

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: P331766-940

Luminaire Tested: **S122RDIW-S290D435U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331766-940  
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: S122RDIW-S290D435U940-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 435 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2348.0 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

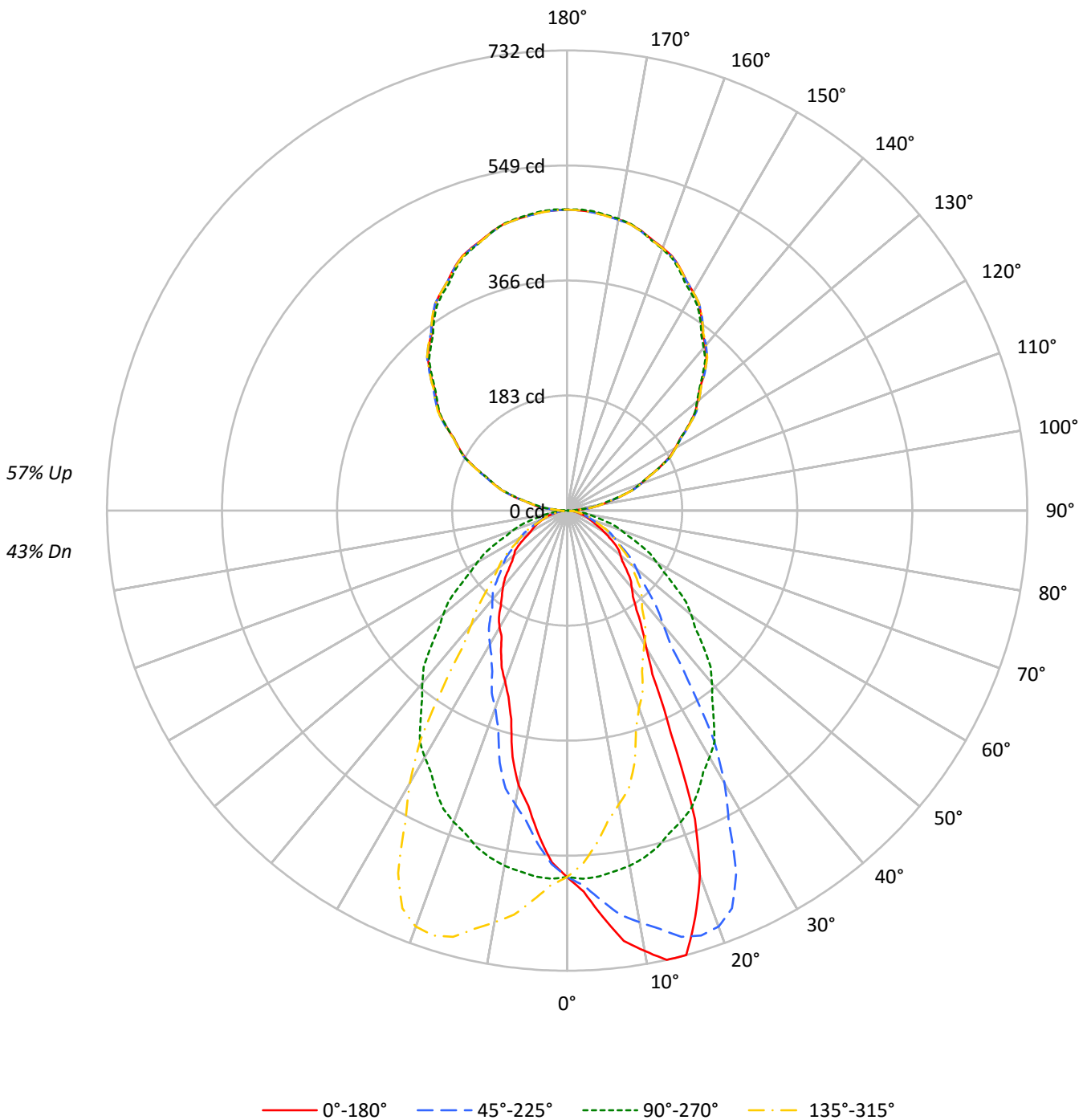
Input Watts (W): 23  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	97	93	89	86	88	85	82	79	71	68	66	57	56	54	45	44	43	37
2	89	82	76	71	81	75	70	66	63	59	56	51	49	47	40	39	37	33
3	81	73	66	60	74	67	61	56	56	52	48	46	43	40	36	34	33	28
4	75	65	57	52	68	60	53	48	50	45	42	41	38	35	33	31	29	25
5	69	58	50	45	63	54	47	42	45	40	36	37	34	31	30	28	26	22
6	64	52	45	39	58	48	42	37	41	36	32	34	30	28	28	25	23	20
7	59	48	40	35	54	44	37	33	37	32	29	31	28	25	26	23	21	18
8	55	43	36	31	50	40	34	29	34	29	26	29	25	22	24	21	19	17
9	51	40	33	28	47	37	31	26	32	27	23	27	23	20	22	19	17	15
10	48	37	30	25	44	34	28	24	29	24	21	25	21	18	21	18	16	14

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

	0°	90°	180°	270°
0°	9411	9411	9411	9411
5°	10511	9470	8399	9470
10°	11663	9404	7279	9404
15°	12236	9267	5735	9267
20°	10608	9062	4962	9062
25°	6957	8783	4431	8783
30°	4683	8444	4010	8444
35°	3792	8016	3617	8016
40°	3372	7552	3347	7552
45°	3053	7005	2987	7005
50°	2778	6465	2768	6465
55°	2609	5866	2578	5866
60°	2186	5318	2160	5318
65°	1841	4829	2090	4829
70°	1699	4310	1969	4310
75°	1591	3755	1822	3755
80°	1469	3096	1618	3096
85°	1352	2445	1426	2445



