

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: P508460

Luminaire Tested: **ASYX-X-S4-X-U-F-L30-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P508460  
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-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**

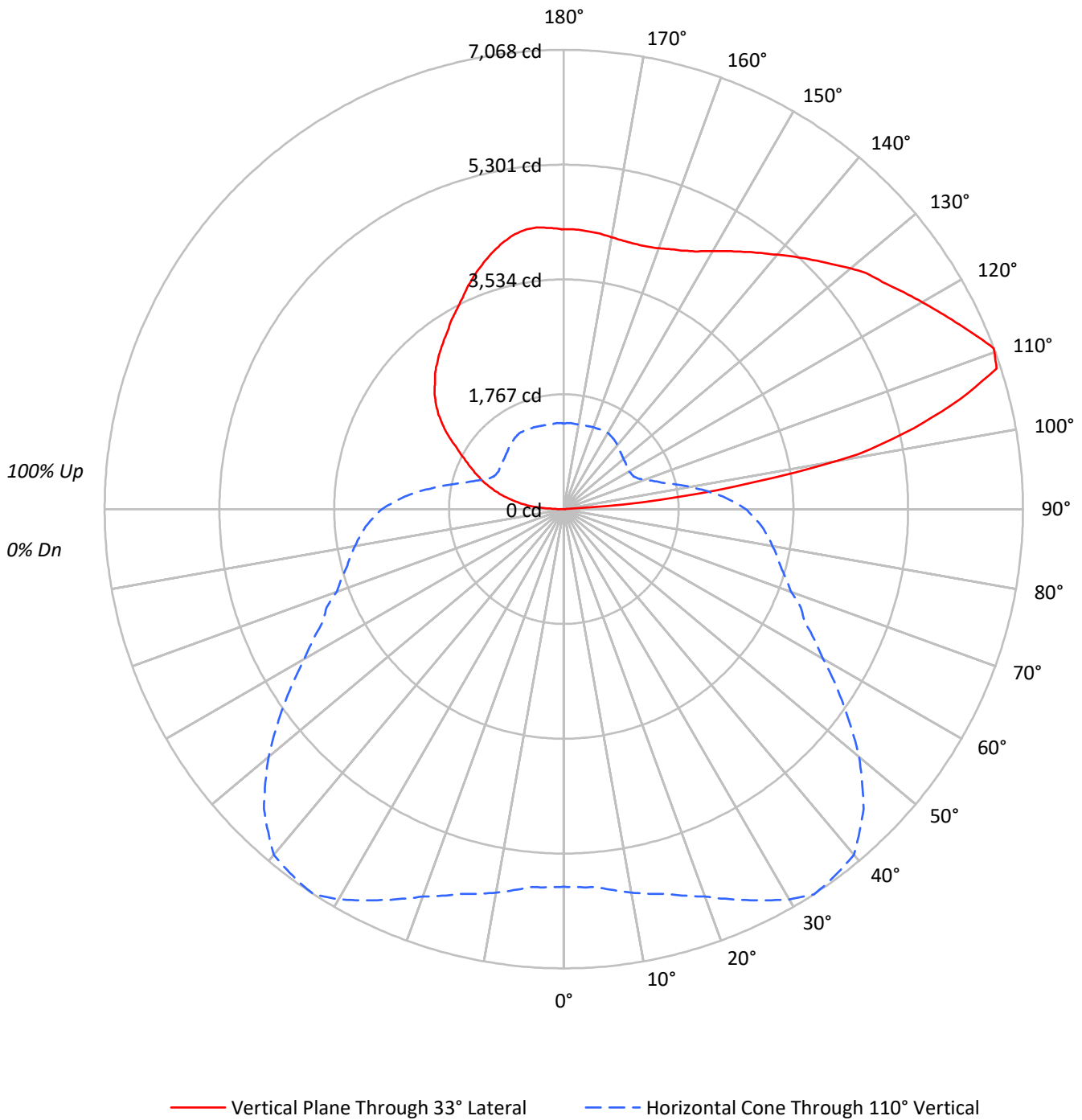
Lumens per Lamp: N/A  
Luminaire Lumens: 20453.0 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
N/A  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
CIE Type: Indirect

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: P508460  
CATALOG NUMBER: ASYX-X-S4-X-U-F-L30-1-UNV-X-X-X-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P508460

