

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: P331769-930

Luminaire Tested: **S122RDIW-S290D710U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331769-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIW-S290D710U930-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 710 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3234.6 lumens  
Efficiency: N/A  
Efficacy: 106.4 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: Semi-Indirect

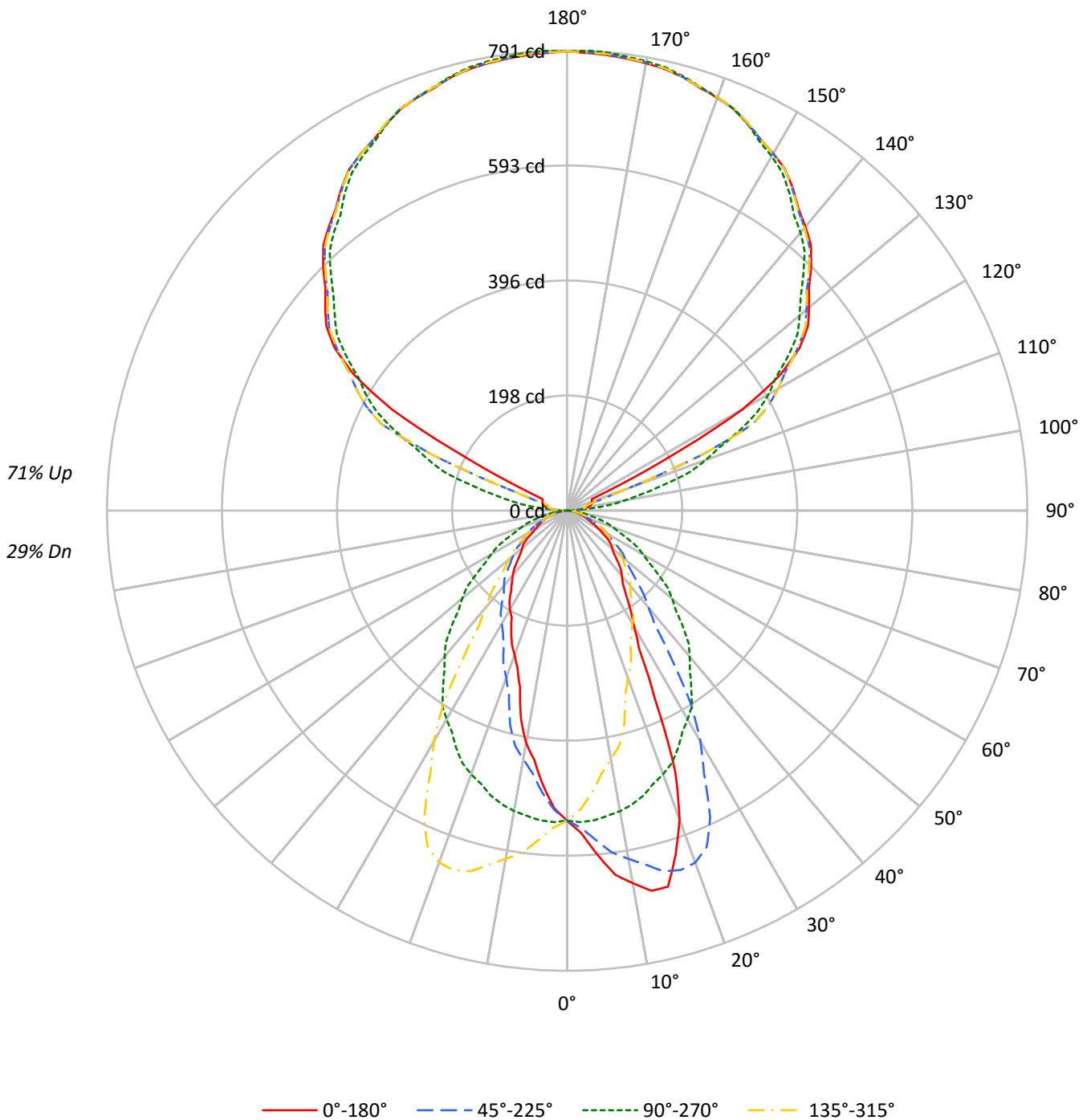
Input Watts (W): 30.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	29
1	93	89	86	83	84	80	77	75	63	61	59	47	46	45	33	32	32	25
2	85	79	73	68	76	71	66	62	56	53	50	42	40	38	29	28	27	22
3	78	69	63	57	70	63	57	52	50	46	42	38	35	33	26	25	24	19
4	72	62	54	49	64	56	49	45	44	40	36	34	31	29	24	22	21	17
5	66	55	48	42	59	50	43	38	40	35	32	31	27	25	22	20	18	15
6	61	49	42	36	54	45	38	34	36	31	28	28	25	22	20	18	17	13
7	56	45	37	32	50	41	34	30	33	28	25	25	22	20	18	16	15	12
8	52	41	33	28	47	37	31	26	30	25	22	23	20	18	17	15	13	11
9	49	37	30	25	44	34	28	23	27	23	20	21	18	16	16	14	12	10
10	45	34	27	23	41	31	25	21	25	21	18	20	17	14	15	13	11	9

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

	0°	90°	180°	270°
0°	8606	8606	8606	8606
5°	9611	8660	7679	8660
10°	10663	8599	6655	8599
15°	11188	8473	5244	8473
20°	9699	8285	4538	8285
25°	6360	8031	4051	8031
30°	4282	7720	3667	7720
35°	3467	7330	3307	7330
40°	3084	6905	3060	6905
45°	2790	6405	2731	6405
50°	2539	5913	2532	5913
55°	2387	5362	2356	5362
60°	1999	4863	1973	4863
65°	1685	4413	1910	4413
70°	1553	3942	1803	3942
75°	1454	3431	1666	3431
80°	1339	2827	1478	2827
85°	1241	2242	1297	2242



