

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: P508378

Luminaire Tested: **ASYX-X-L4-X-U-W-L40-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-840-2)
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-W-L40-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(4) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

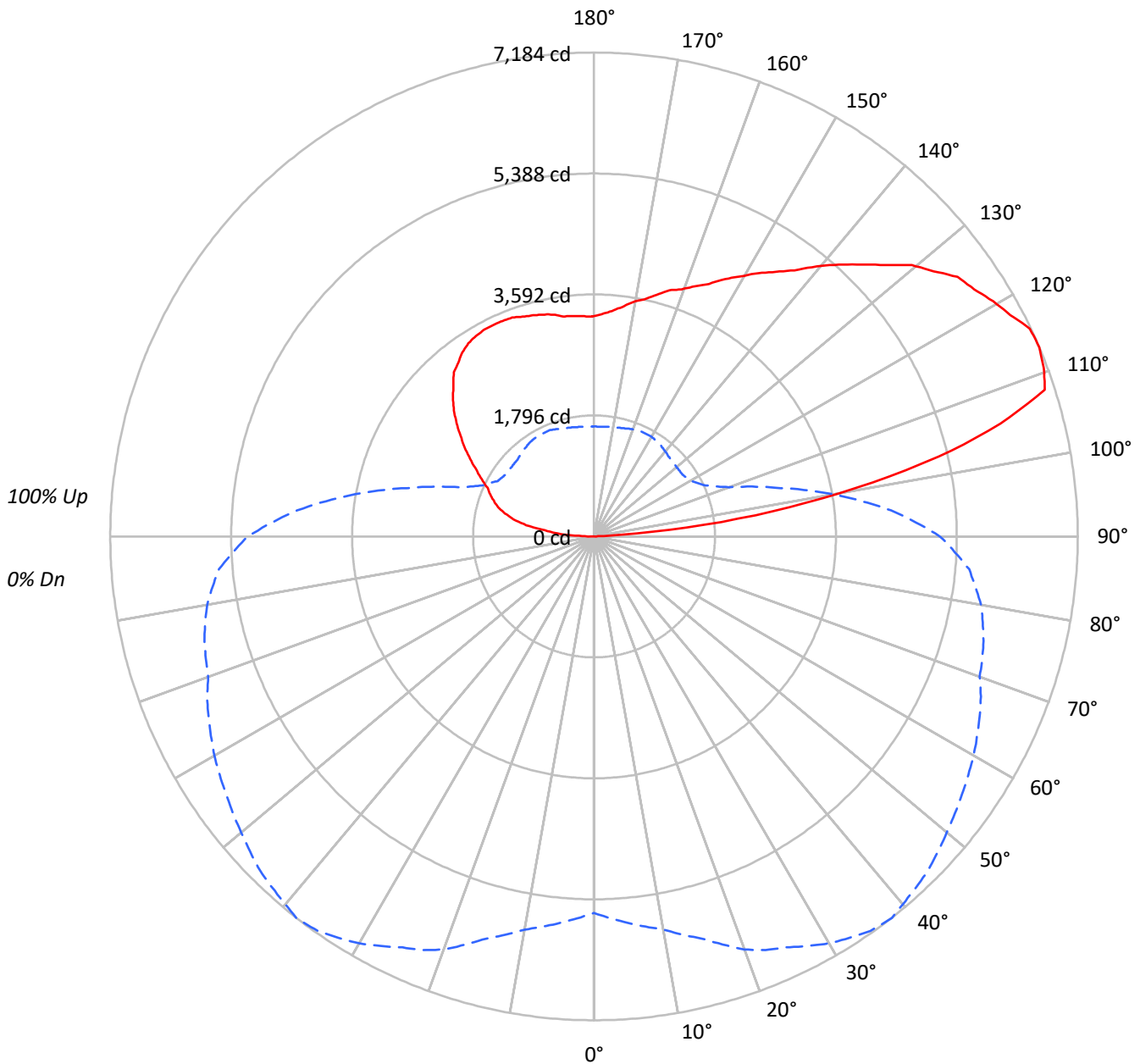
Lumens per Lamp: N/A
Luminaire Lumens: 21596.4 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
N/A
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Indirect

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: P508378
CATALOG NUMBER: ASYX-X-L4-X-U-W-L40-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot



— Vertical Plane Through 38° Lateral - - - Horizontal Cone Through 112.5° Vertical



