359.6	360.0	360.3	360.7	361.1	361.5	361.9	362.5
135°	388.5	388.2	387.8	387.4	387.8	388.2	388.5	388.8	389.1	389.1	389.3
137.5°	414.0	413.6	413.1	412.7	413.1	413.6	414.0	414.5	414.7	414.8	414.9
140°	431.5	431.1	430.6	430.2	430.6	431.1	431.5	432.0	432.2	432.2	432.2
142.5°	447.4	446.9	446.5	446.0	446.5	446.9	447.4	447.8	448.0	447.9	447.8
145°	471.2	470.7	470.3	469.8	470.3	470.7	471.2	471.6	471.8	471.7	471.6
147.5°	492.4	492.0	491.5	491.1	491.5	492.0	492.4	492.8	492.9	492.7	492.4
150°	506.0	505.6	505.2	505.0	505.2	505.6	506.0	506.3	506.3	506.0	505.6
152.5°	519.2	518.8	518.4	518.0	518.4	518.8	519.2	519.7	519.7	519.2	518.8
155°	536.5	536.1	535.7	535.5	535.7	536.1	536.5	536.8	536.7	536.1	535.6
157.5°	552.1	551.6	551.1	550.5	551.1	551.6	552.1	552.7	552.6	551.8	551.0
160°	561.2	560.8	560.3	559.8	560.3	560.8	561.2	561.7	561.5	560.9	560.2
162.5°	569.6	569.1	568.6	568.0	568.6	569.1	569.6	570.2	570.1	569.3	568.5
165°	580.3	579.8	579.3	578.6	579.3	579.8	580.3	580.9	580.8	580.1	579.3
167.5°	589.2	588.6	588.0	587.4	588.0	588.6	589.2	589.8	589.7	588.9	588.1
170°	593.9	593.3	592.5	591.9	592.5	593.3	593.9	594.6	594.5	593.8	593.0
172.5°	597.6	596.9	596.2	595.6	596.2	596.9	597.6	598.2	598.2	597.4	596.6
175°	601.5	600.8	600.2	599.5	600.2	600.8	601.5	602.3	602.2	601.4	600.6
177.5°	603.0	602.4	601.9	601.4	601.9	602.4	603.0	603.5	603.5	603.0	602.4
180°	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5



TEST NUMBER: P331250-940

CATALOG NUMBER: S122DIP-S290D530U940-4F0-1E-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°	5.4	5.7	5.4	5.0	4.5	4.2	3.9	3.8	3.9	3.7	3.7
90°	17.6	17.8	15.3	12.8	10.3	7.8	6.0	4.5	3.2	1.9	0.5
92.5°	16.2	16.1	15.6	15.0	14.4	13.8	13.0	12.0	11.1	10.1	9.1
95°	32.5	32.5	32.3	32.1	31.8	31.7	30.9	29.9	28.7	27.6	26.5
97.5°	54.8	54.8	54.3	53.9	53.4	53.0	52.3	51.3	50.3	49.3	48.3
100°	70.2	70.2	69.8	69.5	69.2	68.8	68.2	67.3	66.3	65.5	64.6
102.5°	86.9	86.9	86.4	86.0	85.6	85.2	84.5	83.8	83.1	82.4	81.7
105°	112.1	111.9	111.6	111.4	111.2	110.9	110.7	110.3	110.0	109.7	109.3
107.5°	139.6	139.5	139.5	139.5	139.5	139.5	139.2	138.7	138.2	137.7	137.2
110°	158.1	158.1	158.1	158.1	158.1	158.1	157.8	157.1	156.4	155.8	155.1



