

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: P508446

Luminaire Tested: **ASYX-X-S3-X-U-F-L40-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P508446  
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-L40-1-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: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

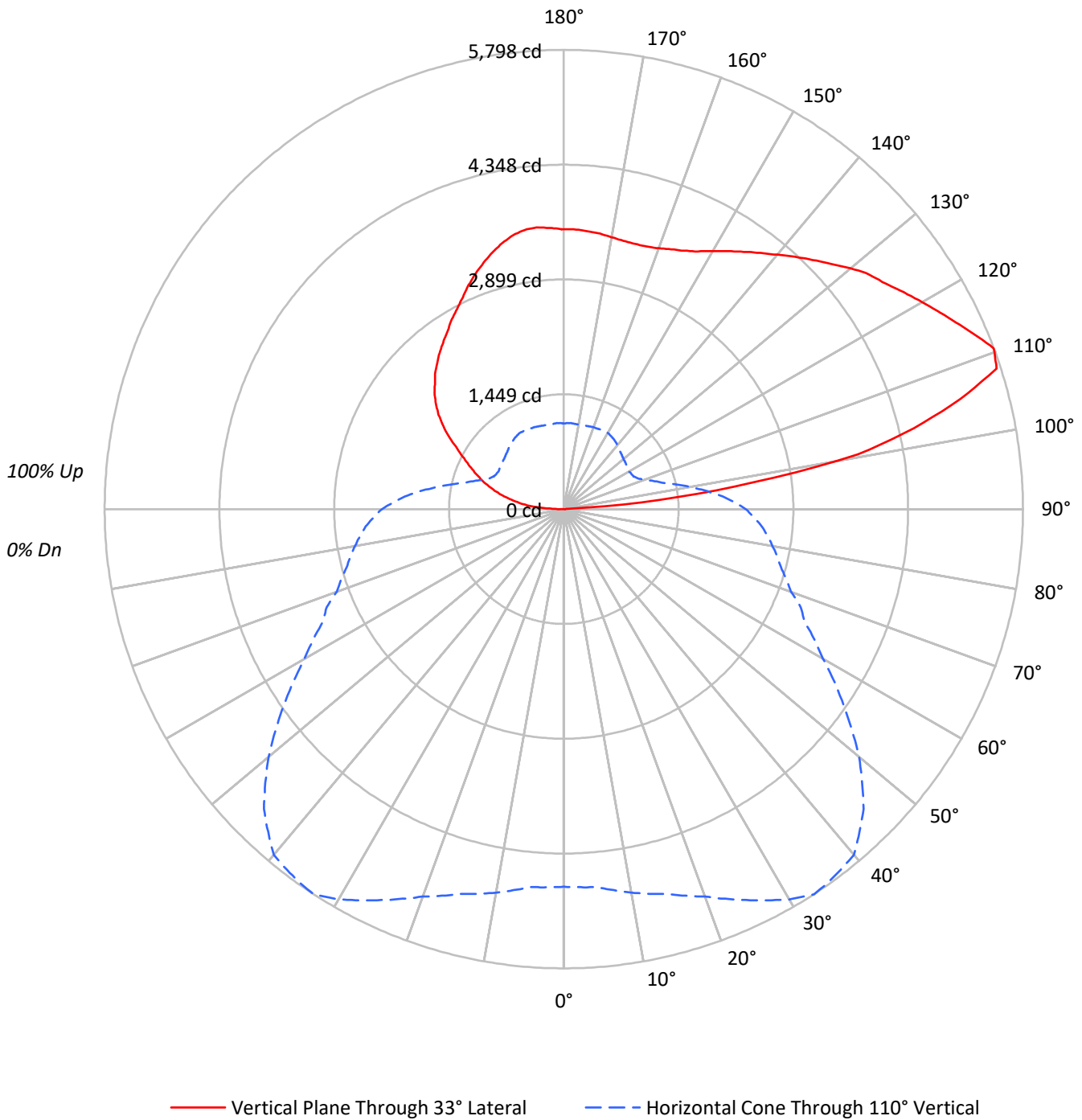
Lumens per Lamp: N/A  
Luminaire Lumens: 16777.4 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
N/A  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
CIE Type: Indirect

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: P508446  
CATALOG NUMBER: ASYX-X-S3-X-U-F-L40-1-UNV-X-X-X-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P508446

