

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: P508366

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

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508366
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-L4-X-U-F-L40-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(4) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

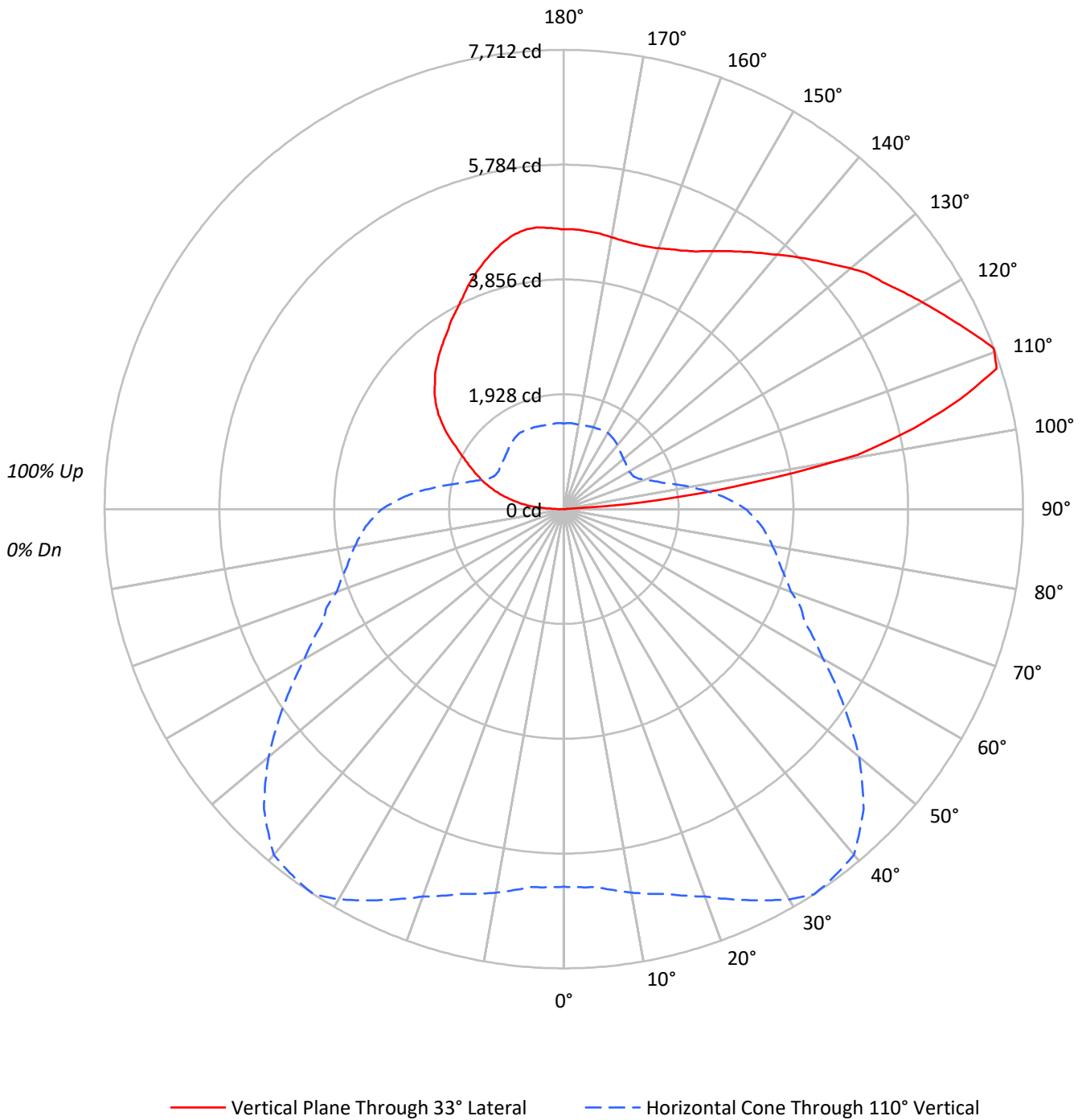
Lumens per Lamp: N/A
Luminaire Lumens: 22315.9 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
N/A
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Indirect

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: P508366
CATALOG NUMBER: ASYX-X-L4-X-U-F-L40-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot





TEST NUMBER: P508366

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

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	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°	81338	31209	68099
100°	206503	66462	56018
105°	200652	73574	47773
110°	199564	96168	45313
115°	173988	109035	41546
120°	144587	107163	40063
125°	123167	99884	40817
130°	105288	91565	43090
135°	90581	84170	43600
140°	78985	77694	43473
145°	69436	71650	43776
150°	60919	66916	43785
155°	55937	62759	44385
160°	51757	58512	45880
165°	50010	55386	48133
170°	49805	52901	50139
175°	50973	51221	50559



TEST NUMBER: P508366

CATALOG NUMBER: ASYX-X-L4-X-U-F-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°	810.0	3.6
100°-110°	2987.6	13.4
110°-120°	4053.8	18.2
120°-130°	4035.8	18.1
130°-140°	3592.8	16.1
140°-150°	2919.6	13.1
150°-160°	2143.8	9.6
160°-170°	1322.9	5.9
170°-180°	449.5	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°	7851.5	35.2
90°-150°	18399.8	82.5
90°-180°	22316.0	100.0
0°-180°	22315.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	659	973	253	383	551	1091
105°	4825	6479	1769	1042	1149	5135
115°	6831	7030	4281	1662	1631	6680
125°	6563	6563	5322	2359	2175	5866
135°	5950	5974	5529	2979	2864	4636
145°	5284	5300	5453	3530	3331	3323
155°	4710	4871	5284	4143	3737	2174
165°	4488	4649	4970	4603	4319	1282
175°	4718	4672	4740	4740	4679	443
180°	4702	4702	4702	4702	4702	



TEST NUMBER: P508366

CATALOG NUMBER: ASYX-X-L4-X-U-F-L40-1-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°	38.3	38.3	38.3	45.9	53.6	53.6	68.9	76.6	68.9	99.6	114.9
95°	658.6	758.2	1087.5	1294.3	1278.9	1210.0	1286.6	1508.7	1623.6	1478.0	1256.0
97.5°	1654.2	1715.5	2397.0	2718.7	3002.0	3139.9	3262.4	3162.9	3216.5	3185.8	2902.5
100°	3331.4	3530.5	3767.9	4097.2	4503.1	4794.1	5016.2	5192.3	5023.8	4755.8	3974.6
102.5°	4265.7	4334.6	4495.4	4663.9	5100.4	5314.8	5536.9	5919.9	6034.7	5981.1	5559.9
105°	4824.7	4863.0	5016.2	5268.9	5605.9	5843.3	6119.0	6616.8	6907.8	6938.4	6969.0
107.5°	5529.3	5613.5	5797.3	5958.1	6356.4	6632.1	6877.1	7390.2	7643.0	7658.3	7551.1
110°	6341.1	6371.7	6540.2	6693.3	6923.1	7083.9	7244.7	7566.4	7711.9	7688.9	7581.7
112.5°	6777.6	6815.9	6877.1	6930.7	7038.0	7106.9	7206.4	7413.2	7497.5	7520.4	7413.2
