

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: P508465

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

Issue Date: 4/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P508465  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-840-3)  
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-HSS-L35-1-UNV-X-X-X-STD  
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.  
(4) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

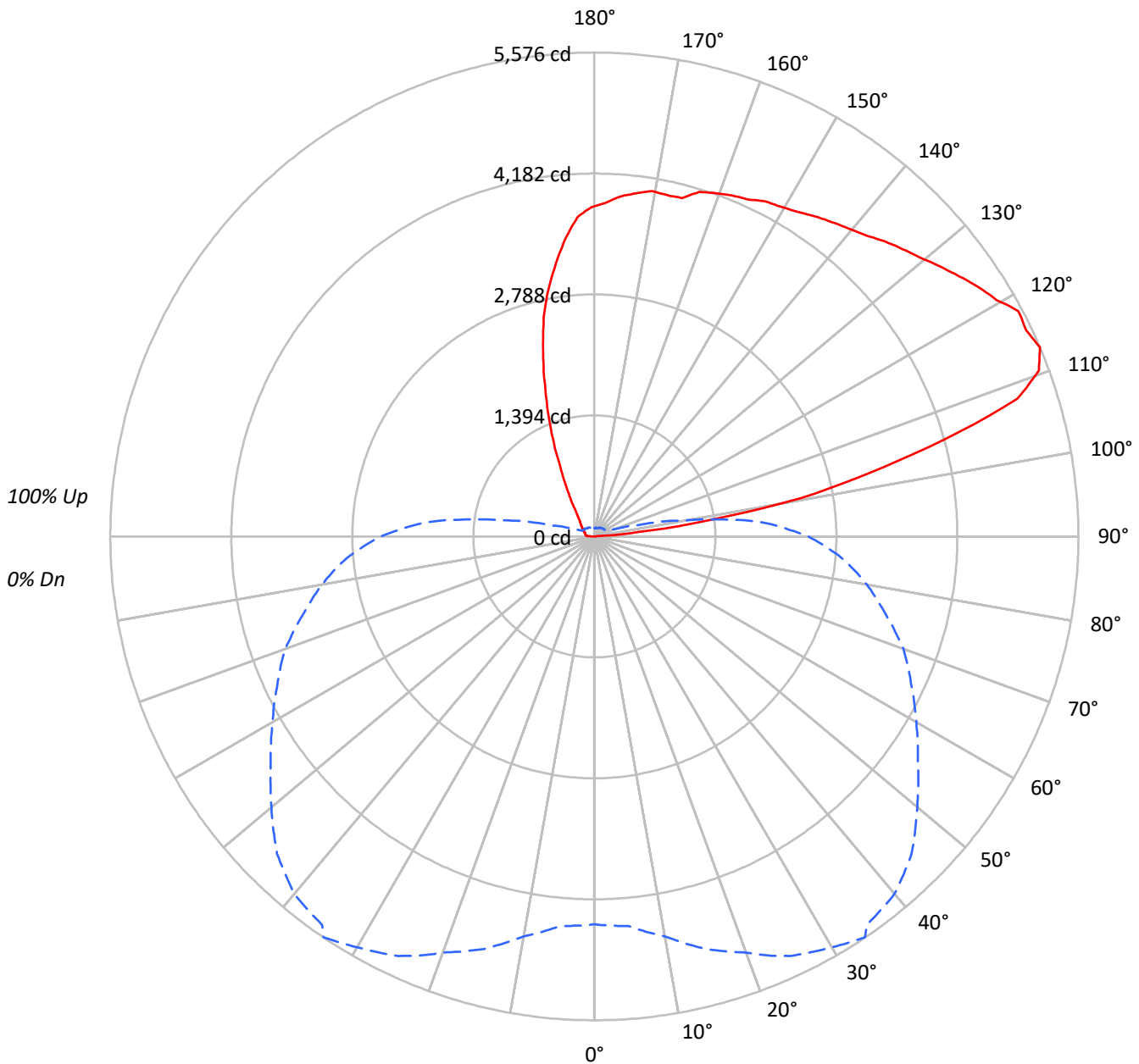
Lumens per Lamp: N/A  
Luminaire Lumens: 13068.8 lumens  
Efficiency: N/A  
Efficacy: 60.8 lumens/watt  
N/A  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
CIE Type: Indirect

