

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: P331769-935

Luminaire Tested: **S122RDIW-S290D710U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331769-935  
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-S290D710U935-4F0-1E-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: 3416.0 lumens  
Efficiency: N/A  
Efficacy: 112.4 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

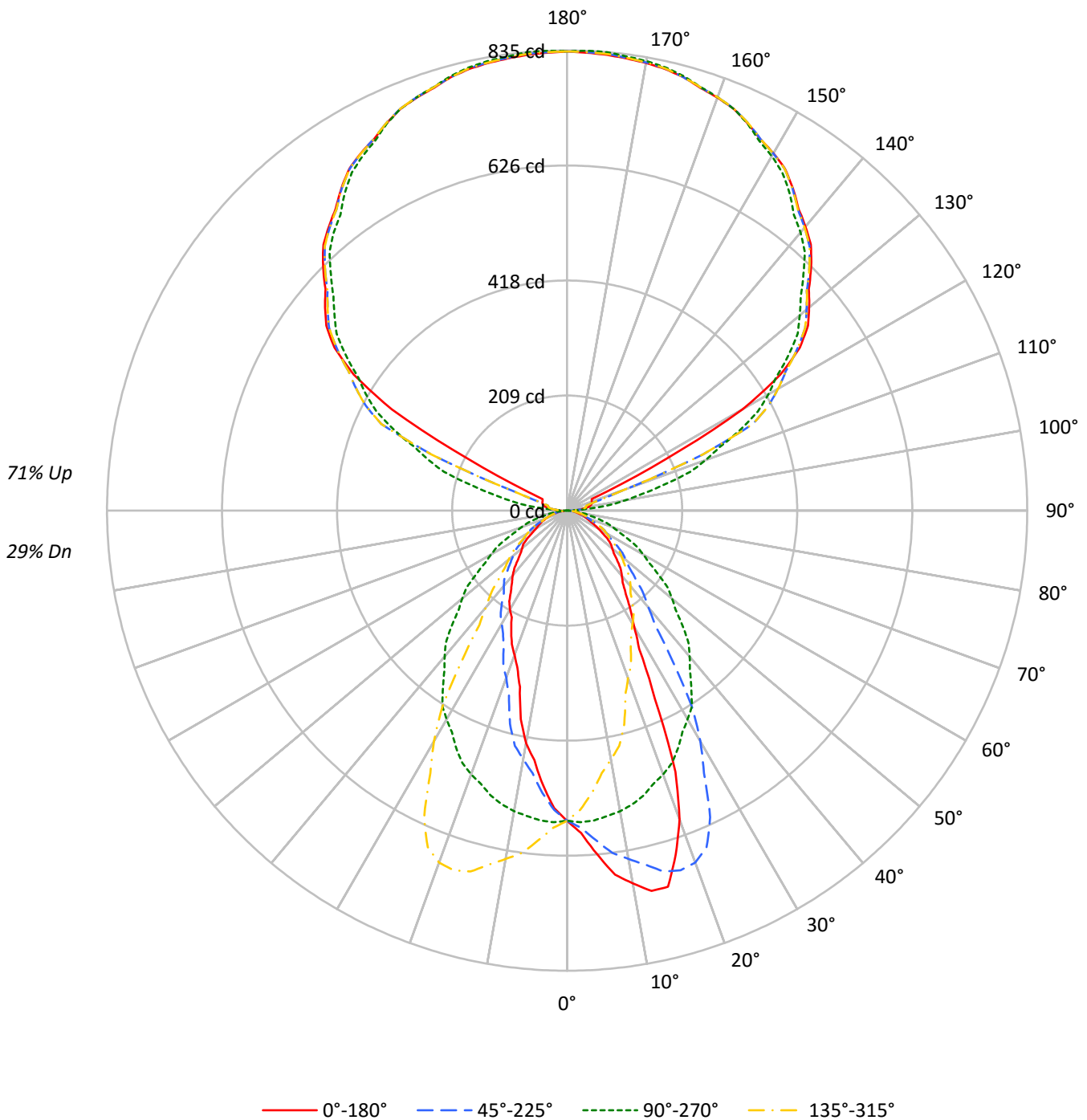
Input Watts (W): 30.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	9087	9087	9087	9087
5°	10149	9144	8109	9144
10°	11262	9081	7029	9081
15°	11814	8948	5538	8948
20°	10244	8751	4792	8751
25°	6716	8480	4277	8480
30°	4521	8153	3872	8153
35°	3662	7740	3493	7740
40°	3256	7290	3231	7290
45°	2948	6766	2884	6766
50°	2683	6244	2673	6244
55°	2519	5664	2488	5664
60°	2109	5134	2086	5134
65°	1780	4661	2017	4661
70°	1643	4164	1902	4164
75°	1535	3624	1759	3624
80°	1413	2985	1562	2985
85°	1315	2353	1371	2353



