

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: P508349

Luminaire Tested: **ASYX-X-L3-X-U-F-L35-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508349
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-L3-X-U-F-L35-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(3) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

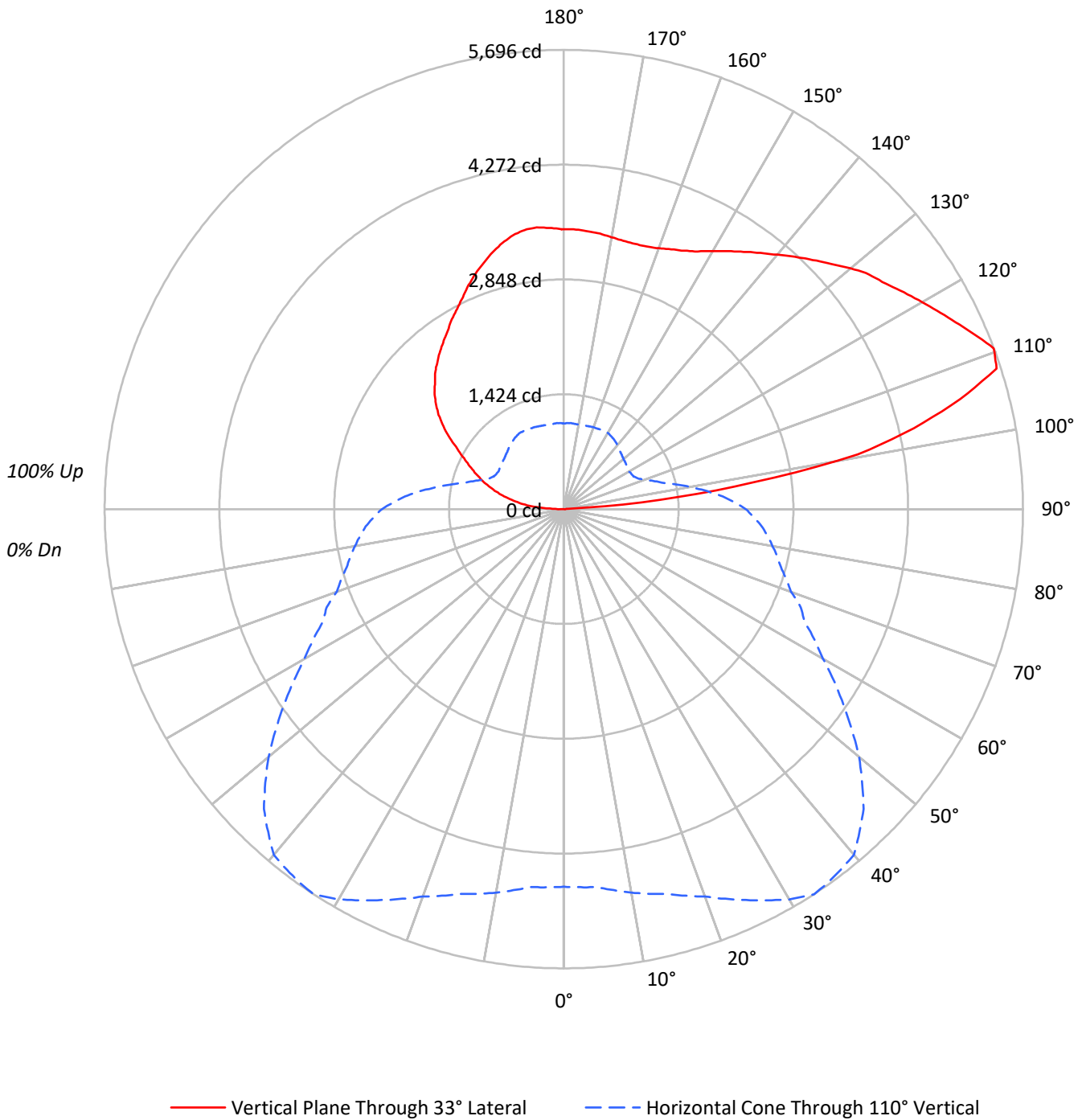
Lumens per Lamp: N/A
Luminaire Lumens: 16482.9 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
N/A
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Indirect

Input Watts (W): 165.2
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: P508349
CATALOG NUMBER: ASYX-X-L3-X-U-F-L35-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot





TEST NUMBER: P508349

CATALOG NUMBER: ASYX-X-L3-X-U-F-L35-1-UNV-X-X-X-STD

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°	60084	23058	50302
100°	152525	49087	41376
105°	148205	54344	35288
110°	147400	71028	33467
115°	128509	80535	30686
120°	106795	79151	29590
125°	90972	73776	30146
130°	77767	67631	31827
135°	66904	62169	32203
140°	58340	57385	32110
145°	51287	52921	32333
150°	44996	49424	32341
155°	41317	46355	32784
160°	38228	43218	33888
165°	36938	40909	35552
170°	36786	39074	37034
175°	37649	37833	37343



TEST NUMBER: P508349

CATALOG NUMBER: ASYX-X-L3-X-U-F-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°	598.3	3.6
100°-110°	2206.7	13.4
110°-120°	2994.2	18.2
120°-130°	2980.9	18.1
130°-140°	2653.7	16.1
140°-150°	2156.4	13.1
150°-160°	1583.4	9.6
160°-170°	977.1	5.9
170°-180°	332.0	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°	5799.3	35.2
90°-150°	13590.3	82.5
90°-180°	16483.0	100.0
0°-180°	16482.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	486	718	187	283	407	806
105°	3564	4785	1307	769	848	3793
115°	5046	5193	3162	1228	1205	4934
125°	4848	4848	3931	1742	1606	4333
135°	4395	4412	4084	2200	2116	3424
145°	3903	3914	4027	2608	2461	2455
155°	3479	3598	3903	3060	2760	1605
165°	3315	3434	3671	3400	3190	947
175°	3484	3450	3501	3501	3456	327
180°	3473	3473	3473	3473	3473	



TEST NUMBER: P508349

CATALOG NUMBER: ASYX-X-L3-X-U-F-L35-1-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°	28.3	28.3	28.3	33.9	39.6	39.6	50.9	56.6	50.9	73.5	84.8
95°	486.5	560.0	803.2	956.0	944.6	893.7	950.3	1114.3	1199.2	1091.7	927.7
97.5°	1221.8	1267.1	1770.5	2008.1	2217.4	2319.2	2409.7	2336.1	2375.7	2353.1	2143.8
100°	2460.6	2607.7	2783.0	3026.2	3326.0	3541.0	3705.0	3835.1	3710.7	3512.7	2935.7
102.5°	3150.7	3201.6	3320.4	3444.8	3767.2	3925.6	4089.7	4372.5	4457.3	4417.7	4106.6
105°	3563.6	3591.9	3705.0	3891.7	4140.6	4315.9	4519.6	4887.2	5102.2	5124.8	5147.4
107.5°	4084.0	4146.2	4282.0	4400.8	4694.9	4898.5	5079.5	5458.5	5645.2	5656.5	5577.3
110°	4683.6	4706.2	4830.7	4943.8	5113.5	5232.3	5351.1	5588.6	5696.1	5679.1	5599.9
112.5°	5006.0	5034.3	5079.5	5119.1	5198.3	5249.2	5322.8	5475.5	5537.7	5554.7	5475.5
115°	5045.6	5045.6	5079.5	5085.2	5175.7	5175.7	5209.6	5356.7	5385.0	5407.6	5362.4