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: P508465  
CATALOG NUMBER: ASYX-X-S4-X-U-HSS-L35-1-UNV-X-X-X-STD

### Luminous Intensity Polar Plot



— Vertical Plane Through 34° Lateral      - - - Horizontal Cone Through 112.5° Vertical



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**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
RCR																	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7
3	72	63	57	51	61	54	49	44	37	34	31	21	20	18	7	6	6
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
95°	902	10769	12573
100°	36498	22080	6757
105°	111865	35072	4234
110°	128351	60171	2974
115°	117017	70360	2593
120°	100160	68077	2504
125°	84174	65348	2592
130°	75963	61232	2800
135°	67283	57103	2988
140°	62208	52198	3371
145°	56933	48337	3821
150°	53942	44726	5331
155°	50681	42566	8115
160°	48381	41470	12824
165°	46339	40992	20171
170°	44734	40921	29638
175°	42966	40845	36446



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**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°	254.2	1.9
100°-110°	1592.8	12.2
110°-120°	2462.0	18.8
120°-130°	2376.0	18.2
130°-140°	2063.6	15.8
140°-150°	1700.8	13.0
150°-160°	1340.2	10.3
160°-170°	929.8	7.1
170°-180°	349.5	2.7
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°	4308.9	33.0
90°-150°	10449.3	80.0
90°-180°	13069.0	100.0
0°-180°	13068.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	7	65	87	80	102	123
105°	2690	4318	843	109	102	2639
115°	4594	5241	2762	138	102	4469
125°	4485	5111	3482	182	138	4102
135°	4420	4689	3751	254	196	3437
145°	4333	4384	3678	516	291	2747
155°	4267	4209	3584	1265	683	1966
165°	4158	4042	3678	2501	1810	1181
175°	3976	3904	3780	3533	3373	381
180°	3795	3795	3795	3795	3795	



