

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: P508395

Luminaire Tested: **ASYX-X-L6-X-U-F-L27-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508395
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-L6-X-U-F-L27-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(6) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

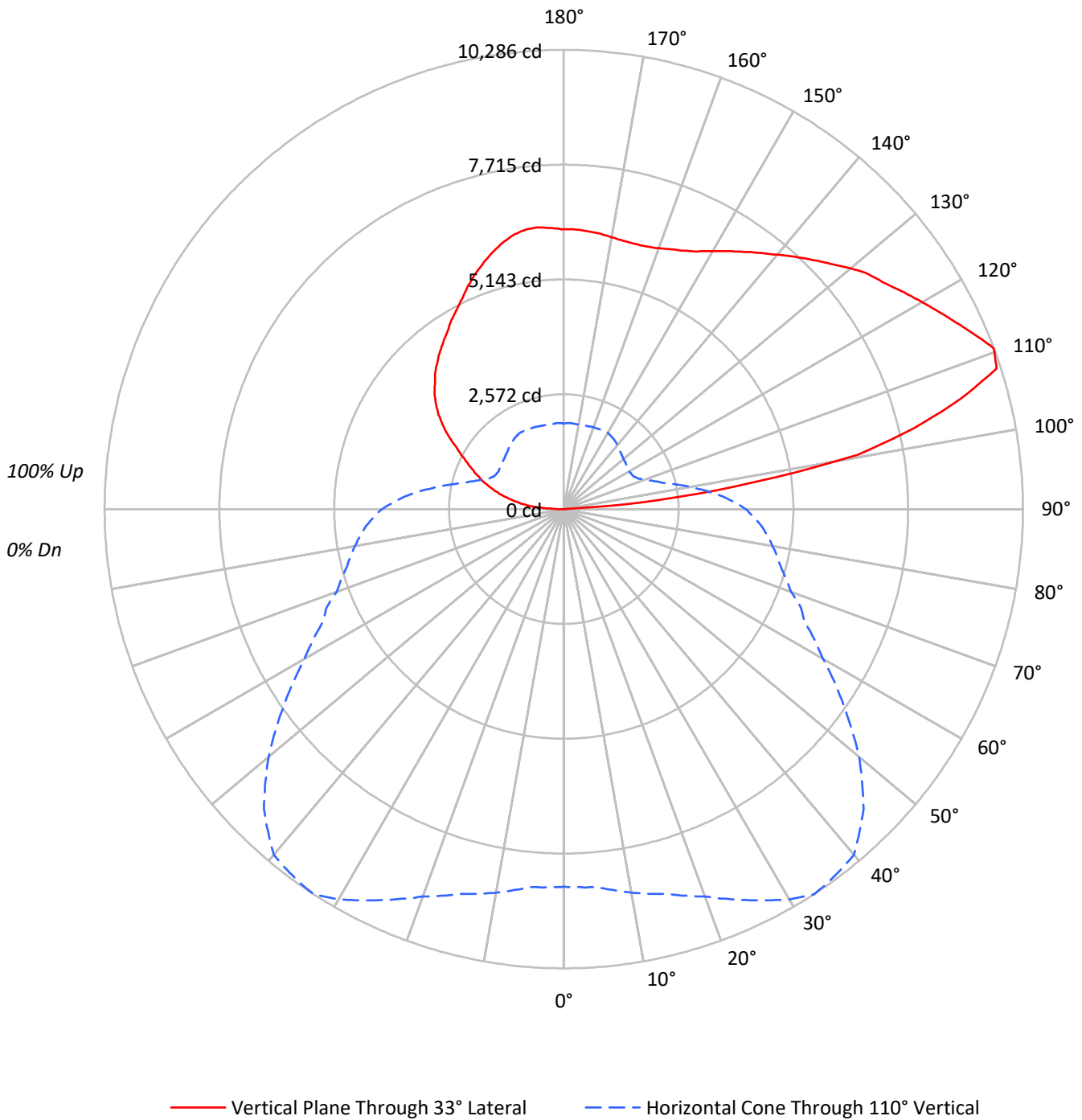
Lumens per Lamp: N/A
Luminaire Lumens: 29765.4 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
N/A
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
CIE Type: Indirect

Input Watts (W): 320.8
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: P508395
CATALOG NUMBER: ASYX-X-L6-X-U-F-L27-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot





TEST NUMBER: P508395

CATALOG NUMBER: ASYX-X-L6-X-U-F-L27-1-UNV-X-X-X-STD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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				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°	72331	27755	60557
100°	183622	59098	49809
105°	178423	65422	42481
110°	177454	85512	40292
115°	154712	96954	36943
120°	128569	95291	35624
125°	109520	88817	36294
130°	93623	81421	38316
135°	80546	74844	38770
140°	70234	69086	38658
145°	61744	63712	38925
150°	54169	59502	38935
155°	49740	55806	39469
160°	46023	52029	40796
165°	44469	49250	42800
170°	44287	47040	44584
175°	45326	45546	44958



TEST NUMBER: P508395

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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°	1080.5	3.6
100°-110°	3985.0	13.4
110°-120°	5407.1	18.2
120°-130°	5383.1	18.1
130°-140°	4792.2	16.1
140°-150°	3894.2	13.1
150°-160°	2859.4	9.6
160°-170°	1764.5	5.9
170°-180°	599.5	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°	10472.5	35.2
90°-150°	24542.0	82.5
90°-180°	29765.0	100.0
0°-180°	29765.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	878	1297	337	511	736	1455
105°	6435	8642	2360	1389	1532	6849
115°	9112	9377	5710	2217	2176	8909
125°	8754	8754	7099	3146	2901	7824
135°	7937	7968	7375	3974	3820	6183
145°	7048	7069	7273	4709	4443	4433
155°	6282	6497	7048	5526	4985	2899
165°	5986	6200	6629	6139	5761	1710
175°	6292	6231	6323	6323	6241	591
180°	6272	6272	6272	6272	6272	



TEST NUMBER: P508395

CATALOG NUMBER: ASYX-X-L6-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°	51.1	51.1	51.1	61.3	71.5	71.5	91.9	102.1	91.9	132.8	153.2
95°	878.5	1011.3	1450.5	1726.3	1705.9	1613.9	1716.1	2012.3	2165.5	1971.4	1675.2
97.5°	2206.4	2288.1	3197.2	3626.2	4004.2	4188.0	4351.5	4218.7	4290.2	4249.3	3871.4
100°	4443.4	4709.0	5025.7	5464.9	6006.3	6394.4	6690.7	6925.6	6700.9	6343.4	5301.5
102.5°	5689.6	5781.5	5996.1	6220.8	6803.0	7089.0	7385.3	7896.0	8049.2	7977.7	7415.9
105°	6435.3	6486.4	6690.7	7027.7	7477.2	7793.9	8161.6	8825.5	9213.7	9254.6	9295.4
107.5°	7375.0	7487.4	7732.6	7947.1	8478.2	8846.0	9172.8	9857.2	10194.3	10214.7	10071.7
110°	8457.8	8498.7	8723.4	8927.7	9234.1	9448.6	9663.2	10092.2	10286.3	10255.6	10112.6
112.5°	9040.1	9091.1	9172.8	9244.3	9387.4	9479.3	9612.1	9887.9	10000.2	10030.9	9887.9
