

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: P508459

Luminaire Tested: **ASYX-X-S4-X-U-F-L27-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508459
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-L27-1-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: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

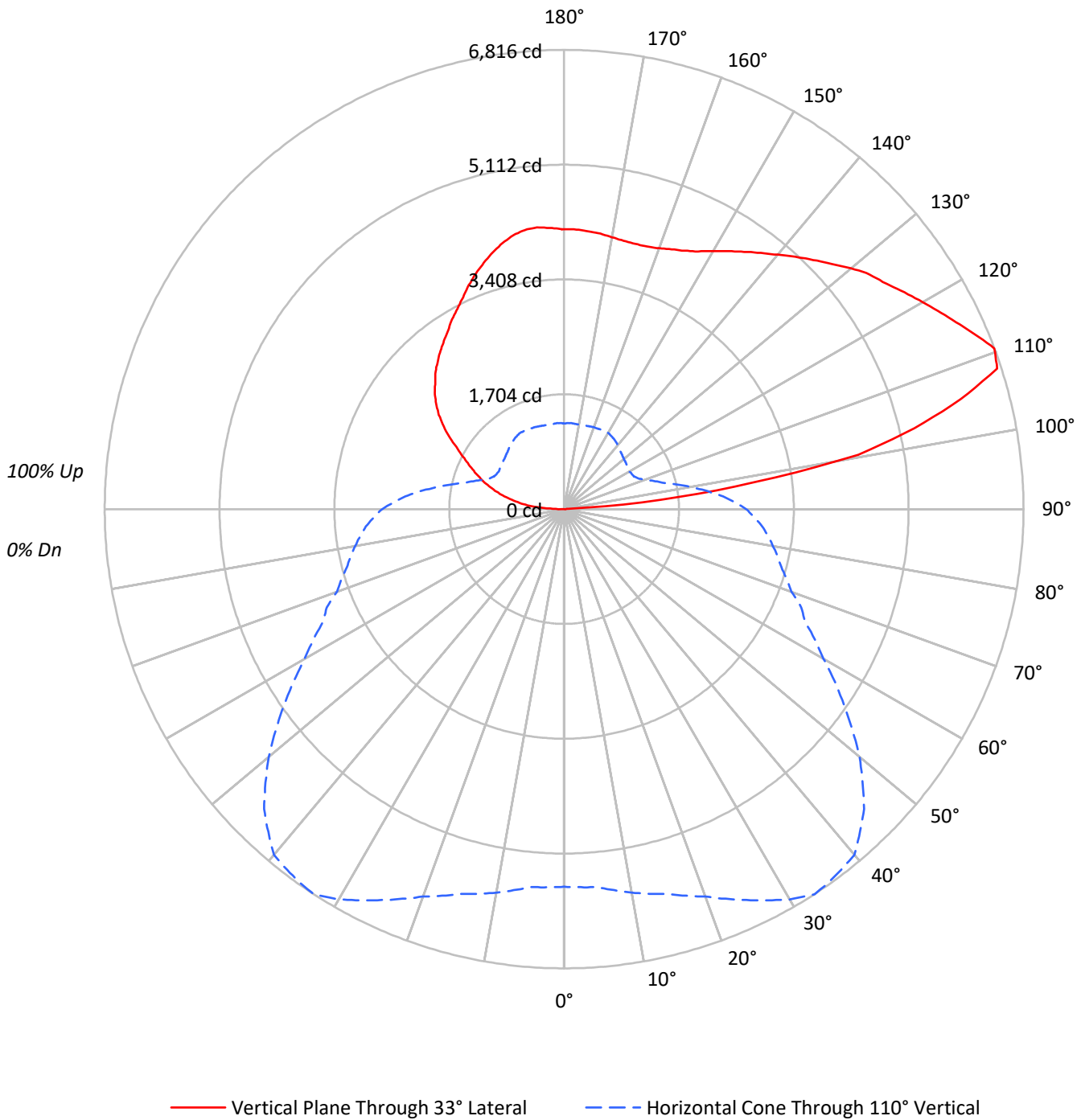
Lumens per Lamp: N/A
Luminaire Lumens: 19722.6 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
N/A
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
CIE Type: Indirect

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: P508459
CATALOG NUMBER: ASYX-X-S4-X-U-F-L27-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot





TEST NUMBER: P508459

CATALOG NUMBER: ASYX-X-S4-X-U-F-L27-1-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°	71891	27590	60183
100°	182502	58739	49509
105°	177334	65024	42221
110°	176373	84992	40044
115°	153768	96364	36717
120°	127785	94710	35407
125°	108852	88277	36073
130°	93052	80925	38083
135°	80055	74388	38533
140°	69805	68664	38422
145°	61367	63323	38688
150°	53839	59139	38697
155°	49437	55465	39227
160°	45742	51712	40547
165°	44198	48949	42539
170°	44016	46754	44312
175°	45049	45269	44683



TEST NUMBER: P508459

CATALOG NUMBER: ASYX-X-S4-X-U-F-L27-1-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°	715.9	3.6
100°-110°	2640.5	13.4
110°-120°	3582.7	18.2
120°-130°	3566.8	18.1
130°-140°	3175.3	16.1
140°-150°	2580.3	13.1
150°-160°	1894.6	9.6
160°-170°	1169.2	5.9
170°-180°	397.2	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°	6939.1	35.2
90°-150°	16261.5	82.5
90°-180°	19723.0	100.0
0°-180°	19722.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	582	860	223	338	487	964
105°	4264	5726	1564	920	1015	4538
115°	6037	6213	3784	1469	1442	5903
125°	5800	5800	4704	2085	1922	5184
135°	5259	5279	4887	2633	2531	4097
145°	4670	4684	4819	3120	2944	2937
155°	4162	4305	4670	3662	3303	1921
165°	3966	4108	4393	4068	3817	1133
175°	4169	4129	4190	4190	4135	392
180°	4156	4156	4156	4156	4156	



TEST NUMBER: P508459

CATALOG NUMBER: ASYX-X-S4-X-U-F-L27-1-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°	33.8	33.8	33.8	40.6	47.4	47.4	60.9	67.7	60.9	88.0	101.5
95°	582.1	670.1	961.1	1143.8	1130.3	1069.4	1137.1	1333.4	1434.9	1306.3	1110.0
97.5°	1462.0	1516.1	2118.5	2402.7	2653.2	2775.0	2883.3	2795.3	2842.7	2815.6	2565.2
100°	2944.2	3120.2	3330.0	3621.0	3979.8	4237.0	4433.2	4588.9	4440.0	4203.1	3512.8
102.5°	3769.9	3830.9	3973.0	4121.9	4507.7	4697.2	4893.5	5231.9	5333.4	5286.0	4913.8
105°	4264.0	4297.9	4433.2	4656.6	4954.4	5164.2	5407.9	5847.8	6105.0	6132.1	6159.2
107.5°	4886.7	4961.2	5123.6	5265.7	5617.7	5861.4	6077.9	6531.4	6754.8	6768.3	6673.5
110°	5604.2	5631.2	5780.1	5915.5	6118.5	6260.7	6402.8	6687.1	6815.7	6795.4	6700.6
112.5°	5990.0	6023.8	6077.9	6125.3	6220.1	6281.0	6369.0	6551.7	6626.2	6646.5	6551.7
115°	6037.3	6037.3	6077.9	6084.7	6193.0	6193.0	6233.6	6409.6	6443.4	6470.5	6416.4
