

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-26L940-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-26L940-UNV-NP
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture EXAM Light w/ Nature Pattern Lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

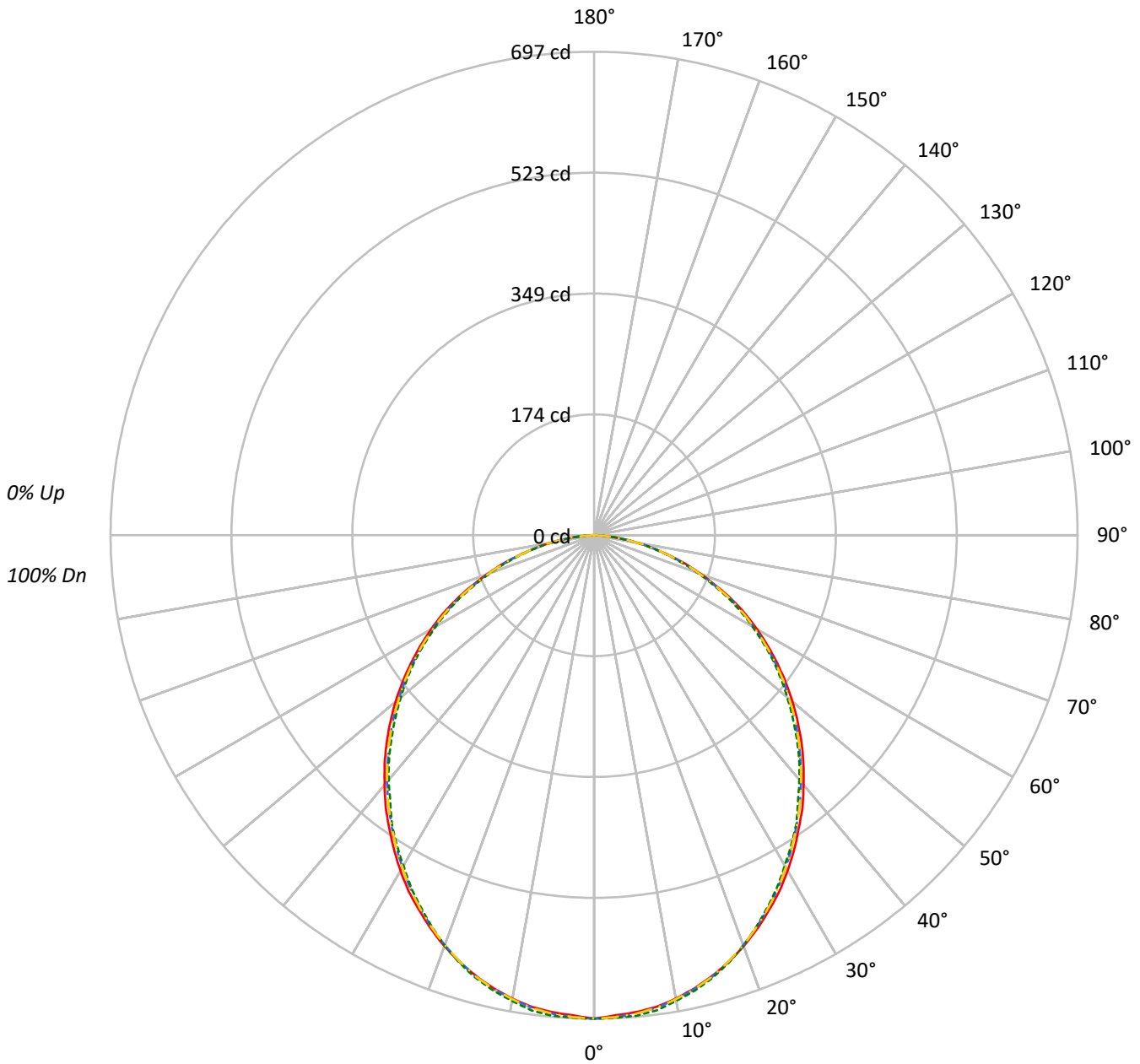
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1813.4 lumens
Efficiency: N/A
Efficacy: 64.3 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): 28.2
Input Voltage (V): 120
Input Current (A_{in}): 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°	6431	6431	6431	6431
5°	6392	6439	6392	6439
10°	6355	6387	6355	6387
15°	6283	6308	6283	6308
20°	6191	6183	6191	6183
25°	6072	6021	6072	6021
30°	5948	5857	5948	5857
35°	5798	5723	5798	5723
40°	5658	5545	5658	5545
45°	5518	5386	5518	5386
50°	5362	5216	5362	5216
55°	5188	5065	5188	5065
60°	5008	4868	5008	4868
65°	4792	4646	4792	4646
70°	4429	4292	4429	4292
75°	4003	3882	4003	3882
80°	3438	3347	3438	3347
85°	2615	2615	2615	2615



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	3.6
10°-20°	185.8	10.2
20°-30°	273.8	15.1
30°-40°	319.6	17.6
40°-50°	322.3	17.8
50°-60°	284.8	15.7
60°-70°	213.0	11.7
70°-80°	118.1	6.5
80°-90°	30.3	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°	525.4	29.0
0°-40°	845.0	46.6
0°-60°	1452.1	80.1
0°-90°	1813.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1813.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	697	697	697	697	697	
5°	690	695	690	695	690	66
15°	658	660	658	660	658	185
25°	596	592	596	592	596	275
35°	515	508	515	508	515	322
45°	423	413	423	413	423	326
55°	322	315	322	315	322	288
65°	220	213	220	213	220	216
75°	112	109	112	109	112	119
85°	25	25	25	25	25	30
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°	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
2.5°	692.8	696.1	699.5	698.7	696.1	694.5	695.3	695.3	696.1	696.1	696.1
5°	690.2	693.6	696.1	695.3	692.8	691.9	691.9	691.9	693.6	695.3	693.6
7.5°	686.0	688.5	691.0	690.2	687.6	686.8	686.8	687.6	689.4	691.0	689.4
10°	678.3	681.7	684.2	682.6	680.0	678.3	678.3	678.3	680.0	681.7	680.0