CATALOG NUMBER: ASYX-X-S3-X-U-F-L40-1-UNV-X-X-X-STD

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20								20				20				20			
RC	80								50				30				10			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	81544	31287	68255
100°	206995	66624	56152
105°	201139	73750	47888
110°	200046	96400	45420
115°	174409	109299	41648
120°	144937	107421	40159
125°	123465	100125	40916
130°	105542	91786	43193
135°	90799	84373	43705
140°	79176	77882	43580
145°	69603	71823	43880
150°	61067	67077	43891
155°	56072	62910	44493
160°	51882	58653	45990
165°	50130	55521	48249
170°	49925	53029	50260
175°	51096	51344	50681



TEST NUMBER: P508446

CATALOG NUMBER: ASYX-X-S3-X-U-F-L40-1-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°	609.0	3.6
100°-110°	2246.1	13.4
110°-120°	3047.7	18.2
120°-130°	3034.2	18.1
130°-140°	2701.1	16.1
140°-150°	2195.0	13.1
150°-160°	1611.7	9.6
160°-170°	994.6	5.9
170°-180°	337.9	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°	5902.9	35.2
90°-150°	13833.2	82.5
90°-180°	16777.0	100.0
0°-180°	16777.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	495	731	190	288	414	820
105°	3627	4871	1330	783	864	3860
115°	5136	5286	3218	1249	1226	5022
125°	4934	4934	4002	1773	1635	4410
135°	4474	4491	4157	2240	2153	3485
145°	3973	3984	4099	2654	2504	2498
155°	3541	3662	3973	3115	2810	1634
165°	3374	3495	3737	3460	3247	964
175°	3547	3512	3564	3564	3518	333
180°	3535	3535	3535	3535	3535	