117.5°	5996.7	6010.3	6037.3	6023.8	6071.2	6138.9	6125.3	6233.6	6274.2	6253.9	6274.2
120°	5935.8	5922.3	5976.4	5949.3	5983.2	6023.8	5996.7	6077.9	6111.8	6098.2	6165.9
122.5°	5874.9	5874.9	5895.2	5888.4	5874.9	5861.4	5868.1	5922.3	5956.1	5949.3	5990.0
125°	5800.4	5793.7	5786.9	5759.8	5793.7	5773.4	5739.5	5780.1	5807.2	5793.7	5834.3
127.5°	5678.6	5685.4	5671.8	5658.3	5617.7	5610.9	5644.8	5624.5	5692.1	5651.5	5692.1
130°	5556.8	5556.8	5543.2	5516.2	5502.6	5475.6	5468.8	5482.3	5522.9	5536.5	5475.6
132.5°	5462.0	5414.6	5380.8	5360.5	5360.5	5333.4	5319.9	5333.4	5353.7	5387.6	5394.3
135°	5259.0	5231.9	5231.9	5204.8	5245.4	5184.5	5171.0	5191.3	5198.1	5198.1	5238.7
137.5°	5143.9	5076.2	5049.2	5042.4	5035.6	5015.3	5015.3	5042.4	5049.2	5042.4	5076.2
140°	4967.9	4893.5	4920.6	4886.7	4893.5	4859.6	4873.2	4873.2	4900.3	4900.3	4934.1
142.5°	4866.4	4758.1	4744.6	4724.3	4731.0	4717.5	4785.2	4737.8	4764.9	4812.3	4792.0
145°	4670.1	4582.1	4602.4	4582.1	4588.9	4575.4	4609.2	4602.4	4636.3	4629.5	4663.4
147.5°	4460.3	4453.5	4460.3	4446.8	4460.3	4446.8	4487.4	4480.6	4514.5	4534.8	4541.5
150°	4331.7	4304.6	4311.4	4324.9	4311.4	4338.5	4338.5	4365.6	4399.4	4406.2	4433.2
152.5°	4196.3	4189.6	4223.4	4203.1	4216.7	4216.7	4237.0	4243.7	4291.1	4297.9	4365.6
155°	4162.5	4101.6	4101.6	4094.8	4128.7	4128.7	4155.7	4196.3	4216.7	4250.5	4257.3
157.5°	4040.7	4033.9	4033.9	4061.0	4027.1	4067.8	4128.7	4108.4	4162.5	4169.3	4196.3
160°	3993.3	3973.0	3986.5	4000.1	4000.1	4033.9	4081.3	4074.5	4108.4	4149.0	4155.7
162.5°	4020.4	3952.7	3959.5	3993.3	3979.8	4027.1	4033.9	4047.4	4081.3	4094.8	4135.4
165°	3966.2	3945.9	3932.4	3945.9	3986.5	4006.8	4027.1	4040.7	4074.5	4081.3	4101.6
167.5°	3986.5	3979.8	3979.8	3993.3	4020.4	4020.4	4054.2	4047.4	4081.3	4081.3	4094.8
170°	4027.1	4006.8	4020.4	4047.4	4000.1	4074.5	4067.8	4047.4	4101.6	4101.6	4121.9
172.5°	4081.3	4061.0	4067.8	4067.8	4067.8	4108.4	4115.1	4121.9	4128.7	4121.9	4121.9
175°	4169.3	4115.1	4108.4	4108.4	4121.9	4121.9	4135.4	4101.6	4142.2	4142.2	4135.4
177.5°	4149.0	4128.7	4162.5	4128.7	4115.1	4142.2	4162.5	4135.4	4155.7	4135.4	4155.7
180°	4155.7	4155.7	4155.7	4155.7	4155.7	4155.7	4155.7	4155.7	4155.7	4155.7	4155.7