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.4	1.6
10°-20°	148.7	4.4
20°-30°	191.6	5.6
30°-40°	182.1	5.3
40°-50°	156.0	4.6
50°-60°	118.8	3.5
60°-70°	75.1	2.2
70°-80°	37.5	1.1
80°-90°	11.8	0.3
90°-100°	27.8	0.8
100°-110°	101.9	3.0
110°-120°	272.4	8.0
120°-130°	449.6	13.2
130°-140°	478.2	14.0
140°-150°	444.4	13.0
150°-160°	357.3	10.5
160°-170°	230.3	6.7
170°-180°	79.3	2.3
0°-30°	393.6	11.5
0°-40°	575.7	16.9
0°-60°	850.4	24.9
0°-90°	974.8	28.5
90°-120°	402.1	11.8
90°-150°	1774.3	51.9
90°-180°	2441.0	71.5
0°-180°	3416.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	563	563	563	563	563	
5°	626	564	500	564	626	62
15°	707	535	331	535	707	191
25°	377	476	240	476	377	179
35°	186	393	177	393	186	119
45°	129	296	126	296	129	100
55°	90	201	88	201	90	79
65°	47	122	53	122	47	47
75°	25	58	28	58	25	26
85°	7	13	7	13	7	8
90°	16	1	16	1	16	7
95°	26	39	26	39	26	24
105°	46	183	46	183	46	48
115°	49	347	49	347	49	124
125°	515	490	515	490	515	446
135°	626	606	626	606	626	483
145°	714	703	714	703	714	447
155°	775	775	775	775	775	358
165°	814	816	814	816	814	230
175°	830	835	830	835	830	79
180°	833	833	833	833	833	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	585.7	586.2	586.7	585.6	585.6	584.6	582.6	581.0	576.6	576.0	576.0
5°	626.2	625.9	626.6	624.1	620.6	619.7	616.0	611.1	606.1	600.5	599.3
7.5°	666.5	665.9	664.3	663.9	661.2	655.3	649.4	643.0	634.6	626.3	622.2
10°	686.9	693.4	689.4	682.6	683.9	674.8	669.9	661.4	654.4	642.0	639.4
12.5°	706.9	709.5	708.2	704.3	702.6	696.2	689.6	682.3	669.3	658.2	648.6
15°	706.8	710.5	711.5	710.3	711.3	710.9	707.4	701.4	690.0	677.9	667.3
17.5°	654.6	657.2	663.7	668.0	673.5	685.0	690.8	692.9	691.3	684.3	676.9
20°	596.2	591.9	609.8	619.0	626.8	646.4	663.2	669.7	680.0	679.8	677.9
22.5°	513.2	514.2	531.2	542.2	565.0	584.6	603.7	628.0	648.1	661.3	669.1
25°	377.0	384.5	401.5	416.4	441.8	478.2	511.3	549.6	585.7	614.3	641.5
27.5°	283.2	283.8	297.2	311.0	326.1	355.9	397.5	443.2	494.8	537.4	586.3
30°	242.5	241.3	247.0	255.5	268.4	291.4	322.7	367.6	419.1	483.3	540.4
32.5°	213.7	213.8	218.1	224.3	235.0	250.6	272.0	308.6	357.1	420.3	487.2
35°	185.8	185.6	188.7	193.2	197.7	207.7	222.4	241.5	275.0	333.8	402.3
37.5°	165.7	166.6	168.2	171.0	175.9	181.5	190.3	203.2	227.0	261.8	319.3
40°	154.5	154.9	157.0	159.4	162.3	166.6	173.8	184.3	201.6	229.4	271.5
42.5°	144.2	144.6	146.1	148.3	150.6	154.9	160.9	169.9	184.0	205.6	240.3
45°	129.1	129.1	130.4	131.4	134.0	137.8	142.8	150.2	160.0	176.0	199.1
47.5°	114.9	114.9	115.9	117.5	119.2	122.2	127.0	133.1	140.2	152.6	172.3
50°	106.8	107.0	107.5	108.9	109.9	112.6	116.4	121.7	129.1	138.7	155.1
52.5°	100.2	100.1	100.8	101.4	102.1	104.0	106.9	111.5	118.1	126.5	140.1
55°	89.5	88.8	90.0	90.9	91.5	92.3	93.8	96.8	102.5	109.5	119.7
57.5°	76.3	75.9	76.8	77.7	79.6	81.6	83.0	84.8	87.7	92.8	102.9
60°	65.3	65.3	67.1	67.7	69.8	72.6	75.3	76.9	79.8	83.1	90.6
62.5°	55.6	55.8	56.6	57.2	58.4	61.7	65.6	69.1	71.8	75.0	79.9
65°	46.6	46.9	46.9	47.4	48.1	48.9	50.5	53.2	58.1	62.6	66.3
67.5°	39.5	39.6	39.8	40.1	40.3	41.2	41.8	43.0	44.2	48.4	53.0
70°	34.8	35.4	35.2	35.6	35.8	36.2	36.9	37.5	39.3	40.3	43.0
72.5°	30.4	30.8	30.8	31.1	31.6	31.7	32.3	32.9	34.0	34.8	36.3
75°	24.6	24.5	24.6	25.1	25.2	25.4	25.4	26.2	26.8	27.6	28.6
77.5°	19.0	19.2	19.2	19.2	19.3	19.6	19.5	19.9	20.5	20.9	21.4
80°	15.2	15.4	15.2	15.4	15.7	15.8	15.7	15.8	16.4	16.8	16.8
82.5°	11.8	11.9	12.0	12.0	12.1	12.1	12.4	12.4	12.8	12.7	12.9
85°	7.1	6.9	6.9	6.9	7.1	7.2	7.1	7.1	7.2	7.2	7.2
87.5°	5.8	5.9	5.8	5.8	5.7	5.6	5.5	5.5	5.2	5.3	4.8
90°	16.3	16.0	15.8	15.5	15.2	14.7	14.0	13.4	12.7	12.1	11.0
92.5°	16.3	16.1	15.9	15.8	15.7	15.4	15.1	14.7	14.3	13.9	13.4
95°	25.9	26.1	26.2	26.3	26.4	26.2	25.5	24.9	24.2	23.5	22.6
97.5°	34.6	34.4	34.3	34.1	33.9	33.6	33.1	32.5	32.0	31.4	29.3
100°	40.4	40.1	39.9	39.6	39.3	38.7	37.5	36.5	35.4	34.4	32.1
102.5°	43.3	42.9	42.5	42.2	41.8	40.9	39.5	38.1	36.7	35.3	34.3
105°	45.8	45.3	44.8	44.2	43.7	42.6	41.2	39.7	38.2	36.8	35.4
107.5°	47.1	46.6	46.1	45.5	45.0	45.5	47.0	48.5	49.9	51.5	53.3
110°	47.6	47.1	46.6	46.0	45.5	51.9	65.3	78.7	92.1	105.5	144.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	48.1	47.7	47.3	46.8	46.4	70.6	119.5	168.3	217.2	266.0	275.6
115°	49.4	59.1	68.7	78.4	88.0	123.8	185.8	247.9	309.9	371.9	368.5
117.5°	201.8	233.5	265.2	296.9	328.6	351.9	366.9	381.9	396.9	411.9	409.6
120°	367.6	385.7	403.8	421.9	440.0	448.2	446.6	445.1	443.4	441.8	439.4
122.5°	458.8	462.4	465.8	469.3	472.9	474.2	473.1	472.2	471.2	470.3	467.6
125°	515.3	515.0	514.5	514.1	513.8	513.1	512.1	511.2	510.2	509.3	506.8
127.5°	551.0	551.0	550.9	550.8	550.7	550.0	548.6	547.3	545.9	544.5	542.6
130°	573.3	573.3	573.5	573.6	573.8	573.1	571.6	570.2	568.7	567.2	565.7
132.5°	595.0	595.0	595.2	595.3	595.5	594.9	593.7	592.4	591.1	589.9	588.4
135°	626.3	626.5	626.8	627.1	627.3	626.8	625.4	624.1	622.8	621.5	620.3
137.5°	654.8	655.3	655.7	656.2	656.7	656.3	654.9	653.6	652.3	651.0	649.6
140°	672.7	673.3	674.0	674.7	675.4	675.1	673.9	672.7	671.5	670.3	668.7
142.5°	690.0	690.7	691.4	692.1	692.7	692.5	691.4	690.3	689.2	688.1	686.4
145°	714.3	714.9	715.6	716.3	717.0	716.8	715.8	714.9	714.0	713.1	710.8
147.5°	735.6	736.2	736.8	737.3	737.9	737.8	737.1	736.4	735.7	734.9	732.7
150°	748.6	749.2	749.9	750.6	751.3	751.2	750.4	749.6	748.8	748.0	745.9
152.5°	759.7	760.6	761.5	762.3	763.3	763.3	762.5	761.6	760.9	760.1	758.0
155°	775.2	776.2	777.3	778.3	779.4	779.5	778.8	777.9	777.1	776.4	774.7
157.5°	789.2	790.3	791.3	792.4	793.4	793.5	792.6	791.7	790.7	789.8	788.7
160°	797.5	798.4	799.3	800.2	801.2	801.2	800.5	799.6	798.8	798.1	797.2
162.5°	804.2	805.3	806.5	807.6	808.8	808.9	808.0	807.1	806.2	805.3	804.6
165°	814.3	815.3	816.2	817.1	818.0	818.0	817.1	816.2	815.3	814.3	813.9
167.5°	820.7	821.9	823.1	824.3	825.5	825.6	824.8	823.8	822.9	821.9	821.6
170°	824.6	825.8	827.0	828.2	829.4	829.5	828.5	827.7	826.7	825.8	825.5
172.5°	827.4	828.6	829.8	831.0	832.2	832.4	831.5	830.5	829.6	828.6	828.4
175°	830.0	831.3	832.7	834.0	835.3	835.5	834.6	833.7	832.8	831.8	831.6
177.5°	831.6	832.5	833.4	834.5	835.4	835.5	834.7	834.1	833.3	832.5	832.4
180°	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	576.4	575.1	573.9	571.2	569.7	566.6	566.2	566.0	562.0	558.0	556.9
5°	596.2	593.0	588.3	582.8	577.1	571.3	567.4	564.2	556.4	549.0	544.7
7.5°	616.0	609.3	601.2	590.9	582.2	572.6	565.3	558.9	547.8	537.1	529.9
10°	630.9	620.0	609.2	595.0	583.8	572.8	562.7	553.9	541.4	527.3	517.3
12.5°	640.2	628.1	613.3	599.3	584.9	570.9	557.3	546.0	531.3	516.8	505.0
15°	652.6	639.7	621.7	601.8	583.2	565.0	549.4	535.3	516.2	498.7	484.2
17.5°	662.9	645.1	625.8	602.7	581.2	558.1	538.0	520.0	498.6	477.6	460.5
20°	666.2	648.5	626.2	603.1	577.7	550.5	528.8	509.3	486.4	463.5	443.9
22.5°	664.1	650.4	625.6	598.0	572.0	543.5	519.0	496.3	470.9	447.5	424.9
25°	650.3	645.6	622.2	592.0	562.3	529.3	500.8	476.0	447.1	422.1	397.4
27.5°	618.1	628.3	613.7	581.6	548.5	513.2	481.2	453.0	422.9	394.8	370.2
30°	587.1	610.4	604.2	574.4	537.4	502.7	466.8	437.3	405.3	376.3	352.1
32.5°	544.8	583.2	589.3	564.4	526.2	487.9	450.4	421.0	387.5	357.1	333.4
35°	477.2	534.7	561.1	545.3	507.0	465.6	427.0	392.7	359.0	329.0	305.5
37.5°	396.7	475.0	519.0	520.1	484.9	442.0	399.8	365.8	331.4	301.9	276.5
40°	344.4	429.3	486.6	499.3	469.6	423.3	380.6	345.9	312.4	283.4	254.3
42.5°	297.5	382.0	452.5	474.6	451.0	404.9	362.1	326.0	293.3	265.9	236.1
45°	240.6	314.5	392.1	431.6	418.5	375.9	330.7	296.3	265.6	241.9	213.4
47.5°	202.9	255.0	330.2	383.6	383.4	344.5	300.0	267.1	238.6	216.4	193.3
50°	181.5	226.9	290.4	351.0	356.1	323.5	281.2	248.6	222.0	198.7	180.1
52.5°	162.2	199.7	256.8	315.0	329.4	301.1	260.1	230.0	204.1	182.7	166.9
55°	137.1	166.1	209.5	263.8	285.8	265.8	229.4	201.2	180.3	162.3	148.6
57.5°	116.0	137.7	172.5	216.3	241.8	229.3	199.2	176.3	158.4	142.2	131.4
60°	102.7	120.5	150.0	186.6	214.7	206.0	180.3	159.0	143.8	129.7	119.5
62.5°	90.1	105.5	130.8	160.5	186.2	182.6	161.7	143.8	130.4	117.6	109.0
65°	72.6	83.7	103.5	126.7	147.5	149.2	134.1	122.0	110.1	100.0	92.3
67.5°	57.8	65.1	79.0	98.6	114.1	119.7	110.5	101.2	91.7	83.9	77.2
70°	48.7	54.6	64.7	80.6	94.9	100.7	95.4	88.2	80.0	73.5	67.8
72.5°	39.4	45.2	52.7	64.3	76.5	82.9	81.0	75.9	69.2	63.8	58.5
75°	29.7	31.5	36.6	44.4	54.0	59.5	60.8	58.1	52.8	48.7	45.5
77.5°	22.0	23.1	25.5	29.5	35.8	40.7	42.7	42.4	38.7	36.4	33.4
80°	17.6	18.2	19.4	21.1	25.8	30.7	32.1	32.1	29.5	28.6	25.7
82.5°	13.3	13.8	14.6	15.5	17.7	22.0	23.5	23.8	22.2	20.9	18.6
85°	7.7	7.4	7.8	8.4	8.8	10.0	12.3	12.7	12.3	10.8	10.2
87.5°	4.6	4.6	4.4	4.0	3.8	3.7	4.1	4.6	4.3	4.1	4.1
90°	9.9	8.9	7.7	6.5	5.0	3.5	2.1	0.6	2.1	3.5	5.0
92.5°	12.9	12.4	11.9	11.6	11.8	11.9	12.1	12.1	12.1	11.9	11.8
95°	21.6	20.7	19.7	21.5	25.9	30.3	34.8	39.2	34.8	30.3	25.9
97.5°	27.1	25.0	22.8	27.9	40.4	52.9	65.3	77.7	65.3	52.9	40.4
100°	29.8	27.6	25.2	33.3	51.7	70.0	88.3	106.7	88.3	70.0	51.7
102.5°	73.4	92.5	111.5	123.0	126.8	130.7	134.7	138.5	134.7	130.7	126.8
105°	109.9	146.5	183.0	199.3	195.3	191.3	187.3	183.2	187.3	191.3	195.3
107.5°	139.2	183.0	226.9	247.2	243.9	240.7	237.5	234.2	237.5	240.7	243.9
110°	182.9	221.6	260.3	278.3	275.4	272.7	269.8	267.0	269.8	272.7	275.4





