

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: P508472

Luminaire Tested: **ASYX-X-S4-X-U-W-L30-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508472
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-S4-X-U-W-L30-1-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

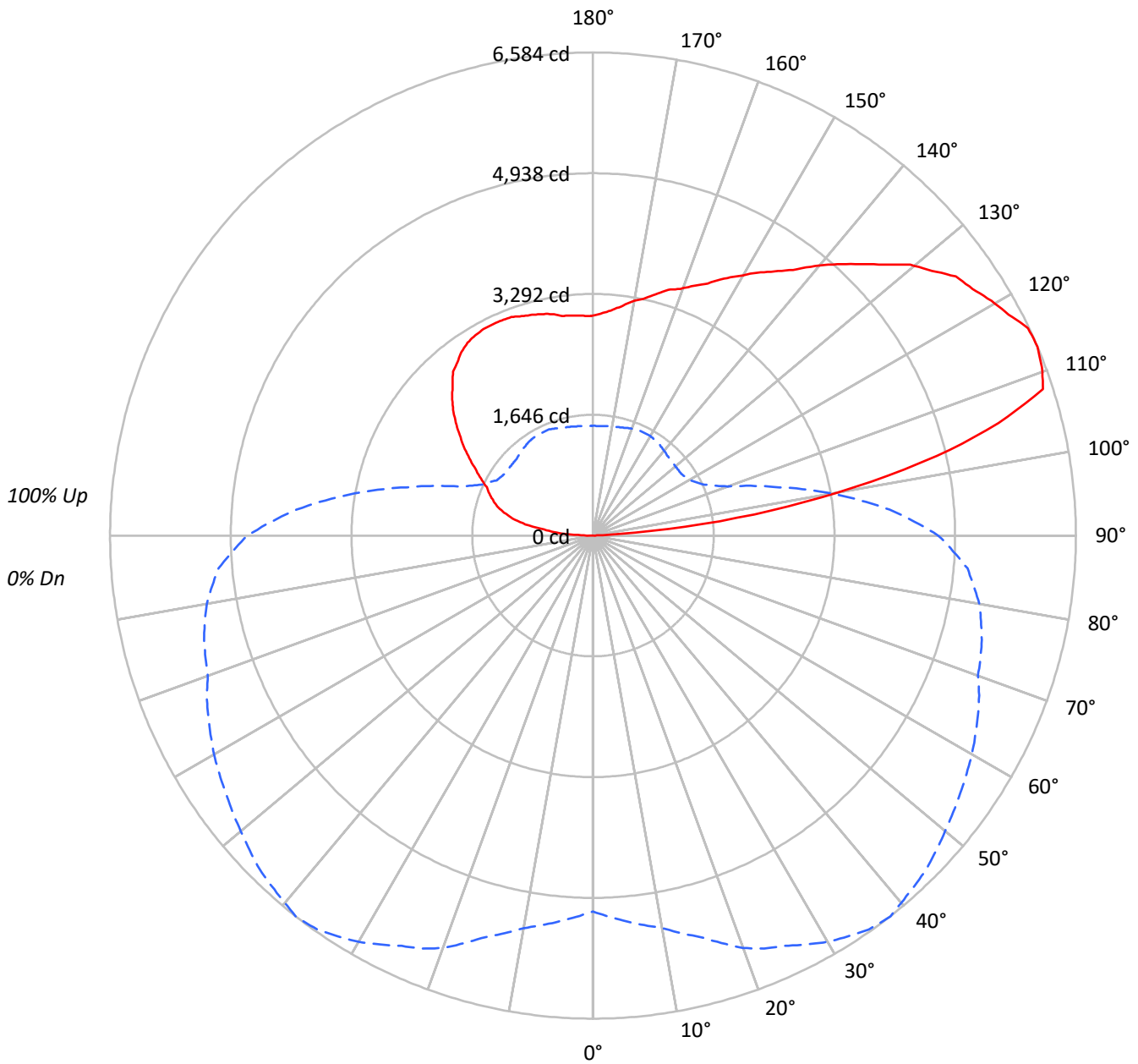
Lumens per Lamp: N/A
Luminaire Lumens: 19793.5 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
N/A
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
CIE Type: Indirect

Input Watts (W): 215.1
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: P508472
CATALOG NUMBER: ASYX-X-S4-X-U-W-L30-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot



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



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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°	45943	51142	65011
100°	125307	97022	59173
105°	125523	103626	54294
110°	139828	127460	45725
115°	147487	127822	38077
120°	138260	112571	35357
125°	120787	96288	35170
130°	103904	79925	36437
135°	88149	68596	37076
140°	73969	58386	38267
145°	62533	51373	38368
150°	53216	45539	38473
155°	46599	40764	37429
160°	41969	37145	36421
165°	38482	34963	34885
170°	35750	33295	33449
175°	33446	32459	32308



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CATALOG NUMBER: ASYX-X-S4-X-U-W-L30-1-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°	810.1	4.1
100°-110°	2932.4	14.8
110°-120°	3952.9	20.0
120°-130°	3762.3	19.0
130°-140°	3134.7	15.8
140°-150°	2374.7	12.0
150°-160°	1616.1	8.2
160°-170°	918.2	4.6
170°-180°	292.1	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°	7695.5	38.9
90°-150°	16967.2	85.7
90°-180°	19794.0	100.0
0°-180°	19793.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	372	1214	414	414	526	662
105°	3018	6163	2492	1102	1306	3274
115°	5791	6303	5019	1593	1495	5584
125°	6436	5763	5131	2141	1874	5744
135°	5791	4962	4506	2716	2436	4487
145°	4759	4232	3910	3088	2920	3010
155°	3924	3720	3432	3201	3152	1833
165°	3453	3348	3138	3116	3130	986
175°	3095	3053	3004	2997	2990	302
180°	2990	2990	2990	2990	2990	



TEST NUMBER: P508472

CATALOG NUMBER: ASYX-X-S4-X-U-W-L30-1-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°	56.2	56.2	56.2	63.2	70.2	77.2	77.2	98.3	126.3	133.4	154.4
95°	372.0	428.2	638.7	737.0	744.0	765.1	765.1	968.6	1207.3	1263.4	1319.6
97.5°	996.7	1066.9	1291.5	1467.0	1719.6	1789.8	1874.1	2042.5	2302.2	2456.6	2533.9
100°	2021.5	2035.5	2154.8	2316.3	2590.0	2744.4	2933.9	3397.2	3628.8	3628.8	3544.6
102.5°	2561.9	2576.0	2681.3	2835.7	3158.5	3390.2	3607.8	4169.3	4639.5	4815.0	4885.2
105°	3018.2	3067.3	3179.6	3397.2	3790.2	4050.0	4253.5	4892.2	5439.7	5741.5	5973.2
107.5°	3600.7	3677.9	3867.5	4120.1	4590.4	4892.2	5151.9	5671.3	6148.6	6450.4	6443.4
110°	4443.0	4485.1	4681.7	5011.6	5418.7	5657.3	5818.7	6183.7	6506.6	6534.7	6548.7
112.5°	5123.9	5278.3	5432.7	5664.3	5980.2	6092.5	6169.7	6394.3	6555.7	6583.8	6534.7