TEST NUMBER: P508378

CATALOG NUMBER: ASYX-X-L4-X-U-W-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°	50129	55798	70940
100°	136718	105861	64559
105°	136955	113067	59239
110°	152565	139067	49892
115°	160919	139464	41546
120°	150852	122825	38578
125°	131788	105058	38373
130°	113367	87205	39756
135°	96177	74843	40452
140°	80706	63704	41752
145°	68228	56053	41862
150°	58064	49687	41977
155°	50844	44477	40839
160°	45791	40528	39739
165°	41988	38148	38062
170°	39007	36328	36495
175°	36492	35416	35250



TEST NUMBER: P508378

CATALOG NUMBER: ASYX-X-L4-X-U-W-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°	883.9	4.1
100°-110°	3199.5	14.8
110°-120°	4313.0	20.0
120°-130°	4105.0	19.0
130°-140°	3420.2	15.8
140°-150°	2591.0	12.0
150°-160°	1763.3	8.2
160°-170°	1001.9	4.6
170°-180°	318.7	1.5
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°	8396.4	38.9
90°-150°	18512.6	85.7
90°-180°	21596.0	100.0
0°-180°	21596.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	406	1325	452	452	574	722
105°	3293	6724	2719	1202	1424	3572
115°	6318	6877	5476	1738	1631	6092
125°	7023	6287	5598	2336	2045	6268
135°	6318	5414	4917	2964	2657	4896
145°	5192	4618	4266	3370	3186	3285
155°	4281	4059	3745	3492	3439	2000
165°	3768	3653	3423	3400	3416	1075
175°	3377	3331	3278	3270	3262	329
180°	3262	3262	3262	3262	3262	



