

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: P508380

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

Issue Date: 4/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P508380  
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-L5-X-U-F-L30-1-UNV-X-X-X-STD  
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.  
(5) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

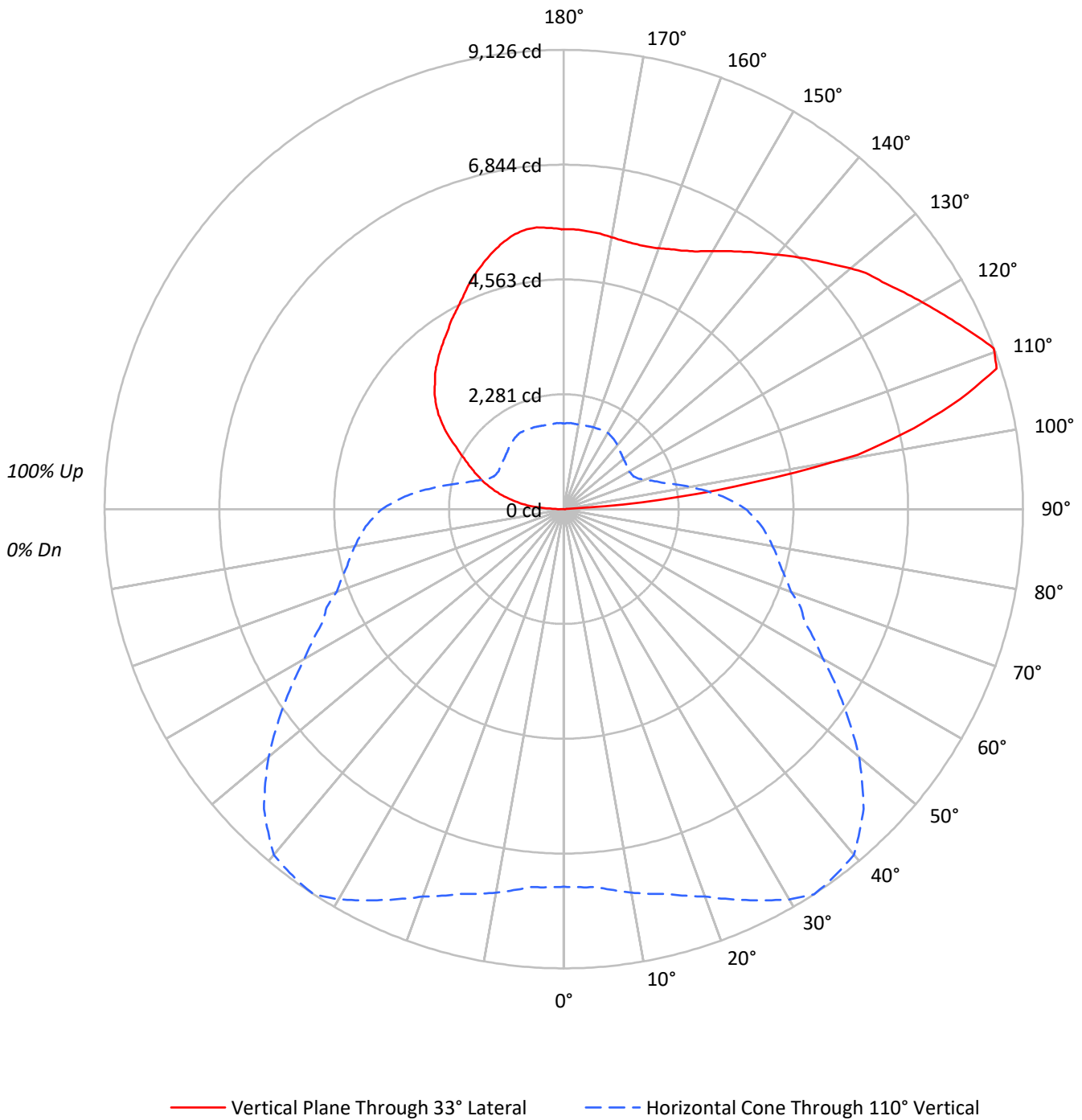
Lumens per Lamp: N/A  
Luminaire Lumens: 26407.3 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
N/A  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
CIE Type: Indirect

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: P508380  
CATALOG NUMBER: ASYX-X-L5-X-U-F-L30-1-UNV-X-X-X-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P508380

