

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: P508393

Luminaire Tested: **ASYX-X-L5-X-U-W-L35-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508393
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-L5-X-U-W-L35-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(5) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

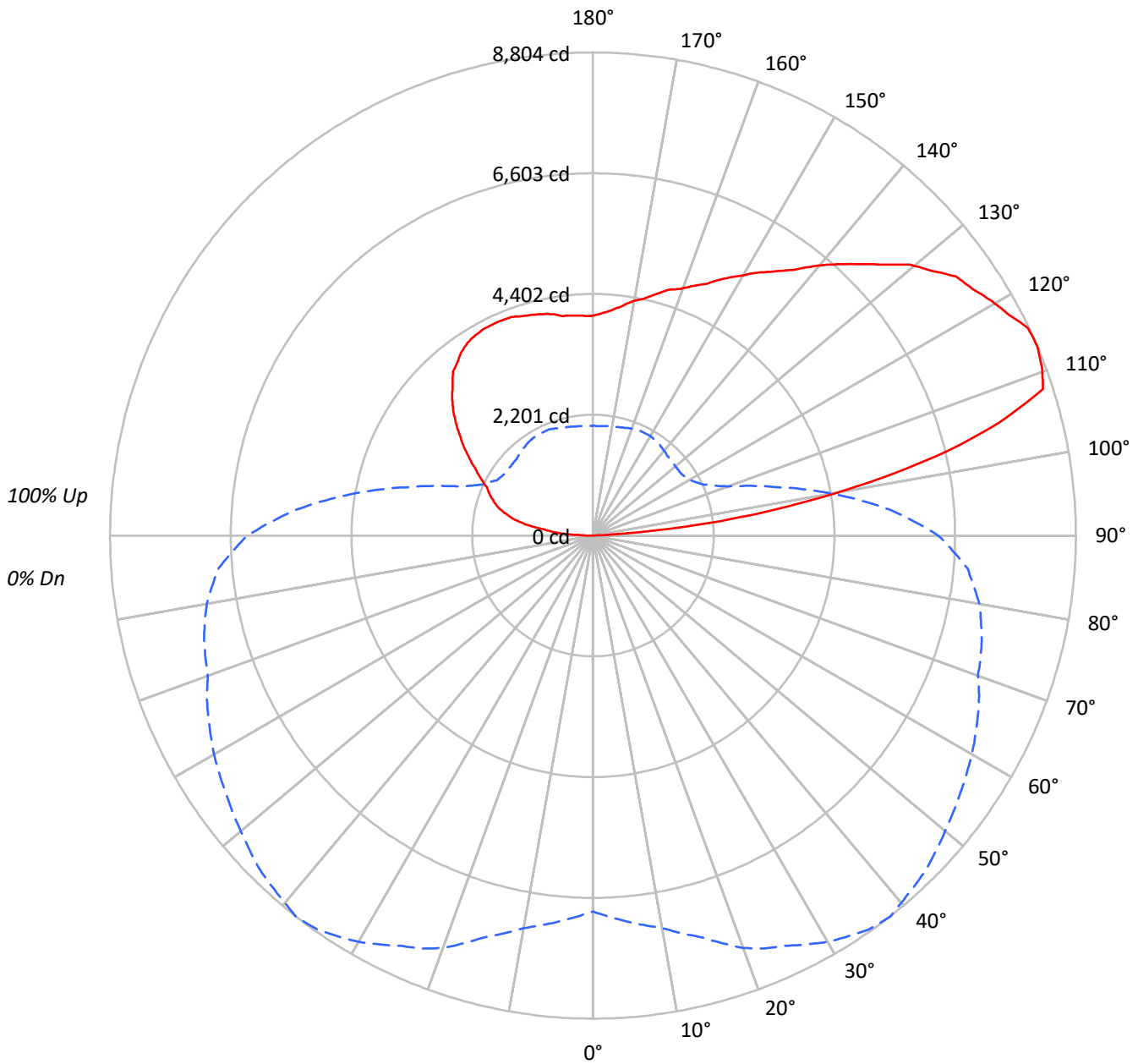
Lumens per Lamp: N/A
Luminaire Lumens: 26468.6 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
N/A
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
CIE Type: Indirect