TEST NUMBER: P508465

CATALOG NUMBER: ASYX-X-S4-X-U-HSS-L35-1-UNV-X-X-X-STD

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	34°	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°	0.0	0.0	7.3	7.3	21.8	14.5	14.5	21.8	29.1	36.3	14.5
95°	7.3	7.3	14.5	189.0	567.0	625.2	596.1	574.3	501.6	436.2	109.0
97.5°	152.7	181.7	290.8	777.9	1577.5	1817.4	1933.7	1584.8	1301.3	1206.8	647.0
100°	588.8	683.3	945.1	1788.3	2668.0	2726.1	2704.3	2631.6	2420.8	2282.7	1752.0
102.5°	1570.2	1635.7	1999.2	2747.9	3227.7	3329.5	3329.5	3264.1	3242.3	3198.7	3031.5
105°	2689.8	2762.5	3053.3	3438.6	3729.3	3838.4	3896.5	4041.9	4187.3	4209.1	4369.1
107.5°	3438.6	3511.3	3736.6	4027.4	4405.4	4543.5	4710.7	4943.4	5125.1	5103.3	5067.0
110°	4078.3	4158.3	4369.1	4659.9	4936.1	5103.3	5263.2	5365.0	5466.8	5365.0	5314.1
112.5°	4470.9	4507.2	4681.7	4921.6	5103.3	5226.9	5335.9	5466.8	5575.8	5466.8	5379.6
115°	4594.4	4616.2	4768.9	4936.1	5132.4	5248.7	5328.7	5466.8	5510.4	5488.6	5415.9
117.5°	4587.2	4681.7	4812.5	4928.8	5117.9	5212.4	5292.3	5401.4	5532.2	5474.1	5401.4
120°	4652.6	4659.9	4798.0	4936.1	5074.2	5154.2	5154.2	5314.1	5372.3	5357.8	5343.2
122.5°	4630.8	4652.6	4768.9	4856.1	5001.5	5067.0	5132.4	5212.4	5277.8	5256.0	5256.0
125°	4485.4	4623.5	4688.9	4790.7	4928.8	4972.5	5037.9	5103.3	5161.5	5139.7	5132.4
127.5°	4572.6	4579.9	4638.1	4747.1	4834.3	4863.4	4936.1	4994.3	5052.4	5045.2	5059.7
130°	4536.3	4514.5	4652.6	4696.2	4761.6	4812.5	4848.9	4899.8	4943.4	4943.4	4957.9
132.5°	4507.2	4507.2	4550.8	4638.1	4696.2	4732.6	4790.7	4805.3	4856.1	4870.7	4841.6
135°	4420.0	4478.1	4543.5	4572.6	4638.1	4667.1	4696.2	4725.3	4768.9	4783.4	4732.6
137.5°	4332.7	4420.0	4507.2	4550.8	4601.7	4601.7	4601.7	4645.3	4667.1	4688.9	4638.1
140°	4427.2	4420.0	4499.9	4492.7	4521.7	4514.5	4565.4	4572.6	4601.7	4587.2	4558.1
142.5°	4405.4	4405.4	4427.2	4456.3	4449.0	4463.6	4499.9	4536.3	4536.3	4550.8	4499.9
145°	4332.7	4354.5	4390.9	4420.0	4420.0	4412.7	4456.3	4463.6	4478.1	4470.9	4441.8
147.5°	4361.8	4361.8	4361.8	4398.2	4398.2	4398.2	4405.4	4412.7	4412.7	4420.0	4398.2
150°	4340.0	4347.3	4361.8	4347.3	4383.6	4325.5	4361.8	4361.8	4361.8	4369.1	4354.5
152.5°	4194.6	4296.4	4332.7	4325.5	4296.4	4310.9	4318.2	4347.3	4332.7	4347.3	4303.6
155°	4267.3	4260.0	4267.3	4274.6	4252.8	4267.3	4274.6	4274.6	4267.3	4274.6	4238.2
157.5°	4245.5	4238.2	4274.6	4231.0	4252.8	4267.3	4238.2	4260.0	4238.2	4267.3	4252.8
160°	4223.7	4209.1	4238.2	4209.1	4238.2	4201.9	4180.1	4216.4	4194.6	4245.5	4172.8
162.5°	4194.6	4187.3	4216.4	4180.1	4151.0	4136.4	4158.3	4165.5	4151.0	4165.5	4129.2
165°	4158.3	4158.3	4158.3	4121.9	4143.7	4143.7	4114.6	4121.9	4027.4	4129.2	4085.6
167.5°	4129.2	4158.3	4121.9	4085.6	4129.2	4129.2	4078.3	4085.6	4020.1	4071.0	4049.2
170°	4092.8	4063.7	4071.0	4071.0	4107.4	4041.9	4005.6	4071.0	4034.7	4071.0	4034.7
172.5°	4005.6	4034.7	4034.7	4020.1	3998.3	3998.3	3991.1	4005.6	3983.8	3991.1	3969.2
175°	3976.5	3976.5	3991.1	4012.9	3969.2	3962.0	3918.4	3954.7	3932.9	3947.4	3925.6
177.5°	3867.5	3925.6	3918.4	3867.5	3896.5	3852.9	3874.7	3889.3	3845.7	3882.0	3845.7
180°	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8



