

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: AMETRIX

Report Number: P508363

Luminaire Tested: **ASYX-X-L4-X-U-F-L27-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-840-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: AMETRIX
Catalog Number: ASYX-X-L4-X-U-F-L27-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(4) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

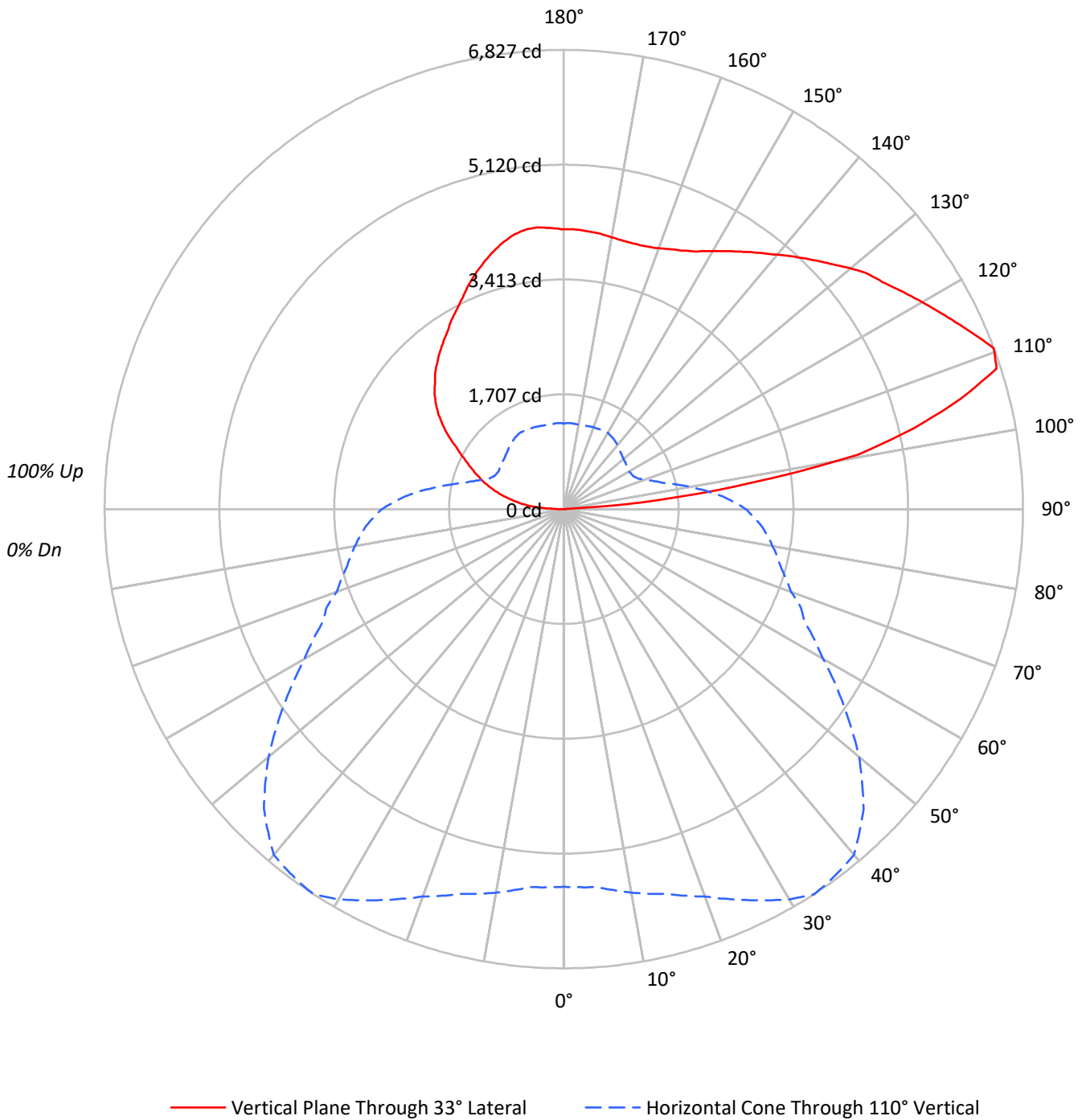
Lumens per Lamp: N/A
Luminaire Lumens: 19755.1 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
N/A
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Indirect