117.5°	5011.7	5023.0	5045.6	5034.3	5073.9	5130.5	5119.1	5209.6	5243.6	5226.6	5243.6
120°	4960.8	4949.4	4994.7	4972.1	5000.4	5034.3	5011.7	5079.5	5107.8	5096.5	5153.1
122.5°	4909.9	4909.9	4926.8	4921.2	4909.9	4898.5	4904.2	4949.4	4977.7	4972.1	5006.0
125°	4847.6	4842.0	4836.3	4813.7	4842.0	4825.0	4796.7	4830.7	4853.3	4842.0	4875.9
127.5°	4745.8	4751.5	4740.2	4728.8	4694.9	4689.2	4717.5	4700.6	4757.1	4723.2	4757.1
130°	4644.0	4644.0	4632.7	4610.1	4598.7	4576.1	4570.5	4581.8	4615.7	4627.0	4576.1
132.5°	4564.8	4525.2	4496.9	4480.0	4480.0	4457.3	4446.0	4457.3	4474.3	4502.6	4508.2
135°	4395.1	4372.5	4372.5	4349.9	4383.8	4332.9	4321.6	4338.5	4344.2	4344.2	4378.1
137.5°	4298.9	4242.4	4219.8	4214.1	4208.4	4191.5	4191.5	4214.1	4219.8	4214.1	4242.4
140°	4151.9	4089.7	4112.3	4084.0	4089.7	4061.4	4072.7	4072.7	4095.3	4095.3	4123.6
142.5°	4067.0	3976.5	3965.2	3948.2	3953.9	3942.6	3999.2	3959.6	3982.2	4021.8	4004.8
145°	3903.0	3829.5	3846.4	3829.5	3835.1	3823.8	3852.1	3846.4	3874.7	3869.1	3897.3
147.5°	3727.6	3722.0	3727.6	3716.3	3727.6	3716.3	3750.3	3744.6	3772.9	3789.9	3795.5
150°	3620.2	3597.5	3603.2	3614.5	3603.2	3625.8	3625.8	3648.5	3676.7	3682.4	3705.0
152.5°	3507.0	3501.4	3529.7	3512.7	3524.0	3524.0	3541.0	3546.6	3586.2	3591.9	3648.5
155°	3478.8	3427.8	3427.8	3422.2	3450.5	3450.5	3473.1	3507.0	3524.0	3552.3	3557.9
157.5°	3376.9	3371.3	3371.3	3393.9	3365.6	3399.6	3450.5	3433.5	3478.8	3484.4	3507.0
160°	3337.3	3320.4	3331.7	3343.0	3343.0	3371.3	3410.9	3405.2	3433.5	3467.4	3473.1
162.5°	3360.0	3303.4	3309.1	3337.3	3326.0	3365.6	3371.3	3382.6	3410.9	3422.2	3456.1
165°	3314.7	3297.7	3286.4	3297.7	3331.7	3348.7	3365.6	3376.9	3405.2	3410.9	3427.8
167.5°	3331.7	3326.0	3326.0	3337.3	3360.0	3360.0	3388.3	3382.6	3410.9	3410.9	3422.2
170°	3365.6	3348.7	3360.0	3382.6	3343.0	3405.2	3399.6	3382.6	3427.8	3427.8	3444.8
172.5°	3410.9	3393.9	3399.6	3399.6	3399.6	3433.5	3439.2	3444.8	3450.5	3444.8	3444.8
175°	3484.4	3439.2	3433.5	3433.5	3444.8	3444.8	3456.1	3427.8	3461.8	3461.8	3456.1
177.5°	3467.4	3450.5	3478.8	3450.5	3439.2	3461.8	3478.8	3456.1	3473.1	3456.1	3473.1
180°	3473.1	3473.1	3473.1	3473.1	3473.1	3473.1	3473.1	3473.1	3473.1	3473.1	3473.1



