

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: P508445

Luminaire Tested: **ASYX-X-S3-X-U-F-L35-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508445
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-S3-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

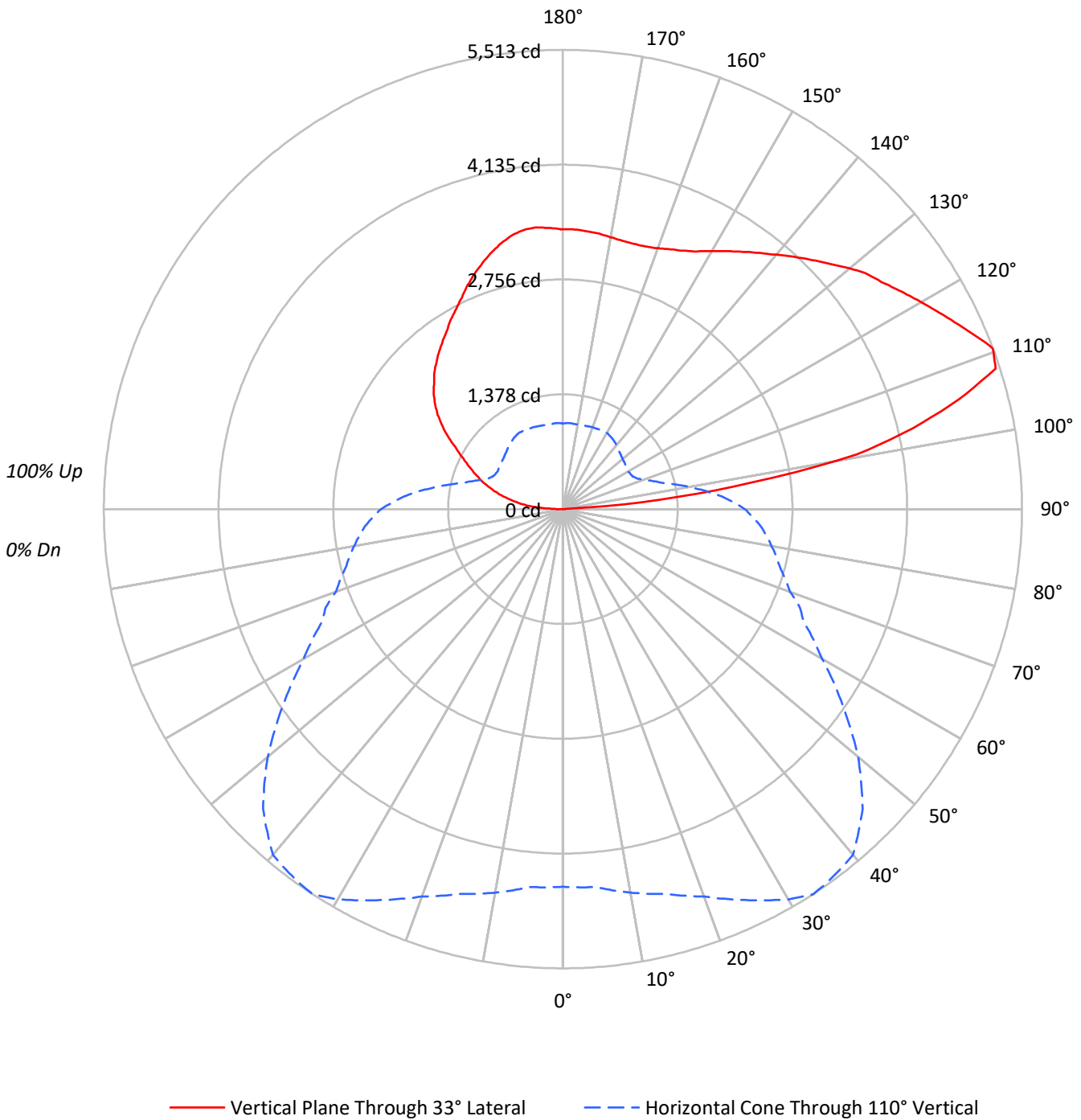
Lumens per Lamp: N/A
Luminaire Lumens: 15952.3 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
N/A
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
CIE Type: Indirect

Input Watts (W): 160.2
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: P508445
CATALOG NUMBER: ASYX-X-S3-X-U-F-L35-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot