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.5	1.6
10°-20°	140.8	4.4
20°-30°	181.4	5.6
30°-40°	172.4	5.3
40°-50°	147.7	4.6
50°-60°	112.5	3.5
60°-70°	71.1	2.2
70°-80°	35.5	1.1
80°-90°	11.2	0.3
90°-100°	26.3	0.8
100°-110°	96.5	3.0
110°-120°	257.9	8.0
120°-130°	425.7	13.2
130°-140°	452.8	14.0
140°-150°	420.8	13.0
150°-160°	338.4	10.5
160°-170°	218.0	6.7
170°-180°	75.1	2.3
0°-30°	372.7	11.5
0°-40°	545.1	16.9
0°-60°	805.3	24.9
0°-90°	923.1	28.5
90°-120°	380.7	11.8
90°-150°	1680.1	51.9
90°-180°	2312.0	71.5
0°-180°	3234.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	533	533	533	533	533	
5°	593	534	474	534	593	59
15°	669	507	314	507	669	181
25°	357	451	227	451	357	169
35°	176	372	168	372	176	113
45°	122	280	120	280	122	95
55°	85	190	84	190	85	74
65°	44	116	50	116	44	45
75°	23	55	27	55	23	25
85°	7	12	7	12	7	8
90°	15	1	15	1	15	7
95°	24	37	24	37	24	23
105°	43	174	43	174	43	45
115°	47	328	47	328	47	117
125°	488	464	488	464	488	422
135°	593	574	593	574	593	457
145°	676	666	676	666	676	423
155°	734	733	734	733	734	339
165°	771	773	771	773	771	218
175°	786	790	786	790	786	75
180°	789	789	789	789	789	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	554.6	555.1	555.5	554.5	554.5	553.6	551.6	550.2	546.0	545.4	545.4
5°	593.0	592.6	593.4	590.9	587.7	586.9	583.3	578.7	573.9	568.6	567.4
7.5°	631.1	630.6	629.1	628.7	626.1	620.5	614.9	608.9	600.9	593.0	589.1
10°	650.4	656.6	652.8	646.4	647.6	639.0	634.3	626.3	619.6	608.0	605.4
12.5°	669.4	671.8	670.6	666.9	665.3	659.3	653.0	646.0	633.7	623.3	614.2
15°	669.3	672.8	673.8	672.6	673.5	673.2	669.8	664.1	653.4	641.9	631.9
17.5°	619.9	622.3	628.4	632.5	637.7	648.7	654.1	656.2	654.6	648.0	641.0
20°	564.5	560.4	577.5	586.1	593.5	612.0	628.0	634.1	643.9	643.8	641.9
22.5°	485.9	486.9	503.0	513.4	535.0	553.6	571.7	594.7	613.7	626.2	633.6
25°	357.0	364.1	380.2	394.3	418.3	452.8	484.1	520.4	554.6	581.7	607.5
27.5°	268.2	268.7	281.4	294.5	308.8	337.0	376.4	419.7	468.6	508.9	555.2
30°	229.7	228.5	233.9	241.9	254.1	276.0	305.6	348.1	396.9	457.6	511.7
32.5°	202.4	202.4	206.5	212.4	222.5	237.3	257.6	292.2	338.2	397.9	461.3
35°	175.9	175.8	178.7	183.0	187.2	196.7	210.6	228.7	260.4	316.1	380.9
37.5°	156.9	157.8	159.2	161.9	166.6	171.9	180.2	192.4	214.9	247.9	302.4
40°	146.3	146.7	148.7	150.9	153.7	157.8	164.6	174.5	190.9	217.2	257.1
42.5°	136.6	136.9	138.4	140.4	142.6	146.7	152.4	160.9	174.2	194.7	227.6
45°	122.2	122.2	123.5	124.4	126.9	130.5	135.2	142.3	151.5	166.6	188.5
47.5°	108.8	108.8	109.7	111.3	112.8	115.7	120.3	126.0	132.7	144.5	163.1
50°	101.1	101.3	101.8	103.1	104.1	106.6	110.2	115.2	122.2	131.3	146.8
52.5°	94.9	94.8	95.5	96.0	96.7	98.5	101.2	105.6	111.9	119.8	132.6
55°	84.8	84.1	85.2	86.1	86.7	87.4	88.9	91.6	97.0	103.7	113.3
57.5°	72.2	71.9	72.7	73.5	75.3	77.3	78.6	80.3	83.1	87.9	97.4
60°	61.9	61.9	63.5	64.1	66.1	68.7	71.3	72.8	75.6	78.7	85.8
62.5°	52.7	52.8	53.6	54.1	55.3	58.5	62.1	65.4	68.0	71.0	75.7
65°	44.1	44.4	44.4	44.8	45.6	46.3	47.8	50.4	55.0	59.3	62.8
67.5°	37.4	37.5	37.7	38.0	38.2	39.0	39.6	40.8	41.8	45.8	50.2
70°	32.9	33.5	33.3	33.7	33.9	34.2	35.0	35.5	37.3	38.2	40.8
72.5°	28.8	29.2	29.2	29.4	29.9	30.0	30.6	31.1	32.2	32.9	34.4
75°	23.3	23.2	23.3	23.7	23.9	24.1	24.1	24.8	25.4	26.1	27.1
77.5°	18.0	18.2	18.2	18.2	18.3	18.6	18.5	18.8	19.4	19.8	20.2
80°	14.4	14.6	14.4	14.6	14.8	15.0	14.8	15.0	15.6	15.9	15.9
82.5°	11.2	11.3	11.3	11.3	11.4	11.4	11.7	11.7	12.1	12.1	12.2
85°	6.7	6.5	6.5	6.5	6.7	6.8	6.7	6.7	6.8	6.8	6.8
87.5°	5.5	5.5	5.5	5.5	5.4	5.3	5.2	5.2	4.9	5.0	4.6
90°	15.4	15.2	14.9	14.7	14.4	13.9	13.3	12.7	12.1	11.4	10.4
92.5°	15.4	15.2	15.1	14.9	14.8	14.6	14.3	13.9	13.5	13.2	12.7
95°	24.5	24.7	24.8	24.9	25.0	24.8	24.1	23.6	22.9	22.3	21.4
97.5°	32.8	32.6	32.4	32.3	32.1	31.8	31.3	30.8	30.3	29.8	27.7
100°	38.2	38.0	37.7	37.5	37.3	36.6	35.5	34.6	33.5	32.5	30.4
102.5°	41.0	40.6	40.3	39.9	39.5	38.7	37.4	36.1	34.7	33.4	31.4
105°	43.4	42.9	42.4	41.8	41.3	40.4	39.0	37.6	36.2	34.8	32.5
107.5°	44.6	44.1	43.6	43.1	42.6	43.0	44.5	45.9	47.3	48.8	50.3
110°	45.1	44.6	44.1	43.5	43.0	49.2	61.8	74.5	87.2	99.9	136.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	45.6	45.2	44.8	44.4	43.9	66.9	113.2	159.4	205.7	251.9	261.0
115°	46.8	55.9	65.1	74.2	83.3	117.2	175.9	234.7	293.4	352.1	348.9
117.5°	191.1	221.1	251.1	281.1	311.1	333.2	347.4	361.7	375.9	390.0	387.8
120°	348.1	365.3	382.4	399.5	416.6	424.4	422.9	421.4	419.9	418.3	416.0
122.5°	434.5	437.8	441.1	444.4	447.8	449.0	448.0	447.1	446.2	445.3	442.8
125°	488.0	487.6	487.2	486.8	486.5	485.8	484.9	484.0	483.1	482.2	479.9
127.5°	521.8	521.7	521.6	521.5	521.5	520.8	519.5	518.2	516.9	515.6	513.8
130°	542.8	542.9	543.1	543.2	543.3	542.7	541.3	539.9	538.5	537.1	535.7
132.5°	563.4	563.5	563.6	563.7	563.9	563.3	562.1	560.9	559.7	558.6	557.2
135°	593.0	593.3	593.5	593.8	594.0	593.5	592.2	591.0	589.7	588.5	587.3
137.5°	620.0	620.5	620.9	621.3	621.8	621.4	620.1	618.9	617.7	616.4	615.1
140°	637.0	637.6	638.2	638.9	639.5	639.3	638.1	637.0	635.9	634.7	633.2
142.5°	653.4	654.0	654.7	655.3	655.9	655.7	654.7	653.6	652.6	651.6	650.0
145°	676.4	676.9	677.6	678.2	678.9	678.7	677.8	676.9	676.1	675.2	673.0
147.5°	696.5	697.1	697.7	698.1	698.7	698.6	698.0	697.3	696.7	695.9	693.8
150°	708.9	709.5	710.1	710.8	711.4	711.3	710.6	709.8	709.1	708.3	706.3
152.5°	719.3	720.2	721.1	721.9	722.8	722.8	722.0	721.2	720.5	719.7	717.8
155°	734.0	735.0	736.1	737.0	738.0	738.2	737.4	736.6	735.9	735.2	733.6
157.5°	747.3	748.4	749.3	750.3	751.3	751.4	750.5	749.7	748.8	747.9	746.8
160°	755.1	756.0	756.8	757.7	758.6	758.7	758.0	757.2	756.4	755.7	754.9
162.5°	761.5	762.5	763.7	764.8	765.9	766.0	765.1	764.3	763.4	762.5	761.9
165°	771.1	772.0	772.9	773.7	774.6	774.6	773.7	772.9	772.0	771.1	770.7
167.5°	777.1	778.3	779.4	780.6	781.7	781.8	781.0	780.1	779.2	778.3	778.0
170°	780.8	782.0	783.1	784.2	785.4	785.5	784.6	783.7	782.9	782.0	781.7
172.5°	783.5	784.6	785.8	786.9	788.1	788.2	787.3	786.4	785.5	784.6	784.4
175°	785.9	787.2	788.5	789.7	791.0	791.2	790.3	789.5	788.6	787.7	787.4
177.5°	787.4	788.3	789.2	790.2	791.1	791.2	790.4	789.8	789.0	788.3	788.2
180°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	545.8	544.5	543.5	540.9	539.5	536.5	536.1	536.0	532.1	528.4	527.3
5°	564.5	561.5	557.1	551.9	546.5	541.0	537.3	534.3	526.8	519.8	515.8
7.5°	583.3	577.0	569.3	559.5	551.3	542.2	535.3	529.2	518.7	508.6	501.8
10°	597.5	587.1	576.9	563.4	552.8	542.4	532.8	524.5	512.7	499.3	489.8
12.5°	606.2	594.8	580.7	567.5	553.8	540.6	527.7	517.1	503.1	489.3	478.2
15°	618.0	605.8	588.7	569.8	552.3	535.0	520.2	506.9	488.8	472.2	458.5
17.5°	627.7	610.8	592.6	570.7	550.3	528.5	509.4	492.4	472.1	452.2	436.1
20°	630.8	614.1	593.0	571.1	547.1	521.3	500.8	482.2	460.6	438.9	420.4
22.5°	628.8	615.9	592.4	566.2	541.6	514.7	491.5	469.9	445.9	423.8	402.4
25°	615.8	611.3	589.1	560.6	532.5	501.2	474.3	450.8	423.4	399.7	376.3
27.5°	585.3	594.9	581.1	550.7	519.4	485.9	455.7	428.9	400.5	373.8	350.6
30°	556.0	578.0	572.1	543.9	508.9	476.0	442.1	414.1	383.8	356.3	333.4
32.5°	515.8	552.2	558.0	534.4	498.2	462.0	426.5	398.7	367.0	338.1	315.7
35°	451.8	506.3	531.3	516.3	480.0	440.9	404.3	371.9	340.0	311.5	289.3
37.5°	375.6	449.8	491.5	492.5	459.2	418.6	378.6	346.4	313.8	285.8	261.8
40°	326.1	406.5	460.8	472.8	444.7	400.8	360.4	327.6	295.8	268.3	240.8
42.5°	281.7	361.7	428.4	449.4	427.1	383.4	342.9	308.7	277.7	251.8	223.6
45°	227.8	297.8	371.3	408.7	396.3	356.0	313.2	280.5	251.5	229.1	202.0
47.5°	192.2	241.5	312.7	363.2	363.1	326.2	284.1	252.9	225.9	204.9	183.0
50°	171.9	214.8	275.0	332.4	337.2	306.3	266.3	235.4	210.2	188.2	170.6
52.5°	153.6	189.1	243.1	298.2	311.9	285.1	246.3	217.8	193.3	173.0	158.0
55°	129.8	157.3	198.4	249.8	270.6	251.7	217.2	190.5	170.7	153.7	140.7
57.5°	109.8	130.4	163.4	204.8	228.9	217.1	188.7	167.0	150.0	134.6	124.4
60°	97.3	114.1	142.0	176.7	203.3	195.0	170.7	150.6	136.2	122.8	113.2
62.5°	85.4	99.9	123.8	152.0	176.3	172.9	153.1	136.2	123.5	111.4	103.2
65°	68.7	79.2	98.0	120.0	139.7	141.3	127.0	115.5	104.3	94.7	87.4
67.5°	54.7	61.6	74.8	93.4	108.0	113.3	104.6	95.8	86.8	79.4	73.1
70°	46.1	51.7	61.3	76.3	89.8	95.4	90.3	83.5	75.7	69.6	64.2
72.5°	37.3	42.8	49.9	60.9	72.5	78.5	76.7	71.8	65.6	60.4	55.4
75°	28.1	29.8	34.7	42.1	51.1	56.3	57.6	55.0	50.0	46.1	43.1
77.5°	20.8	21.9	24.1	28.0	33.9	38.6	40.4	40.1	36.7	34.5	31.6
80°	16.6	17.2	18.3	20.0	24.5	29.1	30.4	30.4	28.0	27.1	24.3
82.5°	12.6	13.0	13.8	14.7	16.7	20.8	22.3	22.5	21.0	19.8	17.6
85°	7.3	7.0	7.4	8.0	8.3	9.5	11.7	12.1	11.7	10.2	9.6
87.5°	4.4	4.3	4.2	3.8	3.6	3.5	3.9	4.4	4.1	3.9	3.9
90°	9.4	8.4	7.3	6.1	4.7	3.3	2.0	0.6	2.0	3.3	4.7
92.5°	12.2	11.7	11.3	11.0	11.2	11.3	11.4	11.5	11.4	11.3	11.2
95°	20.5	19.6	18.7	20.4	24.5	28.7	32.9	37.1	32.9	28.7	24.5
97.5°	25.7	23.6	21.6	26.4	38.2	50.1	61.8	73.6	61.8	50.1	38.2
100°	28.2	26.1	23.9	31.6	48.9	66.3	83.6	101.0	83.6	66.3	48.9
102.5°	69.5	87.6	105.6	116.4	120.1	123.8	127.5	131.2	127.5	123.8	120.1
105°	104.0	138.7	173.3	188.7	184.9	181.2	177.3	173.5	177.3	181.2	184.9
107.5°	131.8	173.3	214.8	234.1	231.0	228.0	224.9	221.8	224.9	228.0	231.0
110°	173.2	209.9	246.5	263.5	260.8	258.2	255.5	252.8	255.5	258.2	260.8