TEST NUMBER: P508459

CATALOG NUMBER: ASYX-X-S4-X-U-F-L27-1-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°	88.0	88.0	88.0	81.2	74.5	74.5	74.5	74.5	67.7	60.9	60.9
95°	859.6	683.6	622.7	514.4	433.2	399.3	345.2	345.2	257.2	209.8	223.4
97.5°	2159.1	1678.5	1333.4	1008.5	961.1	900.2	893.4	758.1	670.1	609.1	527.9
100°	2802.1	2301.2	1996.7	1827.4	1604.1	1502.6	1428.1	1286.0	1198.0	1076.2	947.6
102.5°	4162.5	3458.6	2863.0	2362.1	2023.7	1881.6	1786.8	1637.9	1529.6	1407.8	1245.4
105°	5726.0	4737.8	3742.9	2991.6	2538.1	2355.4	2192.9	2044.0	1901.9	1712.4	1563.5
107.5°	6145.6	5428.2	4676.9	3837.6	3208.2	3025.4	2835.9	2585.5	2396.0	2233.5	1976.3
110°	6294.5	5719.2	5069.5	4446.8	3939.2	3810.6	3587.2	3336.8	3147.3	2951.0	2700.6
112.5°	6233.6	5874.9	5353.7	4798.7	4385.9	4257.3	4094.8	3939.2	3837.6	3688.7	3357.1
115°	6213.3	5922.3	5556.8	5062.7	4690.4	4548.3	4419.7	4277.6	4250.5	4149.0	3783.5
117.5°	6125.3	5929.0	5651.5	5252.2	4920.6	4825.8	4697.2	4582.1	4568.6	4467.1	4149.0
120°	6064.4	5902.0	5665.1	5401.1	5116.8	5015.3	4907.0	4819.0	4778.4	4704.0	4399.4
122.5°	5922.3	5861.4	5678.6	5455.3	5198.1	5150.7	5049.2	4900.3	4967.9	4886.7	4595.7
125°	5800.4	5766.6	5719.2	5448.5	5265.7	5204.8	5130.4	5042.4	5062.7	5008.5	4704.0
127.5°	5671.8	5665.1	5631.2	5468.8	5299.6	5272.5	5184.5	5116.8	5103.3	5049.2	4778.4
130°	5570.3	5563.5	5516.2	5407.9	5299.6	5292.8	5204.8	5150.7	5143.9	5096.5	4832.6
132.5°	5421.4	5421.4	5448.5	5340.2	5272.5	5252.2	5211.6	5143.9	5164.2	5062.7	4859.6
135°	5279.3	5286.0	5306.4	5252.2	5292.8	5218.4	5177.8	5089.8	5130.4	5089.8	4886.7
137.5°	5116.8	5137.1	5177.8	5157.4	5177.8	5184.5	5130.4	5110.1	5110.1	5069.5	4879.9
140°	4920.6	5001.8	5076.2	5069.5	5110.1	5103.3	5083.0	4988.2	5076.2	5049.2	4886.7
142.5°	4832.6	4879.9	4967.9	4947.6	5035.6	5035.6	5022.1	5015.3	5035.6	4988.2	4859.6
145°	4683.7	4758.1	4825.8	4866.4	4920.6	4974.7	4954.4	4967.9	4974.7	4974.7	4819.0
147.5°	4588.9	4670.1	4758.1	4771.7	4866.4	4879.9	4886.7	4907.0	4947.6	4893.5	4832.6
150°	4487.4	4541.5	4643.1	4683.7	4785.2	4805.5	4798.7	4825.8	4893.5	4852.9	4758.1
152.5°	4331.7	4446.8	4534.8	4595.7	4670.1	4717.5	4724.3	4724.3	4785.2	4785.2	4731.0
155°	4304.6	4365.6	4446.8	4507.7	4588.9	4636.3	4643.1	4643.1	4704.0	4683.7	4670.1
157.5°	4243.7	4324.9	4392.6	4412.9	4514.5	4555.1	4555.1	4568.6	4622.8	4636.3	4588.9
160°	4203.1	4243.7	4324.9	4385.9	4440.0	4487.4	4494.2	4507.7	4541.5	4534.8	4514.5
162.5°	4142.2	4203.1	4277.6	4311.4	4372.3	4419.7	4412.9	4412.9	4473.8	4487.4	4460.3
165°	4108.4	4176.0	4264.0	4284.3	4324.9	4352.0	4345.3	4365.6	4419.7	4406.2	4392.6
167.5°	4121.9	4155.7	4230.2	4223.4	4270.8	4291.1	4291.1	4277.6	4311.4	4264.0	4304.6
170°	4142.2	4142.2	4182.8	4196.3	4237.0	4257.3	4237.0	4237.0	4257.3	4270.8	4277.6
172.5°	4149.0	4142.2	4176.0	4169.3	4182.8	4216.7	4196.3	4169.3	4209.9	4237.0	4203.1
175°	4128.7	4135.4	4189.6	4176.0	4155.7	4189.6	4155.7	4149.0	4209.9	4203.1	4189.6
177.5°	4108.4	4108.4	4142.2	4115.1	4162.5	4162.5	4128.7	4128.7	4196.3	4149.0	4135.4
180°	4155.7	4155.7	4155.7	4155.7	4155.7	4155.7	4155.7	4155.7	4155.7	4155.7	4155.7