Input Watts (W): 270.1
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: P508393
CATALOG NUMBER: ASYX-X-L5-X-U-W-L35-1-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
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°	40962	45597	57964
100°	111709	86497	52751
105°	111901	92382	48404
110°	124655	113627	40764
115°	131483	113951	33946
120°	123257	100357	31521
125°	107681	85840	31354
130°	92628	71253	32483
135°	78583	61152	33052
140°	65943	52051	34115
145°	55747	45798	34205
150°	47442	40598	34298
155°	41543	36341	33368
160°	37415	33114	32470
165°	34307	31169	31100
170°	31871	29682	29819
175°	29816	28937	28802



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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°	1083.3	4.1
100°-110°	3921.3	14.8
110°-120°	5286.0	20.0
120°-130°	5031.1	19.0
130°-140°	4191.8	15.8
140°-150°	3175.5	12.0
150°-160°	2161.1	8.2
160°-170°	1227.9	4.6
170°-180°	390.6	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°	10290.6	38.9
90°-150°	22689.0	85.7
90°-180°	26469.0	100.0
0°-180°	26468.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	498	1624	554	554	704	885
105°	4036	8241	3332	1474	1746	4378
115°	7744	8429	6711	2131	1999	7466
125°	8607	7706	6861	2863	2506	7682
135°	7744	6636	6026	3632	3257	6000
145°	6364	5660	5228	4130	3905	4026
155°	5247	4975	4590	4280	4214	2451
165°	4618	4477	4196	4167	4186	1318
175°	4139	4083	4017	4008	3998	403
180°	3998	3998	3998	3998	3998	



TEST NUMBER: P508393

CATALOG NUMBER: ASYX-X-L5-X-U-W-L35-1-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°	75.1	75.1	75.1	84.5	93.9	103.2	103.2	131.4	168.9	178.3	206.5
95°	497.5	572.5	854.1	985.5	994.9	1023.1	1023.1	1295.3	1614.4	1689.5	1764.6
97.5°	1332.8	1426.7	1727.0	1961.7	2299.6	2393.4	2506.1	2731.3	3078.6	3285.1	3388.3
100°	2703.2	2721.9	2881.5	3097.4	3463.4	3669.9	3923.3	4542.8	4852.6	4852.6	4739.9
102.5°	3425.9	3444.7	3585.5	3791.9	4223.7	4533.4	4824.4	5575.3	6204.1	6438.8	6532.7
105°	4036.0	4101.7	4251.9	4542.8	5068.4	5415.7	5687.9	6542.0	7274.2	7677.7	7987.5
107.5°	4815.0	4918.3	5171.7	5509.6	6138.4	6542.0	6889.3	7583.9	8222.1	8625.7	8616.3
110°	5941.3	5997.7	6260.5	6701.6	7246.0	7565.1	7781.0	8269.1	8700.8	8738.4	8757.1
112.5°	6851.8	7058.3	7264.8	7574.5	7996.9	8147.0	8250.3	8550.6	8766.5	8804.1	8738.4