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.3	2.4
10°-20°	154.0	6.6
20°-30°	198.4	8.5
30°-40°	188.6	8.0
40°-50°	161.5	6.9
50°-60°	123.0	5.2
60°-70°	77.8	3.3
70°-80°	38.8	1.7
80°-90°	12.0	0.5
90°-100°	30.3	1.3
100°-110°	94.2	4.0
110°-120°	161.0	6.9
120°-130°	211.8	9.0
130°-140°	237.7	10.1
140°-150°	233.1	9.9
150°-160°	195.5	8.3
160°-170°	129.7	5.5
170°-180°	45.3	1.9
0°-30°	407.7	17.4
0°-40°	596.2	25.4
0°-60°	880.8	37.5
0°-90°	1009.4	43.0
90°-120°	285.6	12.2
90°-150°	968.1	41.2
90°-180°	1339.0	57.0
0°-180°	2348.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	583	583	583	583	583	
5°	648	584	518	584	648	64
15°	732	554	343	554	732	197
25°	390	493	249	493	390	185
35°	192	407	184	407	192	123
45°	134	307	131	307	134	103
55°	93	208	92	208	93	81
65°	48	126	55	126	48	49
75°	26	60	29	60	26	27
85°	7	13	8	13	7	8
90°	14	0	14	0	14	6
95°	25	21	25	21	25	28
105°	90	87	90	87	90	94
115°	162	162	162	162	162	160
125°	236	235	236	235	236	210
135°	308	304	308	304	308	237
145°	373	369	373	369	373	233
155°	425	422	425	422	425	196
165°	460	459	460	459	460	130
175°	476	478	476	478	476	45
180°	479	479	479	479	479	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	606.6	607.1	607.6	606.5	606.5	605.5	603.3	601.7	597.2	596.6	596.6
5°	648.5	648.2	649.0	646.3	642.7	641.9	638.0	632.9	627.7	621.9	620.6
7.5°	690.3	689.6	688.0	687.6	684.8	678.7	672.5	665.9	657.2	648.6	644.4
10°	711.4	718.1	714.0	706.9	708.3	698.8	693.8	685.0	677.7	664.9	662.2
12.5°	732.1	734.8	733.4	729.4	727.6	721.0	714.2	706.6	693.1	681.7	671.7
15°	732.0	735.8	736.9	735.7	736.6	736.3	732.6	726.4	714.6	702.0	691.1
17.5°	678.0	680.6	687.3	691.8	697.5	709.4	715.4	717.6	716.0	708.7	701.1
20°	617.4	613.0	631.6	641.1	649.2	669.4	686.9	693.6	704.3	704.1	702.0
22.5°	531.5	532.5	550.2	561.5	585.1	605.5	625.3	650.4	671.2	684.9	692.9
25°	390.5	398.2	415.8	431.2	457.5	495.3	529.5	569.2	606.6	636.2	664.4
27.5°	293.3	293.9	307.8	322.1	337.7	368.5	411.7	459.1	512.5	556.6	607.3
30°	251.2	249.9	255.8	264.6	277.9	301.8	334.2	380.8	434.1	500.5	559.6
32.5°	221.3	221.4	225.9	232.3	243.3	259.5	281.7	319.6	369.9	435.2	504.5
35°	192.4	192.3	195.5	200.1	204.7	215.1	230.3	250.1	284.8	345.7	416.6
37.5°	171.7	172.5	174.2	177.1	182.2	188.0	197.1	210.4	235.1	271.2	330.7
40°	160.0	160.4	162.6	165.1	168.1	172.5	180.0	190.8	208.8	237.6	281.2
42.5°	149.4	149.7	151.3	153.6	156.0	160.4	166.7	175.9	190.6	212.9	248.9
45°	133.7	133.7	135.1	136.1	138.8	142.8	147.8	155.6	165.7	182.3	206.2
47.5°	119.0	119.0	120.0	121.7	123.4	126.5	131.5	137.9	145.2	158.0	178.4
50°	110.6	110.8	111.4	112.8	113.9	116.6	120.6	126.0	133.7	143.7	160.6
52.5°	103.8	103.7	104.4	105.0	105.8	107.7	110.7	115.5	122.3	131.0	145.1
55°	92.7	91.9	93.2	94.2	94.8	95.6	97.2	100.2	106.1	113.4	123.9
57.5°	79.0	78.6	79.5	80.4	82.4	84.5	86.0	87.8	90.9	96.1	106.6
60°	67.7	67.7	69.5	70.1	72.3	75.2	78.0	79.6	82.7	86.1	93.8
62.5°	57.6	57.8	58.6	59.2	60.5	63.9	67.9	71.5	74.4	77.7	82.8
65°	48.2	48.6	48.6	49.0	49.8	50.6	52.3	55.1	60.2	64.8	68.7
67.5°	40.9	41.0	41.2	41.6	41.7	42.6	43.3	44.6	45.7	50.1	54.9
70°	36.0	36.6	36.5	36.8	37.1	37.5	38.3	38.9	40.8	41.7	44.6
72.5°	31.5	31.9	31.9	32.2	32.7	32.8	33.4	34.1	35.2	36.0	37.6
75°	25.5	25.3	25.5	25.9	26.1	26.3	26.3	27.1	27.7	28.5	29.6
77.5°	19.7	19.9	19.9	19.9	20.0	20.3	20.2	20.6	21.2	21.7	22.1
80°	15.8	16.0	15.8	16.0	16.2	16.4	16.2	16.4	17.0	17.4	17.4
82.5°	12.2	12.3	12.4	12.4	12.5	12.5	12.8	12.8	13.3	13.2	13.4
85°	7.3	7.1	7.1	7.1	7.3	7.5	7.3	7.3	7.5	7.5	7.5
87.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.7	5.5	5.7	5.2
90°	13.7	13.6	13.6	13.5	13.4	13.5	13.6	13.8	14.0	14.2	12.1
92.5°	13.1	13.1	13.0	13.0	13.0	13.0	12.9	12.9	12.8	12.8	12.4
95°	25.1	25.2	25.4	25.6	25.8	25.9	25.9	25.9	25.9	25.9	25.7
97.5°	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.2
100°	55.4	55.5	55.6	55.6	55.7	55.7	55.7	55.7	55.7	55.7	55.5
102.5°	68.9	69.0	69.1	69.2	69.3	69.3	69.2	69.1	69.1	69.0	68.7
105°	89.7	89.7	89.7	89.7	89.7	89.6	89.4	89.3	89.1	88.9	88.7
107.5°	109.2	109.7	110.0	110.5	110.9	111.1	111.0	110.9	110.8	110.8	110.8
110°	124.4	124.7	124.9	125.2	125.5	125.6	125.6	125.6	125.6	125.6	125.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	139.0	139.2	139.4	139.6	139.7	140.0	140.2	140.4	140.6	140.8	140.9
115°	161.6	161.8	162.1	162.4	162.6	162.8	162.9	163.0	163.1	163.2	163.4
117.5°	183.2	183.4	183.7	184.0	184.2	184.5	184.7	184.9	185.1	185.4	185.8
120°	198.4	198.7	198.9	199.2	199.5	199.6	199.6	199.6	199.6	199.6	200.3
122.5°	213.2	213.4	213.7	213.8	214.0	214.2	214.5	214.6	214.9	215.1	215.6
125°	235.9	236.0	236.1	236.2	236.3	236.5	236.7	237.0	237.3	237.6	237.8
127.5°	256.6	256.9	257.2	257.4	257.8	258.1	258.4	258.7	259.0	259.4	259.7
130°	271.5	271.9	272.2	272.6	273.0	273.2	273.4	273.6	273.8	273.9	274.1
132.5°	285.7	286.0	286.2	286.6	286.9	287.2	287.6	288.0	288.4	288.7	288.7
135°	307.8	308.1	308.4	308.6	308.9	309.1	309.2	309.2	309.3	309.4	309.2
137.5°	327.9	328.2	328.6	329.0	329.3	329.6	329.6	329.7	329.8	329.8	329.6
140°	341.8	342.1	342.5	342.9	343.2	343.4	343.4	343.4	343.4	343.4	343.0
142.5°	354.4	354.7	355.1	355.4	355.8	356.0	355.9	355.8	355.8	355.7	355.3
145°	373.3	373.6	374.0	374.3	374.7	374.9	374.8	374.7	374.6	374.5	374.0
147.5°	390.2	390.5	390.8	391.2	391.6	391.6	391.5	391.2	391.0	390.8	390.5
150°	401.2	401.4	401.7	402.0	402.3	402.3	402.0	401.7	401.4	401.2	400.8
152.5°	411.5	411.9	412.1	412.5	412.9	412.9	412.5	412.1	411.9	411.5	411.1
155°	425.4	425.7	426.0	426.2	426.5	426.4	426.0	425.5	425.1	424.6	424.4
157.5°	437.4	437.8	438.2	438.6	439.1	439.0	438.4	437.7	437.2	436.6	436.4
160°	444.8	445.1	445.5	445.9	446.2	446.1	445.6	445.1	444.5	444.0	443.9
162.5°	451.3	451.7	452.1	452.5	453.0	452.9	452.3	451.7	451.0	450.5	450.4
165°	459.8	460.2	460.7	461.1	461.5	461.5	460.8	460.2	459.6	459.0	459.0
167.5°	466.7	467.2	467.6	468.1	468.6	468.5	467.9	467.3	466.6	466.0	466.0
170°	470.3	470.8	471.4	471.9	472.4	472.3	471.7	471.1	470.5	469.8	469.9
172.5°	473.1	473.7	474.2	474.7	475.3	475.3	474.7	474.0	473.4	472.8	472.9
175°	476.4	476.9	477.4	478.0	478.5	478.4	477.8	477.2	476.5	475.9	476.1
177.5°	477.8	478.2	478.7	479.0	479.5	479.5	479.0	478.7	478.2	477.8	477.9
180°	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	596.9	595.6	594.4	591.6	590.0	586.8	586.4	586.2	582.0	577.9	576.8
5°	617.4	614.1	609.3	603.6	597.7	591.7	587.6	584.3	576.2	568.6	564.1
7.5°	638.0	631.1	622.7	612.0	603.0	593.0	585.5	578.8	567.3	556.2	548.8
10°	653.4	642.1	631.0	616.2	604.6	593.3	582.7	573.6	560.7	546.1	535.7
12.5°	663.0	650.5	635.2	620.7	605.7	591.3	577.2	565.5	550.3	535.2	523.0
15°	675.9	662.5	643.9	623.2	604.0	585.1	569.0	554.4	534.6	516.5	501.5
17.5°	686.5	668.1	648.1	624.2	601.9	578.0	557.1	538.5	516.4	494.6	477.0
20°	689.9	671.6	648.5	624.6	598.3	570.2	547.7	527.4	503.7	480.0	459.8
22.5°	687.8	673.6	647.9	619.3	592.4	562.9	537.5	514.0	487.7	463.5	440.1
25°	673.5	668.6	644.4	613.1	582.4	548.1	518.7	493.0	463.1	437.1	411.6
27.5°	640.2	650.7	635.6	602.4	568.1	531.5	498.4	469.1	438.0	408.8	383.4
30°	608.1	632.1	625.7	594.9	556.6	520.6	483.5	452.9	419.7	389.7	364.6
32.5°	564.2	604.0	610.3	584.5	544.9	505.3	466.5	436.0	401.4	369.8	345.3
35°	494.2	553.8	581.1	564.7	525.0	482.2	442.2	406.7	371.8	340.7	316.4
37.5°	410.8	492.0	537.5	538.7	502.2	457.8	414.1	378.9	343.2	312.6	286.3
40°	356.7	444.6	504.0	517.1	486.3	438.4	394.1	358.3	323.5	293.5	263.3
42.5°	308.1	395.7	468.6	491.5	467.1	419.4	375.1	337.6	303.7	275.4	244.5
45°	249.1	325.7	406.1	447.0	433.5	389.3	342.5	306.8	275.1	250.6	221.0
47.5°	210.2	264.1	342.0	397.3	397.1	356.8	310.7	276.6	247.1	224.1	200.2
50°	188.0	235.0	300.8	363.6	368.8	335.0	291.2	257.4	229.9	205.8	186.5
52.5°	168.0	206.8	265.9	326.2	341.2	311.8	269.4	238.2	211.4	189.2	172.8
55°	142.0	172.0	217.0	273.2	296.0	275.3	237.6	208.4	186.7	168.1	153.9
57.5°	120.1	142.6	178.7	224.0	250.4	237.5	206.3	182.6	164.1	147.2	136.1
60°	106.4	124.8	155.3	193.2	222.4	213.3	186.7	164.7	148.9	134.3	123.8
62.5°	93.4	109.2	135.5	166.2	192.9	189.1	167.5	148.9	135.1	121.8	112.9
65°	75.2	86.7	107.2	131.3	152.8	154.5	138.9	126.4	114.0	103.5	95.6
67.5°	59.8	67.4	81.8	102.1	118.2	123.9	114.4	104.8	95.0	86.9	80.0
70°	50.5	56.5	67.1	83.5	98.3	104.3	98.8	91.3	82.8	76.2	70.3
72.5°	40.8	46.8	54.6	66.6	79.3	85.9	83.9	78.6	71.7	66.1	60.5
75°	30.8	32.6	37.9	46.0	55.9	61.6	63.0	60.2	54.7	50.5	47.2
77.5°	22.7	23.9	26.4	30.6	37.1	42.2	44.2	43.9	40.1	37.7	34.6
80°	18.2	18.8	20.1	21.8	26.8	31.8	33.3	33.3	30.6	29.6	26.6
82.5°	13.8	14.3	15.1	16.1	18.3	22.7	24.3	24.6	23.0	21.7	19.3
85°	7.9	7.7	8.1	8.7	9.1	10.3	12.8	13.2	12.8	11.1	10.5
87.5°	4.8	4.5	4.2	3.7	3.7	3.6	4.2	4.8	4.4	4.1	3.9
90°	10.2	8.2	6.2	4.7	3.7	2.6	1.5	0.4	1.5	2.6	3.7
92.5°	11.9	11.4	11.0	10.3	9.5	8.7	8.0	7.2	8.0	8.7	9.5
95°	25.5	25.3	25.1	24.6	23.7	22.8	21.9	21.0	21.9	22.8	23.7
97.5°	42.8	42.4	42.1	41.6	40.8	39.9	39.1	38.3	39.1	39.9	40.8
100°	55.2	54.9	54.7	54.2	53.5	52.7	52.0	51.3	52.0	52.7	53.5
102.5°	68.3	67.9	67.7	67.1	66.6	66.0	65.5	64.9	65.5	66.0	66.6
105°	88.5	88.4	88.2	87.9	87.7	87.4	87.1	86.9	87.1	87.4	87.7
107.5°	110.8	110.8	110.8	110.6	110.2	109.8	109.4	109.0	109.4	109.8	110.2
110°	125.6	125.6	125.6	125.4	124.8	124.3	123.8	123.2	123.8	124.3	124.8





