

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: P508391

Luminaire Tested: **ASYX-X-L5-X-U-W-L27-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508391
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-L5-X-U-W-L27-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(5) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

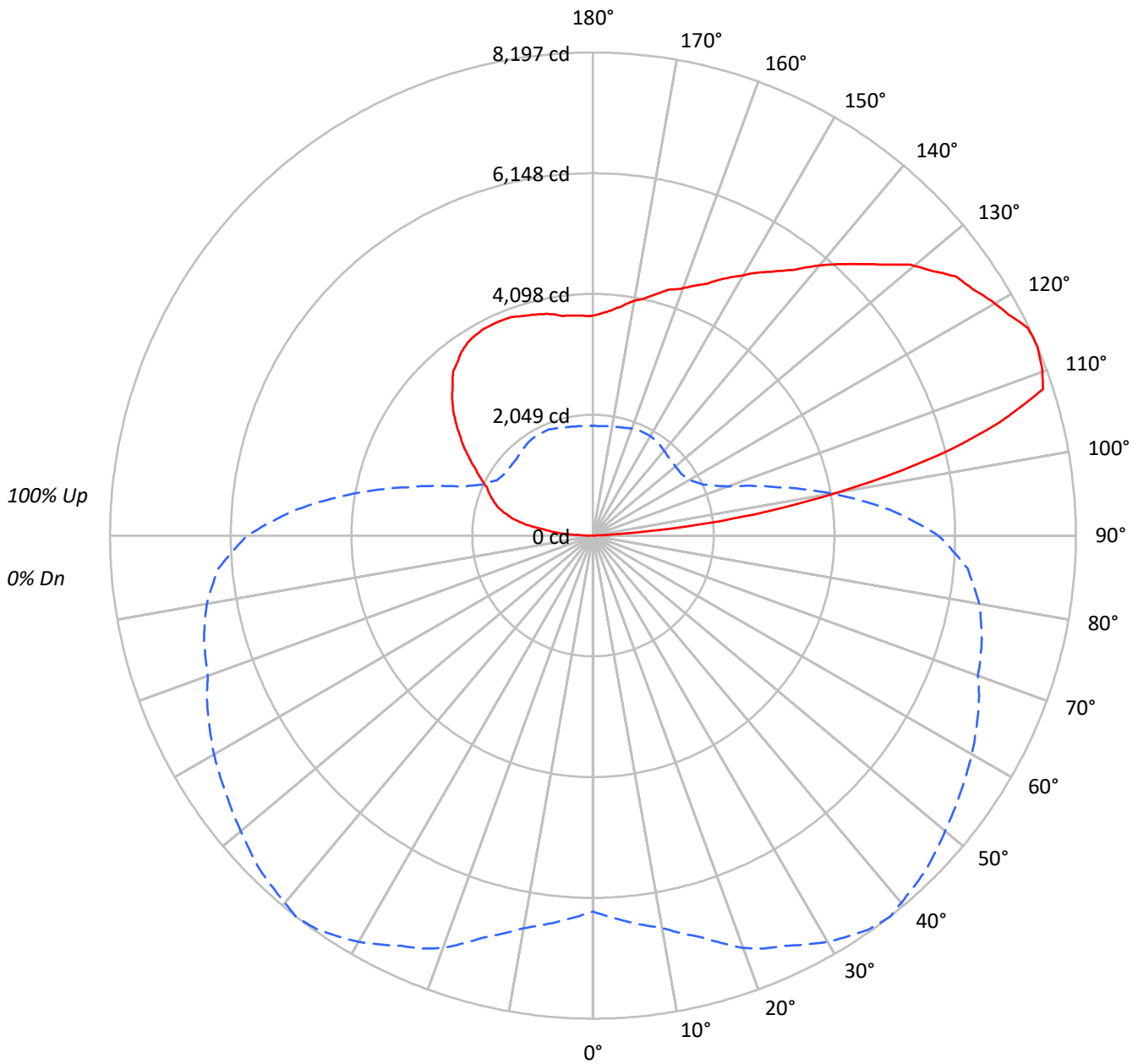
Lumens per Lamp: N/A
Luminaire Lumens: 24643.1 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
N/A
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
CIE Type: Indirect