TEST NUMBER: P508445

CATALOG NUMBER: ASYX-X-S3-X-U-F-L35-1-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°	77526	29756	64913
100°	196821	63342	53391
105°	191246	70124	45537
110°	190206	91658	43187
115°	165831	103923	39600
120°	137810	102140	38185
125°	117392	95200	38901
130°	100351	87272	41069
135°	86334	80222	41555
140°	75281	74050	41436
145°	66182	68291	41723
150°	58062	63778	41732
155°	53315	59817	42305
160°	49330	55768	43728
165°	47665	52790	45876
170°	47470	50421	47789
175°	48582	48820	48189



TEST NUMBER: P508445

CATALOG NUMBER: ASYX-X-S3-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°	579.1	3.6
100°-110°	2135.7	13.4
110°-120°	2897.8	18.2
120°-130°	2885.0	18.1
130°-140°	2568.3	16.1
140°-150°	2087.0	13.1
150°-160°	1532.4	9.6
160°-170°	945.7	5.9
170°-180°	321.3	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°	5612.6	35.2
90°-150°	13152.9	82.5
90°-180°	15952.0	100.0
0°-180°	15952.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	471	695	181	274	394	780
105°	3449	4631	1265	744	821	3671
115°	4883	5026	3060	1188	1166	4775
125°	4692	4692	3805	1686	1555	4193
135°	4254	4270	3952	2130	2047	3314
145°	3777	3788	3898	2524	2381	2376
155°	3367	3482	3777	2962	2672	1554
165°	3208	3323	3553	3290	3088	916
175°	3372	3339	3389	3389	3345	317
180°	3361	3361	3361	3361	3361	



TEST NUMBER: P508445

CATALOG NUMBER: ASYX-X-S3-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°	27.4	27.4	27.4	32.8	38.3	38.3	49.3	54.7	49.3	71.2	82.1
95°	470.8	542.0	777.4	925.2	914.2	865.0	919.7	1078.5	1160.6	1056.6	897.8
97.5°	1182.5	1226.3	1713.5	1943.4	2146.0	2244.5	2332.1	2260.9	2299.3	2277.4	2074.8
100°	2381.4	2523.7	2693.4	2928.8	3219.0	3427.0	3585.7	3711.7	3591.2	3399.6	2841.2
102.5°	3049.3	3098.5	3213.5	3333.9	3646.0	3799.3	3958.0	4231.7	4313.8	4275.5	3974.4
105°	3448.9	3476.3	3585.7	3766.4	4007.3	4177.0	4374.1	4729.9	4937.9	4959.8	4981.7
107.5°	3952.5	4012.8	4144.1	4259.1	4543.8	4740.9	4916.0	5282.8	5463.5	5474.4	5397.8
110°	4532.8	4554.7	4675.2	4784.6	4948.9	5063.8	5178.8	5408.7	5512.7	5496.3	5419.7
112.5°	4844.9	4872.2	4916.0	4954.4	5031.0	5080.3	5151.4	5299.2	5359.5	5375.9	5299.2
115°	4883.2	4883.2	4916.0	4921.5	5009.1	5009.1	5041.9	5184.3	5211.7	5233.6	5189.8