115°	6831.2	6831.2	6877.1	6884.8	7007.3	7007.3	7053.3	7252.4	7290.7	7321.3	7260.1
117.5°	6785.2	6800.6	6831.2	6815.9	6869.5	6946.1	6930.7	7053.3	7099.2	7076.3	7099.2
120°	6716.3	6701.0	6762.3	6731.6	6769.9	6815.9	6785.2	6877.1	6915.4	6900.1	6976.7
122.5°	6647.4	6647.4	6670.4	6662.7	6647.4	6632.1	6639.7	6701.0	6739.3	6731.6	6777.6
125°	6563.2	6555.5	6547.8	6517.2	6555.5	6532.5	6494.2	6540.2	6570.8	6555.5	6601.4
127.5°	6425.3	6433.0	6417.6	6402.3	6356.4	6348.7	6387.0	6364.0	6440.6	6394.7	6440.6
130°	6287.5	6287.5	6272.1	6241.5	6226.2	6195.6	6187.9	6203.2	6249.2	6264.5	6195.6
132.5°	6180.2	6126.6	6088.3	6065.4	6065.4	6034.7	6019.4	6034.7	6057.7	6096.0	6103.7
135°	5950.5	5919.9	5919.9	5889.2	5935.2	5866.2	5850.9	5873.9	5881.6	5881.6	5927.5
137.5°	5820.3	5743.7	5713.1	5705.4	5697.8	5674.8	5674.8	5705.4	5713.1	5705.4	5743.7
140°	5621.2	5536.9	5567.6	5529.3	5536.9	5498.6	5514.0	5514.0	5544.6	5544.6	5582.9
142.5°	5506.3	5383.8	5368.5	5345.5	5353.1	5337.8	5414.4	5360.8	5391.4	5445.0	5422.1
145°	5284.2	5184.7	5207.6	5184.7	5192.3	5177.0	5215.3	5207.6	5245.9	5238.3	5276.6
147.5°	5046.8	5039.2	5046.8	5031.5	5046.8	5031.5	5077.4	5069.8	5108.1	5131.1	5138.7
150°	4901.3	4870.7	4878.3	4893.6	4878.3	4909.0	4909.0	4939.6	4977.9	4985.5	5016.2
152.5°	4748.1	4740.5	4778.8	4755.8	4771.1	4771.1	4794.1	4801.7	4855.4	4863.0	4939.6
155°	4709.8	4640.9	4640.9	4633.3	4671.6	4671.6	4702.2	4748.1	4771.1	4809.4	4817.1
157.5°	4572.0	4564.3	4564.3	4595.0	4556.7	4602.6	4671.6	4648.6	4709.8	4717.5	4748.1
160°	4518.4	4495.4	4510.7	4526.0	4526.0	4564.3	4617.9	4610.3	4648.6	4694.5	4702.2
162.5°	4549.0	4472.4	4480.1	4518.4	4503.1	4556.7	4564.3	4579.7	4617.9	4633.3	4679.2
165°	4487.8	4464.8	4449.5	4464.8	4510.7	4533.7	4556.7	4572.0	4610.3	4617.9	4640.9
167.5°	4510.7	4503.1	4503.1	4518.4	4549.0	4549.0	4587.3	4579.7	4617.9	4617.9	4633.3
170°	4556.7	4533.7	4549.0	4579.7	4526.0	4610.3	4602.6	4579.7	4640.9	4640.9	4663.9
172.5°	4617.9	4595.0	4602.6	4602.6	4602.6	4648.6	4656.2	4663.9	4671.6	4663.9	4663.9
175°	4717.5	4656.2	4648.6	4648.6	4663.9	4663.9	4679.2	4640.9	4686.9	4686.9	4679.2
177.5°	4694.5	4671.6	4709.8	4671.6	4656.2	4686.9	4709.8	4679.2	4702.2	4679.2	4702.2
180°	4702.2	4702.2	4702.2	4702.2	4702.2	4702.2	4702.2	4702.2	4702.2	4702.2	4702.2