115°	5790.7	5846.8	5924.0	6078.4	6225.8	6338.1	6352.2	6471.5	6506.6	6569.8	6457.5
117.5°	6204.8	6232.9	6239.9	6296.0	6373.2	6436.4	6422.4	6457.5	6499.6	6415.3	6359.2
120°	6422.4	6450.4	6401.3	6422.4	6443.4	6457.5	6429.4	6443.4	6366.2	6303.0	6239.9
122.5°	6506.6	6499.6	6450.4	6450.4	6422.4	6415.3	6359.2	6310.1	6253.9	6169.7	6092.5
125°	6436.4	6464.5	6401.3	6352.2	6289.0	6394.3	6253.9	6204.8	6106.5	6078.4	5931.0
127.5°	6345.2	6401.3	6296.0	6246.9	6183.7	6162.7	6078.4	6008.2	5938.1	5860.8	5762.6
130°	6204.8	6225.8	6127.6	6078.4	6015.3	5952.1	5938.1	5783.6	5734.5	5685.4	5552.0
132.5°	6064.4	6029.3	5931.0	5867.9	5790.7	5755.6	5720.5	5587.1	5516.9	5411.6	5341.4
135°	5790.7	5797.7	5706.4	5636.2	5531.0	5531.0	5467.8	5369.5	5278.3	5187.0	5095.8
137.5°	5531.0	5580.1	5446.7	5383.6	5327.4	5285.3	5201.1	5109.8	5011.6	4976.5	4906.3
140°	5264.2	5271.3	5166.0	5109.8	5067.7	4990.5	4941.4	4857.1	4822.0	4758.9	4660.6
142.5°	5032.6	5004.5	4920.3	4857.1	4815.0	4758.9	4730.8	4646.6	4590.4	4534.3	4499.2
145°	4758.9	4751.8	4653.6	4611.5	4576.4	4555.3	4506.2	4443.0	4414.9	4365.8	4365.8
147.5°	4527.2	4492.1	4436.0	4386.9	4344.7	4323.7	4323.7	4211.4	4232.4	4225.4	4162.3
150°	4281.6	4274.6	4197.3	4176.3	4141.2	4155.2	4141.2	4092.1	4092.1	4064.0	4021.9
152.5°	4085.0	4085.0	4021.9	4007.8	3993.8	3986.8	3958.7	3937.6	3937.6	3930.6	3881.5
155°	3923.6	3923.6	3874.5	3867.5	3846.4	3839.4	3825.3	3804.3	3790.2	3776.2	3734.1
157.5°	3790.2	3783.2	3727.1	3734.1	3713.0	3713.0	3706.0	3663.9	3677.9	3670.9	3642.9
160°	3663.9	3656.9	3600.7	3621.8	3607.8	3607.8	3607.8	3579.7	3565.6	3565.6	3502.5
162.5°	3551.6	3565.6	3509.5	3502.5	3509.5	3509.5	3481.4	3460.4	3481.4	3502.5	3439.3
165°	3453.3	3439.3	3418.2	3411.2	3397.2	3383.1	3397.2	3383.1	3369.1	3397.2	3376.1
167.5°	3355.1	3369.1	3327.0	3313.0	3313.0	3341.0	3320.0	3291.9	3305.9	3298.9	3256.8
170°	3270.8	3284.9	3228.7	3228.7	3228.7	3228.7	3207.7	3186.6	3221.7	3235.7	3186.6
172.5°	3186.6	3207.7	3158.5	3151.5	3144.5	3158.5	3144.5	3123.4	3165.6	3144.5	3123.4
175°	3095.4	3130.5	3081.3	3074.3	3088.4	3088.4	3074.3	3060.3	3088.4	3074.3	3060.3
177.5°	3053.3	3053.3	3004.1	3011.1	3011.1	3004.1	3025.2	3018.2	3025.2	3025.2	3053.3
180°	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1



