

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: P508347

Luminaire Tested: **ASYX-X-L3-X-U-F-L27-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508347
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-L27-1-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: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

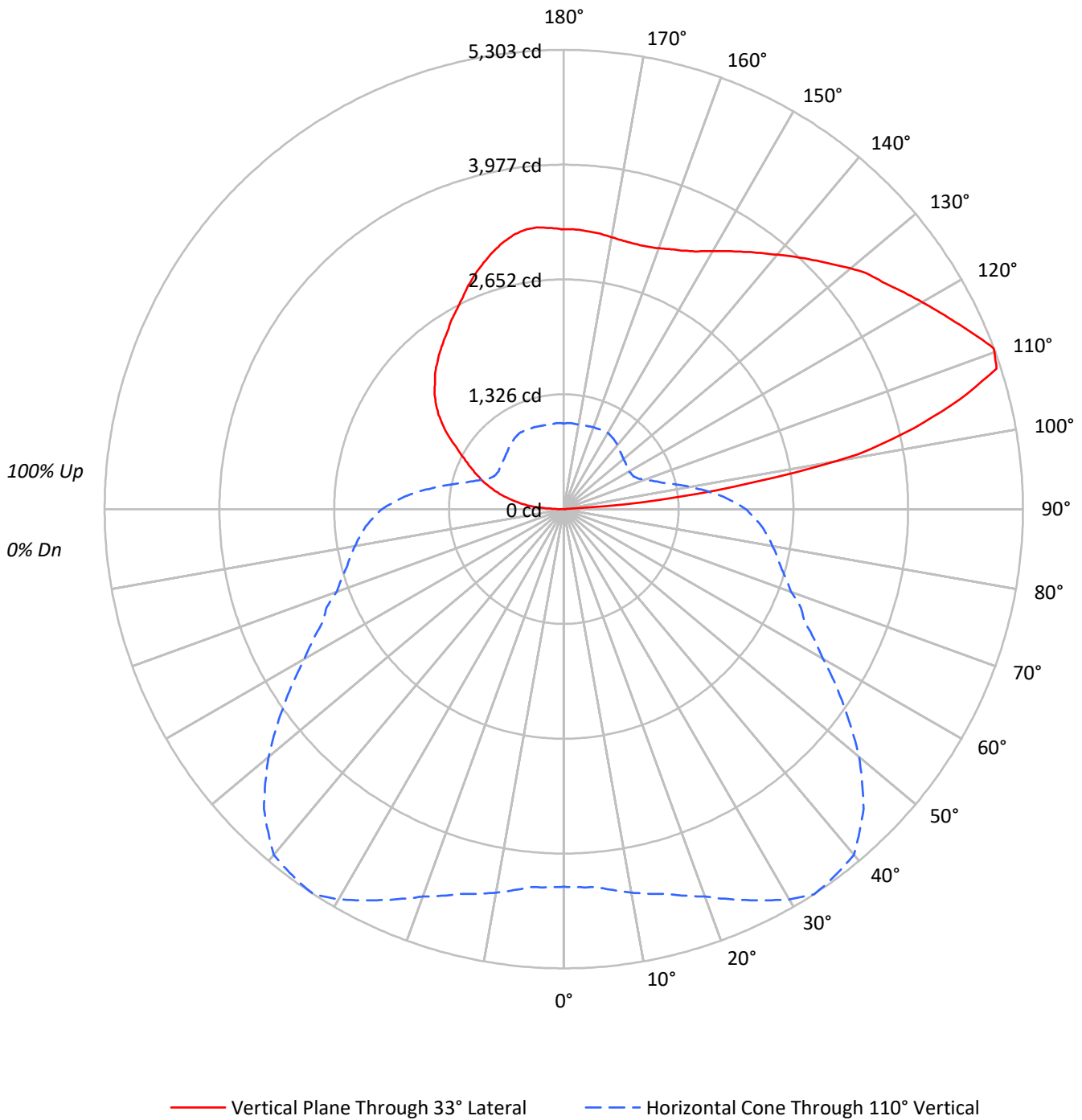
Lumens per Lamp: N/A
Luminaire Lumens: 15346.1 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
N/A
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Indirect

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: P508347
CATALOG NUMBER: ASYX-X-L3-X-U-F-L27-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot





TEST NUMBER: P508347

CATALOG NUMBER: ASYX-X-L3-X-U-F-L27-1-UNV-X-X-X-STD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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				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°	55934	21465	46832
100°	142006	45703	38519
105°	137983	50593	32855
110°	137235	66131	31160
115°	119646	74980	28569
120°	99428	73694	27549
125°	84698	68688	28069
130°	72403	62967	29631
135°	62290	57880	29982
140°	54315	53427	29896
145°	47749	49272	30103
150°	41892	46016	30109
155°	38466	43157	30523
160°	35592	40237	31550
165°	34390	38088	33100
170°	34249	36379	34480
175°	35053	35223	34768



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CATALOG NUMBER: ASYX-X-L3-X-U-F-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°	557.0	3.6
100°-110°	2054.5	13.4
110°-120°	2787.7	18.2
120°-130°	2775.3	18.1
130°-140°	2470.7	16.1
140°-150°	2007.7	13.1
150°-160°	1474.2	9.6
160°-170°	909.7	5.9
170°-180°	309.1	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°	5399.3	35.2
90°-150°	12653.1	82.5
90°-180°	15346.0	100.0
0°-180°	15346.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	453	669	174	263	379	750
105°	3318	4455	1216	716	790	3531
115°	4698	4835	2944	1143	1122	4593
125°	4513	4513	3660	1622	1496	4034
135°	4092	4108	3802	2049	1970	3188
145°	3634	3644	3750	2428	2291	2285
155°	3239	3349	3634	2849	2570	1495
165°	3086	3197	3418	3165	2970	881
175°	3244	3212	3260	3260	3218	305
180°	3234	3234	3234	3234	3234	



