

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: P508409

Luminaire Tested: **ASYX-X-L6-X-U-W-L35-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508409
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-L35-1-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

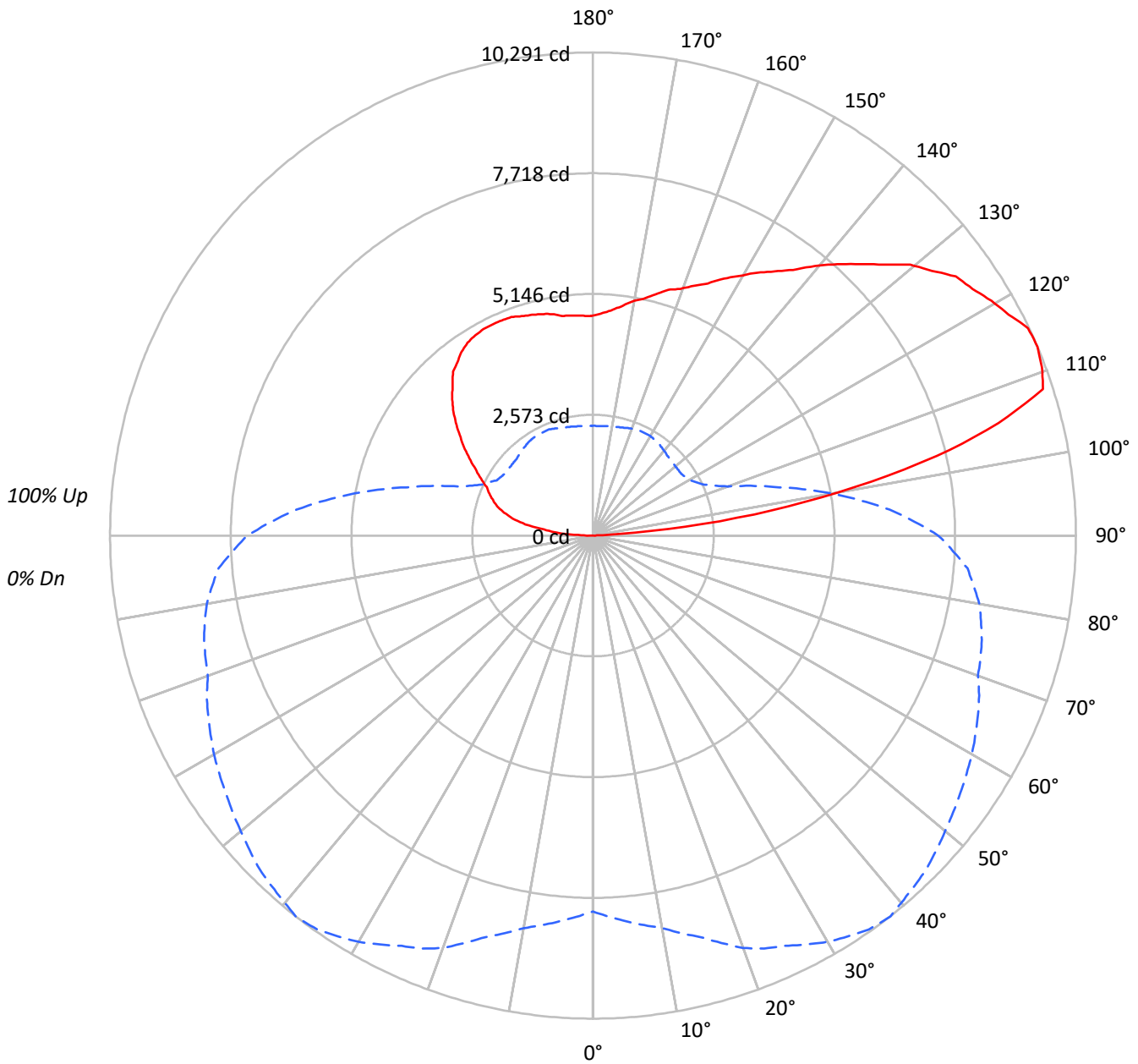
Lumens per Lamp: N/A
Luminaire Lumens: 30939.4 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
N/A
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
CIE Type: Indirect

