

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: P508463

Luminaire Tested: **ASYX-X-S4-X-U-HSS-L27-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P508463  
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-L27-1-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: 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

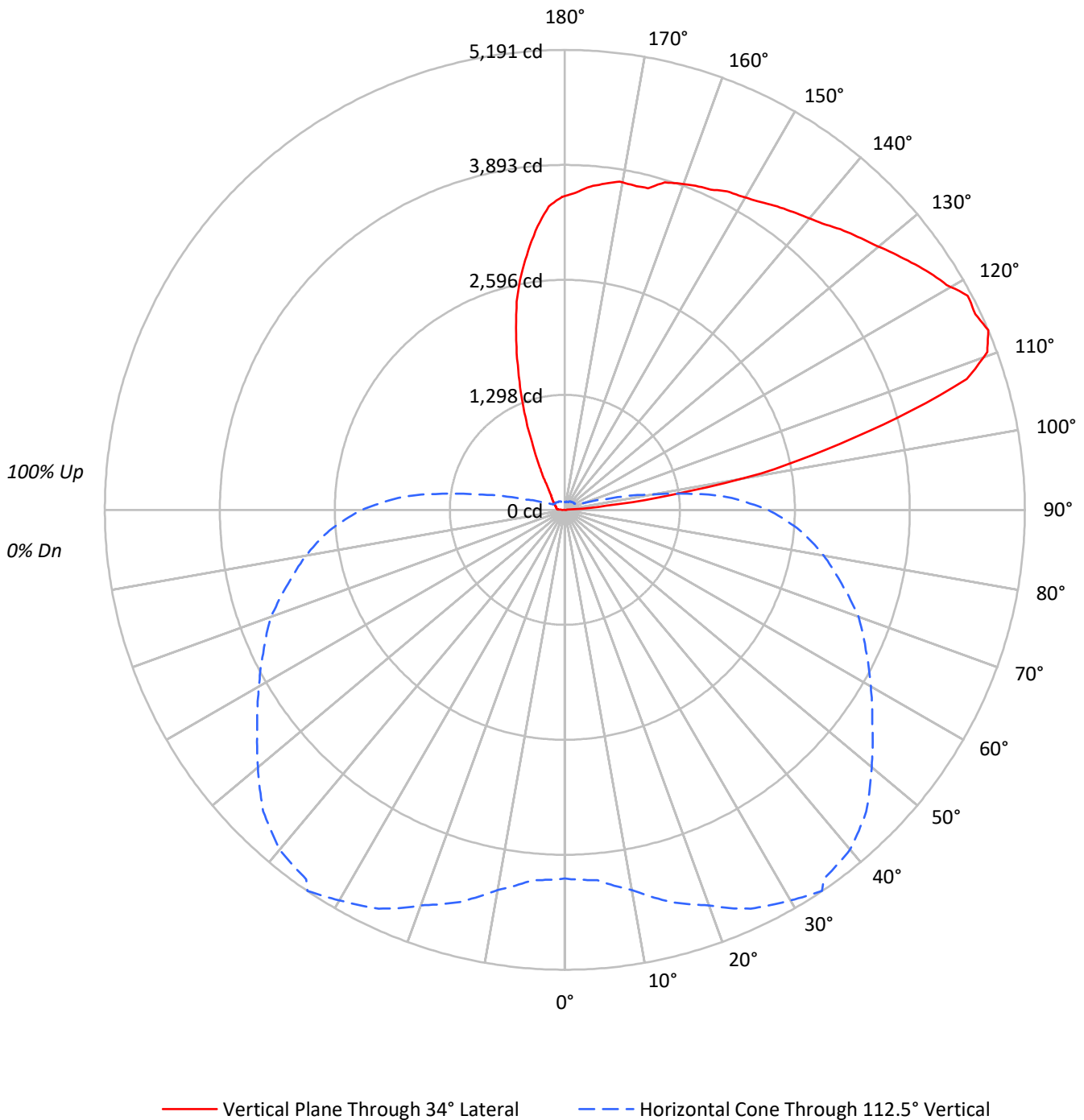
Lumens per Lamp: N/A  
Luminaire Lumens: 12167.5 lumens  
Efficiency: N/A  
Efficacy: 56.6 lumens/watt  
N/A  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
CIE Type: Indirect