TEST NUMBER: P508378

CATALOG NUMBER: ASYX-X-L4-X-U-W-L40-1-UNV-X-X-X-STD

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	38°	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°	61.3	61.3	61.3	68.9	76.6	84.2	84.2	107.2	137.8	145.5	168.5
95°	405.9	467.2	696.9	804.1	811.8	834.8	834.8	1056.8	1317.2	1378.5	1439.8
97.5°	1087.5	1164.1	1409.1	1600.6	1876.3	1952.9	2044.8	2228.6	2511.9	2680.4	2764.6
100°	2205.6	2220.9	2351.1	2527.2	2825.9	2994.4	3201.2	3706.6	3959.3	3959.3	3867.4
102.5°	2795.3	2810.6	2925.5	3093.9	3446.2	3698.9	3936.4	4549.0	5062.1	5253.6	5330.2
105°	3293.1	3346.7	3469.2	3706.6	4135.5	4418.8	4640.9	5337.8	5935.2	6264.5	6517.2
107.5°	3928.7	4012.9	4219.7	4495.4	5008.5	5337.8	5621.2	6187.9	6708.7	7038.0	7030.3
110°	4847.7	4893.6	5108.1	5468.0	5912.2	6172.6	6348.7	6746.9	7099.2	7129.9	7145.2
112.5°	5590.5	5759.0	5927.5	6180.2	6524.9	6647.4	6731.6	6976.7	7152.8	7183.5	7129.9
115°	6318.1	6379.3	6463.6	6632.1	6792.9	6915.4	6930.7	7060.9	7099.2	7168.2	7045.6
117.5°	6769.9	6800.6	6808.2	6869.5	6953.7	7022.6	7007.3	7045.6	7091.6	6999.7	6938.4
120°	7007.3	7038.0	6984.4	7007.3	7030.3	7045.6	7015.0	7030.3	6946.1	6877.1	6808.2
122.5°	7099.2	7091.6	7038.0	7038.0	7007.3	6999.7	6938.4	6884.8	6823.5	6731.6	6647.4
125°	7022.6	7053.3	6984.4	6930.7	6861.8	6976.7	6823.5	6769.9	6662.7	6632.1	6471.2
127.5°	6923.1	6984.4	6869.5	6815.9	6746.9	6724.0	6632.1	6555.5	6478.9	6394.7	6287.4
130°	6769.9	6792.9	6685.7	6632.1	6563.1	6494.2	6478.9	6310.4	6256.8	6203.2	6057.7
132.5°	6616.8	6578.5	6471.2	6402.3	6318.1	6279.8	6241.5	6096.0	6019.4	5904.5	5828.0
135°	6318.1	6325.7	6226.2	6149.6	6034.7	6034.7	5965.8	5858.6	5759.0	5659.5	5559.9
137.5°	6034.7	6088.3	5942.8	5873.9	5812.6	5766.7	5674.8	5575.2	5468.0	5429.7	5353.1
140°	5743.7	5751.4	5636.5	5575.2	5529.3	5445.0	5391.4	5299.5	5261.2	5192.3	5085.1
142.5°	5491.0	5460.4	5368.5	5299.5	5253.6	5192.3	5161.7	5069.8	5008.5	4947.2	4909.0
145°	5192.3	5184.7	5077.4	5031.5	4993.2	4970.2	4916.6	4847.7	4817.1	4763.5	4763.5
147.5°	4939.6	4901.3	4840.0	4786.4	4740.5	4717.5	4717.5	4595.0	4617.9	4610.3	4541.4
150°	4671.6	4663.9	4579.7	4556.7	4518.4	4533.7	4518.4	4464.8	4464.8	4434.1	4388.2
152.5°	4457.1	4457.1	4388.2	4372.9	4357.6	4349.9	4319.3	4296.3	4296.3	4288.6	4235.0
155°	4281.0	4281.0	4227.4	4219.7	4196.7	4189.1	4173.8	4150.8	4135.5	4120.2	4074.2
157.5°	4135.5	4127.8	4066.5	4074.2	4051.2	4051.2	4043.6	3997.6	4012.9	4005.3	3974.6
160°	3997.6	3990.0	3928.7	3951.7	3936.4	3936.4	3936.4	3905.7	3890.4	3890.4	3821.5
162.5°	3875.1	3890.4	3829.1	3821.5	3829.1	3829.1	3798.5	3775.5	3798.5	3821.5	3752.6
165°	3767.9	3752.6	3729.6	3721.9	3706.6	3691.3	3706.6	3691.3	3676.0	3706.6	3683.6
167.5°	3660.7	3676.0	3630.0	3614.7	3614.7	3645.3	3622.4	3591.7	3607.1	3599.4	3553.4
170°	3568.8	3584.1	3522.8	3522.8	3522.8	3522.8	3499.8	3476.9	3515.2	3530.5	3476.9
172.5°	3476.9	3499.8	3446.2	3438.6	3430.9	3446.2	3430.9	3407.9	3453.9	3430.9	3407.9
175°	3377.3	3415.6	3362.0	3354.3	3369.6	3369.6	3354.3	3339.0	3369.6	3354.3	3339.0
177.5°	3331.4	3331.4	3277.7	3285.4	3285.4	3277.7	3300.7	3293.1	3300.7	3300.7	3331.4
180°	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4