TEST NUMBER: P508459

CATALOG NUMBER: ASYX-X-S4-X-U-F-L27-1-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°	67.7	74.5	81.2	94.8	101.5	108.3	121.8	135.4	155.7	155.7	182.7
95°	216.6	223.4	223.4	236.9	243.7	243.7	250.4	277.5	304.6	338.4	399.3
97.5°	460.2	406.1	392.6	392.6	399.3	399.3	406.1	419.6	439.9	480.5	541.5
100°	812.2	690.4	602.4	555.0	541.5	534.7	541.5	541.5	575.3	629.5	697.1
102.5°	1062.6	900.2	751.3	683.6	656.5	663.3	656.5	670.1	717.4	764.8	839.3
105°	1340.1	1130.3	940.8	839.3	798.7	791.9	791.9	805.4	859.6	920.5	974.6
107.5°	1719.1	1455.2	1177.7	1028.8	967.9	954.3	954.3	974.6	1008.5	1049.1	1110.0
110°	2328.3	1895.1	1509.3	1272.4	1191.2	1143.8	1116.8	1137.1	1157.4	1191.2	1238.6
112.5°	2896.8	2362.1	1854.5	1495.8	1387.5	1313.1	1272.4	1272.4	1299.5	1326.6	1360.4
115°	3289.4	2693.8	2145.6	1725.9	1570.2	1502.6	1414.6	1421.3	1441.6	1468.7	1489.0
117.5°	3641.3	3005.1	2389.2	1942.5	1766.5	1658.2	1570.2	1549.9	1590.6	1624.4	1637.9
120°	3891.8	3275.9	2632.9	2165.9	1962.8	1841.0	1719.1	1698.8	1739.5	1746.2	1813.9
122.5°	4101.6	3472.1	2842.7	2362.1	2145.6	2044.0	1895.1	1868.1	1895.1	1942.5	1996.7
125°	4237.0	3648.1	3032.2	2544.9	2341.8	2206.5	2050.8	2030.5	2050.8	2084.6	2145.6
127.5°	4345.3	3790.3	3214.9	2734.4	2497.5	2389.2	2233.5	2192.9	2220.0	2233.5	2301.2
130°	4426.5	3952.7	3384.2	2917.1	2707.3	2599.0	2389.2	2348.6	2362.1	2396.0	2429.8
132.5°	4507.7	4054.2	3553.4	3106.7	2903.6	2781.8	2578.7	2490.7	2497.5	2524.6	2558.4
135°	4561.8	4162.5	3729.3	3296.2	3072.8	2978.1	2761.5	2673.5	2639.6	2632.9	2673.5
137.5°	4616.0	4264.0	3864.7	3472.1	3282.6	3174.3	2917.1	2815.6	2781.8	2775.0	2788.5
140°	4663.4	4352.0	3986.5	3661.7	3472.1	3343.5	3106.7	2978.1	2923.9	2896.8	2910.4
142.5°	4683.7	4426.5	4115.1	3864.7	3634.6	3485.7	3289.4	3160.8	3045.7	3011.9	2984.8
145°	4697.2	4541.5	4237.0	3993.3	3817.3	3729.3	3492.4	3323.2	3187.9	3120.2	3106.7
147.5°	4697.2	4534.8	4318.2	4101.6	3952.7	3857.9	3600.7	3492.4	3384.2	3269.1	3214.9
150°	4683.7	4609.2	4379.1	4209.9	4054.2	3979.8	3797.0	3594.0	3478.9	3397.7	3336.8
152.5°	4649.8	4548.3	4412.9	4264.0	4149.0	4101.6	3891.8	3763.2	3641.3	3519.5	3472.1
155°	4616.0	4534.8	4433.2	4311.4	4216.7	4155.7	4006.8	3878.2	3790.3	3661.7	3614.3
157.5°	4575.4	4521.2	4433.2	4365.6	4257.3	4216.7	4067.8	3979.8	3905.3	3776.7	3715.8
160°	4514.5	4480.6	4426.5	4331.7	4284.3	4250.5	4128.7	4061.0	3986.5	3891.8	3844.4
162.5°	4453.5	4460.3	4392.6	4372.3	4297.9	4270.8	4189.6	4115.1	4040.7	3986.5	3945.9
165°	4406.2	4433.2	4365.6	4297.9	4297.9	4284.3	4196.3	4162.5	4128.7	4067.8	4020.4
167.5°	4318.2	4352.0	4352.0	4270.8	4264.0	4284.3	4230.2	4196.3	4169.3	4121.9	4094.8
170°	4304.6	4304.6	4257.3	4264.0	4284.3	4237.0	4203.1	4196.3	4196.3	4169.3	4149.0
172.5°	4223.4	4264.0	4243.7	4230.2	4209.9	4209.9	4189.6	4196.3	4182.8	4189.6	4182.8
175°	4196.3	4203.1	4209.9	4203.1	4182.8	4182.8	4176.0	4182.8	4189.6	4189.6	4176.0
177.5°	4155.7	4176.0	4209.9	4176.0	4189.6	4162.5	4155.7	4169.3	4169.3	4176.0	4162.5
180°	4155.7	4155.7	4155.7	4155.7	4155.7	4155.7	4155.7	4155.7	4155.7	4155.7	4155.7