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: P508409
CATALOG NUMBER: ASYX-X-L6-X-U-W-L35-1-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									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°	47878	53295	67753
100°	130578	101105	61660
105°	130802	107986	56580
110°	145711	132821	47650
115°	153690	133197	39680
120°	144076	117308	36846
125°	125869	100338	36649
130°	108274	83287	37969
135°	91856	71481	38636
140°	77081	60843	39877
145°	65164	53535	39982
150°	55454	47455	40091
155°	48560	42479	39005
160°	43735	38708	37953
165°	40101	36434	36352
170°	37254	34696	34856
175°	34853	33826	33667



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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°	1266.3	4.1
100°-110°	4583.6	14.8
110°-120°	6178.9	20.0
120°-130°	5880.9	19.0
130°-140°	4899.8	15.8
140°-150°	3711.9	12.0
150°-160°	2526.1	8.2
160°-170°	1435.3	4.6
170°-180°	456.6	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°	12028.8	38.9
90°-150°	26521.4	85.7
90°-180°	30939.0	100.0
0°-180°	30939.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	582	1898	647	647	823	1034
105°	4718	9633	3895	1722	2041	5118
115°	9051	9852	7844	2490	2337	8728
125°	10061	9008	8020	3346	2929	8979
135°	9051	7757	7044	4246	3807	7013
145°	7439	6616	6111	4827	4564	4706
155°	6133	5815	5365	5003	4926	2866
165°	5398	5233	4904	4871	4893	1541
175°	4838	4773	4696	4685	4674	471
180°	4674	4674	4674	4674	4674	



TEST NUMBER: P508409

CATALOG NUMBER: ASYX-X-L6-X-U-W-L35-1-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°	87.8	87.8	87.8	98.7	109.7	120.7	120.7	153.6	197.5	208.5	241.4
95°	581.5	669.3	998.4	1152.0	1163.0	1195.9	1195.9	1514.1	1887.1	1974.9	2062.6
97.5°	1557.9	1667.7	2018.7	2293.0	2688.0	2797.7	2929.4	3192.7	3598.6	3840.0	3960.7
100°	3159.8	3181.7	3368.2	3620.6	4048.4	4289.8	4586.0	5310.2	5672.2	5672.2	5540.6
102.5°	4004.6	4026.5	4191.1	4432.4	4937.1	5299.2	5639.3	6517.0	7252.1	7526.4	7636.1
105°	4717.7	4794.5	4970.0	5310.2	5924.6	6330.5	6648.7	7647.1	8502.8	8974.6	9336.7
107.5°	5628.3	5749.0	6045.2	6440.2	7175.3	7647.1	8053.0	8864.9	9610.9	10082.7	10071.7
110°	6944.9	7010.7	7317.9	7833.6	8469.9	8842.9	9095.3	9665.8	10170.5	10214.4	10236.3
112.5°	8009.1	8250.5	8491.9	8853.9	9347.6	9523.2	9643.9	9994.9	10247.3	10291.2	10214.4
