

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: P508392

Luminaire Tested: **ASYX-X-L5-X-U-W-L30-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P508392  
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-L30-1-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: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

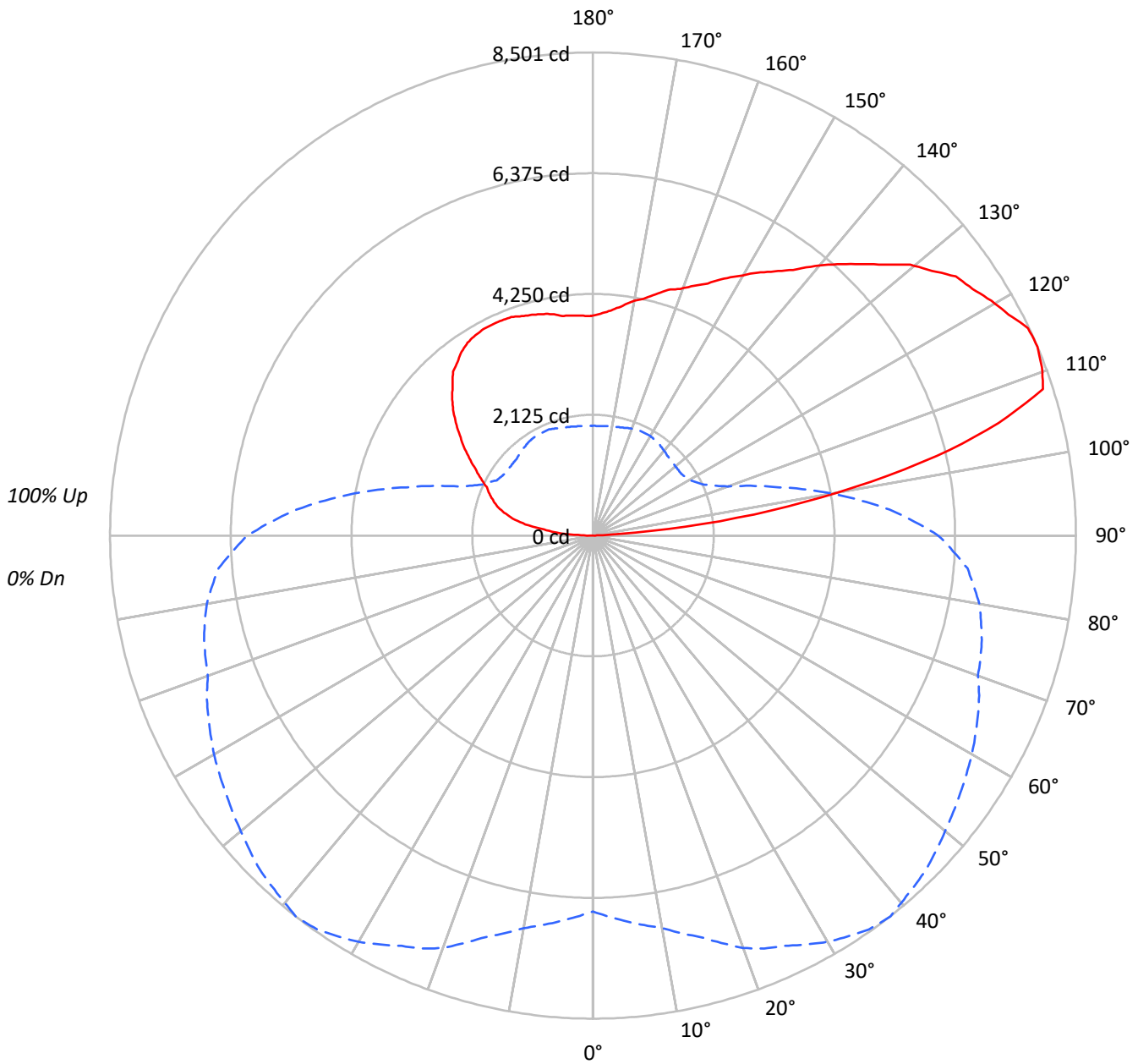
Lumens per Lamp: N/A  
Luminaire Lumens: 25555.8 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
N/A  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
CIE Type: Indirect

