

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-35L935-X-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-35L935-X-UNV-NP  
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture Ambient Light w/ Nature Pattern Lens  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

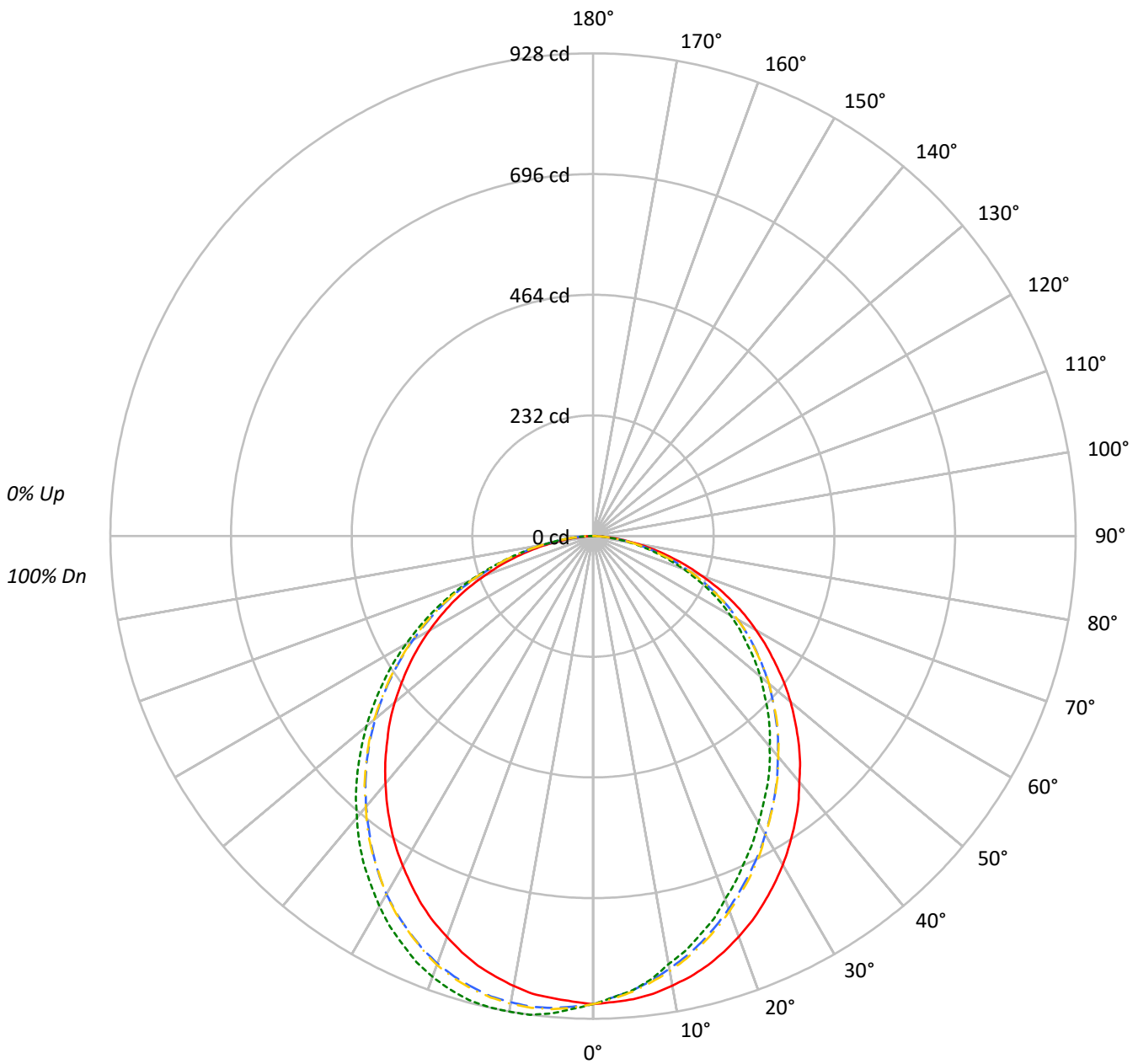
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2413.3 lumens  
Efficiency: N/A  
Efficacy: 59.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 40.4  
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				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	94	92	94	91	89	90	88	86	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	53	53	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	41	41	41	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	36	36	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	32	32	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	27	27	27	25

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

	0°	90°	180°	270°
0°	8303	8303	8303	8303
5°	8277	8118	8258	8532
10°	8221	7829	8230	8698
15°	8157	7583	8168	8819
20°	8045	7295	8055	8855
25°	7917	7025	7948	8818
30°	7776	6778	7797	8752
35°	7613	6581	7648	8656
40°	7429	6363	7479	8508
45°	7291	6203	7304	8353
50°	7116	6034	7145	8169
55°	6893	5812	6942	7941
60°	6685	5635	6706	7663
65°	6423	5401	6423	7333
70°	5986	4996	5959	6838
75°	5443	4534	5372	6131
80°	4707	3895	4543	5244
85°	3663	2911	3440	4319



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.0	3.5
10°-20°	241.3	10.0
20°-30°	358.7	14.9
30°-40°	422.8	17.5
40°-50°	430.5	17.8
50°-60°	383.5	15.9
60°-70°	288.9	12.0
70°-80°	160.7	6.7
80°-90°	41.8	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°	685.1	28.4
0°-40°	1107.9	45.9
0°-60°	1921.9	79.6
0°-90°	2413.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2413.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	900	900	900	900	900	
5°	894	876	892	921	894	85
15°	854	794	855	923	854	241
25°	778	690	781	866	778	358
35°	676	584	679	768	676	423
45°	559	475	560	640	559	431
55°	428	361	432	494	428	384
65°	294	247	294	336	294	290
75°	153	127	151	172	153	162
85°	35	28	32	41	35	42