TEST NUMBER: P331766-940

CATALOG NUMBER: S122RDIW-S290D435U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	141.0	141.1	141.2	140.9	140.4	139.8	139.3	138.8	139.3	139.8	140.4
115°	163.5	163.7	163.9	163.7	163.2	162.6	162.1	161.6	162.1	162.6	163.2
117.5°	186.4	186.9	187.3	187.3	186.5	185.8	185.1	184.4	185.1	185.8	186.5
120°	201.0	201.7	202.4	202.4	201.7	201.0	200.3	199.6	200.3	201.0	201.7
122.5°	216.1	216.6	217.1	217.0	216.1	215.2	214.4	213.5	214.4	215.2	216.1
125°	238.1	238.4	238.6	238.4	237.6	236.7	235.9	235.1	235.9	236.7	237.6
127.5°	260.0	260.4	260.6	260.3	259.3	258.2	257.3	256.2	257.3	258.2	259.3
130°	274.3	274.5	274.6	274.1	273.0	271.8	270.6	269.5	270.6	271.8	273.0
132.5°	288.7	288.6	288.6	288.1	287.2	286.2	285.3	284.4	285.3	286.2	287.2
135°	309.1	308.9	308.7	308.2	307.2	306.2	305.2	304.3	305.2	306.2	307.2
137.5°	329.4	329.1	328.9	328.3	327.5	326.7	325.9	325.1	325.9	326.7	327.5
140°	342.5	342.1	341.6	341.0	340.2	339.4	338.6	337.8	338.6	339.4	340.2
142.5°	355.1	354.7	354.5	353.9	353.1	352.3	351.5	350.7	351.5	352.3	353.1
145°	373.4	372.9	372.4	371.8	371.1	370.5	369.9	369.3	369.9	370.5	371.1
147.5°	390.1	389.8	389.4	388.9	388.1	387.4	386.6	385.8	386.6	387.4	388.1
150°	400.5	400.1	399.8	399.3	398.8	398.2	397.7	397.2	397.7	398.2	398.8
152.5°	410.6	410.2	409.8	409.3	408.8	408.2	407.7	407.2	407.7	408.2	408.8
155°	424.1	423.8	423.6	423.3	423.0	422.7	422.4	422.1	422.4	422.7	423.0
157.5°	436.2	436.0	435.9	435.8	435.6	435.4	435.2	435.1	435.2	435.4	435.6
160°	443.8	443.7	443.6	443.5	443.4	443.2	443.0	442.8	443.0	443.2	443.4
162.5°	450.3	450.2	450.1	450.0	450.0	450.0	450.0	449.9	450.0	450.0	450.0
165°	459.0	459.0	459.0	459.0	459.1	459.1	459.2	459.3	459.2	459.1	459.1
167.5°	466.0	466.0	466.0	466.2	466.5	466.7	467.0	467.3	467.0	466.7	466.5
170°	470.0	470.1	470.2	470.4	470.6	470.9	471.2	471.4	471.2	470.9	470.6
172.5°	473.0	473.1	473.1	473.3	473.6	473.9	474.1	474.4	474.1	473.9	473.6
175°	476.3	476.4	476.6	476.9	477.2	477.4	477.7	478.0	477.7	477.4	477.2
177.5°	478.0	478.2	478.3	478.5	478.8	478.9	479.2	479.4	479.2	478.9	478.8
180°	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8