TEST NUMBER: P331250-940

CATALOG NUMBER: S122DIP-S290D530U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	177.0	177.3	177.4	177.5	177.5	177.6	177.4	176.6	175.9	175.3	174.6
115°	205.4	205.5	205.6	205.9	206.1	206.3	206.1	205.5	204.7	204.1	203.4
117.5°	233.0	233.3	233.9	234.5	235.2	235.9	235.7	234.8	233.9	233.0	232.1
120°	251.2	251.2	252.1	253.0	253.9	254.9	254.9	253.9	253.0	252.1	251.2
122.5°	270.5	270.7	271.3	272.0	272.6	273.2	273.0	272.0	270.9	269.7	268.7
125°	298.6	299.0	299.3	299.7	300.0	300.3	300.0	299.0	298.0	296.9	296.0
127.5°	326.0	326.5	326.9	327.3	327.7	328.1	327.6	326.4	325.0	323.8	322.4
130°	344.6	344.7	345.0	345.2	345.4	345.6	345.0	343.6	342.1	340.6	339.2
132.5°	363.0	363.5	363.5	363.4	363.4	363.3	362.7	361.5	360.3	359.1	357.8
135°	389.4	389.5	389.3	389.1	388.8	388.6	387.9	386.6	385.4	384.1	382.9
137.5°	415.0	415.1	414.8	414.6	414.3	413.9	413.3	412.3	411.3	410.3	409.2
140°	432.2	432.2	431.7	431.1	430.5	430.0	429.2	428.1	427.1	426.1	425.1
142.5°	447.7	447.6	447.3	446.9	446.6	446.1	445.4	444.4	443.4	442.4	441.4
145°	471.4	471.4	470.7	470.0	469.3	468.7	468.0	467.2	466.4	465.6	464.8
147.5°	492.1	492.0	491.4	491.0	490.5	490.1	489.4	488.5	487.5	486.5	485.6
150°	505.2	505.0	504.4	504.0	503.5	503.1	502.6	501.9	501.2	500.5	499.9
152.5°	518.4	518.0	517.4	516.8	516.3	515.8	515.1	514.5	513.8	513.2	512.5
155°	535.0	534.4	534.0	533.8	533.4	533.1	532.7	532.4	532.1	531.7	531.4
157.5°	550.3	549.5	549.3	549.1	548.8	548.7	548.5	548.2	548.0	547.8	547.5
160°	559.5	558.8	558.7	558.6	558.5	558.4	558.2	557.9	557.8	557.5	557.3
162.5°	567.8	566.9	566.9	566.8	566.6	566.5	566.4	566.4	566.3	566.3	566.2
165°	578.5	577.7	577.7	577.7	577.7	577.7	577.7	577.8	577.9	578.0	578.2
167.5°	587.3	586.5	586.5	586.6	586.6	586.6	586.7	587.1	587.5	587.8	588.1
170°	592.2	591.4	591.5	591.6	591.7	591.8	592.1	592.4	592.7	593.1	593.4
172.5°	595.8	595.0	595.1	595.3	595.4	595.5	595.8	596.0	596.4	596.7	597.1
175°	599.8	599.0	599.2	599.5	599.7	599.9	600.2	600.6	600.8	601.2	601.5
177.5°	601.9	601.4	601.5	601.7	601.9	602.1	602.3	602.5	602.8	603.1	603.4
180°	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5



TEST NUMBER: P331250-940

CATALOG NUMBER: S122DIP-S290D530U940-4F0-1E-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	5.4	5.6	6.3	6.4	7.0	7.4	7.8	8.1	7.8	7.7
90°	1.9	3.2	4.5	6.0	7.8	10.3	12.8	15.3	17.8	17.6	17.4
92.5°	10.1	11.1	12.0	13.0	13.8	14.4	15.0	15.6	16.1	16.2	16.2
95°	27.6	28.7	29.9	30.9	31.7	31.8	32.1	32.3	32.5	32.5	32.5
97.5°	49.3	50.3	51.3	52.3	53.0	53.4	53.9	54.3	54.8	54.8	54.8
100°	65.5	66.3	67.3	68.2	68.8	69.2	69.5	69.8	70.2	70.2	70.2
102.5°	82.4	83.1	83.8	84.5	85.2	85.6	86.0	86.4	86.9	86.9	87.0
105°	109.7	110.0	110.3	110.7	110.9	111.2	111.4	111.6	111.9	112.1	112.4
107.5°	137.7	138.2	138.7	139.2	139.5	139.5	139.5	139.5	139.5	139.6	139.6
110°	155.8	156.4	157.1	157.8	158.1	158.1	158.1	158.1	158.1	158.1	158.1





