

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: FAIL-SAFE

Report Number: P

Luminaire Tested: **4APN-X-34L950-UNV-NP**

Issue Date: 06/06/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 06/06/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 4APN-X-34L950-UNV-NP  
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture EXAM Light w/ Nature Pattern Lens  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

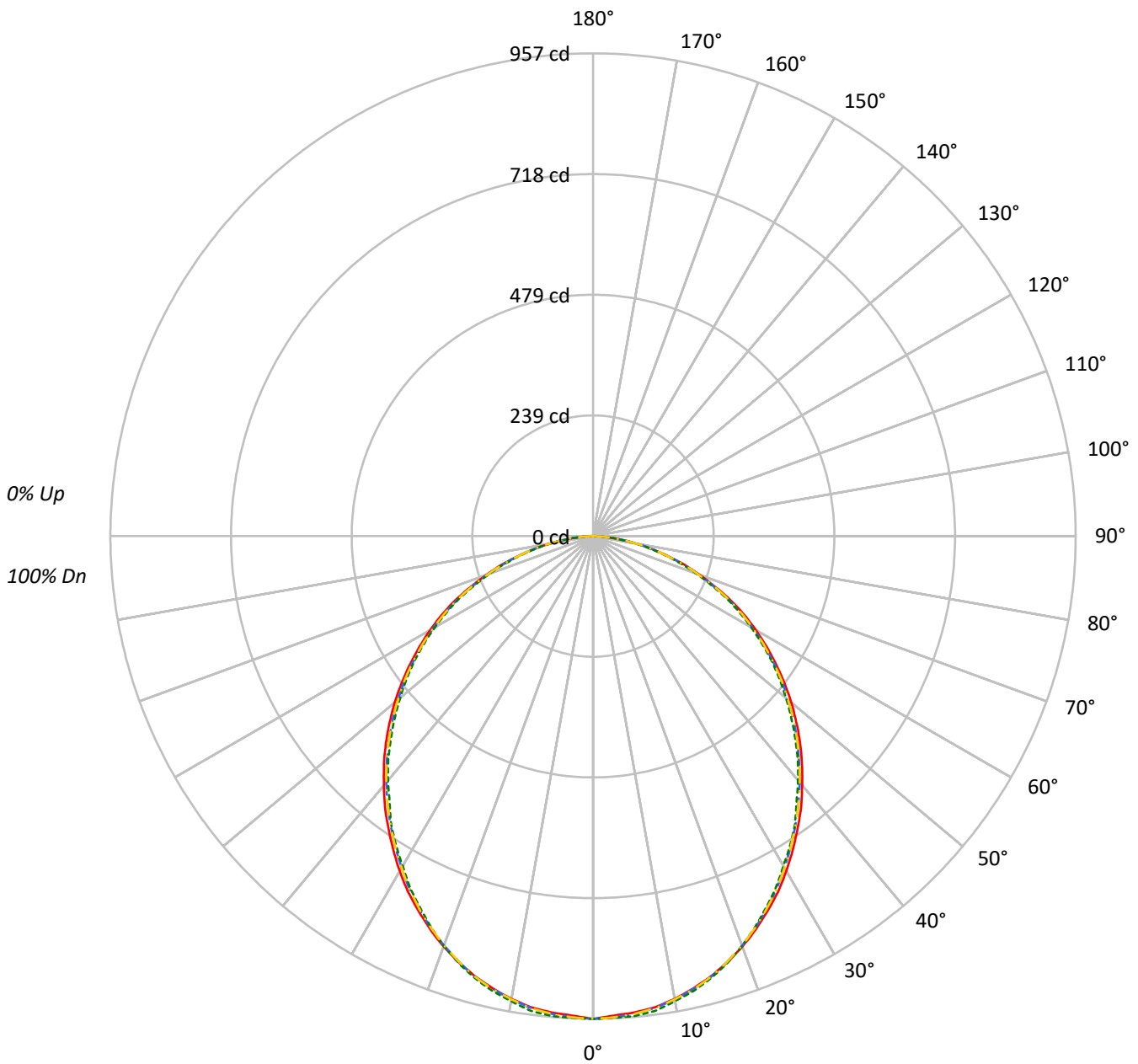
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2490.5 lumens  
Efficiency: N/A  
Efficacy: 67.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 36.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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