TEST NUMBER: P331766-940

CATALOG NUMBER: S122RDIW-S290D435U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	574.7	573.5	571.4	568.2	566.2	562.8	560.6	561.9	562.2	561.9	561.6
5°	559.3	555.0	549.1	543.4	538.1	532.5	529.2	527.9	525.0	523.4	522.5
7.5°	540.6	533.2	525.0	515.1	506.7	497.8	493.4	491.2	485.4	482.2	479.5
10°	526.6	515.1	506.8	493.8	485.9	474.4	466.5	466.7	458.8	454.3	451.1
12.5°	511.2	498.6	484.7	473.1	462.1	452.8	443.3	439.4	431.1	426.8	418.0
15°	485.7	470.9	456.4	440.6	429.4	415.0	401.3	384.4	370.9	359.1	355.9
17.5°	457.9	439.5	424.9	406.4	387.3	363.1	347.1	337.3	329.2	323.0	318.3
20°	438.7	420.1	404.5	376.6	350.8	334.4	322.7	315.1	306.7	300.0	296.3
22.5°	418.7	399.2	377.9	346.7	326.6	313.5	303.1	294.4	288.6	283.5	280.1
25°	390.1	368.8	333.8	312.4	296.1	282.3	275.1	269.8	263.8	256.6	253.4
27.5°	360.0	326.2	301.0	285.0	269.6	260.6	254.0	246.2	240.8	237.6	234.2
30°	337.4	303.6	284.0	266.5	255.7	245.7	238.0	233.5	228.3	222.8	220.6
32.5°	312.4	285.3	266.4	252.0	240.9	232.4	226.3	219.1	215.3	212.0	207.3
35°	281.2	260.6	243.4	231.8	221.1	214.3	207.2	203.0	196.1	193.2	191.5
37.5°	254.8	237.0	224.2	211.8	203.4	195.8	191.5	184.7	181.7	177.7	173.9
40°	239.8	222.4	210.1	199.9	190.6	184.9	179.5	174.0	169.5	167.7	163.1
42.5°	224.6	210.4	198.0	187.0	180.7	174.7	167.8	163.8	159.2	156.2	153.4
45°	203.6	191.0	180.5	171.4	164.4	158.2	153.7	147.0	144.5	138.6	136.1
47.5°	185.1	173.4	163.4	154.7	148.0	143.9	137.4	132.2	128.0	124.3	121.2
50°	172.0	162.2	152.5	144.8	138.8	132.9	126.2	123.6	117.1	115.2	113.4
52.5°	160.0	150.7	141.9	134.3	128.2	122.5	116.6	113.2	108.8	107.0	105.7
55°	143.2	134.3	125.8	119.1	113.1	107.2	103.5	99.2	97.2	95.8	94.2
57.5°	126.4	118.3	111.8	105.0	98.9	94.3	90.1	87.5	85.4	83.6	81.6
60°	115.7	108.0	102.1	95.8	89.5	85.7	82.5	79.4	77.0	74.1	73.3
62.5°	104.3	97.6	92.2	86.1	80.6	77.1	74.0	71.2	68.2	64.1	63.0
65°	88.7	83.5	77.8	72.7	67.9	64.4	59.9	56.7	55.5	55.1	54.9
67.5°	74.6	69.6	64.7	59.6	55.2	52.0	49.7	49.2	48.3	48.2	47.5
70°	65.2	60.5	55.7	50.8	46.5	46.0	45.2	44.3	43.3	43.0	42.5
72.5°	56.8	52.0	47.1	43.2	41.4	40.7	39.9	39.0	38.3	37.9	37.7
75°	43.5	39.1	35.8	34.4	33.4	32.8	31.6	31.0	30.6	30.0	29.8
77.5°	31.4	28.8	27.4	26.5	25.4	24.8	24.1	23.5	23.0	22.9	22.6
80°	23.9	22.6	21.7	20.4	20.1	19.3	19.1	18.5	18.6	18.0	18.0
82.5°	18.5	17.0	16.1	15.6	15.2	14.5	14.4	14.1	14.1	13.6	13.6
85°	9.5	9.1	8.7	8.3	8.3	7.7	7.9	7.7	7.7	7.3	7.1
87.5°	4.0	4.2	4.2	4.6	5.0	5.3	5.3	5.0	5.0	5.0	4.8
90°	4.7	6.2	8.2	10.2	12.1	14.2	14.0	13.8	13.6	13.5	13.4
92.5°	10.3	11.0	11.4	11.9	12.4	12.8	12.8	12.9	12.9	13.0	13.0
95°	24.6	25.1	25.3	25.5	25.7	25.9	25.9	25.9	25.9	25.9	25.8
97.5°	41.6	42.1	42.4	42.8	43.2	43.4	43.4	43.4	43.4	43.4	43.4
100°	54.2	54.7	54.9	55.2	55.5	55.7	55.7	55.7	55.7	55.7	55.7
102.5°	67.1	67.7	67.9	68.3	68.7	69.0	69.1	69.1	69.2	69.3	69.3
105°	87.9	88.2	88.4	88.5	88.7	88.9	89.1	89.3	89.4	89.6	89.7
107.5°	110.6	110.8	110.8	110.8	110.8	110.8	110.8	110.9	111.0	111.1	110.9
110°	125.4	125.6	125.6	125.6	125.6	125.6	125.6	125.6	125.6	125.6	125.5



TEST NUMBER: P331766-940

CATALOG NUMBER: S122RDIW-S290D435U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	140.9	141.2	141.1	141.0	140.9	140.8	140.6	140.4	140.2	140.0	139.7
115°	163.7	163.9	163.7	163.5	163.4	163.2	163.1	163.0	162.9	162.8	162.6
117.5°	187.3	187.3	186.9	186.4	185.8	185.4	185.1	184.9	184.7	184.5	184.2
120°	202.4	202.4	201.7	201.0	200.3	199.6	199.6	199.6	199.6	199.6	199.5
122.5°	217.0	217.1	216.6	216.1	215.6	215.1	214.9	214.6	214.5	214.2	214.0
125°	238.4	238.6	238.4	238.1	237.8	237.6	237.3	237.0	236.7	236.5	236.3
127.5°	260.3	260.6	260.4	260.0	259.7	259.4	259.0	258.7	258.4	258.1	257.8
130°	274.1	274.6	274.5	274.3	274.1	273.9	273.8	273.6	273.4	273.2	273.0
132.5°	288.1	288.6	288.6	288.7	288.7	288.7	288.4	288.0	287.6	287.2	286.9
135°	308.2	308.7	308.9	309.1	309.2	309.4	309.3	309.2	309.2	309.1	308.9
137.5°	328.3	328.9	329.1	329.4	329.6	329.8	329.8	329.7	329.6	329.6	329.3
140°	341.0	341.6	342.1	342.5	343.0	343.4	343.4	343.4	343.4	343.4	343.2
142.5°	353.9	354.5	354.7	355.1	355.3	355.7	355.8	355.8	355.9	356.0	355.8
145°	371.8	372.4	372.9	373.4	374.0	374.5	374.6	374.7	374.8	374.9	374.7
147.5°	388.9	389.4	389.8	390.1	390.5	390.8	391.0	391.2	391.5	391.6	391.6
150°	399.3	399.8	400.1	400.5	400.8	401.2	401.4	401.7	402.0	402.3	402.3
152.5°	409.3	409.8	410.2	410.6	411.1	411.5	411.9	412.1	412.5	412.9	412.9
155°	423.3	423.6	423.8	424.1	424.4	424.6	425.1	425.5	426.0	426.4	426.5
157.5°	435.8	435.9	436.0	436.2	436.4	436.6	437.2	437.7	438.4	439.0	439.1
160°	443.5	443.6	443.7	443.8	443.9	444.0	444.5	445.1	445.6	446.1	446.2
162.5°	450.0	450.1	450.2	450.3	450.4	450.5	451.0	451.7	452.3	452.9	453.0
165°	459.0	459.0	459.0	459.0	459.0	459.0	459.6	460.2	460.8	461.5	461.5
167.5°	466.2	466.0	466.0	466.0	466.0	466.0	466.6	467.3	467.9	468.5	468.6
170°	470.4	470.2	470.1	470.0	469.9	469.8	470.5	471.1	471.7	472.3	472.4
172.5°	473.3	473.1	473.1	473.0	472.9	472.8	473.4	474.0	474.7	475.3	475.3
175°	476.9	476.6	476.4	476.3	476.1	475.9	476.5	477.2	477.8	478.4	478.5
177.5°	478.5	478.3	478.2	478.0	477.9	477.8	478.2	478.7	479.0	479.5	479.5
180°	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8