TEST NUMBER: P331769-930

CATALOG NUMBER: S122RDIW-S290D710U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	270.0	279.1	288.1	291.5	289.1	286.8	284.5	282.1	284.5	286.8	289.1
115°	345.8	342.7	339.5	336.8	334.7	332.5	330.4	328.2	330.4	332.5	334.7
117.5°	385.7	383.5	381.3	379.0	376.6	374.2	371.8	369.4	371.8	374.2	376.6
120°	413.8	411.5	409.2	407.2	405.2	403.3	401.5	399.5	401.5	403.3	405.2
122.5°	440.3	437.8	435.4	433.1	431.1	429.1	427.1	425.1	427.1	429.1	431.1
125°	477.4	475.1	472.6	470.6	469.0	467.3	465.7	464.0	465.7	467.3	469.0
127.5°	512.0	510.2	508.4	506.6	504.8	503.0	501.1	499.3	501.1	503.0	504.8
130°	534.3	532.9	531.5	529.8	527.7	525.7	523.7	521.6	523.7	525.7	527.7
132.5°	555.7	554.3	552.9	551.4	549.7	548.0	546.3	544.5	546.3	548.0	549.7
135°	586.2	585.1	583.9	582.3	580.2	578.2	576.2	574.2	576.2	578.2	580.2
137.5°	613.8	612.5	611.2	609.8	608.5	607.1	605.6	604.2	605.6	607.1	608.5
140°	631.9	630.5	629.1	627.9	626.9	625.8	624.8	623.9	624.8	625.8	626.9
142.5°	648.4	646.8	645.1	643.9	643.0	642.1	641.2	640.3	641.2	642.1	643.0
145°	670.9	668.7	666.6	665.5	665.7	665.9	665.9	666.1	665.9	665.9	665.7
147.5°	691.7	689.6	687.5	686.6	687.1	687.6	688.1	688.5	688.1	687.6	687.1
150°	704.3	702.2	700.2	699.6	700.5	701.4	702.3	703.2	702.3	701.4	700.5
152.5°	715.8	714.0	712.0	711.5	712.5	713.5	714.5	715.5	714.5	713.5	712.5
155°	732.1	730.6	729.0	728.9	730.0	731.2	732.3	733.4	732.3	731.2	730.0
157.5°	745.8	744.7	743.6	743.6	744.5	745.5	746.5	747.5	746.5	745.5	744.5
160°	754.2	753.4	752.6	752.6	753.4	754.2	754.9	755.7	754.9	754.2	753.4
162.5°	761.2	760.5	759.9	759.9	760.7	761.5	762.2	763.0	762.2	761.5	760.7
165°	770.3	770.0	769.6	769.7	770.5	771.3	772.0	772.8	772.0	771.3	770.5
167.5°	777.6	777.2	776.9	777.1	777.8	778.6	779.3	780.1	779.3	778.6	777.8
170°	781.5	781.1	780.9	781.1	782.0	782.7	783.4	784.2	783.4	782.7	782.0
172.5°	784.2	783.9	783.7	783.9	784.6	785.5	786.2	786.9	786.2	785.5	784.6
175°	787.2	786.8	786.6	786.9	787.8	788.7	789.6	790.5	789.6	788.7	787.8
177.5°	788.1	788.0	787.9	788.2	789.0	789.6	790.4	791.1	790.4	789.6	789.0
180°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8