TEST NUMBER: P331769-935

CATALOG NUMBER: S122RDIW-S290D710U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	285.2	294.7	304.3	307.8	305.3	302.9	300.4	297.9	300.4	302.9	305.3
115°	365.2	361.9	358.5	355.7	353.4	351.1	348.9	346.6	348.9	351.1	353.4
117.5°	407.3	405.0	402.7	400.3	397.7	395.2	392.6	390.1	392.6	395.2	397.7
120°	437.0	434.5	432.1	430.0	427.9	425.9	424.0	421.9	424.0	425.9	427.9
122.5°	465.0	462.4	459.8	457.4	455.3	453.1	451.1	448.9	451.1	453.1	455.3
125°	504.2	501.7	499.1	497.0	495.2	493.5	491.8	490.0	491.8	493.5	495.2
127.5°	540.7	538.8	536.9	535.0	533.0	531.2	529.2	527.3	529.2	531.2	533.0
130°	564.2	562.7	561.3	559.5	557.3	555.2	553.0	550.9	553.0	555.2	557.3
132.5°	586.9	585.4	583.9	582.3	580.5	578.7	576.9	575.1	576.9	578.7	580.5
135°	619.1	617.9	616.6	614.9	612.8	610.6	608.5	606.4	608.5	610.6	612.8
137.5°	648.2	646.9	645.5	644.0	642.6	641.1	639.6	638.1	639.6	641.1	642.6
140°	667.3	665.8	664.3	663.1	662.0	660.9	659.9	658.8	659.9	660.9	662.0
142.5°	684.8	683.0	681.3	680.0	679.1	678.1	677.1	676.1	677.1	678.1	679.1
145°	708.5	706.2	704.0	702.8	703.0	703.2	703.3	703.4	703.3	703.2	703.0
147.5°	730.5	728.2	726.0	725.1	725.7	726.2	726.7	727.1	726.7	726.2	725.7
150°	743.7	741.6	739.4	738.8	739.8	740.7	741.7	742.6	741.7	740.7	739.8
152.5°	756.0	754.0	751.9	751.4	752.4	753.5	754.6	755.6	754.6	753.5	752.4
155°	773.1	771.5	769.9	769.7	770.9	772.1	773.4	774.6	773.4	772.1	770.9
157.5°	787.6	786.4	785.3	785.3	786.3	787.3	788.3	789.4	788.3	787.3	786.3
160°	796.4	795.7	794.8	794.8	795.7	796.4	797.2	798.1	797.2	796.4	795.7
162.5°	803.9	803.1	802.5	802.5	803.3	804.2	804.9	805.7	804.9	804.2	803.3
165°	813.5	813.1	812.7	812.9	813.7	814.5	815.3	816.1	815.3	814.5	813.7
167.5°	821.1	820.8	820.4	820.6	821.4	822.3	823.0	823.8	823.0	822.3	821.4
170°	825.3	824.9	824.7	824.9	825.8	826.6	827.3	828.2	827.3	826.6	825.8
172.5°	828.1	827.9	827.6	827.9	828.6	829.5	830.3	831.0	830.3	829.5	828.6
175°	831.3	831.0	830.7	831.0	832.0	832.9	833.9	834.8	833.9	832.9	832.0
177.5°	832.3	832.2	832.1	832.4	833.2	833.9	834.7	835.4	834.7	833.9	833.2
180°	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0



