

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: P508461

Luminaire Tested: **ASYX-X-S4-X-U-F-L35-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P508461  
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-S4-X-U-F-L35-1-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: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

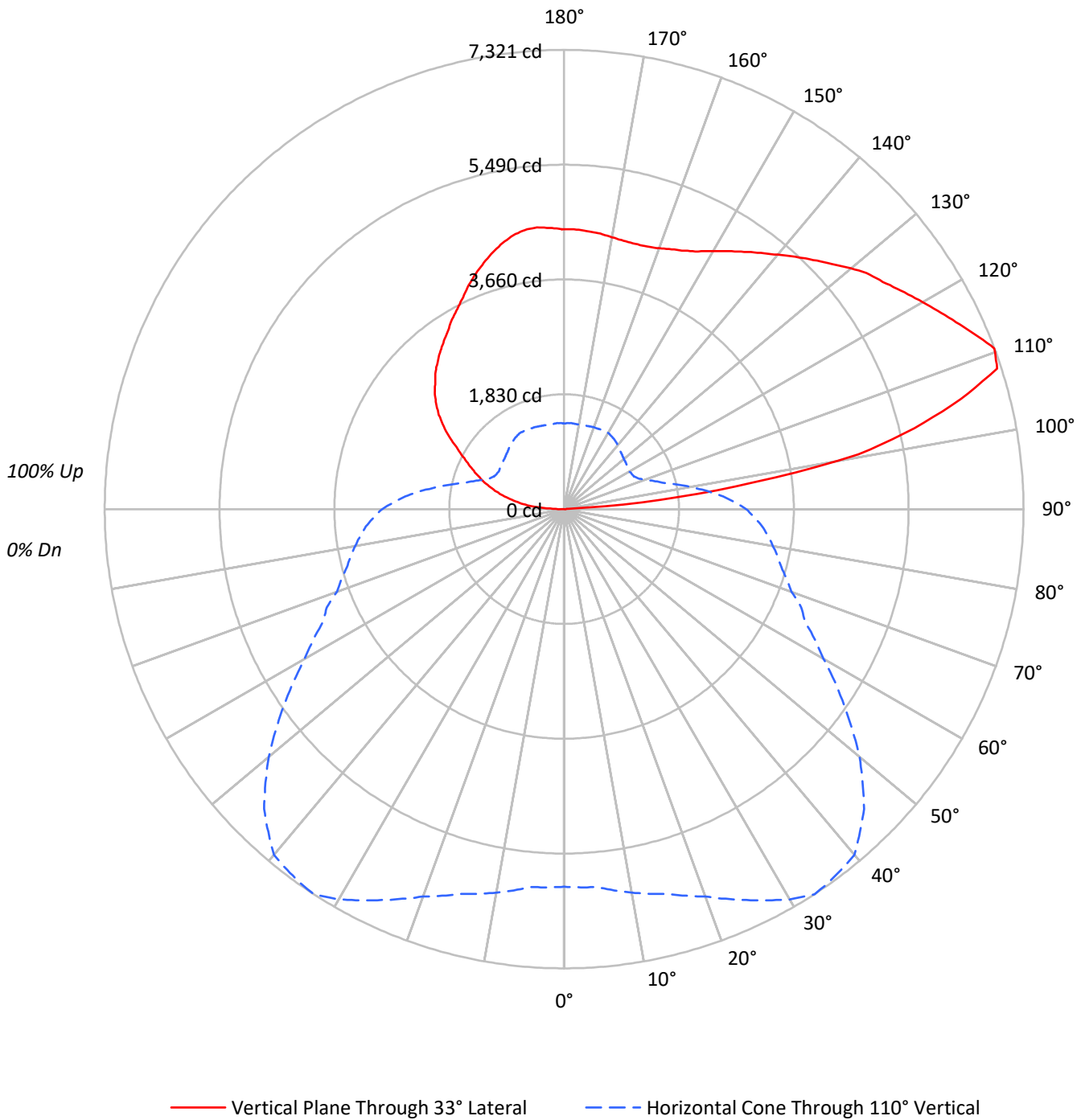
Lumens per Lamp: N/A  
Luminaire Lumens: 21183.5 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
N/A  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
CIE Type: Indirect

Input Watts (W): 215.1  
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: P508461  
CATALOG NUMBER: ASYX-X-S4-X-U-F-L35-1-UNV-X-X-X-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P508461