117.5°	4850.3	4861.3	4883.2	4872.2	4910.6	4965.3	4954.4	5041.9	5074.8	5058.4	5074.8
120°	4801.1	4790.1	4833.9	4812.0	4839.4	4872.2	4850.3	4916.0	4943.4	4932.5	4987.2
122.5°	4751.8	4751.8	4768.2	4762.8	4751.8	4740.9	4746.3	4790.1	4817.5	4812.0	4844.9
125°	4691.6	4686.1	4680.6	4658.7	4686.1	4669.7	4642.3	4675.2	4697.1	4686.1	4719.0
127.5°	4593.0	4598.5	4587.6	4576.6	4543.8	4538.3	4565.7	4549.2	4604.0	4571.1	4604.0
130°	4494.5	4494.5	4483.6	4461.7	4450.7	4428.8	4423.3	4434.3	4467.1	4478.1	4428.8
132.5°	4417.9	4379.5	4352.2	4335.7	4335.7	4313.8	4302.9	4313.8	4330.3	4357.6	4363.1
135°	4253.6	4231.7	4231.7	4209.8	4242.7	4193.4	4182.5	4198.9	4204.4	4204.4	4237.2
137.5°	4160.6	4105.8	4083.9	4078.4	4073.0	4056.5	4056.5	4078.4	4083.9	4078.4	4105.8
140°	4018.2	3958.0	3979.9	3952.5	3958.0	3930.6	3941.6	3941.6	3963.5	3963.5	3990.9
142.5°	3936.1	3848.5	3837.6	3821.1	3826.6	3815.7	3870.4	3832.1	3854.0	3892.3	3875.9
145°	3777.4	3706.2	3722.6	3706.2	3711.7	3700.7	3728.1	3722.6	3750.0	3744.5	3771.9
147.5°	3607.6	3602.2	3607.6	3596.7	3607.6	3596.7	3629.5	3624.1	3651.4	3667.9	3673.3
150°	3503.6	3481.7	3487.2	3498.2	3487.2	3509.1	3509.1	3531.0	3558.4	3563.9	3585.7
152.5°	3394.1	3388.7	3416.0	3399.6	3410.6	3410.6	3427.0	3432.5	3470.8	3476.3	3531.0
155°	3366.8	3317.5	3317.5	3312.0	3339.4	3339.4	3361.3	3394.1	3410.6	3437.9	3443.4
157.5°	3268.2	3262.8	3262.8	3284.7	3257.3	3290.1	3339.4	3323.0	3366.8	3372.2	3394.1
160°	3229.9	3213.5	3224.4	3235.4	3235.4	3262.8	3301.1	3295.6	3323.0	3355.8	3361.3
162.5°	3251.8	3197.1	3202.5	3229.9	3219.0	3257.3	3262.8	3273.7	3301.1	3312.0	3344.9
165°	3208.0	3191.6	3180.6	3191.6	3224.4	3240.9	3257.3	3268.2	3295.6	3301.1	3317.5
167.5°	3224.4	3219.0	3219.0	3229.9	3251.8	3251.8	3279.2	3273.7	3301.1	3301.1	3312.0
170°	3257.3	3240.9	3251.8	3273.7	3235.4	3295.6	3290.1	3273.7	3317.5	3317.5	3333.9
172.5°	3301.1	3284.7	3290.1	3290.1	3290.1	3323.0	3328.5	3333.9	3339.4	3333.9	3333.9
175°	3372.2	3328.5	3323.0	3323.0	3333.9	3333.9	3344.9	3317.5	3350.3	3350.3	3344.9
177.5°	3355.8	3339.4	3366.8	3339.4	3328.5	3350.3	3366.8	3344.9	3361.3	3344.9	3361.3
180°	3361.3	3361.3	3361.3	3361.3	3361.3	3361.3	3361.3	3361.3	3361.3	3361.3	3361.3