TEST NUMBER: P508347

CATALOG NUMBER: ASYX-X-L3-X-U-F-L27-1-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°	26.3	26.3	26.3	31.6	36.9	36.9	47.4	52.7	47.4	68.5	79.0
95°	452.9	521.4	747.8	890.0	879.5	832.1	884.8	1037.5	1116.5	1016.4	863.7
97.5°	1137.5	1179.7	1648.4	1869.6	2064.4	2159.2	2243.5	2175.0	2211.9	2190.8	1996.0
100°	2290.9	2427.8	2591.1	2817.5	3096.6	3296.8	3449.5	3570.6	3454.8	3270.4	2733.3
102.5°	2933.4	2980.8	3091.4	3207.2	3507.4	3654.9	3807.6	4070.9	4149.9	4113.1	3823.4
105°	3317.8	3344.2	3449.5	3623.3	3855.0	4018.3	4207.9	4550.2	4750.3	4771.4	4792.4
107.5°	3802.3	3860.3	3986.7	4097.3	4371.1	4560.7	4729.2	5082.1	5255.9	5266.4	5192.7
110°	4360.6	4381.7	4497.5	4602.8	4760.8	4871.4	4982.0	5203.2	5303.3	5287.5	5213.7
112.5°	4660.8	4687.1	4729.2	4766.1	4839.8	4887.2	4955.7	5097.9	5155.8	5171.6	5097.9
115°	4697.6	4697.6	4729.2	4734.5	4818.8	4818.8	4850.4	4987.3	5013.6	5034.7	4992.6
117.5°	4666.0	4676.6	4697.6	4687.1	4724.0	4776.6	4766.1	4850.4	4882.0	4866.2	4882.0
120°	4618.6	4608.1	4650.2	4629.2	4655.5	4687.1	4666.0	4729.2	4755.6	4745.0	4797.7
122.5°	4571.2	4571.2	4587.0	4581.8	4571.2	4560.7	4566.0	4608.1	4634.4	4629.2	4660.8
125°	4513.3	4508.0	4502.8	4481.7	4508.0	4492.2	4465.9	4497.5	4518.6	4508.0	4539.6
127.5°	4418.5	4423.8	4413.3	4402.7	4371.1	4365.9	4392.2	4376.4	4429.0	4397.5	4429.0
130°	4323.7	4323.7	4313.2	4292.1	4281.6	4260.5	4255.3	4265.8	4297.4	4307.9	4260.5
132.5°	4250.0	4213.1	4186.8	4171.0	4171.0	4149.9	4139.4	4149.9	4165.7	4192.1	4197.3
135°	4092.0	4070.9	4070.9	4049.9	4081.5	4034.1	4023.5	4039.3	4044.6	4044.6	4076.2
137.5°	4002.5	3949.8	3928.7	3923.5	3918.2	3902.4	3902.4	3923.5	3928.7	3923.5	3949.8
140°	3865.5	3807.6	3828.7	3802.3	3807.6	3781.3	3791.8	3791.8	3812.9	3812.9	3839.2
142.5°	3786.5	3702.3	3691.8	3676.0	3681.2	3670.7	3723.4	3686.5	3707.6	3744.4	3728.6
145°	3633.8	3565.4	3581.2	3565.4	3570.6	3560.1	3586.4	3581.2	3607.5	3602.2	3628.6
147.5°	3470.6	3465.3	3470.6	3460.0	3470.6	3460.0	3491.6	3486.4	3512.7	3528.5	3533.8
150°	3370.5	3349.4	3354.7	3365.2	3354.7	3375.8	3375.8	3396.8	3423.2	3428.4	3449.5
152.5°	3265.2	3259.9	3286.2	3270.4	3281.0	3281.0	3296.8	3302.0	3338.9	3344.2	3396.8
155°	3238.8	3191.4	3191.4	3186.2	3212.5	3212.5	3233.6	3265.2	3281.0	3307.3	3312.6
157.5°	3144.0	3138.8	3138.8	3159.8	3133.5	3165.1	3212.5	3196.7	3238.8	3244.1	3265.2
160°	3107.2	3091.4	3101.9	3112.4	3112.4	3138.8	3175.6	3170.4	3196.7	3228.3	3233.6
162.5°	3128.2	3075.6	3080.8	3107.2	3096.6	3133.5	3138.8	3149.3	3175.6	3186.2	3217.8
165°	3086.1	3070.3	3059.8	3070.3	3101.9	3117.7	3133.5	3144.0	3170.4	3175.6	3191.4
167.5°	3101.9	3096.6	3096.6	3107.2	3128.2	3128.2	3154.6	3149.3	3175.6	3175.6	3186.2
170°	3133.5	3117.7	3128.2	3149.3	3112.4	3170.4	3165.1	3149.3	3191.4	3191.4	3207.2
172.5°	3175.6	3159.8	3165.1	3165.1	3165.1	3196.7	3202.0	3207.2	3212.5	3207.2	3207.2
175°	3244.1	3202.0	3196.7	3196.7	3207.2	3207.2	3217.8	3191.4	3223.0	3223.0	3217.8
177.5°	3228.3	3212.5	3238.8	3212.5	3202.0	3223.0	3238.8	3217.8	3233.6	3217.8	3233.6
180°	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6