115°	7743.5	7818.5	7921.8	8128.3	8325.4	8475.6	8494.3	8653.9	8700.8	8785.3	8635.1
117.5°	8297.2	8334.8	8344.2	8419.2	8522.5	8607.0	8588.2	8635.1	8691.4	8578.8	8503.7
120°	8588.2	8625.7	8560.0	8588.2	8616.3	8635.1	8597.6	8616.3	8513.1	8428.6	8344.2
122.5°	8700.8	8691.4	8625.7	8625.7	8588.2	8578.8	8503.7	8438.0	8362.9	8250.3	8147.0
125°	8607.0	8644.5	8560.0	8494.3	8409.9	8550.6	8362.9	8297.2	8165.8	8128.3	7931.2
127.5°	8484.9	8560.0	8419.2	8353.5	8269.1	8240.9	8128.3	8034.4	7940.6	7837.3	7705.9
130°	8297.2	8325.4	8194.0	8128.3	8043.8	7959.3	7940.6	7734.1	7668.4	7602.7	7424.3
132.5°	8109.5	8062.6	7931.2	7846.7	7743.5	7696.5	7649.6	7471.3	7377.4	7236.6	7142.7
135°	7743.5	7752.8	7630.8	7537.0	7396.2	7396.2	7311.7	7180.3	7058.3	6936.3	6814.2
137.5°	7396.2	7461.9	7283.5	7199.1	7124.0	7067.7	6955.0	6833.0	6701.6	6654.7	6560.8
140°	7039.5	7048.9	6908.1	6833.0	6776.7	6673.4	6607.7	6495.1	6448.2	6363.7	6232.3
142.5°	6729.8	6692.2	6579.6	6495.1	6438.8	6363.7	6326.2	6213.5	6138.4	6063.4	6016.4
145°	6363.7	6354.3	6222.9	6166.6	6119.7	6091.5	6025.8	5941.3	5903.8	5838.1	5838.1
147.5°	6054.0	6007.0	5932.0	5866.3	5809.9	5781.8	5781.8	5631.6	5659.8	5650.4	5565.9
150°	5725.5	5716.1	5612.8	5584.7	5537.7	5556.5	5537.7	5472.0	5472.0	5434.5	5378.2
152.5°	5462.7	5462.7	5378.2	5359.4	5340.6	5331.2	5293.7	5265.5	5265.5	5256.2	5190.5
155°	5246.8	5246.8	5181.1	5171.7	5143.5	5134.1	5115.4	5087.2	5068.4	5049.7	4993.4
157.5°	5068.4	5059.1	4984.0	4993.4	4965.2	4965.2	4955.8	4899.5	4918.3	4908.9	4871.3
160°	4899.5	4890.1	4815.0	4843.2	4824.4	4824.4	4824.4	4786.9	4768.1	4768.1	4683.6
162.5°	4749.3	4768.1	4693.0	4683.6	4693.0	4693.0	4655.5	4627.3	4655.5	4683.6	4599.1
165°	4617.9	4599.1	4571.0	4561.6	4542.8	4524.1	4542.8	4524.1	4505.3	4542.8	4514.7
167.5°	4486.5	4505.3	4449.0	4430.2	4430.2	4467.7	4439.6	4402.0	4420.8	4411.4	4355.1
170°	4373.9	4392.6	4317.6	4317.6	4317.6	4317.6	4289.4	4261.2	4308.2	4326.9	4261.2
172.5°	4261.2	4289.4	4223.7	4214.3	4204.9	4223.7	4204.9	4176.8	4233.1	4204.9	4176.8
175°	4139.2	4186.2	4120.5	4111.1	4129.8	4129.8	4111.1	4092.3	4129.8	4111.1	4092.3
177.5°	4082.9	4082.9	4017.2	4026.6	4026.6	4017.2	4045.4	4036.0	4045.4	4045.4	4082.9
180°	3998.4	3998.4	3998.4	3998.4	3998.4	3998.4	3998.4	3998.4	3998.4	3998.4	3998.4