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: P508392  
CATALOG NUMBER: ASYX-X-L5-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				
RC	80				70				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	
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°	39545	44024	55963
100°	107857	83513	50933
105°	108042	89196	46734
110°	120358	109710	39358
115°	126947	110022	32776
120°	119006	96895	30435
125°	103968	82880	30271
130°	89434	68796	31362
135°	75873	59043	31912
140°	63669	50256	32938
145°	53825	44219	33025
150°	45805	39197	33115
155°	40111	35088	32217
160°	36124	31972	31349
165°	33124	30094	30027
170°	30772	28659	28791
175°	28788	27940	27809



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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°	1046.0	4.1
100°-110°	3786.1	14.8
110°-120°	5103.7	20.0
120°-130°	4857.6	19.0
130°-140°	4047.2	15.8
140°-150°	3066.0	12.0
150°-160°	2086.5	8.2
160°-170°	1185.5	4.6
170°-180°	377.1	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°	9935.8	38.9
90°-150°	21906.6	85.7
90°-180°	25556.0	100.0
0°-180°	25555.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	480	1568	535	535	680	854
105°	3897	7957	3217	1423	1686	4227
115°	7476	8138	6480	2057	1930	7209
125°	8310	7440	6625	2764	2420	7417
135°	7476	6407	5818	3507	3145	5793
145°	6144	5465	5048	3987	3770	3887
155°	5066	4803	4432	4132	4069	2367
165°	4459	4323	4051	4024	4042	1272
175°	3996	3942	3879	3870	3861	389
180°	3861	3861	3861	3861	3861	



TEST NUMBER: P508392

CATALOG NUMBER: ASYX-X-L5-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°	72.5	72.5	72.5	81.6	90.6	99.7	99.7	126.9	163.1	172.2	199.4
95°	480.3	552.8	824.7	951.5	960.6	987.8	987.8	1250.6	1558.7	1631.2	1703.7
97.5°	1286.9	1377.5	1667.5	1894.0	2220.3	2310.9	2419.6	2637.1	2972.4	3171.8	3271.5
100°	2610.0	2628.1	2782.1	2990.6	3344.0	3543.4	3788.1	4386.2	4685.2	4685.2	4576.5
102.5°	3307.8	3325.9	3461.8	3661.2	4078.1	4377.1	4658.0	5383.0	5990.2	6216.8	6307.4
105°	3896.8	3960.2	4105.2	4386.2	4893.7	5229.0	5491.8	6316.5	7023.3	7413.0	7712.1
107.5°	4649.0	4748.7	4993.4	5319.6	5926.8	6316.5	6651.8	7322.4	7938.6	8328.3	8319.2
110°	5736.5	5790.8	6044.6	6470.5	6996.1	7304.3	7512.7	7983.9	8400.8	8437.0	8455.2
112.5°	6615.5	6814.9	7014.3	7313.3	7721.1	7866.1	7965.8	8255.8	8464.2	8500.5	8437.0