CATALOG NUMBER: ASYX-X-L5-X-U-F-L30-1-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°	64172	24626	53723
100°	162906	52429	44193
105°	158294	58041	37690
110°	157433	75865	35745
115°	137257	86018	32776
120°	114064	84540	31606
125°	97164	78797	32199
130°	83061	72235	33993
135°	71458	66400	34396
140°	62311	61292	34296
145°	54778	56524	34534
150°	48058	52789	34542
155°	44128	49510	35016
160°	40831	46159	36194
165°	39452	43694	37972
170°	39290	41734	39554
175°	40212	40408	39886



TEST NUMBER: P508380

CATALOG NUMBER: ASYX-X-L5-X-U-F-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°	958.6	3.6
100°-110°	3535.4	13.4
110°-120°	4797.1	18.2
120°-130°	4775.8	18.1
130°-140°	4251.6	16.1
140°-150°	3454.8	13.1
150°-160°	2536.8	9.6
160°-170°	1565.5	5.9
170°-180°	531.9	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°	9291.0	35.2
90°-150°	21773.2	82.5
90°-180°	26407.0	100.0
0°-180°	26407.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	779	1151	299	453	652	1291
105°	5709	7667	2093	1232	1359	6076
115°	8084	8319	5066	1966	1930	7904
125°	7766	7766	6298	2791	2574	6942
135°	7041	7069	6543	3525	3389	5485
145°	6253	6271	6452	4178	3942	3933
155°	5573	5764	6253	4903	4422	2572
165°	5310	5501	5882	5446	5111	1517
175°	5582	5528	5610	5610	5537	524
180°	5564	5564	5564	5564	5564	



TEST NUMBER: P508380

CATALOG NUMBER: ASYX-X-L5-X-U-F-L30-1-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°	45.3	45.3	45.3	54.4	63.4	63.4	81.6	90.6	81.6	117.8	135.9
95°	779.4	897.2	1286.9	1531.5	1513.4	1431.9	1522.5	1785.3	1921.2	1749.0	1486.2
97.5°	1957.5	2030.0	2836.5	3217.1	3552.4	3715.6	3860.6	3742.8	3806.2	3769.9	3434.6
100°	3942.1	4177.7	4458.7	4848.4	5328.7	5673.0	5935.8	6144.3	5944.9	5627.7	4703.4
102.5°	5047.7	5129.3	5319.6	5519.0	6035.5	6289.3	6552.1	7005.2	7141.1	7077.7	6579.3
105°	5709.3	5754.6	5935.8	6234.9	6633.6	6914.6	7240.8	7829.9	8174.2	8210.5	8246.7
107.5°	6543.0	6642.7	6860.2	7050.5	7521.8	7848.0	8138.0	8745.2	9044.2	9062.4	8935.5
110°	7503.6	7539.9	7739.2	7920.5	8192.4	8382.7	8573.0	8953.6	9125.8	9098.6	8971.7
112.5°	8020.2	8065.5	8138.0	8201.4	8328.3	8409.9	8527.7	8772.4	8872.0	8899.2	8772.4
115°	8083.6	8083.6	8138.0	8147.1	8292.1	8292.1	8346.4	8582.0	8627.4	8663.6	8591.1