TEST NUMBER: P508366

CATALOG NUMBER: ASYX-X-L4-X-U-F-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°	99.6	99.6	99.6	91.9	84.2	84.2	84.2	84.2	76.6	68.9	68.9
95°	972.6	773.5	704.6	582.0	490.1	451.8	390.6	390.6	291.0	237.4	252.7
97.5°	2443.0	1899.3	1508.7	1141.1	1087.5	1018.6	1010.9	857.7	758.2	689.2	597.3
100°	3170.5	2603.8	2259.2	2067.7	1815.0	1700.1	1615.9	1455.1	1355.5	1217.7	1072.2
102.5°	4709.8	3913.4	3239.5	2672.7	2289.8	2129.0	2021.8	1853.3	1730.8	1592.9	1409.1
105°	6478.9	5360.8	4235.0	3385.0	2871.9	2665.1	2481.3	2312.8	2152.0	1937.5	1769.1
107.5°	6953.7	6141.9	5291.9	4342.2	3630.0	3423.3	3208.8	2925.5	2711.0	2527.2	2236.2
110°	7122.2	6471.3	5736.1	5031.5	4457.1	4311.6	4058.9	3775.5	3561.1	3339.0	3055.7
112.5°	7053.3	6647.4	6057.7	5429.7	4962.6	4817.1	4633.3	4457.1	4342.2	4173.8	3798.5
115°	7030.3	6701.0	6287.5	5728.4	5307.2	5146.4	5000.9	4840.0	4809.4	4694.5	4281.0
117.5°	6930.7	6708.7	6394.7	5942.8	5567.6	5460.4	5314.8	5184.7	5169.3	5054.5	4694.5
120°	6861.8	6678.0	6410.0	6111.3	5789.7	5674.8	5552.3	5452.7	5406.7	5322.5	4977.9
122.5°	6701.0	6632.1	6425.3	6172.6	5881.6	5828.0	5713.1	5544.6	5621.2	5529.3	5200.0
125°	6563.2	6524.9	6471.3	6164.9	5958.1	5889.2	5805.0	5705.4	5728.4	5667.1	5322.5
127.5°	6417.6	6410.0	6371.7	6187.9	5996.4	5965.8	5866.2	5789.7	5774.3	5713.1	5406.7
130°	6302.8	6295.1	6241.5	6119.0	5996.4	5988.8	5889.2	5828.0	5820.3	5766.7	5468.0
132.5°	6134.3	6134.3	6164.9	6042.4	5965.8	5942.8	5896.9	5820.3	5843.3	5728.4	5498.6
135°	5973.5	5981.1	6004.1	5942.8	5988.8	5904.5	5858.6	5759.0	5805.0	5759.0	5529.3
137.5°	5789.7	5812.6	5858.6	5835.6	5858.6	5866.2	5805.0	5782.0	5782.0	5736.1	5521.6
140°	5567.6	5659.5	5743.7	5736.1	5782.0	5774.3	5751.4	5644.2	5743.7	5713.1	5529.3
142.5°	5468.0	5521.6	5621.2	5598.2	5697.8	5697.8	5682.4	5674.8	5697.8	5644.2	5498.6
145°	5299.5	5383.8	5460.4	5506.3	5567.6	5628.8	5605.9	5621.2	5628.8	5628.8	5452.7
147.5°	5192.3	5284.2	5383.8	5399.1	5506.3	5521.6	5529.3	5552.3	5598.2	5536.9	5468.0
150°	5077.4	5138.7	5253.6	5299.5	5414.4	5437.4	5429.7	5460.4	5536.9	5491.0	5383.8
152.5°	4901.3	5031.5	5131.1	5200.0	5284.2	5337.8	5345.5	5345.5	5414.4	5414.4	5353.1
155°	4870.7	4939.6	5031.5	5100.4	5192.3	5245.9	5253.6	5253.6	5322.5	5299.5	5284.2
157.5°	4801.7	4893.6	4970.2	4993.2	5108.1	5154.0	5154.0	5169.3	5230.6	5245.9	5192.3
160°	4755.8	4801.7	4893.6	4962.6	5023.8	5077.4	5085.1	5100.4	5138.7	5131.1	5108.1
162.5°	4686.9	4755.8	4840.0	4878.3	4947.3	5000.9	4993.2	4993.2	5062.1	5077.4	5046.8
165°	4648.6	4725.2	4824.7	4847.7	4893.6	4924.3	4916.6	4939.6	5000.9	4985.5	4970.2
167.5°	4663.9	4702.2	4786.4	4778.8	4832.4	4855.4	4855.4	4840.0	4878.3	4824.7	4870.7
170°	4686.9	4686.9	4732.8	4748.1	4794.1	4817.1	4794.1	4794.1	4817.1	4832.4	4840.0
172.5°	4694.5	4686.9	4725.2	4717.5	4732.8	4771.1	4748.1	4717.5	4763.5	4794.1	4755.8
175°	4671.6	4679.2	4740.5	4725.2	4702.2	4740.5	4702.2	4694.5	4763.5	4755.8	4740.5
177.5°	4648.6	4648.6	4686.9	4656.2	4709.8	4709.8	4671.6	4671.6	4748.1	4694.5	4679.2
180°	4702.2	4702.2	4702.2	4702.2	4702.2	4702.2	4702.2	4702.2	4702.2	4702.2	4702.2



