

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-26L850-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-26L850-UNV-NP
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture EXAM Light w/ Nature Pattern Lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

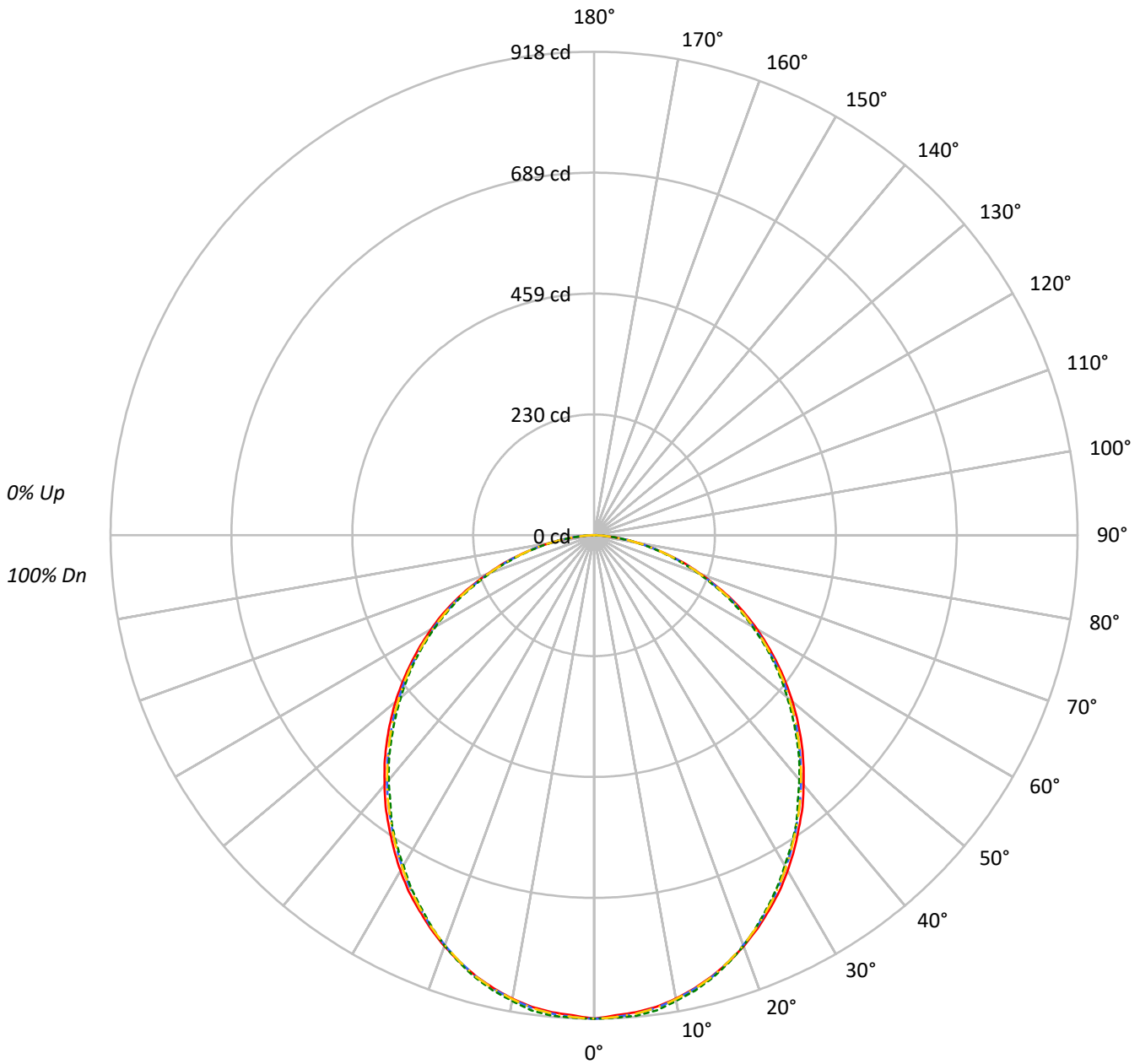
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2388.6 lumens
Efficiency: N/A
Efficacy: 84.7 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): 28.2
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