115°	9051.4	9139.2	9259.9	9501.2	9731.6	9907.2	9929.1	10115.6	10170.5	10269.2	10093.7
117.5°	9698.7	9742.6	9753.6	9841.3	9962.0	10060.8	10038.8	10093.7	10159.5	10027.9	9940.1
120°	10038.8	10082.7	10005.9	10038.8	10071.7	10093.7	10049.8	10071.7	9951.1	9852.3	9753.6
122.5°	10170.5	10159.5	10082.7	10082.7	10038.8	10027.9	9940.1	9863.3	9775.5	9643.9	9523.2
125°	10060.8	10104.6	10005.9	9929.1	9830.4	9994.9	9775.5	9698.7	9545.1	9501.2	9270.8
127.5°	9918.1	10005.9	9841.3	9764.5	9665.8	9632.9	9501.2	9391.5	9281.8	9161.1	9007.5
130°	9698.7	9731.6	9578.0	9501.2	9402.5	9303.7	9281.8	9040.4	8963.6	8886.8	8678.4
132.5°	9479.3	9424.4	9270.8	9172.1	9051.4	8996.5	8941.7	8733.2	8623.5	8458.9	8349.2
135°	9051.4	9062.4	8919.7	8810.0	8645.5	8645.5	8546.7	8393.1	8250.5	8107.9	7965.2
137.5°	8645.5	8722.3	8513.8	8415.1	8327.3	8261.5	8129.8	7987.2	7833.6	7778.7	7669.0
140°	8228.5	8239.5	8074.9	7987.2	7921.3	7800.7	7723.9	7592.2	7537.3	7438.6	7285.0
142.5°	7866.5	7822.6	7690.9	7592.2	7526.4	7438.6	7394.7	7263.1	7175.3	7087.5	7032.7
145°	7438.6	7427.6	7274.0	7208.2	7153.3	7120.4	7043.6	6944.9	6901.0	6824.2	6824.2
147.5°	7076.5	7021.7	6933.9	6857.1	6791.3	6758.4	6758.4	6582.8	6615.7	6604.8	6506.0
150°	6692.5	6681.6	6560.9	6528.0	6473.1	6495.1	6473.1	6396.3	6396.3	6352.4	6286.6
152.5°	6385.3	6385.3	6286.6	6264.7	6242.7	6231.7	6187.9	6154.9	6154.9	6144.0	6067.2
155°	6133.0	6133.0	6056.2	6045.2	6012.3	6001.4	5979.4	5946.5	5924.6	5902.6	5836.8
157.5°	5924.6	5913.6	5825.8	5836.8	5803.9	5803.9	5792.9	5727.1	5749.0	5738.0	5694.2
160°	5727.1	5716.1	5628.3	5661.2	5639.3	5639.3	5639.3	5595.4	5573.5	5573.5	5474.7
162.5°	5551.5	5573.5	5485.7	5474.7	5485.7	5485.7	5441.8	5408.9	5441.8	5474.7	5376.0
165°	5397.9	5376.0	5343.1	5332.1	5310.2	5288.2	5310.2	5288.2	5266.3	5310.2	5277.2
167.5°	5244.3	5266.3	5200.4	5178.5	5178.5	5222.4	5189.5	5145.6	5167.5	5156.6	5090.7
170°	5112.7	5134.6	5046.8	5046.8	5046.8	5046.8	5013.9	4981.0	5035.9	5057.8	4981.0
172.5°	4981.0	5013.9	4937.1	4926.2	4915.2	4937.1	4915.2	4882.3	4948.1	4915.2	4882.3
175°	4838.4	4893.2	4816.4	4805.5	4827.4	4827.4	4805.5	4783.5	4827.4	4805.5	4783.5
177.5°	4772.6	4772.6	4695.8	4706.7	4706.7	4695.8	4728.7	4717.7	4728.7	4728.7	4772.6
180°	4673.8	4673.8	4673.8	4673.8	4673.8	4673.8	4673.8	4673.8	4673.8	4673.8	4673.8



