

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: P508473

Luminaire Tested: **ASYX-X-S4-X-U-W-L35-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508473
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-S4-X-U-W-L35-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(4) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

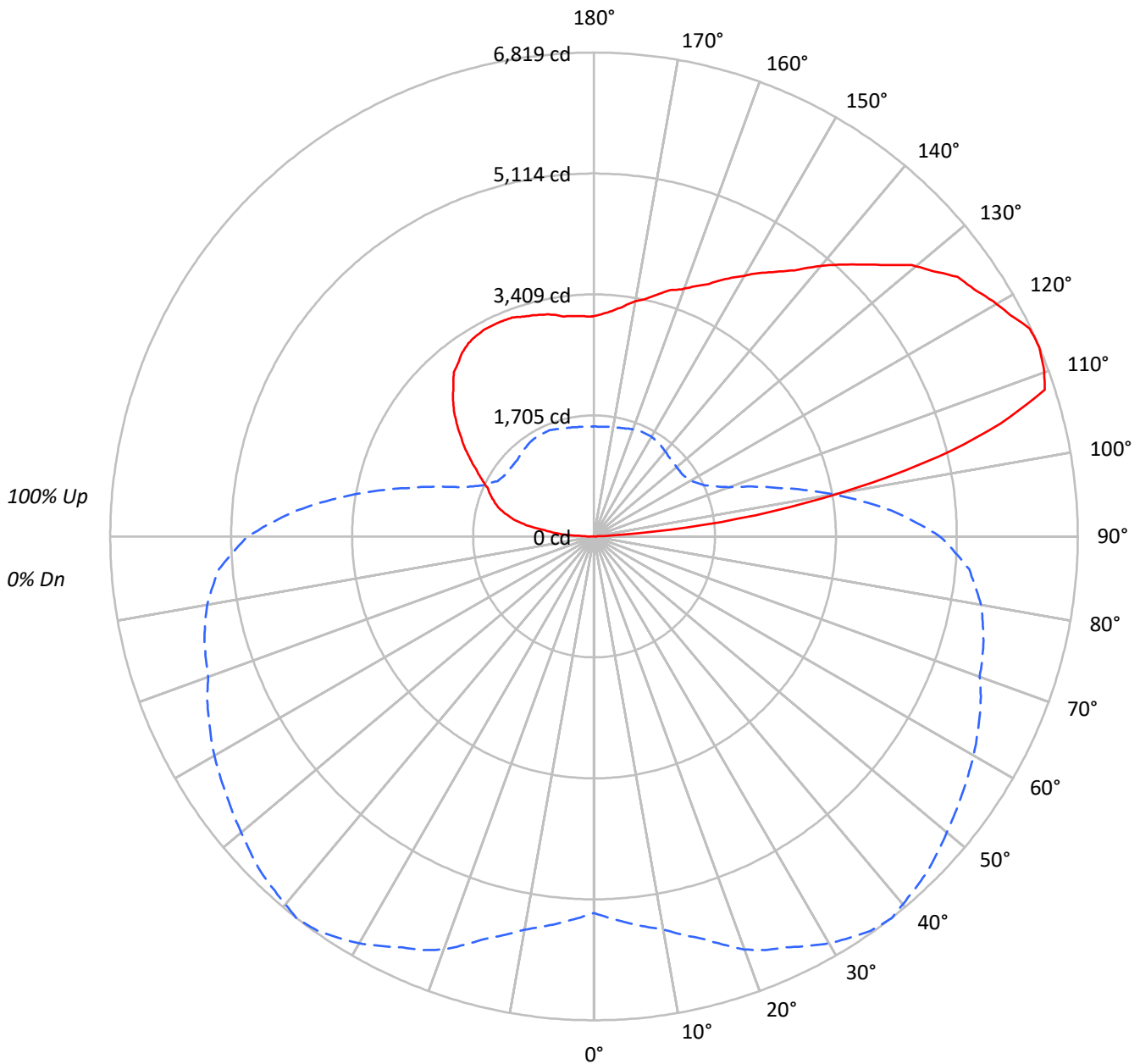
Lumens per Lamp: N/A
Luminaire Lumens: 20500.5 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
N/A
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
CIE Type: Indirect