TEST NUMBER: P
CATALOG NUMBER: 4APN-X-26L850-UNV-NP

Luminous Intensity Polar Plot



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



TEST NUMBER: P
 CATALOG NUMBER: 4APN-X-26L850-UNV-NP

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°	8470	8470	8470	8470
5°	8420	8482	8420	8482
10°	8370	8411	8370	8411
15°	8277	8308	8277	8308
20°	8155	8144	8155	8144
25°	7999	7931	7999	7931
30°	7835	7714	7835	7714
35°	7638	7537	7638	7537
40°	7453	7303	7453	7303
45°	7269	7094	7269	7094
50°	7063	6870	7063	6870
55°	6835	6671	6835	6671
60°	6599	6412	6599	6412
65°	6314	6117	6314	6117
70°	5835	5657	5835	5657
75°	5276	5115	5276	5115
80°	4527	4410	4527	4410
85°	3440	3440	3440	3440



TEST NUMBER: P
 CATALOG NUMBER: 4APN-X-26L850-UNV-NP

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	3.6
10°-20°	244.7	10.2
20°-30°	360.6	15.1
30°-40°	421.0	17.6
40°-50°	424.5	17.8
50°-60°	375.1	15.7
60°-70°	280.5	11.7
70°-80°	155.5	6.5
80°-90°	39.9	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°	692.0	29.0
0°-40°	1113.0	46.6
0°-60°	1912.6	80.1
0°-90°	2388.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2388.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	918	918	918	918	918	
5°	909	916	909	916	909	86
15°	866	870	866	870	866	244
25°	786	779	786	779	786	362
35°	678	669	678	669	678	425
45°	557	544	557	544	557	430
55°	425	415	425	415	425	380
65°	289	280	289	280	289	285
75°	148	144	148	144	148	157
85°	32	32	32	32	32	39
90°	0	0	0	0	0	



TEST NUMBER: P

CATALOG NUMBER: 4APN-X-26L850-UNV-NP

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	918.0	918.0	918.0	918.0	918.0	918.0	918.0	918.0	918.0	918.0	918.0
2.5°	912.4	916.9	921.4	920.3	916.9	914.7	915.8	915.8	916.9	916.9	916.9
5°	909.1	913.6	916.9	915.8	912.4	911.3	911.3	911.3	913.6	915.8	913.6
7.5°	903.5	906.9	910.2	909.1	905.8	904.6	904.6	905.8	908.0	910.2	908.0
10°	893.4	897.8	901.3	899.0	895.6	893.4	893.4	893.4	895.6	897.8	895.6
12.5°	881.1	884.5	887.8	886.7	883.3	881.1	881.1	881.1	883.3	885.6	883.3
15°	866.5	869.8	873.2	872.1	868.7	866.5	866.5	866.5	868.7	869.8	868.7