TEST NUMBER: P508378

CATALOG NUMBER: ASYX-X-L4-X-U-W-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°	176.1	206.8	222.1	122.5	122.5	137.8	130.2	114.9	99.6	91.9	91.9
95°	1324.9	1256.0	1294.2	1164.1	1010.9	888.4	880.7	888.4	612.7	459.5	451.8
97.5°	2848.9	2818.2	2580.8	2213.2	2106.0	2113.7	1983.5	1646.5	1378.5	1179.4	1018.6
100°	3706.6	3607.1	3499.8	3576.4	3362.0	3193.5	2956.1	2657.4	2343.4	2075.4	1707.8
102.5°	5284.2	5131.0	4740.5	4311.6	3882.7	3729.6	3553.4	3216.5	2887.2	2573.2	2197.9
105°	6724.0	6463.6	5805.0	5192.3	4610.3	4434.1	4204.4	3829.1	3446.2	3132.2	2718.7
107.5°	7068.6	6877.1	6509.5	6096.0	5590.5	5299.5	5085.1	4679.2	4319.3	3890.4	3415.6
110°	7099.2	6907.8	6678.0	6394.7	6149.6	5981.1	5843.3	5536.9	5276.6	4901.3	4418.8
112.5°	7015.0	6838.8	6670.4	6509.5	6318.1	6218.5	6096.0	5988.8	5835.6	5590.5	5138.7
115°	6877.1	6724.0	6570.8	6433.0	6341.1	6295.1	6233.8	6149.6	6065.4	5881.6	5475.7
117.5°	6746.9	6570.8	6433.0	6387.0	6302.8	6233.8	6226.2	6210.9	6157.3	6065.4	5674.8
120°	6616.8	6478.9	6341.1	6241.5	6210.9	6203.2	6203.2	6157.3	6172.6	6096.0	5705.4
122.5°	6410.0	6302.8	6187.9	6141.9	6011.8	6042.4	6057.7	6027.1	6088.3	6034.7	5667.1
125°	6287.4	6180.2	6034.7	5965.8	5942.8	5912.2	5942.8	5889.2	5919.9	5881.6	5598.2
127.5°	6080.7	5942.8	5866.2	5812.6	5797.3	5690.1	5743.7	5751.4	5759.0	5697.8	5445.0
130°	5858.6	5782.0	5605.9	5628.8	5628.8	5590.5	5598.2	5567.6	5552.3	5498.6	5207.6
132.5°	5697.8	5598.2	5483.3	5452.7	5422.1	5414.4	5414.4	5360.8	5360.8	5291.9	5100.4
135°	5414.4	5345.5	5299.5	5268.9	5261.2	5230.6	5230.6	5177.0	5169.3	5108.1	4916.6
137.5°	5215.3	5146.4	5108.1	5085.1	5062.1	5008.5	5039.1	4993.2	4947.2	4931.9	4748.1
140°	5016.2	4962.6	4931.9	4893.6	4886.0	4855.3	4855.3	4801.7	4786.4	4717.5	4533.7
142.5°	4847.7	4817.1	4755.8	4740.5	4686.9	4694.5	4656.2	4663.9	4602.6	4526.0	4380.5
145°	4617.9	4625.6	4595.0	4564.3	4556.7	4510.7	4518.4	4472.4	4434.1	4380.5	4265.7
147.5°	4495.4	4495.4	4449.5	4411.2	4380.5	4372.9	4334.6	4342.2	4281.0	4204.4	4127.8
150°	4334.6	4319.3	4273.3	4250.3	4227.4	4227.4	4189.1	4166.1	4120.2	4097.2	3997.6
152.5°	4219.7	4181.4	4158.4	4112.5	4112.5	4074.2	4043.6	4028.3	3990.0	3944.0	3867.4
155°	4058.9	4043.6	4012.9	4005.3	3974.6	3944.0	3890.4	3882.7	3859.8	3813.8	3744.9
157.5°	3928.7	3951.7	3905.7	3882.7	3836.8	3829.1	3775.5	3783.2	3737.2	3706.6	3645.3
160°	3867.4	3829.1	3783.2	3775.5	3760.2	3698.9	3691.3	3668.3	3637.7	3614.7	3538.1
162.5°	3729.6	3721.9	3698.9	3683.6	3630.0	3630.0	3538.1	3576.4	3553.4	3530.5	3492.2
165°	3653.0	3660.7	3607.1	3591.7	3576.4	3545.8	3522.8	3499.8	3476.9	3461.5	3423.3
167.5°	3553.4	3538.1	3522.8	3492.2	3499.8	3476.9	3453.9	3438.6	3423.3	3407.9	3377.3
170°	3469.2	3461.5	3446.2	3423.3	3430.9	3407.9	3407.9	3377.3	3369.6	3362.0	3323.7
172.5°	3400.3	3400.3	3385.0	3385.0	3377.3	3354.3	3339.0	3323.7	3323.7	3308.4	3300.7
175°	3331.4	3339.0	3331.4	3323.7	3323.7	3308.4	3308.4	3316.0	3300.7	3300.7	3277.7
177.5°	3277.7	3277.7	3277.7	3277.7	3277.7	3277.7	3277.7	3270.1	3277.7	3270.1	3247.1
180°	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4