TEST NUMBER: P508393

CATALOG NUMBER: ASYX-X-L5-X-U-W-L35-1-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°	215.9	253.4	272.2	150.2	150.2	168.9	159.6	140.8	122.0	112.6	112.6
95°	1623.8	1539.3	1586.2	1426.7	1239.0	1088.8	1079.4	1088.8	750.9	563.2	553.8
97.5°	3491.6	3454.0	3163.1	2712.6	2581.2	2590.5	2431.0	2018.0	1689.5	1445.4	1248.3
100°	4542.8	4420.8	4289.4	4383.3	4120.5	3914.0	3623.0	3256.9	2872.1	2543.6	2093.1
102.5°	6476.3	6288.6	5809.9	5284.3	4758.7	4571.0	4355.1	3942.1	3538.5	3153.7	2693.8
105°	8240.9	7921.8	7114.6	6363.7	5650.4	5434.5	5152.9	4693.0	4223.7	3838.9	3332.0
107.5°	8663.3	8428.6	7978.1	7471.3	6851.8	6495.1	6232.3	5734.8	5293.7	4768.1	4186.2
110°	8700.8	8466.2	8184.6	7837.3	7537.0	7330.5	7161.5	6786.1	6467.0	6007.0	5415.7
112.5°	8597.6	8381.7	8175.2	7978.1	7743.5	7621.4	7471.3	7339.9	7152.1	6851.8	6298.0
115°	8428.6	8240.9	8053.2	7884.2	7771.6	7715.3	7640.2	7537.0	7433.7	7208.4	6711.0
117.5°	8269.1	8053.2	7884.2	7827.9	7724.7	7640.2	7630.8	7612.0	7546.3	7433.7	6955.0
120°	8109.5	7940.6	7771.6	7649.6	7612.0	7602.7	7602.7	7546.3	7565.1	7471.3	6992.6
122.5°	7856.1	7724.7	7583.9	7527.6	7368.0	7405.6	7424.3	7386.8	7461.9	7396.2	6945.6
125°	7705.9	7574.5	7396.2	7311.7	7283.5	7246.0	7283.5	7217.8	7255.4	7208.4	6861.2
127.5°	7452.5	7283.5	7189.7	7124.0	7105.2	6973.8	7039.5	7048.9	7058.3	6983.2	6673.4
130°	7180.3	7086.4	6870.6	6898.7	6898.7	6851.8	6861.2	6823.6	6804.9	6739.1	6382.5
132.5°	6983.2	6861.2	6720.4	6682.8	6645.3	6635.9	6635.9	6570.2	6570.2	6485.7	6251.1
135°	6635.9	6551.4	6495.1	6457.6	6448.2	6410.6	6410.6	6344.9	6335.6	6260.5	6025.8
137.5°	6391.9	6307.4	6260.5	6232.3	6204.1	6138.4	6176.0	6119.7	6063.4	6044.6	5819.3
140°	6147.8	6082.1	6044.6	5997.7	5988.3	5950.7	5950.7	5885.0	5866.3	5781.8	5556.5
142.5°	5941.3	5903.8	5828.7	5809.9	5744.2	5753.6	5706.7	5716.1	5641.0	5547.1	5368.8
145°	5659.8	5669.1	5631.6	5594.1	5584.7	5528.4	5537.7	5481.4	5434.5	5368.8	5228.0
147.5°	5509.6	5509.6	5453.3	5406.3	5368.8	5359.4	5312.5	5321.9	5246.8	5152.9	5059.1
150°	5312.5	5293.7	5237.4	5209.2	5181.1	5181.1	5134.1	5106.0	5049.7	5021.5	4899.5
152.5°	5171.7	5124.8	5096.6	5040.3	5040.3	4993.4	4955.8	4937.0	4890.1	4833.8	4739.9
155°	4974.6	4955.8	4918.3	4908.9	4871.3	4833.8	4768.1	4758.7	4730.5	4674.2	4589.8
157.5°	4815.0	4843.2	4786.9	4758.7	4702.4	4693.0	4627.3	4636.7	4580.4	4542.8	4467.7
160°	4739.9	4693.0	4636.7	4627.3	4608.5	4533.4	4524.1	4495.9	4458.4	4430.2	4336.3
162.5°	4571.0	4561.6	4533.4	4514.7	4449.0	4449.0	4336.3	4383.3	4355.1	4326.9	4280.0
165°	4477.1	4486.5	4420.8	4402.0	4383.3	4345.7	4317.6	4289.4	4261.2	4242.5	4195.5
167.5°	4355.1	4336.3	4317.6	4280.0	4289.4	4261.2	4233.1	4214.3	4195.5	4176.8	4139.2
170°	4251.9	4242.5	4223.7	4195.5	4204.9	4176.8	4176.8	4139.2	4129.8	4120.5	4073.5
172.5°	4167.4	4167.4	4148.6	4148.6	4139.2	4111.1	4092.3	4073.5	4073.5	4054.8	4045.4
175°	4082.9	4092.3	4082.9	4073.5	4073.5	4054.8	4054.8	4064.1	4045.4	4045.4	4017.2
177.5°	4017.2	4017.2	4017.2	4017.2	4017.2	4017.2	4017.2	4007.8	4017.2	4007.8	3979.7
180°	3998.4	3998.4	3998.4	3998.4	3998.4	3998.4	3998.4	3998.4	3998.4	3998.4	3998.4



