

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: P508407

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

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-840-2)
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-W-L27-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(6) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

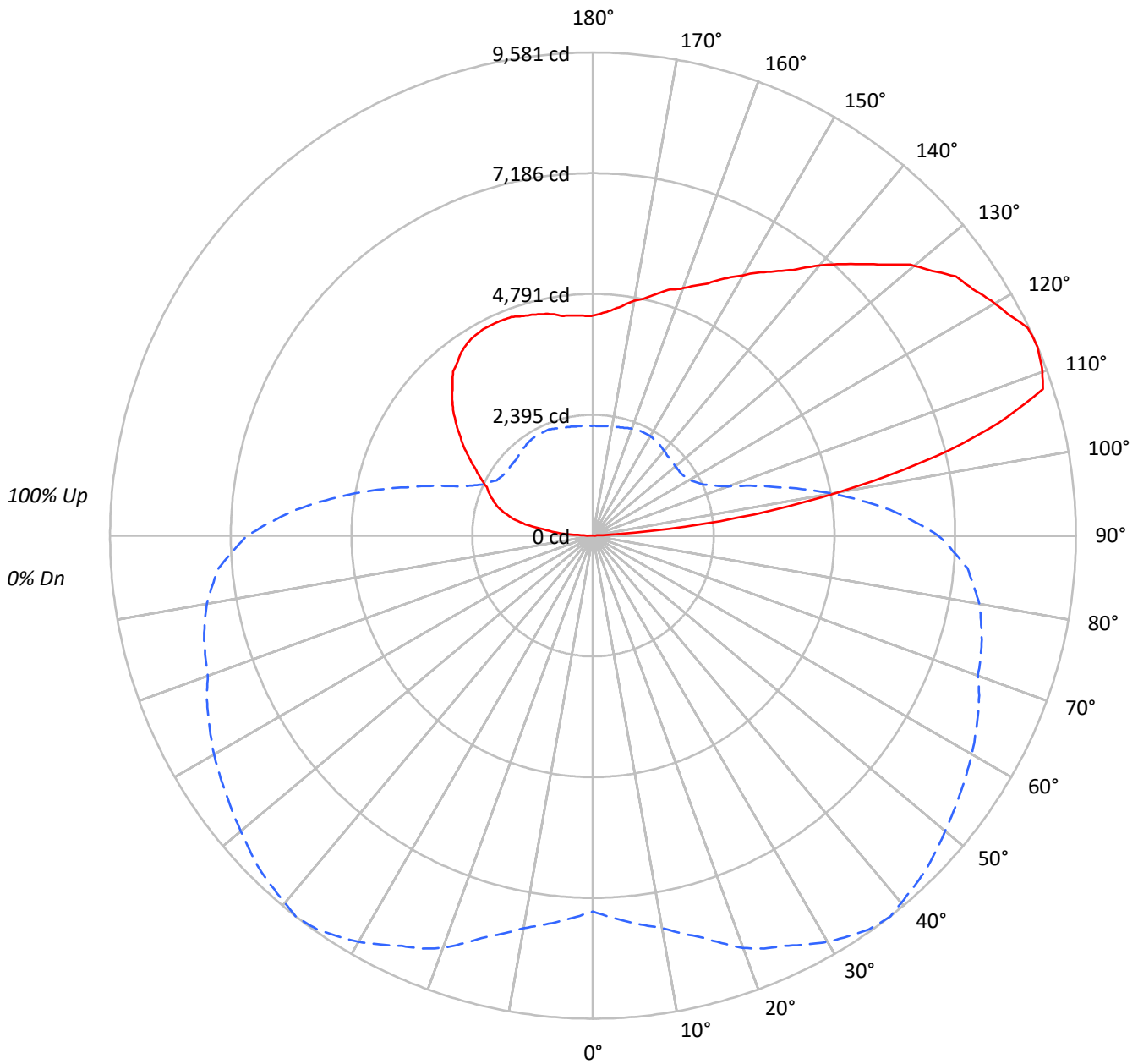
Lumens per Lamp: N/A
Luminaire Lumens: 28805.6 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
N/A
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
CIE Type: Indirect

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: P508407
CATALOG NUMBER: ASYX-X-L6-X-U-W-L27-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot



— Vertical Plane Through 38° Lateral - - - Horizontal Cone Through 112.5° Vertical