TEST NUMBER: P331766-940

CATALOG NUMBER: S122RDIW-S290D435U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	559.8	560.1	559.6	559.9	559.6	560.1	559.8	561.6	561.9	562.2	561.9
5°	521.6	519.2	518.7	518.2	518.7	519.2	521.6	522.5	523.4	525.0	527.9
7.5°	476.0	475.6	474.6	473.1	474.6	475.6	476.0	479.5	482.2	485.4	491.2
10°	446.7	445.6	445.4	444.0	445.4	445.6	446.7	451.1	454.3	458.8	466.7
12.5°	412.2	405.7	405.1	401.5	405.1	405.7	412.2	418.0	426.8	431.1	439.4
15°	351.1	349.8	345.7	343.1	345.7	349.8	351.1	355.9	359.1	370.9	384.4
17.5°	316.0	312.0	310.8	310.2	310.8	312.0	316.0	318.3	323.0	329.2	337.3
20°	293.5	289.9	289.3	288.8	289.3	289.9	293.5	296.3	300.0	306.7	315.1
22.5°	277.9	274.1	272.6	271.3	272.6	274.1	277.9	280.1	283.5	288.6	294.4
25°	251.4	249.9	249.1	248.7	249.1	249.9	251.4	253.4	256.6	263.8	269.8
27.5°	230.6	227.5	226.9	225.8	226.9	227.5	230.6	234.2	237.6	240.8	246.2
30°	218.7	217.8	216.3	215.1	216.3	217.8	218.7	220.6	222.8	228.3	233.5
32.5°	204.8	203.9	202.7	202.2	202.7	203.9	204.8	207.3	212.0	215.3	219.1
35°	189.4	186.5	185.3	183.5	185.3	186.5	189.4	191.5	193.2	196.1	203.0
37.5°	173.1	171.6	169.9	170.5	169.9	171.6	173.1	173.9	177.7	181.7	184.7
40°	160.4	159.4	159.0	158.8	159.0	159.4	160.4	163.1	167.7	169.5	174.0
42.5°	150.3	147.6	146.5	146.5	146.5	147.6	150.3	153.4	156.2	159.2	163.8
45°	135.1	132.5	130.6	130.8	130.6	132.5	135.1	136.1	138.6	144.5	147.0
47.5°	119.5	119.4	118.2	118.6	118.2	119.4	119.5	121.2	124.3	128.0	132.2
50°	112.0	110.8	109.9	110.2	109.9	110.8	112.0	113.4	115.2	117.1	123.6
52.5°	104.9	103.8	103.2	104.1	103.2	103.8	104.9	105.7	107.0	108.8	113.2
55°	93.2	91.9	91.8	91.6	91.8	91.9	93.2	94.2	95.8	97.2	99.2
57.5°	80.1	79.3	78.0	77.6	78.0	79.3	80.1	81.6	83.6	85.4	87.5
60°	70.7	69.1	67.1	66.9	67.1	69.1	70.7	73.3	74.1	77.0	79.4
62.5°	62.1	61.8	61.3	61.3	61.3	61.8	62.1	63.0	64.1	68.2	71.2
65°	54.5	54.3	54.5	54.7	54.5	54.3	54.5	54.9	55.1	55.5	56.7
67.5°	47.4	47.1	46.7	46.9	46.7	47.1	47.4	47.5	48.2	48.3	49.2
70°	42.1	41.9	41.7	41.7	41.7	41.9	42.1	42.5	43.0	43.3	44.3
72.5°	36.9	36.9	36.7	36.6	36.7	36.9	36.9	37.7	37.9	38.3	39.0
75°	29.6	29.2	29.2	29.2	29.2	29.2	29.6	29.8	30.0	30.6	31.0
77.5°	22.6	22.3	22.1	21.9	22.1	22.3	22.6	22.6	22.9	23.0	23.5
80°	17.8	17.7	17.4	17.4	17.4	17.7	17.8	18.0	18.0	18.6	18.5
82.5°	13.6	13.4	13.4	13.2	13.4	13.4	13.6	13.6	13.6	14.1	14.1
85°	7.3	7.5	7.3	7.7	7.3	7.5	7.3	7.1	7.3	7.7	7.7
87.5°	4.8	4.6	4.8	4.7	4.8	4.6	4.8	4.8	5.0	5.0	5.0
90°	13.5	13.6	13.6	13.7	13.6	13.6	13.5	13.4	13.5	13.6	13.8
92.5°	13.0	13.0	13.1	13.1	13.1	13.0	13.0	13.0	13.0	12.9	12.9
95°	25.6	25.4	25.2	25.1	25.2	25.4	25.6	25.8	25.9	25.9	25.9
97.5°	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
100°	55.6	55.6	55.5	55.4	55.5	55.6	55.6	55.7	55.7	55.7	55.7
102.5°	69.2	69.1	69.0	68.9	69.0	69.1	69.2	69.3	69.3	69.2	69.1
105°	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.6	89.4	89.3
107.5°	110.5	110.0	109.7	109.2	109.7	110.0	110.5	110.9	111.1	111.0	110.9
110°	125.2	124.9	124.7	124.4	124.7	124.9	125.2	125.5	125.6	125.6	125.6



TEST NUMBER: P331766-940

CATALOG NUMBER: S122RDIW-S290D435U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	139.6	139.4	139.2	139.0	139.2	139.4	139.6	139.7	140.0	140.2	140.4
115°	162.4	162.1	161.8	161.6	161.8	162.1	162.4	162.6	162.8	162.9	163.0
117.5°	184.0	183.7	183.4	183.2	183.4	183.7	184.0	184.2	184.5	184.7	184.9
120°	199.2	198.9	198.7	198.4	198.7	198.9	199.2	199.5	199.6	199.6	199.6
122.5°	213.8	213.7	213.4	213.2	213.4	213.7	213.8	214.0	214.2	214.5	214.6
125°	236.2	236.1	236.0	235.9	236.0	236.1	236.2	236.3	236.5	236.7	237.0
127.5°	257.4	257.2	256.9	256.6	256.9	257.2	257.4	257.8	258.1	258.4	258.7
130°	272.6	272.2	271.9	271.5	271.9	272.2	272.6	273.0	273.2	273.4	273.6
132.5°	286.6	286.2	286.0	285.7	286.0	286.2	286.6	286.9	287.2	287.6	288.0
135°	308.6	308.4	308.1	307.8	308.1	308.4	308.6	308.9	309.1	309.2	309.2
137.5°	329.0	328.6	328.2	327.9	328.2	328.6	329.0	329.3	329.6	329.6	329.7
140°	342.9	342.5	342.1	341.8	342.1	342.5	342.9	343.2	343.4	343.4	343.4
142.5°	355.4	355.1	354.7	354.4	354.7	355.1	355.4	355.8	356.0	355.9	355.8
145°	374.3	374.0	373.6	373.3	373.6	374.0	374.3	374.7	374.9	374.8	374.7
147.5°	391.2	390.8	390.5	390.2	390.5	390.8	391.2	391.6	391.6	391.5	391.2
150°	402.0	401.7	401.4	401.2	401.4	401.7	402.0	402.3	402.3	402.0	401.7
152.5°	412.5	412.1	411.9	411.5	411.9	412.1	412.5	412.9	412.9	412.5	412.1
155°	426.2	426.0	425.7	425.4	425.7	426.0	426.2	426.5	426.4	426.0	425.5
157.5°	438.6	438.2	437.8	437.4	437.8	438.2	438.6	439.1	439.0	438.4	437.7
160°	445.9	445.5	445.1	444.8	445.1	445.5	445.9	446.2	446.1	445.6	445.1
162.5°	452.5	452.1	451.7	451.3	451.7	452.1	452.5	453.0	452.9	452.3	451.7
165°	461.1	460.7	460.2	459.8	460.2	460.7	461.1	461.5	461.5	460.8	460.2
167.5°	468.1	467.6	467.2	466.7	467.2	467.6	468.1	468.6	468.5	467.9	467.3
170°	471.9	471.4	470.8	470.3	470.8	471.4	471.9	472.4	472.3	471.7	471.1
172.5°	474.7	474.2	473.7	473.1	473.7	474.2	474.7	475.3	475.3	474.7	474.0
175°	478.0	477.4	476.9	476.4	476.9	477.4	478.0	478.5	478.4	477.8	477.2
177.5°	479.0	478.7	478.2	477.8	478.2	478.7	479.0	479.5	479.5	479.0	478.7
180°	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8