Input Watts (W): 215.1
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: P508473
CATALOG NUMBER: ASYX-X-S4-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°	47585	52970	67333
100°	129782	100487	61286
105°	130006	107328	56236
110°	144823	132011	47358
115°	152754	132386	39437
120°	143197	116593	36621
125°	125102	99726	36425
130°	107614	82781	37738
135°	91297	71045	38400
140°	76610	60471	39633
145°	64766	53208	39739
150°	55117	47166	39846
155°	48263	42220	38767
160°	43468	38472	37723
165°	39857	36211	36131
170°	37027	34484	34644
175°	34640	33619	33462



TEST NUMBER: P508473

CATALOG NUMBER: ASYX-X-S4-X-U-W-L35-1-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°	839.1	4.1
100°-110°	3037.1	14.8
110°-120°	4094.1	20.0
120°-130°	3896.7	19.0
130°-140°	3246.6	15.8
140°-150°	2459.5	12.0
150°-160°	1673.8	8.2
160°-170°	951.0	4.6
170°-180°	302.5	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°	7970.3	38.9
90°-150°	17573.1	85.7
90°-180°	20500.0	100.0
0°-180°	20500.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	385	1258	429	429	545	685
105°	3126	6383	2581	1141	1352	3391
115°	5998	6528	5198	1650	1548	5783
125°	6666	5968	5314	2217	1941	5950
135°	5998	5140	4667	2813	2523	4647
145°	4929	4384	4049	3199	3024	3118
155°	4064	3853	3555	3315	3264	1899
165°	3577	3468	3250	3228	3242	1021
175°	3206	3162	3111	3104	3097	312
180°	3097	3097	3097	3097	3097	



TEST NUMBER: P508473

CATALOG NUMBER: ASYX-X-S4-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°	58.2	58.2	58.2	65.4	72.7	80.0	80.0	101.8	130.9	138.1	159.9
95°	385.3	443.4	661.5	763.3	770.6	792.4	792.4	1003.2	1250.4	1308.5	1366.7
97.5°	1032.3	1105.0	1337.6	1519.4	1781.1	1853.8	1941.0	2115.5	2384.4	2544.4	2624.3
100°	2093.7	2108.2	2231.8	2399.0	2682.5	2842.4	3038.7	3518.5	3758.4	3758.4	3671.2
102.5°	2653.4	2668.0	2777.0	2936.9	3271.3	3511.2	3736.6	4318.2	4805.2	4987.0	5059.7
105°	3126.0	3176.8	3293.2	3518.5	3925.6	4194.6	4405.4	5067.0	5634.0	5946.6	6186.5
107.5°	3729.3	3809.3	4005.6	4267.3	4754.4	5067.0	5335.9	5873.9	6368.2	6680.8	6673.5
110°	4601.7	4645.3	4848.9	5190.5	5612.2	5859.3	6026.5	6404.6	6739.0	6768.1	6782.6
112.5°	5306.8	5466.8	5626.7	5866.6	6193.7	6310.1	6390.0	6622.7	6789.9	6818.9	6768.1