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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°	44576	49623	63077
100°	121569	94133	57408
105°	121780	100539	52676
110°	135661	123660	44364
115°	143092	124011	36943
120°	134140	109218	34304
125°	117188	93419	34121
130°	100807	77544	35351
135°	85522	66552	35971
140°	71766	56646	37126
145°	60670	49842	37225
150°	51630	44182	37326
155°	45211	39549	36314
160°	40718	36038	35336
165°	37336	33921	33845
170°	34685	32303	32452
175°	32449	31492	31345



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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°	1179.0	4.1
100°-110°	4267.5	14.8
110°-120°	5752.7	20.0
120°-130°	5475.3	19.0
130°-140°	4561.9	15.8
140°-150°	3455.9	12.0
150°-160°	2351.9	8.2
160°-170°	1336.3	4.6
170°-180°	425.1	1.5
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°	11199.2	38.9
90°-150°	24692.3	85.7
90°-180°	28806.0	100.0
0°-180°	28805.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	541	1767	603	603	766	963
105°	4392	8968	3626	1604	1900	4765
115°	8427	9173	7304	2319	2176	8126
125°	9367	8386	7467	3116	2727	8360
135°	8427	7222	6558	3953	3544	6530
145°	6926	6160	5690	4494	4249	4381
155°	5710	5414	4995	4658	4586	2668
165°	5026	4872	4566	4535	4556	1434
175°	4505	4443	4372	4362	4352	439
180°	4352	4352	4352	4352	4352	



TEST NUMBER: P508407

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	38°	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°	81.7	81.7	81.7	91.9	102.1	112.4	112.4	143.0	183.9	194.1	224.7
95°	541.4	623.1	929.5	1072.5	1082.8	1113.4	1113.4	1409.6	1756.9	1838.7	1920.4
97.5°	1450.5	1552.6	1879.5	2134.9	2502.6	2604.8	2727.3	2972.5	3350.4	3575.2	3687.5
100°	2941.8	2962.3	3135.9	3370.9	3769.2	3994.0	4269.8	4943.9	5281.0	5281.0	5158.4
102.5°	3728.4	3748.8	3902.0	4126.8	4596.6	4933.7	5250.4	6067.6	6751.9	7007.3	7109.5
105°	4392.3	4463.8	4627.3	4943.9	5516.0	5893.9	6190.1	7119.7	7916.4	8355.7	8692.7
107.5°	5240.2	5352.5	5628.3	5996.1	6680.4	7119.7	7497.6	8253.5	8948.1	9387.3	9377.1
110°	6465.9	6527.2	6813.2	7293.3	7885.8	8233.1	8468.0	8999.2	9469.1	9509.9	9530.4
112.5°	7456.8	7681.5	7906.2	8243.3	8703.0	8866.4	8978.8	9305.6	9540.6	9581.4	9509.9