117.5°	8029.2	8047.4	8083.6	8065.5	8128.9	8219.6	8201.4	8346.4	8400.8	8373.6	8400.8
120°	7947.7	7929.6	8002.1	7965.8	8011.1	8065.5	8029.2	8138.0	8183.3	8165.2	8255.8
122.5°	7866.1	7866.1	7893.3	7884.2	7866.1	7848.0	7857.1	7929.6	7974.9	7965.8	8020.2
125°	7766.4	7757.4	7748.3	7712.1	7757.4	7730.2	7684.9	7739.2	7775.5	7757.4	7811.7
127.5°	7603.3	7612.4	7594.2	7576.1	7521.8	7512.7	7558.0	7530.8	7621.4	7567.1	7621.4
130°	7440.2	7440.2	7422.1	7385.8	7367.7	7331.4	7322.4	7340.5	7394.9	7413.0	7331.4
132.5°	7313.3	7249.9	7204.6	7177.4	7177.4	7141.1	7123.0	7141.1	7168.3	7213.6	7222.7
135°	7041.4	7005.2	7005.2	6968.9	7023.3	6941.8	6923.6	6950.8	6959.9	6959.9	7014.3
137.5°	6887.4	6796.8	6760.5	6751.5	6742.4	6715.2	6715.2	6751.5	6760.5	6751.5	6796.8
140°	6651.8	6552.1	6588.3	6543.0	6552.1	6506.8	6524.9	6524.9	6561.1	6561.1	6606.5
142.5°	6515.8	6370.8	6352.7	6325.5	6334.6	6316.5	6407.1	6343.6	6379.9	6443.3	6416.1
145°	6253.0	6135.2	6162.4	6135.2	6144.3	6126.1	6171.5	6162.4	6207.7	6198.6	6244.0
147.5°	5972.1	5963.0	5972.1	5954.0	5972.1	5954.0	6008.3	5999.3	6044.6	6071.8	6080.8
150°	5799.9	5763.7	5772.7	5790.8	5772.7	5809.0	5809.0	5845.2	5890.5	5899.6	5935.8
152.5°	5618.7	5609.6	5654.9	5627.7	5645.8	5645.8	5673.0	5682.1	5745.5	5754.6	5845.2
155°	5573.3	5491.8	5491.8	5482.7	5528.0	5528.0	5564.3	5618.7	5645.8	5691.2	5700.2
157.5°	5410.2	5401.2	5401.2	5437.4	5392.1	5446.5	5528.0	5500.8	5573.3	5582.4	5618.7
160°	5346.8	5319.6	5337.7	5355.8	5355.8	5401.2	5464.6	5455.5	5500.8	5555.2	5564.3
162.5°	5383.0	5292.4	5301.5	5346.8	5328.7	5392.1	5401.2	5419.3	5464.6	5482.7	5537.1
165°	5310.5	5283.4	5265.2	5283.4	5337.7	5364.9	5392.1	5410.2	5455.5	5464.6	5491.8
167.5°	5337.7	5328.7	5328.7	5346.8	5383.0	5383.0	5428.3	5419.3	5464.6	5464.6	5482.7
170°	5392.1	5364.9	5383.0	5419.3	5355.8	5455.5	5446.5	5419.3	5491.8	5491.8	5519.0
172.5°	5464.6	5437.4	5446.5	5446.5	5446.5	5500.8	5509.9	5519.0	5528.0	5519.0	5519.0
175°	5582.4	5509.9	5500.8	5500.8	5519.0	5519.0	5537.1	5491.8	5546.2	5546.2	5537.1
177.5°	5555.2	5528.0	5573.3	5528.0	5509.9	5546.2	5573.3	5537.1	5564.3	5537.1	5564.3
180°	5564.3	5564.3	5564.3	5564.3	5564.3	5564.3	5564.3	5564.3	5564.3	5564.3	5564.3