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: P508463  
CATALOG NUMBER: ASYX-X-S4-X-U-HSS-L27-1-UNV-X-X-X-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P508463

CATALOG NUMBER: ASYX-X-S4-X-U-HSS-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	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°	840	10028	11708
100°	33981	20555	6292
105°	104150	32651	3943
110°	119498	56023	2769
115°	108949	65508	2415
120°	93252	63382	2331
125°	78370	60840	2413
130°	70724	57011	2607
135°	62642	53164	2781
140°	57918	48598	3139
145°	53007	45003	3557
150°	50222	41641	4963
155°	47186	39630	7556
160°	45045	38609	11939
165°	43143	38165	18780
170°	41650	38099	27594
175°	40003	38028	33933



TEST NUMBER: P508463

CATALOG NUMBER: ASYX-X-S4-X-U-HSS-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°	236.6	1.9
100°-110°	1482.9	12.2
110°-120°	2292.2	18.8
120°-130°	2212.1	18.2
130°-140°	1921.3	15.8
140°-150°	1583.5	13.0
150°-160°	1247.8	10.3
160°-170°	865.7	7.1
170°-180°	325.4	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°	4011.8	33.0
90°-150°	9728.7	80.0
90°-180°	12168.0	100.0
0°-180°	12167.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	7	61	81	74	95	115
105°	2504	4020	785	102	95	2457
115°	4278	4880	2572	129	95	4160
125°	4176	4758	3242	169	129	3819
135°	4115	4366	3492	237	183	3200
145°	4034	4081	3425	481	271	2557
155°	3973	3919	3337	1178	636	1831
165°	3872	3763	3425	2328	1685	1100
175°	3702	3635	3520	3289	3140	355
180°	3533	3533	3533	3533	3533	



