

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: P508396

Luminaire Tested: **ASYX-X-L6-X-U-F-L30-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508396
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-L30-1-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

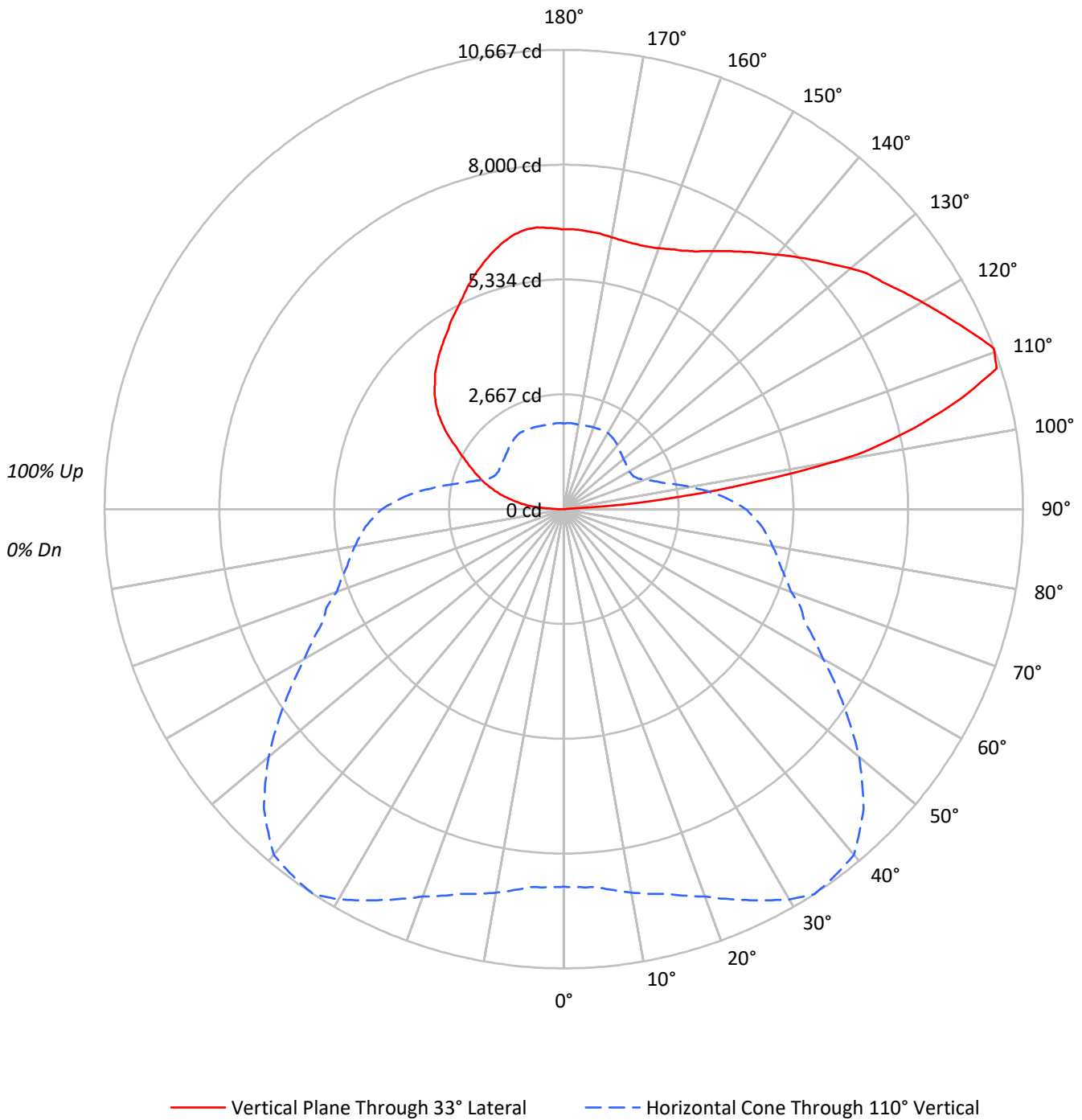
Lumens per Lamp: N/A
Luminaire Lumens: 30867.8 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
N/A
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
CIE Type: Indirect

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: P508396
CATALOG NUMBER: ASYX-X-L6-X-U-F-L30-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot





TEST NUMBER: P508396

CATALOG NUMBER: ASYX-X-L6-X-U-F-L30-1-UNV-X-X-X-STD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				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°	75007	28784	62797
100°	190424	61284	51656
105°	185030	67845	44056
110°	184027	88679	41784
115°	160441	100545	38311
120°	133330	98820	36943
125°	113577	92108	37638
130°	97090	84437	39735
135°	83529	77616	40206
140°	72835	71645	40089
145°	64030	66072	40367
150°	56176	61706	40376
155°	51582	57873	40930
160°	47727	53956	42308
165°	46116	51074	44385
170°	45927	48783	46235
175°	47004	47233	46623



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CATALOG NUMBER: ASYX-X-L6-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°	1120.5	3.6
100°-110°	4132.6	13.4
110°-120°	5607.3	18.2
120°-130°	5582.4	18.1
130°-140°	4969.7	16.1
140°-150°	4038.4	13.1
150°-160°	2965.3	9.6
160°-170°	1829.9	5.9
170°-180°	621.7	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°	10860.4	35.2
90°-150°	25450.9	82.5
90°-180°	30868.0	100.0
0°-180°	30867.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	911	1345	350	530	763	1509
105°	6674	8962	2447	1441	1589	7102
115°	9449	9724	5922	2299	2256	9239
125°	9078	9078	7362	3263	3008	8114
135°	8231	8263	7648	4121	3962	6412
145°	7309	7330	7542	4883	4608	4597
155°	6515	6737	7309	5731	5169	3006
165°	6208	6430	6875	6366	5974	1773
175°	6525	6462	6557	6557	6472	613
180°	6504	6504	6504	6504	6504	



TEST NUMBER: P508396

CATALOG NUMBER: ASYX-X-L6-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°	53.0	53.0	53.0	63.6	74.2	74.2	95.3	105.9	95.3	137.7	158.9
95°	911.0	1048.7	1504.2	1790.2	1769.0	1673.7	1779.6	2086.8	2245.7	2044.5	1737.3
97.5°	2288.1	2372.8	3315.6	3760.5	4152.5	4343.2	4512.6	4374.9	4449.1	4406.7	4014.8
100°	4608.0	4883.4	5211.8	5667.3	6228.7	6631.3	6938.5	7182.1	6949.1	6578.3	5497.8
102.5°	5900.3	5995.7	6218.1	6451.2	7055.0	7351.6	7658.8	8188.4	8347.3	8273.2	7690.6
105°	6673.6	6726.6	6938.5	7288.0	7754.1	8082.5	8463.9	9152.4	9555.0	9597.3	9639.7
107.5°	7648.2	7764.7	8019.0	8241.4	8792.2	9173.6	9512.6	10222.3	10571.9	10593.1	10444.8
110°	8771.1	8813.4	9046.5	9258.3	9576.1	9798.6	10021.0	10466.0	10667.2	10635.4	10487.1
112.5°	9374.9	9427.8	9512.6	9586.7	9735.0	9830.4	9968.1	10254.1	10370.6	10402.4	10254.1