TEST NUMBER: P331769-930

CATALOG NUMBER: S122RDIW-S290D710U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	525.5	524.4	522.4	519.5	517.7	514.6	512.6	513.7	514.0	513.7	513.5
5°	511.4	507.4	502.1	496.8	492.0	486.9	483.9	482.7	480.0	478.6	477.8
7.5°	494.2	487.5	480.0	470.9	463.3	455.2	451.1	449.1	443.8	440.9	438.4
10°	481.5	470.9	463.3	451.5	444.3	433.7	426.5	426.7	419.5	415.4	412.5
12.5°	467.4	455.8	443.2	432.5	422.5	414.0	405.3	401.8	394.1	390.2	382.2
15°	444.1	430.6	417.3	402.8	392.6	379.4	366.9	351.5	339.1	328.3	325.4
17.5°	418.7	401.9	388.5	371.5	354.1	332.0	317.4	308.4	301.0	295.3	291.1
20°	401.1	384.1	369.8	344.3	320.7	305.7	295.1	288.1	280.4	274.3	270.9
22.5°	382.8	365.0	345.5	317.0	298.6	286.7	277.1	269.2	263.9	259.2	256.1
25°	356.7	337.2	305.2	285.6	270.8	258.1	251.5	246.7	241.2	234.6	231.7
27.5°	329.1	298.2	275.2	260.6	246.5	238.3	232.3	225.1	220.1	217.2	214.1
30°	308.5	277.6	259.7	243.7	233.7	224.6	217.6	213.5	208.7	203.7	201.7
32.5°	285.6	260.9	243.6	230.4	220.2	212.5	206.9	200.3	196.9	193.8	189.6
35°	257.1	238.3	222.6	211.9	202.2	195.9	189.5	185.6	179.3	176.7	175.0
37.5°	232.9	216.7	205.0	193.6	186.0	179.0	175.0	168.8	166.2	162.5	159.0
40°	219.2	203.3	192.1	182.8	174.2	169.1	164.1	159.1	155.0	153.4	149.1
42.5°	205.4	192.4	181.1	171.0	165.3	159.7	153.4	149.8	145.5	142.8	140.2
45°	186.1	174.6	165.0	156.7	150.3	144.6	140.6	134.4	132.1	126.7	124.4
47.5°	169.3	158.6	149.4	141.5	135.3	131.6	125.6	120.8	117.0	113.7	110.8
50°	157.3	148.3	139.4	132.4	126.9	121.5	115.4	113.0	107.0	105.3	103.7
52.5°	146.3	137.8	129.7	122.8	117.2	112.0	106.6	103.5	99.5	97.8	96.6
55°	130.9	122.8	115.0	108.9	103.4	98.0	94.7	90.7	88.9	87.6	86.1
57.5°	115.5	108.2	102.2	96.0	90.4	86.2	82.3	80.0	78.1	76.4	74.6
60°	105.7	98.7	93.4	87.6	81.9	78.4	75.4	72.6	70.4	67.8	67.0
62.5°	95.4	89.2	84.3	78.7	73.7	70.5	67.7	65.1	62.4	58.6	57.6
65°	81.1	76.3	71.1	66.4	62.0	58.9	54.8	51.9	50.7	50.4	50.2
67.5°	68.2	63.7	59.2	54.5	50.5	47.5	45.4	45.0	44.2	44.0	43.5
70°	59.6	55.4	51.0	46.5	42.6	42.1	41.3	40.5	39.6	39.3	38.9
72.5°	51.9	47.5	43.0	39.5	37.8	37.2	36.4	35.6	35.1	34.7	34.5
75°	39.8	35.7	32.8	31.5	30.6	30.0	28.9	28.4	28.0	27.4	27.2
77.5°	28.7	26.3	25.0	24.2	23.2	22.7	22.0	21.4	21.0	21.0	20.6
80°	21.9	20.7	19.8	18.7	18.3	17.6	17.4	16.9	17.0	16.5	16.5
82.5°	17.0	15.6	14.8	14.3	13.9	13.3	13.1	12.9	12.9	12.5	12.5
85°	8.7	8.3	8.0	7.6	7.6	7.0	7.3	7.0	7.0	6.7	6.5
87.5°	4.1	4.2	4.1	4.2	4.5	4.5	4.6	4.6	4.7	4.9	4.8
90°	6.1	7.3	8.4	9.4	10.4	11.4	12.1	12.7	13.3	13.9	14.4
92.5°	11.0	11.3	11.7	12.2	12.7	13.2	13.5	13.9	14.3	14.6	14.8
95°	20.4	18.7	19.6	20.5	21.4	22.3	22.9	23.6	24.1	24.8	25.0
97.5°	26.4	21.6	23.6	25.7	27.7	29.8	30.3	30.8	31.3	31.8	32.1
100°	31.6	23.9	26.1	28.2	30.4	32.5	33.5	34.6	35.5	36.6	37.3
102.5°	116.4	105.6	87.6	69.5	51.4	33.4	34.7	36.1	37.4	38.7	39.5
105°	188.7	173.3	138.7	104.0	69.5	34.8	36.2	37.6	39.0	40.4	41.3
107.5°	234.1	214.8	173.3	131.8	90.3	48.8	47.3	45.9	44.5	43.0	42.6
110°	263.5	246.5	209.9	173.2	136.6	99.9	87.2	74.5	61.8	49.2	43.0



TEST NUMBER: P331769-930

CATALOG NUMBER: S122RDIW-S290D710U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	291.5	288.1	279.1	270.0	261.0	251.9	205.7	159.4	113.2	66.9	43.9
115°	336.8	339.5	342.7	345.8	348.9	352.1	293.4	234.7	175.9	117.2	83.3
117.5°	379.0	381.3	383.5	385.7	387.8	390.0	375.9	361.7	347.4	333.2	311.1
120°	407.2	409.2	411.5	413.8	416.0	418.3	419.9	421.4	422.9	424.4	416.6
122.5°	433.1	435.4	437.8	440.3	442.8	445.3	446.2	447.1	448.0	449.0	447.8
125°	470.6	472.6	475.1	477.4	479.9	482.2	483.1	484.0	484.9	485.8	486.5
127.5°	506.6	508.4	510.2	512.0	513.8	515.6	516.9	518.2	519.5	520.8	521.5
130°	529.8	531.5	532.9	534.3	535.7	537.1	538.5	539.9	541.3	542.7	543.3
132.5°	551.4	552.9	554.3	555.7	557.2	558.6	559.7	560.9	562.1	563.3	563.9
135°	582.3	583.9	585.1	586.2	587.3	588.5	589.7	591.0	592.2	593.5	594.0
137.5°	609.8	611.2	612.5	613.8	615.1	616.4	617.7	618.9	620.1	621.4	621.8
140°	627.9	629.1	630.5	631.9	633.2	634.7	635.9	637.0	638.1	639.3	639.5
142.5°	643.9	645.1	646.8	648.4	650.0	651.6	652.6	653.6	654.7	655.7	655.9
145°	665.5	666.6	668.7	670.9	673.0	675.2	676.1	676.9	677.8	678.7	678.9
147.5°	686.6	687.5	689.6	691.7	693.8	695.9	696.7	697.3	698.0	698.6	698.7
150°	699.6	700.2	702.2	704.3	706.3	708.3	709.1	709.8	710.6	711.3	711.4
152.5°	711.5	712.0	714.0	715.8	717.8	719.7	720.5	721.2	722.0	722.8	722.8
155°	728.9	729.0	730.6	732.1	733.6	735.2	735.9	736.6	737.4	738.2	738.0
157.5°	743.6	743.6	744.7	745.8	746.8	747.9	748.8	749.7	750.5	751.4	751.3
160°	752.6	752.6	753.4	754.2	754.9	755.7	756.4	757.2	758.0	758.7	758.6
162.5°	759.9	759.9	760.5	761.2	761.9	762.5	763.4	764.3	765.1	766.0	765.9
165°	769.7	769.6	770.0	770.3	770.7	771.1	772.0	772.9	773.7	774.6	774.6
167.5°	777.1	776.9	777.2	777.6	778.0	778.3	779.2	780.1	781.0	781.8	781.7
170°	781.1	780.9	781.1	781.5	781.7	782.0	782.9	783.7	784.6	785.5	785.4
172.5°	783.9	783.7	783.9	784.2	784.4	784.6	785.5	786.4	787.3	788.2	788.1
175°	786.9	786.6	786.8	787.2	787.4	787.7	788.6	789.5	790.3	791.2	791.0
177.5°	788.2	787.9	788.0	788.1	788.2	788.3	789.0	789.8	790.4	791.2	791.1
180°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8