TEST NUMBER: P508393

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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°	122.0	131.4	140.8	150.2	178.3	168.9	197.1	206.5	225.3	262.8	272.2
95°	497.5	497.5	488.1	488.1	469.3	469.3	459.9	450.5	497.5	553.8	628.9
97.5°	1023.1	872.9	797.8	769.7	760.3	750.9	732.1	704.0	722.7	769.7	863.5
100°	1727.0	1426.7	1182.6	1041.8	1013.7	966.8	948.0	938.6	938.6	1032.5	1182.6
102.5°	2233.9	1792.7	1473.6	1267.1	1210.8	1163.9	1135.7	1135.7	1154.5	1267.1	1436.1
105°	2825.2	2262.0	1774.0	1501.8	1454.8	1389.1	1342.2	1351.6	1370.4	1473.6	1623.8
107.5°	3538.5	2862.7	2280.8	1858.4	1755.2	1661.3	1586.2	1586.2	1595.6	1661.3	1774.0
110°	4608.5	3735.6	2862.7	2233.9	2064.9	1961.7	1783.3	1783.3	1774.0	1820.9	1896.0
112.5°	5425.1	4411.4	3416.5	2609.3	2374.7	2205.7	2018.0	1961.7	1961.7	1971.1	2018.0
115°	5913.2	4861.9	3801.3	2956.6	2646.9	2440.4	2205.7	2140.0	2111.9	2130.6	2111.9
117.5°	6194.8	5134.1	4129.8	3210.0	2919.0	2684.4	2393.4	2309.0	2262.0	2299.6	2290.2
120°	6335.6	5378.2	4392.6	3472.8	3172.5	2900.3	2590.5	2506.1	2468.5	2468.5	2477.9
122.5°	6354.3	5509.6	4542.8	3707.5	3407.1	3144.3	2825.2	2703.2	2665.6	2675.0	2675.0
125°	6288.6	5490.8	4683.6	3895.2	3604.2	3341.4	3012.9	2909.7	2825.2	2862.7	2872.1
127.5°	6185.4	5443.9	4768.1	4045.4	3782.6	3547.9	3247.6	3125.5	3050.5	3069.2	3059.8
130°	6035.2	5387.6	4843.2	4176.8	3951.5	3716.9	3454.0	3341.4	3238.2	3247.6	3256.9
132.5°	5885.0	5368.8	4880.7	4280.0	4092.3	3895.2	3632.4	3519.8	3425.9	3435.3	3435.3
135°	5725.5	5321.9	4833.8	4345.7	4251.9	4045.4	3829.5	3707.5	3632.4	3632.4	3613.6
137.5°	5556.5	5209.2	4871.3	4477.1	4345.7	4176.8	3960.9	3867.0	3791.9	3782.6	3773.2
140°	5406.3	5087.2	4824.4	4505.3	4411.4	4280.0	4101.7	4026.6	3923.3	3904.6	3960.9
142.5°	5256.2	5030.9	4871.3	4571.0	4477.1	4364.5	4233.1	4129.8	4054.8	4036.0	4026.6
145°	5106.0	4974.6	4796.2	4552.2	4514.7	4402.0	4261.2	4233.1	4148.6	4129.8	4129.8
147.5°	4955.8	4843.2	4711.8	4542.8	4542.8	4449.0	4383.3	4298.8	4233.1	4195.5	4195.5
150°	4824.4	4730.5	4664.8	4533.4	4524.1	4449.0	4392.6	4355.1	4280.0	4261.2	4251.9
152.5°	4702.4	4617.9	4561.6	4477.1	4467.7	4364.5	4383.3	4345.7	4270.6	4251.9	4251.9
155°	4552.2	4542.8	4477.1	4392.6	4430.2	4373.9	4326.9	4373.9	4261.2	4280.0	4280.0
157.5°	4449.0	4439.6	4430.2	4345.7	4355.1	4326.9	4298.8	4336.3	4242.5	4251.9	4251.9
160°	4336.3	4317.6	4317.6	4242.5	4298.8	4242.5	4251.9	4270.6	4214.3	4223.7	4251.9
162.5°	4280.0	4242.5	4242.5	4214.3	4233.1	4214.3	4167.4	4233.1	4223.7	4204.9	4214.3
165°	4186.2	4176.8	4195.5	4139.2	4186.2	4129.8	4148.6	4176.8	4158.0	4167.4	4176.8
167.5°	4129.8	4120.5	4129.8	4101.7	4129.8	4111.1	4101.7	4139.2	4120.5	4129.8	4139.2
170°	4082.9	4082.9	4092.3	4064.1	4092.3	4064.1	4092.3	4092.3	4082.9	4082.9	4101.7
172.5°	4064.1	4036.0	4064.1	4017.2	4064.1	4007.8	4026.6	4054.8	4045.4	4036.0	4036.0
175°	4026.6	4017.2	4045.4	3998.4	4026.6	3998.4	3998.4	4026.6	4017.2	4007.8	4045.4
177.5°	4026.6	3998.4	4026.6	3979.7	4007.8	3989.1	3989.1	4017.2	3998.4	3998.4	4026.6
180°	3998.4	3998.4	3998.4	3998.4	3998.4	3998.4	3998.4	3998.4	3998.4	3998.4	3998.4