CATALOG NUMBER: ASYX-X-S4-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°	74546	28603	62418
100°	189265	60915	51338
105°	183905	67432	43784
110°	182903	88139	41530
115°	159463	99932	38077
120°	132517	98216	36718
125°	112885	91546	37409
130°	96499	83923	39493
135°	83019	77143	39961
140°	72391	71208	39845
145°	63640	65669	40121
150°	55833	61329	40130
155°	51268	57520	40681
160°	47436	53628	42049
165°	45835	50763	44114
170°	45647	48485	45954
175°	46718	46946	46338



TEST NUMBER: P508460

CATALOG NUMBER: ASYX-X-S4-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°	742.4	3.6
100°-110°	2738.2	13.4
110°-120°	3715.4	18.2
120°-130°	3698.9	18.1
130°-140°	3292.9	16.1
140°-150°	2675.9	13.1
150°-160°	1964.8	9.6
160°-170°	1212.5	5.9
170°-180°	411.9	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°	7196.1	35.2
90°-150°	16863.8	82.5
90°-180°	20453.0	100.0
0°-180°	20453.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	604	891	232	351	505	1000
105°	4422	5938	1621	955	1053	4706
115°	6261	6443	3924	1523	1495	6122
125°	6015	6015	4878	2162	1993	5376
135°	5454	5475	5068	2730	2625	4249
145°	4843	4857	4998	3236	3053	3046
155°	4317	4464	4843	3797	3425	1992
165°	4113	4260	4555	4218	3959	1175
175°	4324	4282	4345	4345	4289	406
180°	4310	4310	4310	4310	4310	



TEST NUMBER: P508460

CATALOG NUMBER: ASYX-X-S4-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°	35.1	35.1	35.1	42.1	49.1	49.1	63.2	70.2	63.2	91.2	105.3
95°	603.6	694.9	996.7	1186.2	1172.2	1109.0	1179.2	1382.7	1488.0	1354.7	1151.1
97.5°	1516.1	1572.3	2196.9	2491.7	2751.4	2877.8	2990.1	2898.8	2948.0	2919.9	2660.2
100°	3053.3	3235.8	3453.3	3755.2	4127.2	4393.9	4597.4	4758.9	4604.5	4358.8	3642.9
102.5°	3909.6	3972.7	4120.1	4274.6	4674.6	4871.2	5074.7	5425.7	5531.0	5481.8	5095.8
105°	4422.0	4457.1	4597.4	4829.1	5137.9	5355.5	5608.2	6064.4	6331.1	6359.2	6387.3
107.5°	5067.7	5144.9	5313.4	5460.8	5825.8	6078.4	6303.0	6773.3	7004.9	7019.0	6920.7
110°	5811.7	5839.8	5994.2	6134.6	6345.2	6492.6	6640.0	6934.8	7068.1	7047.1	6948.8
112.5°	6211.8	6246.9	6303.0	6352.2	6450.4	6513.6	6604.9	6794.4	6871.6	6892.6	6794.4
115°	6260.9	6260.9	6303.0	6310.1	6422.4	6422.4	6464.5	6647.0	6682.1	6710.1	6654.0