TEST NUMBER: P508378

CATALOG NUMBER: ASYX-X-L4-X-U-W-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°	99.6	107.2	114.9	122.5	145.5	137.8	160.8	168.5	183.8	214.4	222.1
95°	405.9	405.9	398.2	398.2	382.9	382.9	375.3	367.6	405.9	451.8	513.1
97.5°	834.8	712.2	651.0	628.0	620.3	612.7	597.3	574.4	589.7	628.0	704.6
100°	1409.1	1164.1	964.9	850.1	827.1	788.8	773.5	765.8	765.8	842.4	964.9
102.5°	1822.7	1462.7	1202.4	1033.9	987.9	949.6	926.7	926.7	942.0	1033.9	1171.7
105°	2305.1	1845.6	1447.4	1225.3	1187.0	1133.4	1095.1	1102.8	1118.1	1202.4	1324.9
107.5°	2887.2	2335.8	1861.0	1516.3	1432.1	1355.5	1294.2	1294.2	1301.9	1355.5	1447.4
110°	3760.2	3048.0	2335.8	1822.7	1684.8	1600.6	1455.1	1455.1	1447.4	1485.7	1547.0
112.5°	4426.5	3599.4	2787.6	2129.0	1937.5	1799.7	1646.5	1600.6	1600.6	1608.2	1646.5
115°	4824.7	3967.0	3101.6	2412.4	2159.6	1991.2	1799.7	1746.1	1723.1	1738.4	1723.1
117.5°	5054.5	4189.1	3369.6	2619.1	2381.7	2190.3	1952.9	1883.9	1845.6	1876.3	1868.6
120°	5169.3	4388.2	3584.1	2833.6	2588.5	2366.4	2113.7	2044.8	2014.1	2014.1	2021.8
122.5°	5184.7	4495.4	3706.6	3025.0	2780.0	2565.5	2305.1	2205.6	2175.0	2182.6	2182.6
125°	5131.0	4480.1	3821.5	3178.2	2940.8	2726.3	2458.3	2374.1	2305.1	2335.8	2343.4
127.5°	5046.8	4441.8	3890.4	3300.7	3086.3	2894.8	2649.8	2550.2	2488.9	2504.3	2496.6
130°	4924.3	4395.9	3951.7	3407.9	3224.1	3032.7	2818.2	2726.3	2642.1	2649.8	2657.4
132.5°	4801.7	4380.5	3982.3	3492.2	3339.0	3178.2	2963.8	2871.9	2795.3	2802.9	2802.9
135°	4671.6	4342.2	3944.0	3545.8	3469.2	3300.7	3124.6	3025.0	2963.8	2963.8	2948.4
137.5°	4533.7	4250.3	3974.6	3653.0	3545.8	3407.9	3231.8	3155.2	3093.9	3086.3	3078.6
140°	4411.2	4150.8	3936.4	3676.0	3599.4	3492.2	3346.7	3285.4	3201.2	3185.8	3231.8
142.5°	4288.6	4104.8	3974.6	3729.6	3653.0	3561.1	3453.9	3369.6	3308.4	3293.1	3285.4
145°	4166.1	4058.9	3913.4	3714.3	3683.6	3591.7	3476.9	3453.9	3385.0	3369.6	3369.6
147.5°	4043.6	3951.7	3844.5	3706.6	3706.6	3630.0	3576.4	3507.5	3453.9	3423.3	3423.3
150°	3936.4	3859.8	3806.2	3698.9	3691.3	3630.0	3584.1	3553.4	3492.2	3476.9	3469.2
152.5°	3836.8	3767.9	3721.9	3653.0	3645.3	3561.1	3576.4	3545.8	3484.5	3469.2	3469.2
155°	3714.3	3706.6	3653.0	3584.1	3614.7	3568.8	3530.5	3568.8	3476.9	3492.2	3492.2
157.5°	3630.0	3622.4	3614.7	3545.8	3553.4	3530.5	3507.5	3538.1	3461.5	3469.2	3469.2
160°	3538.1	3522.8	3522.8	3461.5	3507.5	3461.5	3469.2	3484.5	3438.6	3446.2	3469.2
162.5°	3492.2	3461.5	3461.5	3438.6	3453.9	3438.6	3400.3	3453.9	3446.2	3430.9	3438.6
165°	3415.6	3407.9	3423.3	3377.3	3415.6	3369.6	3385.0	3407.9	3392.6	3400.3	3407.9
167.5°	3369.6	3362.0	3369.6	3346.7	3369.6	3354.3	3346.7	3377.3	3362.0	3369.6	3377.3
170°	3331.4	3331.4	3339.0	3316.0	3339.0	3316.0	3339.0	3339.0	3331.4	3331.4	3346.7
172.5°	3316.0	3293.1	3316.0	3277.7	3316.0	3270.1	3285.4	3308.4	3300.7	3293.1	3293.1
175°	3285.4	3277.7	3300.7	3262.4	3285.4	3262.4	3262.4	3285.4	3277.7	3270.1	3300.7
177.5°	3285.4	3262.4	3285.4	3247.1	3270.1	3254.8	3254.8	3277.7	3262.4	3262.4	3285.4
180°	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4