TEST NUMBER: P508465

CATALOG NUMBER: ASYX-X-S4-X-U-HSS-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°	14.5	14.5	14.5	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8
95°	65.4	87.2	210.8	174.5	130.9	123.6	138.1	123.6	109.0	94.5	87.2
97.5°	523.4	588.8	617.9	545.2	538.0	494.3	443.5	334.4	305.3	269.0	210.8
100°	1432.1	1272.2	1192.2	1061.4	857.8	777.9	712.4	588.8	479.8	421.6	356.2
102.5°	2740.7	2442.6	2057.3	1650.2	1344.9	1228.6	1097.7	916.0	770.6	639.7	530.7
105°	4318.2	3751.2	3002.4	2457.2	2050.0	1795.6	1679.3	1388.5	1148.6	1003.2	843.3
107.5°	4841.6	4478.1	4012.9	3445.8	2966.0	2733.4	2479.0	2093.7	1788.3	1519.4	1279.5
110°	5059.7	4747.1	4398.2	4063.7	3736.6	3525.8	3351.3	2958.8	2580.7	2246.3	1911.9
112.5°	5168.7	4856.1	4550.8	4281.8	4027.4	3911.1	3787.5	3474.9	3184.1	2864.3	2464.4
115°	5241.4	4994.3	4725.3	4441.8	4245.5	4121.9	4012.9	3729.3	3460.4	3169.6	2762.5
117.5°	5277.8	5030.6	4834.3	4601.7	4398.2	4296.4	4180.1	3925.6	3656.6	3387.7	2980.6
120°	5234.2	5067.0	4907.0	4710.7	4514.5	4412.7	4318.2	4063.7	3816.6	3562.1	3162.3
122.5°	5176.0	5081.5	4957.9	4761.6	4616.2	4529.0	4449.0	4194.6	3976.5	3685.7	3322.2
125°	5110.6	5016.1	4885.2	4761.6	4645.3	4579.9	4521.7	4296.4	4071.0	3823.8	3482.2
127.5°	5008.8	4921.6	4819.8	4718.0	4630.8	4565.4	4543.5	4347.3	4136.4	3918.4	3569.4
130°	4899.8	4827.1	4739.8	4638.1	4579.9	4507.2	4514.5	4340.0	4172.8	3969.2	3656.6
132.5°	4754.4	4703.5	4681.7	4572.6	4514.5	4478.1	4427.2	4310.9	4172.8	4012.9	3714.8
135°	4688.9	4638.1	4601.7	4507.2	4420.0	4405.4	4332.7	4267.3	4151.0	4034.7	3751.2
137.5°	4572.6	4543.5	4521.7	4420.0	4332.7	4332.7	4310.9	4223.7	4121.9	3962.0	3722.1
140°	4521.7	4485.4	4427.2	4347.3	4296.4	4252.8	4231.0	4158.3	4034.7	3911.1	3714.8
142.5°	4434.5	4405.4	4390.9	4318.2	4238.2	4194.6	4151.0	4071.0	3983.8	3896.5	3685.7
145°	4383.6	4376.3	4361.8	4289.1	4165.5	4143.7	4129.2	4041.9	3962.0	3823.8	3678.5
147.5°	4318.2	4325.5	4310.9	4223.7	4143.7	4092.8	4056.5	3976.5	3918.4	3802.0	3620.3
150°	4274.6	4281.8	4267.3	4158.3	4071.0	4049.2	4034.7	3954.7	3845.7	3751.2	3598.5
152.5°	4252.8	4231.0	4194.6	4151.0	4056.5	4005.6	3991.1	3903.8	3845.7	3729.3	3584.0
155°	4209.1	4180.1	4158.3	4085.6	4027.4	3976.5	3940.2	3889.3	3823.8	3707.5	3584.0
157.5°	4165.5	4136.4	4121.9	4107.4	4027.4	3954.7	3947.4	3889.3	3787.5	3700.3	3598.5
160°	4121.9	4049.2	4107.4	4020.1	3998.3	3940.2	3896.5	3860.2	3787.5	3707.5	3620.3
162.5°	4078.3	4056.5	4049.2	3998.3	3954.7	3918.4	3852.9	3874.7	3787.5	3714.8	3649.4
165°	4041.9	4020.1	4012.9	3998.3	3932.9	3903.8	3889.3	3845.7	3809.3	3736.6	3678.5
167.5°	4005.6	3969.2	3983.8	3969.2	3889.3	3911.1	3874.7	3845.7	3823.8	3765.7	3707.5
170°	3998.3	3925.6	3962.0	3954.7	3896.5	3889.3	3845.7	3838.4	3816.6	3773.0	3743.9
172.5°	3962.0	3911.1	3932.9	3911.1	3882.0	3860.2	3860.2	3867.5	3831.1	3802.0	3765.7
175°	3903.8	3874.7	3882.0	3903.8	3860.2	3845.7	3809.3	3838.4	3845.7	3794.8	3780.2
177.5°	3838.4	3867.5	3845.7	3874.7	3838.4	3831.1	3809.3	3831.1	3831.1	3787.5	3787.5
180°	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8