TEST NUMBER: P331769-930

CATALOG NUMBER: S122RDIW-S290D710U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	511.8	512.1	511.7	511.9	511.7	512.1	511.8	513.5	513.7	514.0	513.7
5°	476.9	474.7	474.3	473.8	474.3	474.7	476.9	477.8	478.6	480.0	482.7
7.5°	435.2	434.9	433.9	432.6	433.9	434.9	435.2	438.4	440.9	443.8	449.1
10°	408.4	407.4	407.2	405.9	407.2	407.4	408.4	412.5	415.4	419.5	426.7
12.5°	376.9	371.0	370.4	367.1	370.4	371.0	376.9	382.2	390.2	394.1	401.8
15°	321.0	319.8	316.1	313.7	316.1	319.8	321.0	325.4	328.3	339.1	351.5
17.5°	288.9	285.3	284.1	283.6	284.1	285.3	288.9	291.1	295.3	301.0	308.4
20°	268.3	265.1	264.5	264.1	264.5	265.1	268.3	270.9	274.3	280.4	288.1
22.5°	254.1	250.6	249.2	248.1	249.2	250.6	254.1	256.1	259.2	263.9	269.2
25°	229.8	228.5	227.8	227.4	227.8	228.5	229.8	231.7	234.6	241.2	246.7
27.5°	210.8	208.0	207.4	206.4	207.4	208.0	210.8	214.1	217.2	220.1	225.1
30°	200.0	199.1	197.8	196.7	197.8	199.1	200.0	201.7	203.7	208.7	213.5
32.5°	187.3	186.5	185.3	184.8	185.3	186.5	187.3	189.6	193.8	196.9	200.3
35°	173.2	170.6	169.4	167.8	169.4	170.6	173.2	175.0	176.7	179.3	185.6
37.5°	158.2	156.9	155.3	155.9	155.3	156.9	158.2	159.0	162.5	166.2	168.8
40°	146.7	145.8	145.4	145.2	145.4	145.8	146.7	149.1	153.4	155.0	159.1
42.5°	137.5	134.9	134.0	134.0	134.0	134.9	137.5	140.2	142.8	145.5	149.8
45°	123.5	121.2	119.4	119.6	119.4	121.2	123.5	124.4	126.7	132.1	134.4
47.5°	109.3	109.2	108.1	108.4	108.1	109.2	109.3	110.8	113.7	117.0	120.8
50°	102.4	101.3	100.5	100.8	100.5	101.3	102.4	103.7	105.3	107.0	113.0
52.5°	95.9	94.9	94.3	95.1	94.3	94.9	95.9	96.6	97.8	99.5	103.5
55°	85.2	84.1	83.9	83.7	83.9	84.1	85.2	86.1	87.6	88.9	90.7
57.5°	73.2	72.5	71.3	70.9	71.3	72.5	73.2	74.6	76.4	78.1	80.0
60°	64.7	63.2	61.3	61.1	61.3	63.2	64.7	67.0	67.8	70.4	72.6
62.5°	56.7	56.5	56.1	56.1	56.1	56.5	56.7	57.6	58.6	62.4	65.1
65°	49.8	49.7	49.8	50.0	49.8	49.7	49.8	50.2	50.4	50.7	51.9
67.5°	43.4	43.0	42.7	42.9	42.7	43.0	43.4	43.5	44.0	44.2	45.0
70°	38.5	38.3	38.2	38.2	38.2	38.3	38.5	38.9	39.3	39.6	40.5
72.5°	33.8	33.8	33.6	33.4	33.6	33.8	33.8	34.5	34.7	35.1	35.6
75°	27.1	26.7	26.7	26.7	26.7	26.7	27.1	27.2	27.4	28.0	28.4
77.5°	20.6	20.4	20.2	20.1	20.2	20.4	20.6	20.6	21.0	21.0	21.4
80°	16.3	16.1	15.9	15.9	15.9	16.1	16.3	16.5	16.5	17.0	16.9
82.5°	12.5	12.2	12.2	12.1	12.2	12.2	12.5	12.5	12.5	12.9	12.9
85°	6.7	6.8	6.7	7.0	6.7	6.8	6.7	6.5	6.7	7.0	7.0
87.5°	4.9	4.7	5.0	4.9	5.0	4.7	4.9	4.8	4.9	4.7	4.6
90°	14.7	14.9	15.2	15.4	15.2	14.9	14.7	14.4	13.9	13.3	12.7
92.5°	14.9	15.1	15.2	15.4	15.2	15.1	14.9	14.8	14.6	14.3	13.9
95°	24.9	24.8	24.7	24.5	24.7	24.8	24.9	25.0	24.8	24.1	23.6
97.5°	32.3	32.4	32.6	32.8	32.6	32.4	32.3	32.1	31.8	31.3	30.8
100°	37.5	37.7	38.0	38.2	38.0	37.7	37.5	37.3	36.6	35.5	34.6
102.5°	39.9	40.3	40.6	41.0	40.6	40.3	39.9	39.5	38.7	37.4	36.1
105°	41.8	42.4	42.9	43.4	42.9	42.4	41.8	41.3	40.4	39.0	37.6
107.5°	43.1	43.6	44.1	44.6	44.1	43.6	43.1	42.6	43.0	44.5	45.9
110°	43.5	44.1	44.6	45.1	44.6	44.1	43.5	43.0	49.2	61.8	74.5



TEST NUMBER: P331769-930

CATALOG NUMBER: S122RDIW-S290D710U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	44.4	44.8	45.2	45.6	45.2	44.8	44.4	43.9	66.9	113.2	159.4
115°	74.2	65.1	55.9	46.8	55.9	65.1	74.2	83.3	117.2	175.9	234.7
117.5°	281.1	251.1	221.1	191.1	221.1	251.1	281.1	311.1	333.2	347.4	361.7
120°	399.5	382.4	365.3	348.1	365.3	382.4	399.5	416.6	424.4	422.9	421.4
122.5°	444.4	441.1	437.8	434.5	437.8	441.1	444.4	447.8	449.0	448.0	447.1
125°	486.8	487.2	487.6	488.0	487.6	487.2	486.8	486.5	485.8	484.9	484.0
127.5°	521.5	521.6	521.7	521.8	521.7	521.6	521.5	521.5	520.8	519.5	518.2
130°	543.2	543.1	542.9	542.8	542.9	543.1	543.2	543.3	542.7	541.3	539.9
132.5°	563.7	563.6	563.5	563.4	563.5	563.6	563.7	563.9	563.3	562.1	560.9
135°	593.8	593.5	593.3	593.0	593.3	593.5	593.8	594.0	593.5	592.2	591.0
137.5°	621.3	620.9	620.5	620.0	620.5	620.9	621.3	621.8	621.4	620.1	618.9
140°	638.9	638.2	637.6	637.0	637.6	638.2	638.9	639.5	639.3	638.1	637.0
142.5°	655.3	654.7	654.0	653.4	654.0	654.7	655.3	655.9	655.7	654.7	653.6
145°	678.2	677.6	676.9	676.4	676.9	677.6	678.2	678.9	678.7	677.8	676.9
147.5°	698.1	697.7	697.1	696.5	697.1	697.7	698.1	698.7	698.6	698.0	697.3
150°	710.8	710.1	709.5	708.9	709.5	710.1	710.8	711.4	711.3	710.6	709.8
152.5°	721.9	721.1	720.2	719.3	720.2	721.1	721.9	722.8	722.8	722.0	721.2
155°	737.0	736.1	735.0	734.0	735.0	736.1	737.0	738.0	738.2	737.4	736.6
157.5°	750.3	749.3	748.4	747.3	748.4	749.3	750.3	751.3	751.4	750.5	749.7
160°	757.7	756.8	756.0	755.1	756.0	756.8	757.7	758.6	758.7	758.0	757.2
162.5°	764.8	763.7	762.5	761.5	762.5	763.7	764.8	765.9	766.0	765.1	764.3
165°	773.7	772.9	772.0	771.1	772.0	772.9	773.7	774.6	774.6	773.7	772.9
167.5°	780.6	779.4	778.3	777.1	778.3	779.4	780.6	781.7	781.8	781.0	780.1
170°	784.2	783.1	782.0	780.8	782.0	783.1	784.2	785.4	785.5	784.6	783.7
172.5°	786.9	785.8	784.6	783.5	784.6	785.8	786.9	788.1	788.2	787.3	786.4
175°	789.7	788.5	787.2	785.9	787.2	788.5	789.7	791.0	791.2	790.3	789.5
177.5°	790.2	789.2	788.3	787.4	788.3	789.2	790.2	791.1	791.2	790.4	789.8
180°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8