TEST NUMBER: P508459

CATALOG NUMBER: ASYX-X-S4-X-U-F-L27-1-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°	203.0	216.6	223.4	230.1	236.9	216.6	216.6	196.3	182.7
95°	433.2	467.0	467.0	467.0	487.3	500.9	494.1	487.3	487.3
97.5°	588.8	643.0	683.6	690.4	690.4	690.4	697.1	697.1	683.6
100°	744.5	771.6	798.7	805.4	798.7	798.7	791.9	805.4	798.7
102.5°	893.4	920.5	927.3	934.0	927.3	920.5	907.0	920.5	893.4
105°	1022.0	1049.1	1042.3	1035.6	1028.8	1015.2	1001.7	1022.0	1015.2
107.5°	1164.1	1170.9	1177.7	1184.5	1157.4	1150.6	1150.6	1164.1	1157.4
110°	1279.2	1306.3	1299.5	1292.7	1292.7	1279.2	1272.4	1279.2	1272.4
112.5°	1401.0	1414.6	1407.8	1407.8	1401.0	1380.7	1360.4	1367.2	1360.4
115°	1529.6	1536.4	1529.6	1516.1	1502.6	1489.0	1462.0	1448.4	1441.6
117.5°	1665.0	1658.2	1644.7	1637.9	1624.4	1617.6	1577.0	1556.7	1549.9
120°	1820.7	1800.4	1773.3	1766.5	1746.2	1739.5	1685.3	1651.5	1644.7
122.5°	2010.2	1976.3	1922.2	1895.1	1888.4	1868.1	1800.4	1786.8	1766.5
125°	2172.6	2159.1	2125.2	2104.9	2077.9	2017.0	1942.5	1908.7	1922.2
127.5°	2328.3	2321.5	2308.0	2280.9	2247.1	2220.0	2159.1	2104.9	2091.4
130°	2456.9	2463.7	2443.4	2423.1	2402.7	2375.7	2308.0	2274.2	2274.2
132.5°	2578.7	2585.5	2599.0	2544.9	2531.3	2504.3	2443.4	2402.7	2416.3
135°	2673.5	2687.0	2666.7	2646.4	2632.9	2605.8	2544.9	2524.6	2531.3
137.5°	2802.1	2788.5	2768.2	2754.7	2720.9	2714.1	2666.7	2632.9	2619.3
140°	2883.3	2890.1	2890.1	2856.2	2822.4	2808.8	2761.5	2727.6	2734.4
142.5°	2991.6	2964.5	2978.1	2944.2	2923.9	2903.6	2842.7	2835.9	2835.9
145°	3072.8	3059.3	3052.5	3025.4	3018.7	2978.1	2957.7	2923.9	2944.2
147.5°	3160.8	3160.8	3160.8	3099.9	3086.3	3066.0	3045.7	3018.7	3039.0
150°	3289.4	3242.0	3228.5	3194.6	3167.6	3154.0	3106.7	3093.1	3113.4
152.5°	3390.9	3336.8	3296.2	3275.9	3269.1	3248.8	3221.7	3201.4	3201.4
155°	3512.8	3438.3	3438.3	3363.8	3343.5	3330.0	3302.9	3296.2	3302.9
157.5°	3641.3	3573.7	3539.8	3499.2	3465.4	3451.8	3418.0	3404.5	3418.0
160°	3736.1	3729.3	3654.9	3634.6	3600.7	3580.4	3573.7	3539.8	3539.8
162.5°	3885.0	3790.3	3776.7	3756.4	3729.3	3702.3	3688.7	3675.2	3688.7
165°	3966.2	3939.2	3905.3	3878.2	3857.9	3851.2	3810.6	3824.1	3817.3
167.5°	4061.0	4040.7	4006.8	3986.5	3993.3	3966.2	3966.2	3932.4	3939.2
170°	4128.7	4142.2	4101.6	4081.3	4067.8	4067.8	4040.7	4040.7	4054.2
172.5°	4176.0	4196.3	4162.5	4149.0	4135.4	4149.0	4121.9	4115.1	4128.7
175°	4189.6	4216.7	4189.6	4182.8	4169.3	4209.9	4162.5	4162.5	4135.4
177.5°	4176.0	4182.8	4209.9	4169.3	4169.3	4182.8	4189.6	4135.4	4169.3
180°	4155.7	4155.7	4155.7	4155.7	4155.7	4155.7	4155.7	4155.7	4155.7

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