115°	7476.4	7548.9	7648.6	7848.0	8038.3	8183.3	8201.4	8355.5	8400.8	8482.4	8337.4
117.5°	8011.1	8047.4	8056.4	8128.9	8228.6	8310.2	8292.0	8337.4	8391.7	8283.0	8210.5
120°	8292.0	8328.3	8264.9	8292.0	8319.2	8337.4	8301.1	8319.2	8219.5	8138.0	8056.4
122.5°	8400.8	8391.7	8328.3	8328.3	8292.0	8283.0	8210.5	8147.0	8074.5	7965.8	7866.1
125°	8310.2	8346.4	8264.9	8201.4	8119.9	8255.8	8074.5	8011.1	7884.2	7848.0	7657.7
127.5°	8192.4	8264.9	8128.9	8065.5	7983.9	7956.7	7848.0	7757.4	7666.7	7567.1	7440.2
130°	8011.1	8038.3	7911.4	7848.0	7766.4	7684.9	7666.7	7467.4	7403.9	7340.5	7168.3
132.5°	7829.9	7784.6	7657.7	7576.1	7476.4	7431.1	7385.8	7213.6	7123.0	6987.1	6896.4
135°	7476.4	7485.5	7367.7	7277.1	7141.1	7141.1	7059.6	6932.7	6814.9	6697.1	6579.3
137.5°	7141.1	7204.6	7032.4	6950.8	6878.3	6823.9	6715.2	6597.4	6470.5	6425.2	6334.6
140°	6796.8	6805.8	6669.9	6597.4	6543.0	6443.3	6379.9	6271.1	6225.8	6144.3	6017.4
142.5°	6497.7	6461.5	6352.7	6271.1	6216.8	6144.3	6108.0	5999.3	5926.8	5854.3	5809.0
145°	6144.3	6135.2	6008.3	5954.0	5908.6	5881.5	5818.0	5736.5	5700.2	5636.8	5636.8
147.5°	5845.2	5799.9	5727.4	5664.0	5609.6	5582.4	5582.4	5437.4	5464.6	5455.5	5374.0
150°	5528.0	5519.0	5419.3	5392.1	5346.8	5364.9	5346.8	5283.3	5283.3	5247.1	5192.7
152.5°	5274.3	5274.3	5192.7	5174.6	5156.5	5147.4	5111.2	5084.0	5084.0	5074.9	5011.5
155°	5065.9	5065.9	5002.4	4993.4	4966.2	4957.1	4939.0	4911.8	4893.7	4875.5	4821.2
157.5°	4893.7	4884.6	4812.1	4821.2	4794.0	4794.0	4784.9	4730.5	4748.7	4739.6	4703.4
160°	4730.5	4721.5	4649.0	4676.2	4658.0	4658.0	4658.0	4621.8	4603.7	4603.7	4522.1
162.5°	4585.5	4603.7	4531.2	4522.1	4531.2	4531.2	4494.9	4467.7	4494.9	4522.1	4440.5
165°	4458.7	4440.5	4413.4	4404.3	4386.2	4368.1	4386.2	4368.1	4349.9	4386.2	4359.0
167.5°	4331.8	4349.9	4295.6	4277.4	4277.4	4313.7	4286.5	4250.2	4268.4	4259.3	4204.9
170°	4223.1	4241.2	4168.7	4168.7	4168.7	4168.7	4141.5	4114.3	4159.6	4177.7	4114.3
172.5°	4114.3	4141.5	4078.1	4069.0	4059.9	4078.1	4059.9	4032.7	4087.1	4059.9	4032.7
175°	3996.5	4041.8	3978.4	3969.3	3987.4	3987.4	3969.3	3951.2	3987.4	3969.3	3951.2
177.5°	3942.1	3942.1	3878.7	3887.7	3887.7	3878.7	3905.9	3896.8	3905.9	3905.9	3942.1
180°	3860.6	3860.6	3860.6	3860.6	3860.6	3860.6	3860.6	3860.6	3860.6	3860.6	3860.6