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°	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9
2.5°	896.7	896.7	897.8	893.7	888.6	886.6	885.6	884.6	886.6	887.6	886.6
5°	893.7	891.7	889.6	884.6	878.5	874.4	872.4	871.3	873.4	876.5	873.4
7.5°	887.6	883.6	879.5	872.4	865.2	859.1	856.1	854.0	856.1	859.1	857.1
10°	877.5	872.4	866.2	858.1	848.0	840.8	837.7	834.7	835.7	835.7	835.7
12.5°	867.2	860.1	853.0	842.8	831.6	823.5	818.4	814.3	816.3	817.4	817.4
15°	854.0	844.8	834.7	823.5	812.3	803.2	797.1	792.9	793.9	793.9	794.9
17.5°	837.7	827.6	817.4	804.2	790.9	780.7	773.7	768.5	770.5	771.6	772.6
20°	819.4	808.2	797.1	782.8	768.5	757.3	750.2	744.1	743.0	743.0	744.1
22.5°	800.1	787.8	774.7	759.4	744.1	731.9	724.8	718.6	717.6	717.6	718.6
25°	777.7	764.4	751.2	735.9	719.6	707.5	698.3	692.1	691.1	690.1	692.1
27.5°	754.3	741.0	727.8	712.5	695.3	683.0	673.9	667.7	665.7	664.7	666.7
30°	729.9	714.6	700.4	684.0	668.7	656.6	647.4	640.2	638.2	636.2	638.2
32.5°	703.4	688.1	672.9	656.6	641.3	629.1	620.0	612.8	610.7	609.7	611.7
35°	675.9	660.6	646.4	630.1	614.8	602.6	593.4	587.3	585.3	584.3	585.3
37.5°	648.4	633.1	618.8	602.6	587.3	575.1	565.9	559.8	558.8	557.8	558.8
40°	616.8	603.6	589.3	574.1	558.8	546.7	539.5	532.4	530.3	528.3	531.3
42.5°	589.3	576.2	561.9	547.7	532.4	520.2	512.0	505.9	503.9	502.9	503.9
45°	558.8	544.6	530.3	517.1	502.9	491.6	483.5	477.4	476.4	475.4	476.4
47.5°	526.3	514.0	501.8	488.6	474.4	463.1	456.0	449.9	447.9	445.9	447.9
50°	495.8	483.5	471.3	459.1	445.9	435.6	428.5	422.5	421.4	420.4	421.4
52.5°	463.1	451.0	439.7	427.5	416.3	406.1	399.0	394.0	393.0	391.9	393.0
55°	428.5	418.4	408.2	398.0	386.8	377.7	371.6	365.4	363.4	361.3	363.4
57.5°	396.0	386.8	376.6	366.5	356.3	348.1	342.1	336.9	335.9	334.9	335.9
60°	362.3	354.2	345.1	335.9	325.7	317.6	312.5	308.4	306.4	305.4	306.4
62.5°	328.8	320.7	313.5	304.4	295.2	289.0	284.0	279.9	277.9	276.9	277.9
65°	294.2	287.0	279.9	271.8	264.6	258.5	253.5	249.4	248.4	247.4	247.4
67.5°	258.5	252.4	246.4	239.2	231.1	225.0	219.9	216.9	215.8	214.7	215.8
70°	221.9	216.9	210.7	204.6	198.5	193.4	190.4	187.3	186.2	185.2	185.2
72.5°	187.3	183.2	178.1	173.1	168.0	162.8	159.8	157.8	156.7	155.7	155.7
75°	152.7	148.6	145.6	141.5	136.4	133.3	130.3	128.3	127.2	127.2	127.2
