

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: P508490

Luminaire Tested: **ASYX-X-SL-X-U-W-L40-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-840-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: AMETRIX
Catalog Number: ASYX-X-SL-X-U-W-L40-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(1) AF LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

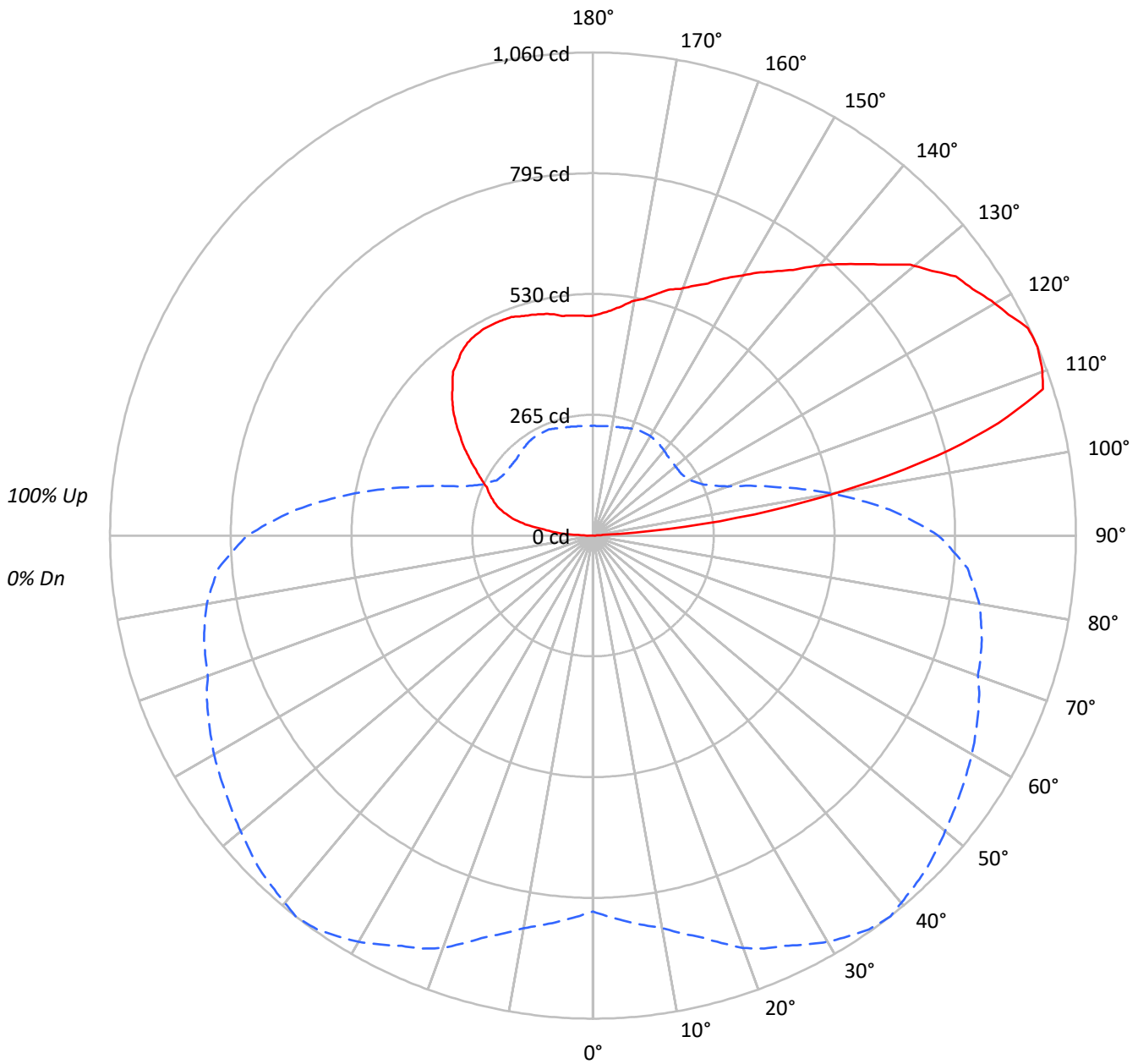
Lumens per Lamp: N/A
Luminaire Lumens: 3185.6 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Indirect

Input Watts (W): 26.8
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: P508490
CATALOG NUMBER: ASYX-X-SL-X-U-W-L40-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot



— Vertical Plane Through 38° 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									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°	29591	32901	41843
100°	80657	62458	38085
105°	80798	66708	34951
110°	90021	82053	29432
115°	94940	82287	24512
120°	89005	72471	22759
125°	77760	61989	22640
130°	66889	51449	23457
135°	56743	44157	23869
140°	47617	37584	24635
145°	40257	33072	24699
150°	34260	29318	24769
155°	30000	26243	24095
160°	27019	23913	23446
165°	24775	22506	22457
170°	23014	21436	21532
175°	21532	20897	20798



TEST NUMBER: P508490

CATALOG NUMBER: ASYX-X-SL-X-U-W-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°	130.4	4.1
100°-110°	471.9	14.8
110°-120°	636.2	20.0
120°-130°	605.5	19.0
130°-140°	504.5	15.8
140°-150°	382.2	12.0
150°-160°	260.1	8.2
160°-170°	147.8	4.6
170°-180°	47.0	1.5
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°	1238.5	38.9
90°-150°	2730.7	85.7
90°-180°	3186.0	100.0
0°-180°	3185.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	60	195	67	67	85	106
105°	486	992	401	177	210	527
115°	932	1014	808	256	241	899
125°	1036	927	826	344	302	925
135°	932	799	725	437	392	722
145°	766	681	629	497	470	484
155°	632	599	552	515	507	295
165°	556	539	505	502	504	159
175°	498	491	484	482	481	49
180°	481	481	481	481	481	



TEST NUMBER: P508490

CATALOG NUMBER: ASYX-X-SL-X-U-W-L40-1-UNV-X-X-X-STD

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	38°	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°	9.0	9.0	9.0	10.2	11.3	12.4	12.4	15.8	20.3	21.5	24.9
95°	59.9	68.9	102.8	118.6	119.7	123.1	123.1	155.9	194.3	203.3	212.4
97.5°	160.4	171.7	207.9	236.1	276.8	288.1	301.6	328.7	370.5	395.4	407.8
100°	325.3	327.6	346.8	372.8	416.8	441.7	472.2	546.7	584.0	584.0	570.5
102.5°	412.3	414.6	431.5	456.4	508.3	545.6	580.6	671.0	746.7	774.9	786.2
105°	485.7	493.6	511.7	546.7	610.0	651.8	684.6	787.4	875.5	924.0	961.3
107.5°	579.5	591.9	622.4	663.1	738.8	787.4	829.1	912.7	989.6	1038.1	1037.0
110°	715.1	721.8	753.5	806.6	872.1	910.5	936.5	995.2	1047.2	1051.7	1053.9
112.5°	824.6	849.5	874.3	911.6	962.4	980.5	992.9	1029.1	1055.1	1059.6	1051.7
115°	931.9	941.0	953.4	978.3	1002.0	1020.1	1022.3	1041.5	1047.2	1057.3	1039.3
117.5°	998.6	1003.1	1004.2	1013.3	1025.7	1035.9	1033.6	1039.3	1046.0	1032.5	1023.4
120°	1033.6	1038.1	1030.2	1033.6	1037.0	1039.3	1034.7	1037.0	1024.6	1014.4	1004.2
122.5°	1047.2	1046.0	1038.1	1038.1	1033.6	1032.5	1023.4	1015.5	1006.5	992.9	980.5
125°	1035.9	1040.4	1030.2	1022.3	1012.1	1029.1	1006.5	998.6	982.8	978.3	954.5
127.5°	1021.2	1030.2	1013.3	1005.4	995.2	991.8	978.3	967.0	955.7	943.2	927.4
130°	998.6	1002.0	986.2	978.3	968.1	957.9	955.7	930.8	922.9	915.0	893.5
132.5°	976.0	970.4	954.5	944.4	931.9	926.3	920.6	899.2	887.9	870.9	859.6
135°	931.9	933.1	918.4	907.1	890.1	890.1	880.0	864.2	849.5	834.8	820.1
137.5°	890.1	898.1	876.6	866.4	857.4	850.6	837.1	822.4	806.6	800.9	789.6
140°	847.2	848.4	831.4	822.4	815.6	803.2	795.3	781.7	776.1	765.9	750.1
142.5°	809.9	805.4	791.9	781.7	774.9	765.9	761.4	747.8	738.8	729.7	724.1
145°	765.9	764.8	748.9	742.2	736.5	733.1	725.2	715.1	710.5	702.6	702.6
147.5°	728.6	723.0	713.9	706.0	699.2	695.9	695.9	677.8	681.2	680.0	669.9
150°	689.1	687.9	675.5	672.1	666.5	668.7	666.5	658.6	658.6	654.1	647.3
152.5°	657.4	657.4	647.3	645.0	642.8	641.6	637.1	633.7	633.7	632.6	624.7
155°	631.5	631.5	623.6	622.4	619.0	617.9	615.6	612.3	610.0	607.7	601.0
157.5°	610.0	608.9	599.8	601.0	597.6	597.6	596.4	589.7	591.9	590.8	586.3
160°	589.7	588.5	579.5	582.9	580.6	580.6	580.6	576.1	573.9	573.9	563.7
162.5°	571.6	573.9	564.8	563.7	564.8	564.8	560.3	556.9	560.3	563.7	553.5
165°	555.8	553.5	550.1	549.0	546.7	544.5	546.7	544.5	542.2	546.7	543.4
167.5°	540.0	542.2	535.4	533.2	533.2	537.7	534.3	529.8	532.1	530.9	524.1
170°	526.4	528.7	519.6	519.6	519.6	519.6	516.2	512.9	518.5	520.8	512.9
172.5°	512.9	516.2	508.3	507.2	506.1	508.3	506.1	502.7	509.5	506.1	502.7
175°	498.2	503.8	495.9	494.8	497.0	497.0	494.8	492.5	497.0	494.8	492.5
177.5°	491.4	491.4	483.5	484.6	484.6	483.5	486.9	485.7	486.9	486.9	491.4
180°	481.2	481.2	481.2	481.2	481.2	481.2	481.2	481.2	481.2	481.2	481.2