TEST NUMBER: P331769-935

CATALOG NUMBER: S122RDIW-S290D710U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	554.9	553.8	551.7	548.6	546.7	543.5	541.3	542.5	542.9	542.5	542.3
5°	540.0	535.9	530.2	524.7	519.6	514.2	511.0	509.7	507.0	505.4	504.5
7.5°	521.9	514.9	506.9	497.3	489.2	480.7	476.4	474.2	468.6	465.6	463.0
10°	508.5	497.3	489.3	476.8	469.2	458.1	450.4	450.6	443.0	438.7	435.6
12.5°	493.6	481.4	468.0	456.8	446.2	437.2	428.0	424.3	416.2	412.1	403.6
15°	469.0	454.7	440.7	425.4	414.7	400.7	387.4	371.2	358.1	346.7	343.6
17.5°	442.1	424.4	410.3	392.4	373.9	350.6	335.2	325.7	317.9	311.9	307.4
20°	423.6	405.6	390.5	363.6	338.7	322.9	311.6	304.3	296.1	289.6	286.1
22.5°	404.2	385.5	364.9	334.8	315.4	302.7	292.7	284.3	278.7	273.7	270.4
25°	376.7	356.1	322.3	301.6	285.9	272.6	265.6	260.5	254.7	247.8	244.7
27.5°	347.6	315.0	290.6	275.2	260.3	251.7	245.3	237.7	232.5	229.4	226.1
30°	325.8	293.2	274.2	257.4	246.8	237.2	229.8	225.5	220.4	215.2	213.0
32.5°	301.6	275.5	257.3	243.3	232.6	224.4	218.5	211.5	207.9	204.7	200.2
35°	271.5	251.7	235.1	223.8	213.5	206.9	200.1	196.0	189.3	186.6	184.9
37.5°	246.0	228.9	216.5	204.5	196.4	189.1	184.9	178.3	175.5	171.6	167.9
40°	231.5	214.7	202.9	193.0	184.0	178.6	173.3	168.0	163.7	162.0	157.5
42.5°	216.9	203.2	191.2	180.6	174.5	168.7	162.0	158.2	153.7	150.8	148.1
45°	196.6	184.4	174.3	165.5	158.8	152.7	148.4	142.0	139.5	133.8	131.4
47.5°	178.7	167.5	157.7	149.4	142.9	139.0	132.7	127.6	123.6	120.0	117.0
50°	166.1	156.6	147.2	139.8	134.0	128.3	121.8	119.3	113.0	111.2	109.5
52.5°	154.5	145.5	137.0	129.7	123.8	118.3	112.6	109.3	105.0	103.3	102.0
55°	138.3	129.7	121.5	115.0	109.2	103.5	100.0	95.8	93.8	92.5	90.9
57.5°	122.0	114.3	108.0	101.4	95.5	91.0	87.0	84.5	82.5	80.7	78.8
60°	111.7	104.3	98.6	92.5	86.4	82.7	79.6	76.6	74.3	71.5	70.8
62.5°	100.7	94.2	89.0	83.1	77.8	74.5	71.5	68.7	65.9	61.9	60.8
65°	85.7	80.6	75.1	70.2	65.5	62.2	57.9	54.8	53.6	53.2	53.0
67.5°	72.1	67.2	62.5	57.5	53.3	50.2	48.0	47.5	46.7	46.5	45.9
70°	62.9	58.5	53.8	49.1	44.9	44.4	43.7	42.8	41.8	41.5	41.1
72.5°	54.8	50.2	45.5	41.8	40.0	39.3	38.5	37.6	37.0	36.6	36.4
75°	42.0	37.7	34.6	33.2	32.3	31.7	30.5	30.0	29.5	28.9	28.8
77.5°	30.3	27.8	26.4	25.6	24.5	23.9	23.2	22.6	22.2	22.1	21.8
80°	23.1	21.9	20.9	19.7	19.4	18.6	18.4	17.8	18.0	17.4	17.4
82.5°	17.9	16.4	15.6	15.1	14.6	14.0	13.9	13.6	13.6	13.2	13.2
85°	9.2	8.8	8.4	8.0	8.0	7.4	7.7	7.4	7.4	7.1	6.9
87.5°	4.3	4.4	4.3	4.5	4.7	4.7	4.9	4.9	5.0	5.2	5.1
90°	6.5	7.7	8.9	9.9	11.0	12.1	12.7	13.4	14.0	14.7	15.2
92.5°	11.6	11.9	12.4	12.9	13.4	13.9	14.3	14.7	15.1	15.4	15.7
95°	21.5	19.7	20.7	21.6	22.6	23.5	24.2	24.9	25.5	26.2	26.4
97.5°	27.9	22.8	25.0	27.1	29.3	31.4	32.0	32.5	33.1	33.6	33.9
100°	33.3	25.2	27.6	29.8	32.1	34.4	35.4	36.5	37.5	38.7	39.3
102.5°	123.0	111.5	92.5	73.4	54.3	35.3	36.7	38.1	39.5	40.9	41.8
105°	199.3	183.0	146.5	109.9	73.4	36.8	38.2	39.7	41.2	42.6	43.7
107.5°	247.2	226.9	183.0	139.2	95.3	51.5	49.9	48.5	47.0	45.5	45.0
110°	278.3	260.3	221.6	182.9	144.2	105.5	92.1	78.7	65.3	51.9	45.5



TEST NUMBER: P331769-935

CATALOG NUMBER: S122RDIW-S290D710U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	307.8	304.3	294.7	285.2	275.6	266.0	217.2	168.3	119.5	70.6	46.4
115°	355.7	358.5	361.9	365.2	368.5	371.9	309.9	247.9	185.8	123.8	88.0
117.5°	400.3	402.7	405.0	407.3	409.6	411.9	396.9	381.9	366.9	351.9	328.6
120°	430.0	432.1	434.5	437.0	439.4	441.8	443.4	445.1	446.6	448.2	440.0
122.5°	457.4	459.8	462.4	465.0	467.6	470.3	471.2	472.2	473.1	474.2	472.9
125°	497.0	499.1	501.7	504.2	506.8	509.3	510.2	511.2	512.1	513.1	513.8
127.5°	535.0	536.9	538.8	540.7	542.6	544.5	545.9	547.3	548.6	550.0	550.7
130°	559.5	561.3	562.7	564.2	565.7	567.2	568.7	570.2	571.6	573.1	573.8
132.5°	582.3	583.9	585.4	586.9	588.4	589.9	591.1	592.4	593.7	594.9	595.5
135°	614.9	616.6	617.9	619.1	620.3	621.5	622.8	624.1	625.4	626.8	627.3
137.5°	644.0	645.5	646.9	648.2	649.6	651.0	652.3	653.6	654.9	656.3	656.7
140°	663.1	664.3	665.8	667.3	668.7	670.3	671.5	672.7	673.9	675.1	675.4
142.5°	680.0	681.3	683.0	684.8	686.4	688.1	689.2	690.3	691.4	692.5	692.7
145°	702.8	704.0	706.2	708.5	710.8	713.1	714.0	714.9	715.8	716.8	717.0
147.5°	725.1	726.0	728.2	730.5	732.7	734.9	735.7	736.4	737.1	737.8	737.9
150°	738.8	739.4	741.6	743.7	745.9	748.0	748.8	749.6	750.4	751.2	751.3
152.5°	751.4	751.9	754.0	756.0	758.0	760.1	760.9	761.6	762.5	763.3	763.3
155°	769.7	769.9	771.5	773.1	774.7	776.4	777.1	777.9	778.8	779.5	779.4
157.5°	785.3	785.3	786.4	787.6	788.7	789.8	790.7	791.7	792.6	793.5	793.4
160°	794.8	794.8	795.7	796.4	797.2	798.1	798.8	799.6	800.5	801.2	801.2
162.5°	802.5	802.5	803.1	803.9	804.6	805.3	806.2	807.1	808.0	808.9	808.8
165°	812.9	812.7	813.1	813.5	813.9	814.3	815.3	816.2	817.1	818.0	818.0
167.5°	820.6	820.4	820.8	821.1	821.6	821.9	822.9	823.8	824.8	825.6	825.5
170°	824.9	824.7	824.9	825.3	825.5	825.8	826.7	827.7	828.5	829.5	829.4
172.5°	827.9	827.6	827.9	828.1	828.4	828.6	829.6	830.5	831.5	832.4	832.2
175°	831.0	830.7	831.0	831.3	831.6	831.8	832.8	833.7	834.6	835.5	835.3
177.5°	832.4	832.1	832.2	832.3	832.4	832.5	833.3	834.1	834.7	835.5	835.4
180°	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0