CATALOG NUMBER: ASYX-X-S4-X-U-F-L35-1-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°	77213	29628	64641
100°	196021	63090	53172
105°	190472	69840	45348
110°	189437	91286	43012
115°	165158	103501	39437
120°	137251	101725	38029
125°	116916	94815	38745
130°	99945	86918	40903
135°	85984	79898	41388
140°	74976	73751	41267
145°	65913	68014	41554
150°	57828	63520	41563
155°	53098	59575	42134
160°	49130	55543	43551
165°	47472	52576	45690
170°	47276	50217	47595
175°	48386	48622	47994



TEST NUMBER: P508461

CATALOG NUMBER: ASYX-X-S4-X-U-F-L35-1-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°	768.9	3.6
100°-110°	2836.0	13.4
110°-120°	3848.1	18.2
120°-130°	3831.0	18.1
130°-140°	3410.5	16.1
140°-150°	2771.4	13.1
150°-160°	2035.0	9.6
160°-170°	1255.8	5.9
170°-180°	426.7	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°	7453.1	35.2
90°-150°	17466.1	82.5
90°-180°	21184.0	100.0
0°-180°	21183.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	625	923	240	364	523	1036
105°	4580	6150	1679	989	1090	4874
115°	6484	6674	4064	1578	1548	6341
125°	6230	6230	5052	2239	2065	5568
135°	5648	5670	5249	2828	2719	4400
145°	5016	5031	5176	3351	3162	3155
155°	4471	4624	5016	3933	3548	2063
165°	4260	4413	4718	4369	4100	1217
175°	4478	4434	4500	4500	4442	421
180°	4464	4464	4464	4464	4464	



TEST NUMBER: P508461

CATALOG NUMBER: ASYX-X-S4-X-U-F-L35-1-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°	36.3	36.3	36.3	43.6	50.9	50.9	65.4	72.7	65.4	94.5	109.0
95°	625.2	719.7	1032.3	1228.6	1214.0	1148.6	1221.3	1432.1	1541.2	1403.0	1192.2
97.5°	1570.2	1628.4	2275.4	2580.7	2849.7	2980.6	3096.9	3002.4	3053.3	3024.2	2755.2
100°	3162.3	3351.3	3576.7	3889.3	4274.6	4550.8	4761.6	4928.8	4768.9	4514.5	3773.0
102.5°	4049.2	4114.6	4267.3	4427.2	4841.6	5045.1	5256.0	5619.4	5728.5	5677.6	5277.8
105°	4579.9	4616.2	4761.6	5001.5	5321.4	5546.8	5808.5	6281.0	6557.2	6586.3	6615.4
107.5°	5248.7	5328.7	5503.1	5655.8	6033.8	6295.5	6528.2	7015.2	7255.1	7269.7	7167.9
110°	6019.3	6048.4	6208.3	6353.7	6571.8	6724.4	6877.1	7182.4	7320.5	7298.7	7197.0
112.5°	6433.7	6470.0	6528.2	6579.0	6680.8	6746.2	6840.8	7037.0	7117.0	7138.8	7037.0
115°	6484.5	6484.5	6528.2	6535.4	6651.7	6651.7	6695.4	6884.4	6920.7	6949.8	6891.6