TEST NUMBER: P508472

CATALOG NUMBER: ASYX-X-S4-X-U-W-L30-1-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°	161.4	189.5	203.6	112.3	112.3	126.3	119.3	105.3	91.2	84.2	84.2
95°	1214.3	1151.1	1186.2	1066.9	926.5	814.2	807.2	814.2	561.5	421.1	414.1
97.5°	2611.1	2583.0	2365.4	2028.5	1930.2	1937.2	1817.9	1509.1	1263.4	1080.9	933.5
100°	3397.2	3305.9	3207.7	3277.9	3081.3	2926.9	2709.3	2435.6	2147.8	1902.1	1565.2
102.5°	4843.1	4702.7	4344.7	3951.7	3558.6	3418.2	3256.8	2948.0	2646.2	2358.4	2014.4
105°	6162.7	5924.0	5320.4	4758.9	4225.4	4064.0	3853.4	3509.5	3158.5	2870.8	2491.7
107.5°	6478.5	6303.0	5966.1	5587.1	5123.9	4857.1	4660.6	4288.6	3958.7	3565.6	3130.5
110°	6506.6	6331.1	6120.6	5860.8	5636.2	5481.8	5355.5	5074.7	4836.1	4492.1	4050.0
112.5°	6429.4	6267.9	6113.5	5966.1	5790.7	5699.4	5587.1	5488.8	5348.5	5123.9	4709.7
115°	6303.0	6162.7	6022.3	5895.9	5811.7	5769.6	5713.4	5636.2	5559.0	5390.6	5018.6
117.5°	6183.7	6022.3	5895.9	5853.8	5776.6	5713.4	5706.4	5692.4	5643.3	5559.0	5201.1
120°	6064.4	5938.1	5811.7	5720.5	5692.4	5685.4	5685.4	5643.3	5657.3	5587.1	5229.1
122.5°	5874.9	5776.6	5671.3	5629.2	5509.9	5538.0	5552.0	5523.9	5580.1	5531.0	5194.0
125°	5762.6	5664.3	5531.0	5467.8	5446.7	5418.7	5446.7	5397.6	5425.7	5390.6	5130.9
127.5°	5573.1	5446.7	5376.5	5327.4	5313.4	5215.1	5264.2	5271.3	5278.3	5222.1	4990.5
130°	5369.5	5299.3	5137.9	5158.9	5158.9	5123.9	5130.9	5102.8	5088.8	5039.6	4772.9
132.5°	5222.1	5130.9	5025.6	4997.5	4969.4	4962.4	4962.4	4913.3	4913.3	4850.1	4674.6
135°	4962.4	4899.2	4857.1	4829.1	4822.0	4794.0	4794.0	4744.8	4737.8	4681.7	4506.2
137.5°	4779.9	4716.8	4681.7	4660.6	4639.5	4590.4	4618.5	4576.4	4534.3	4520.2	4351.8
140°	4597.4	4548.3	4520.2	4485.1	4478.1	4450.0	4450.0	4400.9	4386.9	4323.7	4155.2
142.5°	4443.0	4414.9	4358.8	4344.7	4295.6	4302.6	4267.5	4274.6	4218.4	4148.2	4014.9
145°	4232.4	4239.5	4211.4	4183.3	4176.3	4134.2	4141.2	4099.1	4064.0	4014.9	3909.6
147.5°	4120.1	4120.1	4078.0	4042.9	4014.9	4007.8	3972.7	3979.8	3923.6	3853.4	3783.2
150°	3972.7	3958.7	3916.6	3895.5	3874.5	3874.5	3839.4	3818.3	3776.2	3755.2	3663.9
152.5°	3867.5	3832.4	3811.3	3769.2	3769.2	3734.1	3706.0	3692.0	3656.9	3614.8	3544.6
155°	3720.1	3706.0	3677.9	3670.9	3642.9	3614.8	3565.6	3558.6	3537.6	3495.5	3432.3
157.5°	3600.7	3621.8	3579.7	3558.6	3516.5	3509.5	3460.4	3467.4	3425.3	3397.2	3341.0
160°	3544.6	3509.5	3467.4	3460.4	3446.3	3390.2	3383.1	3362.1	3334.0	3313.0	3242.8
162.5°	3418.2	3411.2	3390.2	3376.1	3327.0	3327.0	3242.8	3277.9	3256.8	3235.7	3200.7
165°	3348.1	3355.1	3305.9	3291.9	3277.9	3249.8	3228.7	3207.7	3186.6	3172.6	3137.5
167.5°	3256.8	3242.8	3228.7	3200.7	3207.7	3186.6	3165.6	3151.5	3137.5	3123.4	3095.4
170°	3179.6	3172.6	3158.5	3137.5	3144.5	3123.4	3123.4	3095.4	3088.4	3081.3	3046.2
172.5°	3116.4	3116.4	3102.4	3102.4	3095.4	3074.3	3060.3	3046.2	3046.2	3032.2	3025.2
175°	3053.3	3060.3	3053.3	3046.2	3046.2	3032.2	3032.2	3039.2	3025.2	3025.2	3004.1
177.5°	3004.1	3004.1	3004.1	3004.1	3004.1	3004.1	3004.1	2997.1	3004.1	2997.1	2976.0
180°	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1