TEST NUMBER: P331769-935

CATALOG NUMBER: S122RDIW-S290D710U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	540.5	540.8	540.4	540.6	540.4	540.8	540.5	542.3	542.5	542.9	542.5
5°	503.6	501.3	500.8	500.3	500.8	501.3	503.6	504.5	505.4	507.0	509.7
7.5°	459.6	459.3	458.2	456.8	458.2	459.3	459.6	463.0	465.6	468.6	474.2
10°	431.3	430.2	430.1	428.7	430.1	430.2	431.3	435.6	438.7	443.0	450.6
12.5°	398.0	391.8	391.2	387.7	391.2	391.8	398.0	403.6	412.1	416.2	424.3
15°	339.0	337.8	333.8	331.3	333.8	337.8	339.0	343.6	346.7	358.1	371.2
17.5°	305.1	301.3	300.1	299.5	300.1	301.3	305.1	307.4	311.9	317.9	325.7
20°	283.4	279.9	279.3	278.9	279.3	279.9	283.4	286.1	289.6	296.1	304.3
22.5°	268.4	264.7	263.2	262.0	263.2	264.7	268.4	270.4	273.7	278.7	284.3
25°	242.7	241.3	240.6	240.1	240.6	241.3	242.7	244.7	247.8	254.7	260.5
27.5°	222.7	219.6	219.0	218.0	219.0	219.6	222.7	226.1	229.4	232.5	237.7
30°	211.2	210.3	208.9	207.7	208.9	210.3	211.2	213.0	215.2	220.4	225.5
32.5°	197.8	196.9	195.7	195.2	195.7	196.9	197.8	200.2	204.7	207.9	211.5
35°	182.9	180.1	178.9	177.2	178.9	180.1	182.9	184.9	186.6	189.3	196.0
37.5°	167.1	165.7	164.0	164.6	164.0	165.7	167.1	167.9	171.6	175.5	178.3
40°	154.9	153.9	153.5	153.3	153.5	153.9	154.9	157.5	162.0	163.7	168.0
42.5°	145.2	142.5	141.5	141.5	141.5	142.5	145.2	148.1	150.8	153.7	158.2
45°	130.4	127.9	126.1	126.3	126.1	127.9	130.4	131.4	133.8	139.5	142.0
47.5°	115.4	115.3	114.2	114.5	114.2	115.3	115.4	117.0	120.0	123.6	127.6
50°	108.1	107.0	106.2	106.4	106.2	107.0	108.1	109.5	111.2	113.0	119.3
52.5°	101.3	100.2	99.6	100.5	99.6	100.2	101.3	102.0	103.3	105.0	109.3
55°	90.0	88.8	88.6	88.4	88.6	88.8	90.0	90.9	92.5	93.8	95.8
57.5°	77.3	76.5	75.3	74.9	75.3	76.5	77.3	78.8	80.7	82.5	84.5
60°	68.3	66.7	64.7	64.6	64.7	66.7	68.3	70.8	71.5	74.3	76.6
62.5°	59.9	59.7	59.2	59.2	59.2	59.7	59.9	60.8	61.9	65.9	68.7
65°	52.6	52.4	52.6	52.8	52.6	52.4	52.6	53.0	53.2	53.6	54.8
67.5°	45.8	45.5	45.1	45.3	45.1	45.5	45.8	45.9	46.5	46.7	47.5
70°	40.6	40.5	40.3	40.3	40.3	40.5	40.6	41.1	41.5	41.8	42.8
72.5°	35.6	35.6	35.5	35.3	35.5	35.6	35.6	36.4	36.6	37.0	37.6
75°	28.6	28.2	28.2	28.2	28.2	28.2	28.6	28.8	28.9	29.5	30.0
77.5°	21.8	21.5	21.4	21.2	21.4	21.5	21.8	21.8	22.1	22.2	22.6
80°	17.2	17.0	16.8	16.8	16.8	17.0	17.2	17.4	17.4	18.0	17.8
82.5°	13.2	12.9	12.9	12.7	12.9	12.9	13.2	13.2	13.2	13.6	13.6
85°	7.1	7.2	7.1	7.4	7.1	7.2	7.1	6.9	7.1	7.4	7.4
87.5°	5.2	5.0	5.3	5.2	5.3	5.0	5.2	5.1	5.2	5.0	4.9
90°	15.5	15.8	16.0	16.3	16.0	15.8	15.5	15.2	14.7	14.0	13.4
92.5°	15.8	15.9	16.1	16.3	16.1	15.9	15.8	15.7	15.4	15.1	14.7
95°	26.3	26.2	26.1	25.9	26.1	26.2	26.3	26.4	26.2	25.5	24.9
97.5°	34.1	34.3	34.4	34.6	34.4	34.3	34.1	33.9	33.6	33.1	32.5
100°	39.6	39.9	40.1	40.4	40.1	39.9	39.6	39.3	38.7	37.5	36.5
102.5°	42.2	42.5	42.9	43.3	42.9	42.5	42.2	41.8	40.9	39.5	38.1
105°	44.2	44.8	45.3	45.8	45.3	44.8	44.2	43.7	42.6	41.2	39.7
107.5°	45.5	46.1	46.6	47.1	46.6	46.1	45.5	45.0	45.5	47.0	48.5
110°	46.0	46.6	47.1	47.6	47.1	46.6	46.0	45.5	51.9	65.3	78.7



TEST NUMBER: P331769-935

CATALOG NUMBER: S122RDIW-S290D710U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	46.8	47.3	47.7	48.1	47.7	47.3	46.8	46.4	70.6	119.5	168.3
115°	78.4	68.7	59.1	49.4	59.1	68.7	78.4	88.0	123.8	185.8	247.9
117.5°	296.9	265.2	233.5	201.8	233.5	265.2	296.9	328.6	351.9	366.9	381.9
120°	421.9	403.8	385.7	367.6	385.7	403.8	421.9	440.0	448.2	446.6	445.1
122.5°	469.3	465.8	462.4	458.8	462.4	465.8	469.3	472.9	474.2	473.1	472.2
125°	514.1	514.5	515.0	515.3	515.0	514.5	514.1	513.8	513.1	512.1	511.2
127.5°	550.8	550.9	551.0	551.0	551.0	550.9	550.8	550.7	550.0	548.6	547.3
130°	573.6	573.5	573.3	573.3	573.3	573.5	573.6	573.8	573.1	571.6	570.2
132.5°	595.3	595.2	595.0	595.0	595.0	595.2	595.3	595.5	594.9	593.7	592.4
135°	627.1	626.8	626.5	626.3	626.5	626.8	627.1	627.3	626.8	625.4	624.1
137.5°	656.2	655.7	655.3	654.8	655.3	655.7	656.2	656.7	656.3	654.9	653.6
140°	674.7	674.0	673.3	672.7	673.3	674.0	674.7	675.4	675.1	673.9	672.7
142.5°	692.1	691.4	690.7	690.0	690.7	691.4	692.1	692.7	692.5	691.4	690.3
145°	716.3	715.6	714.9	714.3	714.9	715.6	716.3	717.0	716.8	715.8	714.9
147.5°	737.3	736.8	736.2	735.6	736.2	736.8	737.3	737.9	737.8	737.1	736.4
150°	750.6	749.9	749.2	748.6	749.2	749.9	750.6	751.3	751.2	750.4	749.6
152.5°	762.3	761.5	760.6	759.7	760.6	761.5	762.3	763.3	763.3	762.5	761.6
155°	778.3	777.3	776.2	775.2	776.2	777.3	778.3	779.4	779.5	778.8	777.9
157.5°	792.4	791.3	790.3	789.2	790.3	791.3	792.4	793.4	793.5	792.6	791.7
160°	800.2	799.3	798.4	797.5	798.4	799.3	800.2	801.2	801.2	800.5	799.6
162.5°	807.6	806.5	805.3	804.2	805.3	806.5	807.6	808.8	808.9	808.0	807.1
165°	817.1	816.2	815.3	814.3	815.3	816.2	817.1	818.0	818.0	817.1	816.2
167.5°	824.3	823.1	821.9	820.7	821.9	823.1	824.3	825.5	825.6	824.8	823.8
170°	828.2	827.0	825.8	824.6	825.8	827.0	828.2	829.4	829.5	828.5	827.7
172.5°	831.0	829.8	828.6	827.4	828.6	829.8	831.0	832.2	832.4	831.5	830.5
175°	834.0	832.7	831.3	830.0	831.3	832.7	834.0	835.3	835.5	834.6	833.7
177.5°	834.5	833.4	832.5	831.6	832.5	833.4	834.5	835.4	835.5	834.7	834.1
180°	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0