TEST NUMBER: P508380

CATALOG NUMBER: ASYX-X-L5-X-U-F-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°	117.8	117.8	117.8	108.7	99.7	99.7	99.7	99.7	90.6	81.6	81.6
95°	1150.9	915.3	833.7	688.7	580.0	534.7	462.2	462.2	344.4	280.9	299.1
97.5°	2890.9	2247.5	1785.3	1350.3	1286.9	1205.3	1196.2	1015.0	897.2	815.6	706.9
100°	3751.8	3081.2	2673.4	2446.8	2147.8	2011.8	1912.2	1721.8	1604.0	1440.9	1268.7
102.5°	5573.3	4630.9	3833.4	3162.8	2709.6	2519.3	2392.5	2193.1	2048.1	1885.0	1667.5
105°	7666.7	6343.6	5011.5	4005.6	3398.4	3153.7	2936.2	2736.8	2546.5	2292.8	2093.4
107.5°	8228.6	7268.0	6262.1	5138.4	4295.6	4050.9	3797.1	3461.8	3208.1	2990.6	2646.2
110°	8428.0	7657.7	6787.7	5954.0	5274.3	5102.1	4803.0	4467.7	4214.0	3951.2	3615.9
112.5°	8346.4	7866.1	7168.3	6425.2	5872.4	5700.2	5482.7	5274.3	5138.4	4939.0	4494.9
115°	8319.2	7929.6	7440.2	6778.6	6280.2	6089.9	5917.7	5727.4	5691.2	5555.2	5065.9
117.5°	8201.4	7938.6	7567.1	7032.4	6588.3	6461.5	6289.3	6135.2	6117.1	5981.2	5555.2
120°	8119.9	7902.4	7585.2	7231.8	6851.1	6715.2	6570.2	6452.4	6398.0	6298.3	5890.5
122.5°	7929.6	7848.0	7603.3	7304.3	6959.9	6896.4	6760.5	6561.1	6651.8	6543.0	6153.3
125°	7766.4	7721.1	7657.7	7295.2	7050.5	6968.9	6869.3	6751.5	6778.6	6706.1	6298.3
127.5°	7594.2	7585.2	7539.9	7322.4	7095.8	7059.6	6941.8	6851.1	6833.0	6760.5	6398.0
130°	7458.3	7449.3	7385.8	7240.8	7095.8	7086.8	6968.9	6896.4	6887.4	6823.9	6470.5
132.5°	7258.9	7258.9	7295.2	7150.2	7059.6	7032.4	6978.0	6887.4	6914.6	6778.6	6506.8
135°	7068.6	7077.7	7104.9	7032.4	7086.8	6987.1	6932.7	6814.9	6869.3	6814.9	6543.0
137.5°	6851.1	6878.3	6932.7	6905.5	6932.7	6941.8	6869.3	6842.1	6842.1	6787.7	6534.0
140°	6588.3	6697.1	6796.8	6787.7	6842.1	6833.0	6805.8	6679.0	6796.8	6760.5	6543.0
142.5°	6470.5	6534.0	6651.8	6624.6	6742.4	6742.4	6724.3	6715.2	6742.4	6679.0	6506.8
145°	6271.1	6370.8	6461.5	6515.8	6588.3	6660.8	6633.6	6651.8	6660.8	6660.8	6452.4
147.5°	6144.3	6253.0	6370.8	6389.0	6515.8	6534.0	6543.0	6570.2	6624.6	6552.1	6470.5
150°	6008.3	6080.8	6216.8	6271.1	6407.1	6434.3	6425.2	6461.5	6552.1	6497.7	6370.8
152.5°	5799.9	5954.0	6071.8	6153.3	6253.0	6316.5	6325.5	6325.5	6407.1	6407.1	6334.6
155°	5763.7	5845.2	5954.0	6035.5	6144.3	6207.7	6216.8	6216.8	6298.3	6271.1	6253.0
157.5°	5682.1	5790.8	5881.5	5908.7	6044.6	6099.0	6099.0	6117.1	6189.6	6207.7	6144.3
160°	5627.7	5682.1	5790.8	5872.4	5944.9	6008.3	6017.4	6035.5	6080.8	6071.8	6044.6
162.5°	5546.2	5627.7	5727.4	5772.7	5854.3	5917.7	5908.7	5908.7	5990.2	6008.3	5972.1
165°	5500.8	5591.5	5709.3	5736.5	5790.8	5827.1	5818.0	5845.2	5917.7	5899.6	5881.5
167.5°	5519.0	5564.3	5664.0	5654.9	5718.3	5745.5	5745.5	5727.4	5772.7	5709.3	5763.7
170°	5546.2	5546.2	5600.5	5618.7	5673.0	5700.2	5673.0	5673.0	5700.2	5718.3	5727.4
172.5°	5555.2	5546.2	5591.5	5582.4	5600.5	5645.8	5618.7	5582.4	5636.8	5673.0	5627.7
175°	5528.0	5537.1	5609.6	5591.5	5564.3	5609.6	5564.3	5555.2	5636.8	5627.7	5609.6
177.5°	5500.8	5500.8	5546.2	5509.9	5573.3	5573.3	5528.0	5528.0	5618.7	5555.2	5537.1
180°	5564.3	5564.3	5564.3	5564.3	5564.3	5564.3	5564.3	5564.3	5564.3	5564.3	5564.3