Input Watts (W): 214.8
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: 24 FT



TEST NUMBER: P508363
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Luminous Intensity Polar Plot





TEST NUMBER: P508363

CATALOG NUMBER: ASYX-X-L4-X-U-F-L27-1-UNV-X-X-X-STD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20								20				20				20				
RC	80								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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	8	8	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	7	7	7	0
3	72	63	57	51	61	54	49	44	37	34	31	21	20	18	7	6	6	6	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	5	5	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	4	4	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	4	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	3	3	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	3	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	3	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	2	2	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
95°	72002	27627	60281
100°	182806	58832	49590
105°	177629	65132	42291
110°	176663	85131	40111
115°	154022	96522	36778
120°	127996	94867	35465
125°	109032	88421	36133
130°	93205	81057	38145
135°	80186	74511	38597
140°	69921	68778	38485
145°	61468	63428	38752
150°	53929	59237	38761
155°	49519	55557	39293
160°	45818	51797	40615
165°	44271	49031	42609
170°	44089	46831	44385
175°	45124	45343	44758



TEST NUMBER: P508363

CATALOG NUMBER: ASYX-X-L4-X-U-F-L27-1-UNV-X-X-X-STD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	717.1	3.6
100°-110°	2644.8	13.4
110°-120°	3588.6	18.2
120°-130°	3572.7	18.1
130°-140°	3180.6	16.1
140°-150°	2584.5	13.1
150°-160°	1897.8	9.6
160°-170°	1171.1	5.9
170°-180°	397.9	2.0
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.0	0.0
90°-120°	6950.5	35.2
90°-150°	16288.4	82.5
90°-180°	19755.0	100.0
0°-180°	19755.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	583	861	224	339	488	966
105°	4271	5735	1566	922	1017	4546
115°	6047	6224	3790	1471	1444	5913
125°	5810	5810	4712	2088	1925	5193
135°	5268	5288	4895	2637	2536	4104
145°	4678	4691	4827	3125	2949	2942
155°	4169	4312	4678	3668	3308	1924
165°	3973	4115	4400	4074	3824	1135
175°	4176	4136	4196	4196	4142	392
180°	4163	4163	4163	4163	4163	