TEST NUMBER: P331250-940

CATALOG NUMBER: S122DIP-S290D530U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	175.3	175.9	176.6	177.4	177.6	177.5	177.5	177.4	177.3	177.0	176.7
115°	204.1	204.7	205.5	206.1	206.3	206.1	205.9	205.6	205.5	205.4	205.2
117.5°	233.0	233.9	234.8	235.7	235.9	235.2	234.5	233.9	233.3	233.0	232.7
120°	252.1	253.0	253.9	254.9	254.9	253.9	253.0	252.1	251.2	251.2	251.2
122.5°	269.7	270.9	272.0	273.0	273.2	272.6	272.0	271.3	270.7	270.5	270.2
125°	296.9	298.0	299.0	300.0	300.3	300.0	299.7	299.3	299.0	298.6	298.3
127.5°	323.8	325.0	326.4	327.6	328.1	327.7	327.3	326.9	326.5	326.0	325.7
130°	340.6	342.1	343.6	345.0	345.6	345.4	345.2	345.0	344.7	344.6	344.3
132.5°	359.1	360.3	361.5	362.7	363.3	363.4	363.4	363.5	363.5	363.0	362.5
135°	384.1	385.4	386.6	387.9	388.6	388.8	389.1	389.3	389.5	389.4	389.3
137.5°	410.3	411.3	412.3	413.3	413.9	414.3	414.6	414.8	415.1	415.0	414.9
140°	426.1	427.1	428.1	429.2	430.0	430.5	431.1	431.7	432.2	432.2	432.2
142.5°	442.4	443.4	444.4	445.4	446.1	446.6	446.9	447.3	447.6	447.7	447.8
145°	465.6	466.4	467.2	468.0	468.7	469.3	470.0	470.7	471.4	471.4	471.6
147.5°	486.5	487.5	488.5	489.4	490.1	490.5	491.0	491.4	492.0	492.1	492.4
150°	500.5	501.2	501.9	502.6	503.1	503.5	504.0	504.4	505.0	505.2	505.6
152.5°	513.2	513.8	514.5	515.1	515.8	516.3	516.8	517.4	518.0	518.4	518.8
155°	531.7	532.1	532.4	532.7	533.1	533.4	533.8	534.0	534.4	535.0	535.6
157.5°	547.8	548.0	548.2	548.5	548.7	548.8	549.1	549.3	549.5	550.3	551.0
160°	557.5	557.8	557.9	558.2	558.4	558.5	558.6	558.7	558.8	559.5	560.2
162.5°	566.3	566.3	566.4	566.4	566.5	566.6	566.8	566.9	566.9	567.8	568.5
165°	578.0	577.9	577.8	577.7	577.7	577.7	577.7	577.7	577.7	578.5	579.3
167.5°	587.8	587.5	587.1	586.7	586.6	586.6	586.6	586.5	586.5	587.3	588.1
170°	593.1	592.7	592.4	592.1	591.8	591.7	591.6	591.5	591.4	592.2	593.0
172.5°	596.7	596.4	596.0	595.8	595.5	595.4	595.3	595.1	595.0	595.8	596.6
175°	601.2	600.8	600.6	600.2	599.9	599.7	599.5	599.2	599.0	599.8	600.6
177.5°	603.1	602.8	602.5	602.3	602.1	601.9	601.7	601.5	601.4	601.9	602.4
180°	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5



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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°	7.8	7.8	7.6	7.6	7.8	7.7	7.7
90°	17.1	16.9	16.9	16.9	17.0	17.2	17.3
92.5°	16.3	16.3	16.4	16.4	16.4	16.5	16.5
95°	32.5	32.5	32.5	32.2	32.0	31.7	31.6
97.5°	54.8	54.8	54.7	54.7	54.7	54.7	54.6
100°	70.2	70.2	70.1	70.0	69.9	69.8	69.6
102.5°	87.1	87.2	87.2	87.1	86.9	86.9	86.8
105°	112.5	112.8	112.9	112.9	112.9	112.9	112.9
107.5°	139.7	139.8	139.6	139.0	138.6	138.0	137.5
110°	158.1	158.1	158.0	157.7	157.3	156.9	156.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	176.5	176.2	175.9	175.7	175.4	175.1	175.0
115°	205.1	205.0	204.7	204.4	204.1	203.8	203.4
117.5°	232.5	232.2	231.9	231.6	231.2	230.9	230.5
120°	251.2	251.2	251.0	250.7	250.4	250.0	249.7
122.5°	269.9	269.7	269.4	269.1	268.9	268.7	268.4
125°	298.0	297.7	297.4	297.3	297.2	297.0	296.9
127.5°	325.2	324.9	324.4	324.0	323.7	323.3	323.0
130°	344.1	343.8	343.5	343.0	342.6	342.1	341.7
132.5°	361.9	361.5	361.1	360.7	360.3	360.0	359.6
135°	389.1	389.1	388.8	388.5	388.2	387.8	387.4
137.5°	414.8	414.7	414.5	414.0	413.6	413.1	412.7
140°	432.2	432.2	432.0	431.5	431.1	430.6	430.2
142.5°	447.9	448.0	447.8	447.4	446.9	446.5	446.0
145°	471.7	471.8	471.6	471.2	470.7	470.3	469.8
147.5°	492.7	492.9	492.8	492.4	492.0	491.5	491.1
150°	506.0	506.3	506.3	506.0	505.6	505.2	505.0
152.5°	519.2	519.7	519.7	519.2	518.8	518.4	518.0
155°	536.1	536.7	536.8	536.5	536.1	535.7	535.5
157.5°	551.8	552.6	552.7	552.1	551.6	551.1	550.5
160°	560.9	561.5	561.7	561.2	560.8	560.3	559.8
162.5°	569.3	570.1	570.2	569.6	569.1	568.6	568.0
165°	580.1	580.8	580.9	580.3	579.8	579.3	578.6
167.5°	588.9	589.7	589.8	589.2	588.6	588.0	587.4
170°	593.8	594.5	594.6	593.9	593.3	592.5	591.9
172.5°	597.4	598.2	598.2	597.6	596.9	596.2	595.6
175°	601.4	602.2	602.3	601.5	600.8	600.2	599.5
177.5°	603.0	603.5	603.5	603.0	602.4	601.9	601.4
180°	602.5	602.5	602.5	602.5	602.5	602.5	602.5

(END OF REPORT)