117.5°	6440.9	6455.5	6484.5	6470.0	6520.9	6593.6	6579.0	6695.4	6739.0	6717.2	6739.0
120°	6375.5	6361.0	6419.1	6390.0	6426.4	6470.0	6440.9	6528.2	6564.5	6550.0	6622.7
122.5°	6310.1	6310.1	6331.9	6324.6	6310.1	6295.5	6302.8	6361.0	6397.3	6390.0	6433.7
125°	6230.1	6222.8	6215.6	6186.5	6222.8	6201.0	6164.7	6208.3	6237.4	6222.8	6266.4
127.5°	6099.2	6106.5	6092.0	6077.4	6033.8	6026.5	6062.9	6041.1	6113.8	6070.2	6113.8
130°	5968.4	5968.4	5953.9	5924.8	5910.2	5881.2	5873.9	5888.4	5932.0	5946.6	5881.2
132.5°	5866.6	5815.7	5779.4	5757.6	5757.6	5728.5	5714.0	5728.5	5750.3	5786.7	5793.9
135°	5648.5	5619.4	5619.4	5590.4	5634.0	5568.6	5554.0	5575.8	5583.1	5583.1	5626.7
137.5°	5524.9	5452.2	5423.2	5415.9	5408.6	5386.8	5386.8	5415.9	5423.2	5415.9	5452.2
140°	5335.9	5256.0	5285.0	5248.7	5256.0	5219.6	5234.2	5234.2	5263.2	5263.2	5299.6
142.5°	5226.9	5110.6	5096.0	5074.2	5081.5	5067.0	5139.7	5088.8	5117.8	5168.7	5146.9
145°	5016.1	4921.6	4943.4	4921.6	4928.8	4914.3	4950.6	4943.4	4979.7	4972.4	5008.8
147.5°	4790.7	4783.4	4790.7	4776.2	4790.7	4776.2	4819.8	4812.5	4848.9	4870.7	4877.9
150°	4652.6	4623.5	4630.8	4645.3	4630.8	4659.9	4659.9	4688.9	4725.3	4732.5	4761.6
152.5°	4507.2	4499.9	4536.3	4514.5	4529.0	4529.0	4550.8	4558.1	4609.0	4616.2	4688.9
155°	4470.8	4405.4	4405.4	4398.1	4434.5	4434.5	4463.6	4507.2	4529.0	4565.3	4572.6
157.5°	4340.0	4332.7	4332.7	4361.8	4325.4	4369.1	4434.5	4412.7	4470.8	4478.1	4507.2
160°	4289.1	4267.3	4281.8	4296.4	4296.4	4332.7	4383.6	4376.3	4412.7	4456.3	4463.6
162.5°	4318.2	4245.5	4252.8	4289.1	4274.6	4325.4	4332.7	4347.3	4383.6	4398.1	4441.8
165°	4260.0	4238.2	4223.7	4238.2	4281.8	4303.6	4325.4	4340.0	4376.3	4383.6	4405.4
167.5°	4281.8	4274.6	4274.6	4289.1	4318.2	4318.2	4354.5	4347.3	4383.6	4383.6	4398.1
170°	4325.4	4303.6	4318.2	4347.3	4296.4	4376.3	4369.1	4347.3	4405.4	4405.4	4427.2
172.5°	4383.6	4361.8	4369.1	4369.1	4369.1	4412.7	4420.0	4427.2	4434.5	4427.2	4427.2
175°	4478.1	4420.0	4412.7	4412.7	4427.2	4427.2	4441.8	4405.4	4449.0	4449.0	4441.8
177.5°	4456.3	4434.5	4470.8	4434.5	4420.0	4449.0	4470.8	4441.8	4463.6	4441.8	4463.6
180°	4463.6	4463.6	4463.6	4463.6	4463.6	4463.6	4463.6	4463.6	4463.6	4463.6	4463.6