TEST NUMBER: P508465

CATALOG NUMBER: ASYX-X-S4-X-U-HSS-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°	21.8	29.1	29.1	36.3	43.6	43.6	50.9	50.9	58.2	65.4	72.7
95°	43.6	36.3	43.6	50.9	50.9	58.2	65.4	65.4	72.7	80.0	80.0
97.5°	87.2	58.2	58.2	58.2	65.4	65.4	72.7	80.0	87.2	87.2	87.2
100°	167.2	94.5	94.5	72.7	72.7	80.0	80.0	87.2	94.5	94.5	94.5
102.5°	290.8	174.5	138.1	94.5	87.2	87.2	94.5	94.5	101.8	101.8	101.8
105°	545.2	348.9	196.3	116.3	109.0	101.8	101.8	101.8	109.0	109.0	109.0
107.5°	959.6	559.8	276.2	152.7	130.9	116.3	116.3	116.3	116.3	116.3	116.3
110°	1461.2	821.5	378.0	196.3	159.9	138.1	130.9	130.9	123.6	123.6	123.6
112.5°	1919.2	1075.9	479.8	239.9	189.0	159.9	145.4	138.1	138.1	130.9	123.6
115°	2210.0	1264.9	581.6	276.2	218.1	181.7	152.7	152.7	145.4	138.1	130.9
117.5°	2420.8	1461.2	705.2	334.4	254.4	210.8	167.2	159.9	152.7	152.7	145.4
120°	2624.4	1664.8	836.0	399.8	305.3	239.9	189.0	174.5	167.2	159.9	152.7
122.5°	2820.6	1861.0	981.4	479.8	356.2	283.5	210.8	189.0	181.7	167.2	167.2
125°	2973.3	2064.6	1148.6	581.6	428.9	334.4	239.9	203.6	189.0	181.7	174.5
127.5°	3140.5	2268.1	1323.1	690.6	508.9	399.8	276.2	225.4	210.8	196.3	189.0
130°	3264.1	2464.4	1512.1	836.0	625.2	479.8	327.1	254.4	225.4	210.8	203.6
132.5°	3358.6	2631.6	1701.1	995.9	763.3	581.6	392.6	305.3	254.4	232.6	218.1
135°	3387.7	2777.0	1897.4	1170.4	908.7	712.4	479.8	363.5	290.8	254.4	239.9
137.5°	3416.7	2893.3	2086.4	1366.7	1097.7	872.4	581.6	436.2	348.9	298.1	261.7
140°	3402.2	2980.6	2268.1	1584.8	1294.0	1046.8	719.7	530.7	421.6	356.2	305.3
142.5°	3394.9	3053.3	2457.2	1788.3	1497.6	1250.4	886.9	654.3	516.1	421.6	363.5
145°	3409.5	3104.2	2595.3	2006.4	1737.5	1483.0	1090.5	799.7	632.5	516.1	450.7
147.5°	3358.6	3133.2	2762.5	2195.4	1948.3	1701.1	1308.5	995.9	792.4	647.0	552.5
150°	3402.2	3147.8	2835.2	2384.5	2151.8	1926.5	1548.4	1221.3	988.7	814.2	697.9
152.5°	3394.9	3162.3	2915.1	2551.7	2355.4	2144.6	1766.5	1446.7	1199.5	1017.8	879.6
155°	3431.3	3169.6	2995.1	2718.9	2544.4	2355.4	2013.7	1708.4	1446.7	1264.9	1105.0
157.5°	3460.4	3264.1	3089.6	2871.5	2718.9	2558.9	2268.1	1984.6	1737.5	1548.4	1352.2
160°	3504.0	3315.0	3162.3	2995.1	2893.3	2726.1	2515.3	2289.9	2050.0	1846.5	1686.6
162.5°	3525.8	3394.9	3264.1	3096.9	3031.5	2915.1	2740.7	2573.5	2369.9	2180.9	2028.2
165°	3569.4	3438.6	3351.3	3213.2	3147.8	3046.0	2936.9	2784.3	2660.7	2500.8	2384.5
167.5°	3613.0	3525.8	3453.1	3344.1	3285.9	3213.2	3118.7	3016.9	2951.5	2827.9	2711.6
170°	3656.6	3584.0	3547.6	3496.7	3409.5	3351.3	3307.7	3235.0	3147.8	3089.6	3024.2
172.5°	3693.0	3663.9	3642.1	3627.6	3540.3	3496.7	3467.6	3387.7	3387.7	3307.7	3256.8
175°	3751.2	3656.6	3722.1	3685.7	3656.6	3620.3	3605.8	3584.0	3562.1	3533.1	3504.0
177.5°	3780.2	3765.7	3780.2	3765.7	3758.4	3722.1	3743.9	3722.1	3714.8	3707.5	3685.7
180°	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8