117.5°	6218.8	6232.9	6260.9	6246.9	6296.0	6366.2	6352.2	6464.5	6506.6	6485.5	6506.6
120°	6155.6	6141.6	6197.8	6169.7	6204.8	6246.9	6218.8	6303.0	6338.1	6324.1	6394.3
122.5°	6092.5	6092.5	6113.5	6106.5	6092.5	6078.4	6085.5	6141.6	6176.7	6169.7	6211.8
125°	6015.3	6008.2	6001.2	5973.2	6008.2	5987.2	5952.1	5994.2	6022.3	6008.2	6050.4
127.5°	5888.9	5895.9	5881.9	5867.9	5825.8	5818.7	5853.8	5832.8	5903.0	5860.9	5903.0
130°	5762.6	5762.6	5748.5	5720.5	5706.4	5678.4	5671.3	5685.4	5727.5	5741.5	5678.4
132.5°	5664.3	5615.2	5580.1	5559.0	5559.0	5531.0	5516.9	5531.0	5552.0	5587.1	5594.1
135°	5453.7	5425.7	5425.7	5397.6	5439.7	5376.5	5362.5	5383.6	5390.6	5390.6	5432.7
137.5°	5334.4	5264.2	5236.2	5229.1	5222.1	5201.1	5201.1	5229.1	5236.2	5229.1	5264.2
140°	5151.9	5074.7	5102.8	5067.7	5074.7	5039.6	5053.7	5053.7	5081.7	5081.7	5116.8
142.5°	5046.6	4934.3	4920.3	4899.3	4906.3	4892.2	4962.4	4913.3	4941.4	4990.5	4969.4
145°	4843.1	4751.9	4772.9	4751.9	4758.9	4744.8	4779.9	4772.9	4808.0	4801.0	4836.1
147.5°	4625.5	4618.5	4625.5	4611.5	4625.5	4611.5	4653.6	4646.6	4681.7	4702.7	4709.7
150°	4492.1	4464.1	4471.1	4485.1	4471.1	4499.2	4499.2	4527.2	4562.3	4569.4	4597.4
152.5°	4351.8	4344.8	4379.8	4358.8	4372.8	4372.8	4393.9	4400.9	4450.0	4457.1	4527.2
155°	4316.7	4253.5	4253.5	4246.5	4281.6	4281.6	4309.7	4351.8	4372.8	4407.9	4414.9
157.5°	4190.3	4183.3	4183.3	4211.4	4176.3	4218.4	4281.6	4260.5	4316.7	4323.7	4351.8
160°	4141.2	4120.1	4134.2	4148.2	4148.2	4183.3	4232.4	4225.4	4260.5	4302.6	4309.7
162.5°	4169.3	4099.1	4106.1	4141.2	4127.2	4176.3	4183.3	4197.4	4232.4	4246.5	4288.6
165°	4113.1	4092.1	4078.0	4092.1	4134.2	4155.2	4176.3	4190.3	4225.4	4232.4	4253.5
167.5°	4134.2	4127.2	4127.2	4141.2	4169.3	4169.3	4204.4	4197.4	4232.4	4232.4	4246.5
170°	4176.3	4155.2	4169.3	4197.4	4148.2	4225.4	4218.4	4197.4	4253.5	4253.5	4274.6
172.5°	4232.4	4211.4	4218.4	4218.4	4218.4	4260.5	4267.5	4274.6	4281.6	4274.6	4274.6
175°	4323.7	4267.5	4260.5	4260.5	4274.6	4274.6	4288.6	4253.5	4295.6	4295.6	4288.6
177.5°	4302.6	4281.6	4316.7	4281.6	4267.5	4295.6	4316.7	4288.6	4309.7	4288.6	4309.7
180°	4309.7	4309.7	4309.7	4309.7	4309.7	4309.7	4309.7	4309.7	4309.7	4309.7	4309.7