77.5°	120.1	117.1	114.1	109.9	106.9	103.8	101.8	100.8	99.8	99.8	99.8
80°	88.6	86.5	84.5	82.4	79.4	76.3	75.3	74.3	73.3	73.3	73.3
82.5°	60.0	59.0	57.0	55.0	52.9	51.9	50.9	49.9	49.9	49.9	49.9
85°	34.6	33.6	32.5	31.5	30.5	30.5	29.5	28.5	27.5	27.5	27.5
87.5°	14.3	14.3	14.3	13.3	12.2	12.2	12.2	12.2	12.2	12.2	12.2
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):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9
2.5°	884.6	886.6	888.6	891.7	894.7	897.8	896.7	895.7	899.9	904.9	906.0
5°	871.3	873.4	876.5	881.5	886.6	890.7	891.7	891.7	899.9	907.0	909.0
7.5°	855.1	858.1	862.2	867.2	874.4	880.5	883.6	887.6	895.7	904.9	909.0
10°	834.7	839.8	845.8	853.0	860.1	867.2	873.4	878.5	888.6	898.9	904.9
12.5°	816.3	821.5	827.6	835.7	844.8	854.0	860.1	867.2	879.5	891.7	898.9
15°	796.0	801.1	808.2	816.3	826.6	836.7	845.8	855.1	867.2	880.5	888.6
17.5°	773.7	778.7	785.8	796.0	807.2	818.4	828.6	838.7	853.0	867.2	876.5
20°	746.2	753.3	762.4	772.6	785.8	799.1	809.2	820.4	835.7	851.0	861.1
22.5°	719.6	726.8	737.0	749.2	763.4	777.7	789.9	802.1	818.4	833.7	844.8
25°	694.2	702.4	712.5	724.8	738.0	752.3	766.5	780.7	797.1	813.3	824.5
27.5°	668.7	675.9	686.1	698.3	713.5	727.8	742.0	756.3	773.7	790.9	803.2
30°	640.2	648.4	657.6	669.8	686.1	702.4	716.6	731.9	749.2	766.5	778.7
32.5°	613.8	621.0	630.1	642.3	658.6	674.9	690.1	706.4	722.8	740.0	752.3
35°	587.3	594.5	603.6	615.8	632.1	648.4	663.7	679.0	695.3	711.5	723.8
37.5°	560.9	568.0	577.2	589.3	604.6	621.0	635.2	650.5	666.7	683.0	694.2
40°	533.4	540.5	547.7	559.8	575.1	591.4	605.7	621.0	637.2	653.5	664.7
42.5°	505.9	513.0	522.2	534.4	548.7	562.9	577.2	591.4	606.7	622.0	633.1
45°	478.4	484.5	493.7	504.9	519.2	532.4	546.7	559.8	575.1	589.3	600.6
47.5°	449.9	456.0	463.1	474.4	488.6	502.9	517.1	530.3	543.6	557.8	568.0
50°	422.5	428.5	436.7	446.9	460.1	473.4	485.5	497.8	511.0	524.2	533.4
52.5°	394.0	400.1	407.2	417.4	428.5	440.7	452.0	464.1	476.4	488.6	497.8
55°	365.4	369.5	375.6	384.8	397.0	409.2	420.4	431.6	442.8	453.0	462.1
57.5°	336.9	342.1	349.2	357.3	367.5	377.7	387.8	398.0	408.2	418.4	426.5
60°	308.4	312.5	317.6	324.7	334.9	344.1	354.2	363.4	372.6	381.7	388.8
62.5°	278.9	283.0	288.0	295.2	303.3	311.5	320.7	328.8	336.9	345.1	352.2