17.5°	849.7	853.0	856.4	854.1	849.7	847.4	847.4	847.4	849.7	850.8	849.7
20°	830.6	833.9	836.3	833.9	829.5	827.2	826.1	826.1	828.4	829.5	828.4
22.5°	809.3	811.5	813.8	811.5	807.1	804.8	803.7	802.6	803.7	804.8	803.7
25°	785.8	788.0	790.2	788.0	783.5	780.2	779.1	778.0	779.1	779.1	779.1
27.5°	762.2	763.3	765.6	762.2	757.8	754.4	753.3	752.2	753.3	753.3	753.3
30°	735.4	736.5	738.7	735.4	729.8	726.4	725.2	724.1	724.1	724.1	724.1
32.5°	707.4	709.6	711.8	707.4	701.7	698.3	697.2	696.1	697.2	697.2	697.2
35°	678.1	679.3	681.5	678.1	672.6	669.2	667.0	665.9	668.1	669.2	668.1
37.5°	650.2	651.3	652.4	649.0	643.5	640.1	637.8	636.7	635.5	635.5	635.5
40°	618.8	619.9	622.2	618.8	613.1	609.8	607.6	606.4	606.4	606.4	606.4
42.5°	588.5	589.6	590.7	587.4	581.8	578.4	576.2	575.1	576.2	576.2	576.2
45°	557.1	557.1	558.3	554.9	550.4	547.0	544.8	543.7	543.7	543.7	543.7
47.5°	524.6	525.7	526.8	523.5	519.0	515.7	513.4	511.2	511.2	511.2	511.2
50°	492.1	492.1	493.2	489.9	485.3	482.0	480.9	479.8	478.6	478.6	478.6
52.5°	458.5	459.6	460.7	457.3	454.0	450.6	448.4	447.3	447.3	447.3	447.3
55°	424.9	424.9	426.0	423.8	420.3	417.0	414.7	413.6	414.7	414.7	414.7
57.5°	391.2	392.3	393.4	390.1	386.7	383.4	382.3	381.2	381.2	381.2	381.2
60°	357.6	357.6	358.8	356.4	353.1	349.7	348.6	347.5	347.5	347.5	347.5
62.5°	324.0	324.0	325.1	322.8	319.5	316.2	315.0	313.8	313.8	313.8	313.8
65°	289.2	289.2	289.2	286.9	284.7	283.6	282.5	281.4	280.2	280.2	280.2
67.5°	251.1	251.1	252.3	250.0	247.7	246.6	245.5	244.3	243.2	243.2	243.2
70°	216.3	216.3	217.5	216.3	214.1	213.0	211.9	210.8	209.7	209.7	209.7
72.5°	182.7	182.7	182.7	181.6	180.4	179.3	178.2	177.1	176.0	176.0	176.0
75°	148.0	148.0	149.1	148.0	146.9	145.8	144.6	144.6	143.5	143.5	143.5
77.5°	115.4	116.5	117.7	116.5	115.4	114.3	113.2	113.2	112.1	112.1	112.1
80°	85.2	86.3	87.4	86.3	85.2	84.1	83.0	83.0	83.0	83.0	83.0
82.5°	57.2	58.3	59.4	58.3	57.2	57.2	56.1	56.1	56.1	56.1	56.1
85°	32.5	33.7	34.8	34.8	33.7	33.7	32.5	32.5	32.5	32.5	32.5
87.5°	12.4	13.5	14.6	14.6	13.5	13.5	13.5	13.5	13.5	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P