115°	8427.2	8508.9	8621.2	8846.0	9060.5	9223.9	9244.3	9418.0	9469.1	9561.0	9397.6
117.5°	9029.8	9070.7	9080.9	9162.6	9275.0	9366.9	9346.5	9397.6	9458.9	9336.3	9254.6
120°	9346.5	9387.3	9315.8	9346.5	9377.1	9397.6	9356.7	9377.1	9264.8	9172.8	9080.9
122.5°	9469.1	9458.9	9387.3	9387.3	9346.5	9336.3	9254.6	9183.1	9101.3	8978.8	8866.4
125°	9366.9	9407.8	9315.8	9244.3	9152.4	9305.6	9101.3	9029.8	8886.8	8846.0	8631.5
127.5°	9234.1	9315.8	9162.6	9091.1	8999.2	8968.5	8846.0	8743.8	8641.7	8529.3	8386.3
130°	9029.8	9060.5	8917.5	8846.0	8754.0	8662.1	8641.7	8416.9	8345.4	8273.9	8079.9
132.5°	8825.5	8774.5	8631.5	8539.5	8427.2	8376.1	8325.0	8130.9	8028.8	7875.6	7773.4
135°	8427.2	8437.4	8304.6	8202.4	8049.2	8049.2	7957.3	7814.3	7681.5	7548.7	7415.9
137.5°	8049.2	8120.7	7926.6	7834.7	7753.0	7691.7	7569.1	7436.3	7293.3	7242.3	7140.1
140°	7661.1	7671.3	7518.1	7436.3	7375.0	7262.7	7191.2	7068.6	7017.5	6925.6	6782.6
142.5°	7324.0	7283.1	7160.5	7068.6	7007.3	6925.6	6884.7	6762.2	6680.4	6598.7	6547.6
145°	6925.6	6915.4	6772.4	6711.1	6660.0	6629.4	6557.9	6465.9	6425.1	6353.6	6353.6
147.5°	6588.5	6537.4	6455.7	6384.2	6322.9	6292.3	6292.3	6128.8	6159.5	6149.3	6057.3
150°	6231.0	6220.8	6108.4	6077.8	6026.7	6047.1	6026.7	5955.2	5955.2	5914.3	5853.0
152.5°	5945.0	5945.0	5853.0	5832.6	5812.2	5802.0	5761.1	5730.5	5730.5	5720.3	5648.8
155°	5710.0	5710.0	5638.5	5628.3	5597.7	5587.5	5567.0	5536.4	5516.0	5495.5	5434.2
157.5°	5516.0	5505.7	5424.0	5434.2	5403.6	5403.6	5393.4	5332.1	5352.5	5342.3	5301.5
160°	5332.1	5321.9	5240.2	5270.8	5250.4	5250.4	5250.4	5209.5	5189.1	5189.1	5097.2
162.5°	5168.7	5189.1	5107.4	5097.2	5107.4	5107.4	5066.5	5035.9	5066.5	5097.2	5005.2
165°	5025.7	5005.2	4974.6	4964.4	4943.9	4923.5	4943.9	4923.5	4903.1	4943.9	4913.3
167.5°	4882.6	4903.1	4841.8	4821.4	4821.4	4862.2	4831.6	4790.7	4811.1	4800.9	4739.6
170°	4760.1	4780.5	4698.8	4698.8	4698.8	4698.8	4668.1	4637.5	4688.6	4709.0	4637.5
172.5°	4637.5	4668.1	4596.6	4586.4	4576.2	4596.6	4576.2	4545.6	4606.8	4576.2	4545.6
175°	4504.7	4555.8	4484.3	4474.1	4494.5	4494.5	4474.1	4453.6	4494.5	4474.1	4453.6
177.5°	4443.4	4443.4	4371.9	4382.1	4382.1	4371.9	4402.6	4392.3	4402.6	4402.6	4443.4
180°	4351.5	4351.5	4351.5	4351.5	4351.5	4351.5	4351.5	4351.5	4351.5	4351.5	4351.5