TEST NUMBER: P508392

CATALOG NUMBER: ASYX-X-L5-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°	208.4	244.7	262.8	145.0	145.0	163.1	154.1	135.9	117.8	108.7	108.7
95°	1567.8	1486.2	1531.5	1377.5	1196.2	1051.2	1042.2	1051.2	725.0	543.7	534.7
97.5°	3371.2	3334.9	3054.0	2619.0	2492.1	2501.2	2347.1	1948.4	1631.2	1395.6	1205.3
100°	4386.2	4268.4	4141.5	4232.1	3978.4	3779.0	3498.1	3144.6	2773.1	2455.9	2020.9
102.5°	6253.0	6071.8	5609.6	5102.1	4594.6	4413.4	4204.9	3806.2	3416.5	3044.9	2600.9
105°	7956.7	7648.6	6869.3	6144.3	5455.5	5247.1	4975.2	4531.2	4078.1	3706.5	3217.1
107.5°	8364.5	8138.0	7703.0	7213.6	6615.5	6271.1	6017.4	5537.1	5111.2	4603.7	4041.8
110°	8400.8	8174.2	7902.4	7567.1	7277.1	7077.7	6914.6	6552.1	6244.0	5799.9	5229.0
112.5°	8301.1	8092.7	7893.3	7703.0	7476.4	7358.6	7213.6	7086.8	6905.5	6615.5	6080.8
115°	8138.0	7956.7	7775.5	7612.4	7503.6	7449.2	7376.7	7277.1	7177.4	6959.9	6479.6
117.5°	7983.9	7775.5	7612.4	7558.0	7458.3	7376.7	7367.7	7349.6	7286.1	7177.4	6715.2
120°	7829.9	7666.7	7503.6	7385.8	7349.6	7340.5	7340.5	7286.1	7304.3	7213.6	6751.4
122.5°	7585.2	7458.3	7322.4	7268.0	7113.9	7150.2	7168.3	7132.1	7204.6	7141.1	6706.1
125°	7440.2	7313.3	7141.1	7059.6	7032.4	6996.1	7032.4	6968.9	7005.2	6959.9	6624.6
127.5°	7195.5	7032.4	6941.8	6878.3	6860.2	6733.3	6796.8	6805.8	6814.9	6742.4	6443.3
130°	6932.7	6842.1	6633.6	6660.8	6660.8	6615.5	6624.6	6588.3	6570.2	6506.8	6162.4
132.5°	6742.4	6624.6	6488.6	6452.4	6416.1	6407.1	6407.1	6343.6	6343.6	6262.1	6035.5
135°	6407.1	6325.5	6271.1	6234.9	6225.8	6189.6	6189.6	6126.1	6117.1	6044.6	5818.0
137.5°	6171.5	6089.9	6044.6	6017.4	5990.2	5926.8	5963.0	5908.6	5854.3	5836.2	5618.7
140°	5935.8	5872.4	5836.2	5790.8	5781.8	5745.5	5745.5	5682.1	5664.0	5582.4	5364.9
142.5°	5736.5	5700.2	5627.7	5609.6	5546.2	5555.2	5509.9	5519.0	5446.5	5355.8	5183.7
145°	5464.6	5473.7	5437.4	5401.2	5392.1	5337.7	5346.8	5292.4	5247.1	5183.7	5047.7
147.5°	5319.6	5319.6	5265.2	5219.9	5183.7	5174.6	5129.3	5138.3	5065.9	4975.2	4884.6
150°	5129.3	5111.2	5056.8	5029.6	5002.4	5002.4	4957.1	4929.9	4875.5	4848.4	4730.5
152.5°	4993.4	4948.0	4920.9	4866.5	4866.5	4821.2	4784.9	4766.8	4721.5	4667.1	4576.5
155°	4803.0	4784.9	4748.7	4739.6	4703.4	4667.1	4603.7	4594.6	4567.4	4513.0	4431.5
157.5°	4649.0	4676.2	4621.8	4594.6	4540.2	4531.2	4467.7	4476.8	4422.4	4386.2	4313.7
160°	4576.5	4531.2	4476.8	4467.7	4449.6	4377.1	4368.1	4340.9	4304.6	4277.4	4186.8
162.5°	4413.4	4404.3	4377.1	4359.0	4295.6	4295.6	4186.8	4232.1	4204.9	4177.7	4132.4
165°	4322.7	4331.8	4268.4	4250.2	4232.1	4195.9	4168.7	4141.5	4114.3	4096.2	4050.9
167.5°	4204.9	4186.8	4168.7	4132.4	4141.5	4114.3	4087.1	4069.0	4050.9	4032.7	3996.5
170°	4105.2	4096.2	4078.1	4050.9	4059.9	4032.7	4032.7	3996.5	3987.4	3978.4	3933.1
172.5°	4023.7	4023.7	4005.6	4005.6	3996.5	3969.3	3951.2	3933.1	3933.1	3914.9	3905.9
175°	3942.1	3951.2	3942.1	3933.1	3933.1	3914.9	3914.9	3924.0	3905.9	3905.9	3878.7
177.5°	3878.7	3878.7	3878.7	3878.7	3878.7	3878.7	3878.7	3869.6	3878.7	3869.6	3842.4
180°	3860.6	3860.6	3860.6	3860.6	3860.6	3860.6	3860.6	3860.6	3860.6	3860.6	3860.6