CATALOG NUMBER: 4APN-X-26L850-UNV-NP

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	918.0	918.0	918.0	918.0	918.0	918.0	918.0	918.0	918.0	918.0	918.0
2.5°	915.8	915.8	914.7	916.9	920.3	921.4	916.9	912.4	916.9	921.4	920.3
5°	911.3	911.3	911.3	912.4	915.8	916.9	913.6	909.1	913.6	916.9	915.8
7.5°	905.8	904.6	904.6	905.8	909.1	910.2	906.9	903.5	906.9	910.2	909.1
10°	893.4	893.4	893.4	895.6	899.0	901.3	897.8	893.4	897.8	901.3	899.0
12.5°	881.1	881.1	881.1	883.3	886.7	887.8	884.5	881.1	884.5	887.8	886.7
15°	866.5	866.5	866.5	868.7	872.1	873.2	869.8	866.5	869.8	873.2	872.1
17.5°	847.4	847.4	847.4	849.7	854.1	856.4	853.0	849.7	853.0	856.4	854.1
20°	826.1	826.1	827.2	829.5	833.9	836.3	833.9	830.6	833.9	836.3	833.9
22.5°	802.6	803.7	804.8	807.1	811.5	813.8	811.5	809.3	811.5	813.8	811.5
25°	778.0	779.1	780.2	783.5	788.0	790.2	788.0	785.8	788.0	790.2	788.0
27.5°	752.2	753.3	754.4	757.8	762.2	765.6	763.3	762.2	763.3	765.6	762.2
30°	724.1	725.2	726.4	729.8	735.4	738.7	736.5	735.4	736.5	738.7	735.4
32.5°	696.1	697.2	698.3	701.7	707.4	711.8	709.6	707.4	709.6	711.8	707.4
35°	665.9	667.0	669.2	672.6	678.1	681.5	679.3	678.1	679.3	681.5	678.1
37.5°	636.7	637.8	640.1	643.5	649.0	652.4	651.3	650.2	651.3	652.4	649.0
40°	606.4	607.6	609.8	613.1	618.8	622.2	619.9	618.8	619.9	622.2	618.8
42.5°	575.1	576.2	578.4	581.8	587.4	590.7	589.6	588.5	589.6	590.7	587.4
45°	543.7	544.8	547.0	550.4	554.9	558.3	557.1	557.1	557.1	558.3	554.9
47.5°	511.2	513.4	515.7	519.0	523.5	526.8	525.7	524.6	525.7	526.8	523.5
50°	479.8	480.9	482.0	485.3	489.9	493.2	492.1	492.1	492.1	493.2	489.9
52.5°	447.3	448.4	450.6	454.0	457.3	460.7	459.6	458.5	459.6	460.7	457.3
55°	413.6	414.7	417.0	420.3	423.8	426.0	424.9	424.9	424.9	426.0	423.8
57.5°	381.2	382.3	383.4	386.7	390.1	393.4	392.3	391.2	392.3	393.4	390.1
60°	347.5	348.6	349.7	353.1	356.4	358.8	357.6	357.6	357.6	358.8	356.4
62.5°	313.8	315.0	316.2	319.5	322.8	325.1	324.0	324.0	324.0	325.1	322.8
65°	281.4	282.5	283.6	284.7	286.9	289.2	289.2	289.2	289.2	289.2	286.9
67.5°	244.3	245.5	246.6	247.7	250.0	252.3	251.1	251.1	251.1	252.3	250.0
70°	210.8	211.9	213.0	214.1	216.3	217.5	216.3	216.3	216.3	217.5	216.3
72.5°	177.1	178.2	179.3	180.4	181.6	182.7	182.7	182.7	182.7	182.7	181.6
75°	144.6	144.6	145.8	146.9	148.0	149.1	148.0	148.0	148.0	149.1	148.0
77.5°	113.2	113.2	114.3	115.4	116.5	117.7	116.5	115.4	116.5	117.7	116.5
80°	83.0	83.0	84.1	85.2	86.3	87.4	86.3	85.2	86.3	87.4	86.3
82.5°	56.1	56.1	57.2	57.2	58.3	59.4	58.3	57.2	58.3	59.4	58.3
85°	32.5	32.5	33.7	33.7	34.8	34.8	33.7	32.5	33.7	34.8	34.8
87.5°	13.5	13.5	13.5	13.5	14.6	14.6	13.5	12.4	13.5	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P