TEST NUMBER: P508446

CATALOG NUMBER: ASYX-X-S3-X-U-F-L40-1-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°	28.8	28.8	28.8	34.5	40.3	40.3	51.8	57.6	51.8	74.8	86.4
95°	495.2	570.0	817.6	973.0	961.5	909.7	967.3	1134.2	1220.6	1111.2	944.2
97.5°	1243.6	1289.7	1802.1	2043.9	2257.0	2360.6	2452.7	2377.9	2418.2	2395.2	2182.1
100°	2504.5	2654.2	2832.7	3080.3	3385.5	3604.2	3771.2	3903.6	3777.0	3575.5	2988.2
102.5°	3207.0	3258.8	3379.7	3506.4	3834.6	3995.8	4162.7	4450.6	4537.0	4496.7	4180.0
105°	3627.3	3656.1	3771.2	3961.2	4214.6	4393.0	4600.3	4974.6	5193.3	5216.4	5239.4
107.5°	4157.0	4220.3	4358.5	4479.4	4778.8	4986.1	5170.3	5556.1	5746.1	5757.6	5677.0
110°	4767.3	4790.3	4917.0	5032.1	5204.9	5325.8	5446.7	5688.5	5797.9	5780.6	5700.0
112.5°	5095.5	5124.3	5170.3	5210.6	5291.2	5343.0	5417.9	5573.3	5636.7	5653.9	5573.3
115°	5135.8	5135.8	5170.3	5176.1	5268.2	5268.2	5302.7	5452.4	5481.2	5504.3	5458.2
117.5°	5101.2	5112.7	5135.8	5124.3	5164.6	5222.1	5210.6	5302.7	5337.3	5320.0	5337.3
120°	5049.4	5037.9	5083.9	5060.9	5089.7	5124.3	5101.2	5170.3	5199.1	5187.6	5245.2
122.5°	4997.6	4997.6	5014.9	5009.1	4997.6	4986.1	4991.8	5037.9	5066.7	5060.9	5095.5
125°	4934.3	4928.5	4922.7	4899.7	4928.5	4911.2	4882.4	4917.0	4940.0	4928.5	4963.0
127.5°	4830.6	4836.4	4824.9	4813.3	4778.8	4773.0	4801.8	4784.6	4842.1	4807.6	4842.1
130°	4727.0	4727.0	4715.5	4692.4	4680.9	4657.9	4652.1	4663.6	4698.2	4709.7	4657.9
132.5°	4646.4	4606.1	4577.3	4560.0	4560.0	4537.0	4525.5	4537.0	4554.3	4583.0	4588.8
135°	4473.6	4450.6	4450.6	4427.6	4462.1	4410.3	4398.8	4416.1	4421.8	4421.8	4456.4
137.5°	4375.8	4318.2	4295.2	4289.4	4283.6	4266.4	4266.4	4289.4	4295.2	4289.4	4318.2
140°	4226.1	4162.7	4185.8	4157.0	4162.7	4133.9	4145.5	4145.5	4168.5	4168.5	4197.3
142.5°	4139.7	4047.6	4036.1	4018.8	4024.6	4013.0	4070.6	4030.3	4053.3	4093.6	4076.4
145°	3972.7	3897.9	3915.2	3897.9	3903.6	3892.1	3920.9	3915.2	3943.9	3938.2	3967.0
147.5°	3794.2	3788.5	3794.2	3782.7	3794.2	3782.7	3817.3	3811.5	3840.3	3857.6	3863.3
150°	3684.9	3661.8	3667.6	3679.1	3667.6	3690.6	3690.6	3713.6	3742.4	3748.2	3771.2
152.5°	3569.7	3563.9	3592.7	3575.5	3587.0	3587.0	3604.2	3610.0	3650.3	3656.1	3713.6
155°	3540.9	3489.1	3489.1	3483.3	3512.1	3512.1	3535.2	3569.7	3587.0	3615.8	3621.5
157.5°	3437.3	3431.5	3431.5	3454.6	3425.8	3460.3	3512.1	3494.9	3540.9	3546.7	3569.7
160°	3397.0	3379.7	3391.2	3402.7	3402.7	3431.5	3471.8	3466.1	3494.9	3529.4	3535.2
162.5°	3420.0	3362.4	3368.2	3397.0	3385.5	3425.8	3431.5	3443.0	3471.8	3483.3	3517.9
165°	3373.9	3356.7	3345.2	3356.7	3391.2	3408.5	3425.8	3437.3	3466.1	3471.8	3489.1
167.5°	3391.2	3385.5	3385.5	3397.0	3420.0	3420.0	3448.8	3443.0	3471.8	3471.8	3483.3
170°	3425.8	3408.5	3420.0	3443.0	3402.7	3466.1	3460.3	3443.0	3489.1	3489.1	3506.4
172.5°	3471.8	3454.6	3460.3	3460.3	3460.3	3494.9	3500.6	3506.4	3512.1	3506.4	3506.4
175°	3546.7	3500.6	3494.9	3494.9	3506.4	3506.4	3517.9	3489.1	3523.6	3523.6	3517.9
177.5°	3529.4	3512.1	3540.9	3512.1	3500.6	3523.6	3540.9	3517.9	3535.2	3517.9	3535.2
180°	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2