TEST NUMBER: P508392

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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°	117.8	126.9	135.9	145.0	172.2	163.1	190.3	199.4	217.5	253.7	262.8
95°	480.3	480.3	471.2	471.2	453.1	453.1	444.1	435.0	480.3	534.7	607.2
97.5°	987.8	842.8	770.3	743.1	734.0	725.0	706.9	679.7	697.8	743.1	833.7
100°	1667.5	1377.5	1141.9	1005.9	978.7	933.4	915.3	906.2	906.2	996.9	1141.9
102.5°	2156.8	1730.9	1422.8	1223.4	1169.0	1123.7	1096.5	1096.5	1114.7	1223.4	1386.5
105°	2727.8	2184.0	1712.8	1450.0	1404.7	1341.2	1295.9	1305.0	1323.1	1422.8	1567.8
107.5°	3416.5	2764.0	2202.1	1794.3	1694.7	1604.0	1531.5	1531.5	1540.6	1604.0	1712.8
110°	4449.6	3606.8	2764.0	2156.8	1993.7	1894.0	1721.8	1721.8	1712.8	1758.1	1830.6
112.5°	5238.0	4259.3	3298.7	2519.3	2292.8	2129.7	1948.4	1894.0	1894.0	1903.1	1948.4
115°	5709.3	4694.3	3670.2	2854.6	2555.6	2356.2	2129.7	2066.2	2039.0	2057.2	2039.0
117.5°	5981.1	4957.1	3987.4	3099.3	2818.4	2591.8	2310.9	2229.3	2184.0	2220.3	2211.2
120°	6117.1	5192.7	4241.2	3353.1	3063.1	2800.3	2501.2	2419.6	2383.4	2383.4	2392.5
122.5°	6135.2	5319.6	4386.2	3579.6	3289.6	3035.9	2727.8	2610.0	2573.7	2582.8	2582.8
125°	6071.8	5301.5	4522.1	3760.9	3479.9	3226.2	2909.0	2809.3	2727.8	2764.0	2773.1
127.5°	5972.1	5256.2	4603.7	3905.9	3652.1	3425.6	3135.6	3017.8	2945.3	2963.4	2954.3
130°	5827.1	5201.8	4676.2	4032.7	3815.2	3588.7	3334.9	3226.2	3126.5	3135.6	3144.6
132.5°	5682.1	5183.7	4712.4	4132.4	3951.2	3760.9	3507.1	3398.4	3307.8	3316.8	3316.8
135°	5528.0	5138.3	4667.1	4195.9	4105.2	3905.9	3697.4	3579.6	3507.1	3507.1	3489.0
137.5°	5364.9	5029.6	4703.4	4322.7	4195.9	4032.7	3824.3	3733.7	3661.2	3652.1	3643.1
140°	5219.9	4911.8	4658.0	4349.9	4259.3	4132.4	3960.2	3887.7	3788.1	3769.9	3824.3
142.5°	5074.9	4857.4	4703.4	4413.4	4322.7	4214.0	4087.1	3987.4	3914.9	3896.8	3887.7
145°	4929.9	4803.0	4630.9	4395.2	4359.0	4250.2	4114.3	4087.1	4005.6	3987.4	3987.4
147.5°	4784.9	4676.2	4549.3	4386.2	4386.2	4295.6	4232.1	4150.6	4087.1	4050.9	4050.9
150°	4658.0	4567.4	4504.0	4377.1	4368.1	4295.6	4241.2	4204.9	4132.4	4114.3	4105.2
152.5°	4540.2	4458.7	4404.3	4322.7	4313.7	4214.0	4232.1	4195.9	4123.4	4105.2	4105.2
155°	4395.2	4386.2	4322.7	4241.2	4277.4	4223.1	4177.7	4223.1	4114.3	4132.4	4132.4
157.5°	4295.6	4286.5	4277.4	4195.9	4204.9	4177.7	4150.6	4186.8	4096.2	4105.2	4105.2
160°	4186.8	4168.7	4168.7	4096.2	4150.6	4096.2	4105.2	4123.4	4069.0	4078.1	4105.2
162.5°	4132.4	4096.2	4096.2	4069.0	4087.1	4069.0	4023.7	4087.1	4078.1	4059.9	4069.0
165°	4041.8	4032.7	4050.9	3996.5	4041.8	3987.4	4005.6	4032.7	4014.6	4023.7	4032.7
167.5°	3987.4	3978.4	3987.4	3960.2	3987.4	3969.3	3960.2	3996.5	3978.4	3987.4	3996.5
170°	3942.1	3942.1	3951.2	3924.0	3951.2	3924.0	3951.2	3951.2	3942.1	3942.1	3960.2
172.5°	3924.0	3896.8	3924.0	3878.7	3924.0	3869.6	3887.7	3914.9	3905.9	3896.8	3896.8
175°	3887.7	3878.7	3905.9	3860.6	3887.7	3860.6	3860.6	3887.7	3878.7	3869.6	3905.9
177.5°	3887.7	3860.6	3887.7	3842.4	3869.6	3851.5	3851.5	3878.7	3860.6	3860.6	3887.7
180°	3860.6	3860.6	3860.6	3860.6	3860.6	3860.6	3860.6	3860.6	3860.6	3860.6	3860.6