TEST NUMBER: P508461

CATALOG NUMBER: ASYX-X-S4-X-U-F-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°	94.5	94.5	94.5	87.2	80.0	80.0	80.0	80.0	72.7	65.4	65.4
95°	923.2	734.2	668.8	552.5	465.3	428.9	370.8	370.8	276.2	225.4	239.9
97.5°	2319.0	1802.9	1432.1	1083.2	1032.3	966.9	959.6	814.2	719.7	654.3	567.0
100°	3009.6	2471.7	2144.6	1962.8	1722.9	1613.9	1533.9	1381.2	1286.7	1155.9	1017.8
102.5°	4470.8	3714.8	3075.1	2537.1	2173.6	2021.0	1919.2	1759.3	1642.9	1512.1	1337.6
105°	6150.1	5088.8	4020.1	3213.2	2726.1	2529.8	2355.4	2195.4	2042.8	1839.2	1679.3
107.5°	6600.9	5830.3	5023.3	4121.9	3445.8	3249.5	3046.0	2777.0	2573.5	2399.0	2122.7
110°	6760.8	6142.9	5445.0	4776.2	4230.9	4092.8	3852.9	3583.9	3380.4	3169.6	2900.6
112.5°	6695.4	6310.1	5750.3	5154.2	4710.7	4572.6	4398.1	4230.9	4121.9	3962.0	3605.8
115°	6673.5	6361.0	5968.4	5437.7	5037.9	4885.2	4747.1	4594.4	4565.3	4456.3	4063.7
117.5°	6579.0	6368.2	6070.2	5641.3	5285.0	5183.3	5045.1	4921.6	4907.0	4798.0	4456.3
120°	6513.6	6339.1	6084.7	5801.2	5495.9	5386.8	5270.5	5176.0	5132.4	5052.4	4725.3
122.5°	6361.0	6295.5	6099.2	5859.3	5583.1	5532.2	5423.2	5263.2	5335.9	5248.7	4936.1
125°	6230.1	6193.8	6142.9	5852.1	5655.8	5590.4	5510.4	5415.9	5437.7	5379.5	5052.4
127.5°	6092.0	6084.7	6048.4	5873.9	5692.1	5663.1	5568.6	5495.9	5481.3	5423.2	5132.4
130°	5982.9	5975.7	5924.8	5808.5	5692.1	5684.9	5590.4	5532.2	5524.9	5474.1	5190.5
132.5°	5823.0	5823.0	5852.1	5735.8	5663.1	5641.3	5597.6	5524.9	5546.8	5437.7	5219.6
135°	5670.3	5677.6	5699.4	5641.3	5684.9	5604.9	5561.3	5466.8	5510.4	5466.8	5248.7
137.5°	5495.9	5517.7	5561.3	5539.5	5561.3	5568.6	5510.4	5488.6	5488.6	5445.0	5241.4
140°	5285.0	5372.3	5452.2	5445.0	5488.6	5481.3	5459.5	5357.7	5452.2	5423.2	5248.7
142.5°	5190.5	5241.4	5335.9	5314.1	5408.6	5408.6	5394.1	5386.8	5408.6	5357.7	5219.6
145°	5030.6	5110.6	5183.3	5226.9	5285.0	5343.2	5321.4	5335.9	5343.2	5343.2	5176.0
147.5°	4928.8	5016.1	5110.6	5125.1	5226.9	5241.4	5248.7	5270.5	5314.1	5256.0	5190.5
150°	4819.8	4877.9	4987.0	5030.6	5139.7	5161.5	5154.2	5183.3	5256.0	5212.3	5110.6
152.5°	4652.6	4776.2	4870.7	4936.1	5016.1	5067.0	5074.2	5074.2	5139.7	5139.7	5081.5
155°	4623.5	4688.9	4776.2	4841.6	4928.8	4979.7	4987.0	4987.0	5052.4	5030.6	5016.1
157.5°	4558.1	4645.3	4718.0	4739.8	4848.9	4892.5	4892.5	4907.0	4965.2	4979.7	4928.8
160°	4514.5	4558.1	4645.3	4710.7	4768.9	4819.8	4827.1	4841.6	4877.9	4870.7	4848.9
162.5°	4449.0	4514.5	4594.4	4630.8	4696.2	4747.1	4739.8	4739.8	4805.2	4819.8	4790.7
165°	4412.7	4485.4	4579.9	4601.7	4645.3	4674.4	4667.1	4688.9	4747.1	4732.5	4718.0
167.5°	4427.2	4463.6	4543.5	4536.3	4587.2	4609.0	4609.0	4594.4	4630.8	4579.9	4623.5
170°	4449.0	4449.0	4492.7	4507.2	4550.8	4572.6	4550.8	4550.8	4572.6	4587.2	4594.4
172.5°	4456.3	4449.0	4485.4	4478.1	4492.7	4529.0	4507.2	4478.1	4521.7	4550.8	4514.5
175°	4434.5	4441.8	4499.9	4485.4	4463.6	4499.9	4463.6	4456.3	4521.7	4514.5	4499.9
177.5°	4412.7	4412.7	4449.0	4420.0	4470.8	4470.8	4434.5	4434.5	4507.2	4456.3	4441.8
180°	4463.6	4463.6	4463.6	4463.6	4463.6	4463.6	4463.6	4463.6	4463.6	4463.6	4463.6