TEST NUMBER: P508363

CATALOG NUMBER: ASYX-X-L4-X-U-F-L27-1-UNV-X-X-X-STD

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	33°	35°	40°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	33.9	33.9	33.9	40.7	47.5	47.5	61.0	67.8	61.0	88.1	101.7
95°	583.0	671.2	962.7	1145.7	1132.2	1071.2	1139.0	1335.6	1437.2	1308.4	1111.8
97.5°	1464.4	1518.6	2122.0	2406.7	2657.6	2779.6	2888.1	2799.9	2847.4	2820.3	2569.4
100°	2949.1	3125.3	3335.5	3627.0	3986.3	4243.9	4440.5	4596.5	4447.3	4210.0	3518.5
102.5°	3776.2	3837.2	3979.5	4128.7	4515.1	4704.9	4901.6	5240.5	5342.2	5294.8	4921.9
105°	4271.1	4305.0	4440.5	4664.3	4962.6	5172.7	5416.8	5857.5	6115.1	6142.2	6169.3
107.5°	4894.8	4969.3	5132.1	5274.4	5627.0	5871.0	6088.0	6542.2	6765.9	6779.5	6684.6
110°	5613.4	5640.5	5789.7	5925.3	6128.6	6271.0	6413.4	6698.1	6826.9	6806.6	6711.7
112.5°	5999.8	6033.7	6088.0	6135.4	6230.3	6291.3	6379.5	6562.5	6637.1	6657.4	6562.5
115°	6047.3	6047.3	6088.0	6094.7	6203.2	6203.2	6243.9	6420.2	6454.1	6481.2	6426.9
117.5°	6006.6	6020.2	6047.3	6033.7	6081.2	6149.0	6135.4	6243.9	6284.6	6264.2	6284.6
120°	5945.6	5932.0	5986.3	5959.2	5993.0	6033.7	6006.6	6088.0	6121.9	6108.3	6176.1
122.5°	5884.6	5884.6	5904.9	5898.1	5884.6	5871.0	5877.8	5932.0	5965.9	5959.2	5999.8
125°	5810.0	5803.2	5796.4	5769.3	5803.2	5782.9	5749.0	5789.7	5816.8	5803.2	5843.9
127.5°	5688.0	5694.8	5681.2	5667.6	5627.0	5620.2	5654.1	5633.7	5701.5	5660.9	5701.5
130°	5565.9	5565.9	5552.4	5525.3	5511.7	5484.6	5477.8	5491.4	5532.0	5545.6	5484.6
132.5°	5471.0	5423.6	5389.7	5369.3	5369.3	5342.2	5328.7	5342.2	5362.6	5396.5	5403.2
135°	5267.6	5240.5	5240.5	5213.4	5254.1	5193.1	5179.5	5199.8	5206.6	5206.6	5247.3
137.5°	5152.4	5084.6	5057.5	5050.7	5043.9	5023.6	5023.6	5050.7	5057.5	5050.7	5084.6
140°	4976.1	4901.6	4928.7	4894.8	4901.6	4867.7	4881.2	4881.2	4908.3	4908.3	4942.2
142.5°	4874.4	4766.0	4752.4	4732.1	4738.8	4725.3	4793.1	4745.6	4772.7	4820.2	4799.9
145°	4677.8	4589.7	4610.0	4589.7	4596.5	4582.9	4616.8	4610.0	4643.9	4637.2	4671.1
147.5°	4467.7	4460.9	4467.7	4454.1	4467.7	4454.1	4494.8	4488.0	4521.9	4542.2	4549.0
150°	4338.9	4311.7	4318.5	4332.1	4318.5	4345.6	4345.6	4372.8	4406.7	4413.4	4440.5
152.5°	4203.3	4196.5	4230.4	4210.0	4223.6	4223.6	4243.9	4250.7	4298.2	4305.0	4372.8
155°	4169.4	4108.4	4108.4	4101.6	4135.5	4135.5	4162.6	4203.3	4223.6	4257.5	4264.3
157.5°	4047.3	4040.6	4040.6	4067.7	4033.8	4074.5	4135.5	4115.1	4169.4	4176.2	4203.3
160°	3999.9	3979.5	3993.1	4006.7	4006.7	4040.6	4088.0	4081.2	4115.1	4155.8	4162.6
162.5°	4027.0	3959.2	3966.0	3999.9	3986.3	4033.8	4040.6	4054.1	4088.0	4101.6	4142.3
165°	3972.8	3952.4	3938.9	3952.4	3993.1	4013.4	4033.8	4047.3	4081.2	4088.0	4108.4
167.5°	3993.1	3986.3	3986.3	3999.9	4027.0	4027.0	4060.9	4054.1	4088.0	4088.0	4101.6
170°	4033.8	4013.4	4027.0	4054.1	4006.7	4081.2	4074.5	4054.1	4108.4	4108.4	4128.7
172.5°	4088.0	4067.7	4074.5	4074.5	4074.5	4115.1	4121.9	4128.7	4135.5	4128.7	4128.7
175°	4176.2	4121.9	4115.1	4115.1	4128.7	4128.7	4142.3	4108.4	4149.0	4149.0	4142.3
177.5°	4155.8	4135.5	4169.4	4135.5	4121.9	4149.0	4169.4	4142.3	4162.6	4142.3	4162.6
180°	4162.6	4162.6	4162.6	4162.6	4162.6	4162.6	4162.6	4162.6	4162.6	4162.6	4162.6