TEST NUMBER: P508366

CATALOG NUMBER: ASYX-X-L4-X-U-F-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°	76.6	84.2	91.9	107.2	114.9	122.5	137.8	153.2	176.1	176.1	206.8
95°	245.1	252.7	252.7	268.0	275.7	275.7	283.4	314.0	344.6	382.9	451.8
97.5°	520.8	459.5	444.2	444.2	451.8	451.8	459.5	474.8	497.8	543.7	612.7
100°	919.0	781.1	681.6	628.0	612.7	605.0	612.7	612.7	651.0	712.2	788.8
102.5°	1202.4	1018.6	850.1	773.5	742.9	750.5	742.9	758.2	811.8	865.4	949.6
105°	1516.3	1278.9	1064.5	949.6	903.7	896.0	896.0	911.3	972.6	1041.5	1102.8
107.5°	1945.2	1646.5	1332.5	1164.1	1095.1	1079.8	1079.8	1102.8	1141.1	1187.0	1256.0
110°	2634.5	2144.3	1707.8	1439.8	1347.9	1294.3	1263.6	1286.6	1309.6	1347.9	1401.5
112.5°	3277.7	2672.7	2098.4	1692.5	1569.9	1485.7	1439.8	1439.8	1470.4	1501.0	1539.3
115°	3721.9	3048.0	2427.7	1952.9	1776.7	1700.1	1600.6	1608.2	1631.2	1661.8	1684.8
117.5°	4120.2	3400.3	2703.4	2197.9	1998.8	1876.3	1776.7	1753.7	1799.7	1838.0	1853.3
120°	4403.5	3706.6	2979.1	2450.7	2220.9	2083.1	1945.2	1922.2	1968.2	1975.8	2052.4
122.5°	4640.9	3928.7	3216.5	2672.7	2427.7	2312.8	2144.3	2113.7	2144.3	2197.9	2259.2
125°	4794.1	4127.8	3430.9	2879.5	2649.8	2496.6	2320.5	2297.5	2320.5	2358.8	2427.7
127.5°	4916.6	4288.6	3637.7	3093.9	2825.9	2703.4	2527.2	2481.3	2511.9	2527.2	2603.8
130°	5008.5	4472.4	3829.1	3300.7	3063.3	2940.8	2703.4	2657.4	2672.7	2711.0	2749.3
132.5°	5100.4	4587.3	4020.6	3515.2	3285.4	3147.6	2917.8	2818.2	2825.9	2856.5	2894.8
135°	5161.7	4709.8	4219.7	3729.6	3476.9	3369.6	3124.6	3025.0	2986.7	2979.1	3025.0
137.5°	5223.0	4824.7	4372.9	3928.7	3714.3	3591.7	3300.7	3185.8	3147.6	3139.9	3155.2
140°	5276.6	4924.3	4510.7	4143.1	3928.7	3783.2	3515.2	3369.6	3308.4	3277.7	3293.1
142.5°	5299.5	5008.5	4656.2	4372.9	4112.5	3944.0	3721.9	3576.4	3446.2	3407.9	3377.3
145°	5314.8	5138.7	4794.1	4518.4	4319.3	4219.7	3951.7	3760.2	3607.1	3530.5	3515.2
147.5°	5314.8	5131.1	4886.0	4640.9	4472.4	4365.2	4074.2	3951.7	3829.1	3699.0	3637.7
150°	5299.5	5215.3	4954.9	4763.5	4587.3	4503.1	4296.3	4066.5	3936.4	3844.5	3775.5
152.5°	5261.2	5146.4	4993.2	4824.7	4694.5	4640.9	4403.5	4258.0	4120.2	3982.3	3928.7
155°	5223.0	5131.1	5016.2	4878.3	4771.1	4702.2	4533.7	4388.2	4288.6	4143.1	4089.5
157.5°	5177.0	5115.7	5016.2	4939.6	4817.1	4771.1	4602.6	4503.1	4418.8	4273.3	4204.4
160°	5108.1	5069.8	5008.5	4901.3	4847.7	4809.4	4671.6	4595.0	4510.7	4403.5	4349.9
162.5°	5039.2	5046.8	4970.2	4947.3	4863.0	4832.4	4740.5	4656.2	4572.0	4510.7	4464.8
165°	4985.5	5016.2	4939.6	4863.0	4863.0	4847.7	4748.1	4709.8	4671.6	4602.6	4549.0
167.5°	4886.0	4924.3	4924.3	4832.4	4824.7	4847.7	4786.4	4748.1	4717.5	4663.9	4633.3
170°	4870.7	4870.7	4817.1	4824.7	4847.7	4794.1	4755.8	4748.1	4748.1	4717.5	4694.5
172.5°	4778.8	4824.7	4801.7	4786.4	4763.5	4763.5	4740.5	4748.1	4732.8	4740.5	4732.8
175°	4748.1	4755.8	4763.5	4755.8	4732.8	4732.8	4725.2	4732.8	4740.5	4740.5	4725.2
177.5°	4702.2	4725.2	4763.5	4725.2	4740.5	4709.8	4702.2	4717.5	4717.5	4725.2	4709.8
180°	4702.2	4702.2	4702.2	4702.2	4702.2	4702.2	4702.2	4702.2	4702.2	4702.2	4702.2