115°	9449.0	9449.0	9512.6	9523.2	9692.7	9692.7	9756.2	10031.6	10084.6	10127.0	10042.2
117.5°	9385.5	9406.6	9449.0	9427.8	9502.0	9607.9	9586.7	9756.2	9819.8	9788.0	9819.8
120°	9290.1	9268.9	9353.7	9311.3	9364.3	9427.8	9385.5	9512.6	9565.5	9544.4	9650.3
122.5°	9194.8	9194.8	9226.6	9216.0	9194.8	9173.6	9184.2	9268.9	9321.9	9311.3	9374.9
125°	9078.3	9067.7	9057.1	9014.7	9067.7	9035.9	8982.9	9046.5	9088.9	9067.7	9131.2
127.5°	8887.6	8898.2	8877.0	8855.8	8792.2	8781.7	8834.6	8802.8	8908.8	8845.2	8908.8
130°	8696.9	8696.9	8675.7	8633.4	8612.2	8569.8	8559.2	8580.4	8643.9	8665.1	8569.8
132.5°	8548.6	8474.5	8421.5	8389.7	8389.7	8347.3	8326.2	8347.3	8379.1	8432.1	8442.7
135°	8230.8	8188.4	8188.4	8146.1	8209.6	8114.3	8093.1	8124.9	8135.5	8135.5	8199.0
137.5°	8050.7	7944.8	7902.4	7891.8	7881.2	7849.5	7849.5	7891.8	7902.4	7891.8	7944.8
140°	7775.3	7658.8	7701.2	7648.2	7658.8	7605.8	7627.0	7627.0	7669.4	7669.4	7722.3
142.5°	7616.4	7446.9	7425.7	7394.0	7404.6	7383.4	7489.3	7415.2	7457.5	7531.7	7499.9
145°	7309.2	7171.5	7203.3	7171.5	7182.1	7160.9	7213.9	7203.3	7256.3	7245.7	7298.6
147.5°	6980.8	6970.2	6980.8	6959.6	6980.8	6959.6	7023.2	7012.6	7065.6	7097.4	7108.0
150°	6779.6	6737.2	6747.8	6769.0	6747.8	6790.2	6790.2	6832.5	6885.5	6896.1	6938.5
152.5°	6567.7	6557.1	6610.1	6578.3	6599.5	6599.5	6631.3	6641.9	6716.0	6726.6	6832.5
155°	6514.7	6419.4	6419.4	6408.8	6461.8	6461.8	6504.1	6567.7	6599.5	6652.4	6663.0
157.5°	6324.1	6313.5	6313.5	6355.8	6302.9	6366.4	6461.8	6430.0	6514.7	6525.3	6567.7
160°	6249.9	6218.1	6239.3	6260.5	6260.5	6313.5	6387.6	6377.0	6430.0	6493.6	6504.1
162.5°	6292.3	6186.4	6196.9	6249.9	6228.7	6302.9	6313.5	6334.7	6387.6	6408.8	6472.4
165°	6207.5	6175.8	6154.6	6175.8	6239.3	6271.1	6302.9	6324.1	6377.0	6387.6	6419.4
167.5°	6239.3	6228.7	6228.7	6249.9	6292.3	6292.3	6345.2	6334.7	6387.6	6387.6	6408.8
170°	6302.9	6271.1	6292.3	6334.7	6260.5	6377.0	6366.4	6334.7	6419.4	6419.4	6451.2
172.5°	6387.6	6355.8	6366.4	6366.4	6366.4	6430.0	6440.6	6451.2	6461.8	6451.2	6451.2
175°	6525.3	6440.6	6430.0	6430.0	6451.2	6451.2	6472.4	6419.4	6483.0	6483.0	6472.4
177.5°	6493.6	6461.8	6514.7	6461.8	6440.6	6483.0	6514.7	6472.4	6504.1	6472.4	6504.1
180°	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1