TEST NUMBER: P508347

CATALOG NUMBER: ASYX-X-L3-X-U-F-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°	68.5	68.5	68.5	63.2	57.9	57.9	57.9	57.9	52.7	47.4	47.4
95°	668.8	531.9	484.5	400.2	337.1	310.7	268.6	268.6	200.1	163.3	173.8
97.5°	1680.0	1306.1	1037.5	784.7	747.8	700.4	695.2	589.8	521.4	474.0	410.8
100°	2180.3	1790.6	1553.6	1421.9	1248.1	1169.1	1111.2	1000.6	932.2	837.4	737.3
102.5°	3238.8	2691.1	2227.7	1838.0	1574.7	1464.1	1390.3	1274.5	1190.2	1095.4	969.0
105°	4455.4	3686.5	2912.3	2327.8	1974.9	1832.7	1706.3	1590.5	1479.9	1332.4	1216.5
107.5°	4781.9	4223.7	3639.1	2986.1	2496.3	2354.1	2206.6	2011.8	1864.3	1737.9	1537.8
110°	4897.8	4450.1	3944.5	3460.0	3065.0	2965.0	2791.2	2596.3	2448.9	2296.2	2101.3
112.5°	4850.4	4571.2	4165.7	3733.9	3412.6	3312.6	3186.2	3065.0	2986.1	2870.2	2612.1
115°	4834.6	4608.1	4323.7	3939.3	3649.6	3539.0	3439.0	3328.4	3307.3	3228.3	2943.9
117.5°	4766.1	4613.4	4397.5	4086.7	3828.7	3754.9	3654.9	3565.4	3554.8	3475.8	3228.3
120°	4718.7	4592.3	4408.0	4202.6	3981.4	3902.4	3818.1	3749.7	3718.1	3660.2	3423.2
122.5°	4608.1	4560.7	4418.5	4244.7	4044.6	4007.7	3928.7	3812.9	3865.5	3802.3	3575.9
125°	4513.3	4487.0	4450.1	4239.5	4097.3	4049.9	3991.9	3923.5	3939.3	3897.1	3660.2
127.5°	4413.3	4408.0	4381.7	4255.3	4123.6	4102.5	4034.1	3981.4	3970.9	3928.7	3718.1
130°	4334.3	4329.0	4292.1	4207.9	4123.6	4118.3	4049.9	4007.7	4002.5	3965.6	3760.2
132.5°	4218.4	4218.4	4239.5	4155.2	4102.5	4086.7	4055.1	4002.5	4018.3	3939.3	3781.3
135°	4107.8	4113.1	4128.9	4086.7	4118.3	4060.4	4028.8	3960.3	3991.9	3960.3	3802.3
137.5°	3981.4	3997.2	4028.8	4013.0	4028.8	4034.1	3991.9	3976.1	3976.1	3944.5	3797.1
140°	3828.7	3891.9	3949.8	3944.5	3976.1	3970.9	3955.1	3881.3	3949.8	3928.7	3802.3
142.5°	3760.2	3797.1	3865.5	3849.7	3918.2	3918.2	3907.7	3902.4	3918.2	3881.3	3781.3
145°	3644.4	3702.3	3754.9	3786.5	3828.7	3870.8	3855.0	3865.5	3870.8	3870.8	3749.7
147.5°	3570.6	3633.8	3702.3	3712.8	3786.5	3797.1	3802.3	3818.1	3849.7	3807.6	3760.2
150°	3491.6	3533.8	3612.8	3644.4	3723.4	3739.1	3733.9	3754.9	3807.6	3776.0	3702.3
152.5°	3370.5	3460.0	3528.5	3575.9	3633.8	3670.7	3676.0	3676.0	3723.4	3723.4	3681.2
155°	3349.4	3396.8	3460.0	3507.4	3570.6	3607.5	3612.8	3612.8	3660.2	3644.4	3633.8
157.5°	3302.0	3365.2	3417.9	3433.7	3512.7	3544.3	3544.3	3554.8	3597.0	3607.5	3570.6
160°	3270.4	3302.0	3365.2	3412.6	3454.8	3491.6	3496.9	3507.4	3533.8	3528.5	3512.7
162.5°	3223.0	3270.4	3328.4	3354.7	3402.1	3439.0	3433.7	3433.7	3481.1	3491.6	3470.6
165°	3196.7	3249.4	3317.8	3333.6	3365.2	3386.3	3381.0	3396.8	3439.0	3428.4	3417.9
167.5°	3207.2	3233.6	3291.5	3286.2	3323.1	3338.9	3338.9	3328.4	3354.7	3317.8	3349.4
170°	3223.0	3223.0	3254.6	3265.2	3296.8	3312.6	3296.8	3296.8	3312.6	3323.1	3328.4
172.5°	3228.3	3223.0	3249.4	3244.1	3254.6	3281.0	3265.2	3244.1	3275.7	3296.8	3270.4
175°	3212.5	3217.8	3259.9	3249.4	3233.6	3259.9	3233.6	3228.3	3275.7	3270.4	3259.9
177.5°	3196.7	3196.7	3223.0	3202.0	3238.8	3238.8	3212.5	3212.5	3265.2	3228.3	3217.8
180°	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6