TEST NUMBER: P508349

CATALOG NUMBER: ASYX-X-L3-X-U-F-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°	73.5	73.5	73.5	67.9	62.2	62.2	62.2	62.2	56.6	50.9	50.9
95°	718.4	571.3	520.4	429.9	362.0	333.7	288.5	288.5	214.9	175.4	186.7
97.5°	1804.4	1402.8	1114.3	842.8	803.2	752.3	746.7	633.5	560.0	509.1	441.2
100°	2341.8	1923.2	1668.7	1527.3	1340.6	1255.7	1193.5	1074.7	1001.2	899.4	791.9
102.5°	3478.8	2890.5	2392.7	1974.1	1691.3	1572.5	1493.3	1368.9	1278.4	1176.6	1040.8
105°	4785.4	3959.6	3128.1	2500.2	2121.2	1968.5	1832.7	1708.3	1589.5	1431.1	1306.7
107.5°	5136.1	4536.5	3908.7	3207.2	2681.2	2528.5	2370.1	2160.8	2002.4	1866.6	1651.7
110°	5260.6	4779.8	4236.7	3716.3	3292.1	3184.6	2998.0	2788.7	2630.3	2466.2	2256.9
112.5°	5209.6	4909.9	4474.3	4010.5	3665.4	3557.9	3422.2	3292.1	3207.2	3082.8	2805.6
115°	5192.7	4949.4	4644.0	4231.1	3920.0	3801.2	3693.7	3574.9	3552.3	3467.4	3162.0
117.5°	5119.1	4955.1	4723.2	4389.5	4112.3	4033.1	3925.6	3829.5	3818.1	3733.3	3467.4
120°	5068.2	4932.5	4734.5	4513.9	4276.3	4191.5	4101.0	4027.4	3993.5	3931.3	3676.7
122.5°	4949.4	4898.5	4745.8	4559.1	4344.2	4304.6	4219.8	4095.3	4151.9	4084.0	3840.8
125°	4847.6	4819.3	4779.8	4553.5	4400.8	4349.9	4287.6	4214.1	4231.1	4185.8	3931.3
127.5°	4740.2	4734.5	4706.2	4570.5	4429.0	4406.4	4332.9	4276.3	4265.0	4219.8	3993.5
130°	4655.3	4649.7	4610.1	4519.6	4429.0	4423.4	4349.9	4304.6	4298.9	4259.4	4038.7
132.5°	4530.9	4530.9	4553.5	4463.0	4406.4	4389.5	4355.5	4298.9	4315.9	4231.1	4061.4
135°	4412.1	4417.7	4434.7	4389.5	4423.4	4361.2	4327.2	4253.7	4287.6	4253.7	4084.0
137.5°	4276.3	4293.3	4327.2	4310.3	4327.2	4332.9	4287.6	4270.7	4270.7	4236.7	4078.3
140°	4112.3	4180.2	4242.4	4236.7	4270.7	4265.0	4248.0	4168.8	4242.4	4219.8	4084.0
142.5°	4038.7	4078.3	4151.9	4134.9	4208.4	4208.4	4197.1	4191.5	4208.4	4168.8	4061.4
145°	3914.3	3976.5	4033.1	4067.0	4112.3	4157.5	4140.6	4151.9	4157.5	4157.5	4027.4
147.5°	3835.1	3903.0	3976.5	3987.8	4067.0	4078.3	4084.0	4101.0	4134.9	4089.7	4038.7
150°	3750.3	3795.5	3880.4	3914.3	3999.2	4016.1	4010.5	4033.1	4089.7	4055.7	3976.5
152.5°	3620.2	3716.3	3789.9	3840.8	3903.0	3942.6	3948.2	3948.2	3999.2	3999.2	3953.9
155°	3597.5	3648.5	3716.3	3767.2	3835.1	3874.7	3880.4	3880.4	3931.3	3914.3	3903.0
157.5°	3546.6	3614.5	3671.1	3688.0	3772.9	3806.8	3806.8	3818.1	3863.4	3874.7	3835.1
160°	3512.7	3546.6	3614.5	3665.4	3710.7	3750.3	3755.9	3767.2	3795.5	3789.9	3772.9
162.5°	3461.8	3512.7	3574.9	3603.2	3654.1	3693.7	3688.0	3688.0	3739.0	3750.3	3727.6
165°	3433.5	3490.1	3563.6	3580.6	3614.5	3637.1	3631.5	3648.5	3693.7	3682.4	3671.1
167.5°	3444.8	3473.1	3535.3	3529.7	3569.3	3586.2	3586.2	3574.9	3603.2	3563.6	3597.5
170°	3461.8	3461.8	3495.7	3507.0	3541.0	3557.9	3541.0	3541.0	3557.9	3569.3	3574.9
172.5°	3467.4	3461.8	3490.1	3484.4	3495.7	3524.0	3507.0	3484.4	3518.4	3541.0	3512.7
175°	3450.5	3456.1	3501.4	3490.1	3473.1	3501.4	3473.1	3467.4	3518.4	3512.7	3501.4
177.5°	3433.5	3433.5	3461.8	3439.2	3478.8	3478.8	3450.5	3450.5	3507.0	3467.4	3456.1
180°	3473.1	3473.1	3473.1	3473.1	3473.1	3473.1	3473.1	3473.1	3473.1	3473.1	3473.1