115°	9111.6	9111.6	9172.8	9183.1	9346.5	9346.5	9407.8	9673.4	9724.4	9765.3	9683.6
117.5°	9050.3	9070.7	9111.6	9091.1	9162.6	9264.8	9244.3	9407.8	9469.1	9438.4	9469.1
120°	8958.3	8937.9	9019.6	8978.8	9029.8	9091.1	9050.3	9172.8	9223.9	9203.5	9305.6
122.5°	8866.4	8866.4	8897.0	8886.8	8866.4	8846.0	8856.2	8937.9	8989.0	8978.8	9040.1
125°	8754.0	8743.8	8733.6	8692.8	8743.8	8713.2	8662.1	8723.4	8764.3	8743.8	8805.1
127.5°	8570.2	8580.4	8560.0	8539.5	8478.2	8468.0	8519.1	8488.5	8590.6	8529.3	8590.6
130°	8386.3	8386.3	8365.9	8325.0	8304.6	8263.7	8253.5	8273.9	8335.2	8355.7	8263.7
132.5°	8243.3	8171.8	8120.7	8090.1	8090.1	8049.2	8028.8	8049.2	8079.9	8130.9	8141.2
135°	7936.9	7896.0	7896.0	7855.1	7916.4	7824.5	7804.1	7834.7	7844.9	7844.9	7906.2
137.5°	7763.2	7661.1	7620.2	7610.0	7599.8	7569.1	7569.1	7610.0	7620.2	7610.0	7661.1
140°	7497.6	7385.3	7426.1	7375.0	7385.3	7334.2	7354.6	7354.6	7395.5	7395.5	7446.6
142.5°	7344.4	7181.0	7160.5	7129.9	7140.1	7119.7	7221.8	7150.3	7191.2	7262.7	7232.0
145°	7048.2	6915.4	6946.0	6915.4	6925.6	6905.2	6956.2	6946.0	6997.1	6986.9	7038.0
147.5°	6731.5	6721.3	6731.5	6711.1	6731.5	6711.1	6772.4	6762.2	6813.2	6843.9	6854.1
150°	6537.4	6496.6	6506.8	6527.2	6506.8	6547.7	6547.7	6588.5	6639.6	6649.8	6690.7
152.5°	6333.1	6322.9	6374.0	6343.4	6363.8	6363.8	6394.4	6404.6	6476.2	6486.4	6588.5
155°	6282.1	6190.1	6190.1	6179.9	6231.0	6231.0	6271.9	6333.1	6363.8	6414.9	6425.1
157.5°	6098.2	6088.0	6088.0	6128.8	6077.8	6139.1	6231.0	6200.4	6282.1	6292.3	6333.1
160°	6026.7	5996.1	6016.5	6036.9	6036.9	6088.0	6159.5	6149.3	6200.4	6261.6	6271.9
162.5°	6067.6	5965.4	5975.6	6026.7	6006.3	6077.8	6088.0	6108.4	6159.5	6179.9	6241.2
165°	5985.8	5955.2	5934.8	5955.2	6016.5	6047.1	6077.8	6098.2	6149.3	6159.5	6190.1
167.5°	6016.5	6006.3	6006.3	6026.7	6067.6	6067.6	6118.6	6108.4	6159.5	6159.5	6179.9
170°	6077.8	6047.1	6067.6	6108.4	6036.9	6149.3	6139.1	6108.4	6190.1	6190.1	6220.8
172.5°	6159.5	6128.8	6139.1	6139.1	6139.1	6200.4	6210.6	6220.8	6231.0	6220.8	6220.8
175°	6292.3	6210.6	6200.4	6200.4	6220.8	6220.8	6241.2	6190.1	6251.4	6251.4	6241.2
177.5°	6261.6	6231.0	6282.1	6231.0	6210.6	6251.4	6282.1	6241.2	6271.9	6241.2	6271.9
180°	6271.9	6271.9	6271.9	6271.9	6271.9	6271.9	6271.9	6271.9	6271.9	6271.9	6271.9