TEST NUMBER: P508445

CATALOG NUMBER: ASYX-X-S3-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°	71.2	71.2	71.2	65.7	60.2	60.2	60.2	60.2	54.7	49.3	49.3
95°	695.3	552.9	503.6	416.1	350.4	323.0	279.2	279.2	208.0	169.7	180.7
97.5°	1746.3	1357.7	1078.5	815.7	777.4	728.1	722.6	613.1	542.0	492.7	427.0
100°	2266.4	1861.3	1615.0	1478.1	1297.4	1215.3	1155.1	1040.1	969.0	870.4	766.4
102.5°	3366.8	2797.4	2315.7	1910.6	1636.9	1521.9	1445.2	1324.8	1237.2	1138.7	1007.3
105°	4631.4	3832.1	3027.4	2419.7	2052.9	1905.1	1773.7	1653.3	1538.3	1385.0	1264.6
107.5°	4970.8	4390.5	3782.8	3104.0	2594.9	2447.1	2293.8	2091.2	1937.9	1806.6	1598.5
110°	5091.2	4625.9	4100.3	3596.7	3186.1	3082.1	2901.4	2698.9	2545.6	2386.8	2184.3
112.5°	5041.9	4751.8	4330.3	3881.4	3547.4	3443.4	3312.0	3186.1	3104.0	2983.6	2715.3
115°	5025.5	4790.1	4494.5	4094.9	3793.8	3678.8	3574.8	3459.8	3437.9	3355.8	3060.2
117.5°	4954.4	4795.6	4571.1	4248.2	3979.9	3903.3	3799.3	3706.2	3695.2	3613.1	3355.8
120°	4905.1	4773.7	4582.1	4368.6	4138.7	4056.5	3969.0	3897.8	3864.9	3804.7	3558.4
122.5°	4790.1	4740.9	4593.0	4412.4	4204.4	4166.0	4083.9	3963.5	4018.2	3952.5	3717.1
125°	4691.6	4664.2	4625.9	4406.9	4259.1	4209.8	4149.6	4078.4	4094.9	4051.1	3804.7
127.5°	4587.6	4582.1	4554.7	4423.3	4286.5	4264.6	4193.4	4138.7	4127.7	4083.9	3864.9
130°	4505.5	4500.0	4461.7	4374.1	4286.5	4281.0	4209.8	4166.0	4160.6	4122.2	3908.7
132.5°	4385.0	4385.0	4406.9	4319.3	4264.6	4248.2	4215.3	4160.6	4177.0	4094.9	3930.6
135°	4270.1	4275.5	4292.0	4248.2	4281.0	4220.8	4187.9	416.8	4149.6	4116.8	3952.5
137.5°	4138.7	4155.1	4187.9	4171.5	4187.9	4193.4	4149.6	4133.2	4133.2	4100.3	3947.1
140°	3979.9	4045.6	4105.8	4100.3	4133.2	4127.7	4111.3	4034.7	4105.8	4083.9	3952.5
142.5°	3908.7	3947.1	4018.2	4001.8	4073.0	4073.0	4062.0	4056.5	4073.0	4034.7	3930.6
145°	3788.3	3848.5	3903.3	3936.1	3979.9	4023.7	4007.3	4018.2	4023.7	4023.7	3897.8
147.5°	3711.7	3777.4	3848.5	3859.5	3936.1	3947.1	3952.5	3969.0	4001.8	3958.0	3908.7
150°	3629.5	3673.3	3755.5	3788.3	3870.4	3886.8	3881.4	3903.3	3958.0	3925.2	3848.5
152.5°	3503.6	3596.7	3667.9	3717.1	3777.4	3815.7	3821.1	3821.1	3870.4	3870.4	3826.6
155°	3481.7	3531.0	3596.7	3646.0	3711.7	3750.0	3755.5	3755.5	3804.7	3788.3	3777.4
157.5°	3432.5	3498.2	3552.9	3569.3	3651.4	3684.3	3684.3	3695.2	3739.0	3750.0	3711.7
160°	3399.6	3432.5	3498.2	3547.4	3591.2	3629.5	3635.0	3646.0	3673.3	3667.9	3651.4
162.5°	3350.3	3399.6	3459.8	3487.2	3536.5	3574.8	3569.3	3569.3	3618.6	3629.5	3607.6
165°	3323.0	3377.7	3448.9	3465.3	3498.2	3520.1	3514.6	3531.0	3574.8	3563.9	3552.9
167.5°	3333.9	3361.3	3421.5	3416.0	3454.4	3470.8	3470.8	3459.8	3487.2	3448.9	3481.7
170°	3350.3	3350.3	3383.2	3394.1	3427.0	3443.4	3427.0	3427.0	3443.4	3454.4	3459.8
172.5°	3355.8	3350.3	3377.7	3372.2	3383.2	3410.6	3394.1	3372.2	3405.1	3427.0	3399.6
175°	3339.4	3344.9	3388.7	3377.7	3361.3	3388.7	3361.3	3355.8	3405.1	3399.6	3388.7
177.5°	3323.0	3323.0	3350.3	3328.5	3366.8	3366.8	3339.4	3339.4	3394.1	3355.8	3344.9
180°	3361.3	3361.3	3361.3	3361.3	3361.3	3361.3	3361.3	3361.3	3361.3	3361.3	3361.3