TEST NUMBER: P331766-940

CATALOG NUMBER: S122RDIW-S290D435U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	560.6	562.8	566.2	568.2	571.4	573.5	574.7	576.8	577.9	582.0	586.2
5°	529.2	532.5	538.1	543.4	549.1	555.0	559.3	564.1	568.6	576.2	584.3
7.5°	493.4	497.8	506.7	515.1	525.0	533.2	540.6	548.8	556.2	567.3	578.8
10°	466.5	474.4	485.9	493.8	506.8	515.1	526.6	535.7	546.1	560.7	573.6
12.5°	443.3	452.8	462.1	473.1	484.7	498.6	511.2	523.0	535.2	550.3	565.5
15°	401.3	415.0	429.4	440.6	456.4	470.9	485.7	501.5	516.5	534.6	554.4
17.5°	347.1	363.1	387.3	406.4	424.9	439.5	457.9	477.0	494.6	516.4	538.5
20°	322.7	334.4	350.8	376.6	404.5	420.1	438.7	459.8	480.0	503.7	527.4
22.5°	303.1	313.5	326.6	346.7	377.9	399.2	418.7	440.1	463.5	487.7	514.0
25°	275.1	282.3	296.1	312.4	333.8	368.8	390.1	411.6	437.1	463.1	493.0
27.5°	254.0	260.6	269.6	285.0	301.0	326.2	360.0	383.4	408.8	438.0	469.1
30°	238.0	245.7	255.7	266.5	284.0	303.6	337.4	364.6	389.7	419.7	452.9
32.5°	226.3	232.4	240.9	252.0	266.4	285.3	312.4	345.3	369.8	401.4	436.0
35°	207.2	214.3	221.1	231.8	243.4	260.6	281.2	316.4	340.7	371.8	406.7
37.5°	191.5	195.8	203.4	211.8	224.2	237.0	254.8	286.3	312.6	343.2	378.9
40°	179.5	184.9	190.6	199.9	210.1	222.4	239.8	263.3	293.5	323.5	358.3
42.5°	167.8	174.7	180.7	187.0	198.0	210.4	224.6	244.5	275.4	303.7	337.6
45°	153.7	158.2	164.4	171.4	180.5	191.0	203.6	221.0	250.6	275.1	306.8
47.5°	137.4	143.9	148.0	154.7	163.4	173.4	185.1	200.2	224.1	247.1	276.6
50°	126.2	132.9	138.8	144.8	152.5	162.2	172.0	186.5	205.8	229.9	257.4
52.5°	116.6	122.5	128.2	134.3	141.9	150.7	160.0	172.8	189.2	211.4	238.2
55°	103.5	107.2	113.1	119.1	125.8	134.3	143.2	153.9	168.1	186.7	208.4
57.5°	90.1	94.3	98.9	105.0	111.8	118.3	126.4	136.1	147.2	164.1	182.6
60°	82.5	85.7	89.5	95.8	102.1	108.0	115.7	123.8	134.3	148.9	164.7
62.5°	74.0	77.1	80.6	86.1	92.2	97.6	104.3	112.9	121.8	135.1	148.9
65°	59.9	64.4	67.9	72.7	77.8	83.5	88.7	95.6	103.5	114.0	126.4
67.5°	49.7	52.0	55.2	59.6	64.7	69.6	74.6	80.0	86.9	95.0	104.8
70°	45.2	46.0	46.5	50.8	55.7	60.5	65.2	70.3	76.2	82.8	91.3
72.5°	39.9	40.7	41.4	43.2	47.1	52.0	56.8	60.5	66.1	71.7	78.6
75°	31.6	32.8	33.4	34.4	35.8	39.1	43.5	47.2	50.5	54.7	60.2
77.5°	24.1	24.8	25.4	26.5	27.4	28.8	31.4	34.6	37.7	40.1	43.9
80°	19.1	19.3	20.1	20.4	21.7	22.6	23.9	26.6	29.6	30.6	33.3
82.5°	14.4	14.5	15.2	15.6	16.1	17.0	18.5	19.3	21.7	23.0	24.6
85°	7.9	7.7	8.3	8.3	8.7	9.1	9.5	10.5	11.1	12.8	13.2
87.5°	5.3	5.3	5.0	4.6	4.2	4.2	4.0	3.9	4.1	4.4	4.8
90°	14.0	14.2	12.1	10.2	8.2	6.2	4.7	3.7	2.6	1.5	0.4
92.5°	12.8	12.8	12.4	11.9	11.4	11.0	10.3	9.5	8.7	8.0	7.2
95°	25.9	25.9	25.7	25.5	25.3	25.1	24.6	23.7	22.8	21.9	21.0
97.5°	43.4	43.4	43.2	42.8	42.4	42.1	41.6	40.8	39.9	39.1	38.3
100°	55.7	55.7	55.5	55.2	54.9	54.7	54.2	53.5	52.7	52.0	51.3
102.5°	69.1	69.0	68.7	68.3	67.9	67.7	67.1	66.6	66.0	65.5	64.9
105°	89.1	88.9	88.7	88.5	88.4	88.2	87.9	87.7	87.4	87.1	86.9
107.5°	110.8	110.8	110.8	110.8	110.8	110.8	110.6	110.2	109.8	109.4	109.0
110°	125.6	125.6	125.6	125.6	125.6	125.6	125.4	124.8	124.3	123.8	123.2