TEST NUMBER: P331769-935

CATALOG NUMBER: S122RDIW-S290D710U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	541.3	543.5	546.7	548.6	551.7	553.8	554.9	556.9	558.0	562.0	566.0
5°	511.0	514.2	519.6	524.7	530.2	535.9	540.0	544.7	549.0	556.4	564.2
7.5°	476.4	480.7	489.2	497.3	506.9	514.9	521.9	529.9	537.1	547.8	558.9
10°	450.4	458.1	469.2	476.8	489.3	497.3	508.5	517.3	527.3	541.4	553.9
12.5°	428.0	437.2	446.2	456.8	468.0	481.4	493.6	505.0	516.8	531.3	546.0
15°	387.4	400.7	414.7	425.4	440.7	454.7	469.0	484.2	498.7	516.2	535.3
17.5°	335.2	350.6	373.9	392.4	410.3	424.4	442.1	460.5	477.6	498.6	520.0
20°	311.6	322.9	338.7	363.6	390.5	405.6	423.6	443.9	463.5	486.4	509.3
22.5°	292.7	302.7	315.4	334.8	364.9	385.5	404.2	424.9	447.5	470.9	496.3
25°	265.6	272.6	285.9	301.6	322.3	356.1	376.7	397.4	422.1	447.1	476.0
27.5°	245.3	251.7	260.3	275.2	290.6	315.0	347.6	370.2	394.8	422.9	453.0
30°	229.8	237.2	246.8	257.4	274.2	293.2	325.8	352.1	376.3	405.3	437.3
32.5°	218.5	224.4	232.6	243.3	257.3	275.5	301.6	333.4	357.1	387.5	421.0
35°	200.1	206.9	213.5	223.8	235.1	251.7	271.5	305.5	329.0	359.0	392.7
37.5°	184.9	189.1	196.4	204.5	216.5	228.9	246.0	276.5	301.9	331.4	365.8
40°	173.3	178.6	184.0	193.0	202.9	214.7	231.5	254.3	283.4	312.4	345.9
42.5°	162.0	168.7	174.5	180.6	191.2	203.2	216.9	236.1	265.9	293.3	326.0
45°	148.4	152.7	158.8	165.5	174.3	184.4	196.6	213.4	241.9	265.6	296.3
47.5°	132.7	139.0	142.9	149.4	157.7	167.5	178.7	193.3	216.4	238.6	267.1
50°	121.8	128.3	134.0	139.8	147.2	156.6	166.1	180.1	198.7	222.0	248.6
52.5°	112.6	118.3	123.8	129.7	137.0	145.5	154.5	166.9	182.7	204.1	230.0
55°	100.0	103.5	109.2	115.0	121.5	129.7	138.3	148.6	162.3	180.3	201.2
57.5°	87.0	91.0	95.5	101.4	108.0	114.3	122.0	131.4	142.2	158.4	176.3
60°	79.6	82.7	86.4	92.5	98.6	104.3	111.7	119.5	129.7	143.8	159.0
62.5°	71.5	74.5	77.8	83.1	89.0	94.2	100.7	109.0	117.6	130.4	143.8
65°	57.9	62.2	65.5	70.2	75.1	80.6	85.7	92.3	100.0	110.1	122.0
67.5°	48.0	50.2	53.3	57.5	62.5	67.2	72.1	77.2	83.9	91.7	101.2
70°	43.7	44.4	44.9	49.1	53.8	58.5	62.9	67.8	73.5	80.0	88.2
72.5°	38.5	39.3	40.0	41.8	45.5	50.2	54.8	58.5	63.8	69.2	75.9
75°	30.5	31.7	32.3	33.2	34.6	37.7	42.0	45.5	48.7	52.8	58.1
77.5°	23.2	23.9	24.5	25.6	26.4	27.8	30.3	33.4	36.4	38.7	42.4
80°	18.4	18.6	19.4	19.7	20.9	21.9	23.1	25.7	28.6	29.5	32.1
82.5°	13.9	14.0	14.6	15.1	15.6	16.4	17.9	18.6	20.9	22.2	23.8
85°	7.7	7.4	8.0	8.0	8.4	8.8	9.2	10.2	10.8	12.3	12.7
87.5°	4.9	4.7	4.7	4.5	4.3	4.4	4.3	4.1	4.1	4.3	4.6
90°	12.7	12.1	11.0	9.9	8.9	7.7	6.5	5.0	3.5	2.1	0.6
92.5°	14.3	13.9	13.4	12.9	12.4	11.9	11.6	11.8	11.9	12.1	12.1
95°	24.2	23.5	22.6	21.6	20.7	19.7	21.5	25.9	30.3	34.8	39.2
97.5°	32.0	31.4	29.3	27.1	25.0	22.8	27.9	40.4	52.9	65.3	77.7
100°	35.4	34.4	32.1	29.8	27.6	25.2	33.3	51.7	70.0	88.3	106.7
102.5°	36.7	35.3	54.3	73.4	92.5	111.5	123.0	126.8	130.7	134.7	138.5
105°	38.2	36.8	73.4	109.9	146.5	183.0	199.3	195.3	191.3	187.3	183.2
107.5°	49.9	51.5	95.3	139.2	183.0	226.9	247.2	243.9	240.7	237.5	234.2
110°	92.1	105.5	144.2	182.9	221.6	260.3	278.3	275.4	272.7	269.8	267.0



TEST NUMBER: P331769-935

CATALOG NUMBER: S122RDIW-S290D710U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	217.2	266.0	275.6	285.2	294.7	304.3	307.8	305.3	302.9	300.4	297.9
115°	309.9	371.9	368.5	365.2	361.9	358.5	355.7	353.4	351.1	348.9	346.6
117.5°	396.9	411.9	409.6	407.3	405.0	402.7	400.3	397.7	395.2	392.6	390.1
120°	443.4	441.8	439.4	437.0	434.5	432.1	430.0	427.9	425.9	424.0	421.9
122.5°	471.2	470.3	467.6	465.0	462.4	459.8	457.4	455.3	453.1	451.1	448.9
125°	510.2	509.3	506.8	504.2	501.7	499.1	497.0	495.2	493.5	491.8	490.0
127.5°	545.9	544.5	542.6	540.7	538.8	536.9	535.0	533.0	531.2	529.2	527.3
130°	568.7	567.2	565.7	564.2	562.7	561.3	559.5	557.3	555.2	553.0	550.9
132.5°	591.1	589.9	588.4	586.9	585.4	583.9	582.3	580.5	578.7	576.9	575.1
135°	622.8	621.5	620.3	619.1	617.9	616.6	614.9	612.8	610.6	608.5	606.4
137.5°	652.3	651.0	649.6	648.2	646.9	645.5	644.0	642.6	641.1	639.6	638.1
140°	671.5	670.3	668.7	667.3	665.8	664.3	663.1	662.0	660.9	659.9	658.8
142.5°	689.2	688.1	686.4	684.8	683.0	681.3	680.0	679.1	678.1	677.1	676.1
145°	714.0	713.1	710.8	708.5	706.2	704.0	702.8	703.0	703.2	703.3	703.4
147.5°	735.7	734.9	732.7	730.5	728.2	726.0	725.1	725.7	726.2	726.7	727.1
150°	748.8	748.0	745.9	743.7	741.6	739.4	738.8	739.8	740.7	741.7	742.6
152.5°	760.9	760.1	758.0	756.0	754.0	751.9	751.4	752.4	753.5	754.6	755.6
155°	777.1	776.4	774.7	773.1	771.5	769.9	769.7	770.9	772.1	773.4	774.6
157.5°	790.7	789.8	788.7	787.6	786.4	785.3	785.3	786.3	787.3	788.3	789.4
160°	798.8	798.1	797.2	796.4	795.7	794.8	794.8	795.7	796.4	797.2	798.1
162.5°	806.2	805.3	804.6	803.9	803.1	802.5	802.5	803.3	804.2	804.9	805.7
165°	815.3	814.3	813.9	813.5	813.1	812.7	812.9	813.7	814.5	815.3	816.1
167.5°	822.9	821.9	821.6	821.1	820.8	820.4	820.6	821.4	822.3	823.0	823.8
170°	826.7	825.8	825.5	825.3	824.9	824.7	824.9	825.8	826.6	827.3	828.2
172.5°	829.6	828.6	828.4	828.1	827.9	827.6	827.9	828.6	829.5	830.3	831.0
175°	832.8	831.8	831.6	831.3	831.0	830.7	831.0	832.0	832.9	833.9	834.8
177.5°	833.3	832.5	832.4	832.3	832.2	832.1	832.4	833.2	833.9	834.7	835.4
180°	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0



