

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: P508476

Luminaire Tested: **ASYX-X-SL-X-U-F-L30-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508476
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-SL-X-U-F-L30-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(1) AF LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD THROW OPTICS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

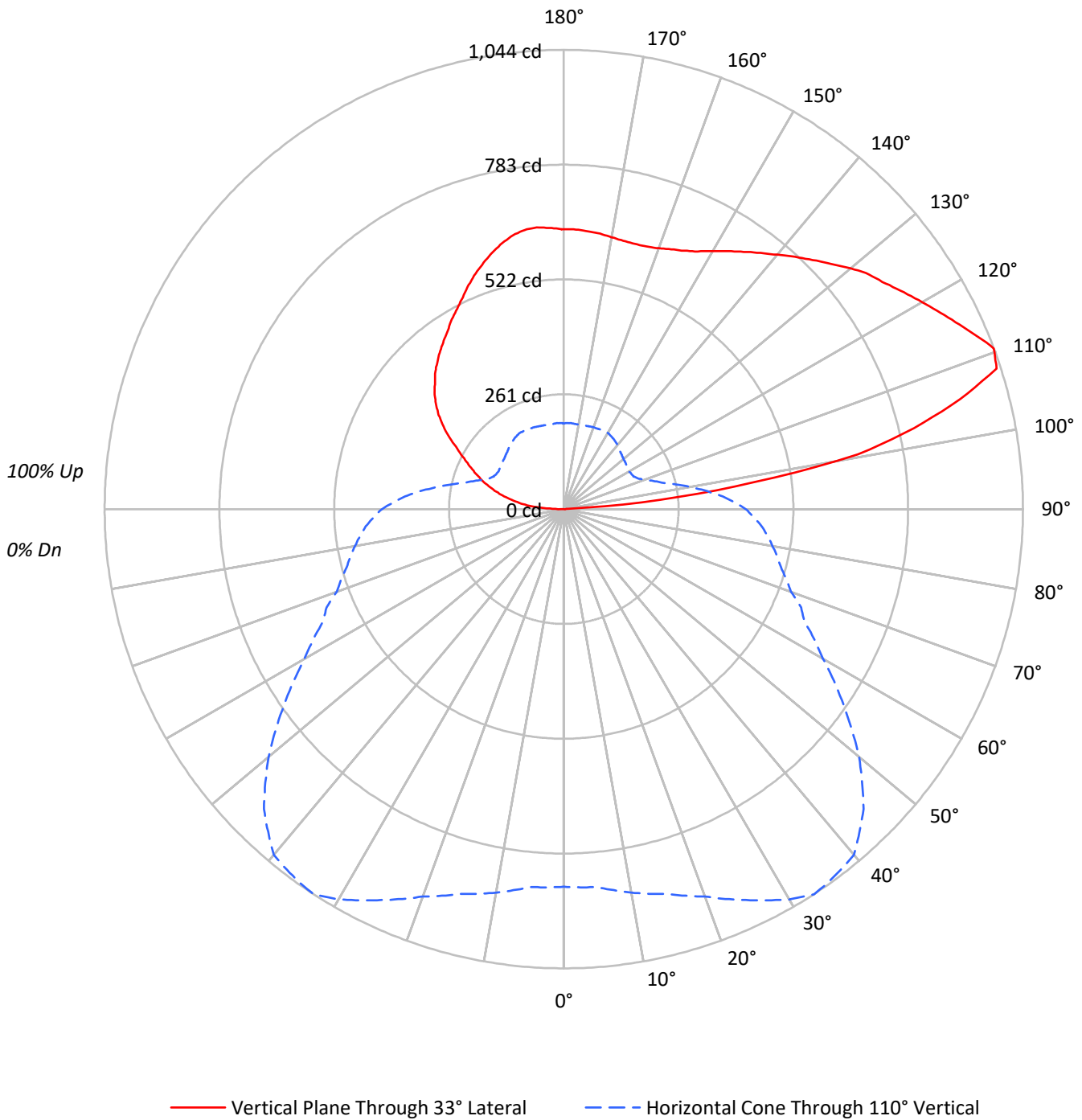
Lumens per Lamp: N/A
Luminaire Lumens: 3021.9 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Indirect

Input Watts (W): 26.9
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: P508476
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Luminous Intensity Polar Plot