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



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	86	86	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	73	73	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	62	62	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	53	53	53	51
5	76	64	55	48	74	63	54	48	60	53	47	59	52	47	57	51	46	46	46	46	44
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	41	41	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	36	36	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	33	33	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	30	30	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	27	27	27	25

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

	0°	90°	180°	270°
0°	8831	8831	8831	8831
5°	8779	8844	8779	8844
10°	8728	8771	8728	8771
15°	8630	8663	8630	8663
20°	8504	8492	8504	8492
25°	8341	8270	8341	8270
30°	8168	8043	8168	8043
35°	7965	7859	7965	7859
40°	7771	7615	7771	7615
45°	7579	7396	7579	7396
50°	7365	7164	7365	7164
55°	7126	6957	7126	6957
60°	6881	6685	6881	6685
65°	6584	6379	6584	6379
70°	6086	5897	6086	5897
75°	5500	5333	5500	5333
80°	4718	4596	4718	4596
85°	3589	3589	3589	3589



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.3	3.6
10°-20°	255.1	10.2
20°-30°	376.1	15.1
30°-40°	439.0	17.6
40°-50°	442.6	17.8
50°-60°	391.2	15.7
60°-70°	292.5	11.7
70°-80°	162.1	6.5
80°-90°	41.6	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	721.5	29.0
0°-40°	1160.5	46.6
0°-60°	1994.3	80.1
0°-90°	2490.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2490.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	957	957	957	957	957	
5°	948	955	948	955	948	90
15°	904	907	904	907	904	255
25°	819	812	819	812	819	378
35°	707	698	707	698	707	443
45°	581	567	581	567	581	448
55°	443	432	443	432	443	396
65°	302	292	302	292	302	297
75°	154	150	154	150	154	164
85°	34	34	34	34	34	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2
2.5°	951.4	956.1	960.8	959.6	956.1	953.7	954.9	954.9	956.1	956.1	956.1
5°	947.9	952.6	956.1	954.9	951.4	950.2	950.2	950.2	952.6	954.9	952.6
7.5°	942.1	945.6	949.1	947.9	944.4	943.2	943.2	944.4	946.7	949.1	946.7
10°	931.6	936.2	939.7	937.4	933.9	931.6	931.6	931.6	933.9	936.2	933.9
12.5°	918.7	922.2	925.7	924.6	921.1	918.7	918.7	918.7	921.1	923.4	921.1
15°	903.5	907.0	910.5	909.4	905.9	903.5	903.5	903.5	905.9	907.0	905.9
17.5°	885.9	889.5	893.0	890.7	885.9	883.6	883.6	883.6	885.9	887.1	885.9
20°	866.1	869.6	871.9	869.6	864.9	862.6	861.4	861.4	863.7	864.9	863.7
22.5°	843.9	846.2	848.6	846.2	841.5	839.2	838.0	836.9	838.0	839.2	838.0
25°	819.4	821.7	824.0	821.7	817.0	813.5	812.4	811.2	812.4	812.4	812.4