TEST NUMBER: P508463

CATALOG NUMBER: ASYX-X-S4-X-U-HSS-L27-1-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	6.8	6.8	20.3	13.5	13.5	20.3	27.1	33.8	13.5
95°	6.8	6.8	13.5	176.0	527.9	582.1	555.0	534.7	467.0	406.1	101.5
97.5°	142.1	169.2	270.7	724.2	1468.7	1692.1	1800.4	1475.5	1211.5	1123.5	602.4
100°	548.2	636.2	879.9	1665.0	2484.0	2538.1	2517.8	2450.1	2253.9	2125.3	1631.2
102.5°	1462.0	1522.9	1861.3	2558.4	3005.1	3099.9	3099.9	3039.0	3018.7	2978.1	2822.4
105°	2504.3	2572.0	2842.7	3201.4	3472.1	3573.7	3627.8	3763.2	3898.6	3918.9	4067.8
107.5°	3201.4	3269.1	3478.9	3749.6	4101.6	4230.2	4385.9	4602.5	4771.7	4751.4	4717.5
110°	3797.0	3871.5	4067.8	4338.5	4595.7	4751.4	4900.3	4995.0	5089.8	4995.0	4947.6
112.5°	4162.5	4196.4	4358.8	4582.2	4751.4	4866.4	4967.9	5089.8	5191.3	5089.8	5008.6
115°	4277.6	4297.9	4440.0	4595.7	4778.4	4886.7	4961.2	5089.8	5130.4	5110.1	5042.4
117.5°	4270.8	4358.8	4480.6	4588.9	4764.9	4852.9	4927.3	5028.9	5150.7	5096.5	5028.9
120°	4331.7	4338.5	4467.1	4595.7	4724.3	4798.7	4798.7	4947.6	5001.8	4988.3	4974.7
122.5°	4311.4	4331.7	4440.0	4521.2	4656.6	4717.5	4778.4	4852.9	4913.8	4893.5	4893.5
125°	4176.1	4304.7	4365.6	4460.3	4588.9	4629.5	4690.4	4751.4	4805.5	4785.2	4778.4
127.5°	4257.3	4264.0	4318.2	4419.7	4500.9	4528.0	4595.7	4649.8	4704.0	4697.2	4710.7
130°	4223.4	4203.1	4331.7	4372.3	4433.2	4480.6	4514.5	4561.8	4602.5	4602.5	4616.0
132.5°	4196.4	4196.4	4237.0	4318.2	4372.3	4406.2	4460.3	4473.9	4521.2	4534.8	4507.7
135°	4115.1	4169.3	4230.2	4257.3	4318.2	4345.3	4372.3	4399.4	4440.0	4453.6	4406.2
137.5°	4033.9	4115.1	4196.4	4237.0	4284.3	4284.3	4284.3	4325.0	4345.3	4365.6	4318.2
140°	4121.9	4115.1	4189.6	4182.8	4209.9	4203.1	4250.5	4257.3	4284.3	4270.8	4243.7
142.5°	4101.6	4101.6	4121.9	4149.0	4142.2	4155.7	4189.6	4223.4	4223.4	4237.0	4189.6
145°	4033.9	4054.2	4088.1	4115.1	4115.1	4108.4	4149.0	4155.7	4169.3	4162.5	4135.4
147.5°	4061.0	4061.0	4061.0	4094.8	4094.8	4094.8	4101.6	4108.4	4108.4	4115.1	4094.8
150°	4040.7	4047.5	4061.0	4047.5	4081.3	4027.1	4061.0	4061.0	4061.0	4067.8	4054.2
152.5°	3905.3	4000.1	4033.9	4027.1	4000.1	4013.6	4020.4	4047.5	4033.9	4047.5	4006.8
155°	3973.0	3966.2	3973.0	3979.8	3959.5	3973.0	3979.8	3979.8	3973.0	3979.8	3945.9
157.5°	3952.7	3945.9	3979.8	3939.2	3959.5	3973.0	3945.9	3966.2	3945.9	3973.0	3959.5
160°	3932.4	3918.9	3945.9	3918.9	3945.9	3912.1	3891.8	3925.6	3905.3	3952.7	3885.0
162.5°	3905.3	3898.6	3925.6	3891.8	3864.7	3851.2	3871.5	3878.2	3864.7	3878.2	3844.4
165°	3871.5	3871.5	3871.5	3837.6	3857.9	3857.9	3830.9	3837.6	3749.6	3844.4	3803.8
167.5°	3844.4	3871.5	3837.6	3803.8	3844.4	3844.4	3797.0	3803.8	3742.9	3790.3	3770.0
170°	3810.6	3783.5	3790.3	3790.3	3824.1	3763.2	3729.3	3790.3	3756.4	3790.3	3756.4
172.5°	3729.3	3756.4	3756.4	3742.9	3722.6	3722.6	3715.8	3729.3	3709.0	3715.8	3695.5
175°	3702.3	3702.3	3715.8	3736.1	3695.5	3688.7	3648.1	3682.0	3661.7	3675.2	3654.9
177.5°	3600.7	3654.9	3648.1	3600.7	3627.8	3587.2	3607.5	3621.1	3580.4	3614.3	3580.4
180°	3533.1	3533.1	3533.1	3533.1	3533.1	3533.1	3533.1	3533.1	3533.1	3533.1	3533.1