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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°	91.2	98.3	105.3	112.3	133.4	126.3	147.4	154.4	168.5	196.5	203.6
95°	372.0	372.0	365.0	365.0	350.9	350.9	343.9	336.9	372.0	414.1	470.3
97.5°	765.1	652.8	596.6	575.6	568.5	561.5	547.5	526.4	540.5	575.6	645.7
100°	1291.5	1066.9	884.4	779.1	758.0	723.0	708.9	701.9	701.9	772.1	884.4
102.5°	1670.5	1340.6	1102.0	947.6	905.4	870.4	849.3	849.3	863.3	947.6	1073.9
105°	2112.7	1691.6	1326.6	1123.0	1087.9	1038.8	1003.7	1010.7	1024.8	1102.0	1214.3
107.5°	2646.2	2140.8	1705.6	1389.8	1312.5	1242.4	1186.2	1186.2	1193.2	1242.4	1326.6
110°	3446.3	2793.6	2140.8	1670.5	1544.2	1467.0	1333.6	1333.6	1326.6	1361.7	1417.8
112.5°	4057.0	3298.9	2554.9	1951.3	1775.8	1649.5	1509.1	1467.0	1467.0	1474.0	1509.1
115°	4422.0	3635.8	2842.7	2211.0	1979.4	1824.9	1649.5	1600.3	1579.3	1593.3	1579.3
117.5°	4632.5	3839.4	3088.4	2400.5	2182.9	2007.4	1789.8	1726.7	1691.6	1719.6	1712.6
120°	4737.8	4021.9	3284.9	2597.0	2372.4	2168.9	1937.2	1874.1	1846.0	1846.0	1853.0
122.5°	4751.8	4120.1	3397.2	2772.5	2547.9	2351.4	2112.7	2021.5	1993.4	2000.4	2000.4
125°	4702.7	4106.1	3502.5	2912.9	2695.3	2498.8	2253.1	2175.9	2112.7	2140.8	2147.8
127.5°	4625.5	4071.0	3565.6	3025.2	2828.6	2653.2	2428.6	2337.3	2281.2	2295.2	2288.2
130°	4513.2	4028.9	3621.8	3123.4	2955.0	2779.5	2583.0	2498.8	2421.5	2428.6	2435.6
132.5°	4400.9	4014.9	3649.9	3200.7	3060.3	2912.9	2716.3	2632.1	2561.9	2568.9	2568.9
135°	4281.6	3979.8	3614.8	3249.8	3179.6	3025.2	2863.7	2772.5	2716.3	2716.3	2702.3
137.5°	4155.2	3895.5	3642.9	3348.1	3249.8	3123.4	2962.0	2891.8	2835.7	2828.6	2821.6
140°	4042.9	3804.3	3607.8	3369.1	3298.9	3200.7	3067.3	3011.1	2933.9	2919.9	2962.0
142.5°	3930.6	3762.2	3642.9	3418.2	3348.1	3263.8	3165.6	3088.4	3032.2	3018.2	3011.1
145°	3818.3	3720.1	3586.7	3404.2	3376.1	3291.9	3186.6	3165.6	3102.4	3088.4	3088.4
147.5°	3706.0	3621.8	3523.5	3397.2	3397.2	3327.0	3277.9	3214.7	3165.6	3137.5	3137.5
150°	3607.8	3537.6	3488.4	3390.2	3383.1	3327.0	3284.9	3256.8	3200.7	3186.6	3179.6
152.5°	3516.5	3453.3	3411.2	3348.1	3341.0	3263.8	3277.9	3249.8	3193.6	3179.6	3179.6
155°	3404.2	3397.2	3348.1	3284.9	3313.0	3270.8	3235.7	3270.8	3186.6	3200.7	3200.7
157.5°	3327.0	3320.0	3313.0	3249.8	3256.8	3235.7	3214.7	3242.8	3172.6	3179.6	3179.6
160°	3242.8	3228.7	3228.7	3172.6	3214.7	3172.6	3179.6	3193.6	3151.5	3158.5	3179.6
162.5°	3200.7	3172.6	3172.6	3151.5	3165.6	3151.5	3116.4	3165.6	3158.5	3144.5	3151.5
165°	3130.5	3123.4	3137.5	3095.4	3130.5	3088.4	3102.4	3123.4	3109.4	3116.4	3123.4
167.5°	3088.4	3081.3	3088.4	3067.3	3088.4	3074.3	3067.3	3095.4	3081.3	3088.4	3095.4
170°	3053.3	3053.3	3060.3	3039.2	3060.3	3039.2	3060.3	3060.3	3053.3	3053.3	3067.3
172.5°	3039.2	3018.2	3039.2	3004.1	3039.2	2997.1	3011.1	3032.2	3025.2	3018.2	3018.2
175°	3011.1	3004.1	3025.2	2990.1	3011.1	2990.1	2990.1	3011.1	3004.1	2997.1	3025.2
177.5°	3011.1	2990.1	3011.1	2976.0	2997.1	2983.1	2983.1	3004.1	2990.1	2990.1	3011.1
180°	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1