TEST NUMBER: P508395

CATALOG NUMBER: ASYX-X-L6-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°	132.8	132.8	132.8	122.6	112.4	112.4	112.4	112.4	102.1	91.9	91.9
95°	1297.3	1031.7	939.8	776.3	653.7	602.7	521.0	521.0	388.2	316.7	337.1
97.5°	3258.5	2533.3	2012.3	1522.0	1450.5	1358.6	1348.3	1144.1	1011.3	919.3	796.8
100°	4228.9	3473.0	3013.4	2758.0	2420.9	2267.7	2155.3	1940.8	1808.0	1624.1	1430.1
102.5°	6282.1	5219.7	4320.8	3564.9	3054.2	2839.7	2696.7	2472.0	2308.5	2124.7	1879.5
105°	8641.7	7150.3	5648.8	4514.9	3830.5	3554.7	3309.6	3084.9	2870.3	2584.3	2359.6
107.5°	9275.0	8192.2	7058.4	5791.8	4841.8	4566.0	4280.0	3902.0	3616.0	3370.9	2982.7
110°	9499.7	8631.5	7650.8	6711.1	5945.0	5750.9	5413.8	5035.9	4749.9	4453.6	4075.7
112.5°	9407.8	8866.4	8079.9	7242.3	6619.2	6425.1	6179.9	5945.0	5791.8	5567.0	5066.5
115°	9377.1	8937.9	8386.3	7640.6	7078.8	6864.3	6670.2	6455.7	6414.9	6261.6	5710.0
117.5°	9244.3	8948.1	8529.3	7926.6	7426.1	7283.1	7089.0	6915.4	6895.0	6741.7	6261.6
120°	9152.4	8907.3	8549.7	8151.4	7722.3	7569.1	7405.7	7272.9	7211.6	7099.2	6639.6
122.5°	8937.9	8846.0	8570.2	8233.1	7844.9	7773.4	7620.2	7395.5	7497.6	7375.0	6935.8
125°	8754.0	8703.0	8631.5	8222.9	7947.1	7855.1	7742.8	7610.0	7640.6	7558.9	7099.2
127.5°	8560.0	8549.7	8498.7	8253.5	7998.1	7957.3	7824.5	7722.3	7701.9	7620.2	7211.6
130°	8406.7	8396.5	8325.0	8161.6	7998.1	7987.9	7855.1	7773.4	7763.2	7691.7	7293.3
132.5°	8182.0	8182.0	8222.9	8059.4	7957.3	7926.6	7865.4	7763.2	7793.9	7640.6	7334.2
135°	7967.5	7977.7	8008.4	7926.6	7987.9	7875.6	7814.3	7681.5	7742.8	7681.5	7375.0
137.5°	7722.3	7753.0	7814.3	7783.6	7814.3	7824.5	7742.8	7712.1	7712.1	7650.8	7364.8
140°	7426.1	7548.7	7661.1	7650.8	7712.1	7701.9	7671.3	7528.3	7661.1	7620.2	7375.0
142.5°	7293.3	7364.8	7497.6	7467.0	7599.8	7599.8	7579.3	7569.1	7599.8	7528.3	7334.2
145°	7068.6	7181.0	7283.1	7344.4	7426.1	7507.8	7477.2	7497.6	7507.8	7507.8	7272.9
147.5°	6925.6	7048.2	7181.0	7201.4	7344.4	7364.8	7375.0	7405.7	7467.0	7385.3	7293.3
150°	6772.4	6854.1	7007.3	7068.6	7221.8	7252.5	7242.3	7283.1	7385.3	7324.0	7181.0
152.5°	6537.4	6711.1	6843.9	6935.8	7048.2	7119.7	7129.9	7129.9	7221.8	7221.8	7140.1
155°	6496.6	6588.5	6711.1	6803.0	6925.6	6997.1	7007.3	7007.3	7099.2	7068.6	7048.2
157.5°	6404.6	6527.2	6629.4	6660.0	6813.2	6874.5	6874.5	6895.0	6976.7	6997.1	6925.6
160°	6343.4	6404.6	6527.2	6619.2	6700.9	6772.4	6782.6	6803.0	6854.1	6843.9	6813.2
162.5°	6251.4	6343.4	6455.7	6506.8	6598.7	6670.2	6660.0	6660.0	6751.9	6772.4	6731.5
165°	6200.4	6302.5	6435.3	6465.9	6527.2	6568.1	6557.9	6588.5	6670.2	6649.8	6629.4
167.5°	6220.8	6271.9	6384.2	6374.0	6445.5	6476.2	6476.2	6455.7	6506.8	6435.3	6496.6
170°	6251.4	6251.4	6312.7	6333.1	6394.4	6425.1	6394.4	6394.4	6425.1	6445.5	6455.7
172.5°	6261.6	6251.4	6302.5	6292.3	6312.7	6363.8	6333.1	6292.3	6353.6	6394.4	6343.4
175°	6231.0	6241.2	6322.9	6302.5	6271.9	6322.9	6271.9	6261.6	6353.6	6343.4	6322.9
177.5°	6200.4	6200.4	6251.4	6210.6	6282.1	6282.1	6231.0	6231.0	6333.1	6261.6	6241.2
180°	6271.9	6271.9	6271.9	6271.9	6271.9	6271.9	6271.9	6271.9	6271.9	6271.9	6271.9