27.5°	794.8	796.0	798.3	794.8	790.2	786.7	785.5	784.3	785.5	785.5	785.5
30°	766.7	767.9	770.2	766.7	760.9	757.4	756.2	755.0	755.0	755.0	755.0
32.5°	737.5	739.9	742.2	737.5	731.7	728.2	727.0	725.8	727.0	727.0	727.0
35°	707.2	708.3	710.7	707.2	701.3	697.8	695.5	694.3	696.7	697.8	696.7
37.5°	677.9	679.1	680.3	676.7	670.9	667.4	665.0	663.9	662.7	662.7	662.7
40°	645.2	646.3	648.7	645.2	639.3	635.8	633.5	632.3	632.3	632.3	632.3
42.5°	613.6	614.8	616.0	612.5	606.6	603.1	600.8	599.6	600.8	600.8	600.8
45°	580.9	580.9	582.1	578.6	573.9	570.3	568.0	566.8	566.8	566.8	566.8
47.5°	547.0	548.2	549.3	545.8	541.1	537.6	535.3	533.0	533.0	533.0	533.0
50°	513.1	513.1	514.3	510.8	506.1	502.6	501.4	500.3	499.1	499.1	499.1
52.5°	478.1	479.3	480.4	476.9	473.4	469.9	467.5	466.3	466.3	466.3	466.3
55°	443.0	443.0	444.1	441.8	438.3	434.8	432.5	431.3	432.5	432.5	432.5
57.5°	407.9	409.1	410.3	406.8	403.3	399.8	398.6	397.4	397.4	397.4	397.4
60°	372.9	372.9	374.1	371.7	368.2	364.7	363.5	362.3	362.3	362.3	362.3
62.5°	337.8	337.8	338.9	336.6	333.1	329.6	328.4	327.3	327.3	327.3	327.3
65°	301.6	301.6	301.6	299.2	296.9	295.7	294.6	293.4	292.2	292.2	292.2
67.5°	261.8	261.8	263.0	260.6	258.3	257.1	255.9	254.8	253.6	253.6	253.6
70°	225.6	225.6	226.7	225.6	223.2	222.1	220.9	219.7	218.6	218.6	218.6
72.5°	190.5	190.5	190.5	189.4	188.2	187.0	185.9	184.7	183.5	183.5	183.5
75°	154.3	154.3	155.4	154.3	153.1	151.9	150.7	150.7	149.6	149.6	149.6
77.5°	120.4	121.5	122.7	121.5	120.4	119.2	118.0	118.0	116.9	116.9	116.9
80°	88.8	90.0	91.2	90.0	88.8	87.7	86.5	86.5	86.5	86.5	86.5
82.5°	59.7	60.8	62.0	60.8	59.7	59.7	58.5	58.5	58.5	58.5	58.5
85°	33.9	35.0	36.2	36.2	35.0	35.0	33.9	33.9	33.9	33.9	33.9
87.5°	12.8	14.0	15.2	15.2	14.0	14.0	14.0	14.0	14.0	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2
2.5°	954.9	954.9	953.7	956.1	959.6	960.8	956.1	951.4	956.1	960.8	959.6
5°	950.2	950.2	950.2	951.4	954.9	956.1	952.6	947.9	952.6	956.1	954.9
7.5°	944.4	943.2	943.2	944.4	947.9	949.1	945.6	942.1	945.6	949.1	947.9
10°	931.6	931.6	931.6	933.9	937.4	939.7	936.2	931.6	936.2	939.7	937.4
12.5°	918.7	918.7	918.7	921.1	924.6	925.7	922.2	918.7	922.2	925.7	924.6
15°	903.5	903.5	903.5	905.9	909.4	910.5	907.0	903.5	907.0	910.5	909.4
17.5°	883.6	883.6	883.6	885.9	890.7	893.0	889.5	885.9	889.5	893.0	890.7
20°	861.4	861.4	862.6	864.9	869.6	871.9	869.6	866.1	869.6	871.9	869.6
22.5°	836.9	838.0	839.2	841.5	846.2	848.6	846.2	843.9	846.2	848.6	846.2
25°	811.2	812.4	813.5	817.0	821.7	824.0	821.7	819.4	821.7	824.0	821.7
27.5°	784.3	785.5	786.7	790.2	794.8	798.3	796.0	794.8	796.0	798.3	794.8