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CATALOG NUMBER: ASYX-X-SL-X-U-W-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°	26.0	30.5	32.8	18.1	18.1	20.3	19.2	16.9	14.7	13.6	13.6
95°	195.4	185.3	190.9	171.7	149.1	131.0	129.9	131.0	90.4	67.8	66.6
97.5°	420.2	415.7	380.7	326.5	310.6	311.8	292.6	242.9	203.3	174.0	150.2
100°	546.7	532.1	516.2	527.5	495.9	471.1	436.0	392.0	345.7	306.1	251.9
102.5°	779.4	756.9	699.2	636.0	572.7	550.1	524.1	474.4	425.9	379.6	324.2
105°	991.8	953.4	856.3	765.9	680.0	654.1	620.2	564.8	508.3	462.0	401.0
107.5°	1042.6	1014.4	960.2	899.2	824.6	781.7	750.1	690.2	637.1	573.9	503.8
110°	1047.2	1018.9	985.0	943.2	907.1	882.2	861.9	816.7	778.3	723.0	651.8
112.5°	1034.7	1008.8	983.9	960.2	931.9	917.3	899.2	883.4	860.8	824.6	758.0
115°	1014.4	991.8	969.2	948.9	935.3	928.6	919.5	907.1	894.7	867.6	807.7
117.5°	995.2	969.2	948.9	942.1	929.7	919.5	918.4	916.1	908.2	894.7	837.1
120°	976.0	955.7	935.3	920.6	916.1	915.0	915.0	908.2	910.5	899.2	841.6
122.5°	945.5	929.7	912.7	906.0	886.8	891.3	893.5	889.0	898.1	890.1	835.9
125°	927.4	911.6	890.1	880.0	876.6	872.1	876.6	868.7	873.2	867.6	825.8
127.5°	896.9	876.6	865.3	857.4	855.1	839.3	847.2	848.4	849.5	840.4	803.2
130°	864.2	852.9	826.9	830.3	830.3	824.6	825.8	821.2	819.0	811.1	768.1
132.5°	840.4	825.8	808.8	804.3	799.8	798.6	798.6	790.7	790.7	780.6	752.3
135°	798.6	788.5	781.7	777.2	776.1	771.5	771.5	763.6	762.5	753.5	725.2
137.5°	769.3	759.1	753.5	750.1	746.7	738.8	743.3	736.5	729.7	727.5	700.4
140°	739.9	732.0	727.5	721.8	720.7	716.2	716.2	708.3	706.0	695.9	668.7
142.5°	715.1	710.5	701.5	699.2	691.3	692.5	686.8	687.9	678.9	667.6	646.1
145°	681.2	682.3	677.8	673.3	672.1	665.4	666.5	659.7	654.1	646.1	629.2
147.5°	663.1	663.1	656.3	650.7	646.1	645.0	639.4	640.5	631.5	620.2	608.9
150°	639.4	637.1	630.3	626.9	623.6	623.6	617.9	614.5	607.7	604.4	589.7
152.5°	622.4	616.8	613.4	606.6	606.6	601.0	596.4	594.2	588.5	581.8	570.5
155°	598.7	596.4	591.9	590.8	586.3	581.8	573.9	572.7	569.3	562.6	552.4
157.5°	579.5	582.9	576.1	572.7	565.9	564.8	556.9	558.0	551.3	546.7	537.7
160°	570.5	564.8	558.0	556.9	554.6	545.6	544.5	541.1	536.6	533.2	521.9
162.5°	550.1	549.0	545.6	543.4	535.4	535.4	521.9	527.5	524.1	520.8	515.1
165°	538.8	540.0	532.1	529.8	527.5	523.0	519.6	516.2	512.9	510.6	504.9
167.5°	524.1	521.9	519.6	515.1	516.2	512.9	509.5	507.2	504.9	502.7	498.2
170°	511.7	510.6	508.3	504.9	506.1	502.7	502.7	498.2	497.0	495.9	490.3
172.5°	501.6	501.6	499.3	499.3	498.2	494.8	492.5	490.3	490.3	488.0	486.9
175°	491.4	492.5	491.4	490.3	490.3	488.0	488.0	489.1	486.9	486.9	483.5
177.5°	483.5	483.5	483.5	483.5	483.5	483.5	483.5	482.4	483.5	482.4	479.0
180°	481.2	481.2	481.2	481.2	481.2	481.2	481.2	481.2	481.2	481.2	481.2



