

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: P508364

Luminaire Tested: **ASYX-X-L4-X-U-F-L30-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508364
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-L30-1-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

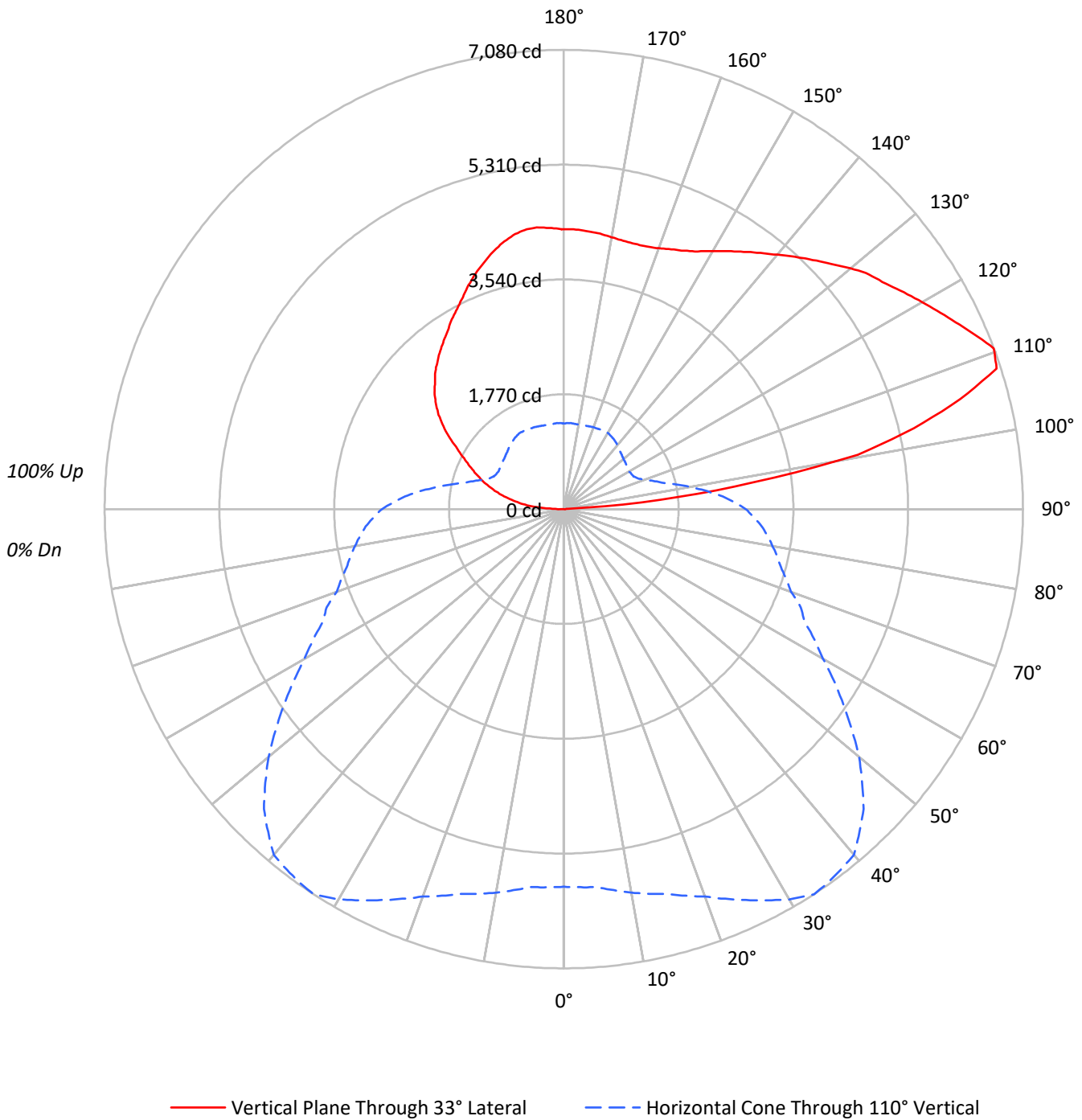
Lumens per Lamp: N/A
Luminaire Lumens: 20486.8 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
N/A
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Indirect

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: P508364
CATALOG NUMBER: ASYX-X-L4-X-U-F-L30-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot





TEST NUMBER: P508364

CATALOG NUMBER: ASYX-X-L4-X-U-F-L30-1-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	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°	74669	28652	62517
100°	189575	61014	51424
105°	184208	67544	43859
110°	183206	88284	41596
115°	159727	100098	38141
120°	132736	98380	36778
125°	113071	91696	37471
130°	96658	84060	39558
135°	83156	77271	40026
140°	72510	71326	39910
145°	63745	65778	40187
150°	55926	61431	40197
155°	51352	57615	40748
160°	47514	53716	42119
165°	45911	50846	44187
170°	45722	48565	46029
175°	46794	47022	46415



TEST NUMBER: P508364

CATALOG NUMBER: ASYX-X-L4-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°	743.6	3.6
100°-110°	2742.8	13.4
110°-120°	3721.6	18.2
120°-130°	3705.0	18.1
130°-140°	3298.4	16.1
140°-150°	2680.3	13.1
150°-160°	1968.0	9.6
160°-170°	1214.5	5.9
170°-180°	412.6	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°	7208.0	35.2
90°-150°	16891.6	82.5
90°-180°	20487.0	100.0
0°-180°	20486.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	605	893	232	352	506	1002
105°	4429	5948	1624	956	1055	4714
115°	6271	6454	3930	1526	1498	6132
125°	6025	6025	4886	2165	1997	5385
135°	5463	5484	5076	2735	2629	4256
145°	4851	4865	5006	3241	3058	3051
155°	4324	4471	4851	3804	3431	1995
165°	4120	4268	4563	4225	3965	1177
175°	4331	4289	4352	4352	4296	407
180°	4317	4317	4317	4317	4317	



TEST NUMBER: P508364

CATALOG NUMBER: ASYX-X-L4-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°	35.2	35.2	35.2	42.2	49.2	49.2	63.3	70.3	63.3	91.4	105.5
95°	604.6	696.0	998.3	1188.2	1174.1	1110.8	1181.1	1385.0	1490.5	1356.9	1153.0
97.5°	1518.6	1574.8	2200.6	2495.8	2756.0	2882.5	2995.0	2903.6	2952.8	2924.7	2664.6
100°	3058.3	3241.1	3459.0	3761.3	4134.0	4401.1	4605.0	4766.7	4612.0	4366.0	3648.9
102.5°	3916.0	3979.3	4126.9	4281.6	4682.4	4879.2	5083.1	5434.6	5540.1	5490.9	5104.2
105°	4429.3	4464.4	4605.0	4837.0	5146.4	5364.3	5617.4	6074.4	6341.6	6369.7	6397.8
107.5°	5076.1	5153.4	5322.1	5469.8	5835.4	6088.5	6313.4	6784.5	7016.5	7030.6	6932.1
110°	5821.3	5849.4	6004.1	6144.7	6355.6	6503.3	6650.9	6946.2	7079.8	7058.7	6960.3
112.5°	6222.0	6257.2	6313.4	6362.7	6461.1	6524.4	6615.8	6805.6	6882.9	6904.0	6805.6