Input Watts (W): 270.1
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: P508391
CATALOG NUMBER: ASYX-X-L5-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									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°	38137	42452	53962
100°	104002	80529	49114
105°	104182	86011	45065
110°	116059	105791	37953
115°	122414	106093	31604
120°	114756	93435	29348
125°	100255	79919	29190
130°	86240	66339	30243
135°	73163	56934	30773
140°	61395	48461	31762
145°	51902	42640	31846
150°	44170	37798	31933
155°	38678	33834	31067
160°	34835	30831	30230
165°	31941	29019	28955
170°	29673	27635	27763
175°	27760	26942	26816



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CATALOG NUMBER: ASYX-X-L5-X-U-W-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°	1008.6	4.1
100°-110°	3650.9	14.8
110°-120°	4921.4	20.0
120°-130°	4684.1	19.0
130°-140°	3902.7	15.8
140°-150°	2956.5	12.0
150°-160°	2012.0	8.2
160°-170°	1143.2	4.6
170°-180°	363.7	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°	9580.9	38.9
90°-150°	21124.2	85.7
90°-180°	24643.0	100.0
0°-180°	24643.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	463	1512	516	516	655	824
105°	3758	7673	3102	1372	1625	4076
115°	7209	7847	6248	1984	1861	6951
125°	8013	7174	6388	2665	2333	7152
135°	7209	6178	5610	3382	3032	5586
145°	5925	5269	4868	3845	3635	3748
155°	4885	4632	4273	3985	3924	2282
165°	4299	4168	3906	3880	3898	1227
175°	3854	3801	3740	3731	3723	375
180°	3723	3723	3723	3723	3723	



TEST NUMBER: P508391

CATALOG NUMBER: ASYX-X-L5-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°	69.9	69.9	69.9	78.6	87.4	96.1	96.1	122.3	157.3	166.0	192.3
95°	463.2	533.1	795.2	917.6	926.3	952.5	952.5	1205.9	1503.1	1573.0	1642.9
97.5°	1240.9	1328.3	1607.9	1826.4	2141.0	2228.4	2333.2	2543.0	2866.3	3058.5	3154.7
100°	2516.7	2534.2	2682.8	2883.8	3224.6	3416.8	3652.8	4229.5	4517.9	4517.9	4413.0
102.5°	3189.6	3207.1	3338.2	3530.4	3932.4	4220.8	4491.7	5190.8	5776.3	5994.7	6082.1
105°	3757.6	3818.8	3958.6	4229.5	4718.9	5042.2	5295.6	6090.9	6772.5	7148.2	7436.6
107.5°	4482.9	4579.1	4815.0	5129.6	5715.1	6090.9	6414.2	7060.9	7655.1	8030.9	8022.1
110°	5531.6	5584.0	5828.7	6239.4	6746.3	7043.4	7244.4	7698.8	8100.8	8135.7	8153.2
112.5°	6379.2	6571.5	6763.7	7052.1	7445.4	7585.2	7681.3	7960.9	8161.9	8196.9	8135.7