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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°	14.7	15.8	16.9	18.1	21.5	20.3	23.7	24.9	27.1	31.6	32.8
95°	59.9	59.9	58.7	58.7	56.5	56.5	55.4	54.2	59.9	66.6	75.7
97.5°	123.1	105.1	96.0	92.6	91.5	90.4	88.1	84.7	87.0	92.6	103.9
100°	207.9	171.7	142.3	125.4	122.0	116.4	114.1	113.0	113.0	124.3	142.3
102.5°	268.9	215.8	177.4	152.5	145.7	140.1	136.7	136.7	138.9	152.5	172.8
105°	340.0	272.2	213.5	180.7	175.1	167.2	161.5	162.7	164.9	177.4	195.4
107.5°	425.9	344.5	274.5	223.7	211.2	199.9	190.9	190.9	192.0	199.9	213.5
110°	554.6	449.6	344.5	268.9	248.5	236.1	214.6	214.6	213.5	219.1	228.2
112.5°	652.9	530.9	411.2	314.0	285.8	265.5	242.9	236.1	236.1	237.2	242.9
115°	711.7	585.1	457.5	355.8	318.6	293.7	265.5	257.6	254.2	256.4	254.2
117.5°	745.6	617.9	497.0	386.3	351.3	323.1	288.1	277.9	272.2	276.8	275.6
120°	762.5	647.3	528.7	418.0	381.8	349.1	311.8	301.6	297.1	297.1	298.2
122.5°	764.8	663.1	546.7	446.2	410.1	378.4	340.0	325.3	320.8	321.9	321.9
125°	756.9	660.8	563.7	468.8	433.8	402.1	362.6	350.2	340.0	344.5	345.7
127.5°	744.4	655.2	573.9	486.9	455.2	427.0	390.9	376.2	367.1	369.4	368.3
130°	726.4	648.4	582.9	502.7	475.6	447.3	415.7	402.1	389.7	390.9	392.0
132.5°	708.3	646.1	587.4	515.1	492.5	468.8	437.2	423.6	412.3	413.4	413.4
135°	689.1	640.5	581.8	523.0	511.7	486.9	460.9	446.2	437.2	437.2	434.9
137.5°	668.7	626.9	586.3	538.8	523.0	502.7	476.7	465.4	456.4	455.2	454.1
140°	650.7	612.3	580.6	542.2	530.9	515.1	493.6	484.6	472.2	469.9	476.7
142.5°	632.6	605.5	586.3	550.1	538.8	525.3	509.5	497.0	488.0	485.7	484.6
145°	614.5	598.7	577.2	547.9	543.4	529.8	512.9	509.5	499.3	497.0	497.0
147.5°	596.4	582.9	567.1	546.7	546.7	535.4	527.5	517.4	509.5	504.9	504.9
150°	580.6	569.3	561.4	545.6	544.5	535.4	528.7	524.1	515.1	512.9	511.7
152.5°	565.9	555.8	549.0	538.8	537.7	525.3	527.5	523.0	514.0	511.7	511.7
155°	547.9	546.7	538.8	528.7	533.2	526.4	520.8	526.4	512.9	515.1	515.1
157.5°	535.4	534.3	533.2	523.0	524.1	520.8	517.4	521.9	510.6	511.7	511.7
160°	521.9	519.6	519.6	510.6	517.4	510.6	511.7	514.0	507.2	508.3	511.7
162.5°	515.1	510.6	510.6	507.2	509.5	507.2	501.6	509.5	508.3	506.1	507.2
165°	503.8	502.7	504.9	498.2	503.8	497.0	499.3	502.7	500.4	501.6	502.7
167.5°	497.0	495.9	497.0	493.6	497.0	494.8	493.6	498.2	495.9	497.0	498.2
170°	491.4	491.4	492.5	489.1	492.5	489.1	492.5	492.5	491.4	491.4	493.6
172.5°	489.1	485.7	489.1	483.5	489.1	482.4	484.6	488.0	486.9	485.7	485.7
175°	484.6	483.5	486.9	481.2	484.6	481.2	481.2	484.6	483.5	482.4	486.9
177.5°	484.6	481.2	484.6	479.0	482.4	480.1	480.1	483.5	481.2	481.2	484.6
180°	481.2	481.2	481.2	481.2	481.2	481.2	481.2	481.2	481.2	481.2	481.2