115°	6271.3	6271.3	6313.4	6320.5	6433.0	6433.0	6475.1	6657.9	6693.1	6721.2	6665.0
117.5°	6229.1	6243.1	6271.3	6257.2	6306.4	6376.7	6362.7	6475.1	6517.3	6496.2	6517.3
120°	6165.8	6151.7	6208.0	6179.9	6215.0	6257.2	6229.1	6313.4	6348.6	6334.5	6404.8
122.5°	6102.5	6102.5	6123.6	6116.6	6102.5	6088.5	6095.5	6151.7	6186.9	6179.9	6222.0
125°	6025.2	6018.2	6011.1	5983.0	6018.2	5997.1	5961.9	6004.1	6032.2	6018.2	6060.3
127.5°	5898.6	5905.7	5891.6	5877.5	5835.4	5828.3	5863.5	5842.4	5912.7	5870.5	5912.7
130°	5772.1	5772.1	5758.0	5729.9	5715.8	5687.7	5680.7	5694.8	5736.9	5751.0	5687.7
132.5°	5673.7	5624.4	5589.3	5568.2	5568.2	5540.1	5526.0	5540.1	5561.2	5596.3	5603.4
135°	5462.7	5434.6	5434.6	5406.5	5448.7	5385.4	5371.3	5392.4	5399.5	5399.5	5441.7
137.5°	5343.2	5272.9	5244.8	5237.8	5230.7	5209.6	5209.6	5237.8	5244.8	5237.8	5272.9
140°	5160.4	5083.1	5111.2	5076.1	5083.1	5047.9	5062.0	5062.0	5090.1	5090.1	5125.3
142.5°	5055.0	4942.5	4928.4	4907.3	4914.4	4900.3	4970.6	4921.4	4949.5	4998.7	4977.6
145°	4851.1	4759.7	4780.8	4759.7	4766.7	4752.7	4787.8	4780.8	4815.9	4808.9	4844.1
147.5°	4633.1	4626.1	4633.1	4619.1	4633.1	4619.1	4661.3	4654.2	4689.4	4710.5	4717.5
150°	4499.6	4471.4	4478.5	4492.5	4478.5	4506.6	4506.6	4534.7	4569.9	4576.9	4605.0
152.5°	4358.9	4351.9	4387.1	4366.0	4380.0	4380.0	4401.1	4408.2	4457.4	4464.4	4534.7
155°	4323.8	4260.5	4260.5	4253.5	4288.6	4288.6	4316.8	4358.9	4380.0	4415.2	4422.2
157.5°	4197.2	4190.2	4190.2	4218.3	4183.2	4225.4	4288.6	4267.5	4323.8	4330.8	4358.9
160°	4148.0	4126.9	4141.0	4155.1	4155.1	4190.2	4239.4	4232.4	4267.5	4309.7	4316.8
162.5°	4176.2	4105.8	4112.9	4148.0	4134.0	4183.2	4190.2	4204.3	4239.4	4253.5	4295.7
165°	4119.9	4098.8	4084.8	4098.8	4141.0	4162.1	4183.2	4197.2	4232.4	4239.4	4260.5
167.5°	4141.0	4134.0	4134.0	4148.0	4176.2	4176.2	4211.3	4204.3	4239.4	4239.4	4253.5
170°	4183.2	4162.1	4176.2	4204.3	4155.1	4232.4	4225.4	4204.3	4260.5	4260.5	4281.6
172.5°	4239.4	4218.3	4225.4	4225.4	4225.4	4267.5	4274.6	4281.6	4288.6	4281.6	4281.6
175°	4330.8	4274.6	4267.5	4267.5	4281.6	4281.6	4295.7	4260.5	4302.7	4302.7	4295.7
177.5°	4309.7	4288.6	4323.8	4288.6	4274.6	4302.7	4323.8	4295.7	4316.8	4295.7	4316.8
180°	4316.8	4316.8	4316.8	4316.8	4316.8	4316.8	4316.8	4316.8	4316.8	4316.8	4316.8