115°	5997.5	6055.6	6135.6	6295.5	6448.2	6564.5	6579.0	6702.6	6739.0	6804.4	6688.1
117.5°	6426.4	6455.5	6462.7	6520.9	6600.8	6666.3	6651.7	6688.1	6731.7	6644.5	6586.3
120°	6651.7	6680.8	6629.9	6651.7	6673.5	6688.1	6659.0	6673.5	6593.6	6528.2	6462.7
122.5°	6739.0	6731.7	6680.8	6680.8	6651.7	6644.5	6586.3	6535.4	6477.3	6390.0	6310.1
125°	6666.3	6695.4	6629.9	6579.0	6513.6	6622.7	6477.3	6426.4	6324.6	6295.5	6142.9
127.5°	6571.8	6629.9	6520.9	6470.0	6404.6	6382.8	6295.5	6222.8	6150.1	6070.2	5968.4
130°	6426.4	6448.2	6346.4	6295.5	6230.1	6164.7	6150.1	5990.2	5939.3	5888.4	5750.3
132.5°	6281.0	6244.6	6142.9	6077.4	5997.5	5961.1	5924.8	5786.6	5714.0	5604.9	5532.2
135°	5997.5	6004.7	5910.2	5837.5	5728.5	5728.5	5663.1	5561.3	5466.8	5372.3	5277.8
137.5°	5728.5	5779.4	5641.3	5575.8	5517.7	5474.1	5386.8	5292.3	5190.5	5154.2	5081.5
140°	5452.2	5459.5	5350.5	5292.3	5248.7	5168.7	5117.8	5030.6	4994.3	4928.8	4827.1
142.5°	5212.3	5183.3	5096.0	5030.6	4987.0	4928.8	4899.7	4812.5	4754.4	4696.2	4659.9
145°	4928.8	4921.6	4819.8	4776.2	4739.8	4718.0	4667.1	4601.7	4572.6	4521.7	4521.7
147.5°	4688.9	4652.6	4594.4	4543.5	4499.9	4478.1	4478.1	4361.8	4383.6	4376.3	4310.9
150°	4434.5	4427.2	4347.3	4325.4	4289.1	4303.6	4289.1	4238.2	4238.2	4209.1	4165.5
152.5°	4230.9	4230.9	4165.5	4151.0	4136.4	4129.2	4100.1	4078.3	4078.3	4071.0	4020.1
155°	4063.7	4063.7	4012.9	4005.6	3983.8	3976.5	3962.0	3940.2	3925.6	3911.1	3867.5
157.5°	3925.6	3918.3	3860.2	3867.5	3845.6	3845.6	3838.4	3794.8	3809.3	3802.0	3773.0
160°	3794.8	3787.5	3729.3	3751.1	3736.6	3736.6	3736.6	3707.5	3693.0	3693.0	3627.6
162.5°	3678.4	3693.0	3634.8	3627.6	3634.8	3634.8	3605.7	3583.9	3605.7	3627.6	3562.1
165°	3576.7	3562.1	3540.3	3533.1	3518.5	3504.0	3518.5	3504.0	3489.4	3518.5	3496.7
167.5°	3474.9	3489.4	3445.8	3431.3	3431.3	3460.4	3438.5	3409.5	3424.0	3416.7	3373.1
170°	3387.7	3402.2	3344.0	3344.0	3344.0	3344.0	3322.2	3300.4	3336.8	3351.3	3300.4
172.5°	3300.4	3322.2	3271.3	3264.1	3256.8	3271.3	3256.8	3235.0	3278.6	3256.8	3235.0
175°	3205.9	3242.3	3191.4	3184.1	3198.6	3198.6	3184.1	3169.6	3198.6	3184.1	3169.6
177.5°	3162.3	3162.3	3111.4	3118.7	3118.7	3111.4	3133.2	3126.0	3133.2	3133.2	3162.3
180°	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9