65°	248.4	252.4	257.5	263.6	270.8	277.9	286.0	294.2	300.3	306.4	313.5
67.5°	216.9	220.9	226.0	231.1	237.1	244.3	251.4	258.5	264.6	270.8	275.9
70°	186.2	189.3	194.4	198.5	203.6	208.6	214.7	220.9	225.0	230.0	236.1
72.5°	156.7	159.8	163.8	168.0	171.0	175.1	181.2	186.2	191.4	197.5	200.5
75°	128.3	130.3	133.3	136.4	139.5	142.5	146.6	150.7	154.7	157.8	161.8
77.5°	99.8	101.8	104.8	106.9	108.9	110.9	114.1	117.1	120.1	122.2	126.2
80°	73.3	75.3	77.4	79.4	81.4	83.4	84.5	85.5	89.6	92.7	94.7
82.5°	49.9	50.9	51.9	53.9	55.0	56.0	57.0	57.0	59.0	61.0	64.2
85°	28.5	29.5	30.5	30.5	30.5	30.5	31.5	32.5	33.6	35.6	37.6
87.5°	11.2	11.2	12.2	12.2	12.2	12.2	12.2	12.2	13.3	15.3	16.3
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°	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9
2.5°	904.9	906.0	908.0	909.0	910.0	910.0	911.0	912.0	910.0	908.0	907.0
5°	910.0	911.0	914.1	917.1	919.1	921.2	920.2	919.1	917.1	914.1	912.0
7.5°	911.0	914.1	917.1	921.2	924.3	928.4	926.3	924.3	920.2	916.1	913.1
10°	908.0	912.0	917.1	922.2	925.3	928.4	926.3	924.3	920.2	915.1	911.0
12.5°	903.9	909.0	915.1	920.2	923.3	927.3	924.3	921.2	916.1	911.0	906.0
15°	894.7	900.9	908.0	914.1	919.1	923.3	920.2	918.1	912.0	904.9	897.8
17.5°	883.6	891.7	898.9	906.0	910.0	914.1	912.0	910.0	902.9	894.7	886.6
20°	870.3	878.5	885.6	892.7	897.8	901.9	898.9	895.7	888.6	881.5	873.4
22.5°	854.0	862.2	870.3	877.5	882.5	886.6	882.5	877.5	870.3	863.2	855.1
25°	833.7	842.8	852.0	859.1	862.2	866.2	862.2	858.1	851.0	843.8	834.7
27.5°	813.3	822.5	831.6	838.7	841.8	845.8	841.8	837.7	830.6	823.5	814.3
30°	789.9	799.1	808.2	815.3	818.4	821.5	817.4	813.3	807.2	800.1	790.9
32.5°	763.4	772.6	779.7	786.8	790.9	794.9	790.9	787.8	780.7	771.6	762.4
35°	734.9	744.1	753.3	760.4	764.4	768.5	763.4	758.3	752.3	745.1	737.0
37.5°	703.4	713.5	723.8	731.9	734.9	739.0	734.9	729.9	723.8	716.6	707.5
40°	673.9	683.0	692.1	700.4	703.4	706.4	702.4	698.3	691.1	684.0	674.9
42.5°	643.3	652.5	660.6	667.7	670.8	674.9	670.8	665.7	660.6	654.5	646.4
45°	610.7	620.0	627.1	634.2	637.2	640.2	636.2	631.1	626.0	621.0	612.8
47.5°	577.2	585.3	592.4	599.6	601.6	604.6	600.6	597.5	592.4	587.3	580.2
50°	542.5	550.7	557.8	563.9	565.9	569.1	564.9	560.9	556.8	552.7	546.7