TEST NUMBER: P508364

CATALOG NUMBER: ASYX-X-L4-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°	91.4	91.4	91.4	84.4	77.3	77.3	77.3	77.3	70.3	63.3	63.3
95°	892.9	710.1	646.8	534.3	450.0	414.8	358.6	358.6	267.2	217.9	232.0
97.5°	2242.7	1743.6	1385.0	1047.6	998.3	935.1	928.0	787.4	696.0	632.8	548.4
100°	2910.7	2390.4	2074.0	1898.3	1666.2	1560.8	1483.4	1335.8	1244.4	1117.9	984.3
102.5°	4323.8	3592.6	2973.9	2453.7	2102.1	1954.5	1856.1	1701.4	1588.9	1462.4	1293.6
105°	5947.9	4921.4	3887.9	3107.5	2636.5	2446.6	2277.9	2123.2	1975.6	1778.7	1624.1
107.5°	6383.7	5638.5	4858.1	3986.3	3332.5	3142.7	2945.8	2685.7	2488.8	2320.1	2052.9
110°	6538.4	5940.8	5265.9	4619.1	4091.8	3958.2	3726.2	3466.1	3269.2	3065.3	2805.2
112.5°	6475.1	6102.5	5561.2	4984.7	4555.8	4422.2	4253.5	4091.8	3986.3	3831.7	3487.2
115°	6454.1	6151.7	5772.1	5258.9	4872.2	4724.5	4591.0	4443.3	4415.2	4309.7	3930.1
117.5°	6362.7	6158.8	5870.5	5455.7	5111.2	5012.8	4879.2	4759.7	4745.6	4640.2	4309.7
120°	6299.4	6130.6	5884.6	5610.4	5315.1	5209.6	5097.2	5005.8	4963.6	4886.2	4569.9
122.5°	6151.7	6088.5	5898.6	5666.6	5399.5	5350.3	5244.8	5090.1	5160.4	5076.1	4773.7
125°	6025.2	5990.0	5940.8	5659.6	5469.8	5406.5	5329.2	5237.8	5258.9	5202.6	4886.2
127.5°	5891.6	5884.6	5849.4	5680.7	5504.9	5476.8	5385.4	5315.1	5301.0	5244.8	4963.6
130°	5786.1	5779.1	5729.9	5617.4	5504.9	5497.9	5406.5	5350.3	5343.2	5294.0	5019.8
132.5°	5631.5	5631.5	5659.6	5547.1	5476.8	5455.7	5413.5	5343.2	5364.3	5258.9	5047.9
135°	5483.8	5490.9	5512.0	5455.7	5497.9	5420.6	5378.4	5287.0	5329.2	5287.0	5076.1
137.5°	5315.1	5336.2	5378.4	5357.3	5378.4	5385.4	5329.2	5308.1	5308.1	5265.9	5069.0
140°	5111.2	5195.6	5272.9	5265.9	5308.1	5301.0	5279.9	5181.5	5272.9	5244.8	5076.1
142.5°	5019.8	5069.0	5160.4	5139.3	5230.7	5230.7	5216.7	5209.6	5230.7	5181.5	5047.9
145°	4865.1	4942.5	5012.8	5055.0	5111.2	5167.5	5146.4	5160.4	5167.5	5167.5	5005.8
147.5°	4766.7	4851.1	4942.5	4956.5	5055.0	5069.0	5076.1	5097.2	5139.3	5083.1	5019.8
150°	4661.3	4717.5	4823.0	4865.1	4970.6	4991.7	4984.7	5012.8	5083.1	5040.9	4942.5
152.5°	4499.6	4619.1	4710.5	4773.7	4851.1	4900.3	4907.3	4907.3	4970.6	4970.6	4914.4
155°	4471.4	4534.7	4619.1	4682.4	4766.7	4815.9	4823.0	4823.0	4886.2	4865.1	4851.1
157.5°	4408.2	4492.5	4562.8	4583.9	4689.4	4731.6	4731.6	4745.6	4801.9	4815.9	4766.7
160°	4366.0	4408.2	4492.5	4555.8	4612.0	4661.3	4668.3	4682.4	4717.5	4710.5	4689.4
162.5°	4302.7	4366.0	4443.3	4478.5	4541.7	4591.0	4583.9	4583.9	4647.2	4661.3	4633.1
165°	4267.5	4337.9	4429.3	4450.3	4492.5	4520.6	4513.6	4534.7	4591.0	4576.9	4562.8
167.5°	4281.6	4316.8	4394.1	4387.1	4436.3	4457.4	4457.4	4443.3	4478.5	4429.3	4471.4
170°	4302.7	4302.7	4344.9	4358.9	4401.1	4422.2	4401.1	4401.1	4422.2	4436.3	4443.3
172.5°	4309.7	4302.7	4337.9	4330.8	4344.9	4380.0	4358.9	4330.8	4373.0	4401.1	4366.0
175°	4288.6	4295.7	4351.9	4337.9	4316.8	4351.9	4316.8	4309.7	4373.0	4366.0	4351.9
177.5°	4267.5	4267.5	4302.7	4274.6	4323.8	4323.8	4288.6	4288.6	4358.9	4309.7	4295.7
180°	4316.8	4316.8	4316.8	4316.8	4316.8	4316.8	4316.8	4316.8	4316.8	4316.8	4316.8