12.5°	668.9	671.5	674.0	673.2	670.7	668.9	668.9	668.9	670.7	672.3	670.7
15°	657.8	660.4	662.9	662.1	659.6	657.8	657.8	657.8	659.6	660.4	659.6
17.5°	645.1	647.6	650.2	648.5	645.1	643.4	643.4	643.4	645.1	646.0	645.1
20°	630.6	633.1	634.9	633.1	629.7	628.1	627.2	627.2	628.9	629.7	628.9
22.5°	614.4	616.2	617.8	616.2	612.8	611.0	610.2	609.3	610.2	611.0	610.2
25°	596.5	598.3	599.9	598.3	594.9	592.3	591.5	590.6	591.5	591.5	591.5
27.5°	578.7	579.6	581.2	578.7	575.3	572.7	571.9	571.1	571.9	571.9	571.9
30°	558.3	559.1	560.9	558.3	554.0	551.4	550.6	549.8	549.8	549.8	549.8
32.5°	537.0	538.7	540.4	537.0	532.7	530.2	529.3	528.5	529.3	529.3	529.3
35°	514.8	515.8	517.4	514.8	510.6	508.1	506.4	505.5	507.2	508.1	507.2
37.5°	493.6	494.5	495.3	492.7	488.5	486.0	484.2	483.4	482.6	482.6	482.6
40°	469.8	470.6	472.3	469.8	465.5	462.9	461.3	460.4	460.4	460.4	460.4
42.5°	446.8	447.6	448.5	446.0	441.7	439.1	437.4	436.6	437.4	437.4	437.4
45°	422.9	422.9	423.8	421.3	417.9	415.3	413.6	412.8	412.8	412.8	412.8
47.5°	398.3	399.1	400.0	397.5	394.1	391.5	389.8	388.1	388.1	388.1	388.1
50°	373.6	373.6	374.4	371.9	368.5	365.9	365.1	364.3	363.4	363.4	363.4
52.5°	348.1	348.9	349.8	347.2	344.6	342.2	340.4	339.6	339.6	339.6	339.6
55°	322.5	322.5	323.4	321.7	319.1	316.6	314.9	314.0	314.9	314.9	314.9
57.5°	297.0	297.9	298.7	296.1	293.6	291.1	290.2	289.3	289.3	289.3	289.3
60°	271.4	271.4	272.4	270.6	268.1	265.5	264.7	263.8	263.8	263.8	263.8
62.5°	246.0	246.0	246.8	245.1	242.6	240.0	239.2	238.3	238.3	238.3	238.3
65°	219.5	219.5	219.5	217.9	216.2	215.3	214.5	213.6	212.8	212.8	212.8
67.5°	190.7	190.7	191.5	189.7	188.1	187.3	186.3	185.5	184.7	184.7	184.7
70°	164.2	164.2	165.1	164.2	162.5	161.7	160.9	160.0	159.1	159.1	159.1
72.5°	138.8	138.8	138.8	137.8	137.0	136.2	135.3	134.4	133.6	133.6	133.6
75°	112.3	112.3	113.2	112.3	111.5	110.6	109.8	109.8	108.9	108.9	108.9
77.5°	87.7	88.5	89.3	88.5	87.7	86.8	85.9	85.9	85.1	85.1	85.1
80°	64.7	65.6	66.4	65.6	64.7	63.8	63.0	63.0	63.0	63.0	63.0
82.5°	43.4	44.3	45.1	44.3	43.4	43.4	42.6	42.6	42.6	42.6	42.6
85°	24.7	25.5	26.4	26.4	25.5	25.5	24.7	24.7	24.7	24.7	24.7