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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°	234.9	275.8	296.2	163.4	163.4	183.9	173.7	153.2	132.8	122.6	122.6
95°	1767.2	1675.2	1726.3	1552.6	1348.3	1184.9	1174.7	1184.9	817.2	612.9	602.7
97.5°	3799.9	3759.0	3442.4	2952.1	2809.1	2819.3	2645.6	2196.2	1838.7	1573.1	1358.6
100°	4943.9	4811.1	4668.1	4770.3	4484.3	4259.5	3942.9	3544.5	3125.7	2768.2	2277.9
102.5°	7048.2	6843.9	6322.9	5750.9	5178.9	4974.6	4739.6	4290.2	3851.0	3432.2	2931.6
105°	8968.5	8621.2	7742.8	6925.6	6149.3	5914.3	5607.9	5107.4	4596.6	4177.8	3626.2
107.5°	9428.2	9172.8	8682.5	8130.9	7456.8	7068.6	6782.6	6241.2	5761.1	5189.1	4555.8
110°	9469.1	9213.7	8907.3	8529.3	8202.4	7977.7	7793.8	7385.3	7038.0	6537.4	5893.9
112.5°	9356.7	9121.8	8897.0	8682.5	8427.2	8294.4	8130.9	7987.9	7783.6	7456.8	6854.1
115°	9172.8	8968.5	8764.2	8580.4	8457.8	8396.5	8314.8	8202.4	8090.1	7844.9	7303.5
117.5°	8999.2	8764.2	8580.4	8519.1	8406.7	8314.8	8304.6	8284.2	8212.7	8090.1	7569.1
120°	8825.5	8641.7	8457.8	8325.0	8284.2	8273.9	8273.9	8212.7	8233.1	8130.9	7610.0
122.5°	8549.7	8406.7	8253.5	8192.2	8018.6	8059.4	8079.9	8039.0	8120.7	8049.2	7558.9
125°	8386.3	8243.3	8049.2	7957.3	7926.6	7885.8	7926.6	7855.1	7896.0	7844.9	7467.0
127.5°	8110.5	7926.6	7824.5	7753.0	7732.6	7589.6	7661.1	7671.3	7681.5	7599.8	7262.7
130°	7814.3	7712.1	7477.2	7507.8	7507.8	7456.8	7467.0	7426.1	7405.7	7334.2	6946.0
132.5°	7599.8	7467.0	7313.8	7272.9	7232.0	7221.8	7221.8	7150.3	7150.3	7058.4	6803.0
135°	7221.8	7129.9	7068.6	7027.7	7017.5	6976.7	6976.7	6905.2	6895.0	6813.2	6557.9
137.5°	6956.2	6864.3	6813.2	6782.6	6751.9	6680.4	6721.3	6660.0	6598.7	6578.3	6333.1
140°	6690.7	6619.2	6578.3	6527.2	6517.0	6476.1	6476.1	6404.6	6384.2	6292.3	6047.1
142.5°	6465.9	6425.1	6343.4	6322.9	6251.4	6261.6	6210.6	6220.8	6139.1	6036.9	5842.8
145°	6159.5	6169.7	6128.8	6088.0	6077.8	6016.5	6026.7	5965.4	5914.3	5842.8	5689.6
147.5°	5996.1	5996.1	5934.8	5883.7	5842.8	5832.6	5781.5	5791.8	5710.0	5607.9	5505.7
150°	5781.5	5761.1	5699.8	5669.2	5638.5	5638.5	5587.5	5556.8	5495.5	5464.9	5332.1
152.5°	5628.3	5577.2	5546.6	5485.3	5485.3	5434.2	5393.4	5373.0	5321.9	5260.6	5158.4
155°	5413.8	5393.4	5352.5	5342.3	5301.5	5260.6	5189.1	5178.9	5148.2	5086.9	4995.0
157.5°	5240.2	5270.8	5209.5	5178.9	5117.6	5107.4	5035.9	5046.1	4984.8	4943.9	4862.2
160°	5158.4	5107.4	5046.1	5035.9	5015.4	4933.7	4923.5	4892.9	4852.0	4821.4	4719.2
162.5°	4974.6	4964.4	4933.7	4913.3	4841.8	4841.8	4719.2	4770.3	4739.6	4709.0	4657.9
165°	4872.4	4882.6	4811.1	4790.7	4770.3	4729.4	4698.8	4668.1	4637.5	4617.1	4566.0
167.5°	4739.6	4719.2	4698.8	4657.9	4668.1	4637.5	4606.8	4586.4	4566.0	4545.6	4504.7
170°	4627.3	4617.1	4596.6	4566.0	4576.2	4545.6	4545.6	4504.7	4494.5	4484.3	4433.2
172.5°	4535.3	4535.3	4514.9	4514.9	4504.7	4474.1	4453.6	4433.2	4433.2	4412.8	4402.6
175°	4443.4	4453.6	4443.4	4433.2	4433.2	4412.8	4412.8	4423.0	4402.6	4402.6	4371.9
177.5°	4371.9	4371.9	4371.9	4371.9	4371.9	4371.9	4371.9	4361.7	4371.9	4361.7	4331.1
180°	4351.5	4351.5	4351.5	4351.5	4351.5	4351.5	4351.5	4351.5	4351.5	4351.5	4351.5