115°	7209.4	7279.3	7375.5	7567.7	7751.2	7891.0	7908.5	8057.1	8100.8	8179.4	8039.6
117.5°	7725.0	7760.0	7768.7	7838.6	7934.7	8013.4	7995.9	8039.6	8092.0	7987.2	7917.3
120°	7995.9	8030.9	7969.7	7995.9	8022.1	8039.6	8004.6	8022.1	7926.0	7847.3	7768.7
122.5°	8100.8	8092.0	8030.9	8030.9	7995.9	7987.2	7917.3	7856.1	7786.2	7681.3	7585.2
125°	8013.4	8048.3	7969.7	7908.5	7829.9	7960.9	7786.2	7725.0	7602.7	7567.7	7384.2
127.5°	7899.8	7969.7	7838.6	7777.4	7698.8	7672.6	7567.7	7480.3	7392.9	7296.8	7174.5
130°	7725.0	7751.2	7628.9	7567.7	7489.1	7410.4	7392.9	7200.7	7139.5	7078.3	6912.3
132.5°	7550.2	7506.5	7384.2	7305.5	7209.4	7165.7	7122.0	6956.0	6868.6	6737.5	6650.1
135°	7209.4	7218.2	7104.6	7017.2	6886.1	6886.1	6807.4	6685.1	6571.5	6457.9	6344.3
137.5°	6886.1	6947.3	6781.2	6702.6	6632.7	6580.2	6475.4	6361.8	6239.4	6195.7	6108.3
140°	6554.0	6562.8	6431.7	6361.8	6309.3	6213.2	6152.0	6047.2	6003.5	5924.8	5802.5
142.5°	6265.6	6230.7	6125.8	6047.2	5994.7	5924.8	5889.9	5785.0	5715.1	5645.2	5601.5
145°	5924.8	5916.1	5793.8	5741.3	5697.6	5671.4	5610.2	5531.6	5496.6	5435.5	5435.5
147.5°	5636.5	5592.8	5522.9	5461.7	5409.2	5383.0	5383.0	5243.2	5269.4	5260.7	5182.0
150°	5330.6	5321.9	5225.7	5199.5	5155.8	5173.3	5155.8	5094.7	5094.7	5059.7	5007.3
152.5°	5085.9	5085.9	5007.3	4989.8	4972.3	4963.6	4928.6	4902.4	4902.4	4893.7	4832.5
155°	4884.9	4884.9	4823.8	4815.0	4788.8	4780.1	4762.6	4736.4	4718.9	4701.4	4649.0
157.5°	4718.9	4710.2	4640.2	4649.0	4622.8	4622.8	4614.0	4561.6	4579.1	4570.3	4535.4
160°	4561.6	4552.9	4482.9	4509.2	4491.7	4491.7	4491.7	4456.7	4439.3	4439.3	4360.6
162.5°	4421.8	4439.3	4369.3	4360.6	4369.3	4369.3	4334.4	4308.2	4334.4	4360.6	4282.0
165°	4299.4	4282.0	4255.7	4247.0	4229.5	4212.0	4229.5	4212.0	4194.6	4229.5	4203.3
167.5°	4177.1	4194.6	4142.1	4124.7	4124.7	4159.6	4133.4	4098.4	4115.9	4107.2	4054.8
170°	4072.2	4089.7	4019.8	4019.8	4019.8	4019.8	3993.6	3967.4	4011.1	4028.5	3967.4
172.5°	3967.4	3993.6	3932.4	3923.7	3914.9	3932.4	3914.9	3888.7	3941.1	3914.9	3888.7
175°	3853.8	3897.5	3836.3	3827.5	3845.0	3845.0	3827.5	3810.1	3845.0	3827.5	3810.1
177.5°	3801.3	3801.3	3740.2	3748.9	3748.9	3740.2	3766.4	3757.6	3766.4	3766.4	3801.3
180°	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7