TEST NUMBER: P508363

CATALOG NUMBER: ASYX-X-L4-X-U-F-L27-1-UNV-X-X-X-STD

CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	88.1	88.1	88.1	81.4	74.6	74.6	74.6	74.6	67.8	61.0	61.0
95°	861.0	684.7	623.7	515.2	433.9	400.0	345.8	345.8	257.6	210.2	223.7
97.5°	2162.6	1681.3	1335.6	1010.1	962.7	901.7	894.9	759.3	671.2	610.2	528.8
100°	2806.7	2305.0	1999.9	1830.5	1606.7	1505.0	1430.5	1288.1	1200.0	1077.9	949.1
102.5°	4169.4	3464.3	2867.7	2366.0	2027.1	1884.7	1789.8	1640.6	1532.2	1410.1	1247.4
105°	5735.4	4745.6	3749.0	2996.5	2542.3	2359.3	2196.5	2047.4	1905.0	1715.2	1566.1
107.5°	6155.8	5437.1	4684.6	3844.0	3213.5	3030.4	2840.6	2589.8	2399.9	2237.2	1979.6
110°	6304.9	5728.6	5077.8	4454.1	3945.6	3816.8	3593.1	3342.3	3152.5	2955.8	2705.0
112.5°	6243.9	5884.6	5362.6	4806.6	4393.1	4264.3	4101.6	3945.6	3844.0	3694.8	3362.6
115°	6223.5	5932.0	5565.9	5071.0	4698.2	4555.8	4427.0	4284.6	4257.5	4155.8	3789.7
117.5°	6135.4	5938.8	5660.9	5260.9	4928.7	4833.8	4704.9	4589.7	4576.1	4474.4	4155.8
120°	6074.4	5911.7	5674.4	5410.0	5125.3	5023.6	4915.1	4827.0	4786.3	4711.7	4406.7
122.5°	5932.0	5871.0	5688.0	5464.2	5206.6	5159.2	5057.5	4908.3	4976.1	4894.8	4603.3
125°	5810.0	5776.1	5728.6	5457.5	5274.4	5213.4	5138.8	5050.7	5071.0	5016.8	4711.7
127.5°	5681.2	5674.4	5640.5	5477.8	5308.3	5281.2	5193.1	5125.3	5111.7	5057.5	4786.3
130°	5579.5	5572.7	5525.3	5416.8	5308.3	5301.5	5213.4	5159.2	5152.4	5104.9	4840.5
132.5°	5430.4	5430.4	5457.5	5349.0	5281.2	5260.9	5220.2	5152.4	5172.7	5071.0	4867.7
135°	5288.0	5294.8	5315.1	5260.9	5301.5	5227.0	5186.3	5098.2	5138.8	5098.2	4894.8
137.5°	5125.3	5145.6	5186.3	5166.0	5186.3	5193.1	5138.8	5118.5	5118.5	5077.8	4888.0
140°	4928.7	5010.0	5084.6	5077.8	5118.5	5111.7	5091.4	4996.5	5084.6	5057.5	4894.8
142.5°	4840.5	4888.0	4976.1	4955.8	5043.9	5043.9	5030.4	5023.6	5043.9	4996.5	4867.7
145°	4691.4	4766.0	4833.8	4874.4	4928.7	4982.9	4962.6	4976.1	4982.9	4982.9	4827.0
147.5°	4596.5	4677.8	4766.0	4779.5	4874.4	4888.0	4894.8	4915.1	4955.8	4901.6	4840.5
150°	4494.8	4549.0	4650.7	4691.4	4793.1	4813.4	4806.6	4833.8	4901.6	4860.9	4766.0
152.5°	4338.9	4454.1	4542.2	4603.3	4677.8	4725.3	4732.1	4732.1	4793.1	4793.1	4738.8
155°	4311.7	4372.8	4454.1	4515.1	4596.5	4643.9	4650.7	4650.7	4711.7	4691.4	4677.8
157.5°	4250.7	4332.1	4399.9	4420.2	4521.9	4562.6	4562.6	4576.1	4630.4	4643.9	4596.5
160°	4210.0	4250.7	4332.1	4393.1	4447.3	4494.8	4501.6	4515.1	4549.0	4542.2	4521.9
162.5°	4149.0	4210.0	4284.6	4318.5	4379.5	4427.0	4420.2	4420.2	4481.2	4494.8	4467.7
165°	4115.1	4182.9	4271.1	4291.4	4332.1	4359.2	4352.4	4372.8	4427.0	4413.4	4399.9
167.5°	4128.7	4162.6	4237.2	4230.4	4277.8	4298.2	4298.2	4284.6	4318.5	4271.1	4311.7
170°	4149.0	4149.0	4189.7	4203.3	4243.9	4264.3	4243.9	4243.9	4264.3	4277.8	4284.6
172.5°	4155.8	4149.0	4182.9	4176.2	4189.7	4223.6	4203.3	4176.2	4216.8	4243.9	4210.0
175°	4135.5	4142.3	4196.5	4182.9	4162.6	4196.5	4162.6	4155.8	4216.8	4210.0	4196.5
177.5°	4115.1	4115.1	4149.0	4121.9	4169.4	4169.4	4135.5	4135.5	4203.3	4155.8	4142.3
180°	4162.6	4162.6	4162.6	4162.6	4162.6	4162.6	4162.6	4162.6	4162.6	4162.6	4162.6