TEST NUMBER: P508446

CATALOG NUMBER: ASYX-X-S3-X-U-F-L40-1-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°	74.8	74.8	74.8	69.1	63.3	63.3	63.3	63.3	57.6	51.8	51.8
95°	731.2	581.5	529.7	437.6	368.5	339.7	293.6	293.6	218.8	178.5	190.0
97.5°	1836.7	1427.9	1134.2	857.9	817.6	765.8	760.0	644.8	570.0	518.2	449.1
100°	2383.6	1957.6	1698.5	1554.5	1364.5	1278.2	1214.9	1093.9	1019.1	915.5	806.1
102.5°	3540.9	2942.1	2435.5	2009.4	1721.5	1600.6	1520.0	1393.3	1301.2	1197.6	1059.4
105°	4870.9	4030.3	3183.9	2544.9	2159.1	2003.6	1865.5	1738.8	1617.9	1456.7	1330.0
107.5°	5227.9	4617.6	3978.5	3264.6	2729.1	2573.6	2412.4	2199.4	2038.2	1900.0	1681.2
110°	5354.6	4865.2	4312.4	3782.7	3350.9	3241.5	3051.5	2838.5	2677.3	2510.3	2297.3
112.5°	5302.7	4997.6	4554.3	4082.1	3730.9	3621.5	3483.3	3350.9	3264.6	3137.9	2855.8
115°	5285.5	5037.9	4727.0	4306.7	3990.0	3869.1	3759.7	3638.8	3615.8	3529.4	3218.5
117.5°	5210.6	5043.6	4807.6	4467.9	4185.8	4105.2	3995.8	3897.9	3886.4	3800.0	3529.4
120°	5158.8	5020.6	4819.1	4594.6	4352.7	4266.4	4174.2	4099.4	4064.9	4001.5	3742.4
122.5°	5037.9	4986.1	4830.6	4640.6	4421.8	4381.5	4295.2	4168.5	4226.1	4157.0	3909.4
125°	4934.3	4905.5	4865.2	4634.9	4479.4	4427.6	4364.3	4289.4	4306.7	4260.6	4001.5
127.5°	4824.9	4819.1	4790.3	4652.1	4508.2	4485.2	4410.3	4352.7	4341.2	4295.2	4064.9
130°	4738.5	4732.7	4692.4	4600.3	4508.2	4502.4	4427.6	4381.5	4375.8	4335.5	4110.9
132.5°	4611.8	4611.8	4634.9	4542.7	4485.2	4467.9	4433.3	4375.8	4393.0	4306.7	4133.9
135°	4490.9	4496.7	4513.9	4467.9	4502.4	4439.1	4404.6	4329.7	4364.3	4329.7	4157.0
137.5°	4352.7	4370.0	4404.6	4387.3	4404.6	4410.3	4364.3	4347.0	4347.0	4312.4	4151.2
140°	4185.8	4254.9	4318.2	4312.4	4347.0	4341.2	4323.9	4243.3	4318.2	4295.2	4157.0
142.5°	4110.9	4151.2	4226.1	4208.8	4283.6	4283.6	4272.1	4266.4	4283.6	4243.3	4133.9
145°	3984.2	4047.6	4105.2	4139.7	4185.8	4231.8	4214.6	4226.1	4231.8	4231.8	4099.4
147.5°	3903.6	3972.7	4047.6	4059.1	4139.7	4151.2	4157.0	4174.2	4208.8	4162.7	4110.9
150°	3817.3	3863.3	3949.7	3984.2	4070.6	4087.9	4082.1	4105.2	4162.7	4128.2	4047.6
152.5°	3684.9	3782.7	3857.6	3909.4	3972.7	4013.0	4018.8	4018.8	4070.6	4070.6	4024.6
155°	3661.8	3713.6	3782.7	3834.6	3903.6	3943.9	3949.7	3949.7	4001.5	3984.2	3972.7
157.5°	3610.0	3679.1	3736.7	3753.9	3840.3	3874.9	3874.9	3886.4	3932.4	3943.9	3903.6
160°	3575.5	3610.0	3679.1	3730.9	3777.0	3817.3	3823.0	3834.6	3863.3	3857.6	3840.3
162.5°	3523.6	3575.5	3638.8	3667.6	3719.4	3759.7	3753.9	3753.9	3805.8	3817.3	3794.2
165°	3494.9	3552.4	3627.3	3644.6	3679.1	3702.1	3696.4	3713.6	3759.7	3748.2	3736.7
167.5°	3506.4	3535.2	3598.5	3592.7	3633.0	3650.3	3650.3	3638.8	3667.6	3627.3	3661.8
170°	3523.6	3523.6	3558.2	3569.7	3604.2	3621.5	3604.2	3604.2	3621.5	3633.0	3638.8
172.5°	3529.4	3523.6	3552.4	3546.7	3558.2	3587.0	3569.7	3546.7	3581.2	3604.2	3575.5
175°	3512.1	3517.9	3563.9	3552.4	3535.2	3563.9	3535.2	3529.4	3581.2	3575.5	3563.9
177.5°	3494.9	3494.9	3523.6	3500.6	3540.9	3540.9	3512.1	3512.1	3569.7	3529.4	3517.9
180°	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2