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CATALOG NUMBER: ASYX-X-L3-X-U-F-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°	52.7	57.9	63.2	73.7	79.0	84.3	94.8	105.3	121.1	121.1	142.2
95°	168.5	173.8	173.8	184.3	189.6	189.6	194.9	215.9	237.0	263.3	310.7
97.5°	358.1	316.0	305.5	305.5	310.7	310.7	316.0	326.5	342.3	373.9	421.3
100°	632.0	537.2	468.7	431.8	421.3	416.0	421.3	421.3	447.6	489.8	542.4
102.5°	826.8	700.4	584.6	531.9	510.8	516.1	510.8	521.4	558.2	595.1	653.0
105°	1042.7	879.5	732.0	653.0	621.4	616.2	616.2	626.7	668.8	716.2	758.4
107.5°	1337.7	1132.3	916.4	800.5	753.1	742.6	742.6	758.4	784.7	816.3	863.7
110°	1811.6	1474.6	1174.4	990.1	926.9	890.0	869.0	884.8	900.6	926.9	963.8
112.5°	2254.0	1838.0	1443.0	1163.9	1079.6	1021.7	990.1	990.1	1011.2	1032.2	1058.5
115°	2559.5	2096.0	1669.5	1342.9	1221.8	1169.1	1100.7	1105.9	1121.7	1142.8	1158.6
117.5°	2833.3	2338.3	1859.0	1511.5	1374.5	1290.3	1221.8	1206.0	1237.6	1263.9	1274.5
120°	3028.2	2548.9	2048.6	1685.3	1527.3	1432.5	1337.7	1321.9	1353.5	1358.7	1411.4
122.5°	3191.4	2701.7	2211.9	1838.0	1669.5	1590.5	1474.6	1453.5	1474.6	1511.5	1553.6
125°	3296.8	2838.6	2359.4	1980.2	1822.2	1716.8	1595.7	1579.9	1595.7	1622.1	1669.5
127.5°	3381.0	2949.2	2501.5	2127.6	1943.3	1859.0	1737.9	1706.3	1727.4	1737.9	1790.6
130°	3444.2	3075.6	2633.2	2269.8	2106.6	2022.3	1859.0	1827.4	1838.0	1864.3	1890.6
132.5°	3507.4	3154.6	2764.9	2417.3	2259.3	2164.5	2006.5	1938.0	1943.3	1964.4	1990.7
135°	3549.6	3238.8	2901.8	2564.7	2390.9	2317.2	2148.7	2080.2	2053.9	2048.6	2080.2
137.5°	3591.7	3317.8	3007.1	2701.7	2554.2	2469.9	2269.8	2190.8	2164.5	2159.2	2169.8
140°	3628.6	3386.3	3101.9	2849.1	2701.7	2601.6	2417.3	2317.2	2275.1	2254.0	2264.6
142.5°	3644.4	3444.2	3202.0	3007.1	2828.1	2712.2	2559.5	2459.4	2369.9	2343.6	2322.5
145°	3654.9	3533.8	3296.8	3107.2	2970.3	2901.8	2717.5	2585.8	2480.5	2427.8	2417.3
147.5°	3654.9	3528.5	3360.0	3191.4	3075.6	3001.9	2801.7	2717.5	2633.2	2543.7	2501.5
150°	3644.4	3586.4	3407.4	3275.7	3154.6	3096.6	2954.5	2796.5	2706.9	2643.7	2596.3
152.5°	3618.0	3539.0	3433.7	3317.8	3228.3	3191.4	3028.2	2928.1	2833.3	2738.5	2701.7
155°	3591.7	3528.5	3449.5	3354.7	3281.0	3233.6	3117.7	3017.7	2949.2	2849.1	2812.3
157.5°	3560.1	3518.0	3449.5	3396.8	3312.6	3281.0	3165.1	3096.6	3038.7	2938.7	2891.3
160°	3512.7	3486.4	3444.2	3370.5	3333.6	3307.3	3212.5	3159.8	3101.9	3028.2	2991.3
162.5°	3465.3	3470.6	3417.9	3402.1	3344.2	3323.1	3259.9	3202.0	3144.0	3101.9	3070.3
165°	3428.4	3449.5	3396.8	3344.2	3344.2	3333.6	3265.2	3238.8	3212.5	3165.1	3128.2
167.5°	3360.0	3386.3	3386.3	3323.1	3317.8	3333.6	3291.5	3265.2	3244.1	3207.2	3186.2
170°	3349.4	3349.4	3312.6	3317.8	3333.6	3296.8	3270.4	3265.2	3265.2	3244.1	3228.3
172.5°	3286.2	3317.8	3302.0	3291.5	3275.7	3275.7	3259.9	3265.2	3254.6	3259.9	3254.6
175°	3265.2	3270.4	3275.7	3270.4	3254.6	3254.6	3249.4	3254.6	3259.9	3259.9	3249.4
177.5°	3233.6	3249.4	3275.7	3249.4	3259.9	3238.8	3233.6	3244.1	3244.1	3249.4	3238.8
180°	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6