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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°	132.8	143.0	153.2	163.4	194.1	183.9	214.5	224.7	245.2	286.0	296.2
95°	541.4	541.4	531.2	531.2	510.7	510.7	500.5	490.3	541.4	602.7	684.4
97.5°	1113.4	950.0	868.3	837.6	827.4	817.2	796.7	766.1	786.5	837.6	939.8
100°	1879.5	1552.6	1287.1	1133.8	1103.2	1052.1	1031.7	1021.5	1021.5	1123.6	1287.1
102.5°	2431.1	1951.0	1603.7	1379.0	1317.7	1266.6	1236.0	1236.0	1256.4	1379.0	1562.9
105°	3074.6	2461.8	1930.6	1634.4	1583.3	1511.8	1460.7	1470.9	1491.4	1603.7	1767.2
107.5°	3851.0	3115.5	2482.2	2022.5	1910.2	1808.0	1726.3	1726.3	1736.5	1808.0	1930.6
110°	5015.4	4065.5	3115.5	2431.1	2247.2	2134.9	1940.8	1940.8	1930.6	1981.7	2063.4
112.5°	5904.1	4800.9	3718.2	2839.7	2584.3	2400.5	2196.2	2134.9	2134.9	2145.1	2196.2
115°	6435.3	5291.2	4137.0	3217.6	2880.6	2655.8	2400.5	2329.0	2298.3	2318.7	2298.3
117.5°	6741.7	5587.5	4494.5	3493.4	3176.8	2921.4	2604.8	2512.8	2461.8	2502.6	2492.4
120°	6895.0	5853.0	4780.5	3779.5	3452.6	3156.4	2819.3	2727.3	2686.5	2686.5	2696.7
122.5°	6915.4	5996.1	4943.9	4034.8	3708.0	3421.9	3074.6	2941.8	2901.0	2911.2	2911.2
125°	6843.9	5975.6	5097.2	4239.1	3922.5	3636.4	3278.9	3166.6	3074.6	3115.5	3125.7
127.5°	6731.5	5924.6	5189.1	4402.6	4116.5	3861.2	3534.3	3401.5	3319.8	3340.2	3330.0
130°	6568.1	5863.3	5270.8	4545.6	4300.4	4045.0	3759.0	3636.4	3524.1	3534.3	3544.5
132.5°	6404.6	5842.8	5311.7	4657.9	4453.6	4239.1	3953.1	3830.5	3728.4	3738.6	3738.6
135°	6231.0	5791.8	5260.6	4729.4	4627.3	4402.6	4167.6	4034.8	3953.1	3953.1	3932.7
137.5°	6047.1	5669.2	5301.5	4872.4	4729.4	4545.6	4310.6	4208.5	4126.8	4116.5	4106.3
140°	5883.7	5536.4	5250.4	4903.1	4800.9	4657.9	4463.8	4382.1	4269.8	4249.3	4310.6
142.5°	5720.3	5475.1	5301.5	4974.6	4872.4	4749.9	4606.8	4494.5	4412.8	4392.3	4382.1
145°	5556.8	5413.8	5219.7	4954.1	4913.3	4790.7	4637.5	4606.8	4514.9	4494.5	4494.5
147.5°	5393.4	5270.8	5127.8	4943.9	4943.9	4841.8	4770.3	4678.4	4606.8	4566.0	4566.0
150°	5250.4	5148.2	5076.7	4933.7	4923.5	4841.8	4780.5	4739.6	4657.9	4637.5	4627.3
152.5°	5117.6	5025.7	4964.4	4872.4	4862.2	4749.9	4770.3	4729.4	4647.7	4627.3	4627.3
155°	4954.1	4943.9	4872.4	4780.5	4821.4	4760.1	4709.0	4760.1	4637.5	4657.9	4657.9
157.5°	4841.8	4831.6	4821.4	4729.4	4739.6	4709.0	4678.4	4719.2	4617.1	4627.3	4627.3
160°	4719.2	4698.8	4698.8	4617.1	4678.4	4617.1	4627.3	4647.7	4586.4	4596.6	4627.3
162.5°	4657.9	4617.1	4617.1	4586.4	4606.8	4586.4	4535.3	4606.8	4596.6	4576.2	4586.4
165°	4555.8	4545.6	4566.0	4504.7	4555.8	4494.5	4514.9	4545.6	4525.1	4535.3	4545.6
167.5°	4494.5	4484.3	4494.5	4463.8	4494.5	4474.1	4463.8	4504.7	4484.3	4494.5	4504.7
170°	4443.4	4443.4	4453.6	4423.0	4453.6	4423.0	4453.6	4453.6	4443.4	4443.4	4463.8
172.5°	4423.0	4392.3	4423.0	4371.9	4423.0	4361.7	4382.1	4412.8	4402.6	4392.3	4392.3
175°	4382.1	4371.9	4402.6	4351.5	4382.1	4351.5	4351.5	4382.1	4371.9	4361.7	4402.6
177.5°	4382.1	4351.5	4382.1	4331.1	4361.7	4341.3	4341.3	4371.9	4351.5	4351.5	4382.1
180°	4351.5	4351.5	4351.5	4351.5	4351.5	4351.5	4351.5	4351.5	4351.5	4351.5	4351.5