TEST NUMBER: P508363

CATALOG NUMBER: ASYX-X-L4-X-U-F-L27-1-UNV-X-X-X-STD

CANDELA DISTRIBUTION (continued):

	95°	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	67.8	74.6	81.4	94.9	101.7	108.5	122.0	135.6	155.9	155.9	183.0
95°	216.9	223.7	223.7	237.3	244.1	244.1	250.8	278.0	305.1	339.0	400.0
97.5°	461.0	406.8	393.2	393.2	400.0	400.0	406.8	420.3	440.7	481.3	542.4
100°	813.5	691.5	603.4	555.9	542.4	535.6	542.4	542.4	576.3	630.5	698.3
102.5°	1064.4	901.7	752.5	684.7	657.6	664.4	657.6	671.2	718.6	766.1	840.7
105°	1342.3	1132.2	942.3	840.7	800.0	793.2	793.2	806.8	861.0	922.0	976.2
107.5°	1722.0	1457.6	1179.6	1030.5	969.5	955.9	955.9	976.2	1010.1	1050.8	1111.8
110°	2332.1	1898.3	1511.8	1274.5	1193.2	1145.7	1118.6	1139.0	1159.3	1193.2	1240.6
112.5°	2901.6	2366.0	1857.6	1498.3	1389.8	1315.2	1274.5	1274.5	1301.7	1328.8	1362.7
115°	3294.8	2698.2	2149.1	1728.8	1572.8	1505.0	1416.9	1423.7	1444.0	1471.1	1491.5
117.5°	3647.4	3010.1	2393.2	1945.7	1769.4	1661.0	1572.8	1552.5	1593.2	1627.1	1640.6
120°	3898.2	3281.3	2637.2	2169.4	1966.0	1844.0	1722.0	1701.6	1742.3	1749.1	1816.9
122.5°	4108.4	3477.9	2847.4	2366.0	2149.1	2047.4	1898.3	1871.1	1898.3	1945.7	1999.9
125°	4243.9	3654.1	3037.2	2549.1	2345.7	2210.1	2054.2	2033.8	2054.2	2088.1	2149.1
127.5°	4352.4	3796.5	3220.2	2738.9	2501.6	2393.2	2237.2	2196.5	2223.7	2237.2	2305.0
130°	4433.8	3959.2	3389.7	2921.9	2711.8	2603.3	2393.2	2352.5	2366.0	2399.9	2433.8
132.5°	4515.1	4060.9	3559.2	3111.8	2908.4	2786.4	2583.0	2494.8	2501.6	2528.7	2562.6
135°	4569.4	4169.4	3735.5	3301.6	3077.9	2983.0	2766.0	2677.9	2644.0	2637.2	2677.9