TEST NUMBER: P508396

CATALOG NUMBER: ASYX-X-L6-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°	137.7	137.7	137.7	127.1	116.5	116.5	116.5	116.5	105.9	95.3	95.3
95°	1345.3	1069.9	974.6	805.1	678.0	625.0	540.2	540.2	402.5	328.4	349.6
97.5°	3379.2	2627.1	2086.8	1578.4	1504.2	1408.9	1398.3	1186.4	1048.7	953.4	826.3
100°	4385.5	3601.6	3125.0	2860.1	2510.6	2351.7	2235.1	2012.7	1875.0	1684.3	1483.0
102.5°	6514.7	5413.1	4480.9	3697.0	3167.3	2944.9	2796.6	2563.5	2394.0	2203.4	1949.1
105°	8961.7	7415.2	5858.0	4682.1	3972.4	3686.4	3432.2	3199.1	2976.7	2680.0	2447.0
107.5°	9618.5	8495.6	7319.8	6006.3	5021.1	4735.1	4438.5	4046.6	3749.9	3495.7	3093.2
110°	9851.6	8951.1	7934.2	6959.6	6165.2	5963.9	5614.3	5222.4	4925.8	4618.6	4226.6
112.5°	9756.2	9194.8	8379.1	7510.5	6864.3	6663.0	6408.8	6165.2	6006.3	5773.2	5254.2
115°	9724.4	9268.9	8696.9	7923.6	7341.0	7118.5	6917.3	6694.8	6652.4	6493.6	5921.5
117.5°	9586.7	9279.5	8845.2	8220.2	7701.2	7552.9	7351.6	7171.5	7150.3	6991.4	6493.6
120°	9491.4	9237.2	8866.4	8453.3	8008.4	7849.5	7680.0	7542.3	7478.7	7362.2	6885.5
122.5°	9268.9	9173.6	8887.6	8538.0	8135.5	8061.3	7902.4	7669.4	7775.3	7648.2	7192.7
125°	9078.3	9025.3	8951.1	8527.4	8241.4	8146.1	8029.5	7891.8	7923.6	7838.9	7362.2
127.5°	8877.0	8866.4	8813.4	8559.2	8294.4	8252.0	8114.3	8008.4	7987.2	7902.4	7478.7
130°	8718.1	8707.5	8633.4	8463.9	8294.4	8283.8	8146.1	8061.3	8050.7	7976.6	7563.5
132.5°	8485.1	8485.1	8527.4	8357.9	8252.0	8220.2	8156.7	8050.7	8082.5	7923.6	7605.8
135°	8262.6	8273.2	8305.0	8220.2	8283.8	8167.3	8103.7	7966.0	8029.5	7966.0	7648.2
137.5°	8008.4	8040.1	8103.7	8071.9	8103.7	8114.3	8029.5	7997.8	7997.8	7934.2	7637.6
140°	7701.2	7828.3	7944.8	7934.2	7997.8	7987.2	7955.4	7807.1	7944.8	7902.4	7648.2
142.5°	7563.5	7637.6	7775.3	7743.5	7881.2	7881.2	7860.1	7849.5	7881.2	7807.1	7605.8
145°	7330.4	7446.9	7552.9	7616.4	7701.2	7785.9	7754.1	7775.3	7785.9	7785.9	7542.3
147.5°	7182.1	7309.2	7446.9	7468.1	7616.4	7637.6	7648.2	7680.0	7743.5	7658.8	7563.5
150°	7023.2	7108.0	7266.8	7330.4	7489.3	7521.1	7510.5	7552.9	7658.8	7595.2	7446.9
152.5°	6779.6	6959.6	7097.4	7192.7	7309.2	7383.4	7394.0	7394.0	7489.3	7489.3	7404.6
155°	6737.2	6832.5	6959.6	7055.0	7182.1	7256.3	7266.8	7266.8	7362.2	7330.4	7309.2
157.5°	6641.9	6769.0	6874.9	6906.7	7065.6	7129.1	7129.1	7150.3	7235.1	7256.3	7182.1
160°	6578.3	6641.9	6769.0	6864.3	6949.1	7023.2	7033.8	7055.0	7108.0	7097.4	7065.6
162.5°	6483.0	6578.3	6694.8	6747.8	6843.1	6917.3	6906.7	6906.7	7002.0	7023.2	6980.8
165°	6430.0	6535.9	6673.6	6705.4	6769.0	6811.3	6800.8	6832.5	6917.3	6896.1	6874.9
167.5°	6451.2	6504.1	6620.7	6610.1	6684.2	6716.0	6716.0	6694.8	6747.8	6673.6	6737.2
170°	6483.0	6483.0	6546.5	6567.7	6631.3	6663.0	6631.3	6631.3	6663.0	6684.2	6694.8
172.5°	6493.6	6483.0	6535.9	6525.3	6546.5	6599.5	6567.7	6525.3	6588.9	6631.3	6578.3
175°	6461.8	6472.4	6557.1	6535.9	6504.1	6557.1	6504.1	6493.6	6588.9	6578.3	6557.1
177.5°	6430.0	6430.0	6483.0	6440.6	6514.7	6514.7	6461.8	6461.8	6567.7	6493.6	6472.4
180°	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1