TEST NUMBER: P331769-935

CATALOG NUMBER: S122RDIW-S290D710U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	566.2	566.6	569.7	571.2	573.9	575.1	576.4	576.0	576.0	576.6	581.0
5°	567.4	571.3	577.1	582.8	588.3	593.0	596.2	599.3	600.5	606.1	611.1
7.5°	565.3	572.6	582.2	590.9	601.2	609.3	616.0	622.2	626.3	634.6	643.0
10°	562.7	572.8	583.8	595.0	609.2	620.0	630.9	639.4	642.0	654.4	661.4
12.5°	557.3	570.9	584.9	599.3	613.3	628.1	640.2	648.6	658.2	669.3	682.3
15°	549.4	565.0	583.2	601.8	621.7	639.7	652.6	667.3	677.9	690.0	701.4
17.5°	538.0	558.1	581.2	602.7	625.8	645.1	662.9	676.9	684.3	691.3	692.9
20°	528.8	550.5	577.7	603.1	626.2	648.5	666.2	677.9	679.8	680.0	669.7
22.5°	519.0	543.5	572.0	598.0	625.6	650.4	664.1	669.1	661.3	648.1	628.0
25°	500.8	529.3	562.3	592.0	622.2	645.6	650.3	641.5	614.3	585.7	549.6
27.5°	481.2	513.2	548.5	581.6	613.7	628.3	618.1	586.3	537.4	494.8	443.2
30°	466.8	502.7	537.4	574.4	604.2	610.4	587.1	540.4	483.3	419.1	367.6
32.5°	450.4	487.9	526.2	564.4	589.3	583.2	544.8	487.2	420.3	357.1	308.6
35°	427.0	465.6	507.0	545.3	561.1	534.7	477.2	402.3	333.8	275.0	241.5
37.5°	399.8	442.0	484.9	520.1	519.0	475.0	396.7	319.3	261.8	227.0	203.2
40°	380.6	423.3	469.6	499.3	486.6	429.3	344.4	271.5	229.4	201.6	184.3
42.5°	362.1	404.9	451.0	474.6	452.5	382.0	297.5	240.3	205.6	184.0	169.9
45°	330.7	375.9	418.5	431.6	392.1	314.5	240.6	199.1	176.0	160.0	150.2
47.5°	300.0	344.5	383.4	383.6	330.2	255.0	202.9	172.3	152.6	140.2	133.1
50°	281.2	323.5	356.1	351.0	290.4	226.9	181.5	155.1	138.7	129.1	121.7
52.5°	260.1	301.1	329.4	315.0	256.8	199.7	162.2	140.1	126.5	118.1	111.5
55°	229.4	265.8	285.8	263.8	209.5	166.1	137.1	119.7	109.5	102.5	96.8
57.5°	199.2	229.3	241.8	216.3	172.5	137.7	116.0	102.9	92.8	87.7	84.8
60°	180.3	206.0	214.7	186.6	150.0	120.5	102.7	90.6	83.1	79.8	76.9
62.5°	161.7	182.6	186.2	160.5	130.8	105.5	90.1	79.9	75.0	71.8	69.1
65°	134.1	149.2	147.5	126.7	103.5	83.7	72.6	66.3	62.6	58.1	53.2
67.5°	110.5	119.7	114.1	98.6	79.0	65.1	57.8	53.0	48.4	44.2	43.0
70°	95.4	100.7	94.9	80.6	64.7	54.6	48.7	43.0	40.3	39.3	37.5
72.5°	81.0	82.9	76.5	64.3	52.7	45.2	39.4	36.3	34.8	34.0	32.9
75°	60.8	59.5	54.0	44.4	36.6	31.5	29.7	28.6	27.6	26.8	26.2
77.5°	42.7	40.7	35.8	29.5	25.5	23.1	22.0	21.4	20.9	20.5	19.9
80°	32.1	30.7	25.8	21.1	19.4	18.2	17.6	16.8	16.8	16.4	15.8
82.5°	23.5	22.0	17.7	15.5	14.6	13.8	13.3	12.9	12.7	12.8	12.4
85°	12.3	10.0	8.8	8.4	7.8	7.4	7.7	7.2	7.2	7.2	7.1
87.5°	4.1	3.7	3.8	4.0	4.4	4.6	4.6	4.8	5.3	5.2	5.5
90°	2.1	3.5	5.0	6.5	7.7	8.9	9.9	11.0	12.1	12.7	13.4
92.5°	12.1	11.9	11.8	11.6	11.9	12.4	12.9	13.4	13.9	14.3	14.7
95°	34.8	30.3	25.9	21.5	19.7	20.7	21.6	22.6	23.5	24.2	24.9
97.5°	65.3	52.9	40.4	27.9	22.8	25.0	27.1	29.3	31.4	32.0	32.5
100°	88.3	70.0	51.7	33.3	25.2	27.6	29.8	32.1	34.4	35.4	36.5
102.5°	134.7	130.7	126.8	123.0	111.5	92.5	73.4	54.3	35.3	36.7	38.1
105°	187.3	191.3	195.3	199.3	183.0	146.5	109.9	73.4	36.8	38.2	39.7
107.5°	237.5	240.7	243.9	247.2	226.9	183.0	139.2	95.3	51.5	49.9	48.5
110°	269.8	272.7	275.4	278.3	260.3	221.6	182.9	144.2	105.5	92.1	78.7