TEST NUMBER: P508460

CATALOG NUMBER: ASYX-X-S4-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°	91.2	91.2	91.2	84.2	77.2	77.2	77.2	77.2	70.2	63.2	63.2
95°	891.4	708.9	645.7	533.4	449.2	414.1	358.0	358.0	266.7	217.6	231.6
97.5°	2239.1	1740.7	1382.7	1045.8	996.7	933.5	926.5	786.1	694.9	631.7	547.5
100°	2905.9	2386.5	2070.6	1895.1	1663.5	1558.2	1481.0	1333.6	1242.4	1116.0	982.7
102.5°	4316.7	3586.7	2969.0	2449.6	2098.7	1951.3	1853.0	1698.6	1586.3	1459.9	1291.5
105°	5938.1	4913.3	3881.5	3102.4	2632.1	2442.6	2274.2	2119.7	1972.3	1775.8	1621.4
107.5°	6373.2	5629.2	4850.1	3979.8	3327.0	3137.5	2941.0	2681.3	2484.7	2316.3	2049.5
110°	6527.7	5931.0	5257.2	4611.5	4085.0	3951.7	3720.1	3460.4	3263.8	3060.3	2800.6
112.5°	6464.5	6092.5	5552.0	4976.5	4548.3	4414.9	4246.5	4085.0	3979.8	3825.3	3481.4
115°	6443.4	6141.6	5762.6	5250.2	4864.2	4716.8	4583.4	4436.0	4407.9	4302.6	3923.6
117.5°	6352.2	6148.6	5860.9	5446.7	5102.8	5004.5	4871.2	4751.9	4737.8	4632.5	4302.6
120°	6289.0	6120.6	5874.9	5601.1	5306.4	5201.1	5088.8	4997.5	4955.4	4878.2	4562.3
122.5°	6141.6	6078.4	5888.9	5657.3	5390.6	5341.4	5236.2	5081.7	5151.9	5067.7	4765.9
125°	6015.3	5980.2	5931.0	5650.3	5460.8	5397.6	5320.4	5229.1	5250.2	5194.0	4878.2
127.5°	5881.9	5874.9	5839.8	5671.3	5495.9	5467.8	5376.5	5306.4	5292.3	5236.2	4955.4
130°	5776.6	5769.6	5720.5	5608.2	5495.9	5488.8	5397.6	5341.4	5334.4	5285.3	5011.6
132.5°	5622.2	5622.2	5650.3	5538.0	5467.8	5446.7	5404.6	5334.4	5355.5	5250.2	5039.6
135°	5474.8	5481.8	5502.9	5446.7	5488.8	5411.6	5369.5	5278.3	5320.4	5278.3	5067.7
137.5°	5306.4	5327.4	5369.5	5348.5	5369.5	5376.5	5320.4	5299.3	5299.3	5257.2	5060.7
140°	5102.8	5187.0	5264.2	5257.2	5299.3	5292.3	5271.3	5173.0	5264.2	5236.2	5067.7
142.5°	5011.6	5060.7	5151.9	5130.9	5222.1	5222.1	5208.1	5201.1	5222.1	5173.0	5039.6
145°	4857.1	4934.3	5004.5	5046.6	5102.8	5159.0	5137.9	5151.9	5159.0	5159.0	4997.5
147.5°	4758.9	4843.1	4934.3	4948.4	5046.6	5060.7	5067.7	5088.8	5130.9	5074.7	5011.6
150°	4653.6	4709.7	4815.0	4857.1	4962.4	4983.5	4976.5	5004.5	5074.7	5032.6	4934.3
152.5°	4492.1	4611.5	4702.7	4765.9	4843.1	4892.2	4899.3	4899.3	4962.4	4962.4	4906.3
155°	4464.1	4527.2	4611.5	4674.6	4758.9	4808.0	4815.0	4815.0	4878.2	4857.1	4843.1
157.5°	4400.9	4485.1	4555.3	4576.4	4681.7	4723.8	4723.8	4737.8	4794.0	4808.0	4758.9
160°	4358.8	4400.9	4485.1	4548.3	4604.5	4653.6	4660.6	4674.6	4709.7	4702.7	4681.7
162.5°	4295.6	4358.8	4436.0	4471.1	4534.3	4583.4	4576.4	4576.4	4639.5	4653.6	4625.5
165°	4260.5	4330.7	4422.0	4443.0	4485.1	4513.2	4506.2	4527.2	4583.4	4569.4	4555.3
167.5°	4274.6	4309.7	4386.9	4379.8	4429.0	4450.0	4450.0	4436.0	4471.1	4422.0	4464.1
170°	4295.6	4295.6	4337.7	4351.8	4393.9	4414.9	4393.9	4393.9	4414.9	4429.0	4436.0
172.5°	4302.6	4295.6	4330.7	4323.7	4337.7	4372.8	4351.8	4323.7	4365.8	4393.9	4358.8
175°	4281.6	4288.6	4344.8	4330.7	4309.7	4344.8	4309.7	4302.6	4365.8	4358.8	4344.8
177.5°	4260.5	4260.5	4295.6	4267.5	4316.7	4316.7	4281.6	4281.6	4351.8	4302.6	4288.6
180°	4309.7	4309.7	4309.7	4309.7	4309.7	4309.7	4309.7	4309.7	4309.7	4309.7	4309.7