TEST NUMBER: P508392

CATALOG NUMBER: ASYX-X-L5-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°	262.8	308.1	317.2	344.4	335.3	280.9	244.7	199.4	172.2
95°	688.7	761.2	833.7	824.7	851.9	797.5	743.1	715.9	679.7
97.5°	924.4	1042.2	1114.7	1114.7	1123.7	1087.5	1069.4	1087.5	1042.2
100°	1305.0	1386.5	1413.7	1404.7	1377.5	1314.0	1277.8	1259.7	1232.5
102.5°	1531.5	1622.2	1649.3	1631.2	1613.1	1585.9	1549.7	1531.5	1522.5
105°	1685.6	1767.2	1803.4	1794.3	1785.3	1740.0	1667.5	1694.7	1685.6
107.5°	1830.6	1885.0	1921.2	1894.0	1885.0	1857.8	1812.5	1839.7	1803.4
110°	1921.2	1966.5	1975.6	1975.6	1957.5	1930.3	1894.0	1903.1	1875.9
112.5°	1993.7	2020.9	2020.9	2020.9	2002.8	1966.5	1948.4	1930.3	1930.3
115°	2075.3	2057.2	2066.2	2066.2	2048.1	1993.7	1966.5	1948.4	1930.3
117.5°	2220.3	2193.1	2165.9	2165.9	2120.6	2084.3	2057.2	2030.0	2002.8
120°	2356.2	2338.1	2320.0	2292.8	2265.6	2220.3	2175.0	2138.7	2120.6
122.5°	2537.5	2492.1	2465.0	2483.1	2428.7	2383.4	2329.0	2292.8	2247.5
125°	2736.8	2700.6	2655.3	2637.1	2591.8	2555.6	2510.3	2474.0	2419.6
127.5°	2909.0	2854.6	2836.5	2827.5	2773.1	2727.8	2655.3	2628.1	2628.1
130°	3108.4	3044.9	3054.0	3008.7	2963.4	2890.9	2818.4	2818.4	2809.3
132.5°	3298.7	3226.2	3217.1	3199.0	3144.6	3090.3	3044.9	3035.9	2999.6
135°	3452.8	3398.4	3389.3	3371.2	3325.9	3271.5	3199.0	3217.1	3144.6
137.5°	3588.7	3561.5	3552.4	3516.2	3470.9	3461.8	3380.3	3371.2	3325.9
140°	3742.7	3688.4	3724.6	3679.3	3624.9	3606.8	3498.1	3516.2	3516.2
142.5°	3851.5	3824.3	3815.2	3797.1	3760.9	3724.6	3697.4	3661.2	3679.3
145°	3960.2	3942.1	3924.0	3924.0	3869.6	3851.5	3797.1	3797.1	3769.9
147.5°	4050.9	4014.6	4014.6	3996.5	3969.3	3951.2	3896.8	3924.0	3878.7
150°	4050.9	4069.0	4050.9	4050.9	4059.9	4050.9	4005.6	3987.4	3996.5
152.5°	4123.4	4096.2	4078.1	4114.3	4069.0	4096.2	4032.7	4050.9	4032.7
155°	4087.1	4105.2	4114.3	4096.2	4096.2	4096.2	4069.0	4114.3	4069.0
157.5°	4123.4	4105.2	4114.3	4105.2	4087.1	4114.3	4087.1	4123.4	4096.2
160°	4105.2	4087.1	4105.2	4096.2	4078.1	4114.3	4114.3	4141.5	4105.2
162.5°	4041.8	4059.9	4105.2	4078.1	4078.1	4141.5	4041.8	4132.4	4078.1
165°	4023.7	4032.7	4050.9	4069.0	4032.7	4059.9	4059.9	4069.0	4041.8
167.5°	4005.6	3969.3	4005.6	4005.6	4014.6	4014.6	4014.6	4032.7	3996.5
170°	3969.3	3896.8	3969.3	3969.3	3951.2	3951.2	3942.1	3996.5	3951.2
172.5°	3905.9	3887.7	3914.9	3914.9	3933.1	3924.0	3924.0	3933.1	3905.9
175°	3869.6	3878.7	3914.9	3887.7	3878.7	3887.7	3860.6	3887.7	3860.6
177.5°	3851.5	3851.5	3860.6	3869.6	3887.7	3869.6	3842.4	3869.6	3842.4
180°	3860.6	3860.6	3860.6	3860.6	3860.6	3860.6	3860.6	3860.6	3860.6

(END OF REPORT)