

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: P508350

Luminaire Tested: **ASYX-X-L3-X-U-F-L40-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508350
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-L3-X-U-F-L40-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(3) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

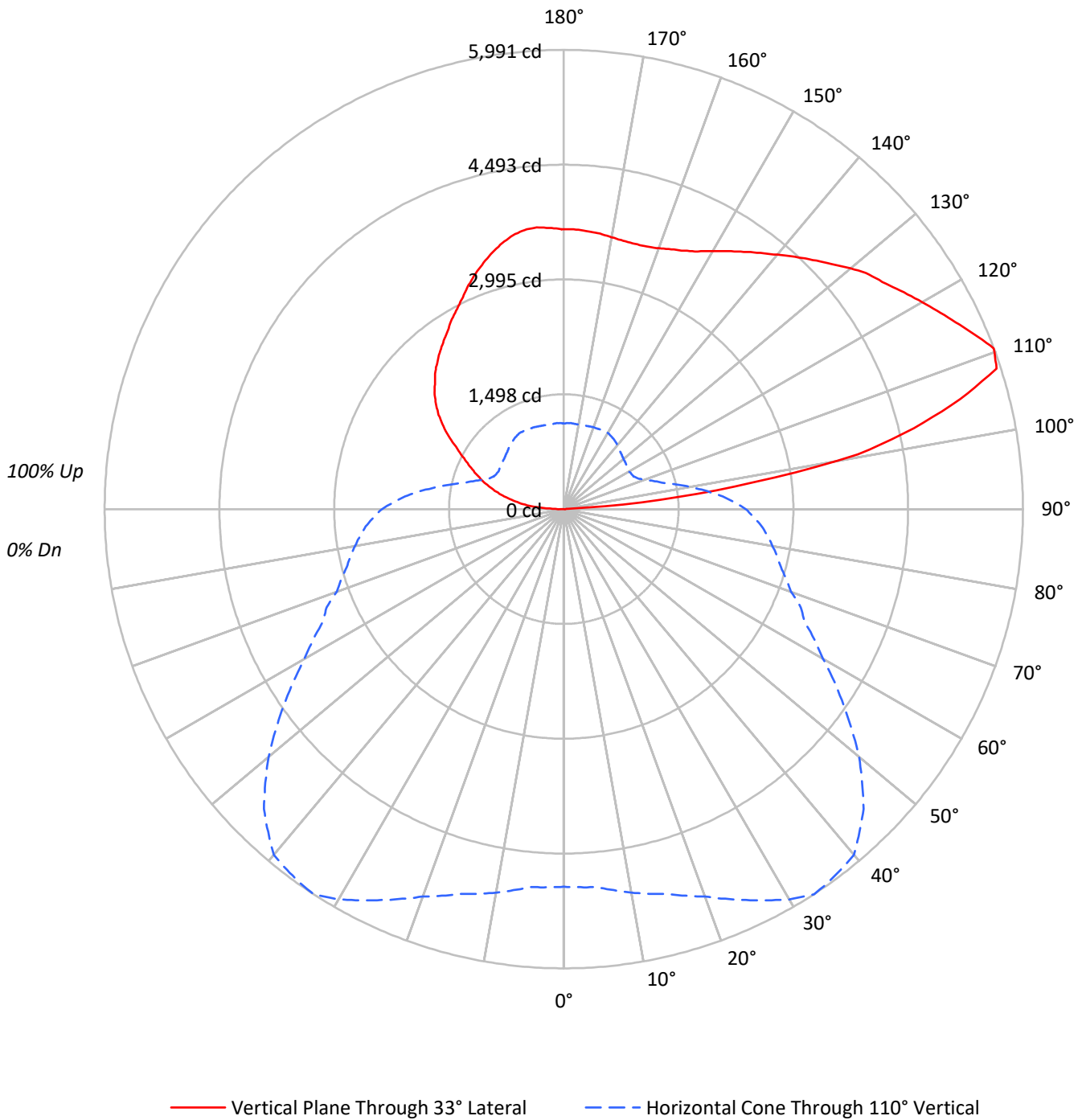
Lumens per Lamp: N/A
Luminaire Lumens: 17335.4 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
N/A
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Indirect

Input Watts (W): 165.2
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: 24 FT



TEST NUMBER: P508350
CATALOG NUMBER: ASYX-X-L3-X-U-F-L40-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot





TEST NUMBER: P508350

CATALOG NUMBER: ASYX-X-L3-X-U-F-L40-1-UNV-X-X-X-STD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
95°	63184	24243	52896
100°	160416	51629	43515
105°	155870	57151	37114
110°	155023	74704	35198
115°	135157	84699	32275
120°	112319	83246	31121
125°	95678	77591	31706
130°	81789	71131	33473
135°	70364	65384	33870
140°	61356	60353	33771
145°	53940	55660	34006
150°	47323	51981	34013
155°	43453	48753	34480
160°	40206	45452	35640
165°	38849	43026	37390
170°	38689	41094	38949
175°	39596	39790	39275



TEST NUMBER: P508350

CATALOG NUMBER: ASYX-X-L3-X-U-F-L40-1-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°	629.3	3.6
100°-110°	2320.9	13.4
110°-120°	3149.1	18.2
120°-130°	3135.1	18.1
130°-140°	2791.0	16.1
140°-150°	2268.0	13.1
150°-160°	1665.3	9.6
160°-170°	1027.7	5.9
170°-180°	349.1	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°	6099.2	35.2
90°-150°	14293.3	82.5
90°-180°	17335.0	100.0
0°-180°	17335.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	512	756	196	298	428	848
105°	3748	5033	1374	809	892	3989
115°	5307	5461	3326	1291	1267	5189
125°	5098	5098	4135	1832	1690	4557
135°	4622	4640	4295	2314	2225	3601
145°	4105	4117	4236	2742	2588	2582
155°	3659	3784	4105	3218	2903	1688
165°	3486	3611	3861	3575	3355	996
175°	3665	3629	3682	3682	3635	344
180°	3653	3653	3653	3653	3653	



TEST NUMBER: P508350

CATALOG NUMBER: ASYX-X-L3-X-U-F-L40-1-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°	29.7	29.7	29.7	35.7	41.6	41.6	53.5	59.5	53.5	77.3	89.2
95°	511.6	589.0	844.8	1005.4	993.5	940.0	999.4	1172.0	1261.2	1148.2	975.7
97.5°	1285.0	1332.6	1862.1	2111.9	2332.0	2439.1	2534.3	2457.0	2498.6	2474.8	2254.7
100°	2587.9	2742.5	2927.0	3182.8	3498.1	3724.1	3896.7	4033.5	3902.6	3694.4	3087.6
102.5°	3313.6	3367.2	3492.1	3623.0	3962.1	4128.7	4301.2	4598.6	4687.9	4646.2	4319.0
105°	3747.9	3777.7	3896.7	4093.0	4354.7	4539.2	4753.3	5140.0	5366.1	5389.9	5413.7
107.5°	4295.2	4360.7	4503.5	4628.4	4937.7	5151.9	5342.3	5740.9	5937.2	5949.1	5865.8
110°	4925.8	4949.6	5080.5	5199.5	5378.0	5502.9	5627.8	5877.7	5990.7	5972.9	5889.6
112.5°	5264.9	5294.7	5342.3	5383.9	5467.2	5520.8	5598.1	5758.7	5824.2	5842.0	5758.7
115°	5306.6	5306.6	5342.3	5348.2	5443.4	5443.4	5479.1	5633.8	5663.5	5687.3	5639.7