TEST NUMBER: P508463

CATALOG NUMBER: ASYX-X-S4-X-U-HSS-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°	13.5	13.5	13.5	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
95°	60.9	81.2	196.3	162.4	121.8	115.1	128.6	115.1	101.5	88.0	81.2
97.5°	487.3	548.2	575.3	507.6	500.9	460.2	412.9	311.3	284.3	250.4	196.3
100°	1333.4	1184.5	1110.0	988.2	798.7	724.2	663.3	548.2	446.7	392.6	331.6
102.5°	2551.7	2274.2	1915.4	1536.4	1252.1	1143.8	1022.0	852.8	717.4	595.6	494.1
105°	4020.4	3492.5	2795.3	2287.7	1908.7	1671.8	1563.5	1292.7	1069.4	934.0	785.1
107.5°	4507.7	4169.3	3736.1	3208.2	2761.5	2544.9	2308.0	1949.3	1665.0	1414.6	1191.2
110°	4710.7	4419.7	4094.8	3783.5	3478.9	3282.6	3120.2	2754.7	2402.8	2091.4	1780.1
112.5°	4812.3	4521.2	4237.0	3986.5	3749.6	3641.4	3526.3	3235.3	2964.5	2666.7	2294.5
115°	4880.0	4649.8	4399.4	4135.4	3952.7	3837.6	3736.1	3472.1	3221.7	2951.0	2572.0
117.5°	4913.8	4683.7	4500.9	4284.3	4094.8	4000.1	3891.8	3654.9	3404.5	3154.0	2775.0
120°	4873.2	4717.5	4568.6	4385.9	4203.1	4108.4	4020.4	3783.5	3553.4	3316.5	2944.2
122.5°	4819.0	4731.1	4616.0	4433.2	4297.9	4216.7	4142.2	3905.3	3702.3	3431.5	3093.1
125°	4758.1	4670.1	4548.3	4433.2	4325.0	4264.0	4209.9	4000.1	3790.3	3560.1	3242.0
127.5°	4663.4	4582.2	4487.4	4392.6	4311.4	4250.5	4230.2	4047.5	3851.2	3648.1	3323.2
130°	4561.8	4494.2	4412.9	4318.2	4264.0	4196.4	4203.1	4040.7	3885.0	3695.5	3404.5
132.5°	4426.5	4379.1	4358.8	4257.3	4203.1	4169.3	4121.9	4013.6	3885.0	3736.1	3458.6
135°	4365.6	4318.2	4284.3	4196.4	4115.1	4101.6	4033.9	3973.0	3864.7	3756.4	3492.5
137.5°	4257.3	4230.2	4209.9	4115.1	4033.9	4033.9	4013.6	3932.4	3837.6	3688.7	3465.4
140°	4209.9	4176.1	4121.9	4047.5	4000.1	3959.5	3939.2	3871.5	3756.4	3641.4	3458.6
142.5°	4128.7	4101.6	4088.1	4020.4	3945.9	3905.3	3864.7	3790.3	3709.0	3627.8	3431.5
145°	4081.3	4074.5	4061.0	3993.3	3878.2	3857.9	3844.4	3763.2	3688.7	3560.1	3424.8
147.5°	4020.4	4027.1	4013.6	3932.4	3857.9	3810.6	3776.7	3702.3	3648.1	3539.8	3370.6
150°	3979.8	3986.5	3973.0	3871.5	3790.3	3770.0	3756.4	3682.0	3580.4	3492.5	3350.3
152.5°	3959.5	3939.2	3905.3	3864.7	3776.7	3729.3	3715.8	3634.6	3580.4	3472.1	3336.8
155°	3918.9	3891.8	3871.5	3803.8	3749.6	3702.3	3668.4	3621.1	3560.1	3451.8	3336.8
157.5°	3878.2	3851.2	3837.6	3824.1	3749.6	3682.0	3675.2	3621.1	3526.3	3445.1	3350.3
160°	3837.6	3770.0	3824.1	3742.9	3722.6	3668.4	3627.8	3594.0	3526.3	3451.8	3370.6
162.5°	3797.0	3776.7	3770.0	3722.6	3682.0	3648.1	3587.2	3607.5	3526.3	3458.6	3397.7
165°	3763.2	3742.9	3736.1	3722.6	3661.7	3634.6	3621.1	3580.4	3546.6	3478.9	3424.8
167.5°	3729.3	3695.5	3709.0	3695.5	3621.1	3641.4	3607.5	3580.4	3560.1	3506.0	3451.8
170°	3722.6	3654.9	3688.7	3682.0	3627.8	3621.1	3580.4	3573.7	3553.4	3512.8	3485.7
172.5°	3688.7	3641.4	3661.7	3641.4	3614.3	3594.0	3594.0	3600.7	3566.9	3539.8	3506.0
175°	3634.6	3607.5	3614.3	3634.6	3594.0	3580.4	3546.6	3573.7	3580.4	3533.1	3519.5
177.5°	3573.7	3600.7	3580.4	3607.5	3573.7	3566.9	3546.6	3566.9	3566.9	3526.3	3526.3
180°	3533.1	3533.1	3533.1	3533.1	3533.1	3533.1	3533.1	3533.1	3533.1	3533.1	3533.1