TEST NUMBER: P508473

CATALOG NUMBER: ASYX-X-S4-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°	167.2	196.3	210.8	116.3	116.3	130.9	123.6	109.0	94.5	87.2	87.2
95°	1257.7	1192.2	1228.6	1105.0	959.6	843.3	836.0	843.3	581.6	436.2	428.9
97.5°	2704.3	2675.2	2449.9	2100.9	1999.2	2006.4	1882.8	1563.0	1308.5	1119.5	966.9
100°	3518.5	3424.0	3322.2	3394.9	3191.4	3031.4	2806.1	2522.6	2224.5	1970.1	1621.1
102.5°	5016.1	4870.7	4499.9	4092.8	3685.7	3540.3	3373.1	3053.3	2740.7	2442.6	2086.4
105°	6382.8	6135.6	5510.4	4928.8	4376.3	4209.1	3991.0	3634.8	3271.3	2973.3	2580.7
107.5°	6709.9	6528.2	6179.2	5786.6	5306.8	5030.6	4827.1	4441.8	4100.1	3693.0	3242.3
110°	6739.0	6557.2	6339.1	6070.2	5837.5	5677.6	5546.7	5256.0	5008.8	4652.6	4194.6
112.5°	6659.0	6491.8	6331.9	6179.2	5997.5	5903.0	5786.6	5684.9	5539.5	5306.8	4877.9
115°	6528.2	6382.8	6237.4	6106.5	6019.3	5975.7	5917.5	5837.5	5757.6	5583.1	5197.8
117.5°	6404.6	6237.4	6106.5	6062.9	5982.9	5917.5	5910.2	5895.7	5844.8	5757.6	5386.8
120°	6281.0	6150.1	6019.3	5924.8	5895.7	5888.4	5888.4	5844.8	5859.3	5786.6	5415.9
122.5°	6084.7	5982.9	5873.9	5830.3	5706.7	5735.8	5750.3	5721.2	5779.4	5728.5	5379.5
125°	5968.4	5866.6	5728.5	5663.1	5641.3	5612.2	5641.3	5590.4	5619.4	5583.1	5314.1
127.5°	5772.1	5641.3	5568.6	5517.7	5503.1	5401.4	5452.2	5459.5	5466.8	5408.6	5168.7
130°	5561.3	5488.6	5321.4	5343.2	5343.2	5306.8	5314.1	5285.0	5270.5	5219.6	4943.4
132.5°	5408.6	5314.1	5205.1	5176.0	5146.9	5139.6	5139.6	5088.8	5088.8	5023.3	4841.6
135°	5139.6	5074.2	5030.6	5001.5	4994.3	4965.2	4965.2	4914.3	4907.0	4848.9	4667.1
137.5°	4950.6	4885.2	4848.9	4827.1	4805.2	4754.4	4783.4	4739.8	4696.2	4681.7	4507.2
140°	4761.6	4710.7	4681.7	4645.3	4638.0	4609.0	4609.0	4558.1	4543.5	4478.1	4303.6
142.5°	4601.7	4572.6	4514.5	4499.9	4449.0	4456.3	4420.0	4427.2	4369.1	4296.4	4158.2
145°	4383.6	4390.9	4361.8	4332.7	4325.4	4281.8	4289.1	4245.5	4209.1	4158.2	4049.2
147.5°	4267.3	4267.3	4223.7	4187.3	4158.2	4151.0	4114.6	4121.9	4063.7	3991.0	3918.3
150°	4114.6	4100.1	4056.5	4034.7	4012.9	4012.9	3976.5	3954.7	3911.1	3889.3	3794.8
152.5°	4005.6	3969.2	3947.4	3903.8	3903.8	3867.5	3838.4	3823.8	3787.5	3743.9	3671.2
155°	3852.9	3838.4	3809.3	3802.0	3773.0	3743.9	3693.0	3685.7	3663.9	3620.3	3554.9
157.5°	3729.3	3751.1	3707.5	3685.7	3642.1	3634.8	3583.9	3591.2	3547.6	3518.5	3460.4
160°	3671.2	3634.8	3591.2	3583.9	3569.4	3511.2	3504.0	3482.2	3453.1	3431.3	3358.6
162.5°	3540.3	3533.1	3511.2	3496.7	3445.8	3445.8	3358.6	3394.9	3373.1	3351.3	3315.0
165°	3467.6	3474.9	3424.0	3409.5	3394.9	3365.9	3344.0	3322.2	3300.4	3285.9	3249.5
167.5°	3373.1	3358.6	3344.0	3315.0	3322.2	3300.4	3278.6	3264.1	3249.5	3235.0	3205.9
170°	3293.2	3285.9	3271.3	3249.5	3256.8	3235.0	3235.0	3205.9	3198.6	3191.4	3155.0
172.5°	3227.7	3227.7	3213.2	3213.2	3205.9	3184.1	3169.6	3155.0	3155.0	3140.5	3133.2
175°	3162.3	3169.6	3162.3	3155.0	3155.0	3140.5	3140.5	3147.8	3133.2	3133.2	3111.4
177.5°	3111.4	3111.4	3111.4	3111.4	3111.4	3111.4	3111.4	3104.1	3111.4	3104.1	3082.3
180°	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9