TEST NUMBER: P508461

CATALOG NUMBER: ASYX-X-S4-X-U-F-L35-1-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°	72.7	80.0	87.2	101.8	109.0	116.3	130.9	145.4	167.2	167.2	196.3
95°	232.6	239.9	239.9	254.4	261.7	261.7	269.0	298.1	327.1	363.5	428.9
97.5°	494.3	436.2	421.6	421.6	428.9	428.9	436.2	450.7	472.5	516.1	581.6
100°	872.4	741.5	647.0	596.1	581.6	574.3	581.6	581.6	617.9	676.1	748.8
102.5°	1141.3	966.9	806.9	734.2	705.2	712.4	705.2	719.7	770.6	821.5	901.4
105°	1439.4	1214.0	1010.5	901.4	857.8	850.6	850.6	865.1	923.2	988.7	1046.8
107.5°	1846.5	1563.0	1264.9	1105.0	1039.6	1025.0	1025.0	1046.8	1083.2	1126.8	1192.2
110°	2500.8	2035.5	1621.1	1366.7	1279.5	1228.6	1199.5	1221.3	1243.1	1279.5	1330.3
112.5°	3111.4	2537.1	1991.9	1606.6	1490.3	1410.3	1366.7	1366.7	1395.8	1424.9	1461.2
115°	3533.1	2893.3	2304.5	1853.8	1686.6	1613.9	1519.4	1526.6	1548.4	1577.5	1599.3
117.5°	3911.1	3227.7	2566.2	2086.4	1897.4	1781.1	1686.6	1664.8	1708.4	1744.7	1759.3
120°	4180.1	3518.5	2827.9	2326.3	2108.2	1977.3	1846.5	1824.7	1868.3	1875.6	1948.3
122.5°	4405.4	3729.3	3053.3	2537.1	2304.5	2195.4	2035.5	2006.4	2035.5	2086.4	2144.6
125°	4550.8	3918.3	3256.8	2733.4	2515.3	2369.9	2202.7	2180.9	2202.7	2239.1	2304.5
127.5°	4667.1	4071.0	3453.1	2936.9	2682.5	2566.2	2399.0	2355.4	2384.4	2399.0	2471.7
130°	4754.4	4245.5	3634.8	3133.2	2907.9	2791.5	2566.2	2522.6	2537.1	2573.5	2609.8
132.5°	4841.6	4354.5	3816.6	3336.8	3118.7	2987.8	2769.7	2675.2	2682.5	2711.6	2747.9
135°	4899.8	4470.8	4005.6	3540.3	3300.4	3198.7	2966.0	2871.5	2835.2	2827.9	2871.5
137.5°	4957.9	4579.9	4151.0	3729.3	3525.8	3409.5	3133.2	3024.2	2987.8	2980.6	2995.1
140°	5008.8	4674.4	4281.8	3932.9	3729.3	3591.2	3336.8	3198.7	3140.5	3111.4	3126.0
142.5°	5030.6	4754.4	4420.0	4151.0	3903.8	3743.9	3533.1	3394.9	3271.3	3235.0	3205.9
145°	5045.1	4877.9	4550.8	4289.1	4100.1	4005.6	3751.1	3569.4	3424.0	3351.3	3336.8
147.5°	5045.1	4870.7	4638.0	4405.4	4245.5	4143.7	3867.5	3751.1	3634.8	3511.2	3453.1
150°	5030.6	4950.6	4703.5	4521.7	4354.5	4274.6	4078.3	3860.2	3736.6	3649.4	3583.9
152.5°	4994.3	4885.2	4739.8	4579.9	4456.3	4405.4	4180.1	4041.9	3911.1	3780.2	3729.3
155°	4957.9	4870.7	4761.6	4630.8	4529.0	4463.6	4303.6	4165.5	4071.0	3932.9	3882.0
157.5°	4914.3	4856.1	4761.6	4688.9	4572.6	4529.0	4369.1	4274.6	4194.6	4056.5	3991.0
160°	4848.9	4812.5	4754.4	4652.6	4601.7	4565.3	4434.5	4361.8	4281.8	4180.1	4129.2
162.5°	4783.4	4790.7	4718.0	4696.2	4616.2	4587.2	4499.9	4420.0	4340.0	4281.8	4238.2
165°	4732.5	4761.6	4688.9	4616.2	4616.2	4601.7	4507.2	4470.8	4434.5	4369.1	4318.2
167.5°	4638.0	4674.4	4674.4	4587.2	4579.9	4601.7	4543.5	4507.2	4478.1	4427.2	4398.1
170°	4623.5	4623.5	4572.6	4579.9	4601.7	4550.8	4514.5	4507.2	4507.2	4478.1	4456.3
172.5°	4536.3	4579.9	4558.1	4543.5	4521.7	4521.7	4499.9	4507.2	4492.7	4499.9	4492.7
175°	4507.2	4514.5	4521.7	4514.5	4492.7	4492.7	4485.4	4492.7	4499.9	4499.9	4485.4
177.5°	4463.6	4485.4	4521.7	4485.4	4499.9	4470.8	4463.6	4478.1	4478.1	4485.4	4470.8
180°	4463.6	4463.6	4463.6	4463.6	4463.6	4463.6	4463.6	4463.6	4463.6	4463.6	4463.6