TEST NUMBER: P508472

CATALOG NUMBER: ASYX-X-S4-X-U-W-L30-1-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°	203.6	238.6	245.7	266.7	259.7	217.6	189.5	154.4	133.4
95°	533.4	589.6	645.7	638.7	659.8	617.7	575.6	554.5	526.4
97.5°	715.9	807.2	863.3	863.3	870.4	842.3	828.2	842.3	807.2
100°	1010.7	1073.9	1095.0	1087.9	1066.9	1017.8	989.7	975.6	954.6
102.5°	1186.2	1256.4	1277.5	1263.4	1249.4	1228.3	1200.2	1186.2	1179.2
105°	1305.5	1368.7	1396.8	1389.8	1382.7	1347.6	1291.5	1312.5	1305.5
107.5°	1417.8	1459.9	1488.0	1467.0	1459.9	1438.9	1403.8	1424.9	1396.8
110°	1488.0	1523.1	1530.1	1530.1	1516.1	1495.0	1467.0	1474.0	1452.9
112.5°	1544.2	1565.2	1565.2	1565.2	1551.2	1523.1	1509.1	1495.0	1495.0
115°	1607.3	1593.3	1600.3	1600.3	1586.3	1544.2	1523.1	1509.1	1495.0
117.5°	1719.6	1698.6	1677.5	1677.5	1642.4	1614.4	1593.3	1572.3	1551.2
120°	1824.9	1810.9	1796.9	1775.8	1754.7	1719.6	1684.6	1656.5	1642.4
122.5°	1965.3	1930.2	1909.2	1923.2	1881.1	1846.0	1803.9	1775.8	1740.7
125°	2119.7	2091.7	2056.6	2042.5	2007.4	1979.4	1944.3	1916.2	1874.1
127.5°	2253.1	2211.0	2196.9	2189.9	2147.8	2112.7	2056.6	2035.5	2035.5
130°	2407.5	2358.4	2365.4	2330.3	2295.2	2239.1	2182.9	2182.9	2175.9
132.5°	2554.9	2498.8	2491.7	2477.7	2435.6	2393.5	2358.4	2351.4	2323.3
135°	2674.2	2632.1	2625.1	2611.1	2576.0	2533.9	2477.7	2491.7	2435.6
137.5°	2779.5	2758.5	2751.4	2723.4	2688.3	2681.3	2618.1	2611.1	2576.0
140°	2898.8	2856.7	2884.8	2849.7	2807.6	2793.6	2709.3	2723.4	2723.4
142.5°	2983.1	2962.0	2955.0	2941.0	2912.9	2884.8	2863.7	2835.7	2849.7
145°	3067.3	3053.3	3039.2	3039.2	2997.1	2983.1	2941.0	2941.0	2919.9
147.5°	3137.5	3109.4	3109.4	3095.4	3074.3	3060.3	3018.2	3039.2	3004.1
150°	3137.5	3151.5	3137.5	3137.5	3144.5	3137.5	3102.4	3088.4	3095.4
152.5°	3193.6	3172.6	3158.5	3186.6	3151.5	3172.6	3123.4	3137.5	3123.4
155°	3165.6	3179.6	3186.6	3172.6	3172.6	3172.6	3151.5	3186.6	3151.5
157.5°	3193.6	3179.6	3186.6	3179.6	3165.6	3186.6	3165.6	3193.6	3172.6
160°	3179.6	3165.6	3179.6	3172.6	3158.5	3186.6	3186.6	3207.7	3179.6
162.5°	3130.5	3144.5	3179.6	3158.5	3158.5	3207.7	3130.5	3200.7	3158.5
165°	3116.4	3123.4	3137.5	3151.5	3123.4	3144.5	3144.5	3151.5	3130.5
167.5°	3102.4	3074.3	3102.4	3102.4	3109.4	3109.4	3109.4	3123.4	3095.4
170°	3074.3	3018.2	3074.3	3074.3	3060.3	3060.3	3053.3	3095.4	3060.3
172.5°	3025.2	3011.1	3032.2	3032.2	3046.2	3039.2	3039.2	3046.2	3025.2
175°	2997.1	3004.1	3032.2	3011.1	3004.1	3011.1	2990.1	3011.1	2990.1
177.5°	2983.1	2983.1	2990.1	2997.1	3011.1	2997.1	2976.0	2997.1	2976.0
180°	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1

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