TEST NUMBER: P508396

CATALOG NUMBER: ASYX-X-L6-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°	105.9	116.5	127.1	148.3	158.9	169.5	190.7	211.9	243.6	243.6	286.0
95°	339.0	349.6	349.6	370.8	381.4	381.4	391.9	434.3	476.7	529.7	625.0
97.5°	720.3	635.6	614.4	614.4	625.0	625.0	635.6	656.8	688.5	752.1	847.4
100°	1271.2	1080.5	942.8	868.6	847.4	836.9	847.4	847.4	900.4	985.2	1091.1
102.5°	1663.1	1408.9	1175.8	1069.9	1027.5	1038.1	1027.5	1048.7	1122.9	1197.0	1313.5
105°	2097.4	1769.0	1472.4	1313.5	1250.0	1239.4	1239.4	1260.6	1345.3	1440.7	1525.4
107.5°	2690.6	2277.5	1843.2	1610.1	1514.8	1493.6	1493.6	1525.4	1578.4	1641.9	1737.3
110°	3644.0	2966.1	2362.3	1991.5	1864.4	1790.2	1747.9	1779.6	1811.4	1864.4	1938.5
112.5°	4533.8	3697.0	2902.5	2341.1	2171.6	2055.1	1991.5	1991.5	2033.9	2076.2	2129.2
115°	5148.2	4216.0	3358.0	2701.2	2457.6	2351.7	2214.0	2224.5	2256.3	2298.7	2330.5
117.5°	5699.1	4703.3	3739.4	3040.2	2764.8	2595.3	2457.6	2425.8	2489.4	2542.3	2563.5
120°	6091.0	5127.0	4120.7	3389.8	3072.0	2881.3	2690.6	2658.9	2722.4	2733.0	2838.9
122.5°	6419.4	5434.2	4449.1	3697.0	3358.0	3199.1	2966.1	2923.7	2966.1	3040.2	3125.0
125°	6631.3	5709.7	4745.7	3983.0	3665.2	3453.3	3209.7	3177.9	3209.7	3262.7	3358.0
127.5°	6800.8	5932.1	5031.7	4279.6	3908.8	3739.4	3495.7	3432.2	3474.5	3495.7	3601.6
130°	6927.9	6186.4	5296.5	4565.6	4237.2	4067.7	3739.4	3675.8	3697.0	3749.9	3802.9
132.5°	7055.0	6345.2	5561.4	4862.2	4544.4	4353.8	4036.0	3898.3	3908.8	3951.2	4004.2
135°	7139.7	6514.7	5836.8	5158.8	4809.3	4661.0	4322.0	4184.3	4131.3	4120.7	4184.3
137.5°	7224.5	6673.6	6048.6	5434.2	5137.6	4968.2	4565.6	4406.7	4353.8	4343.2	4364.3
140°	7298.6	6811.3	6239.3	5730.9	5434.2	5233.0	4862.2	4661.0	4576.2	4533.8	4555.0
142.5°	7330.4	6927.9	6440.6	6048.6	5688.5	5455.4	5148.2	4947.0	4766.9	4713.9	4671.5
145°	7351.6	7108.0	6631.3	6249.9	5974.5	5836.8	5466.0	5201.2	4989.3	4883.4	4862.2
147.5°	7351.6	7097.4	6758.4	6419.4	6186.4	6038.1	5635.5	5466.0	5296.5	5116.5	5031.7
150°	7330.4	7213.9	6853.7	6588.9	6345.2	6228.7	5942.7	5624.9	5444.8	5317.7	5222.4
152.5°	7277.4	7118.5	6906.7	6673.6	6493.6	6419.4	6091.0	5889.7	5699.1	5508.4	5434.2
155°	7224.5	7097.4	6938.5	6747.8	6599.5	6504.1	6271.1	6069.8	5932.1	5730.9	5656.7
157.5°	7160.9	7076.2	6938.5	6832.5	6663.0	6599.5	6366.4	6228.7	6112.2	5910.9	5815.6
160°	7065.6	7012.6	6927.9	6779.6	6705.4	6652.4	6461.8	6355.8	6239.3	6091.0	6016.9
162.5°	6970.2	6980.8	6874.9	6843.1	6726.6	6684.2	6557.1	6440.6	6324.1	6239.3	6175.8
165°	6896.1	6938.5	6832.5	6726.6	6726.6	6705.4	6567.7	6514.7	6461.8	6366.4	6292.3
167.5°	6758.4	6811.3	6811.3	6684.2	6673.6	6705.4	6620.7	6567.7	6525.3	6451.2	6408.8
170°	6737.2	6737.2	6663.0	6673.6	6705.4	6631.3	6578.3	6567.7	6567.7	6525.3	6493.6
172.5°	6610.1	6673.6	6641.9	6620.7	6588.9	6588.9	6557.1	6567.7	6546.5	6557.1	6546.5
175°	6567.7	6578.3	6588.9	6578.3	6546.5	6546.5	6535.9	6546.5	6557.1	6557.1	6535.9
177.5°	6504.1	6535.9	6588.9	6535.9	6557.1	6514.7	6504.1	6525.3	6525.3	6535.9	6514.7
180°	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1