TEST NUMBER: P508465

CATALOG NUMBER: ASYX-X-S4-X-U-HSS-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°	80.0	80.0	87.2	87.2	87.2	87.2	94.5	87.2	80.0
95°	87.2	94.5	94.5	94.5	101.8	101.8	101.8	101.8	101.8
97.5°	94.5	94.5	101.8	101.8	101.8	109.0	109.0	109.0	109.0
100°	101.8	101.8	101.8	109.0	109.0	109.0	109.0	109.0	109.0
102.5°	101.8	101.8	101.8	109.0	109.0	109.0	109.0	109.0	109.0
105°	109.0	101.8	101.8	101.8	101.8	101.8	101.8	101.8	101.8
107.5°	109.0	109.0	101.8	101.8	101.8	101.8	101.8	101.8	101.8
110°	116.3	109.0	101.8	101.8	101.8	101.8	101.8	101.8	94.5
112.5°	123.6	116.3	109.0	101.8	101.8	101.8	101.8	94.5	94.5
115°	130.9	123.6	116.3	116.3	109.0	109.0	109.0	101.8	101.8
117.5°	138.1	130.9	123.6	123.6	116.3	116.3	109.0	109.0	109.0
120°	145.4	145.4	138.1	130.9	130.9	123.6	123.6	116.3	116.3
122.5°	159.9	145.4	145.4	145.4	145.4	138.1	130.9	130.9	130.9
125°	167.2	159.9	159.9	159.9	152.7	152.7	145.4	138.1	138.1
127.5°	181.7	174.5	174.5	167.2	167.2	159.9	159.9	152.7	152.7
130°	196.3	189.0	181.7	181.7	181.7	174.5	174.5	167.2	167.2
132.5°	210.8	203.6	203.6	196.3	196.3	189.0	189.0	181.7	181.7
135°	232.6	218.1	218.1	218.1	210.8	203.6	203.6	203.6	196.3
137.5°	247.2	239.9	232.6	225.4	225.4	225.4	218.1	218.1	218.1
140°	283.5	261.7	254.4	247.2	247.2	239.9	239.9	239.9	239.9
142.5°	327.1	305.3	283.5	276.2	269.0	261.7	261.7	254.4	254.4
145°	399.8	363.5	334.4	327.1	312.6	298.1	298.1	290.8	290.8
147.5°	487.1	443.5	407.1	392.6	385.3	370.8	356.2	348.9	341.7
150°	610.7	545.2	508.9	494.3	479.8	450.7	436.2	428.9	428.9
152.5°	770.6	697.9	639.7	610.7	596.1	567.0	545.2	538.0	545.2
155°	966.9	879.6	821.5	785.1	756.0	719.7	705.2	697.9	683.3
157.5°	1243.1	1126.8	1039.6	1010.5	974.1	937.8	916.0	894.2	879.6
160°	1541.2	1410.3	1330.4	1294.0	1250.4	1192.2	1163.1	1134.1	1119.5
162.5°	1868.3	1759.3	1664.8	1606.6	1584.8	1512.1	1483.0	1446.7	1453.9
165°	2231.8	2115.5	2042.8	1999.2	1941.0	1904.7	1882.8	1832.0	1810.1
167.5°	2617.1	2486.2	2449.9	2391.7	2340.8	2289.9	2289.9	2268.1	2246.3
170°	2907.9	2878.8	2835.2	2769.7	2762.5	2726.1	2726.1	2704.3	2711.6
172.5°	3184.1	3140.5	3140.5	3118.7	3096.9	3082.3	3046.0	3060.5	3060.5
175°	3460.4	3438.6	3424.0	3365.9	3380.4	3380.4	3358.6	3358.6	3373.1
177.5°	3685.7	3685.7	3671.2	3663.9	3656.6	3663.9	3671.2	3678.5	3663.9
180°	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8

(END OF REPORT)