TEST NUMBER: P331769-935

CATALOG NUMBER: S122RDIW-S290D710U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	300.4	302.9	305.3	307.8	304.3	294.7	285.2	275.6	266.0	217.2	168.3
115°	348.9	351.1	353.4	355.7	358.5	361.9	365.2	368.5	371.9	309.9	247.9
117.5°	392.6	395.2	397.7	400.3	402.7	405.0	407.3	409.6	411.9	396.9	381.9
120°	424.0	425.9	427.9	430.0	432.1	434.5	437.0	439.4	441.8	443.4	445.1
122.5°	451.1	453.1	455.3	457.4	459.8	462.4	465.0	467.6	470.3	471.2	472.2
125°	491.8	493.5	495.2	497.0	499.1	501.7	504.2	506.8	509.3	510.2	511.2
127.5°	529.2	531.2	533.0	535.0	536.9	538.8	540.7	542.6	544.5	545.9	547.3
130°	553.0	555.2	557.3	559.5	561.3	562.7	564.2	565.7	567.2	568.7	570.2
132.5°	576.9	578.7	580.5	582.3	583.9	585.4	586.9	588.4	589.9	591.1	592.4
135°	608.5	610.6	612.8	614.9	616.6	617.9	619.1	620.3	621.5	622.8	624.1
137.5°	639.6	641.1	642.6	644.0	645.5	646.9	648.2	649.6	651.0	652.3	653.6
140°	659.9	660.9	662.0	663.1	664.3	665.8	667.3	668.7	670.3	671.5	672.7
142.5°	677.1	678.1	679.1	680.0	681.3	683.0	684.8	686.4	688.1	689.2	690.3
145°	703.3	703.2	703.0	702.8	704.0	706.2	708.5	710.8	713.1	714.0	714.9
147.5°	726.7	726.2	725.7	725.1	726.0	728.2	730.5	732.7	734.9	735.7	736.4
150°	741.7	740.7	739.8	738.8	739.4	741.6	743.7	745.9	748.0	748.8	749.6
152.5°	754.6	753.5	752.4	751.4	751.9	754.0	756.0	758.0	760.1	760.9	761.6
155°	773.4	772.1	770.9	769.7	769.9	771.5	773.1	774.7	776.4	777.1	777.9
157.5°	788.3	787.3	786.3	785.3	785.3	786.4	787.6	788.7	789.8	790.7	791.7
160°	797.2	796.4	795.7	794.8	794.8	795.7	796.4	797.2	798.1	798.8	799.6
162.5°	804.9	804.2	803.3	802.5	802.5	803.1	803.9	804.6	805.3	806.2	807.1
165°	815.3	814.5	813.7	812.9	812.7	813.1	813.5	813.9	814.3	815.3	816.2
167.5°	823.0	822.3	821.4	820.6	820.4	820.8	821.1	821.6	821.9	822.9	823.8
170°	827.3	826.6	825.8	824.9	824.7	824.9	825.3	825.5	825.8	826.7	827.7
172.5°	830.3	829.5	828.6	827.9	827.6	827.9	828.1	828.4	828.6	829.6	830.5
175°	833.9	832.9	832.0	831.0	830.7	831.0	831.3	831.6	831.8	832.8	833.7
177.5°	834.7	833.9	833.2	832.4	832.1	832.2	832.3	832.4	832.5	833.3	834.1
180°	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	582.6	584.6	585.6	585.6	586.7	586.2	585.7
5°	616.0	619.7	620.6	624.1	626.6	625.9	626.2
7.5°	649.4	655.3	661.2	663.9	664.3	665.9	666.5
10°	669.9	674.8	683.9	682.6	689.4	693.4	686.9
12.5°	689.6	696.2	702.6	704.3	708.2	709.5	706.9
15°	707.4	710.9	711.3	710.3	711.5	710.5	706.8
17.5°	690.8	685.0	673.5	668.0	663.7	657.2	654.6
20°	663.2	646.4	626.8	619.0	609.8	591.9	596.2
22.5°	603.7	584.6	565.0	542.2	531.2	514.2	513.2
25°	511.3	478.2	441.8	416.4	401.5	384.5	377.0
27.5°	397.5	355.9	326.1	311.0	297.2	283.8	283.2
30°	322.7	291.4	268.4	255.5	247.0	241.3	242.5
32.5°	272.0	250.6	235.0	224.3	218.1	213.8	213.7
35°	222.4	207.7	197.7	193.2	188.7	185.6	185.8
37.5°	190.3	181.5	175.9	171.0	168.2	166.6	165.7
40°	173.8	166.6	162.3	159.4	157.0	154.9	154.5
42.5°	160.9	154.9	150.6	148.3	146.1	144.6	144.2
45°	142.8	137.8	134.0	131.4	130.4	129.1	129.1
47.5°	127.0	122.2	119.2	117.5	115.9	114.9	114.9
50°	116.4	112.6	109.9	108.9	107.5	107.0	106.8
52.5°	106.9	104.0	102.1	101.4	100.8	100.1	100.2
55°	93.8	92.3	91.5	90.9	90.0	88.8	89.5
57.5°	83.0	81.6	79.6	77.7	76.8	75.9	76.3
60°	75.3	72.6	69.8	67.7	67.1	65.3	65.3
62.5°	65.6	61.7	58.4	57.2	56.6	55.8	55.6
65°	50.5	48.9	48.1	47.4	46.9	46.9	46.6
67.5°	41.8	41.2	40.3	40.1	39.8	39.6	39.5
70°	36.9	36.2	35.8	35.6	35.2	35.4	34.8
72.5°	32.3	31.7	31.6	31.1	30.8	30.8	30.4
75°	25.4	25.4	25.2	25.1	24.6	24.5	24.6
77.5°	19.5	19.6	19.3	19.2	19.2	19.2	19.0
80°	15.7	15.8	15.7	15.4	15.2	15.4	15.2
82.5°	12.4	12.1	12.1	12.0	12.0	11.9	11.8
85°	7.1	7.2	7.1	6.9	6.9	6.9	7.1
87.5°	5.5	5.6	5.7	5.8	5.8	5.9	5.8
90°	14.0	14.7	15.2	15.5	15.8	16.0	16.3
92.5°	15.1	15.4	15.7	15.8	15.9	16.1	16.3
95°	25.5	26.2	26.4	26.3	26.2	26.1	25.9
97.5°	33.1	33.6	33.9	34.1	34.3	34.4	34.6
100°	37.5	38.7	39.3	39.6	39.9	40.1	40.4
102.5°	39.5	40.9	41.8	42.2	42.5	42.9	43.3
105°	41.2	42.6	43.7	44.2	44.8	45.3	45.8
107.5°	47.0	45.5	45.0	45.5	46.1	46.6	47.1
110°	65.3	51.9	45.5	46.0	46.6	47.1	47.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	119.5	70.6	46.4	46.8	47.3	47.7	48.1
115°	185.8	123.8	88.0	78.4	68.7	59.1	49.4
117.5°	366.9	351.9	328.6	296.9	265.2	233.5	201.8
120°	446.6	448.2	440.0	421.9	403.8	385.7	367.6
122.5°	473.1	474.2	472.9	469.3	465.8	462.4	458.8
125°	512.1	513.1	513.8	514.1	514.5	515.0	515.3
127.5°	548.6	550.0	550.7	550.8	550.9	551.0	551.0
130°	571.6	573.1	573.8	573.6	573.5	573.3	573.3
132.5°	593.7	594.9	595.5	595.3	595.2	595.0	595.0
135°	625.4	626.8	627.3	627.1	626.8	626.5	626.3
137.5°	654.9	656.3	656.7	656.2	655.7	655.3	654.8
140°	673.9	675.1	675.4	674.7	674.0	673.3	672.7
142.5°	691.4	692.5	692.7	692.1	691.4	690.7	690.0
145°	715.8	716.8	717.0	716.3	715.6	714.9	714.3
147.5°	737.1	737.8	737.9	737.3	736.8	736.2	735.6
150°	750.4	751.2	751.3	750.6	749.9	749.2	748.6
152.5°	762.5	763.3	763.3	762.3	761.5	760.6	759.7
155°	778.8	779.5	779.4	778.3	777.3	776.2	775.2
157.5°	792.6	793.5	793.4	792.4	791.3	790.3	789.2
160°	800.5	801.2	801.2	800.2	799.3	798.4	797.5
162.5°	808.0	808.9	808.8	807.6	806.5	805.3	804.2
165°	817.1	818.0	818.0	817.1	816.2	815.3	814.3
167.5°	824.8	825.6	825.5	824.3	823.1	821.9	820.7
170°	828.5	829.5	829.4	828.2	827.0	825.8	824.6
172.5°	831.5	832.4	832.2	831.0	829.8	828.6	827.4
175°	834.6	835.5	835.3	834.0	832.7	831.3	830.0
177.5°	834.7	835.5	835.4	834.5	833.4	832.5	831.6
180°	833.0	833.0	833.0	833.0	833.0	833.0	833.0

(END OF REPORT)