TEST NUMBER: P508364

CATALOG NUMBER: ASYX-X-L4-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°	70.3	77.3	84.4	98.4	105.5	112.5	126.6	140.6	161.7	161.7	189.8
95°	225.0	232.0	232.0	246.1	253.1	253.1	260.1	288.3	316.4	351.5	414.8
97.5°	478.1	421.8	407.8	407.8	414.8	414.8	421.8	435.9	457.0	499.2	562.4
100°	843.7	717.1	625.7	576.5	562.4	555.4	562.4	562.4	597.6	653.8	724.1
102.5°	1103.8	935.1	780.4	710.1	682.0	689.0	682.0	696.0	745.2	794.5	871.8
105°	1392.1	1174.1	977.2	871.8	829.6	822.6	822.6	836.6	892.9	956.2	1012.4
107.5°	1785.8	1511.6	1223.3	1068.6	1005.4	991.3	991.3	1012.4	1047.6	1089.7	1153.0
110°	2418.5	1968.6	1567.8	1321.7	1237.4	1188.2	1160.0	1181.1	1202.2	1237.4	1286.6
112.5°	3009.1	2453.7	1926.4	1553.8	1441.3	1363.9	1321.7	1321.7	1349.9	1378.0	1413.1
115°	3416.9	2798.2	2228.7	1792.8	1631.1	1560.8	1469.4	1476.4	1497.5	1525.6	1546.7
117.5°	3782.4	3121.6	2481.8	2017.8	1835.0	1722.5	1631.1	1610.0	1652.2	1687.3	1701.4
120°	4042.6	3402.8	2734.9	2249.8	2038.9	1912.3	1785.8	1764.7	1806.9	1813.9	1884.2
122.5°	4260.5	3606.7	2952.8	2453.7	2228.7	2123.2	1968.6	1940.4	1968.6	2017.8	2074.0
125°	4401.1	3789.5	3149.7	2643.5	2432.6	2292.0	2130.3	2109.2	2130.3	2165.4	2228.7
127.5°	4513.6	3937.1	3339.5	2840.3	2594.3	2481.8	2320.1	2277.9	2306.0	2320.1	2390.4
130°	4598.0	4105.8	3515.3	3030.2	2812.2	2699.7	2481.8	2439.6	2453.7	2488.8	2524.0
132.5°	4682.4	4211.3	3691.0	3227.0	3016.1	2889.6	2678.6	2587.2	2594.3	2622.4	2657.6
135°	4738.6	4323.8	3873.8	3423.9	3191.9	3093.4	2868.5	2777.1	2741.9	2734.9	2777.1
137.5°	4794.8	4429.3	4014.4	3606.7	3409.8	3297.3	3030.2	2924.7	2889.6	2882.5	2896.6
140°	4844.1	4520.6	4141.0	3803.5	3606.7	3473.1	3227.0	3093.4	3037.2	3009.1	3023.1
142.5°	4865.1	4598.0	4274.6	4014.4	3775.4	3620.7	3416.9	3283.3	3163.8	3128.6	3100.5
145°	4879.2	4717.5	4401.1	4148.0	3965.2	3873.8	3627.8	3452.0	3311.4	3241.1	3227.0
147.5°	4879.2	4710.5	4485.5	4260.5	4105.8	4007.4	3740.3	3627.8	3515.3	3395.8	3339.5
150°	4865.1	4787.8	4548.8	4373.0	4211.3	4134.0	3944.1	3733.2	3613.7	3529.3	3466.1
152.5°	4830.0	4724.5	4583.9	4429.3	4309.7	4260.5	4042.6	3909.0	3782.4	3655.9	3606.7
155°	4794.8	4710.5	4605.0	4478.5	4380.0	4316.8	4162.1	4028.5	3937.1	3803.5	3754.3
157.5°	4752.7	4696.4	4605.0	4534.7	4422.2	4380.0	4225.4	4134.0	4056.6	3923.1	3859.8
160°	4689.4	4654.2	4598.0	4499.6	4450.3	4415.2	4288.6	4218.3	4141.0	4042.6	3993.4
162.5°	4626.1	4633.1	4562.8	4541.7	4464.4	4436.3	4351.9	4274.6	4197.2	4141.0	4098.8
165°	4576.9	4605.0	4534.7	4464.4	4464.4	4450.3	4358.9	4323.8	4288.6	4225.4	4176.2
167.5°	4485.5	4520.6	4520.6	4436.3	4429.3	4450.3	4394.1	4358.9	4330.8	4281.6	4253.5
170°	4471.4	4471.4	4422.2	4429.3	4450.3	4401.1	4366.0	4358.9	4358.9	4330.8	4309.7
172.5°	4387.1	4429.3	4408.2	4394.1	4373.0	4373.0	4351.9	4358.9	4344.9	4351.9	4344.9
175°	4358.9	4366.0	4373.0	4366.0	4344.9	4344.9	4337.9	4344.9	4351.9	4351.9	4337.9
177.5°	4316.8	4337.9	4373.0	4337.9	4351.9	4323.8	4316.8	4330.8	4330.8	4337.9	4323.8
180°	4316.8	4316.8	4316.8	4316.8	4316.8	4316.8	4316.8	4316.8	4316.8	4316.8	4316.8