52.5°	506.9	514.0	521.2	527.3	529.3	531.3	527.3	523.2	519.2	515.0	508.9
55°	470.3	477.4	484.5	489.6	491.6	493.7	489.6	486.5	482.5	479.4	473.4
57.5°	433.6	440.7	446.9	452.0	454.0	456.0	452.0	447.9	444.9	441.7	436.7
60°	396.0	403.1	408.2	412.2	414.3	415.3	411.2	408.2	406.1	404.1	399.0
62.5°	359.3	364.4	369.5	372.6	374.6	375.6	372.6	370.6	368.5	366.5	362.3
65°	320.7	326.8	330.8	333.9	334.9	335.9	332.8	330.8	328.8	326.8	323.7
67.5°	281.9	287.0	290.1	293.2	294.2	294.2	294.2	293.2	291.2	288.0	285.0
70°	243.3	247.4	250.4	252.4	253.5	253.5	251.4	249.4	249.4	248.4	246.4
72.5°	203.6	206.6	208.6	210.7	210.7	210.7	210.7	211.7	210.7	208.6	205.6
75°	166.0	169.0	171.0	172.0	172.0	172.0	172.0	173.1	172.0	171.0	169.0
77.5°	130.3	132.3	133.3	134.3	134.3	134.3	135.3	136.4	135.3	134.3	133.3
80°	96.7	97.7	98.7	99.8	98.7	98.7	99.8	101.8	100.8	99.8	98.7
82.5°	66.2	67.2	68.2	68.2	69.2	70.3	70.3	70.3	70.3	69.2	68.2
85°	39.7	40.8	40.8	40.8	40.8	40.8	41.8	42.8	42.8	41.8	41.8
87.5°	18.3	19.4	18.3	17.3	16.3	16.3	18.3	20.4	20.4	19.4	19.4
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°	899.9	899.9	899.9	899.9
2.5°	908.0	907.0	901.9	896.7
5°	911.0	908.0	900.9	893.7
7.5°	911.0	907.0	896.7	887.6
10°	906.0	899.9	888.6	877.5
12.5°	899.9	892.7	879.5	867.2
15°	890.7	882.5	868.2	854.0
17.5°	877.5	867.2	853.0	837.7
20°	864.2	853.0	835.7	819.4
22.5°	845.8	835.7	817.4	800.1
25°	825.6	814.3	796.0	777.7
27.5°	804.2	790.9	772.6	754.3
30°	779.7	766.5	748.2	729.9
32.5°	753.3	741.0	722.8	703.4
35°	726.8	713.5	695.3	675.9
37.5°	697.3	685.0	666.7	648.4
40°	665.7	653.5	635.2	616.8
42.5°	636.2	625.0	606.7	589.3
45°	603.6	592.4	575.1	558.8
47.5°	570.1	558.8	542.5	526.3
50°	537.4	526.3	511.0	495.8
52.5°	500.8	491.6	477.4	463.1
55°	465.1	456.0	441.7	428.5
57.5°	429.6	421.4	408.2	396.0
60°	391.9	383.7	373.6	362.3
62.5°	356.3	349.2	338.9	328.8
65°	318.6	312.5	303.3	294.2
67.5°	279.9	274.8	266.7	258.5
70°	241.3	235.1	229.0	221.9
72.5°	202.6	199.5	193.4	187.3
75°	166.0	162.8	157.8	152.7
77.5°	131.3	128.3	124.2	120.1
80°	96.7	94.7	91.6	88.6
82.5°	67.2	65.2	63.1	60.0
85°	40.8	38.7	36.6	34.6
87.5°	18.3	17.3	15.3	14.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)