117.5°	5270.9	5282.8	5306.6	5294.7	5336.3	5395.8	5383.9	5479.1	5514.8	5497.0	5514.8
120°	5217.4	5205.5	5253.0	5229.3	5259.0	5294.7	5270.9	5342.3	5372.0	5360.1	5419.6
122.5°	5163.8	5163.8	5181.7	5175.7	5163.8	5151.9	5157.9	5205.5	5235.2	5229.3	5264.9
125°	5098.4	5092.4	5086.5	5062.7	5092.4	5074.6	5044.8	5080.5	5104.3	5092.4	5128.1
127.5°	4991.3	4997.2	4985.3	4973.4	4937.7	4931.8	4961.5	4943.7	5003.2	4967.5	5003.2
130°	4884.2	4884.2	4872.3	4848.5	4836.6	4812.8	4806.9	4818.8	4854.5	4866.4	4812.8
132.5°	4800.9	4759.3	4729.5	4711.7	4711.7	4687.9	4676.0	4687.9	4705.7	4735.5	4741.4
135°	4622.4	4598.6	4598.6	4574.9	4610.5	4557.0	4545.1	4563.0	4568.9	4568.9	4604.6
137.5°	4521.3	4461.8	4438.0	4432.1	4426.1	4408.3	4408.3	4432.1	4438.0	4432.1	4461.8
140°	4366.6	4301.2	4325.0	4295.2	4301.2	4271.4	4283.3	4283.3	4307.1	4307.1	4336.9
142.5°	4277.4	4182.2	4170.3	4152.5	4158.4	4146.5	4206.0	4164.4	4188.2	4229.8	4212.0
145°	4104.9	4027.5	4045.4	4027.5	4033.5	4021.6	4051.3	4045.4	4075.1	4069.2	4098.9
147.5°	3920.5	3914.5	3920.5	3908.6	3920.5	3908.6	3944.2	3938.3	3968.0	3985.9	3991.8
150°	3807.4	3783.6	3789.6	3801.5	3789.6	3813.4	3813.4	3837.2	3866.9	3872.9	3896.7
152.5°	3688.4	3682.5	3712.2	3694.4	3706.3	3706.3	3724.1	3730.1	3771.7	3777.7	3837.2
155°	3658.7	3605.1	3605.1	3599.2	3628.9	3628.9	3652.7	3688.4	3706.3	3736.0	3742.0
157.5°	3551.6	3545.7	3545.7	3569.5	3539.7	3575.4	3628.9	3611.1	3658.7	3664.6	3688.4
160°	3510.0	3492.1	3504.0	3515.9	3515.9	3545.7	3587.3	3581.4	3611.1	3646.8	3652.7
162.5°	3533.8	3474.3	3480.2	3510.0	3498.1	3539.7	3545.7	3557.6	3587.3	3599.2	3634.9
165°	3486.2	3468.3	3456.4	3468.3	3504.0	3521.9	3539.7	3551.6	3581.4	3587.3	3605.1
167.5°	3504.0	3498.1	3498.1	3510.0	3533.8	3533.8	3563.5	3557.6	3587.3	3587.3	3599.2
170°	3539.7	3521.9	3533.8	3557.6	3515.9	3581.4	3575.4	3557.6	3605.1	3605.1	3623.0
172.5°	3587.3	3569.5	3575.4	3575.4	3575.4	3611.1	3617.0	3623.0	3628.9	3623.0	3623.0
175°	3664.6	3617.0	3611.1	3611.1	3623.0	3623.0	3634.9	3605.1	3640.8	3640.8	3634.9
177.5°	3646.8	3628.9	3658.7	3628.9	3617.0	3640.8	3658.7	3634.9	3652.7	3634.9	3652.7
180°	3652.7	3652.7	3652.7	3652.7	3652.7	3652.7	3652.7	3652.7	3652.7	3652.7	3652.7