TEST NUMBER: P508347

CATALOG NUMBER: ASYX-X-L3-X-U-F-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°	158.0	168.5	173.8	179.1	184.3	168.5	168.5	152.7	142.2
95°	337.1	363.4	363.4	363.4	379.2	389.7	384.4	379.2	379.2
97.5°	458.2	500.3	531.9	537.2	537.2	537.2	542.4	542.4	531.9
100°	579.3	600.4	621.4	626.7	621.4	621.4	616.2	626.7	621.4
102.5°	695.2	716.2	721.5	726.8	721.5	716.2	705.7	716.2	695.2
105°	795.2	816.3	811.0	805.8	800.5	790.0	779.4	795.2	790.0
107.5°	905.8	911.1	916.4	921.6	900.6	895.3	895.3	905.8	900.6
110°	995.4	1016.4	1011.2	1005.9	1005.9	995.4	990.1	995.4	990.1
112.5°	1090.1	1100.7	1095.4	1095.4	1090.1	1074.3	1058.5	1063.8	1058.5
115°	1190.2	1195.5	1190.2	1179.7	1169.1	1158.6	1137.5	1127.0	1121.7
117.5°	1295.5	1290.3	1279.7	1274.5	1263.9	1258.7	1227.1	1211.3	1206.0
120°	1416.7	1400.9	1379.8	1374.5	1358.7	1353.5	1311.3	1285.0	1279.7
122.5°	1564.1	1537.8	1495.7	1474.6	1469.3	1453.5	1400.9	1390.3	1374.5
125°	1690.5	1680.0	1653.7	1637.9	1616.8	1569.4	1511.5	1485.1	1495.7
127.5°	1811.6	1806.4	1795.8	1774.8	1748.4	1727.4	1680.0	1637.9	1627.3
130°	1911.7	1917.0	1901.2	1885.4	1869.6	1848.5	1795.8	1769.5	1769.5
132.5°	2006.5	2011.8	2022.3	1980.2	1969.6	1948.6	1901.2	1869.6	1880.1
135°	2080.2	2090.8	2075.0	2059.2	2048.6	2027.6	1980.2	1964.4	1969.6
137.5°	2180.3	2169.8	2154.0	2143.4	2117.1	2111.8	2075.0	2048.6	2038.1
140°	2243.5	2248.8	2248.8	2222.4	2196.1	2185.6	2148.7	2122.4	2127.6
142.5°	2327.8	2306.7	2317.2	2290.9	2275.1	2259.3	2211.9	2206.6	2206.6
145°	2390.9	2380.4	2375.2	2354.1	2348.8	2317.2	2301.4	2275.1	2290.9
147.5°	2459.4	2459.4	2459.4	2412.0	2401.5	2385.7	2369.9	2348.8	2364.6
150°	2559.5	2522.6	2512.1	2485.7	2464.7	2454.1	2417.3	2406.7	2422.5
152.5°	2638.5	2596.3	2564.7	2548.9	2543.7	2527.9	2506.8	2491.0	2491.0
155°	2733.3	2675.3	2675.3	2617.4	2601.6	2591.1	2570.0	2564.7	2570.0
157.5°	2833.3	2780.7	2754.3	2722.7	2696.4	2685.9	2659.5	2649.0	2659.5
160°	2907.1	2901.8	2843.9	2828.1	2801.7	2785.9	2780.7	2754.3	2754.3
162.5°	3022.9	2949.2	2938.7	2922.9	2901.8	2880.7	2870.2	2859.7	2870.2
165°	3086.1	3065.0	3038.7	3017.7	3001.9	2996.6	2965.0	2975.5	2970.3
167.5°	3159.8	3144.0	3117.7	3101.9	3107.2	3086.1	3086.1	3059.8	3065.0
170°	3212.5	3223.0	3191.4	3175.6	3165.1	3165.1	3144.0	3144.0	3154.6
172.5°	3249.4	3265.2	3238.8	3228.3	3217.8	3228.3	3207.2	3202.0	3212.5
175°	3259.9	3281.0	3259.9	3254.6	3244.1	3275.7	3238.8	3238.8	3217.8
177.5°	3249.4	3254.6	3275.7	3244.1	3244.1	3254.6	3259.9	3217.8	3244.1
180°	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6

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