TEST NUMBER: P508473

CATALOG NUMBER: ASYX-X-S4-X-U-W-L35-1-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°	94.5	101.8	109.0	116.3	138.1	130.9	152.7	159.9	174.5	203.6	210.8
95°	385.3	385.3	378.0	378.0	363.5	363.5	356.2	348.9	385.3	428.9	487.1
97.5°	792.4	676.1	617.9	596.1	588.8	581.6	567.0	545.2	559.8	596.1	668.8
100°	1337.6	1105.0	916.0	806.9	785.1	748.8	734.2	727.0	727.0	799.7	916.0
102.5°	1730.2	1388.5	1141.3	981.4	937.8	901.4	879.6	879.6	894.2	981.4	1112.3
105°	2188.2	1752.0	1374.0	1163.1	1126.8	1075.9	1039.6	1046.8	1061.4	1141.3	1257.7
107.5°	2740.7	2217.2	1766.5	1439.4	1359.4	1286.7	1228.6	1228.6	1235.8	1286.7	1374.0
110°	3569.4	2893.3	2217.2	1730.2	1599.3	1519.4	1381.2	1381.2	1374.0	1410.3	1468.5
112.5°	4201.9	3416.7	2646.2	2021.0	1839.2	1708.4	1563.0	1519.4	1519.4	1526.6	1563.0
115°	4579.9	3765.7	2944.2	2289.9	2050.0	1890.1	1708.4	1657.5	1635.7	1650.2	1635.7
117.5°	4798.0	3976.5	3198.6	2486.2	2260.9	2079.1	1853.8	1788.3	1752.0	1781.1	1773.8
120°	4907.0	4165.5	3402.2	2689.8	2457.1	2246.3	2006.4	1941.0	1911.9	1911.9	1919.2
122.5°	4921.6	4267.3	3518.5	2871.5	2638.9	2435.3	2188.2	2093.7	2064.6	2071.9	2071.9
125°	4870.7	4252.7	3627.6	3016.9	2791.5	2588.0	2333.6	2253.6	2188.2	2217.2	2224.5
127.5°	4790.7	4216.4	3693.0	3133.2	2929.7	2747.9	2515.3	2420.8	2362.6	2377.2	2369.9
130°	4674.4	4172.8	3751.1	3235.0	3060.5	2878.8	2675.2	2588.0	2508.0	2515.3	2522.6
132.5°	4558.1	4158.2	3780.2	3315.0	3169.6	3016.9	2813.4	2726.1	2653.4	2660.7	2660.7
135°	4434.5	4121.9	3743.9	3365.9	3293.2	3133.2	2966.0	2871.5	2813.4	2813.4	2798.8
137.5°	4303.6	4034.7	3773.0	3467.6	3365.9	3235.0	3067.8	2995.1	2936.9	2929.7	2922.4
140°	4187.3	3940.2	3736.6	3489.4	3416.7	3315.0	3176.8	3118.7	3038.7	3024.2	3067.8
142.5°	4071.0	3896.5	3773.0	3540.3	3467.6	3380.4	3278.6	3198.6	3140.5	3126.0	3118.7
145°	3954.7	3852.9	3714.8	3525.8	3496.7	3409.5	3300.4	3278.6	3213.2	3198.6	3198.6
147.5°	3838.4	3751.1	3649.4	3518.5	3518.5	3445.8	3394.9	3329.5	3278.6	3249.5	3249.5
150°	3736.6	3663.9	3613.0	3511.2	3504.0	3445.8	3402.2	3373.1	3315.0	3300.4	3293.2
152.5°	3642.1	3576.7	3533.1	3467.6	3460.4	3380.4	3394.9	3365.9	3307.7	3293.2	3293.2
155°	3525.8	3518.5	3467.6	3402.2	3431.3	3387.7	3351.3	3387.7	3300.4	3315.0	3315.0
157.5°	3445.8	3438.5	3431.3	3365.9	3373.1	3351.3	3329.5	3358.6	3285.9	3293.2	3293.2
160°	3358.6	3344.0	3344.0	3285.9	3329.5	3285.9	3293.2	3307.7	3264.1	3271.3	3293.2
162.5°	3315.0	3285.9	3285.9	3264.1	3278.6	3264.1	3227.7	3278.6	3271.3	3256.8	3264.1
165°	3242.3	3235.0	3249.5	3205.9	3242.3	3198.6	3213.2	3235.0	3220.5	3227.7	3235.0
167.5°	3198.6	3191.4	3198.6	3176.8	3198.6	3184.1	3176.8	3205.9	3191.4	3198.6	3205.9
170°	3162.3	3162.3	3169.6	3147.8	3169.6	3147.8	3169.6	3169.6	3162.3	3162.3	3176.8
172.5°	3147.8	3126.0	3147.8	3111.4	3147.8	3104.1	3118.7	3140.5	3133.2	3126.0	3126.0
175°	3118.7	3111.4	3133.2	3096.9	3118.7	3096.9	3096.9	3118.7	3111.4	3104.1	3133.2
177.5°	3118.7	3096.9	3118.7	3082.3	3104.1	3089.6	3089.6	3111.4	3096.9	3096.9	3118.7
180°	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9