TEST NUMBER: P331766-940

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	140.6	140.8	140.9	141.0	141.1	141.2	140.9	140.4	139.8	139.3	138.8
115°	163.1	163.2	163.4	163.5	163.7	163.9	163.7	163.2	162.6	162.1	161.6
117.5°	185.1	185.4	185.8	186.4	186.9	187.3	187.3	186.5	185.8	185.1	184.4
120°	199.6	199.6	200.3	201.0	201.7	202.4	202.4	201.7	201.0	200.3	199.6
122.5°	214.9	215.1	215.6	216.1	216.6	217.1	217.0	216.1	215.2	214.4	213.5
125°	237.3	237.6	237.8	238.1	238.4	238.6	238.4	237.6	236.7	235.9	235.1
127.5°	259.0	259.4	259.7	260.0	260.4	260.6	260.3	259.3	258.2	257.3	256.2
130°	273.8	273.9	274.1	274.3	274.5	274.6	274.1	273.0	271.8	270.6	269.5
132.5°	288.4	288.7	288.7	288.7	288.6	288.6	288.1	287.2	286.2	285.3	284.4
135°	309.3	309.4	309.2	309.1	308.9	308.7	308.2	307.2	306.2	305.2	304.3
137.5°	329.8	329.8	329.6	329.4	329.1	328.9	328.3	327.5	326.7	325.9	325.1
140°	343.4	343.4	343.0	342.5	342.1	341.6	341.0	340.2	339.4	338.6	337.8
142.5°	355.8	355.7	355.3	355.1	354.7	354.5	353.9	353.1	352.3	351.5	350.7
145°	374.6	374.5	374.0	373.4	372.9	372.4	371.8	371.1	370.5	369.9	369.3
147.5°	391.0	390.8	390.5	390.1	389.8	389.4	388.9	388.1	387.4	386.6	385.8
150°	401.4	401.2	400.8	400.5	400.1	399.8	399.3	398.8	398.2	397.7	397.2
152.5°	411.9	411.5	411.1	410.6	410.2	409.8	409.3	408.8	408.2	407.7	407.2
155°	425.1	424.6	424.4	424.1	423.8	423.6	423.3	423.0	422.7	422.4	422.1
157.5°	437.2	436.6	436.4	436.2	436.0	435.9	435.8	435.6	435.4	435.2	435.1
160°	444.5	444.0	443.9	443.8	443.7	443.6	443.5	443.4	443.2	443.0	442.8
162.5°	451.0	450.5	450.4	450.3	450.2	450.1	450.0	450.0	450.0	450.0	449.9
165°	459.6	459.0	459.0	459.0	459.0	459.0	459.0	459.1	459.1	459.2	459.3
167.5°	466.6	466.0	466.0	466.0	466.0	466.0	466.2	466.5	466.7	467.0	467.3
170°	470.5	469.8	469.9	470.0	470.1	470.2	470.4	470.6	470.9	471.2	471.4
172.5°	473.4	472.8	472.9	473.0	473.1	473.1	473.3	473.6	473.9	474.1	474.4
175°	476.5	475.9	476.1	476.3	476.4	476.6	476.9	477.2	477.4	477.7	478.0
177.5°	478.2	477.8	477.9	478.0	478.2	478.3	478.5	478.8	478.9	479.2	479.4
180°	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8



TEST NUMBER: P331766-940

CATALOG NUMBER: S122RDIW-S290D435U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	586.4	586.8	590.0	591.6	594.4	595.6	596.9	596.6	596.6	597.2	601.7
5°	587.6	591.7	597.7	603.6	609.3	614.1	617.4	620.6	621.9	627.7	632.9
7.5°	585.5	593.0	603.0	612.0	622.7	631.1	638.0	644.4	648.6	657.2	665.9
10°	582.7	593.3	604.6	616.2	631.0	642.1	653.4	662.2	664.9	677.7	685.0
12.5°	577.2	591.3	605.7	620.7	635.2	650.5	663.0	671.7	681.7	693.1	706.6
15°	569.0	585.1	604.0	623.2	643.9	662.5	675.9	691.1	702.0	714.6	726.4
17.5°	557.1	578.0	601.9	624.2	648.1	668.1	686.5	701.1	708.7	716.0	717.6
20°	547.7	570.2	598.3	624.6	648.5	671.6	689.9	702.0	704.1	704.3	693.6
22.5°	537.5	562.9	592.4	619.3	647.9	673.6	687.8	692.9	684.9	671.2	650.4
25°	518.7	548.1	582.4	613.1	644.4	668.6	673.5	664.4	636.2	606.6	569.2
27.5°	498.4	531.5	568.1	602.4	635.6	650.7	640.2	607.3	556.6	512.5	459.1
30°	483.5	520.6	556.6	594.9	625.7	632.1	608.1	559.6	500.5	434.1	380.8
32.5°	466.5	505.3	544.9	584.5	610.3	604.0	564.2	504.5	435.2	369.9	319.6
35°	442.2	482.2	525.0	564.7	581.1	553.8	494.2	416.6	345.7	284.8	250.1
37.5°	414.1	457.8	502.2	538.7	537.5	492.0	410.8	330.7	271.2	235.1	210.4
40°	394.1	438.4	486.3	517.1	504.0	444.6	356.7	281.2	237.6	208.8	190.8
42.5°	375.1	419.4	467.1	491.5	468.6	395.7	308.1	248.9	212.9	190.6	175.9
45°	342.5	389.3	433.5	447.0	406.1	325.7	249.1	206.2	182.3	165.7	155.6
47.5°	310.7	356.8	397.1	397.3	342.0	264.1	210.2	178.4	158.0	145.2	137.9
50°	291.2	335.0	368.8	363.6	300.8	235.0	188.0	160.6	143.7	133.7	126.0
52.5°	269.4	311.8	341.2	326.2	265.9	206.8	168.0	145.1	131.0	122.3	115.5
55°	237.6	275.3	296.0	273.2	217.0	172.0	142.0	123.9	113.4	106.1	100.2
57.5°	206.3	237.5	250.4	224.0	178.7	142.6	120.1	106.6	96.1	90.9	87.8
60°	186.7	213.3	222.4	193.2	155.3	124.8	106.4	93.8	86.1	82.7	79.6
62.5°	167.5	189.1	192.9	166.2	135.5	109.2	93.4	82.8	77.7	74.4	71.5
65°	138.9	154.5	152.8	131.3	107.2	86.7	75.2	68.7	64.8	60.2	55.1
67.5°	114.4	123.9	118.2	102.1	81.8	67.4	59.8	54.9	50.1	45.7	44.6
70°	98.8	104.3	98.3	83.5	67.1	56.5	50.5	44.6	41.7	40.8	38.9
72.5°	83.9	85.9	79.3	66.6	54.6	46.8	40.8	37.6	36.0	35.2	34.1
75°	63.0	61.6	55.9	46.0	37.9	32.6	30.8	29.6	28.5	27.7	27.1
77.5°	44.2	42.2	37.1	30.6	26.4	23.9	22.7	22.1	21.7	21.2	20.6
80°	33.3	31.8	26.8	21.8	20.1	18.8	18.2	17.4	17.4	17.0	16.4
82.5°	24.3	22.7	18.3	16.1	15.1	14.3	13.8	13.4	13.2	13.3	12.8
85°	12.8	10.3	9.1	8.7	8.1	7.7	7.9	7.5	7.5	7.5	7.3
87.5°	4.2	3.6	3.7	3.7	4.2	4.5	4.8	5.2	5.7	5.5	5.7
90°	1.5	2.6	3.7	4.7	6.2	8.2	10.2	12.1	14.2	14.0	13.8
92.5°	8.0	8.7	9.5	10.3	11.0	11.4	11.9	12.4	12.8	12.8	12.9
95°	21.9	22.8	23.7	24.6	25.1	25.3	25.5	25.7	25.9	25.9	25.9
97.5°	39.1	39.9	40.8	41.6	42.1	42.4	42.8	43.2	43.4	43.4	43.4
100°	52.0	52.7	53.5	54.2	54.7	54.9	55.2	55.5	55.7	55.7	55.7
102.5°	65.5	66.0	66.6	67.1	67.7	67.9	68.3	68.7	69.0	69.1	69.1
105°	87.1	87.4	87.7	87.9	88.2	88.4	88.5	88.7	88.9	89.1	89.3
107.5°	109.4	109.8	110.2	110.6	110.8	110.8	110.8	110.8	110.8	110.8	110.9
110°	123.8	124.3	124.8	125.4	125.6	125.6	125.6	125.6	125.6	125.6	125.6