TEST NUMBER: P331769-930

CATALOG NUMBER: S122RDIW-S290D710U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	512.6	514.6	517.7	519.5	522.4	524.4	525.5	527.3	528.4	532.1	536.0
5°	483.9	486.9	492.0	496.8	502.1	507.4	511.4	515.8	519.8	526.8	534.3
7.5°	451.1	455.2	463.3	470.9	480.0	487.5	494.2	501.8	508.6	518.7	529.2
10°	426.5	433.7	444.3	451.5	463.3	470.9	481.5	489.8	499.3	512.7	524.5
12.5°	405.3	414.0	422.5	432.5	443.2	455.8	467.4	478.2	489.3	503.1	517.1
15°	366.9	379.4	392.6	402.8	417.3	430.6	444.1	458.5	472.2	488.8	506.9
17.5°	317.4	332.0	354.1	371.5	388.5	401.9	418.7	436.1	452.2	472.1	492.4
20°	295.1	305.7	320.7	344.3	369.8	384.1	401.1	420.4	438.9	460.6	482.2
22.5°	277.1	286.7	298.6	317.0	345.5	365.0	382.8	402.4	423.8	445.9	469.9
25°	251.5	258.1	270.8	285.6	305.2	337.2	356.7	376.3	399.7	423.4	450.8
27.5°	232.3	238.3	246.5	260.6	275.2	298.2	329.1	350.6	373.8	400.5	428.9
30°	217.6	224.6	233.7	243.7	259.7	277.6	308.5	333.4	356.3	383.8	414.1
32.5°	206.9	212.5	220.2	230.4	243.6	260.9	285.6	315.7	338.1	367.0	398.7
35°	189.5	195.9	202.2	211.9	222.6	238.3	257.1	289.3	311.5	340.0	371.9
37.5°	175.0	179.0	186.0	193.6	205.0	216.7	232.9	261.8	285.8	313.8	346.4
40°	164.1	169.1	174.2	182.8	192.1	203.3	219.2	240.8	268.3	295.8	327.6
42.5°	153.4	159.7	165.3	171.0	181.1	192.4	205.4	223.6	251.8	277.7	308.7
45°	140.6	144.6	150.3	156.7	165.0	174.6	186.1	202.0	229.1	251.5	280.5
47.5°	125.6	131.6	135.3	141.5	149.4	158.6	169.3	183.0	204.9	225.9	252.9
50°	115.4	121.5	126.9	132.4	139.4	148.3	157.3	170.6	188.2	210.2	235.4
52.5°	106.6	112.0	117.2	122.8	129.7	137.8	146.3	158.0	173.0	193.3	217.8
55°	94.7	98.0	103.4	108.9	115.0	122.8	130.9	140.7	153.7	170.7	190.5
57.5°	82.3	86.2	90.4	96.0	102.2	108.2	115.5	124.4	134.6	150.0	167.0
60°	75.4	78.4	81.9	87.6	93.4	98.7	105.7	113.2	122.8	136.2	150.6
62.5°	67.7	70.5	73.7	78.7	84.3	89.2	95.4	103.2	111.4	123.5	136.2
65°	54.8	58.9	62.0	66.4	71.1	76.3	81.1	87.4	94.7	104.3	115.5
67.5°	45.4	47.5	50.5	54.5	59.2	63.7	68.2	73.1	79.4	86.8	95.8
70°	41.3	42.1	42.6	46.5	51.0	55.4	59.6	64.2	69.6	75.7	83.5
72.5°	36.4	37.2	37.8	39.5	43.0	47.5	51.9	55.4	60.4	65.6	71.8
75°	28.9	30.0	30.6	31.5	32.8	35.7	39.8	43.1	46.1	50.0	55.0
77.5°	22.0	22.7	23.2	24.2	25.0	26.3	28.7	31.6	34.5	36.7	40.1
80°	17.4	17.6	18.3	18.7	19.8	20.7	21.9	24.3	27.1	28.0	30.4
82.5°	13.1	13.3	13.9	14.3	14.8	15.6	17.0	17.6	19.8	21.0	22.5
85°	7.3	7.0	7.6	7.6	8.0	8.3	8.7	9.6	10.2	11.7	12.1
87.5°	4.6	4.5	4.5	4.2	4.1	4.2	4.1	3.9	3.9	4.1	4.4
90°	12.1	11.4	10.4	9.4	8.4	7.3	6.1	4.7	3.3	2.0	0.6
92.5°	13.5	13.2	12.7	12.2	11.7	11.3	11.0	11.2	11.3	11.4	11.5
95°	22.9	22.3	21.4	20.5	19.6	18.7	20.4	24.5	28.7	32.9	37.1
97.5°	30.3	29.8	27.7	25.7	23.6	21.6	26.4	38.2	50.1	61.8	73.6
100°	33.5	32.5	30.4	28.2	26.1	23.9	31.6	48.9	66.3	83.6	101.0
102.5°	34.7	33.4	51.4	69.5	87.6	105.6	116.4	120.1	123.8	127.5	131.2
105°	36.2	34.8	69.5	104.0	138.7	173.3	188.7	184.9	181.2	177.3	173.5
107.5°	47.3	48.8	90.3	131.8	173.3	214.8	234.1	231.0	228.0	224.9	221.8
110°	87.2	99.9	136.6	173.2	209.9	246.5	263.5	260.8	258.2	255.5	252.8