TEST NUMBER: P508396

CATALOG NUMBER: ASYX-X-L6-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°	317.8	339.0	349.6	360.2	370.8	339.0	339.0	307.2	286.0
95°	678.0	730.9	730.9	730.9	762.7	783.9	773.3	762.7	762.7
97.5°	921.6	1006.3	1069.9	1080.5	1080.5	1080.5	1091.1	1091.1	1069.9
100°	1165.2	1207.6	1250.0	1260.6	1250.0	1250.0	1239.4	1260.6	1250.0
102.5°	1398.3	1440.7	1451.3	1461.8	1451.3	1440.7	1419.5	1440.7	1398.3
105°	1599.6	1641.9	1631.3	1620.7	1610.1	1589.0	1567.8	1599.6	1589.0
107.5°	1822.0	1832.6	1843.2	1853.8	1811.4	1800.8	1800.8	1822.0	1811.4
110°	2002.1	2044.5	2033.9	2023.3	2023.3	2002.1	1991.5	2002.1	1991.5
112.5°	2192.8	2214.0	2203.4	2203.4	2192.8	2161.0	2129.2	2139.8	2129.2
115°	2394.0	2404.6	2394.0	2372.8	2351.7	2330.5	2288.1	2266.9	2256.3
117.5°	2605.9	2595.3	2574.1	2563.5	2542.3	2531.7	2468.2	2436.4	2425.8
120°	2849.5	2817.8	2775.4	2764.8	2733.0	2722.4	2637.7	2584.7	2574.1
122.5°	3146.1	3093.2	3008.4	2966.1	2955.5	2923.7	2817.8	2796.6	2764.8
125°	3400.4	3379.2	3326.2	3294.4	3252.1	3156.7	3040.2	2987.2	3008.4
127.5°	3644.0	3633.4	3612.2	3569.9	3516.9	3474.5	3379.2	3294.4	3273.3
130°	3845.3	3855.9	3824.1	3792.3	3760.5	3718.2	3612.2	3559.3	3559.3
132.5°	4036.0	4046.6	4067.7	3983.0	3961.8	3919.4	3824.1	3760.5	3781.7
135°	4184.3	4205.4	4173.7	4141.9	4120.7	4078.3	3983.0	3951.2	3961.8
137.5°	4385.5	4364.3	4332.6	4311.4	4258.4	4247.8	4173.7	4120.7	4099.5
140°	4512.6	4523.2	4523.2	4470.3	4417.3	4396.1	4322.0	4269.0	4279.6
142.5°	4682.1	4639.8	4661.0	4608.0	4576.2	4544.4	4449.1	4438.5	4438.5
145°	4809.3	4788.1	4777.5	4735.1	4724.5	4661.0	4629.2	4576.2	4608.0
147.5°	4947.0	4947.0	4947.0	4851.6	4830.4	4798.7	4766.9	4724.5	4756.3
150°	5148.2	5074.1	5052.9	4999.9	4957.6	4936.4	4862.2	4841.0	4872.8
152.5°	5307.1	5222.4	5158.8	5127.0	5116.5	5084.7	5042.3	5010.5	5010.5
155°	5497.8	5381.3	5381.3	5264.8	5233.0	5211.8	5169.4	5158.8	5169.4
157.5°	5699.1	5593.1	5540.2	5476.6	5423.7	5402.5	5349.5	5328.3	5349.5
160°	5847.4	5836.8	5720.3	5688.5	5635.5	5603.7	5593.1	5540.2	5540.2
162.5°	6080.4	5932.1	5910.9	5879.2	5836.8	5794.4	5773.2	5752.0	5773.2
165°	6207.5	6165.2	6112.2	6069.8	6038.1	6027.5	5963.9	5985.1	5974.5
167.5°	6355.8	6324.1	6271.1	6239.3	6249.9	6207.5	6207.5	6154.6	6165.2
170°	6461.8	6483.0	6419.4	6387.6	6366.4	6366.4	6324.1	6324.1	6345.2
172.5°	6535.9	6567.7	6514.7	6493.6	6472.4	6493.6	6451.2	6440.6	6461.8
175°	6557.1	6599.5	6557.1	6546.5	6525.3	6588.9	6514.7	6514.7	6472.4
177.5°	6535.9	6546.5	6588.9	6525.3	6525.3	6546.5	6557.1	6472.4	6525.3
180°	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1

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