TEST NUMBER: P508409

CATALOG NUMBER: ASYX-X-L6-X-U-W-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°	252.3	296.2	318.2	175.5	175.5	197.5	186.5	164.6	142.6	131.7	131.7
95°	1898.1	1799.3	1854.2	1667.7	1448.2	1272.7	1261.7	1272.7	877.7	658.3	647.3
97.5°	4081.4	4037.5	3697.4	3170.7	3017.1	3028.1	2841.6	2358.8	1974.9	1689.6	1459.2
100°	5310.2	5167.5	5013.9	5123.6	4816.4	4575.1	4235.0	3807.1	3357.2	2973.2	2446.6
102.5°	7570.3	7350.8	6791.3	6176.9	5562.5	5343.1	5090.7	4608.0	4136.2	3686.4	3148.8
105°	9632.9	9259.9	8316.3	7438.6	6604.8	6352.4	6023.3	5485.7	4937.1	4487.3	3894.8
107.5°	10126.6	9852.3	9325.7	8733.2	8009.1	7592.2	7285.0	6703.5	6187.9	5573.5	4893.2
110°	10170.5	9896.2	9567.1	9161.1	8810.0	8568.7	8371.2	7932.3	7559.3	7021.7	6330.5
112.5°	10049.8	9797.5	9556.1	9325.7	9051.4	8908.8	8733.2	8579.6	8360.2	8009.1	7361.8
115°	9852.3	9632.9	9413.5	9216.0	9084.3	9018.5	8930.7	8810.0	8689.3	8426.0	7844.5
117.5°	9665.8	9413.5	9216.0	9150.1	9029.5	8930.7	8919.7	8897.8	8821.0	8689.3	8129.8
120°	9479.3	9281.8	9084.3	8941.7	8897.8	8886.8	8886.8	8821.0	8842.9	8733.2	8173.7
122.5°	9183.1	9029.5	8864.9	8799.1	8612.5	8656.4	8678.4	8634.5	8722.3	8645.5	8118.8
125°	9007.5	8853.9	8645.5	8546.7	8513.8	8469.9	8513.8	8437.0	8480.9	8426.0	8020.1
127.5°	8711.3	8513.8	8404.1	8327.3	8305.3	8151.7	8228.5	8239.5	8250.5	8162.7	7800.7
130°	8393.1	8283.4	8031.1	8064.0	8064.0	8009.1	8020.1	7976.2	7954.3	7877.5	7460.5
132.5°	8162.7	8020.1	7855.5	7811.6	7767.7	7756.8	7756.8	7680.0	7680.0	7581.2	7306.9
135°	7756.8	7658.0	7592.2	7548.3	7537.3	7493.5	7493.5	7416.7	7405.7	7317.9	7043.6
137.5°	7471.5	7372.8	7317.9	7285.0	7252.1	7175.3	7219.2	7153.3	7087.5	7065.6	6802.3
140°	7186.3	7109.5	7065.6	7010.7	6999.7	6955.9	6955.9	6879.1	6857.1	6758.4	6495.1
142.5°	6944.9	6901.0	6813.2	6791.3	6714.5	6725.5	6670.6	6681.6	6593.8	6484.1	6275.6
145°	6615.7	6626.7	6582.8	6538.9	6528.0	6462.1	6473.1	6407.3	6352.4	6275.6	6111.1
147.5°	6440.2	6440.2	6374.4	6319.5	6275.6	6264.7	6209.8	6220.8	6133.0	6023.3	5913.6
150°	6209.8	6187.9	6122.0	6089.1	6056.2	6056.2	6001.4	5968.4	5902.6	5869.7	5727.1
152.5°	6045.2	5990.4	5957.5	5891.6	5891.6	5836.8	5792.9	5771.0	5716.1	5650.3	5540.6
155°	5814.8	5792.9	5749.0	5738.0	5694.2	5650.3	5573.5	5562.5	5529.6	5463.8	5365.0
157.5°	5628.3	5661.2	5595.4	5562.5	5496.7	5485.7	5408.9	5419.9	5354.0	5310.2	5222.4
160°	5540.6	5485.7	5419.9	5408.9	5387.0	5299.2	5288.2	5255.3	5211.4	5178.5	5068.8
162.5°	5343.1	5332.1	5299.2	5277.2	5200.4	5200.4	5068.8	5123.6	5090.7	5057.8	5003.0
165°	5233.4	5244.3	5167.5	5145.6	5123.6	5079.8	5046.8	5013.9	4981.0	4959.1	4904.2
167.5°	5090.7	5068.8	5046.8	5003.0	5013.9	4981.0	4948.1	4926.2	4904.2	4882.3	4838.4
170°	4970.0	4959.1	4937.1	4904.2	4915.2	4882.3	4882.3	4838.4	4827.4	4816.4	4761.6
172.5°	4871.3	4871.3	4849.4	4849.4	4838.4	4805.5	4783.5	4761.6	4761.6	4739.6	4728.7
175°	4772.6	4783.5	4772.6	4761.6	4761.6	4739.6	4739.6	4750.6	4728.7	4728.7	4695.8
177.5°	4695.8	4695.8	4695.8	4695.8	4695.8	4695.8	4695.8	4684.8	4695.8	4684.8	4651.9
180°	4673.8	4673.8	4673.8	4673.8	4673.8	4673.8	4673.8	4673.8	4673.8	4673.8	4673.8