30°	755.0	756.2	757.4	760.9	766.7	770.2	767.9	766.7	767.9	770.2	766.7
32.5°	725.8	727.0	728.2	731.7	737.5	742.2	739.9	737.5	739.9	742.2	737.5
35°	694.3	695.5	697.8	701.3	707.2	710.7	708.3	707.2	708.3	710.7	707.2
37.5°	663.9	665.0	667.4	670.9	676.7	680.3	679.1	677.9	679.1	680.3	676.7
40°	632.3	633.5	635.8	639.3	645.2	648.7	646.3	645.2	646.3	648.7	645.2
42.5°	599.6	600.8	603.1	606.6	612.5	616.0	614.8	613.6	614.8	616.0	612.5
45°	566.8	568.0	570.3	573.9	578.6	582.1	580.9	580.9	580.9	582.1	578.6
47.5°	533.0	535.3	537.6	541.1	545.8	549.3	548.2	547.0	548.2	549.3	545.8
50°	500.3	501.4	502.6	506.1	510.8	514.3	513.1	513.1	513.1	514.3	510.8
52.5°	466.3	467.5	469.9	473.4	476.9	480.4	479.3	478.1	479.3	480.4	476.9
55°	431.3	432.5	434.8	438.3	441.8	444.1	443.0	443.0	443.0	444.1	441.8
57.5°	397.4	398.6	399.8	403.3	406.8	410.3	409.1	407.9	409.1	410.3	406.8
60°	362.3	363.5	364.7	368.2	371.7	374.1	372.9	372.9	372.9	374.1	371.7
62.5°	327.3	328.4	329.6	333.1	336.6	338.9	337.8	337.8	337.8	338.9	336.6
65°	293.4	294.6	295.7	296.9	299.2	301.6	301.6	301.6	301.6	301.6	299.2
67.5°	254.8	255.9	257.1	258.3	260.6	263.0	261.8	261.8	261.8	263.0	260.6
70°	219.7	220.9	222.1	223.2	225.6	226.7	225.6	225.6	225.6	226.7	225.6
72.5°	184.7	185.9	187.0	188.2	189.4	190.5	190.5	190.5	190.5	190.5	189.4
75°	150.7	150.7	151.9	153.1	154.3	155.4	154.3	154.3	154.3	155.4	154.3
77.5°	118.0	118.0	119.2	120.4	121.5	122.7	121.5	120.4	121.5	122.7	121.5
80°	86.5	86.5	87.7	88.8	90.0	91.2	90.0	88.8	90.0	91.2	90.0
82.5°	58.5	58.5	59.7	59.7	60.8	62.0	60.8	59.7	60.8	62.0	60.8
85°	33.9	33.9	35.0	35.0	36.2	36.2	35.0	33.9	35.0	36.2	36.2
87.5°	14.0	14.0	14.0	14.0	15.2	15.2	14.0	12.8	14.0	15.2	15.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2
2.5°	956.1	953.7	954.9	954.9	956.1	956.1	956.1	954.9	954.9	953.7	956.1
5°	951.4	950.2	950.2	950.2	952.6	954.9	952.6	950.2	950.2	950.2	951.4
7.5°	944.4	943.2	943.2	944.4	946.7	949.1	946.7	944.4	943.2	943.2	944.4
10°	933.9	931.6	931.6	931.6	933.9	936.2	933.9	931.6	931.6	931.6	933.9
12.5°	921.1	918.7	918.7	918.7	921.1	923.4	921.1	918.7	918.7	918.7	921.1
15°	905.9	903.5	903.5	903.5	905.9	907.0	905.9	903.5	903.5	903.5	905.9
17.5°	885.9	883.6	883.6	883.6	885.9	887.1	885.9	883.6	883.6	883.6	885.9
20°	864.9	862.6	861.4	861.4	863.7	864.9	863.7	861.4	861.4	862.6	864.9
22.5°	841.5	839.2	838.0	836.9	838.0	839.2	838.0	836.9	838.0	839.2	841.5
25°	817.0	813.5	812.4	811.2	812.4	812.4	812.4	811.2	812.4	813.5	817.0
27.5°	790.2	786.7	785.5	784.3	785.5	785.5	785.5	784.3	785.5	786.7	790.2
30°	760.9	757.4	756.2	755.0	755.0	755.0	755.0	755.0	756.2	757.4	760.9
32.5°	731.7	728.2	727.0	725.8	727.0	727.0	727.0	725.8	727.0	728.2	731.7