TEST NUMBER: P508366

CATALOG NUMBER: ASYX-X-L4-X-U-F-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°	229.7	245.1	252.7	260.4	268.0	245.1	245.1	222.1	206.8
95°	490.1	528.4	528.4	528.4	551.4	566.7	559.1	551.4	551.4
97.5°	666.3	727.5	773.5	781.1	781.1	781.1	788.8	788.8	773.5
100°	842.4	873.0	903.7	911.3	903.7	903.7	896.0	911.3	903.7
102.5°	1010.9	1041.5	1049.2	1056.8	1049.2	1041.5	1026.2	1041.5	1010.9
105°	1156.4	1187.0	1179.4	1171.7	1164.1	1148.7	1133.4	1156.4	1148.7
107.5°	1317.2	1324.9	1332.5	1340.2	1309.6	1301.9	1301.9	1317.2	1309.6
110°	1447.4	1478.0	1470.4	1462.7	1462.7	1447.4	1439.8	1447.4	1439.8
112.5°	1585.3	1600.6	1592.9	1592.9	1585.3	1562.3	1539.3	1547.0	1539.3
115°	1730.8	1738.4	1730.8	1715.5	1700.1	1684.8	1654.2	1638.9	1631.2
117.5°	1883.9	1876.3	1861.0	1853.3	1838.0	1830.3	1784.4	1761.4	1753.7
120°	2060.1	2037.1	2006.5	1998.8	1975.8	1968.2	1906.9	1868.6	1861.0
122.5°	2274.5	2236.2	2175.0	2144.3	2136.7	2113.7	2037.1	2021.8	1998.8
125°	2458.3	2443.0	2404.7	2381.7	2351.1	2282.2	2197.9	2159.6	2175.0
127.5°	2634.5	2626.8	2611.5	2580.8	2542.6	2511.9	2443.0	2381.7	2366.4
130°	2780.0	2787.6	2764.6	2741.7	2718.7	2688.1	2611.5	2573.2	2573.2
132.5°	2917.8	2925.5	2940.8	2879.5	2864.2	2833.6	2764.6	2718.7	2734.0
135°	3025.0	3040.3	3017.4	2994.4	2979.1	2948.4	2879.5	2856.5	2864.2
137.5°	3170.5	3155.2	3132.2	3116.9	3078.6	3071.0	3017.4	2979.1	2963.8
140°	3262.4	3270.1	3270.1	3231.8	3193.5	3178.2	3124.6	3086.3	3093.9
142.5°	3385.0	3354.3	3369.6	3331.4	3308.4	3285.4	3216.5	3208.8	3208.8
145°	3476.9	3461.5	3453.9	3423.3	3415.6	3369.6	3346.7	3308.4	3331.4
147.5°	3576.4	3576.4	3576.4	3507.5	3492.2	3469.2	3446.2	3415.6	3438.6
150°	3721.9	3668.3	3653.0	3614.7	3584.1	3568.8	3515.2	3499.8	3522.8
152.5°	3836.8	3775.5	3729.6	3706.6	3699.0	3676.0	3645.3	3622.4	3622.4
155°	3974.6	3890.4	3890.4	3806.2	3783.2	3767.9	3737.2	3729.6	3737.2
157.5°	4120.2	4043.6	4005.3	3959.3	3921.0	3905.7	3867.4	3852.1	3867.4
160°	4227.4	4219.7	4135.5	4112.5	4074.2	4051.2	4043.6	4005.3	4005.3
162.5°	4395.9	4288.6	4273.3	4250.3	4219.7	4189.1	4173.8	4158.4	4173.8
165°	4487.8	4457.1	4418.8	4388.2	4365.2	4357.6	4311.6	4326.9	4319.3
167.5°	4595.0	4572.0	4533.7	4510.7	4518.4	4487.8	4487.8	4449.5	4457.1
170°	4671.6	4686.9	4640.9	4617.9	4602.6	4602.6	4572.0	4572.0	4587.3
172.5°	4725.2	4748.1	4709.8	4694.5	4679.2	4694.5	4663.9	4656.2	4671.6
175°	4740.5	4771.1	4740.5	4732.8	4717.5	4763.5	4709.8	4709.8	4679.2
177.5°	4725.2	4732.8	4763.5	4717.5	4717.5	4732.8	4740.5	4679.2	4717.5
180°	4702.2	4702.2	4702.2	4702.2	4702.2	4702.2	4702.2	4702.2	4702.2

(END OF REPORT)