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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°	142.6	153.6	164.6	175.5	208.5	197.5	230.4	241.4	263.3	307.2	318.2
95°	581.5	581.5	570.5	570.5	548.6	548.6	537.6	526.6	581.5	647.3	735.1
97.5°	1195.9	1020.3	932.6	899.7	888.7	877.7	855.8	822.9	844.8	899.7	1009.4
100°	2018.7	1667.7	1382.4	1217.8	1184.9	1130.1	1108.1	1097.1	1097.1	1206.9	1382.4
102.5°	2611.2	2095.5	1722.5	1481.1	1415.3	1360.5	1327.5	1327.5	1349.5	1481.1	1678.6
105°	3302.4	2644.1	2073.6	1755.4	1700.6	1623.8	1568.9	1579.9	1601.8	1722.5	1898.1
107.5°	4136.2	3346.3	2666.0	2172.3	2051.6	1941.9	1854.2	1854.2	1865.1	1941.9	2073.6
110°	5387.0	4366.6	3346.3	2611.2	2413.7	2293.0	2084.6	2084.6	2073.6	2128.4	2216.2
112.5°	6341.5	5156.6	3993.6	3050.0	2775.8	2578.3	2358.8	2293.0	2293.0	2304.0	2358.8
115°	6912.0	5683.2	4443.4	3456.0	3093.9	2852.6	2578.3	2501.5	2468.6	2490.5	2468.6
117.5°	7241.1	6001.4	4827.4	3752.2	3412.1	3137.8	2797.7	2699.0	2644.1	2688.0	2677.0
120°	7405.7	6286.6	5134.6	4059.4	3708.3	3390.2	3028.1	2929.4	2885.5	2885.5	2896.4
122.5°	7427.6	6440.2	5310.2	4333.7	3982.6	3675.4	3302.4	3159.8	3115.9	3126.8	3126.8
125°	7350.8	6418.3	5474.7	4553.1	4213.0	3905.8	3521.8	3401.1	3302.4	3346.3	3357.2
127.5°	7230.1	6363.4	5573.5	4728.7	4421.5	4147.2	3796.1	3653.5	3565.7	3587.6	3576.7
130°	7054.6	6297.6	5661.2	4882.3	4619.0	4344.7	4037.5	3905.8	3785.1	3796.1	3807.1
132.5°	6879.1	6275.6	5705.1	5003.0	4783.5	4553.1	4245.9	4114.3	4004.6	4015.5	4015.5
135°	6692.5	6220.8	5650.3	5079.8	4970.0	4728.7	4476.3	4333.7	4245.9	4245.9	4224.0
137.5°	6495.1	6089.1	5694.2	5233.4	5079.8	4882.3	4629.9	4520.2	4432.4	4421.5	4410.5
140°	6319.5	5946.5	5639.3	5266.3	5156.6	5003.0	4794.5	4706.7	4586.0	4564.1	4629.9
142.5°	6144.0	5880.7	5694.2	5343.1	5233.4	5101.7	4948.1	4827.4	4739.6	4717.7	4706.7
145°	5968.4	5814.8	5606.4	5321.1	5277.2	5145.6	4981.0	4948.1	4849.4	4827.4	4827.4
147.5°	5792.9	5661.2	5507.6	5310.2	5310.2	5200.4	5123.6	5024.9	4948.1	4904.2	4904.2
150°	5639.3	5529.6	5452.8	5299.2	5288.2	5200.4	5134.6	5090.7	5003.0	4981.0	4970.0
152.5°	5496.7	5397.9	5332.1	5233.4	5222.4	5101.7	5123.6	5079.8	4992.0	4970.0	4970.0
155°	5321.1	5310.2	5233.4	5134.6	5178.5	5112.7	5057.8	5112.7	4981.0	5003.0	5003.0
157.5°	5200.4	5189.5	5178.5	5079.8	5090.7	5057.8	5024.9	5068.8	4959.1	4970.0	4970.0
160°	5068.8	5046.8	5046.8	4959.1	5024.9	4959.1	4970.0	4992.0	4926.2	4937.1	4970.0
162.5°	5003.0	4959.1	4959.1	4926.2	4948.1	4926.2	4871.3	4948.1	4937.1	4915.2	4926.2
165°	4893.2	4882.3	4904.2	4838.4	4893.2	4827.4	4849.4	4882.3	4860.3	4871.3	4882.3
167.5°	4827.4	4816.4	4827.4	4794.5	4827.4	4805.5	4794.5	4838.4	4816.4	4827.4	4838.4
170°	4772.6	4772.6	4783.5	4750.6	4783.5	4750.6	4783.5	4783.5	4772.6	4772.6	4794.5
172.5°	4750.6	4717.7	4750.6	4695.8	4750.6	4684.8	4706.7	4739.6	4728.7	4717.7	4717.7
175°	4706.7	4695.8	4728.7	4673.8	4706.7	4673.8	4673.8	4706.7	4695.8	4684.8	4728.7
177.5°	4706.7	4673.8	4706.7	4651.9	4684.8	4662.8	4662.8	4695.8	4673.8	4673.8	4706.7
180°	4673.8	4673.8	4673.8	4673.8	4673.8	4673.8	4673.8	4673.8	4673.8	4673.8	4673.8