TEST NUMBER: P508407

CATALOG NUMBER: ASYX-X-L6-X-U-W-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°	296.2	347.3	357.5	388.2	377.9	316.7	275.8	224.7	194.1
95°	776.3	858.0	939.8	929.5	960.2	898.9	837.6	807.0	766.1
97.5°	1041.9	1174.7	1256.4	1256.4	1266.6	1225.8	1205.3	1225.8	1174.7
100°	1470.9	1562.9	1593.5	1583.3	1552.6	1481.1	1440.3	1419.8	1389.2
102.5°	1726.3	1828.4	1859.1	1838.7	1818.2	1787.6	1746.7	1726.3	1716.1
105°	1899.9	1991.9	2032.7	2022.5	2012.3	1961.2	1879.5	1910.2	1899.9
107.5°	2063.4	2124.7	2165.5	2134.9	2124.7	2094.0	2042.9	2073.6	2032.7
110°	2165.5	2216.6	2226.8	2226.8	2206.4	2175.7	2134.9	2145.1	2114.5
112.5°	2247.2	2277.9	2277.9	2277.9	2257.5	2216.6	2196.2	2175.7	2175.7
115°	2339.2	2318.7	2329.0	2329.0	2308.5	2247.2	2216.6	2196.2	2175.7
117.5°	2502.6	2472.0	2441.3	2441.3	2390.2	2349.4	2318.7	2288.1	2257.5
120°	2655.8	2635.4	2615.0	2584.3	2553.7	2502.6	2451.5	2410.7	2390.2
122.5°	2860.1	2809.1	2778.4	2798.8	2737.6	2686.5	2625.2	2584.3	2533.3
125°	3084.9	3044.0	2992.9	2972.5	2921.4	2880.6	2829.5	2788.6	2727.3
127.5°	3278.9	3217.6	3197.2	3187.0	3125.7	3074.6	2992.9	2962.3	2962.3
130°	3503.7	3432.2	3442.4	3391.3	3340.2	3258.5	3176.8	3176.8	3166.6
132.5°	3718.2	3636.4	3626.2	3605.8	3544.5	3483.2	3432.2	3421.9	3381.1
135°	3891.8	3830.5	3820.3	3799.9	3748.8	3687.5	3605.8	3626.2	3544.5
137.5°	4045.0	4014.4	4004.2	3963.3	3912.2	3902.0	3810.1	3799.9	3748.8
140°	4218.7	4157.4	4198.3	4147.2	4085.9	4065.5	3942.9	3963.3	3963.3
142.5°	4341.3	4310.6	4300.4	4280.0	4239.1	4198.3	4167.6	4126.8	4147.2
145°	4463.8	4443.4	4423.0	4423.0	4361.7	4341.3	4280.0	4280.0	4249.3
147.5°	4566.0	4525.1	4525.1	4504.7	4474.1	4453.6	4392.3	4423.0	4371.9
150°	4566.0	4586.4	4566.0	4566.0	4576.2	4566.0	4514.9	4494.5	4504.7
152.5°	4647.7	4617.1	4596.6	4637.5	4586.4	4617.1	4545.6	4566.0	4545.6
155°	4606.8	4627.3	4637.5	4617.1	4617.1	4617.1	4586.4	4637.5	4586.4
157.5°	4647.7	4627.3	4637.5	4627.3	4606.8	4637.5	4606.8	4647.7	4617.1
160°	4627.3	4606.8	4627.3	4617.1	4596.6	4637.5	4637.5	4668.1	4627.3
162.5°	4555.8	4576.2	4627.3	4596.6	4596.6	4668.1	4555.8	4657.9	4596.6
165°	4535.3	4545.6	4566.0	4586.4	4545.6	4576.2	4576.2	4586.4	4555.8
167.5°	4514.9	4474.1	4514.9	4514.9	4525.1	4525.1	4525.1	4545.6	4504.7
170°	4474.1	4392.3	4474.1	4474.1	4453.6	4453.6	4443.4	4504.7	4453.6
172.5°	4402.6	4382.1	4412.8	4412.8	4433.2	4423.0	4423.0	4433.2	4402.6
175°	4361.7	4371.9	4412.8	4382.1	4371.9	4382.1	4351.5	4382.1	4351.5
177.5°	4341.3	4341.3	4351.5	4361.7	4382.1	4361.7	4331.1	4361.7	4331.1
180°	4351.5	4351.5	4351.5	4351.5	4351.5	4351.5	4351.5	4351.5	4351.5

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