TEST NUMBER: P508463

CATALOG NUMBER: ASYX-X-S4-X-U-HSS-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°	20.3	27.1	27.1	33.8	40.6	40.6	47.4	47.4	54.1	60.9	67.7
95°	40.6	33.8	40.6	47.4	47.4	54.1	60.9	60.9	67.7	74.5	74.5
97.5°	81.2	54.1	54.1	54.1	60.9	60.9	67.7	74.5	81.2	81.2	81.2
100°	155.7	88.0	88.0	67.7	67.7	74.5	74.5	81.2	88.0	88.0	88.0
102.5°	270.7	162.4	128.6	88.0	81.2	81.2	88.0	88.0	94.8	94.8	94.8
105°	507.6	324.9	182.7	108.3	101.5	94.8	94.8	94.8	101.5	101.5	101.5
107.5°	893.4	521.2	257.2	142.1	121.8	108.3	108.3	108.3	108.3	108.3	108.3
110°	1360.4	764.8	352.0	182.7	148.9	128.6	121.8	121.8	115.1	115.1	115.1
112.5°	1786.8	1001.7	446.7	223.4	176.0	148.9	135.4	128.6	128.6	121.8	115.1
115°	2057.6	1177.7	541.5	257.2	203.0	169.2	142.1	142.1	135.4	128.6	121.8
117.5°	2253.9	1360.4	656.5	311.3	236.9	196.3	155.7	148.9	142.1	142.1	135.4
120°	2443.4	1549.9	778.4	372.3	284.3	223.4	176.0	162.4	155.7	148.9	142.1
122.5°	2626.1	1732.7	913.7	446.7	331.6	264.0	196.3	176.0	169.2	155.7	155.7
125°	2768.2	1922.2	1069.4	541.5	399.3	311.3	223.4	189.5	176.0	169.2	162.4
127.5°	2923.9	2111.7	1231.8	643.0	473.8	372.3	257.2	209.8	196.3	182.7	176.0
130°	3039.0	2294.5	1407.8	778.4	582.1	446.7	304.6	236.9	209.8	196.3	189.5
132.5°	3127.0	2450.1	1583.8	927.3	710.7	541.5	365.5	284.3	236.9	216.6	203.0
135°	3154.0	2585.5	1766.5	1089.7	846.0	663.3	446.7	338.4	270.7	236.9	223.4
137.5°	3181.1	2693.8	1942.5	1272.4	1022.0	812.2	541.5	406.1	324.9	277.5	243.7
140°	3167.6	2775.0	2111.7	1475.5	1204.8	974.6	670.1	494.1	392.6	331.6	284.3
142.5°	3160.8	2842.7	2287.7	1665.0	1394.3	1164.2	825.7	609.1	480.6	392.6	338.4
145°	3174.3	2890.1	2416.3	1868.1	1617.6	1380.7	1015.2	744.5	588.8	480.6	419.6
147.5°	3127.0	2917.1	2572.0	2044.0	1813.9	1583.8	1218.3	927.3	737.7	602.4	514.4
150°	3167.6	2930.7	2639.6	2220.0	2003.4	1793.6	1441.7	1137.1	920.5	758.1	649.8
152.5°	3160.8	2944.2	2714.1	2375.7	2192.9	1996.7	1644.7	1346.9	1116.8	947.6	819.0
155°	3194.6	2951.0	2788.5	2531.4	2368.9	2192.9	1874.8	1590.6	1346.9	1177.7	1028.8
157.5°	3221.7	3039.0	2876.5	2673.5	2531.4	2382.4	2111.7	1847.8	1617.6	1441.7	1258.9
160°	3262.3	3086.4	2944.2	2788.5	2693.8	2538.1	2341.8	2132.0	1908.7	1719.2	1570.2
162.5°	3282.6	3160.8	3039.0	2883.3	2822.4	2714.1	2551.7	2396.0	2206.5	2030.5	1888.4
165°	3323.2	3201.4	3120.2	2991.6	2930.7	2835.9	2734.4	2592.3	2477.2	2328.3	2220.0
167.5°	3363.9	3282.6	3215.0	3113.4	3059.3	2991.6	2903.6	2808.9	2747.9	2632.9	2524.6
170°	3404.5	3336.8	3302.9	3255.6	3174.3	3120.2	3079.6	3011.9	2930.7	2876.5	2815.6
172.5°	3438.3	3411.2	3390.9	3377.4	3296.2	3255.6	3228.5	3154.0	3154.0	3079.6	3032.2
175°	3492.5	3404.5	3465.4	3431.5	3404.5	3370.6	3357.1	3336.8	3316.5	3289.4	3262.3
177.5°	3519.5	3506.0	3519.5	3506.0	3499.2	3465.4	3485.7	3465.4	3458.6	3451.8	3431.5
180°	3533.1	3533.1	3533.1	3533.1	3533.1	3533.1	3533.1	3533.1	3533.1	3533.1	3533.1