TEST NUMBER: P508395

CATALOG NUMBER: ASYX-X-L6-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°	102.1	112.4	122.6	143.0	153.2	163.4	183.9	204.3	234.9	234.9	275.8
95°	326.9	337.1	337.1	357.5	367.7	367.7	377.9	418.8	459.7	510.7	602.7
97.5°	694.6	612.9	592.5	592.5	602.7	602.7	612.9	633.3	664.0	725.2	817.2
100°	1225.8	1041.9	909.1	837.6	817.2	807.0	817.2	817.2	868.3	950.0	1052.1
102.5°	1603.7	1358.6	1133.8	1031.7	990.8	1001.0	990.8	1011.3	1082.8	1154.3	1266.6
105°	2022.5	1705.9	1419.8	1266.6	1205.3	1195.1	1195.1	1215.6	1297.3	1389.2	1470.9
107.5°	2594.5	2196.2	1777.4	1552.6	1460.7	1440.3	1440.3	1470.9	1522.0	1583.3	1675.2
110°	3513.9	2860.1	2277.9	1920.4	1797.8	1726.3	1685.4	1716.1	1746.7	1797.8	1869.3
112.5°	4371.9	3564.9	2798.8	2257.5	2094.0	1981.7	1920.4	1920.4	1961.2	2002.1	2053.2
115°	4964.4	4065.5	3238.1	2604.8	2369.8	2267.7	2134.9	2145.1	2175.7	2216.6	2247.2
117.5°	5495.5	4535.3	3605.8	2931.6	2666.0	2502.6	2369.8	2339.2	2400.5	2451.5	2472.0
120°	5873.5	4943.9	3973.5	3268.7	2962.3	2778.4	2594.5	2563.9	2625.2	2635.4	2737.6
122.5°	6190.1	5240.2	4290.2	3564.9	3238.1	3084.9	2860.1	2819.3	2860.1	2931.6	3013.4
125°	6394.4	5505.7	4576.2	3840.7	3534.3	3330.0	3095.1	3064.4	3095.1	3146.1	3238.1
127.5°	6557.9	5720.3	4852.0	4126.8	3769.2	3605.8	3370.9	3309.6	3350.4	3370.9	3473.0
130°	6680.4	5965.4	5107.4	4402.6	4085.9	3922.5	3605.8	3544.5	3564.9	3616.0	3667.1
132.5°	6803.0	6118.6	5362.7	4688.6	4382.1	4198.3	3891.8	3759.0	3769.2	3810.1	3861.2
135°	6884.7	6282.1	5628.3	4974.6	4637.5	4494.5	4167.6	4034.8	3983.8	3973.5	4034.8
137.5°	6966.5	6435.3	5832.6	5240.2	4954.2	4790.7	4402.6	4249.3	4198.3	4188.0	4208.5
140°	7038.0	6568.1	6016.5	5526.2	5240.2	5046.1	4688.6	4494.5	4412.8	4371.9	4392.3
142.5°	7068.6	6680.4	6210.6	5832.6	5485.3	5260.6	4964.4	4770.3	4596.6	4545.6	4504.7
145°	7089.0	6854.1	6394.4	6026.7	5761.1	5628.3	5270.8	5015.4	4811.1	4709.0	4688.6
147.5°	7089.0	6843.9	6517.0	6190.1	5965.4	5822.4	5434.2	5270.8	5107.4	4933.7	4852.0
150°	7068.6	6956.2	6608.9	6353.6	6118.6	6006.3	5730.5	5424.0	5250.4	5127.8	5035.9
152.5°	7017.5	6864.3	6660.0	6435.3	6261.6	6190.1	5873.5	5679.4	5495.5	5311.7	5240.2
155°	6966.5	6843.9	6690.7	6506.8	6363.8	6271.9	6047.1	5853.1	5720.3	5526.2	5454.7
157.5°	6905.2	6823.5	6690.7	6588.5	6425.1	6363.8	6139.1	6006.3	5893.9	5699.8	5607.9
160°	6813.2	6762.2	6680.4	6537.4	6465.9	6414.9	6231.0	6128.8	6016.5	5873.5	5802.0
162.5°	6721.3	6731.5	6629.4	6598.7	6486.4	6445.5	6322.9	6210.6	6098.2	6016.5	5955.2
165°	6649.8	6690.7	6588.5	6486.4	6486.4	6465.9	6333.1	6282.1	6231.0	6139.1	6067.6
167.5°	6517.0	6568.1	6568.1	6445.5	6435.3	6465.9	6384.2	6333.1	6292.3	6220.8	6179.9
170°	6496.6	6496.6	6425.1	6435.3	6465.9	6394.4	6343.4	6333.1	6333.1	6292.3	6261.6
172.5°	6374.0	6435.3	6404.6	6384.2	6353.6	6353.6	6322.9	6333.1	6312.7	6322.9	6312.7
175°	6333.1	6343.4	6353.6	6343.4	6312.7	6312.7	6302.5	6312.7	6322.9	6322.9	6302.5
177.5°	6271.9	6302.5	6353.6	6302.5	6322.9	6282.1	6271.9	6292.3	6292.3	6302.5	6282.1
180°	6271.9	6271.9	6271.9	6271.9	6271.9	6271.9	6271.9	6271.9	6271.9	6271.9	6271.9