TEST NUMBER: P508446

CATALOG NUMBER: ASYX-X-S3-X-U-F-L40-1-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°	57.6	63.3	69.1	80.6	86.4	92.1	103.6	115.2	132.4	132.4	155.5
95°	184.2	190.0	190.0	201.5	207.3	207.3	213.0	236.1	259.1	287.9	339.7
97.5°	391.5	345.5	333.9	333.9	339.7	339.7	345.5	357.0	374.2	408.8	460.6
100°	690.9	587.3	512.4	472.1	460.6	454.8	460.6	460.6	489.4	535.5	593.0
102.5°	903.9	765.8	639.1	581.5	558.5	564.2	558.5	570.0	610.3	650.6	713.9
105°	1140.0	961.5	800.3	713.9	679.4	673.6	673.6	685.2	731.2	783.0	829.1
107.5°	1462.4	1237.9	1001.8	875.2	823.3	811.8	811.8	829.1	857.9	892.4	944.2
110°	1980.6	1612.1	1283.9	1082.4	1013.3	973.0	950.0	967.3	984.5	1013.3	1053.6
112.5°	2464.2	2009.4	1577.6	1272.4	1180.3	1117.0	1082.4	1082.4	1105.5	1128.5	1157.3
115°	2798.2	2291.5	1825.2	1468.2	1335.8	1278.2	1203.3	1209.1	1226.4	1249.4	1266.7
117.5°	3097.6	2556.4	2032.4	1652.4	1502.7	1410.6	1335.8	1318.5	1353.0	1381.8	1393.3
120°	3310.6	2786.7	2239.7	1842.4	1669.7	1566.1	1462.4	1445.2	1479.7	1485.5	1543.0
122.5°	3489.1	2953.6	2418.2	2009.4	1825.2	1738.8	1612.1	1589.1	1612.1	1652.4	1698.5
125°	3604.2	3103.3	2579.4	2164.9	1992.1	1877.0	1744.5	1727.3	1744.5	1773.3	1825.2
127.5°	3696.4	3224.2	2734.9	2326.1	2124.5	2032.4	1900.0	1865.5	1888.5	1900.0	1957.6
130°	3765.5	3362.4	2878.8	2481.5	2303.0	2210.9	2032.4	1997.9	2009.4	2038.2	2067.0
132.5°	3834.6	3448.8	3022.7	2642.7	2470.0	2366.4	2193.6	2118.8	2124.5	2147.6	2176.4
135°	3880.6	3540.9	3172.4	2803.9	2613.9	2533.3	2349.1	2274.2	2245.5	2239.7	2274.2
137.5°	3926.7	3627.3	3287.6	2953.6	2792.4	2700.3	2481.5	2395.2	2366.4	2360.6	2372.1
140°	3967.0	3702.1	3391.2	3114.9	2953.6	2844.2	2642.7	2533.3	2487.3	2464.2	2475.8
142.5°	3984.2	3765.5	3500.6	3287.6	3091.8	2965.2	2798.2	2688.8	2590.9	2562.1	2539.1
145°	3995.8	3863.3	3604.2	3397.0	3247.3	3172.4	2970.9	2827.0	2711.8	2654.2	2642.7
147.5°	3995.8	3857.6	3673.3	3489.1	3362.4	3281.8	3063.0	2970.9	2878.8	2780.9	2734.9
150°	3984.2	3920.9	3725.2	3581.2	3448.8	3385.5	3230.0	3057.3	2959.4	2890.3	2838.5
152.5°	3955.5	3869.1	3753.9	3627.3	3529.4	3489.1	3310.6	3201.2	3097.6	2993.9	2953.6
155°	3926.7	3857.6	3771.2	3667.6	3587.0	3535.2	3408.5	3299.1	3224.2	3114.9	3074.6
157.5°	3892.1	3846.1	3771.2	3713.6	3621.5	3587.0	3460.3	3385.5	3322.1	3212.7	3160.9
160°	3840.3	3811.5	3765.5	3684.9	3644.6	3615.8	3512.1	3454.6	3391.2	3310.6	3270.3
162.5°	3788.5	3794.2	3736.7	3719.4	3656.1	3633.0	3563.9	3500.6	3437.3	3391.2	3356.7
165°	3748.2	3771.2	3713.6	3656.1	3656.1	3644.6	3569.7	3540.9	3512.1	3460.3	3420.0
167.5°	3673.3	3702.1	3702.1	3633.0	3627.3	3644.6	3598.5	3569.7	3546.7	3506.4	3483.3
170°	3661.8	3661.8	3621.5	3627.3	3644.6	3604.2	3575.5	3569.7	3569.7	3546.7	3529.4
172.5°	3592.7	3627.3	3610.0	3598.5	3581.2	3581.2	3563.9	3569.7	3558.2	3563.9	3558.2
175°	3569.7	3575.5	3581.2	3575.5	3558.2	3558.2	3552.4	3558.2	3563.9	3563.9	3552.4
177.5°	3535.2	3552.4	3581.2	3552.4	3563.9	3540.9	3535.2	3546.7	3546.7	3552.4	3540.9
180°	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2