35°	701.3	697.8	695.5	694.3	696.7	697.8	696.7	694.3	695.5	697.8	701.3
37.5°	670.9	667.4	665.0	663.9	662.7	662.7	662.7	663.9	665.0	667.4	670.9
40°	639.3	635.8	633.5	632.3	632.3	632.3	632.3	632.3	633.5	635.8	639.3
42.5°	606.6	603.1	600.8	599.6	600.8	600.8	600.8	599.6	600.8	603.1	606.6
45°	573.9	570.3	568.0	566.8	566.8	566.8	566.8	566.8	568.0	570.3	573.9
47.5°	541.1	537.6	535.3	533.0	533.0	533.0	533.0	533.0	535.3	537.6	541.1
50°	506.1	502.6	501.4	500.3	499.1	499.1	499.1	500.3	501.4	502.6	506.1
52.5°	473.4	469.9	467.5	466.3	466.3	466.3	466.3	466.3	467.5	469.9	473.4
55°	438.3	434.8	432.5	431.3	432.5	432.5	432.5	431.3	432.5	434.8	438.3
57.5°	403.3	399.8	398.6	397.4	397.4	397.4	397.4	397.4	398.6	399.8	403.3
60°	368.2	364.7	363.5	362.3	362.3	362.3	362.3	362.3	363.5	364.7	368.2
62.5°	333.1	329.6	328.4	327.3	327.3	327.3	327.3	327.3	328.4	329.6	333.1
65°	296.9	295.7	294.6	293.4	292.2	292.2	292.2	293.4	294.6	295.7	296.9
67.5°	258.3	257.1	255.9	254.8	253.6	253.6	253.6	254.8	255.9	257.1	258.3
70°	223.2	222.1	220.9	219.7	218.6	218.6	218.6	219.7	220.9	222.1	223.2
72.5°	188.2	187.0	185.9	184.7	183.5	183.5	183.5	184.7	185.9	187.0	188.2
75°	153.1	151.9	150.7	150.7	149.6	149.6	149.6	150.7	150.7	151.9	153.1
77.5°	120.4	119.2	118.0	118.0	116.9	116.9	116.9	118.0	118.0	119.2	120.4
80°	88.8	87.7	86.5	86.5	86.5	86.5	86.5	86.5	86.5	87.7	88.8
82.5°	59.7	59.7	58.5	58.5	58.5	58.5	58.5	58.5	58.5	59.7	59.7
85°	35.0	35.0	33.9	33.9	33.9	33.9	33.9	33.9	33.9	35.0	35.0
87.5°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	957.2	957.2	957.2	957.2
2.5°	959.6	960.8	956.1	951.4
5°	954.9	956.1	952.6	947.9
7.5°	947.9	949.1	945.6	942.1
10°	937.4	939.7	936.2	931.6
12.5°	924.6	925.7	922.2	918.7
15°	909.4	910.5	907.0	903.5
17.5°	890.7	893.0	889.5	885.9
20°	869.6	871.9	869.6	866.1
22.5°	846.2	848.6	846.2	843.9
25°	821.7	824.0	821.7	819.4
27.5°	794.8	798.3	796.0	794.8
30°	766.7	770.2	767.9	766.7
32.5°	737.5	742.2	739.9	737.5
35°	707.2	710.7	708.3	707.2
37.5°	676.7	680.3	679.1	677.9
40°	645.2	648.7	646.3	645.2
42.5°	612.5	616.0	614.8	613.6
45°	578.6	582.1	580.9	580.9
47.5°	545.8	549.3	548.2	547.0
50°	510.8	514.3	513.1	513.1
52.5°	476.9	480.4	479.3	478.1
55°	441.8	444.1	443.0	443.0
57.5°	406.8	410.3	409.1	407.9
60°	371.7	374.1	372.9	372.9
62.5°	336.6	338.9	337.8	337.8
65°	299.2	301.6	301.6	301.6
67.5°	260.6	263.0	261.8	261.8
70°	225.6	226.7	225.6	225.6
72.5°	189.4	190.5	190.5	190.5
75°	154.3	155.4	154.3	154.3
77.5°	121.5	122.7	121.5	120.4
80°	90.0	91.2	90.0	88.8
82.5°	60.8	62.0	60.8	59.7
85°	36.2	36.2	35.0	33.9
87.5°	15.2	15.2	14.0	12.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)