TEST NUMBER: P508380

CATALOG NUMBER: ASYX-X-L5-X-U-F-L30-1-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°	90.6	99.7	108.7	126.9	135.9	145.0	163.1	181.2	208.4	208.4	244.7
95°	290.0	299.1	299.1	317.2	326.2	326.2	335.3	371.6	407.8	453.1	534.7
97.5°	616.2	543.7	525.6	525.6	534.7	534.7	543.7	561.9	589.1	643.4	725.0
100°	1087.5	924.4	806.5	743.1	725.0	715.9	725.0	725.0	770.3	842.8	933.4
102.5°	1422.8	1205.3	1005.9	915.3	879.0	888.1	879.0	897.2	960.6	1024.0	1123.7
105°	1794.3	1513.4	1259.7	1123.7	1069.4	1060.3	1060.3	1078.4	1150.9	1232.5	1305.0
107.5°	2301.8	1948.4	1576.8	1377.5	1295.9	1277.8	1277.8	1305.0	1350.3	1404.7	1486.2
110°	3117.4	2537.5	2020.9	1703.7	1595.0	1531.5	1495.3	1522.5	1549.7	1595.0	1658.4
112.5°	3878.7	3162.8	2483.1	2002.8	1857.8	1758.1	1703.7	1703.7	1740.0	1776.2	1821.5
115°	4404.3	3606.8	2872.8	2310.9	2102.5	2011.8	1894.0	1903.1	1930.3	1966.5	1993.7
117.5°	4875.5	4023.7	3199.0	2600.9	2365.3	2220.3	2102.5	2075.3	2129.7	2175.0	2193.1
120°	5210.9	4386.2	3525.3	2900.0	2628.1	2465.0	2301.8	2274.6	2329.0	2338.1	2428.7
122.5°	5491.8	4649.0	3806.2	3162.8	2872.8	2736.8	2537.5	2501.2	2537.5	2600.9	2673.4
125°	5673.0	4884.6	4059.9	3407.4	3135.6	2954.3	2745.9	2718.7	2745.9	2791.2	2872.8
127.5°	5818.0	5074.9	4304.6	3661.2	3344.0	3199.0	2990.6	2936.2	2972.5	2990.6	3081.2
130°	5926.8	5292.4	4531.2	3905.9	3624.9	3479.9	3199.0	3144.6	3162.8	3208.1	3253.4
132.5°	6035.5	5428.3	4757.7	4159.6	3887.7	3724.6	3452.8	3334.9	3344.0	3380.3	3425.6
135°	6108.0	5573.3	4993.4	4413.4	4114.3	3987.4	3697.4	3579.6	3534.3	3525.3	3579.6
137.5°	6180.5	5709.3	5174.6	4649.0	4395.2	4250.2	3905.9	3769.9	3724.6	3715.6	3733.7
140°	6244.0	5827.1	5337.7	4902.7	4649.0	4476.8	4159.6	3987.4	3914.9	3878.7	3896.8
142.5°	6271.1	5926.8	5509.9	5174.6	4866.5	4667.1	4404.3	4232.1	4078.1	4032.7	3996.5
145°	6289.3	6080.8	5673.0	5346.8	5111.2	4993.4	4676.2	4449.6	4268.4	4177.7	4159.6
147.5°	6289.3	6071.8	5781.8	5491.8	5292.4	5165.5	4821.2	4676.2	4531.2	4377.1	4304.6
150°	6271.1	6171.5	5863.3	5636.8	5428.3	5328.7	5084.0	4812.1	4658.0	4549.3	4467.7
152.5°	6225.8	6089.9	5908.7	5709.3	5555.2	5491.8	5210.9	5038.7	4875.5	4712.4	4649.0
155°	6180.5	6071.8	5935.8	5772.7	5645.8	5564.3	5364.9	5192.7	5074.9	4902.7	4839.3
157.5°	6126.1	6053.7	5935.8	5845.2	5700.2	5645.8	5446.5	5328.7	5229.0	5056.8	4975.2
160°	6044.6	5999.3	5926.8	5799.9	5736.5	5691.2	5528.0	5437.4	5337.7	5210.9	5147.4
162.5°	5963.0	5972.1	5881.5	5854.3	5754.6	5718.3	5609.6	5509.9	5410.2	5337.7	5283.4
165°	5899.6	5935.8	5845.2	5754.6	5754.6	5736.5	5618.7	5573.3	5528.0	5446.5	5383.0
167.5°	5781.8	5827.1	5827.1	5718.3	5709.3	5736.5	5664.0	5618.7	5582.4	5519.0	5482.7
170°	5763.7	5763.7	5700.2	5709.3	5736.5	5673.0	5627.7	5618.7	5618.7	5582.4	5555.2
172.5°	5654.9	5709.3	5682.1	5664.0	5636.8	5636.8	5609.6	5618.7	5600.5	5609.6	5600.5
175°	5618.7	5627.7	5636.8	5627.7	5600.5	5600.5	5591.5	5600.5	5609.6	5609.6	5591.5
177.5°	5564.3	5591.5	5636.8	5591.5	5609.6	5573.3	5564.3	5582.4	5582.4	5591.5	5573.3
180°	5564.3	5564.3	5564.3	5564.3	5564.3	5564.3	5564.3	5564.3	5564.3	5564.3	5564.3