TEST NUMBER: P508350

CATALOG NUMBER: ASYX-X-L3-X-U-F-L40-1-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°	77.3	77.3	77.3	71.4	65.4	65.4	65.4	65.4	59.5	53.5	53.5
95°	755.5	600.9	547.3	452.1	380.7	351.0	303.4	303.4	226.1	184.4	196.3
97.5°	1897.8	1475.4	1172.0	886.4	844.8	791.2	785.3	666.3	589.0	535.4	464.0
100°	2462.9	2022.7	1755.0	1606.3	1409.9	1320.7	1255.3	1130.3	1053.0	945.9	832.9
102.5°	3658.7	3040.0	2516.5	2076.2	1778.8	1653.8	1570.6	1439.7	1344.5	1237.4	1094.6
105°	5032.9	4164.4	3289.8	2629.5	2230.9	2070.3	1927.5	1796.6	1671.7	1505.1	1374.2
107.5°	5401.8	4771.2	4110.8	3373.1	2819.9	2659.2	2492.7	2272.6	2106.0	1963.2	1737.1
110°	5532.7	5027.0	4455.9	3908.6	3462.4	3349.3	3153.0	2932.9	2766.3	2593.8	2373.7
112.5°	5479.1	5163.8	4705.7	4217.9	3855.0	3742.0	3599.2	3462.4	3373.1	3242.3	2950.7
115°	5461.3	5205.5	4884.2	4449.9	4122.7	3997.8	3884.8	3759.8	3736.0	3646.8	3325.5
117.5°	5383.9	5211.4	4967.5	4616.5	4325.0	4241.7	4128.7	4027.5	4015.6	3926.4	3646.8
120°	5330.4	5187.6	4979.4	4747.4	4497.5	4408.3	4313.1	4235.8	4200.1	4134.6	3866.9
122.5°	5205.5	5151.9	4991.3	4795.0	4568.9	4527.3	4438.0	4307.1	4366.6	4295.2	4039.4
125°	5098.4	5068.6	5027.0	4789.0	4628.4	4574.9	4509.4	4432.1	4449.9	4402.3	4134.6
127.5°	4985.3	4979.4	4949.6	4806.9	4658.1	4634.3	4557.0	4497.5	4485.6	4438.0	4200.1
130°	4896.1	4890.2	4848.5	4753.3	4658.1	4652.2	4574.9	4527.3	4521.3	4479.7	4247.7
132.5°	4765.2	4765.2	4789.0	4693.8	4634.3	4616.5	4580.8	4521.3	4539.2	4449.9	4271.4
135°	4640.3	4646.2	4664.1	4616.5	4652.2	4586.7	4551.1	4473.7	4509.4	4473.7	4295.2
137.5°	4497.5	4515.4	4551.1	4533.2	4551.1	4557.0	4509.4	4491.6	4491.6	4455.9	4289.3
140°	4325.0	4396.4	4461.8	4455.9	4491.6	4485.6	4467.8	4384.5	4461.8	4438.0	4295.2
142.5°	4247.7	4289.3	4366.6	4348.8	4426.1	4426.1	4414.2	4408.3	4426.1	4384.5	4271.4
145°	4116.8	4182.2	4241.7	4277.4	4325.0	4372.6	4354.7	4366.6	4372.6	4372.6	4235.8
147.5°	4033.5	4104.9	4182.2	4194.1	4277.4	4289.3	4295.2	4313.1	4348.8	4301.2	4247.7
150°	3944.2	3991.8	4081.1	4116.8	4206.0	4223.9	4217.9	4241.7	4301.2	4265.5	4182.2
152.5°	3807.4	3908.6	3985.9	4039.4	4104.9	4146.5	4152.5	4152.5	4206.0	4206.0	4158.4
155°	3783.6	3837.2	3908.6	3962.1	4033.5	4075.1	4081.1	4081.1	4134.6	4116.8	4104.9
157.5°	3730.1	3801.5	3861.0	3878.8	3968.0	4003.7	4003.7	4015.6	4063.2	4075.1	4033.5
160°	3694.4	3730.1	3801.5	3855.0	3902.6	3944.2	3950.2	3962.1	3991.8	3985.9	3968.0
162.5°	3640.8	3694.4	3759.8	3789.6	3843.1	3884.8	3878.8	3878.8	3932.3	3944.2	3920.5
165°	3611.1	3670.6	3747.9	3765.8	3801.5	3825.3	3819.3	3837.2	3884.8	3872.9	3861.0
167.5°	3623.0	3652.7	3718.2	3712.2	3753.9	3771.7	3771.7	3759.8	3789.6	3747.9	3783.6
170°	3640.8	3640.8	3676.5	3688.4	3724.1	3742.0	3724.1	3724.1	3742.0	3753.9	3759.8
172.5°	3646.8	3640.8	3670.6	3664.6	3676.5	3706.3	3688.4	3664.6	3700.3	3724.1	3694.4
175°	3628.9	3634.9	3682.5	3670.6	3652.7	3682.5	3652.7	3646.8	3700.3	3694.4	3682.5
177.5°	3611.1	3611.1	3640.8	3617.0	3658.7	3658.7	3628.9	3628.9	3688.4	3646.8	3634.9
180°	3652.7	3652.7	3652.7	3652.7	3652.7	3652.7	3652.7	3652.7	3652.7	3652.7	3652.7