TEST NUMBER: P508490

CATALOG NUMBER: ASYX-X-SL-X-U-W-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°	32.8	38.4	39.5	42.9	41.8	35.0	30.5	24.9	21.5
95°	85.9	94.9	103.9	102.8	106.2	99.4	92.6	89.2	84.7
97.5°	115.2	129.9	138.9	138.9	140.1	135.6	133.3	135.6	129.9
100°	162.7	172.8	176.2	175.1	171.7	163.8	159.3	157.0	153.6
102.5°	190.9	202.2	205.6	203.3	201.1	197.7	193.2	190.9	189.8
105°	210.1	220.3	224.8	223.7	222.5	216.9	207.9	211.2	210.1
107.5°	228.2	235.0	239.5	236.1	235.0	231.6	225.9	229.3	224.8
110°	239.5	245.1	246.3	246.3	244.0	240.6	236.1	237.2	233.8
112.5°	248.5	251.9	251.9	251.9	249.6	245.1	242.9	240.6	240.6
115°	258.7	256.4	257.6	257.6	255.3	248.5	245.1	242.9	240.6
117.5°	276.8	273.4	270.0	270.0	264.3	259.8	256.4	253.0	249.6
120°	293.7	291.4	289.2	285.8	282.4	276.8	271.1	266.6	264.3
122.5°	316.3	310.6	307.3	309.5	302.7	297.1	290.3	285.8	280.1
125°	341.1	336.6	331.0	328.7	323.1	318.6	312.9	308.4	301.6
127.5°	362.6	355.8	353.6	352.4	345.7	340.0	331.0	327.6	327.6
130°	387.5	379.6	380.7	375.0	369.4	360.4	351.3	351.3	350.2
132.5°	411.2	402.1	401.0	398.8	392.0	385.2	379.6	378.4	373.9
135°	430.4	423.6	422.5	420.2	414.6	407.8	398.8	401.0	392.0
137.5°	447.3	443.9	442.8	438.3	432.6	431.5	421.4	420.2	414.6
140°	466.5	459.8	464.3	458.6	451.9	449.6	436.0	438.3	438.3
142.5°	480.1	476.7	475.6	473.3	468.8	464.3	460.9	456.4	458.6
145°	493.6	491.4	489.1	489.1	482.4	480.1	473.3	473.3	469.9
147.5°	504.9	500.4	500.4	498.2	494.8	492.5	485.7	489.1	483.5
150°	504.9	507.2	504.9	504.9	506.1	504.9	499.3	497.0	498.2
152.5°	514.0	510.6	508.3	512.9	507.2	510.6	502.7	504.9	502.7
155°	509.5	511.7	512.9	510.6	510.6	510.6	507.2	512.9	507.2
157.5°	514.0	511.7	512.9	511.7	509.5	512.9	509.5	514.0	510.6
160°	511.7	509.5	511.7	510.6	508.3	512.9	512.9	516.2	511.7
162.5°	503.8	506.1	511.7	508.3	508.3	516.2	503.8	515.1	508.3
165°	501.6	502.7	504.9	507.2	502.7	506.1	506.1	507.2	503.8
167.5°	499.3	494.8	499.3	499.3	500.4	500.4	500.4	502.7	498.2
170°	494.8	485.7	494.8	494.8	492.5	492.5	491.4	498.2	492.5
172.5°	486.9	484.6	488.0	488.0	490.3	489.1	489.1	490.3	486.9
175°	482.4	483.5	488.0	484.6	483.5	484.6	481.2	484.6	481.2
177.5°	480.1	480.1	481.2	482.4	484.6	482.4	479.0	482.4	479.0
180°	481.2	481.2	481.2	481.2	481.2	481.2	481.2	481.2	481.2

(END OF REPORT)