TEST NUMBER: P508463

CATALOG NUMBER: ASYX-X-S4-X-U-HSS-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°	74.5	74.5	81.2	81.2	81.2	81.2	88.0	81.2	74.5
95°	81.2	88.0	88.0	88.0	94.8	94.8	94.8	94.8	94.8
97.5°	88.0	88.0	94.8	94.8	94.8	101.5	101.5	101.5	101.5
100°	94.8	94.8	94.8	101.5	101.5	101.5	101.5	101.5	101.5
102.5°	94.8	94.8	94.8	101.5	101.5	101.5	101.5	101.5	101.5
105°	101.5	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
107.5°	101.5	101.5	94.8	94.8	94.8	94.8	94.8	94.8	94.8
110°	108.3	101.5	94.8	94.8	94.8	94.8	94.8	94.8	88.0
112.5°	115.1	108.3	101.5	94.8	94.8	94.8	94.8	88.0	88.0
115°	121.8	115.1	108.3	108.3	101.5	101.5	101.5	94.8	94.8
117.5°	128.6	121.8	115.1	115.1	108.3	108.3	101.5	101.5	101.5
120°	135.4	135.4	128.6	121.8	121.8	115.1	115.1	108.3	108.3
122.5°	148.9	135.4	135.4	135.4	135.4	128.6	121.8	121.8	121.8
125°	155.7	148.9	148.9	148.9	142.1	142.1	135.4	128.6	128.6
127.5°	169.2	162.4	162.4	155.7	155.7	148.9	148.9	142.1	142.1
130°	182.7	176.0	169.2	169.2	169.2	162.4	162.4	155.7	155.7
132.5°	196.3	189.5	189.5	182.7	182.7	176.0	176.0	169.2	169.2
135°	216.6	203.0	203.0	203.0	196.3	189.5	189.5	189.5	182.7
137.5°	230.1	223.4	216.6	209.8	209.8	209.8	203.0	203.0	203.0
140°	264.0	243.7	236.9	230.1	230.1	223.4	223.4	223.4	223.4
142.5°	304.6	284.3	264.0	257.2	250.4	243.7	243.7	236.9	236.9
145°	372.3	338.4	311.3	304.6	291.0	277.5	277.5	270.7	270.7
147.5°	453.5	412.9	379.0	365.5	358.7	345.2	331.6	324.9	318.1
150°	568.5	507.6	473.8	460.2	446.7	419.6	406.1	399.3	399.3
152.5°	717.4	649.8	595.6	568.5	555.0	527.9	507.6	500.9	507.6
155°	900.2	819.0	764.8	731.0	703.9	670.1	656.5	649.8	636.2
157.5°	1157.4	1049.1	967.9	940.8	907.0	873.1	852.8	832.5	819.0
160°	1434.9	1313.1	1238.6	1204.8	1164.2	1110.0	1082.9	1055.9	1042.3
162.5°	1739.5	1637.9	1549.9	1495.8	1475.5	1407.8	1380.7	1346.9	1353.7
165°	2077.9	1969.6	1901.9	1861.3	1807.1	1773.3	1753.0	1705.6	1685.3
167.5°	2436.6	2314.8	2280.9	2226.8	2179.4	2132.0	2132.0	2111.7	2091.4
170°	2707.3	2680.3	2639.6	2578.7	2572.0	2538.1	2538.1	2517.8	2524.6
172.5°	2964.5	2923.9	2923.9	2903.6	2883.3	2869.8	2835.9	2849.5	2849.5
175°	3221.7	3201.4	3187.9	3133.7	3147.3	3147.3	3127.0	3127.0	3140.5
177.5°	3431.5	3431.5	3418.0	3411.2	3404.5	3411.2	3418.0	3424.8	3411.2
180°	3533.1	3533.1	3533.1	3533.1	3533.1	3533.1	3533.1	3533.1	3533.1

(END OF REPORT)