87.5°	9.4	10.2	11.1	11.1	10.2	10.2	10.2	10.2	10.2	10.2	10.2
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°	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
2.5°	695.3	695.3	694.5	696.1	698.7	699.5	696.1	692.8	696.1	699.5	698.7
5°	691.9	691.9	691.9	692.8	695.3	696.1	693.6	690.2	693.6	696.1	695.3
7.5°	687.6	686.8	686.8	687.6	690.2	691.0	688.5	686.0	688.5	691.0	690.2
10°	678.3	678.3	678.3	680.0	682.6	684.2	681.7	678.3	681.7	684.2	682.6
12.5°	668.9	668.9	668.9	670.7	673.2	674.0	671.5	668.9	671.5	674.0	673.2
15°	657.8	657.8	657.8	659.6	662.1	662.9	660.4	657.8	660.4	662.9	662.1
17.5°	643.4	643.4	643.4	645.1	648.5	650.2	647.6	645.1	647.6	650.2	648.5
20°	627.2	627.2	628.1	629.7	633.1	634.9	633.1	630.6	633.1	634.9	633.1
22.5°	609.3	610.2	611.0	612.8	616.2	617.8	616.2	614.4	616.2	617.8	616.2
25°	590.6	591.5	592.3	594.9	598.3	599.9	598.3	596.5	598.3	599.9	598.3
27.5°	571.1	571.9	572.7	575.3	578.7	581.2	579.6	578.7	579.6	581.2	578.7
30°	549.8	550.6	551.4	554.0	558.3	560.9	559.1	558.3	559.1	560.9	558.3
32.5°	528.5	529.3	530.2	532.7	537.0	540.4	538.7	537.0	538.7	540.4	537.0
35°	505.5	506.4	508.1	510.6	514.8	517.4	515.8	514.8	515.8	517.4	514.8
37.5°	483.4	484.2	486.0	488.5	492.7	495.3	494.5	493.6	494.5	495.3	492.7
40°	460.4	461.3	462.9	465.5	469.8	472.3	470.6	469.8	470.6	472.3	469.8
42.5°	436.6	437.4	439.1	441.7	446.0	448.5	447.6	446.8	447.6	448.5	446.0
45°	412.8	413.6	415.3	417.9	421.3	423.8	422.9	422.9	422.9	423.8	421.3
47.5°	388.1	389.8	391.5	394.1	397.5	400.0	399.1	398.3	399.1	400.0	397.5
50°	364.3	365.1	365.9	368.5	371.9	374.4	373.6	373.6	373.6	374.4	371.9
52.5°	339.6	340.4	342.2	344.6	347.2	349.8	348.9	348.1	348.9	349.8	347.2
55°	314.0	314.9	316.6	319.1	321.7	323.4	322.5	322.5	322.5	323.4	321.7
57.5°	289.3	290.2	291.1	293.6	296.1	298.7	297.9	297.0	297.9	298.7	296.1
60°	263.8	264.7	265.5	268.1	270.6	272.4	271.4	271.4	271.4	272.4	270.6
62.5°	238.3	239.2	240.0	242.6	245.1	246.8	246.0	246.0	246.0	246.8	245.1
65°	213.6	214.5	215.3	216.2	217.9	219.5	219.5	219.5	219.5	219.5	217.9
67.5°	185.5	186.3	187.3	188.1	189.7	191.5	190.7	190.7	190.7	191.5	189.7