TEST NUMBER: P508378

CATALOG NUMBER: ASYX-X-L4-X-U-W-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°	222.1	260.4	268.0	291.0	283.4	237.4	206.8	168.5	145.5
95°	582.0	643.3	704.6	696.9	719.9	673.9	628.0	605.0	574.4
97.5°	781.1	880.7	942.0	942.0	949.6	919.0	903.7	919.0	880.7
100°	1102.8	1171.7	1194.7	1187.0	1164.1	1110.5	1079.8	1064.5	1041.5
102.5°	1294.2	1370.8	1393.8	1378.5	1363.2	1340.2	1309.6	1294.2	1286.6
105°	1424.4	1493.4	1524.0	1516.3	1508.7	1470.4	1409.1	1432.1	1424.4
107.5°	1547.0	1592.9	1623.6	1600.6	1592.9	1569.9	1531.7	1554.6	1524.0
110°	1623.6	1661.8	1669.5	1669.5	1654.2	1631.2	1600.6	1608.2	1585.3
112.5°	1684.8	1707.8	1707.8	1707.8	1692.5	1661.8	1646.5	1631.2	1631.2
115°	1753.7	1738.4	1746.1	1746.1	1730.8	1684.8	1661.8	1646.5	1631.2
117.5°	1876.3	1853.3	1830.3	1830.3	1792.0	1761.4	1738.4	1715.5	1692.5
120°	1991.2	1975.8	1960.5	1937.5	1914.6	1876.3	1838.0	1807.4	1792.0
122.5°	2144.3	2106.0	2083.1	2098.4	2052.4	2014.1	1968.2	1937.5	1899.3
125°	2312.8	2282.2	2243.9	2228.6	2190.3	2159.6	2121.3	2090.7	2044.8
127.5°	2458.3	2412.4	2397.0	2389.4	2343.4	2305.1	2243.9	2220.9	2220.9
130°	2626.8	2573.2	2580.8	2542.5	2504.3	2443.0	2381.7	2381.7	2374.1
132.5°	2787.6	2726.3	2718.7	2703.4	2657.4	2611.5	2573.2	2565.5	2534.9
135°	2917.8	2871.9	2864.2	2848.9	2810.6	2764.6	2703.4	2718.7	2657.4
137.5°	3032.7	3009.7	3002.0	2971.4	2933.1	2925.5	2856.5	2848.9	2810.6
140°	3162.9	3116.9	3147.6	3109.3	3063.3	3048.0	2956.1	2971.4	2971.4
142.5°	3254.8	3231.8	3224.1	3208.8	3178.2	3147.6	3124.6	3093.9	3109.3
145°	3346.7	3331.4	3316.0	3316.0	3270.1	3254.8	3208.8	3208.8	3185.8
147.5°	3423.3	3392.6	3392.6	3377.3	3354.3	3339.0	3293.1	3316.0	3277.7
150°	3423.3	3438.6	3423.3	3423.3	3430.9	3423.3	3385.0	3369.6	3377.3
152.5°	3484.5	3461.5	3446.2	3476.9	3438.6	3461.5	3407.9	3423.3	3407.9
155°	3453.9	3469.2	3476.9	3461.5	3461.5	3461.5	3438.6	3476.9	3438.6
157.5°	3484.5	3469.2	3476.9	3469.2	3453.9	3476.9	3453.9	3484.5	3461.5
160°	3469.2	3453.9	3469.2	3461.5	3446.2	3476.9	3476.9	3499.8	3469.2
162.5°	3415.6	3430.9	3469.2	3446.2	3446.2	3499.8	3415.6	3492.2	3446.2
165°	3400.3	3407.9	3423.3	3438.6	3407.9	3430.9	3430.9	3438.6	3415.6
167.5°	3385.0	3354.3	3385.0	3385.0	3392.6	3392.6	3392.6	3407.9	3377.3
170°	3354.3	3293.1	3354.3	3354.3	3339.0	3339.0	3331.4	3377.3	3339.0
172.5°	3300.7	3285.4	3308.4	3308.4	3323.7	3316.0	3316.0	3323.7	3300.7
175°	3270.1	3277.7	3308.4	3285.4	3277.7	3285.4	3262.4	3285.4	3262.4
177.5°	3254.8	3254.8	3262.4	3270.1	3285.4	3270.1	3247.1	3270.1	3247.1
180°	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4

(END OF REPORT)