TEST NUMBER: P508409

CATALOG NUMBER: ASYX-X-L6-X-U-W-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°	318.2	373.0	384.0	416.9	405.9	340.1	296.2	241.4	208.5
95°	833.8	921.6	1009.4	998.4	1031.3	965.5	899.7	866.7	822.9
97.5°	1119.1	1261.7	1349.5	1349.5	1360.5	1316.6	1294.6	1316.6	1261.7
100°	1579.9	1678.6	1711.5	1700.6	1667.7	1590.9	1547.0	1525.0	1492.1
102.5°	1854.2	1963.9	1996.8	1974.9	1952.9	1920.0	1876.1	1854.2	1843.2
105°	2040.7	2139.4	2183.3	2172.3	2161.4	2106.5	2018.7	2051.6	2040.7
107.5°	2216.2	2282.0	2325.9	2293.0	2282.0	2249.1	2194.3	2227.2	2183.3
110°	2325.9	2380.8	2391.8	2391.8	2369.8	2336.9	2293.0	2304.0	2271.1
112.5°	2413.7	2446.6	2446.6	2446.6	2424.7	2380.8	2358.8	2336.9	2336.9
115°	2512.4	2490.5	2501.5	2501.5	2479.5	2413.7	2380.8	2358.8	2336.9
117.5°	2688.0	2655.1	2622.2	2622.2	2567.3	2523.4	2490.5	2457.6	2424.7
120°	2852.6	2830.6	2808.7	2775.8	2742.8	2688.0	2633.1	2589.2	2567.3
122.5°	3072.0	3017.1	2984.2	3006.2	2940.3	2885.5	2819.6	2775.8	2720.9
125°	3313.4	3269.5	3214.6	3192.7	3137.8	3093.9	3039.1	2995.2	2929.4
127.5°	3521.8	3456.0	3434.0	3423.1	3357.2	3302.4	3214.6	3181.7	3181.7
130°	3763.2	3686.4	3697.4	3642.5	3587.6	3499.9	3412.1	3412.1	3401.1
132.5°	3993.6	3905.8	3894.8	3872.9	3807.1	3741.2	3686.4	3675.4	3631.5
135°	4180.1	4114.3	4103.3	4081.4	4026.5	3960.7	3872.9	3894.8	3807.1
137.5°	4344.7	4311.8	4300.8	4256.9	4202.0	4191.1	4092.3	4081.4	4026.5
140°	4531.2	4465.4	4509.2	4454.4	4388.6	4366.6	4235.0	4256.9	4256.9
142.5°	4662.8	4629.9	4619.0	4597.0	4553.1	4509.2	4476.3	4432.4	4454.4
145°	4794.5	4772.6	4750.6	4750.6	4684.8	4662.8	4597.0	4597.0	4564.1
147.5°	4904.2	4860.3	4860.3	4838.4	4805.5	4783.5	4717.7	4750.6	4695.8
150°	4904.2	4926.2	4904.2	4904.2	4915.2	4904.2	4849.4	4827.4	4838.4
152.5°	4992.0	4959.1	4937.1	4981.0	4926.2	4959.1	4882.3	4904.2	4882.3
155°	4948.1	4970.0	4981.0	4959.1	4959.1	4959.1	4926.2	4981.0	4926.2
157.5°	4992.0	4970.0	4981.0	4970.0	4948.1	4981.0	4948.1	4992.0	4959.1
160°	4970.0	4948.1	4970.0	4959.1	4937.1	4981.0	4981.0	5013.9	4970.0
162.5°	4893.2	4915.2	4970.0	4937.1	4937.1	5013.9	4893.2	5003.0	4937.1
165°	4871.3	4882.3	4904.2	4926.2	4882.3	4915.2	4915.2	4926.2	4893.2
167.5°	4849.4	4805.5	4849.4	4849.4	4860.3	4860.3	4860.3	4882.3	4838.4
170°	4805.5	4717.7	4805.5	4805.5	4783.5	4783.5	4772.6	4838.4	4783.5
172.5°	4728.7	4706.7	4739.6	4739.6	4761.6	4750.6	4750.6	4761.6	4728.7
175°	4684.8	4695.8	4739.6	4706.7	4695.8	4706.7	4673.8	4706.7	4673.8
177.5°	4662.8	4662.8	4673.8	4684.8	4706.7	4684.8	4651.9	4684.8	4651.9
180°	4673.8	4673.8	4673.8	4673.8	4673.8	4673.8	4673.8	4673.8	4673.8

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