TEST NUMBER: P508364

CATALOG NUMBER: ASYX-X-L4-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°	210.9	225.0	232.0	239.0	246.1	225.0	225.0	203.9	189.8
95°	450.0	485.1	485.1	485.1	506.2	520.3	513.2	506.2	506.2
97.5°	611.7	667.9	710.1	717.1	717.1	717.1	724.1	724.1	710.1
100°	773.4	801.5	829.6	836.6	829.6	829.6	822.6	836.6	829.6
102.5°	928.0	956.2	963.2	970.2	963.2	956.2	942.1	956.2	928.0
105°	1061.6	1089.7	1082.7	1075.7	1068.6	1054.6	1040.5	1061.6	1054.6
107.5°	1209.3	1216.3	1223.3	1230.3	1202.2	1195.2	1195.2	1209.3	1202.2
110°	1328.8	1356.9	1349.9	1342.8	1342.8	1328.8	1321.7	1328.8	1321.7
112.5°	1455.3	1469.4	1462.4	1462.4	1455.3	1434.2	1413.1	1420.2	1413.1
115°	1588.9	1595.9	1588.9	1574.8	1560.8	1546.7	1518.6	1504.5	1497.5
117.5°	1729.5	1722.5	1708.4	1701.4	1687.3	1680.3	1638.1	1617.0	1610.0
120°	1891.2	1870.1	1842.0	1835.0	1813.9	1806.9	1750.6	1715.5	1708.4
122.5°	2088.1	2052.9	1996.7	1968.6	1961.5	1940.4	1870.1	1856.1	1835.0
125°	2256.8	2242.7	2207.6	2186.5	2158.4	2095.1	2017.8	1982.6	1996.7
127.5°	2418.5	2411.5	2397.4	2369.3	2334.1	2306.0	2242.7	2186.5	2172.4
130°	2552.1	2559.1	2538.0	2516.9	2495.8	2467.7	2397.4	2362.3	2362.3
132.5°	2678.6	2685.7	2699.7	2643.5	2629.4	2601.3	2538.0	2495.8	2509.9
135°	2777.1	2791.1	2770.0	2748.9	2734.9	2706.8	2643.5	2622.4	2629.4
137.5°	2910.7	2896.6	2875.5	2861.4	2826.3	2819.3	2770.0	2734.9	2720.8
140°	2995.0	3002.0	3002.0	2966.9	2931.7	2917.7	2868.5	2833.3	2840.3
142.5°	3107.5	3079.4	3093.4	3058.3	3037.2	3016.1	2952.8	2945.8	2945.8
145°	3191.9	3177.8	3170.8	3142.7	3135.6	3093.4	3072.4	3037.2	3058.3
147.5°	3283.3	3283.3	3283.3	3220.0	3205.9	3184.8	3163.8	3135.6	3156.7
150°	3416.9	3367.6	3353.6	3318.4	3290.3	3276.2	3227.0	3213.0	3234.1
152.5°	3522.3	3466.1	3423.9	3402.8	3395.8	3374.7	3346.5	3325.5	3325.5
155°	3648.9	3571.5	3571.5	3494.2	3473.1	3459.0	3430.9	3423.9	3430.9
157.5°	3782.4	3712.1	3677.0	3634.8	3599.6	3585.6	3550.4	3536.4	3550.4
160°	3880.9	3873.8	3796.5	3775.4	3740.3	3719.2	3712.1	3677.0	3677.0
162.5°	4035.5	3937.1	3923.1	3902.0	3873.8	3845.7	3831.7	3817.6	3831.7
165°	4119.9	4091.8	4056.6	4028.5	4007.4	4000.4	3958.2	3972.3	3965.2
167.5°	4218.3	4197.2	4162.1	4141.0	4148.0	4119.9	4119.9	4084.8	4091.8
170°	4288.6	4302.7	4260.5	4239.4	4225.4	4225.4	4197.2	4197.2	4211.3
172.5°	4337.9	4358.9	4323.8	4309.7	4295.7	4309.7	4281.6	4274.6	4288.6
175°	4351.9	4380.0	4351.9	4344.9	4330.8	4373.0	4323.8	4323.8	4295.7
177.5°	4337.9	4344.9	4373.0	4330.8	4330.8	4344.9	4351.9	4295.7	4330.8
180°	4316.8	4316.8	4316.8	4316.8	4316.8	4316.8	4316.8	4316.8	4316.8

(END OF REPORT)