TEST NUMBER: P331766-940

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	139.3	139.8	140.4	140.9	141.2	141.1	141.0	140.9	140.8	140.6	140.4
115°	162.1	162.6	163.2	163.7	163.9	163.7	163.5	163.4	163.2	163.1	163.0
117.5°	185.1	185.8	186.5	187.3	187.3	186.9	186.4	185.8	185.4	185.1	184.9
120°	200.3	201.0	201.7	202.4	202.4	201.7	201.0	200.3	199.6	199.6	199.6
122.5°	214.4	215.2	216.1	217.0	217.1	216.6	216.1	215.6	215.1	214.9	214.6
125°	235.9	236.7	237.6	238.4	238.6	238.4	238.1	237.8	237.6	237.3	237.0
127.5°	257.3	258.2	259.3	260.3	260.6	260.4	260.0	259.7	259.4	259.0	258.7
130°	270.6	271.8	273.0	274.1	274.6	274.5	274.3	274.1	273.9	273.8	273.6
132.5°	285.3	286.2	287.2	288.1	288.6	288.6	288.7	288.7	288.7	288.4	288.0
135°	305.2	306.2	307.2	308.2	308.7	308.9	309.1	309.2	309.4	309.3	309.2
137.5°	325.9	326.7	327.5	328.3	328.9	329.1	329.4	329.6	329.8	329.8	329.7
140°	338.6	339.4	340.2	341.0	341.6	342.1	342.5	343.0	343.4	343.4	343.4
142.5°	351.5	352.3	353.1	353.9	354.5	354.7	355.1	355.3	355.7	355.8	355.8
145°	369.9	370.5	371.1	371.8	372.4	372.9	373.4	374.0	374.5	374.6	374.7
147.5°	386.6	387.4	388.1	388.9	389.4	389.8	390.1	390.5	390.8	391.0	391.2
150°	397.7	398.2	398.8	399.3	399.8	400.1	400.5	400.8	401.2	401.4	401.7
152.5°	407.7	408.2	408.8	409.3	409.8	410.2	410.6	411.1	411.5	411.9	412.1
155°	422.4	422.7	423.0	423.3	423.6	423.8	424.1	424.4	424.6	425.1	425.5
157.5°	435.2	435.4	435.6	435.8	435.9	436.0	436.2	436.4	436.6	437.2	437.7
160°	443.0	443.2	443.4	443.5	443.6	443.7	443.8	443.9	444.0	444.5	445.1
162.5°	450.0	450.0	450.0	450.0	450.1	450.2	450.3	450.4	450.5	451.0	451.7
165°	459.2	459.1	459.1	459.0	459.0	459.0	459.0	459.0	459.0	459.6	460.2
167.5°	467.0	466.7	466.5	466.2	466.0	466.0	466.0	466.0	466.0	466.6	467.3
170°	471.2	470.9	470.6	470.4	470.2	470.1	470.0	469.9	469.8	470.5	471.1
172.5°	474.1	473.9	473.6	473.3	473.1	473.1	473.0	472.9	472.8	473.4	474.0
175°	477.7	477.4	477.2	476.9	476.6	476.4	476.3	476.1	475.9	476.5	477.2
177.5°	479.2	478.9	478.8	478.5	478.3	478.2	478.0	477.9	477.8	478.2	478.7
180°	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	603.3	605.5	606.5	606.5	607.6	607.1	606.6
5°	638.0	641.9	642.7	646.3	649.0	648.2	648.5
7.5°	672.5	678.7	684.8	687.6	688.0	689.6	690.3
10°	693.8	698.8	708.3	706.9	714.0	718.1	711.4
12.5°	714.2	721.0	727.6	729.4	733.4	734.8	732.1
15°	732.6	736.3	736.6	735.7	736.9	735.8	732.0
17.5°	715.4	709.4	697.5	691.8	687.3	680.6	678.0
20°	686.9	669.4	649.2	641.1	631.6	613.0	617.4
22.5°	625.3	605.5	585.1	561.5	550.2	532.5	531.5
25°	529.5	495.3	457.5	431.2	415.8	398.2	390.5
27.5°	411.7	368.5	337.7	322.1	307.8	293.9	293.3
30°	334.2	301.8	277.9	264.6	255.8	249.9	251.2
32.5°	281.7	259.5	243.3	232.3	225.9	221.4	221.3
35°	230.3	215.1	204.7	200.1	195.5	192.3	192.4
37.5°	197.1	188.0	182.2	177.1	174.2	172.5	171.7
40°	180.0	172.5	168.1	165.1	162.6	160.4	160.0
42.5°	166.7	160.4	156.0	153.6	151.3	149.7	149.4
45°	147.8	142.8	138.8	136.1	135.1	133.7	133.7
47.5°	131.5	126.5	123.4	121.7	120.0	119.0	119.0
50°	120.6	116.6	113.9	112.8	111.4	110.8	110.6
52.5°	110.7	107.7	105.8	105.0	104.4	103.7	103.8
55°	97.2	95.6	94.8	94.2	93.2	91.9	92.7
57.5°	86.0	84.5	82.4	80.4	79.5	78.6	79.0
60°	78.0	75.2	72.3	70.1	69.5	67.7	67.7
62.5°	67.9	63.9	60.5	59.2	58.6	57.8	57.6
65°	52.3	50.6	49.8	49.0	48.6	48.6	48.2
67.5°	43.3	42.6	41.7	41.6	41.2	41.0	40.9
70°	38.3	37.5	37.1	36.8	36.5	36.6	36.0
72.5°	33.4	32.8	32.7	32.2	31.9	31.9	31.5
75°	26.3	26.3	26.1	25.9	25.5	25.3	25.5
77.5°	20.2	20.3	20.0	19.9	19.9	19.9	19.7
80°	16.2	16.4	16.2	16.0	15.8	16.0	15.8
82.5°	12.8	12.5	12.5	12.4	12.4	12.3	12.2
85°	7.3	7.5	7.3	7.1	7.1	7.1	7.3
87.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4
90°	13.6	13.5	13.4	13.5	13.6	13.6	13.7
92.5°	12.9	13.0	13.0	13.0	13.0	13.1	13.1
95°	25.9	25.9	25.8	25.6	25.4	25.2	25.1
97.5°	43.4	43.4	43.4	43.4	43.4	43.4	43.4
100°	55.7	55.7	55.7	55.6	55.6	55.5	55.4
102.5°	69.2	69.3	69.3	69.2	69.1	69.0	68.9
105°	89.4	89.6	89.7	89.7	89.7	89.7	89.7
107.5°	111.0	111.1	110.9	110.5	110.0	109.7	109.2
110°	125.6	125.6	125.5	125.2	124.9	124.7	124.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	140.2	140.0	139.7	139.6	139.4	139.2	139.0
115°	162.9	162.8	162.6	162.4	162.1	161.8	161.6
117.5°	184.7	184.5	184.2	184.0	183.7	183.4	183.2
120°	199.6	199.6	199.5	199.2	198.9	198.7	198.4
122.5°	214.5	214.2	214.0	213.8	213.7	213.4	213.2
125°	236.7	236.5	236.3	236.2	236.1	236.0	235.9
127.5°	258.4	258.1	257.8	257.4	257.2	256.9	256.6
130°	273.4	273.2	273.0	272.6	272.2	271.9	271.5
132.5°	287.6	287.2	286.9	286.6	286.2	286.0	285.7
135°	309.2	309.1	308.9	308.6	308.4	308.1	307.8
137.5°	329.6	329.6	329.3	329.0	328.6	328.2	327.9
140°	343.4	343.4	343.2	342.9	342.5	342.1	341.8
142.5°	355.9	356.0	355.8	355.4	355.1	354.7	354.4
145°	374.8	374.9	374.7	374.3	374.0	373.6	373.3
147.5°	391.5	391.6	391.6	391.2	390.8	390.5	390.2
150°	402.0	402.3	402.3	402.0	401.7	401.4	401.2
152.5°	412.5	412.9	412.9	412.5	412.1	411.9	411.5
155°	426.0	426.4	426.5	426.2	426.0	425.7	425.4
157.5°	438.4	439.0	439.1	438.6	438.2	437.8	437.4
160°	445.6	446.1	446.2	445.9	445.5	445.1	444.8
162.5°	452.3	452.9	453.0	452.5	452.1	451.7	451.3
165°	460.8	461.5	461.5	461.1	460.7	460.2	459.8
167.5°	467.9	468.5	468.6	468.1	467.6	467.2	466.7
170°	471.7	472.3	472.4	471.9	471.4	470.8	470.3
172.5°	474.7	475.3	475.3	474.7	474.2	473.7	473.1
175°	477.8	478.4	478.5	478.0	477.4	476.9	476.4
177.5°	479.0	479.5	479.5	479.0	478.7	478.2	477.8
180°	478.8	478.8	478.8	478.8	478.8	478.8	478.8

(END OF REPORT)