TEST NUMBER: P508460

CATALOG NUMBER: ASYX-X-S4-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°	70.2	77.2	84.2	98.3	105.3	112.3	126.3	140.4	161.4	161.4	189.5
95°	224.6	231.6	231.6	245.7	252.7	252.7	259.7	287.8	315.9	350.9	414.1
97.5°	477.3	421.1	407.1	407.1	414.1	414.1	421.1	435.2	456.2	498.3	561.5
100°	842.3	715.9	624.7	575.6	561.5	554.5	561.5	561.5	596.6	652.8	723.0
102.5°	1102.0	933.5	779.1	708.9	680.8	687.9	680.8	694.9	744.0	793.1	870.4
105°	1389.8	1172.2	975.6	870.4	828.2	821.2	821.2	835.3	891.4	954.6	1010.7
107.5°	1782.8	1509.1	1221.3	1066.9	1003.7	989.7	989.7	1010.7	1045.8	1087.9	1151.1
110°	2414.5	1965.3	1565.2	1319.6	1235.3	1186.2	1158.1	1179.2	1200.2	1235.3	1284.5
112.5°	3004.1	2449.6	1923.2	1551.2	1438.9	1361.7	1319.6	1319.6	1347.6	1375.7	1410.8
115°	3411.2	2793.6	2225.0	1789.8	1628.4	1558.2	1467.0	1474.0	1495.0	1523.1	1544.2
117.5°	3776.2	3116.4	2477.7	2014.4	1832.0	1719.7	1628.4	1607.3	1649.5	1684.6	1698.6
120°	4035.9	3397.2	2730.4	2246.1	2035.5	1909.2	1782.8	1761.8	1803.9	1810.9	1881.1
122.5°	4253.5	3600.7	2948.0	2449.6	2225.0	2119.7	1965.3	1937.2	1965.3	2014.4	2070.6
125°	4393.9	3783.2	3144.5	2639.1	2428.6	2288.2	2126.8	2105.7	2126.8	2161.8	2225.0
127.5°	4506.2	3930.6	3334.0	2835.7	2590.0	2477.7	2316.3	2274.2	2302.2	2316.3	2386.5
130°	4590.4	4099.1	3509.5	3025.2	2807.6	2695.3	2477.7	2435.6	2449.6	2484.7	2519.8
132.5°	4674.6	4204.4	3685.0	3221.7	3011.1	2884.8	2674.2	2583.0	2590.0	2618.1	2653.2
135°	4730.8	4316.7	3867.5	3418.2	3186.6	3088.4	2863.7	2772.5	2737.4	2730.4	2772.5
137.5°	4786.9	4422.0	4007.8	3600.7	3404.2	3291.9	3025.2	2919.9	2884.8	2877.8	2891.8
140°	4836.1	4513.2	4134.2	3797.3	3600.7	3467.4	3221.7	3088.4	3032.2	3004.1	3018.2
142.5°	4857.1	4590.4	4267.5	4007.8	3769.2	3614.8	3411.2	3277.9	3158.5	3123.4	3095.4
145°	4871.2	4709.7	4393.9	4141.2	3958.7	3867.5	3621.8	3446.3	3305.9	3235.8	3221.7
147.5°	4871.2	4702.7	4478.1	4253.5	4099.1	4000.8	3734.1	3621.8	3509.5	3390.2	3334.0
150°	4857.1	4779.9	4541.3	4365.8	4204.4	4127.2	3937.6	3727.1	3607.8	3523.5	3460.4
152.5°	4822.0	4716.8	4576.4	4422.0	4302.6	4253.5	4035.9	3902.6	3776.2	3649.9	3600.7
155°	4786.9	4702.7	4597.4	4471.1	4372.8	4309.7	4155.2	4021.9	3930.6	3797.3	3748.1
157.5°	4744.8	4688.7	4597.4	4527.2	4414.9	4372.8	4218.4	4127.2	4050.0	3916.6	3853.4
160°	4681.7	4646.6	4590.4	4492.1	4443.0	4407.9	4281.6	4211.4	4134.2	4035.9	3986.8
162.5°	4618.5	4625.5	4555.3	4534.3	4457.1	4429.0	4344.8	4267.5	4190.3	4134.2	4092.1
165°	4569.4	4597.4	4527.2	4457.1	4457.1	4443.0	4351.8	4316.7	4281.6	4218.4	4169.3
167.5°	4478.1	4513.2	4513.2	4429.0	4422.0	4443.0	4386.9	4351.8	4323.7	4274.6	4246.5
170°	4464.1	4464.1	4414.9	4422.0	4443.0	4393.9	4358.8	4351.8	4351.8	4323.7	4302.6
172.5°	4379.8	4422.0	4400.9	4386.9	4365.8	4365.8	4344.8	4351.8	4337.7	4344.8	4337.7
175°	4351.8	4358.8	4365.8	4358.8	4337.7	4337.7	4330.7	4337.7	4344.8	4344.8	4330.7
177.5°	4309.7	4330.7	4365.8	4330.7	4344.8	4316.7	4309.7	4323.7	4323.7	4330.7	4316.7
180°	4309.7	4309.7	4309.7	4309.7	4309.7	4309.7	4309.7	4309.7	4309.7	4309.7	4309.7