TEST NUMBER: P331769-930

CATALOG NUMBER: S122RDIW-S290D710U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	205.7	251.9	261.0	270.0	279.1	288.1	291.5	289.1	286.8	284.5	282.1
115°	293.4	352.1	348.9	345.8	342.7	339.5	336.8	334.7	332.5	330.4	328.2
117.5°	375.9	390.0	387.8	385.7	383.5	381.3	379.0	376.6	374.2	371.8	369.4
120°	419.9	418.3	416.0	413.8	411.5	409.2	407.2	405.2	403.3	401.5	399.5
122.5°	446.2	445.3	442.8	440.3	437.8	435.4	433.1	431.1	429.1	427.1	425.1
125°	483.1	482.2	479.9	477.4	475.1	472.6	470.6	469.0	467.3	465.7	464.0
127.5°	516.9	515.6	513.8	512.0	510.2	508.4	506.6	504.8	503.0	501.1	499.3
130°	538.5	537.1	535.7	534.3	532.9	531.5	529.8	527.7	525.7	523.7	521.6
132.5°	559.7	558.6	557.2	555.7	554.3	552.9	551.4	549.7	548.0	546.3	544.5
135°	589.7	588.5	587.3	586.2	585.1	583.9	582.3	580.2	578.2	576.2	574.2
137.5°	617.7	616.4	615.1	613.8	612.5	611.2	609.8	608.5	607.1	605.6	604.2
140°	635.9	634.7	633.2	631.9	630.5	629.1	627.9	626.9	625.8	624.8	623.9
142.5°	652.6	651.6	650.0	648.4	646.8	645.1	643.9	643.0	642.1	641.2	640.3
145°	676.1	675.2	673.0	670.9	668.7	666.6	665.5	665.7	665.9	665.9	666.1
147.5°	696.7	695.9	693.8	691.7	689.6	687.5	686.6	687.1	687.6	688.1	688.5
150°	709.1	708.3	706.3	704.3	702.2	700.2	699.6	700.5	701.4	702.3	703.2
152.5°	720.5	719.7	717.8	715.8	714.0	712.0	711.5	712.5	713.5	714.5	715.5
155°	735.9	735.2	733.6	732.1	730.6	729.0	728.9	730.0	731.2	732.3	733.4
157.5°	748.8	747.9	746.8	745.8	744.7	743.6	743.6	744.5	745.5	746.5	747.5
160°	756.4	755.7	754.9	754.2	753.4	752.6	752.6	753.4	754.2	754.9	755.7
162.5°	763.4	762.5	761.9	761.2	760.5	759.9	759.9	760.7	761.5	762.2	763.0
165°	772.0	771.1	770.7	770.3	770.0	769.6	769.7	770.5	771.3	772.0	772.8
167.5°	779.2	778.3	778.0	777.6	777.2	776.9	777.1	777.8	778.6	779.3	780.1
170°	782.9	782.0	781.7	781.5	781.1	780.9	781.1	782.0	782.7	783.4	784.2
172.5°	785.5	784.6	784.4	784.2	783.9	783.7	783.9	784.6	785.5	786.2	786.9
175°	788.6	787.7	787.4	787.2	786.8	786.6	786.9	787.8	788.7	789.6	790.5
177.5°	789.0	788.3	788.2	788.1	788.0	787.9	788.2	789.0	789.6	790.4	791.1
180°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8



TEST NUMBER: P331769-930

CATALOG NUMBER: S122RDIW-S290D710U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	536.1	536.5	539.5	540.9	543.5	544.5	545.8	545.4	545.4	546.0	550.2
5°	537.3	541.0	546.5	551.9	557.1	561.5	564.5	567.4	568.6	573.9	578.7
7.5°	535.3	542.2	551.3	559.5	569.3	577.0	583.3	589.1	593.0	600.9	608.9
10°	532.8	542.4	552.8	563.4	576.9	587.1	597.5	605.4	608.0	619.6	626.3
12.5°	527.7	540.6	553.8	567.5	580.7	594.8	606.2	614.2	623.3	633.7	646.0
15°	520.2	535.0	552.3	569.8	588.7	605.8	618.0	631.9	641.9	653.4	664.1
17.5°	509.4	528.5	550.3	570.7	592.6	610.8	627.7	641.0	648.0	654.6	656.2
20°	500.8	521.3	547.1	571.1	593.0	614.1	630.8	641.9	643.8	643.9	634.1
22.5°	491.5	514.7	541.6	566.2	592.4	615.9	628.8	633.6	626.2	613.7	594.7
25°	474.3	501.2	532.5	560.6	589.1	611.3	615.8	607.5	581.7	554.6	520.4
27.5°	455.7	485.9	519.4	550.7	581.1	594.9	585.3	555.2	508.9	468.6	419.7
30°	442.1	476.0	508.9	543.9	572.1	578.0	556.0	511.7	457.6	396.9	348.1
32.5°	426.5	462.0	498.2	534.4	558.0	552.2	515.8	461.3	397.9	338.2	292.2
35°	404.3	440.9	480.0	516.3	531.3	506.3	451.8	380.9	316.1	260.4	228.7
37.5°	378.6	418.6	459.2	492.5	491.5	449.8	375.6	302.4	247.9	214.9	192.4
40°	360.4	400.8	444.7	472.8	460.8	406.5	326.1	257.1	217.2	190.9	174.5
42.5°	342.9	383.4	427.1	449.4	428.4	361.7	281.7	227.6	194.7	174.2	160.9
45°	313.2	356.0	396.3	408.7	371.3	297.8	227.8	188.5	166.6	151.5	142.3
47.5°	284.1	326.2	363.1	363.2	312.7	241.5	192.2	163.1	144.5	132.7	126.0
50°	266.3	306.3	337.2	332.4	275.0	214.8	171.9	146.8	131.3	122.2	115.2
52.5°	246.3	285.1	311.9	298.2	243.1	189.1	153.6	132.6	119.8	111.9	105.6
55°	217.2	251.7	270.6	249.8	198.4	157.3	129.8	113.3	103.7	97.0	91.6
57.5°	188.7	217.1	228.9	204.8	163.4	130.4	109.8	97.4	87.9	83.1	80.3
60°	170.7	195.0	203.3	176.7	142.0	114.1	97.3	85.8	78.7	75.6	72.8
62.5°	153.1	172.9	176.3	152.0	123.8	99.9	85.4	75.7	71.0	68.0	65.4
65°	127.0	141.3	139.7	120.0	98.0	79.2	68.7	62.8	59.3	55.0	50.4
67.5°	104.6	113.3	108.0	93.4	74.8	61.6	54.7	50.2	45.8	41.8	40.8
70°	90.3	95.4	89.8	76.3	61.3	51.7	46.1	40.8	38.2	37.3	35.5
72.5°	76.7	78.5	72.5	60.9	49.9	42.8	37.3	34.4	32.9	32.2	31.1
75°	57.6	56.3	51.1	42.1	34.7	29.8	28.1	27.1	26.1	25.4	24.8
77.5°	40.4	38.6	33.9	28.0	24.1	21.9	20.8	20.2	19.8	19.4	18.8
80°	30.4	29.1	24.5	20.0	18.3	17.2	16.6	15.9	15.9	15.6	15.0
82.5°	22.3	20.8	16.7	14.7	13.8	13.0	12.6	12.2	12.1	12.1	11.7
85°	11.7	9.5	8.3	8.0	7.4	7.0	7.3	6.8	6.8	6.8	6.7
87.5°	3.9	3.5	3.6	3.8	4.2	4.3	4.4	4.6	5.0	4.9	5.2
90°	2.0	3.3	4.7	6.1	7.3	8.4	9.4	10.4	11.4	12.1	12.7
92.5°	11.4	11.3	11.2	11.0	11.3	11.7	12.2	12.7	13.2	13.5	13.9
95°	32.9	28.7	24.5	20.4	18.7	19.6	20.5	21.4	22.3	22.9	23.6
97.5°	61.8	50.1	38.2	26.4	21.6	23.6	25.7	27.7	29.8	30.3	30.8
100°	83.6	66.3	48.9	31.6	23.9	26.1	28.2	30.4	32.5	33.5	34.6
102.5°	127.5	123.8	120.1	116.4	105.6	87.6	69.5	51.4	33.4	34.7	36.1
105°	177.3	181.2	184.9	188.7	173.3	138.7	104.0	69.5	34.8	36.2	37.6
107.5°	224.9	228.0	231.0	234.1	214.8	173.3	131.8	90.3	48.8	47.3	45.9
110°	255.5	258.2	260.8	263.5	246.5	209.9	173.2	136.6	99.9	87.2	74.5