70°	160.0	160.9	161.7	162.5	164.2	165.1	164.2	164.2	164.2	165.1	164.2
72.5°	134.4	135.3	136.2	137.0	137.8	138.8	138.8	138.8	138.8	138.8	137.8
75°	109.8	109.8	110.6	111.5	112.3	113.2	112.3	112.3	112.3	113.2	112.3
77.5°	85.9	85.9	86.8	87.7	88.5	89.3	88.5	87.7	88.5	89.3	88.5
80°	63.0	63.0	63.8	64.7	65.6	66.4	65.6	64.7	65.6	66.4	65.6
82.5°	42.6	42.6	43.4	43.4	44.3	45.1	44.3	43.4	44.3	45.1	44.3
85°	24.7	24.7	25.5	25.5	26.4	26.4	25.5	24.7	25.5	26.4	26.4
87.5°	10.2	10.2	10.2	10.2	11.1	11.1	10.2	9.4	10.2	11.1	11.1
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°	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
2.5°	696.1	694.5	695.3	695.3	696.1	696.1	696.1	695.3	695.3	694.5	696.1
5°	692.8	691.9	691.9	691.9	693.6	695.3	693.6	691.9	691.9	691.9	692.8
7.5°	687.6	686.8	686.8	687.6	689.4	691.0	689.4	687.6	686.8	686.8	687.6
10°	680.0	678.3	678.3	678.3	680.0	681.7	680.0	678.3	678.3	678.3	680.0
12.5°	670.7	668.9	668.9	668.9	670.7	672.3	670.7	668.9	668.9	668.9	670.7
15°	659.6	657.8	657.8	657.8	659.6	660.4	659.6	657.8	657.8	657.8	659.6
17.5°	645.1	643.4	643.4	643.4	645.1	646.0	645.1	643.4	643.4	643.4	645.1
20°	629.7	628.1	627.2	627.2	628.9	629.7	628.9	627.2	627.2	628.1	629.7
22.5°	612.8	611.0	610.2	609.3	610.2	611.0	610.2	609.3	610.2	611.0	612.8
25°	594.9	592.3	591.5	590.6	591.5	591.5	591.5	590.6	591.5	592.3	594.9
27.5°	575.3	572.7	571.9	571.1	571.9	571.9	571.9	571.1	571.9	572.7	575.3
30°	554.0	551.4	550.6	549.8	549.8	549.8	549.8	549.8	550.6	551.4	554.0
32.5°	532.7	530.2	529.3	528.5	529.3	529.3	529.3	528.5	529.3	530.2	532.7
35°	510.6	508.1	506.4	505.5	507.2	508.1	507.2	505.5	506.4	508.1	510.6
37.5°	488.5	486.0	484.2	483.4	482.6	482.6	482.6	483.4	484.2	486.0	488.5
40°	465.5	462.9	461.3	460.4	460.4	460.4	460.4	460.4	461.3	462.9	465.5
42.5°	441.7	439.1	437.4	436.6	437.4	437.4	437.4	436.6	437.4	439.1	441.7
45°	417.9	415.3	413.6	412.8	412.8	412.8	412.8	412.8	413.6	415.3	417.9
47.5°	394.1	391.5	389.8	388.1	388.1	388.1	388.1	388.1	389.8	391.5	394.1
50°	368.5	365.9	365.1	364.3	363.4	363.4	363.4	364.3	365.1	365.9	368.5
52.5°	344.6	342.2	340.4	339.6	339.6	339.6	339.6	339.6	340.4	342.2	344.6