TEST NUMBER: P508445

CATALOG NUMBER: ASYX-X-S3-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°	54.7	60.2	65.7	76.6	82.1	87.6	98.5	109.5	125.9	125.9	147.8
95°	175.2	180.7	180.7	191.6	197.1	197.1	202.6	224.5	246.3	273.7	323.0
97.5°	372.3	328.5	317.5	317.5	323.0	323.0	328.5	339.4	355.8	388.7	438.0
100°	656.9	558.4	487.2	448.9	438.0	432.5	438.0	438.0	465.3	509.1	563.9
102.5°	859.5	728.1	607.7	552.9	531.0	536.5	531.0	542.0	580.3	618.6	678.8
105°	1083.9	914.2	760.9	678.8	646.0	640.5	640.5	651.5	695.3	744.5	788.3
107.5°	1390.5	1177.0	952.6	832.1	782.8	771.9	771.9	788.3	815.7	848.5	897.8
110°	1883.2	1532.8	1220.8	1029.2	963.5	925.2	903.3	919.7	936.1	963.5	1001.8
112.5°	2343.1	1910.6	1500.0	1209.8	1122.3	1062.0	1029.2	1029.2	1051.1	1073.0	1100.4
115°	2660.6	2178.8	1735.4	1396.0	1270.1	1215.3	1144.2	1149.6	1166.1	1188.0	1204.4
117.5°	2945.2	2430.6	1932.5	1571.2	1428.8	1341.2	1270.1	1253.6	1286.5	1313.9	1324.8
120°	3147.8	2649.6	2129.6	1751.8	1587.6	1489.0	1390.5	1374.1	1406.9	1412.4	1467.1
122.5°	3317.5	2808.4	2299.3	1910.6	1735.4	1653.3	1532.8	1510.9	1532.8	1571.2	1615.0
125°	3427.0	2950.7	2452.5	2058.4	1894.2	1784.7	1658.8	1642.3	1658.8	1686.1	1735.4
127.5°	3514.6	3065.7	2600.4	2211.7	2020.1	1932.5	1806.6	1773.7	1795.6	1806.6	1861.3
130°	3580.3	3197.1	2737.2	2359.5	2189.8	2102.2	1932.5	1899.6	1910.6	1937.9	1965.3
132.5°	3646.0	3279.2	2874.1	2512.8	2348.5	2250.0	2085.8	2014.6	2020.1	2042.0	2069.3
135°	3689.8	3366.8	3016.4	2666.0	2485.4	2408.7	2233.6	2162.4	2135.0	2129.6	2162.4
137.5°	3733.6	3448.9	3125.9	2808.4	2655.1	2567.5	2359.5	2277.4	2250.0	2244.5	2255.5
140°	3771.9	3520.1	3224.4	2961.7	2808.4	2704.4	2512.8	2408.7	2365.0	2343.1	2354.0
142.5°	3788.3	3580.3	3328.5	3125.9	2939.8	2819.3	2660.6	2556.6	2463.5	2436.1	2414.2
145°	3799.3	3673.3	3427.0	3229.9	3087.6	3016.4	2824.8	2687.9	2578.5	2523.7	2512.8
147.5°	3799.3	3667.9	3492.7	3317.5	3197.1	3120.4	2912.4	2824.8	2737.2	2644.1	2600.4
150°	3788.3	3728.1	3542.0	3405.1	3279.2	3219.0	3071.2	2906.9	2813.9	2748.2	2698.9
152.5°	3760.9	3678.8	3569.3	3448.9	3355.8	3317.5	3147.8	3043.8	2945.2	2846.7	2808.4
155°	3733.6	3667.9	3585.7	3487.2	3410.6	3361.3	3240.9	3136.8	3065.7	2961.7	2923.3
157.5°	3700.7	3656.9	3585.7	3531.0	3443.4	3410.6	3290.1	3219.0	3158.7	3054.7	3005.5
160°	3651.4	3624.1	3580.3	3503.6	3465.3	3437.9	3339.4	3284.7	3224.4	3147.8	3109.5
162.5°	3602.2	3607.6	3552.9	3536.5	3476.3	3454.4	3388.7	3328.5	3268.2	3224.4	3191.6
165°	3563.9	3585.7	3531.0	3476.3	3476.3	3465.3	3394.1	3366.8	3339.4	3290.1	3251.8
167.5°	3492.7	3520.1	3520.1	3454.4	3448.9	3465.3	3421.5	3394.1	3372.2	3333.9	3312.0
170°	3481.7	3481.7	3443.4	3448.9	3465.3	3427.0	3399.6	3394.1	3394.1	3372.2	3355.8
172.5°	3416.0	3448.9	3432.5	3421.5	3405.1	3405.1	3388.7	3394.1	3383.2	3388.7	3383.2
175°	3394.1	3399.6	3405.1	3399.6	3383.2	3383.2	3377.7	3383.2	3388.7	3388.7	3377.7
177.5°	3361.3	3377.7	3405.1	3377.7	3388.7	3366.8	3361.3	3372.2	3372.2	3377.7	3366.8
180°	3361.3	3361.3	3361.3	3361.3	3361.3	3361.3	3361.3	3361.3	3361.3	3361.3	3361.3