TEST NUMBER: P508473

CATALOG NUMBER: ASYX-X-S4-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°	210.8	247.2	254.4	276.2	269.0	225.4	196.3	159.9	138.1
95°	552.5	610.7	668.8	661.5	683.3	639.7	596.1	574.3	545.2
97.5°	741.5	836.0	894.2	894.2	901.4	872.4	857.8	872.4	836.0
100°	1046.8	1112.3	1134.1	1126.8	1105.0	1054.1	1025.0	1010.5	988.7
102.5°	1228.6	1301.3	1323.1	1308.5	1294.0	1272.2	1243.1	1228.6	1221.3
105°	1352.2	1417.6	1446.7	1439.4	1432.1	1395.8	1337.6	1359.4	1352.2
107.5°	1468.5	1512.1	1541.2	1519.4	1512.1	1490.3	1453.9	1475.7	1446.7
110°	1541.2	1577.5	1584.8	1584.8	1570.2	1548.4	1519.4	1526.6	1504.8
112.5°	1599.3	1621.1	1621.1	1621.1	1606.6	1577.5	1563.0	1548.4	1548.4
115°	1664.8	1650.2	1657.5	1657.5	1642.9	1599.3	1577.5	1563.0	1548.4
117.5°	1781.1	1759.3	1737.4	1737.4	1701.1	1672.0	1650.2	1628.4	1606.6
120°	1890.1	1875.6	1861.0	1839.2	1817.4	1781.1	1744.7	1715.6	1701.1
122.5°	2035.5	1999.2	1977.3	1991.9	1948.3	1911.9	1868.3	1839.2	1802.9
125°	2195.4	2166.4	2130.0	2115.5	2079.1	2050.0	2013.7	1984.6	1941.0
127.5°	2333.6	2289.9	2275.4	2268.1	2224.5	2188.2	2130.0	2108.2	2108.2
130°	2493.5	2442.6	2449.9	2413.5	2377.2	2319.0	2260.9	2260.9	2253.6
132.5°	2646.2	2588.0	2580.7	2566.2	2522.6	2479.0	2442.6	2435.3	2406.3
135°	2769.7	2726.1	2718.9	2704.3	2668.0	2624.3	2566.2	2580.7	2522.6
137.5°	2878.8	2857.0	2849.7	2820.6	2784.3	2777.0	2711.6	2704.3	2668.0
140°	3002.4	2958.8	2987.8	2951.5	2907.9	2893.3	2806.1	2820.6	2820.6
142.5°	3089.6	3067.8	3060.5	3046.0	3016.9	2987.8	2966.0	2936.9	2951.5
145°	3176.8	3162.3	3147.8	3147.8	3104.1	3089.6	3046.0	3046.0	3024.2
147.5°	3249.5	3220.5	3220.5	3205.9	3184.1	3169.6	3126.0	3147.8	3111.4
150°	3249.5	3264.1	3249.5	3249.5	3256.8	3249.5	3213.2	3198.6	3205.9
152.5°	3307.7	3285.9	3271.3	3300.4	3264.1	3285.9	3235.0	3249.5	3235.0
155°	3278.6	3293.2	3300.4	3285.9	3285.9	3285.9	3264.1	3300.4	3264.1
157.5°	3307.7	3293.2	3300.4	3293.2	3278.6	3300.4	3278.6	3307.7	3285.9
160°	3293.2	3278.6	3293.2	3285.9	3271.3	3300.4	3300.4	3322.2	3293.2
162.5°	3242.3	3256.8	3293.2	3271.3	3271.3	3322.2	3242.3	3315.0	3271.3
165°	3227.7	3235.0	3249.5	3264.1	3235.0	3256.8	3256.8	3264.1	3242.3
167.5°	3213.2	3184.1	3213.2	3213.2	3220.5	3220.5	3220.5	3235.0	3205.9
170°	3184.1	3126.0	3184.1	3184.1	3169.6	3169.6	3162.3	3205.9	3169.6
172.5°	3133.2	3118.7	3140.5	3140.5	3155.0	3147.8	3147.8	3155.0	3133.2
175°	3104.1	3111.4	3140.5	3118.7	3111.4	3118.7	3096.9	3118.7	3096.9
177.5°	3089.6	3089.6	3096.9	3104.1	3118.7	3104.1	3082.3	3104.1	3082.3
180°	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9

(END OF REPORT)