55°	319.1	316.6	314.9	314.0	314.9	314.9	314.9	314.0	314.9	316.6	319.1
57.5°	293.6	291.1	290.2	289.3	289.3	289.3	289.3	289.3	290.2	291.1	293.6
60°	268.1	265.5	264.7	263.8	263.8	263.8	263.8	263.8	264.7	265.5	268.1
62.5°	242.6	240.0	239.2	238.3	238.3	238.3	238.3	238.3	239.2	240.0	242.6
65°	216.2	215.3	214.5	213.6	212.8	212.8	212.8	213.6	214.5	215.3	216.2
67.5°	188.1	187.3	186.3	185.5	184.7	184.7	184.7	185.5	186.3	187.3	188.1
70°	162.5	161.7	160.9	160.0	159.1	159.1	159.1	160.0	160.9	161.7	162.5
72.5°	137.0	136.2	135.3	134.4	133.6	133.6	133.6	134.4	135.3	136.2	137.0
75°	111.5	110.6	109.8	109.8	108.9	108.9	108.9	109.8	109.8	110.6	111.5
77.5°	87.7	86.8	85.9	85.9	85.1	85.1	85.1	85.9	85.9	86.8	87.7
80°	64.7	63.8	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.8	64.7
82.5°	43.4	43.4	42.6	42.6	42.6	42.6	42.6	42.6	42.6	43.4	43.4
85°	25.5	25.5	24.7	24.7	24.7	24.7	24.7	24.7	24.7	25.5	25.5
87.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
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):

	330°	340°	350°	360°
0°	697.0	697.0	697.0	697.0
2.5°	698.7	699.5	696.1	692.8
5°	695.3	696.1	693.6	690.2
7.5°	690.2	691.0	688.5	686.0
10°	682.6	684.2	681.7	678.3
12.5°	673.2	674.0	671.5	668.9
15°	662.1	662.9	660.4	657.8
17.5°	648.5	650.2	647.6	645.1
20°	633.1	634.9	633.1	630.6
22.5°	616.2	617.8	616.2	614.4
25°	598.3	599.9	598.3	596.5
27.5°	578.7	581.2	579.6	578.7
30°	558.3	560.9	559.1	558.3
32.5°	537.0	540.4	538.7	537.0
35°	514.8	517.4	515.8	514.8
37.5°	492.7	495.3	494.5	493.6
40°	469.8	472.3	470.6	469.8
42.5°	446.0	448.5	447.6	446.8
45°	421.3	423.8	422.9	422.9
47.5°	397.5	400.0	399.1	398.3
50°	371.9	374.4	373.6	373.6
52.5°	347.2	349.8	348.9	348.1
55°	321.7	323.4	322.5	322.5
57.5°	296.1	298.7	297.9	297.0
60°	270.6	272.4	271.4	271.4
62.5°	245.1	246.8	246.0	246.0
65°	217.9	219.5	219.5	219.5
67.5°	189.7	191.5	190.7	190.7
70°	164.2	165.1	164.2	164.2
72.5°	137.8	138.8	138.8	138.8
75°	112.3	113.2	112.3	112.3
77.5°	88.5	89.3	88.5	87.7
80°	65.6	66.4	65.6	64.7
82.5°	44.3	45.1	44.3	43.4
85°	26.4	26.4	25.5	24.7
87.5°	11.1	11.1	10.2	9.4
90°	0.0	0.0	0.0	0.0

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