TEST NUMBER: P508391

CATALOG NUMBER: ASYX-X-L5-X-U-W-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°	201.0	235.9	253.4	139.8	139.8	157.3	148.6	131.1	113.6	104.9	104.9
95°	1511.8	1433.1	1476.8	1328.3	1153.5	1013.7	1004.9	1013.7	699.1	524.3	515.6
97.5°	3250.8	3215.8	2944.9	2525.5	2403.1	2411.9	2263.3	1878.8	1573.0	1345.8	1162.2
100°	4229.5	4115.9	3993.6	4081.0	3836.3	3644.0	3373.1	3032.3	2674.0	2368.2	1948.7
102.5°	6029.7	5854.9	5409.2	4919.9	4430.5	4255.7	4054.8	3670.2	3294.5	2936.2	2508.0
105°	7672.6	7375.5	6623.9	5924.8	5260.7	5059.7	4797.5	4369.3	3932.4	3574.1	3102.2
107.5°	8065.8	7847.3	7427.9	6956.0	6379.2	6047.2	5802.5	5339.3	4928.6	4439.3	3897.5
110°	8100.8	7882.3	7620.1	7296.8	7017.2	6824.9	6667.6	6318.1	6021.0	5592.8	5042.2
112.5°	8004.6	7803.7	7611.4	7427.9	7209.4	7095.8	6956.0	6833.7	6658.9	6379.2	5863.7
115°	7847.3	7672.6	7497.8	7340.5	7235.6	7183.2	7113.3	7017.2	6921.0	6711.3	6248.2
117.5°	7698.8	7497.8	7340.5	7288.1	7191.9	7113.3	7104.6	7087.1	7025.9	6921.0	6475.4
120°	7550.2	7392.9	7235.6	7122.0	7087.1	7078.3	7078.3	7025.9	7043.4	6956.0	6510.3
122.5°	7314.3	7191.9	7060.9	7008.4	6859.9	6894.8	6912.3	6877.3	6947.3	6886.1	6466.6
125°	7174.5	7052.1	6886.1	6807.4	6781.2	6746.3	6781.2	6720.1	6755.0	6711.3	6388.0
127.5°	6938.5	6781.2	6693.8	6632.7	6615.2	6492.8	6554.0	6562.8	6571.5	6501.6	6213.2
130°	6685.1	6597.7	6396.7	6422.9	6422.9	6379.2	6388.0	6353.0	6335.6	6274.4	5942.3
132.5°	6501.6	6388.0	6256.9	6221.9	6187.0	6178.3	6178.3	6117.1	6117.1	6038.4	5820.0
135°	6178.3	6099.6	6047.2	6012.2	6003.5	5968.5	5968.5	5907.4	5898.6	5828.7	5610.2
137.5°	5951.0	5872.4	5828.7	5802.5	5776.3	5715.1	5750.1	5697.6	5645.2	5627.7	5418.0
140°	5723.8	5662.7	5627.7	5584.0	5575.3	5540.3	5540.3	5479.2	5461.7	5383.0	5173.3
142.5°	5531.6	5496.6	5426.7	5409.2	5348.1	5356.8	5313.1	5321.9	5252.0	5164.6	4998.5
145°	5269.4	5278.2	5243.2	5208.3	5199.5	5147.1	5155.8	5103.4	5059.7	4998.5	4867.5
147.5°	5129.6	5129.6	5077.2	5033.5	4998.5	4989.8	4946.1	4954.8	4884.9	4797.5	4710.2
150°	4946.1	4928.6	4876.2	4850.0	4823.8	4823.8	4780.1	4753.8	4701.4	4675.2	4561.6
152.5°	4815.0	4771.3	4745.1	4692.7	4692.7	4649.0	4614.0	4596.6	4552.9	4500.4	4413.0
155°	4631.5	4614.0	4579.1	4570.3	4535.4	4500.4	4439.3	4430.5	4404.3	4351.9	4273.2
157.5°	4482.9	4509.2	4456.7	4430.5	4378.1	4369.3	4308.2	4316.9	4264.5	4229.5	4159.6
160°	4413.0	4369.3	4316.9	4308.2	4290.7	4220.8	4212.0	4185.8	4150.9	4124.7	4037.3
162.5°	4255.7	4247.0	4220.8	4203.3	4142.1	4142.1	4037.3	4081.0	4054.8	4028.5	3984.8
165°	4168.4	4177.1	4115.9	4098.4	4081.0	4046.0	4019.8	3993.6	3967.4	3949.9	3906.2
167.5°	4054.8	4037.3	4019.8	3984.8	3993.6	3967.4	3941.1	3923.7	3906.2	3888.7	3853.8
170°	3958.6	3949.9	3932.4	3906.2	3914.9	3888.7	3888.7	3853.8	3845.0	3836.3	3792.6
172.5°	3880.0	3880.0	3862.5	3862.5	3853.8	3827.5	3810.1	3792.6	3792.6	3775.1	3766.4
175°	3801.3	3810.1	3801.3	3792.6	3792.6	3775.1	3775.1	3783.9	3766.4	3766.4	3740.2
177.5°	3740.2	3740.2	3740.2	3740.2	3740.2	3740.2	3740.2	3731.4	3740.2	3731.4	3705.2
180°	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7