CATALOG NUMBER: 4APN-X-26L850-UNV-NP

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	918.0	918.0	918.0	918.0	918.0	918.0	918.0	918.0	918.0	918.0	918.0
2.5°	916.9	914.7	915.8	915.8	916.9	916.9	916.9	915.8	915.8	914.7	916.9
5°	912.4	911.3	911.3	911.3	913.6	915.8	913.6	911.3	911.3	911.3	912.4
7.5°	905.8	904.6	904.6	905.8	908.0	910.2	908.0	905.8	904.6	904.6	905.8
10°	895.6	893.4	893.4	893.4	895.6	897.8	895.6	893.4	893.4	893.4	895.6
12.5°	883.3	881.1	881.1	881.1	883.3	885.6	883.3	881.1	881.1	881.1	883.3
15°	868.7	866.5	866.5	866.5	868.7	869.8	868.7	866.5	866.5	866.5	868.7
17.5°	849.7	847.4	847.4	847.4	849.7	850.8	849.7	847.4	847.4	847.4	849.7
20°	829.5	827.2	826.1	826.1	828.4	829.5	828.4	826.1	826.1	827.2	829.5
22.5°	807.1	804.8	803.7	802.6	803.7	804.8	803.7	802.6	803.7	804.8	807.1
25°	783.5	780.2	779.1	778.0	779.1	779.1	779.1	778.0	779.1	780.2	783.5
27.5°	757.8	754.4	753.3	752.2	753.3	753.3	753.3	752.2	753.3	754.4	757.8
30°	729.8	726.4	725.2	724.1	724.1	724.1	724.1	724.1	725.2	726.4	729.8
32.5°	701.7	698.3	697.2	696.1	697.2	697.2	697.2	696.1	697.2	698.3	701.7
35°	672.6	669.2	667.0	665.9	668.1	669.2	668.1	665.9	667.0	669.2	672.6
37.5°	643.5	640.1	637.8	636.7	635.5	635.5	635.5	636.7	637.8	640.1	643.5
40°	613.1	609.8	607.6	606.4	606.4	606.4	606.4	606.4	607.6	609.8	613.1
42.5°	581.8	578.4	576.2	575.1	576.2	576.2	576.2	575.1	576.2	578.4	581.8
45°	550.4	547.0	544.8	543.7	543.7	543.7	543.7	543.7	544.8	547.0	550.4
47.5°	519.0	515.7	513.4	511.2	511.2	511.2	511.2	511.2	513.4	515.7	519.0
50°	485.3	482.0	480.9	479.8	478.6	478.6	478.6	479.8	480.9	482.0	485.3
52.5°	454.0	450.6	448.4	447.3	447.3	447.3	447.3	447.3	448.4	450.6	454.0
55°	420.3	417.0	414.7	413.6	414.7	414.7	414.7	413.6	414.7	417.0	420.3
57.5°	386.7	383.4	382.3	381.2	381.2	381.2	381.2	381.2	382.3	383.4	386.7
60°	353.1	349.7	348.6	347.5	347.5	347.5	347.5	347.5	348.6	349.7	353.1
62.5°	319.5	316.2	315.0	313.8	313.8	313.8	313.8	313.8	315.0	316.2	319.5
65°	284.7	283.6	282.5	281.4	280.2	280.2	280.2	281.4	282.5	283.6	284.7
67.5°	247.7	246.6	245.5	244.3	243.2	243.2	243.2	244.3	245.5	246.6	247.7
70°	214.1	213.0	211.9	210.8	209.7	209.7	209.7	210.8	211.9	213.0	214.1
72.5°	180.4	179.3	178.2	177.1	176.0	176.0	176.0	177.1	178.2	179.3	180.4
75°	146.9	145.8	144.6	144.6	143.5	143.5	143.5	144.6	144.6	145.8	146.9
77.5°	115.4	114.3	113.2	113.2	112.1	112.1	112.1	113.2	113.2	114.3	115.4
80°	85.2	84.1	83.0	83.0	83.0	83.0	83.0	83.0	83.0	84.1	85.2
82.5°	57.2	57.2	56.1	56.1	56.1	56.1	56.1	56.1	56.1	57.2	57.2
85°	33.7	33.7	32.5	32.5	32.5	32.5	32.5	32.5	32.5	33.7	33.7
87.5°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P
 CATALOG NUMBER: 4APN-X-26L850-UNV-NP

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	918.0	918.0	918.0	918.0
2.5°	920.3	921.4	916.9	912.4
5°	915.8	916.9	913.6	909.1
7.5°	909.1	910.2	906.9	903.5
10°	899.0	901.3	897.8	893.4
12.5°	886.7	887.8	884.5	881.1
15°	872.1	873.2	869.8	866.5
17.5°	854.1	856.4	853.0	849.7
20°	833.9	836.3	833.9	830.6
22.5°	811.5	813.8	811.5	809.3
25°	788.0	790.2	788.0	785.8
27.5°	762.2	765.6	763.3	762.2
30°	735.4	738.7	736.5	735.4
32.5°	707.4	711.8	709.6	707.4
35°	678.1	681.5	679.3	678.1
37.5°	649.0	652.4	651.3	650.2
40°	618.8	622.2	619.9	618.8
42.5°	587.4	590.7	589.6	588.5
45°	554.9	558.3	557.1	557.1
47.5°	523.5	526.8	525.7	524.6
50°	489.9	493.2	492.1	492.1
52.5°	457.3	460.7	459.6	458.5
55°	423.8	426.0	424.9	424.9
57.5°	390.1	393.4	392.3	391.2
60°	356.4	358.8	357.6	357.6
62.5°	322.8	325.1	324.0	324.0
65°	286.9	289.2	289.2	289.2
67.5°	250.0	252.3	251.1	251.1
70°	216.3	217.5	216.3	216.3
72.5°	181.6	182.7	182.7	182.7
75°	148.0	149.1	148.0	148.0
77.5°	116.5	117.7	116.5	115.4
80°	86.3	87.4	86.3	85.2
82.5°	58.3	59.4	58.3	57.2
85°	34.8	34.8	33.7	32.5
87.5°	14.6	14.6	13.5	12.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)