137.5°	4623.6	4271.1	3871.1	3477.9	3288.0	3179.6	2921.9	2820.3	2786.4	2779.6	2793.1
140°	4671.1	4359.2	3993.1	3667.7	3477.9	3349.1	3111.8	2983.0	2928.7	2901.6	2915.2
142.5°	4691.4	4433.8	4121.9	3871.1	3640.6	3491.4	3294.8	3166.0	3050.8	3016.9	2989.7
145°	4704.9	4549.0	4243.9	3999.9	3823.6	3735.5	3498.2	3328.7	3193.1	3125.3	3111.8
147.5°	4704.9	4542.2	4325.3	4108.4	3959.2	3864.3	3606.7	3498.2	3389.7	3274.5	3220.2
150°	4691.4	4616.8	4386.3	4216.8	4060.9	3986.3	3803.3	3599.9	3484.6	3403.3	3342.3
152.5°	4657.5	4555.8	4420.2	4271.1	4155.8	4108.4	3898.2	3769.4	3647.4	3525.3	3477.9
155°	4623.6	4542.2	4440.5	4318.5	4223.6	4162.6	4013.4	3884.6	3796.5	3667.7	3620.2
157.5°	4582.9	4528.7	4440.5	4372.8	4264.3	4223.6	4074.5	3986.3	3911.8	3782.9	3721.9
160°	4521.9	4488.0	4433.8	4338.9	4291.4	4257.5	4135.5	4067.7	3993.1	3898.2	3850.7
162.5°	4460.9	4467.7	4399.9	4379.5	4305.0	4277.8	4196.5	4121.9	4047.3	3993.1	3952.4
165°	4413.4	4440.5	4372.8	4305.0	4305.0	4291.4	4203.3	4169.4	4135.5	4074.5	4027.0
167.5°	4325.3	4359.2	4359.2	4277.8	4271.1	4291.4	4237.2	4203.3	4176.2	4128.7	4101.6
170°	4311.7	4311.7	4264.3	4271.1	4291.4	4243.9	4210.0	4203.3	4203.3	4176.2	4155.8
172.5°	4230.4	4271.1	4250.7	4237.2	4216.8	4216.8	4196.5	4203.3	4189.7	4196.5	4189.7
175°	4203.3	4210.0	4216.8	4210.0	4189.7	4189.7	4182.9	4189.7	4196.5	4196.5	4182.9
177.5°	4162.6	4182.9	4216.8	4182.9	4196.5	4169.4	4162.6	4176.2	4176.2	4182.9	4169.4
180°	4162.6	4162.6	4162.6	4162.6	4162.6	4162.6	4162.6	4162.6	4162.6	4162.6	4162.6



TEST NUMBER: P508363

CATALOG NUMBER: ASYX-X-L4-X-U-F-L27-1-UNV-X-X-X-STD

CANDELA DISTRIBUTION (continued):