TEST NUMBER: P508446

CATALOG NUMBER: ASYX-X-S3-X-U-F-L40-1-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°	172.7	184.2	190.0	195.8	201.5	184.2	184.2	167.0	155.5
95°	368.5	397.3	397.3	397.3	414.5	426.1	420.3	414.5	414.5
97.5°	500.9	547.0	581.5	587.3	587.3	587.3	593.0	593.0	581.5
100°	633.3	656.4	679.4	685.2	679.4	679.4	673.6	685.2	679.4
102.5°	760.0	783.0	788.8	794.5	788.8	783.0	771.5	783.0	760.0
105°	869.4	892.4	886.7	880.9	875.2	863.6	852.1	869.4	863.6
107.5°	990.3	996.1	1001.8	1007.6	984.5	978.8	978.8	990.3	984.5
110°	1088.2	1111.2	1105.5	1099.7	1099.7	1088.2	1082.4	1088.2	1082.4
112.5°	1191.8	1203.3	1197.6	1197.6	1191.8	1174.5	1157.3	1163.0	1157.3
115°	1301.2	1307.0	1301.2	1289.7	1278.2	1266.7	1243.6	1232.1	1226.4
117.5°	1416.4	1410.6	1399.1	1393.3	1381.8	1376.1	1341.5	1324.2	1318.5
120°	1548.8	1531.5	1508.5	1502.7	1485.5	1479.7	1433.6	1404.9	1399.1
122.5°	1710.0	1681.2	1635.2	1612.1	1606.4	1589.1	1531.5	1520.0	1502.7
125°	1848.2	1836.7	1807.9	1790.6	1767.6	1715.8	1652.4	1623.6	1635.2
127.5°	1980.6	1974.9	1963.3	1940.3	1911.5	1888.5	1836.7	1790.6	1779.1
130°	2090.0	2095.8	2078.5	2061.2	2043.9	2020.9	1963.3	1934.5	1934.5
132.5°	2193.6	2199.4	2210.9	2164.9	2153.3	2130.3	2078.5	2043.9	2055.5
135°	2274.2	2285.8	2268.5	2251.2	2239.7	2216.7	2164.9	2147.6	2153.3
137.5°	2383.6	2372.1	2354.9	2343.3	2314.5	2308.8	2268.5	2239.7	2228.2
140°	2452.7	2458.5	2458.5	2429.7	2400.9	2389.4	2349.1	2320.3	2326.1
142.5°	2544.9	2521.8	2533.3	2504.5	2487.3	2470.0	2418.2	2412.4	2412.4
145°	2613.9	2602.4	2596.7	2573.6	2567.9	2533.3	2516.1	2487.3	2504.5
147.5°	2688.8	2688.8	2688.8	2637.0	2625.5	2608.2	2590.9	2567.9	2585.2
150°	2798.2	2757.9	2746.4	2717.6	2694.6	2683.0	2642.7	2631.2	2648.5
152.5°	2884.6	2838.5	2803.9	2786.7	2780.9	2763.6	2740.6	2723.3	2723.3
155°	2988.2	2924.9	2924.9	2861.5	2844.2	2832.7	2809.7	2803.9	2809.7
157.5°	3097.6	3040.0	3011.2	2976.7	2947.9	2936.4	2907.6	2896.1	2907.6
160°	3178.2	3172.4	3109.1	3091.8	3063.0	3045.8	3040.0	3011.2	3011.2
162.5°	3304.9	3224.2	3212.7	3195.5	3172.4	3149.4	3137.9	3126.4	3137.9
165°	3373.9	3350.9	3322.1	3299.1	3281.8	3276.1	3241.5	3253.0	3247.3
167.5°	3454.6	3437.3	3408.5	3391.2	3397.0	3373.9	3373.9	3345.2	3350.9
170°	3512.1	3523.6	3489.1	3471.8	3460.3	3460.3	3437.3	3437.3	3448.8
172.5°	3552.4	3569.7	3540.9	3529.4	3517.9	3529.4	3506.4	3500.6	3512.1
175°	3563.9	3587.0	3563.9	3558.2	3546.7	3581.2	3540.9	3540.9	3517.9
177.5°	3552.4	3558.2	3581.2	3546.7	3546.7	3558.2	3563.9	3517.9	3546.7
180°	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2	3535.2

(END OF REPORT)