TEST NUMBER: P508393

CATALOG NUMBER: ASYX-X-L5-X-U-W-L35-1-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°	272.2	319.1	328.5	356.7	347.3	291.0	253.4	206.5	178.3
95°	713.3	788.4	863.5	854.1	882.3	826.0	769.7	741.5	704.0
97.5°	957.4	1079.4	1154.5	1154.5	1163.9	1126.3	1107.5	1126.3	1079.4
100°	1351.6	1436.1	1464.2	1454.8	1426.7	1361.0	1323.4	1304.7	1276.5
102.5°	1586.2	1680.1	1708.3	1689.5	1670.7	1642.6	1605.0	1586.2	1576.8
105°	1745.8	1830.3	1867.8	1858.4	1849.0	1802.1	1727.0	1755.2	1745.8
107.5°	1896.0	1952.3	1989.8	1961.7	1952.3	1924.1	1877.2	1905.4	1867.8
110°	1989.8	2036.8	2046.1	2046.1	2027.4	1999.2	1961.7	1971.1	1942.9
112.5°	2064.9	2093.1	2093.1	2093.1	2074.3	2036.8	2018.0	1999.2	1999.2
115°	2149.4	2130.6	2140.0	2140.0	2121.2	2064.9	2036.8	2018.0	1999.2
117.5°	2299.6	2271.4	2243.3	2243.3	2196.3	2158.8	2130.6	2102.5	2074.3
120°	2440.4	2421.6	2402.8	2374.7	2346.5	2299.6	2252.6	2215.1	2196.3
122.5°	2628.1	2581.2	2553.0	2571.8	2515.4	2468.5	2412.2	2374.7	2327.7
125°	2834.6	2797.0	2750.1	2731.3	2684.4	2646.9	2599.9	2562.4	2506.1
127.5°	3012.9	2956.6	2937.8	2928.4	2872.1	2825.2	2750.1	2721.9	2721.9
130°	3219.4	3153.7	3163.1	3116.2	3069.2	2994.1	2919.0	2919.0	2909.7
132.5°	3416.5	3341.4	3332.0	3313.3	3256.9	3200.6	3153.7	3144.3	3106.8
135°	3576.1	3519.8	3510.4	3491.6	3444.7	3388.3	3313.3	3332.0	3256.9
137.5°	3716.9	3688.7	3679.3	3641.8	3594.8	3585.5	3501.0	3491.6	3444.7
140°	3876.4	3820.1	3857.6	3810.7	3754.4	3735.6	3623.0	3641.8	3641.8
142.5°	3989.1	3960.9	3951.5	3932.7	3895.2	3857.6	3829.5	3791.9	3810.7
145°	4101.7	4082.9	4064.1	4064.1	4007.8	3989.1	3932.7	3932.7	3904.6
147.5°	4195.5	4158.0	4158.0	4139.2	4111.1	4092.3	4036.0	4064.1	4017.2
150°	4195.5	4214.3	4195.5	4195.5	4204.9	4195.5	4148.6	4129.8	4139.2
152.5°	4270.6	4242.5	4223.7	4261.2	4214.3	4242.5	4176.8	4195.5	4176.8
155°	4233.1	4251.9	4261.2	4242.5	4242.5	4242.5	4214.3	4261.2	4214.3
157.5°	4270.6	4251.9	4261.2	4251.9	4233.1	4261.2	4233.1	4270.6	4242.5
160°	4251.9	4233.1	4251.9	4242.5	4223.7	4261.2	4261.2	4289.4	4251.9
162.5°	4186.2	4204.9	4251.9	4223.7	4223.7	4289.4	4186.2	4280.0	4223.7
165°	4167.4	4176.8	4195.5	4214.3	4176.8	4204.9	4204.9	4214.3	4186.2
167.5°	4148.6	4111.1	4148.6	4148.6	4158.0	4158.0	4158.0	4176.8	4139.2
170°	4111.1	4036.0	4111.1	4111.1	4092.3	4092.3	4082.9	4139.2	4092.3
172.5°	4045.4	4026.6	4054.8	4054.8	4073.5	4064.1	4064.1	4073.5	4045.4
175°	4007.8	4017.2	4054.8	4026.6	4017.2	4026.6	3998.4	4026.6	3998.4
177.5°	3989.1	3989.1	3998.4	4007.8	4026.6	4007.8	3979.7	4007.8	3979.7
180°	3998.4	3998.4	3998.4	3998.4	3998.4	3998.4	3998.4	3998.4	3998.4

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