TEST NUMBER: P508461

CATALOG NUMBER: ASYX-X-S4-X-U-F-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°	218.1	232.6	239.9	247.2	254.4	232.6	232.6	210.8	196.3
95°	465.3	501.6	501.6	501.6	523.4	538.0	530.7	523.4	523.4
97.5°	632.5	690.6	734.2	741.5	741.5	741.5	748.8	748.8	734.2
100°	799.7	828.7	857.8	865.1	857.8	857.8	850.6	865.1	857.8
102.5°	959.6	988.7	995.9	1003.2	995.9	988.7	974.1	988.7	959.6
105°	1097.7	1126.8	1119.5	1112.3	1105.0	1090.4	1075.9	1097.7	1090.4
107.5°	1250.4	1257.7	1264.9	1272.2	1243.1	1235.8	1235.8	1250.4	1243.1
110°	1374.0	1403.0	1395.8	1388.5	1388.5	1374.0	1366.7	1374.0	1366.7
112.5°	1504.8	1519.4	1512.1	1512.1	1504.8	1483.0	1461.2	1468.5	1461.2
115°	1642.9	1650.2	1642.9	1628.4	1613.9	1599.3	1570.2	1555.7	1548.4
117.5°	1788.3	1781.1	1766.5	1759.3	1744.7	1737.4	1693.8	1672.0	1664.8
120°	1955.5	1933.7	1904.7	1897.4	1875.6	1868.3	1810.1	1773.8	1766.5
122.5°	2159.1	2122.7	2064.6	2035.5	2028.2	2006.4	1933.7	1919.2	1897.4
125°	2333.6	2319.0	2282.7	2260.9	2231.8	2166.4	2086.4	2050.0	2064.6
127.5°	2500.8	2493.5	2479.0	2449.9	2413.5	2384.4	2319.0	2260.9	2246.3
130°	2638.9	2646.2	2624.3	2602.5	2580.7	2551.7	2479.0	2442.6	2442.6
132.5°	2769.7	2777.0	2791.5	2733.4	2718.9	2689.8	2624.3	2580.7	2595.3
135°	2871.5	2886.1	2864.2	2842.4	2827.9	2798.8	2733.4	2711.6	2718.9
137.5°	3009.6	2995.1	2973.3	2958.8	2922.4	2915.1	2864.2	2827.9	2813.4
140°	3096.9	3104.1	3104.1	3067.8	3031.4	3016.9	2966.0	2929.7	2936.9
142.5°	3213.2	3184.1	3198.7	3162.3	3140.5	3118.7	3053.3	3046.0	3046.0
145°	3300.4	3285.9	3278.6	3249.5	3242.3	3198.7	3176.8	3140.5	3162.3
147.5°	3394.9	3394.9	3394.9	3329.5	3315.0	3293.2	3271.3	3242.3	3264.1
150°	3533.1	3482.2	3467.6	3431.3	3402.2	3387.7	3336.8	3322.2	3344.0
152.5°	3642.1	3583.9	3540.3	3518.5	3511.2	3489.4	3460.4	3438.5	3438.5
155°	3773.0	3693.0	3693.0	3613.0	3591.2	3576.7	3547.6	3540.3	3547.6
157.5°	3911.1	3838.4	3802.0	3758.4	3722.1	3707.5	3671.2	3656.6	3671.2
160°	4012.9	4005.6	3925.6	3903.8	3867.5	3845.7	3838.4	3802.0	3802.0
162.5°	4172.8	4071.0	4056.5	4034.7	4005.6	3976.5	3962.0	3947.4	3962.0
165°	4260.0	4230.9	4194.6	4165.5	4143.7	4136.4	4092.8	4107.4	4100.1
167.5°	4361.8	4340.0	4303.6	4281.8	4289.1	4260.0	4260.0	4223.7	4230.9
170°	4434.5	4449.0	4405.4	4383.6	4369.1	4369.1	4340.0	4340.0	4354.5
172.5°	4485.4	4507.2	4470.8	4456.3	4441.8	4456.3	4427.2	4420.0	4434.5
175°	4499.9	4529.0	4499.9	4492.7	4478.1	4521.7	4470.8	4470.8	4441.8
177.5°	4485.4	4492.7	4521.7	4478.1	4478.1	4492.7	4499.9	4441.8	4478.1
180°	4463.6	4463.6	4463.6	4463.6	4463.6	4463.6	4463.6	4463.6	4463.6

(END OF REPORT)