TEST NUMBER: P508445

CATALOG NUMBER: ASYX-X-S3-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°	164.2	175.2	180.7	186.1	191.6	175.2	175.2	158.8	147.8
95°	350.4	377.7	377.7	377.7	394.2	405.1	399.6	394.2	394.2
97.5°	476.3	520.1	552.9	558.4	558.4	558.4	563.9	563.9	552.9
100°	602.2	624.1	646.0	651.5	646.0	646.0	640.5	651.5	646.0
102.5°	722.6	744.5	750.0	755.5	750.0	744.5	733.6	744.5	722.6
105°	826.6	848.5	843.1	837.6	832.1	821.2	810.2	826.6	821.2
107.5°	941.6	947.1	952.6	958.0	936.1	930.7	930.7	941.6	936.1
110°	1034.7	1056.6	1051.1	1045.6	1045.6	1034.7	1029.2	1034.7	1029.2
112.5°	1133.2	1144.2	1138.7	1138.7	1133.2	1116.8	1100.4	1105.8	1100.4
115°	1237.2	1242.7	1237.2	1226.3	1215.3	1204.4	1182.5	1171.5	1166.1
117.5°	1346.7	1341.2	1330.3	1324.8	1313.9	1308.4	1275.5	1259.1	1253.6
120°	1472.6	1456.2	1434.3	1428.8	1412.4	1406.9	1363.1	1335.8	1330.3
122.5°	1625.9	1598.5	1554.7	1532.8	1527.4	1510.9	1456.2	1445.2	1428.8
125°	1757.3	1746.3	1719.0	1702.5	1680.6	1631.4	1571.2	1543.8	1554.7
127.5°	1883.2	1877.7	1866.8	1844.9	1817.5	1795.6	1746.3	1702.5	1691.6
130°	1987.2	1992.7	1976.3	1959.8	1943.4	1921.5	1866.8	1839.4	1839.4
132.5°	2085.8	2091.2	2102.2	2058.4	2047.4	2025.5	1976.3	1943.4	1954.4
135°	2162.4	2173.3	2156.9	2140.5	2129.6	2107.7	2058.4	2042.0	2047.4
137.5°	2266.4	2255.5	2239.0	2228.1	2200.7	2195.2	2156.9	2129.6	2118.6
140°	2332.1	2337.6	2337.6	2310.2	2282.8	2271.9	2233.6	2206.2	2211.7
142.5°	2419.7	2397.8	2408.7	2381.4	2365.0	2348.5	2299.3	2293.8	2293.8
145°	2485.4	2474.4	2469.0	2447.1	2441.6	2408.7	2392.3	2365.0	2381.4
147.5°	2556.6	2556.6	2556.6	2507.3	2496.3	2479.9	2463.5	2441.6	2458.0
150°	2660.6	2622.3	2611.3	2583.9	2562.0	2551.1	2512.8	2501.8	2518.2
152.5°	2742.7	2698.9	2666.0	2649.6	2644.1	2627.7	2605.8	2589.4	2589.4
155°	2841.2	2781.0	2781.0	2720.8	2704.4	2693.4	2671.5	2666.0	2671.5
157.5°	2945.2	2890.5	2863.1	2830.3	2802.9	2792.0	2764.6	2753.6	2764.6
160°	3021.9	3016.4	2956.2	2939.8	2912.4	2896.0	2890.5	2863.1	2863.1
162.5°	3142.3	3065.7	3054.7	3038.3	3016.4	2994.5	2983.6	2972.6	2983.6
165°	3208.0	3186.1	3158.7	3136.8	3120.4	3114.9	3082.1	3093.1	3087.6
167.5°	3284.7	3268.2	3240.9	3224.4	3229.9	3208.0	3208.0	3180.6	3186.1
170°	3339.4	3350.3	3317.5	3301.1	3290.1	3290.1	3268.2	3268.2	3279.2
172.5°	3377.7	3394.1	3366.8	3355.8	3344.9	3355.8	3333.9	3328.5	3339.4
175°	3388.7	3410.6	3388.7	3383.2	3372.2	3405.1	3366.8	3366.8	3344.9
177.5°	3377.7	3383.2	3405.1	3372.2	3372.2	3383.2	3388.7	3344.9	3372.2
180°	3361.3	3361.3	3361.3	3361.3	3361.3	3361.3	3361.3	3361.3	3361.3

(END OF REPORT)