TEST NUMBER: P508391

CATALOG NUMBER: ASYX-X-L5-X-U-W-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°	113.6	122.3	131.1	139.8	166.0	157.3	183.5	192.3	209.7	244.7	253.4
95°	463.2	463.2	454.4	454.4	436.9	436.9	428.2	419.5	463.2	515.6	585.5
97.5°	952.5	812.7	742.8	716.6	707.8	699.1	681.6	655.4	672.9	716.6	804.0
100°	1607.9	1328.3	1101.1	970.0	943.8	900.1	882.6	873.9	873.9	961.3	1101.1
102.5°	2079.8	1669.1	1372.0	1179.7	1127.3	1083.6	1057.4	1057.4	1074.9	1179.7	1337.0
105°	2630.3	2106.0	1651.6	1398.2	1354.5	1293.3	1249.6	1258.4	1275.8	1372.0	1511.8
107.5°	3294.5	2665.3	2123.5	1730.3	1634.1	1546.7	1476.8	1476.8	1485.6	1546.7	1651.6
110°	4290.7	3478.0	2665.3	2079.8	1922.5	1826.4	1660.4	1660.4	1651.6	1695.3	1765.2
112.5°	5051.0	4107.2	3180.9	2429.4	2210.9	2053.6	1878.8	1826.4	1826.4	1835.1	1878.8
115°	5505.4	4526.6	3539.2	2752.7	2464.3	2272.1	2053.6	1992.4	1966.2	1983.7	1966.2
117.5°	5767.5	4780.1	3845.0	2988.6	2717.7	2499.3	2228.4	2149.7	2106.0	2141.0	2132.2
120°	5898.6	5007.3	4089.7	3233.3	2953.7	2700.3	2411.9	2333.2	2298.3	2298.3	2307.0
122.5°	5916.1	5129.6	4229.5	3451.8	3172.1	2927.5	2630.3	2516.7	2481.8	2490.5	2490.5
125°	5854.9	5112.1	4360.6	3626.6	3355.7	3111.0	2805.1	2709.0	2630.3	2665.3	2674.0
127.5°	5758.8	5068.4	4439.3	3766.4	3521.7	3303.2	3023.6	2910.0	2840.1	2857.6	2848.8
130°	5619.0	5016.0	4509.2	3888.7	3679.0	3460.5	3215.8	3111.0	3014.8	3023.6	3032.3
132.5°	5479.2	4998.5	4544.1	3984.8	3810.1	3626.6	3381.9	3277.0	3189.6	3198.4	3198.4
135°	5330.6	4954.8	4500.4	4046.0	3958.6	3766.4	3565.4	3451.8	3381.9	3381.9	3364.4
137.5°	5173.3	4850.0	4535.4	4168.4	4046.0	3888.7	3687.7	3600.3	3530.4	3521.7	3513.0
140°	5033.5	4736.4	4491.7	4194.6	4107.2	3984.8	3818.8	3748.9	3652.8	3635.3	3687.7
142.5°	4893.7	4683.9	4535.4	4255.7	4168.4	4063.5	3941.1	3845.0	3775.1	3757.6	3748.9
145°	4753.8	4631.5	4465.5	4238.3	4203.3	4098.4	3967.4	3941.1	3862.5	3845.0	3845.0
147.5°	4614.0	4509.2	4386.8	4229.5	4229.5	4142.1	4081.0	4002.3	3941.1	3906.2	3906.2
150°	4491.7	4404.3	4343.1	4220.8	4212.0	4142.1	4089.7	4054.8	3984.8	3967.4	3958.6
152.5°	4378.1	4299.4	4247.0	4168.4	4159.6	4063.5	4081.0	4046.0	3976.1	3958.6	3958.6
155°	4238.3	4229.5	4168.4	4089.7	4124.7	4072.2	4028.5	4072.2	3967.4	3984.8	3984.8
157.5°	4142.1	4133.4	4124.7	4046.0	4054.8	4028.5	4002.3	4037.3	3949.9	3958.6	3958.6
160°	4037.3	4019.8	4019.8	3949.9	4002.3	3949.9	3958.6	3976.1	3923.7	3932.4	3958.6
162.5°	3984.8	3949.9	3949.9	3923.7	3941.1	3923.7	3880.0	3941.1	3932.4	3914.9	3923.7
165°	3897.5	3888.7	3906.2	3853.8	3897.5	3845.0	3862.5	3888.7	3871.2	3880.0	3888.7
167.5°	3845.0	3836.3	3845.0	3818.8	3845.0	3827.5	3818.8	3853.8	3836.3	3845.0	3853.8
170°	3801.3	3801.3	3810.1	3783.9	3810.1	3783.9	3810.1	3810.1	3801.3	3801.3	3818.8
172.5°	3783.9	3757.6	3783.9	3740.2	3783.9	3731.4	3748.9	3775.1	3766.4	3757.6	3757.6
175°	3748.9	3740.2	3766.4	3722.7	3748.9	3722.7	3722.7	3748.9	3740.2	3731.4	3766.4
177.5°	3748.9	3722.7	3748.9	3705.2	3731.4	3713.9	3713.9	3740.2	3722.7	3722.7	3748.9
180°	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7