TEST NUMBER: P508395

CATALOG NUMBER: ASYX-X-L6-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°	306.4	326.9	337.1	347.3	357.5	326.9	326.9	296.2	275.8
95°	653.7	704.8	704.8	704.8	735.5	755.9	745.7	735.5	735.5
97.5°	888.7	970.4	1031.7	1041.9	1041.9	1041.9	1052.1	1052.1	1031.7
100°	1123.6	1164.5	1205.3	1215.6	1205.3	1205.3	1195.1	1215.6	1205.3
102.5°	1348.3	1389.2	1399.4	1409.6	1399.4	1389.2	1368.8	1389.2	1348.3
105°	1542.4	1583.3	1573.1	1562.9	1552.6	1532.2	1511.8	1542.4	1532.2
107.5°	1756.9	1767.2	1777.4	1787.6	1746.7	1736.5	1736.5	1756.9	1746.7
110°	1930.6	1971.4	1961.2	1951.0	1951.0	1930.6	1920.4	1930.6	1920.4
112.5°	2114.5	2134.9	2124.7	2124.7	2114.5	2083.8	2053.2	2063.4	2053.2
115°	2308.5	2318.7	2308.5	2288.1	2267.7	2247.2	2206.4	2186.0	2175.7
117.5°	2512.8	2502.6	2482.2	2472.0	2451.5	2441.3	2380.0	2349.4	2339.2
120°	2747.8	2717.1	2676.3	2666.0	2635.4	2625.2	2543.5	2492.4	2482.2
122.5°	3033.8	2982.7	2901.0	2860.1	2849.9	2819.3	2717.1	2696.7	2666.0
125°	3278.9	3258.5	3207.4	3176.8	3135.9	3044.0	2931.6	2880.6	2901.0
127.5°	3513.9	3503.7	3483.2	3442.4	3391.3	3350.4	3258.5	3176.8	3156.4
130°	3708.0	3718.2	3687.5	3656.9	3626.2	3585.4	3483.2	3432.2	3432.2
132.5°	3891.8	3902.0	3922.5	3840.7	3820.3	3779.5	3687.5	3626.2	3646.7
135°	4034.8	4055.3	4024.6	3994.0	3973.5	3932.7	3840.7	3810.1	3820.3
137.5°	4228.9	4208.5	4177.8	4157.4	4106.3	4096.1	4024.6	3973.5	3953.1
140°	4351.5	4361.7	4361.7	4310.6	4259.5	4239.1	4167.6	4116.5	4126.8
142.5°	4514.9	4474.1	4494.5	4443.4	4412.8	4382.1	4290.2	4280.0	4280.0
145°	4637.5	4617.1	4606.9	4566.0	4555.8	4494.5	4463.8	4412.8	4443.4
147.5°	4770.3	4770.3	4770.3	4678.4	4657.9	4627.3	4596.6	4555.8	4586.4
150°	4964.4	4892.9	4872.4	4821.4	4780.5	4760.1	4688.6	4668.1	4698.8
152.5°	5117.6	5035.9	4974.6	4943.9	4933.7	4903.1	4862.2	4831.6	4831.6
155°	5301.5	5189.1	5189.1	5076.7	5046.1	5025.7	4984.8	4974.6	4984.8
157.5°	5495.5	5393.4	5342.3	5281.0	5230.0	5209.5	5158.4	5138.0	5158.4
160°	5638.5	5628.3	5516.0	5485.3	5434.2	5403.6	5393.4	5342.3	5342.3
162.5°	5863.3	5720.3	5699.8	5669.2	5628.3	5587.5	5567.0	5546.6	5567.0
165°	5985.8	5945.0	5893.9	5853.1	5822.4	5812.2	5750.9	5771.3	5761.1
167.5°	6128.8	6098.2	6047.1	6016.5	6026.7	5985.8	5985.8	5934.8	5945.0
170°	6231.0	6251.4	6190.1	6159.5	6139.1	6139.1	6098.2	6098.2	6118.6
172.5°	6302.5	6333.1	6282.1	6261.6	6241.2	6261.6	6220.8	6210.6	6231.0
175°	6322.9	6363.8	6322.9	6312.7	6292.3	6353.6	6282.1	6282.1	6241.2
177.5°	6302.5	6312.7	6353.6	6292.3	6292.3	6312.7	6322.9	6241.2	6292.3
180°	6271.9	6271.9	6271.9	6271.9	6271.9	6271.9	6271.9	6271.9	6271.9

(END OF REPORT)