TEST NUMBER: P508460

CATALOG NUMBER: ASYX-X-S4-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°	210.6	224.6	231.6	238.6	245.7	224.6	224.6	203.6	189.5
95°	449.2	484.3	484.3	484.3	505.4	519.4	512.4	505.4	505.4
97.5°	610.7	666.8	708.9	715.9	715.9	715.9	723.0	723.0	708.9
100°	772.1	800.2	828.2	835.3	828.2	828.2	821.2	835.3	828.2
102.5°	926.5	954.6	961.6	968.6	961.6	954.6	940.5	954.6	926.5
105°	1059.9	1087.9	1080.9	1073.9	1066.9	1052.8	1038.8	1059.9	1052.8
107.5°	1207.3	1214.3	1221.3	1228.3	1200.2	1193.2	1193.2	1207.3	1200.2
110°	1326.6	1354.7	1347.6	1340.6	1340.6	1326.6	1319.6	1326.6	1319.6
112.5°	1452.9	1467.0	1459.9	1459.9	1452.9	1431.9	1410.8	1417.8	1410.8
115°	1586.3	1593.3	1586.3	1572.3	1558.2	1544.2	1516.1	1502.1	1495.0
117.5°	1726.7	1719.7	1705.6	1698.6	1684.6	1677.5	1635.4	1614.4	1607.3
120°	1888.1	1867.0	1839.0	1832.0	1810.9	1803.9	1747.7	1712.6	1705.6
122.5°	2084.6	2049.5	1993.4	1965.3	1958.3	1937.2	1867.0	1853.0	1832.0
125°	2253.1	2239.1	2204.0	2182.9	2154.8	2091.7	2014.4	1979.4	1993.4
127.5°	2414.5	2407.5	2393.5	2365.4	2330.3	2302.2	2239.1	2182.9	2168.9
130°	2547.9	2554.9	2533.9	2512.8	2491.7	2463.7	2393.5	2358.4	2358.4
132.5°	2674.2	2681.3	2695.3	2639.1	2625.1	2597.0	2533.9	2491.7	2505.8
135°	2772.5	2786.5	2765.5	2744.4	2730.4	2702.3	2639.1	2618.1	2625.1
137.5°	2905.9	2891.8	2870.8	2856.7	2821.6	2814.6	2765.5	2730.4	2716.3
140°	2990.1	2997.1	2997.1	2962.0	2926.9	2912.9	2863.7	2828.7	2835.7
142.5°	3102.4	3074.3	3088.4	3053.3	3032.2	3011.1	2948.0	2941.0	2941.0
145°	3186.6	3172.6	3165.6	3137.5	3130.5	3088.4	3067.3	3032.2	3053.3
147.5°	3277.9	3277.9	3277.9	3214.7	3200.7	3179.6	3158.5	3130.5	3151.5
150°	3411.2	3362.1	3348.1	3313.0	3284.9	3270.8	3221.7	3207.7	3228.7
152.5°	3516.5	3460.4	3418.2	3397.2	3390.2	3369.1	3341.0	3320.0	3320.0
155°	3642.9	3565.6	3565.6	3488.4	3467.4	3453.3	3425.3	3418.2	3425.3
157.5°	3776.2	3706.0	3670.9	3628.8	3593.7	3579.7	3544.6	3530.5	3544.6
160°	3874.5	3867.5	3790.3	3769.2	3734.1	3713.0	3706.0	3670.9	3670.9
162.5°	4028.9	3930.6	3916.6	3895.5	3867.5	3839.4	3825.3	3811.3	3825.3
165°	4113.1	4085.0	4050.0	4021.9	4000.8	3993.8	3951.7	3965.7	3958.7
167.5°	4211.4	4190.3	4155.2	4134.2	4141.2	4113.1	4113.1	4078.0	4085.0
170°	4281.6	4295.6	4253.5	4232.4	4218.4	4218.4	4190.3	4190.3	4204.4
172.5°	4330.7	4351.8	4316.7	4302.6	4288.6	4302.6	4274.6	4267.5	4281.6
175°	4344.8	4372.8	4344.8	4337.7	4323.7	4365.8	4316.7	4316.7	4288.6
177.5°	4330.7	4337.7	4365.8	4323.7	4323.7	4337.7	4344.8	4288.6	4323.7
180°	4309.7	4309.7	4309.7	4309.7	4309.7	4309.7	4309.7	4309.7	4309.7

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