TEST NUMBER: P508380

CATALOG NUMBER: ASYX-X-L5-X-U-F-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°	271.9	290.0	299.1	308.1	317.2	290.0	290.0	262.8	244.7
95°	580.0	625.3	625.3	625.3	652.5	670.6	661.6	652.5	652.5
97.5°	788.4	860.9	915.3	924.4	924.4	924.4	933.4	933.4	915.3
100°	996.9	1033.1	1069.4	1078.4	1069.4	1069.4	1060.3	1078.4	1069.4
102.5°	1196.2	1232.5	1241.5	1250.6	1241.5	1232.5	1214.4	1232.5	1196.2
105°	1368.4	1404.7	1395.6	1386.5	1377.5	1359.4	1341.2	1368.4	1359.4
107.5°	1558.7	1567.8	1576.8	1585.9	1549.7	1540.6	1540.6	1558.7	1549.7
110°	1712.8	1749.0	1740.0	1730.9	1730.9	1712.8	1703.7	1712.8	1703.7
112.5°	1875.9	1894.0	1885.0	1885.0	1875.9	1848.7	1821.5	1830.6	1821.5
115°	2048.1	2057.2	2048.1	2030.0	2011.8	1993.7	1957.5	1939.3	1930.3
117.5°	2229.3	2220.3	2202.2	2193.1	2175.0	2165.9	2111.5	2084.3	2075.3
120°	2437.8	2410.6	2374.3	2365.3	2338.1	2329.0	2256.5	2211.2	2202.2
122.5°	2691.5	2646.2	2573.7	2537.5	2528.4	2501.2	2410.6	2392.5	2365.3
125°	2909.0	2890.9	2845.6	2818.4	2782.1	2700.6	2600.9	2555.6	2573.7
127.5°	3117.4	3108.4	3090.3	3054.0	3008.7	2972.5	2890.9	2818.4	2800.3
130°	3289.6	3298.7	3271.5	3244.3	3217.1	3180.9	3090.3	3044.9	3044.9
132.5°	3452.8	3461.8	3479.9	3407.4	3389.3	3353.1	3271.5	3217.1	3235.3
135°	3579.6	3597.8	3570.6	3543.4	3525.3	3489.0	3407.4	3380.3	3389.3
137.5°	3751.8	3733.7	3706.5	3688.4	3643.1	3634.0	3570.6	3525.3	3507.1
140°	3860.6	3869.6	3869.6	3824.3	3779.0	3760.9	3697.4	3652.1	3661.2
142.5°	4005.6	3969.3	3987.4	3942.1	3914.9	3887.7	3806.2	3797.1	3797.1
145°	4114.3	4096.2	4087.1	4050.9	4041.8	3987.4	3960.2	3914.9	3942.1
147.5°	4232.1	4232.1	4232.1	4150.6	4132.4	4105.2	4078.1	4041.8	4069.0
150°	4404.3	4340.9	4322.7	4277.4	4241.2	4223.1	4159.6	4141.5	4168.7
152.5°	4540.2	4467.7	4413.4	4386.2	4377.1	4349.9	4313.7	4286.5	4286.5
155°	4703.4	4603.7	4603.7	4504.0	4476.8	4458.7	4422.4	4413.4	4422.4
157.5°	4875.5	4784.9	4739.6	4685.2	4639.9	4621.8	4576.5	4558.4	4576.5
160°	5002.4	4993.4	4893.7	4866.5	4821.2	4794.0	4784.9	4739.6	4739.6
162.5°	5201.8	5074.9	5056.8	5029.6	4993.4	4957.1	4939.0	4920.9	4939.0
165°	5310.5	5274.3	5229.0	5192.7	5165.5	5156.5	5102.1	5120.2	5111.2
167.5°	5437.4	5410.2	5364.9	5337.7	5346.8	5310.5	5310.5	5265.2	5274.3
170°	5528.0	5546.2	5491.8	5464.6	5446.5	5446.5	5410.2	5410.2	5428.3
172.5°	5591.5	5618.7	5573.3	5555.2	5537.1	5555.2	5519.0	5509.9	5528.0
175°	5609.6	5645.8	5609.6	5600.5	5582.4	5636.8	5573.3	5573.3	5537.1
177.5°	5591.5	5600.5	5636.8	5582.4	5582.4	5600.5	5609.6	5537.1	5582.4
180°	5564.3	5564.3	5564.3	5564.3	5564.3	5564.3	5564.3	5564.3	5564.3

(END OF REPORT)