TEST NUMBER: P508350

CATALOG NUMBER: ASYX-X-L3-X-U-F-L40-1-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°	59.5	65.4	71.4	83.3	89.2	95.2	107.1	119.0	136.8	136.8	160.6
95°	190.4	196.3	196.3	208.2	214.2	214.2	220.1	243.9	267.7	297.5	351.0
97.5°	404.5	356.9	345.0	345.0	351.0	351.0	356.9	368.8	386.7	422.4	475.9
100°	713.9	606.8	529.5	487.8	475.9	470.0	475.9	475.9	505.7	553.3	612.8
102.5°	934.0	791.2	660.3	600.9	577.1	583.0	577.1	589.0	630.6	672.2	737.7
105°	1177.9	993.5	826.9	737.7	702.0	696.0	696.0	707.9	755.5	809.1	856.7
107.5°	1511.1	1279.1	1035.1	904.3	850.7	838.8	838.8	856.7	886.4	922.1	975.7
110°	2046.5	1665.7	1326.6	1118.4	1047.0	1005.4	981.6	999.4	1017.3	1047.0	1088.7
112.5°	2546.2	2076.2	1630.1	1314.7	1219.6	1154.1	1118.4	1118.4	1142.2	1166.0	1195.8
115°	2891.3	2367.7	1885.9	1517.0	1380.2	1320.7	1243.4	1249.3	1267.2	1291.0	1308.8
117.5°	3200.6	2641.4	2100.0	1707.4	1552.7	1457.5	1380.2	1362.3	1398.0	1427.8	1439.7
120°	3420.7	2879.4	2314.2	1903.7	1725.2	1618.2	1511.1	1493.2	1528.9	1534.9	1594.4
122.5°	3605.1	3051.9	2498.6	2076.2	1885.9	1796.6	1665.7	1641.9	1665.7	1707.4	1755.0
125°	3724.1	3206.6	2665.2	2236.9	2058.4	1939.4	1802.6	1784.7	1802.6	1832.3	1885.9
127.5°	3819.3	3331.5	2825.8	2403.4	2195.2	2100.0	1963.2	1927.5	1951.3	1963.2	2022.7
130°	3890.7	3474.3	2974.5	2564.1	2379.6	2284.5	2100.0	2064.3	2076.2	2106.0	2135.7
132.5°	3962.1	3563.5	3123.3	2730.6	2552.2	2445.1	2266.6	2189.3	2195.2	2219.0	2248.8
135°	4009.7	3658.7	3277.9	2897.2	2700.9	2617.6	2427.2	2349.9	2320.1	2314.2	2349.9
137.5°	4057.3	3747.9	3396.9	3051.9	2885.3	2790.1	2564.1	2474.8	2445.1	2439.1	2451.0
140°	4098.9	3825.3	3504.0	3218.5	3051.9	2938.9	2730.6	2617.6	2570.0	2546.2	2558.1
142.5°	4116.8	3890.7	3617.0	3396.9	3194.7	3063.8	2891.3	2778.2	2677.1	2647.3	2623.5
145°	4128.7	3991.8	3724.1	3510.0	3355.3	3277.9	3069.7	2921.0	2802.0	2742.5	2730.6
147.5°	4128.7	3985.9	3795.5	3605.1	3474.3	3391.0	3164.9	3069.7	2974.5	2873.4	2825.8
150°	4116.8	4051.3	3849.1	3700.3	3563.5	3498.1	3337.4	3159.0	3057.8	2986.4	2932.9
152.5°	4087.0	3997.8	3878.8	3747.9	3646.8	3605.1	3420.7	3307.7	3200.6	3093.5	3051.9
155°	4057.3	3985.9	3896.7	3789.6	3706.3	3652.7	3521.9	3408.8	3331.5	3218.5	3176.8
157.5°	4021.6	3974.0	3896.7	3837.2	3742.0	3706.3	3575.4	3498.1	3432.6	3319.6	3266.1
160°	3968.0	3938.3	3890.7	3807.4	3765.8	3736.0	3628.9	3569.5	3504.0	3420.7	3379.1
162.5°	3914.5	3920.5	3861.0	3843.1	3777.7	3753.9	3682.5	3617.0	3551.6	3504.0	3468.3
165°	3872.9	3896.7	3837.2	3777.7	3777.7	3765.8	3688.4	3658.7	3628.9	3575.4	3533.8
167.5°	3795.5	3825.3	3825.3	3753.9	3747.9	3765.8	3718.2	3688.4	3664.6	3623.0	3599.2
170°	3783.6	3783.6	3742.0	3747.9	3765.8	3724.1	3694.4	3688.4	3688.4	3664.6	3646.8
172.5°	3712.2	3747.9	3730.1	3718.2	3700.3	3700.3	3682.5	3688.4	3676.5	3682.5	3676.5
175°	3688.4	3694.4	3700.3	3694.4	3676.5	3676.5	3670.6	3676.5	3682.5	3682.5	3670.6
177.5°	3652.7	3670.6	3700.3	3670.6	3682.5	3658.7	3652.7	3664.6	3664.6	3670.6	3658.7
180°	3652.7	3652.7	3652.7	3652.7	3652.7	3652.7	3652.7	3652.7	3652.7	3652.7	3652.7