TEST NUMBER: P508349

CATALOG NUMBER: ASYX-X-L3-X-U-F-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°	56.6	62.2	67.9	79.2	84.8	90.5	101.8	113.1	130.1	130.1	152.7
95°	181.0	186.7	186.7	198.0	203.6	203.6	209.3	231.9	254.5	282.8	333.7
97.5°	384.6	339.4	328.1	328.1	333.7	333.7	339.4	350.7	367.7	401.6	452.5
100°	678.8	577.0	503.4	463.8	452.5	446.9	452.5	452.5	480.8	526.1	582.6
102.5°	888.1	752.3	627.9	571.3	548.7	554.3	548.7	560.0	599.6	639.2	701.4
105°	1120.0	944.6	786.3	701.4	667.5	661.8	661.8	673.1	718.4	769.3	814.5
107.5°	1436.8	1216.2	984.2	859.8	808.9	797.6	797.6	814.5	842.8	876.8	927.7
110°	1945.8	1583.8	1261.4	1063.4	995.5	956.0	933.3	950.3	967.3	995.5	1035.1
112.5°	2421.0	1974.1	1549.9	1250.1	1159.6	1097.4	1063.4	1063.4	1086.1	1108.7	1137.0
115°	2749.1	2251.3	1793.1	1442.4	1312.3	1255.7	1182.2	1187.9	1204.8	1227.5	1244.4
117.5°	3043.2	2511.5	1996.7	1623.4	1476.3	1385.8	1312.3	1295.3	1329.3	1357.6	1368.9
120°	3252.5	2737.8	2200.4	1810.1	1640.4	1538.6	1436.8	1419.8	1453.7	1459.4	1515.9
122.5°	3427.8	2901.8	2375.7	1974.1	1793.1	1708.3	1583.8	1561.2	1583.8	1623.4	1668.7
125°	3541.0	3048.9	2534.1	2126.8	1957.2	1844.0	1713.9	1697.0	1713.9	1742.2	1793.1
127.5°	3631.5	3167.6	2686.8	2285.2	2087.3	1996.7	1866.6	1832.7	1855.3	1866.6	1923.2
130°	3699.4	3303.4	2828.3	2438.0	2262.6	2172.1	1996.7	1962.8	1974.1	2002.4	2030.7
132.5°	3767.2	3388.3	2969.7	2596.3	2426.6	2324.8	2155.1	2081.6	2087.3	2109.9	2138.2
135°	3812.5	3478.8	3116.7	2754.7	2568.1	2488.9	2307.9	2234.3	2206.0	2200.4	2234.3
137.5°	3857.7	3563.6	3229.9	2901.8	2743.4	2652.9	2438.0	2353.1	2324.8	2319.2	2330.5
140°	3897.3	3637.1	3331.7	3060.2	2901.8	2794.3	2596.3	2488.9	2443.6	2421.0	2432.3
142.5°	3914.3	3699.4	3439.2	3229.9	3037.5	2913.1	2749.1	2641.6	2545.4	2517.1	2494.5
145°	3925.6	3795.5	3541.0	3337.3	3190.3	3116.7	2918.8	2777.3	2664.2	2607.7	2596.3
147.5°	3925.6	3789.9	3608.9	3427.8	3303.4	3224.2	3009.3	2918.8	2828.3	2732.1	2686.8
150°	3914.3	3852.1	3659.8	3518.4	3388.3	3326.0	3173.3	3003.6	2907.4	2839.6	2788.7
152.5°	3886.0	3801.2	3688.0	3563.6	3467.4	3427.8	3252.5	3145.0	3043.2	2941.4	2901.8
155°	3857.7	3789.9	3705.0	3603.2	3524.0	3473.1	3348.7	3241.2	3167.6	3060.2	3020.6
157.5°	3823.8	3778.6	3705.0	3648.5	3557.9	3524.0	3399.6	3326.0	3263.8	3156.3	3105.4
160°	3772.9	3744.6	3699.4	3620.2	3580.6	3552.3	3450.5	3393.9	3331.7	3252.5	3212.9
162.5°	3722.0	3727.6	3671.1	3654.1	3591.9	3569.3	3501.4	3439.2	3376.9	3331.7	3297.7
165°	3682.4	3705.0	3648.5	3591.9	3591.9	3580.6	3507.0	3478.8	3450.5	3399.6	3360.0
167.5°	3608.9	3637.1	3637.1	3569.3	3563.6	3580.6	3535.3	3507.0	3484.4	3444.8	3422.2
170°	3597.5	3597.5	3557.9	3563.6	3580.6	3541.0	3512.7	3507.0	3507.0	3484.4	3467.4
172.5°	3529.7	3563.6	3546.6	3535.3	3518.4	3518.4	3501.4	3507.0	3495.7	3501.4	3495.7
175°	3507.0	3512.7	3518.4	3512.7	3495.7	3495.7	3490.1	3495.7	3501.4	3501.4	3490.1
177.5°	3473.1	3490.1	3518.4	3490.1	3501.4	3478.8	3473.1	3484.4	3484.4	3490.1	3478.8
180°	3473.1	3473.1	3473.1	3473.1	3473.1	3473.1	3473.1	3473.1	3473.1	3473.1	3473.1