TEST NUMBER: P508391

CATALOG NUMBER: ASYX-X-L5-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°	253.4	297.1	305.9	332.1	323.3	270.9	235.9	192.3	166.0
95°	664.1	734.0	804.0	795.2	821.4	769.0	716.6	690.4	655.4
97.5°	891.3	1004.9	1074.9	1074.9	1083.6	1048.6	1031.2	1048.6	1004.9
100°	1258.4	1337.0	1363.2	1354.5	1328.3	1267.1	1232.2	1214.7	1188.5
102.5°	1476.8	1564.2	1590.4	1573.0	1555.5	1529.3	1494.3	1476.8	1468.1
105°	1625.4	1704.0	1739.0	1730.3	1721.5	1677.8	1607.9	1634.1	1625.4
107.5°	1765.2	1817.6	1852.6	1826.4	1817.6	1791.4	1747.7	1774.0	1739.0
110°	1852.6	1896.3	1905.0	1905.0	1887.6	1861.3	1826.4	1835.1	1808.9
112.5°	1922.5	1948.7	1948.7	1948.7	1931.3	1896.3	1878.8	1861.3	1861.3
115°	2001.2	1983.7	1992.4	1992.4	1974.9	1922.5	1896.3	1878.8	1861.3
117.5°	2141.0	2114.8	2088.5	2088.5	2044.9	2009.9	1983.7	1957.5	1931.3
120°	2272.1	2254.6	2237.1	2210.9	2184.7	2141.0	2097.3	2062.3	2044.9
122.5°	2446.8	2403.1	2376.9	2394.4	2342.0	2298.3	2245.8	2210.9	2167.2
125°	2639.1	2604.1	2560.4	2543.0	2499.3	2464.3	2420.6	2385.7	2333.2
127.5°	2805.1	2752.7	2735.2	2726.5	2674.0	2630.3	2560.4	2534.2	2534.2
130°	2997.4	2936.2	2944.9	2901.2	2857.6	2787.6	2717.7	2717.7	2709.0
132.5°	3180.9	3111.0	3102.2	3084.8	3032.3	2979.9	2936.2	2927.5	2892.5
135°	3329.4	3277.0	3268.3	3250.8	3207.1	3154.7	3084.8	3102.2	3032.3
137.5°	3460.5	3434.3	3425.6	3390.6	3346.9	3338.2	3259.5	3250.8	3207.1
140°	3609.1	3556.6	3591.6	3547.9	3495.5	3478.0	3373.1	3390.6	3390.6
142.5°	3713.9	3687.7	3679.0	3661.5	3626.6	3591.6	3565.4	3530.4	3547.9
145°	3818.8	3801.3	3783.9	3783.9	3731.4	3713.9	3661.5	3661.5	3635.3
147.5°	3906.2	3871.2	3871.2	3853.8	3827.5	3810.1	3757.6	3783.9	3740.2
150°	3906.2	3923.7	3906.2	3906.2	3914.9	3906.2	3862.5	3845.0	3853.8
152.5°	3976.1	3949.9	3932.4	3967.4	3923.7	3949.9	3888.7	3906.2	3888.7
155°	3941.1	3958.6	3967.4	3949.9	3949.9	3949.9	3923.7	3967.4	3923.7
157.5°	3976.1	3958.6	3967.4	3958.6	3941.1	3967.4	3941.1	3976.1	3949.9
160°	3958.6	3941.1	3958.6	3949.9	3932.4	3967.4	3967.4	3993.6	3958.6
162.5°	3897.5	3914.9	3958.6	3932.4	3932.4	3993.6	3897.5	3984.8	3932.4
165°	3880.0	3888.7	3906.2	3923.7	3888.7	3914.9	3914.9	3923.7	3897.5
167.5°	3862.5	3827.5	3862.5	3862.5	3871.2	3871.2	3871.2	3888.7	3853.8
170°	3827.5	3757.6	3827.5	3827.5	3810.1	3810.1	3801.3	3853.8	3810.1
172.5°	3766.4	3748.9	3775.1	3775.1	3792.6	3783.9	3783.9	3792.6	3766.4
175°	3731.4	3740.2	3775.1	3748.9	3740.2	3748.9	3722.7	3748.9	3722.7
177.5°	3713.9	3713.9	3722.7	3731.4	3748.9	3731.4	3705.2	3731.4	3705.2
180°	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7

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