TEST NUMBER: P331769-930

CATALOG NUMBER: S122RDIW-S290D710U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	284.5	286.8	289.1	291.5	288.1	279.1	270.0	261.0	251.9	205.7	159.4
115°	330.4	332.5	334.7	336.8	339.5	342.7	345.8	348.9	352.1	293.4	234.7
117.5°	371.8	374.2	376.6	379.0	381.3	383.5	385.7	387.8	390.0	375.9	361.7
120°	401.5	403.3	405.2	407.2	409.2	411.5	413.8	416.0	418.3	419.9	421.4
122.5°	427.1	429.1	431.1	433.1	435.4	437.8	440.3	442.8	445.3	446.2	447.1
125°	465.7	467.3	469.0	470.6	472.6	475.1	477.4	479.9	482.2	483.1	484.0
127.5°	501.1	503.0	504.8	506.6	508.4	510.2	512.0	513.8	515.6	516.9	518.2
130°	523.7	525.7	527.7	529.8	531.5	532.9	534.3	535.7	537.1	538.5	539.9
132.5°	546.3	548.0	549.7	551.4	552.9	554.3	555.7	557.2	558.6	559.7	560.9
135°	576.2	578.2	580.2	582.3	583.9	585.1	586.2	587.3	588.5	589.7	591.0
137.5°	605.6	607.1	608.5	609.8	611.2	612.5	613.8	615.1	616.4	617.7	618.9
140°	624.8	625.8	626.9	627.9	629.1	630.5	631.9	633.2	634.7	635.9	637.0
142.5°	641.2	642.1	643.0	643.9	645.1	646.8	648.4	650.0	651.6	652.6	653.6
145°	665.9	665.9	665.7	665.5	666.6	668.7	670.9	673.0	675.2	676.1	676.9
147.5°	688.1	687.6	687.1	686.6	687.5	689.6	691.7	693.8	695.9	696.7	697.3
150°	702.3	701.4	700.5	699.6	700.2	702.2	704.3	706.3	708.3	709.1	709.8
152.5°	714.5	713.5	712.5	711.5	712.0	714.0	715.8	717.8	719.7	720.5	721.2
155°	732.3	731.2	730.0	728.9	729.0	730.6	732.1	733.6	735.2	735.9	736.6
157.5°	746.5	745.5	744.5	743.6	743.6	744.7	745.8	746.8	747.9	748.8	749.7
160°	754.9	754.2	753.4	752.6	752.6	753.4	754.2	754.9	755.7	756.4	757.2
162.5°	762.2	761.5	760.7	759.9	759.9	760.5	761.2	761.9	762.5	763.4	764.3
165°	772.0	771.3	770.5	769.7	769.6	770.0	770.3	770.7	771.1	772.0	772.9
167.5°	779.3	778.6	777.8	777.1	776.9	777.2	777.6	778.0	778.3	779.2	780.1
170°	783.4	782.7	782.0	781.1	780.9	781.1	781.5	781.7	782.0	782.9	783.7
172.5°	786.2	785.5	784.6	783.9	783.7	783.9	784.2	784.4	784.6	785.5	786.4
175°	789.6	788.7	787.8	786.9	786.6	786.8	787.2	787.4	787.7	788.6	789.5
177.5°	790.4	789.6	789.0	788.2	787.9	788.0	788.1	788.2	788.3	789.0	789.8
180°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	551.6	553.6	554.5	554.5	555.5	555.1	554.6
5°	583.3	586.9	587.7	590.9	593.4	592.6	593.0
7.5°	614.9	620.5	626.1	628.7	629.1	630.6	631.1
10°	634.3	639.0	647.6	646.4	652.8	656.6	650.4
12.5°	653.0	659.3	665.3	666.9	670.6	671.8	669.4
15°	669.8	673.2	673.5	672.6	673.8	672.8	669.3
17.5°	654.1	648.7	637.7	632.5	628.4	622.3	619.9
20°	628.0	612.0	593.5	586.1	577.5	560.4	564.5
22.5°	571.7	553.6	535.0	513.4	503.0	486.9	485.9
25°	484.1	452.8	418.3	394.3	380.2	364.1	357.0
27.5°	376.4	337.0	308.8	294.5	281.4	268.7	268.2
30°	305.6	276.0	254.1	241.9	233.9	228.5	229.7
32.5°	257.6	237.3	222.5	212.4	206.5	202.4	202.4
35°	210.6	196.7	187.2	183.0	178.7	175.8	175.9
37.5°	180.2	171.9	166.6	161.9	159.2	157.8	156.9
40°	164.6	157.8	153.7	150.9	148.7	146.7	146.3
42.5°	152.4	146.7	142.6	140.4	138.4	136.9	136.6
45°	135.2	130.5	126.9	124.4	123.5	122.2	122.2
47.5°	120.3	115.7	112.8	111.3	109.7	108.8	108.8
50°	110.2	106.6	104.1	103.1	101.8	101.3	101.1
52.5°	101.2	98.5	96.7	96.0	95.5	94.8	94.9
55°	88.9	87.4	86.7	86.1	85.2	84.1	84.8
57.5°	78.6	77.3	75.3	73.5	72.7	71.9	72.2
60°	71.3	68.7	66.1	64.1	63.5	61.9	61.9
62.5°	62.1	58.5	55.3	54.1	53.6	52.8	52.7
65°	47.8	46.3	45.6	44.8	44.4	44.4	44.1
67.5°	39.6	39.0	38.2	38.0	37.7	37.5	37.4
70°	35.0	34.2	33.9	33.7	33.3	33.5	32.9
72.5°	30.6	30.0	29.9	29.4	29.2	29.2	28.8
75°	24.1	24.1	23.9	23.7	23.3	23.2	23.3
77.5°	18.5	18.6	18.3	18.2	18.2	18.2	18.0
80°	14.8	15.0	14.8	14.6	14.4	14.6	14.4
82.5°	11.7	11.4	11.4	11.3	11.3	11.3	11.2
85°	6.7	6.8	6.7	6.5	6.5	6.5	6.7
87.5°	5.2	5.3	5.4	5.5	5.5	5.5	5.5
90°	13.3	13.9	14.4	14.7	14.9	15.2	15.4
92.5°	14.3	14.6	14.8	14.9	15.1	15.2	15.4
95°	24.1	24.8	25.0	24.9	24.8	24.7	24.5
97.5°	31.3	31.8	32.1	32.3	32.4	32.6	32.8
100°	35.5	36.6	37.3	37.5	37.7	38.0	38.2
102.5°	37.4	38.7	39.5	39.9	40.3	40.6	41.0
105°	39.0	40.4	41.3	41.8	42.4	42.9	43.4
107.5°	44.5	43.0	42.6	43.1	43.6	44.1	44.6
110°	61.8	49.2	43.0	43.5	44.1	44.6	45.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	113.2	66.9	43.9	44.4	44.8	45.2	45.6
115°	175.9	117.2	83.3	74.2	65.1	55.9	46.8
117.5°	347.4	333.2	311.1	281.1	251.1	221.1	191.1
120°	422.9	424.4	416.6	399.5	382.4	365.3	348.1
122.5°	448.0	449.0	447.8	444.4	441.1	437.8	434.5
125°	484.9	485.8	486.5	486.8	487.2	487.6	488.0
127.5°	519.5	520.8	521.5	521.5	521.6	521.7	521.8
130°	541.3	542.7	543.3	543.2	543.1	542.9	542.8
132.5°	562.1	563.3	563.9	563.7	563.6	563.5	563.4
135°	592.2	593.5	594.0	593.8	593.5	593.3	593.0
137.5°	620.1	621.4	621.8	621.3	620.9	620.5	620.0
140°	638.1	639.3	639.5	638.9	638.2	637.6	637.0
142.5°	654.7	655.7	655.9	655.3	654.7	654.0	653.4
145°	677.8	678.7	678.9	678.2	677.6	676.9	676.4
147.5°	698.0	698.6	698.7	698.1	697.7	697.1	696.5
150°	710.6	711.3	711.4	710.8	710.1	709.5	708.9
152.5°	722.0	722.8	722.8	721.9	721.1	720.2	719.3
155°	737.4	738.2	738.0	737.0	736.1	735.0	734.0
157.5°	750.5	751.4	751.3	750.3	749.3	748.4	747.3
160°	758.0	758.7	758.6	757.7	756.8	756.0	755.1
162.5°	765.1	766.0	765.9	764.8	763.7	762.5	761.5
165°	773.7	774.6	774.6	773.7	772.9	772.0	771.1
167.5°	781.0	781.8	781.7	780.6	779.4	778.3	777.1
170°	784.6	785.5	785.4	784.2	783.1	782.0	780.8
172.5°	787.3	788.2	788.1	786.9	785.8	784.6	783.5
175°	790.3	791.2	791.0	789.7	788.5	787.2	785.9
177.5°	790.4	791.2	791.1	790.2	789.2	788.3	787.4
180°	788.8	788.8	788.8	788.8	788.8	788.8	788.8

(END OF REPORT)