TEST NUMBER: P508349

CATALOG NUMBER: ASYX-X-L3-X-U-F-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°	169.7	181.0	186.7	192.3	198.0	181.0	181.0	164.0	152.7
95°	362.0	390.3	390.3	390.3	407.3	418.6	412.9	407.3	407.3
97.5°	492.1	537.4	571.3	577.0	577.0	577.0	582.6	582.6	571.3
100°	622.2	644.8	667.5	673.1	667.5	667.5	661.8	673.1	667.5
102.5°	746.7	769.3	774.9	780.6	774.9	769.3	758.0	769.3	746.7
105°	854.1	876.8	871.1	865.4	859.8	848.5	837.2	854.1	848.5
107.5°	972.9	978.6	984.2	989.9	967.3	961.6	961.6	972.9	967.3
110°	1069.1	1091.7	1086.1	1080.4	1080.4	1069.1	1063.4	1069.1	1063.4
112.5°	1170.9	1182.2	1176.6	1176.6	1170.9	1153.9	1137.0	1142.6	1137.0
115°	1278.4	1284.0	1278.4	1267.1	1255.7	1244.4	1221.8	1210.5	1204.8
117.5°	1391.5	1385.8	1374.5	1368.9	1357.6	1351.9	1318.0	1301.0	1295.3
120°	1521.6	1504.6	1482.0	1476.3	1459.4	1453.7	1408.5	1380.2	1374.5
122.5°	1680.0	1651.7	1606.4	1583.8	1578.2	1561.2	1504.6	1493.3	1476.3
125°	1815.7	1804.4	1776.1	1759.2	1736.5	1685.6	1623.4	1595.1	1606.4
127.5°	1945.8	1940.2	1928.9	1906.2	1878.0	1855.3	1804.4	1759.2	1747.9
130°	2053.3	2059.0	2042.0	2025.0	2008.1	1985.4	1928.9	1900.6	1900.6
132.5°	2155.1	2160.8	2172.1	2126.8	2115.5	2092.9	2042.0	2008.1	2019.4
135°	2234.3	2245.6	2228.7	2211.7	2200.4	2177.8	2126.8	2109.9	2115.5
137.5°	2341.8	2330.5	2313.5	2302.2	2273.9	2268.3	2228.7	2200.4	2189.1
140°	2409.7	2415.3	2415.3	2387.0	2358.8	2347.5	2307.9	2279.6	2285.2
142.5°	2500.2	2477.6	2488.9	2460.6	2443.6	2426.6	2375.7	2370.1	2370.1
145°	2568.1	2556.7	2551.1	2528.5	2522.8	2488.9	2471.9	2443.6	2460.6
147.5°	2641.6	2641.6	2641.6	2590.7	2579.4	2562.4	2545.4	2522.8	2539.8
150°	2749.1	2709.5	2698.2	2669.9	2647.2	2635.9	2596.3	2585.0	2602.0
152.5°	2833.9	2788.7	2754.7	2737.8	2732.1	2715.1	2692.5	2675.5	2675.5
155°	2935.7	2873.5	2873.5	2811.3	2794.3	2783.0	2760.4	2754.7	2760.4
157.5°	3043.2	2986.6	2958.4	2924.4	2896.1	2884.8	2856.5	2845.2	2856.5
160°	3122.4	3116.7	3054.5	3037.5	3009.3	2992.3	2986.6	2958.4	2958.4
162.5°	3246.8	3167.6	3156.3	3139.4	3116.7	3094.1	3082.8	3071.5	3082.8
165°	3314.7	3292.1	3263.8	3241.2	3224.2	3218.6	3184.6	3195.9	3190.3
167.5°	3393.9	3376.9	3348.7	3331.7	3337.3	3314.7	3314.7	3286.4	3292.1
170°	3450.5	3461.8	3427.8	3410.9	3399.6	3399.6	3376.9	3376.9	3388.3
172.5°	3490.1	3507.0	3478.8	3467.4	3456.1	3467.4	3444.8	3439.2	3450.5
175°	3501.4	3524.0	3501.4	3495.7	3484.4	3518.4	3478.8	3478.8	3456.1
177.5°	3490.1	3495.7	3518.4	3484.4	3484.4	3495.7	3501.4	3456.1	3484.4
180°	3473.1	3473.1	3473.1	3473.1	3473.1	3473.1	3473.1	3473.1	3473.1

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