	145°	150°	155°	157.5°	160°	165°	170°	175°	180°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	203.4	216.9	223.7	230.5	237.3	216.9	216.9	196.6	183.0
95°	433.9	467.8	467.8	467.8	488.1	501.7	494.9	488.1	488.1
97.5°	589.8	644.0	684.7	691.5	691.5	691.5	698.3	698.3	684.7
100°	745.7	772.9	800.0	806.8	800.0	800.0	793.2	806.8	800.0
102.5°	894.9	922.0	928.8	935.6	928.8	922.0	908.4	922.0	894.9
105°	1023.7	1050.8	1044.0	1037.3	1030.5	1016.9	1003.4	1023.7	1016.9
107.5°	1166.1	1172.8	1179.6	1186.4	1159.3	1152.5	1152.5	1166.1	1159.3
110°	1281.3	1308.4	1301.7	1294.9	1294.9	1281.3	1274.5	1281.3	1274.5
112.5°	1403.3	1416.9	1410.1	1410.1	1403.3	1383.0	1362.7	1369.5	1362.7
115°	1532.2	1538.9	1532.2	1518.6	1505.0	1491.5	1464.4	1450.8	1444.0
117.5°	1667.7	1661.0	1647.4	1640.6	1627.1	1620.3	1579.6	1559.3	1552.5
120°	1823.7	1803.3	1776.2	1769.4	1749.1	1742.3	1688.1	1654.2	1647.4
122.5°	2013.5	1979.6	1925.4	1898.3	1891.5	1871.1	1803.3	1789.8	1769.4
125°	2176.2	2162.6	2128.8	2108.4	2081.3	2020.3	1945.7	1911.8	1925.4
127.5°	2332.1	2325.4	2311.8	2284.7	2250.8	2223.7	2162.6	2108.4	2094.9
130°	2460.9	2467.7	2447.4	2427.0	2406.7	2379.6	2311.8	2277.9	2277.9
132.5°	2583.0	2589.8	2603.3	2549.1	2535.5	2508.4	2447.4	2406.7	2420.3
135°	2677.9	2691.4	2671.1	2650.8	2637.2	2610.1	2549.1	2528.7	2535.5
137.5°	2806.7	2793.1	2772.8	2759.2	2725.3	2718.6	2671.1	2637.2	2623.7
140°	2888.1	2894.8	2894.8	2860.9	2827.0	2813.5	2766.0	2732.1	2738.9
142.5°	2996.5	2969.4	2983.0	2949.1	2928.7	2908.4	2847.4	2840.6	2840.6
145°	3077.9	3064.3	3057.5	3030.4	3023.6	2983.0	2962.6	2928.7	2949.1
147.5°	3166.0	3166.0	3166.0	3105.0	3091.4	3071.1	3050.8	3023.6	3044.0
150°	3294.8	3247.4	3233.8	3199.9	3172.8	3159.2	3111.8	3098.2	3118.6
152.5°	3396.5	3342.3	3301.6	3281.3	3274.5	3254.1	3227.0	3206.7	3206.7
155°	3518.5	3444.0	3444.0	3369.4	3349.1	3335.5	3308.4	3301.6	3308.4
157.5°	3647.4	3579.6	3545.7	3505.0	3471.1	3457.5	3423.6	3410.1	3423.6
160°	3742.3	3735.5	3660.9	3640.6	3606.7	3586.3	3579.6	3545.7	3545.7
162.5°	3891.4	3796.5	3782.9	3762.6	3735.5	3708.4	3694.8	3681.2	3694.8
165°	3972.8	3945.6	3911.8	3884.6	3864.3	3857.5	3816.8	3830.4	3823.6
167.5°	4067.7	4047.3	4013.4	3993.1	3999.9	3972.8	3972.8	3938.9	3945.6
170°	4135.5	4149.0	4108.4	4088.0	4074.5	4074.5	4047.3	4047.3	4060.9
172.5°	4182.9	4203.3	4169.4	4155.8	4142.3	4155.8	4128.7	4121.9	4135.5
175°	4196.5	4223.6	4196.5	4189.7	4176.2	4216.8	4169.4	4169.4	4142.3
177.5°	4182.9	4189.7	4216.8	4176.2	4176.2	4189.7	4196.5	4142.3	4176.2
180°	4162.6	4162.6	4162.6	4162.6	4162.6	4162.6	4162.6	4162.6	4162.6

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