TEST NUMBER: P508350

CATALOG NUMBER: ASYX-X-L3-X-U-F-L40-1-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°	178.5	190.4	196.3	202.3	208.2	190.4	190.4	172.5	160.6
95°	380.7	410.5	410.5	410.5	428.3	440.2	434.3	428.3	428.3
97.5°	517.6	565.2	600.9	606.8	606.8	606.8	612.8	612.8	600.9
100°	654.4	678.2	702.0	707.9	702.0	702.0	696.0	707.9	702.0
102.5°	785.3	809.1	815.0	821.0	815.0	809.1	797.2	809.1	785.3
105°	898.3	922.1	916.2	910.2	904.3	892.4	880.5	898.3	892.4
107.5°	1023.2	1029.2	1035.1	1041.1	1017.3	1011.3	1011.3	1023.2	1017.3
110°	1124.4	1148.2	1142.2	1136.3	1136.3	1124.4	1118.4	1124.4	1118.4
112.5°	1231.5	1243.4	1237.4	1237.4	1231.5	1213.6	1195.8	1201.7	1195.8
115°	1344.5	1350.4	1344.5	1332.6	1320.7	1308.8	1285.0	1273.1	1267.2
117.5°	1463.5	1457.5	1445.6	1439.7	1427.8	1421.8	1386.1	1368.3	1362.3
120°	1600.3	1582.5	1558.7	1552.7	1534.9	1528.9	1481.3	1451.6	1445.6
122.5°	1766.9	1737.1	1689.5	1665.7	1659.8	1641.9	1582.5	1570.6	1552.7
125°	1909.7	1897.8	1868.0	1850.2	1826.4	1772.8	1707.4	1677.6	1689.5
127.5°	2046.5	2040.5	2028.6	2004.8	1975.1	1951.3	1897.8	1850.2	1838.3
130°	2159.5	2165.5	2147.6	2129.8	2111.9	2088.1	2028.6	1998.9	1998.9
132.5°	2266.6	2272.6	2284.5	2236.9	2225.0	2201.2	2147.6	2111.9	2123.8
135°	2349.9	2361.8	2343.9	2326.1	2314.2	2290.4	2236.9	2219.0	2225.0
137.5°	2462.9	2451.0	2433.2	2421.3	2391.5	2385.6	2343.9	2314.2	2302.3
140°	2534.3	2540.3	2540.3	2510.5	2480.8	2468.9	2427.2	2397.5	2403.4
142.5°	2629.5	2605.7	2617.6	2587.9	2570.0	2552.2	2498.6	2492.7	2492.7
145°	2700.9	2689.0	2683.0	2659.2	2653.3	2617.6	2599.8	2570.0	2587.9
147.5°	2778.2	2778.2	2778.2	2724.7	2712.8	2694.9	2677.1	2653.3	2671.1
150°	2891.3	2849.6	2837.7	2808.0	2784.2	2772.3	2730.6	2718.7	2736.6
152.5°	2980.5	2932.9	2897.2	2879.4	2873.4	2855.6	2831.8	2813.9	2813.9
155°	3087.6	3022.1	3022.1	2956.7	2938.9	2927.0	2903.2	2897.2	2903.2
157.5°	3200.6	3141.1	3111.4	3075.7	3045.9	3034.0	3004.3	2992.4	3004.3
160°	3283.9	3277.9	3212.5	3194.7	3164.9	3147.1	3141.1	3111.4	3111.4
162.5°	3414.8	3331.5	3319.6	3301.7	3277.9	3254.2	3242.3	3230.4	3242.3
165°	3486.2	3462.4	3432.6	3408.8	3391.0	3385.0	3349.3	3361.2	3355.3
167.5°	3569.5	3551.6	3521.9	3504.0	3510.0	3486.2	3486.2	3456.4	3462.4
170°	3628.9	3640.8	3605.1	3587.3	3575.4	3575.4	3551.6	3551.6	3563.5
172.5°	3670.6	3688.4	3658.7	3646.8	3634.9	3646.8	3623.0	3617.0	3628.9
175°	3682.5	3706.3	3682.5	3676.5	3664.6	3700.3	3658.7	3658.7	3634.9
177.5°	3670.6	3676.5	3700.3	3664.6	3664.6	3676.5	3682.5	3634.9	3664.6
180°	3652.7	3652.7	3652.7	3652.7	3652.7	3652.7	3652.7	3652.7	3652.7

(END OF REPORT)