TEST NUMBER: P508476

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									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°	44066	16895	36902
100°	111849	36002	30349
105°	108679	39858	25885
110°	108099	52092	24548
115°	94237	59059	22505
120°	78318	58048	21700
125°	66710	54100	22107
130°	57029	49594	23337
135°	49065	45588	23619
140°	42783	42081	23550
145°	37613	38811	23710
150°	32997	36243	23715
155°	30300	33996	24043
160°	28037	31693	24852
165°	27088	29999	26072
170°	26975	28654	27159
175°	27609	27743	27384



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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°	109.7	3.6
100°-110°	404.6	13.4
110°-120°	548.9	18.2
120°-130°	546.5	18.1
130°-140°	486.5	16.1
140°-150°	395.4	13.1
150°-160°	290.3	9.6
160°-170°	179.1	5.9
170°-180°	60.9	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°	1063.2	35.2
90°-150°	2491.6	82.5
90°-180°	3022.0	100.0
0°-180°	3021.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	89	132	34	52	75	148
105°	653	877	240	141	156	695
115°	925	952	580	225	221	905
125°	889	889	721	319	294	794
135°	806	809	749	403	388	628
145°	716	718	738	478	451	450
155°	638	660	716	561	506	294
165°	608	630	673	623	585	174
175°	639	633	642	642	634	60
180°	637	637	637	637	637	



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CATALOG NUMBER: ASYX-X-SL-X-U-F-L30-1-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°	5.2	5.2	5.2	6.2	7.3	7.3	9.3	10.4	9.3	13.5	15.6
95°	89.2	102.7	147.3	175.3	173.2	163.9	174.2	204.3	219.9	200.1	170.1
97.5°	224.0	232.3	324.6	368.1	406.5	425.2	441.8	428.3	435.6	431.4	393.0
100°	451.1	478.1	510.2	554.8	609.8	649.2	679.3	703.1	680.3	644.0	538.2
102.5°	577.6	587.0	608.7	631.6	690.7	719.7	749.8	801.6	817.2	809.9	752.9
105°	653.3	658.5	679.3	713.5	759.1	791.3	828.6	896.0	935.4	939.6	943.7
107.5°	748.7	760.1	785.0	806.8	860.7	898.1	931.3	1000.7	1035.0	1037.0	1022.5
110°	858.7	862.8	885.6	906.4	937.5	959.3	981.0	1024.6	1044.3	1041.2	1026.7
112.5°	917.8	923.0	931.3	938.5	953.0	962.4	975.9	1003.9	1015.3	1018.4	1003.9
115°	925.0	925.0	931.3	932.3	948.9	948.9	955.1	982.1	987.3	991.4	983.1
117.5°	918.8	920.9	925.0	923.0	930.2	940.6	938.5	955.1	961.3	958.2	961.3
120°	909.5	907.4	915.7	911.6	916.7	923.0	918.8	931.3	936.4	934.4	944.7
122.5°	900.1	900.1	903.3	902.2	900.1	898.1	899.1	907.4	912.6	911.6	917.8
125°	888.7	887.7	886.7	882.5	887.7	884.6	879.4	885.6	889.8	887.7	893.9
127.5°	870.1	871.1	869.0	867.0	860.7	859.7	864.9	861.8	872.1	865.9	872.1
130°	851.4	851.4	849.3	845.2	843.1	839.0	837.9	840.0	846.2	848.3	839.0
132.5°	836.9	829.6	824.4	821.3	821.3	817.2	815.1	817.2	820.3	825.5	826.5
135°	805.8	801.6	801.6	797.5	803.7	794.4	792.3	795.4	796.4	796.4	802.7
137.5°	788.1	777.8	773.6	772.6	771.6	768.4	768.4	772.6	773.6	772.6	777.8
140°	761.2	749.8	753.9	748.7	749.8	744.6	746.7	746.7	750.8	750.8	756.0
142.5°	745.6	729.0	727.0	723.9	724.9	722.8	733.2	725.9	730.1	737.3	734.2
145°	715.6	702.1	705.2	702.1	703.1	701.0	706.2	705.2	710.4	709.3	714.5
147.5°	683.4	682.4	683.4	681.3	683.4	681.3	687.6	686.5	691.7	694.8	695.9
150°	663.7	659.6	660.6	662.7	660.6	664.7	664.7	668.9	674.1	675.1	679.3
152.5°	643.0	641.9	647.1	644.0	646.1	646.1	649.2	650.2	657.5	658.5	668.9
155°	637.8	628.4	628.4	627.4	632.6	632.6	636.7	643.0	646.1	651.3	652.3
157.5°	619.1	618.1	618.1	622.2	617.0	623.3	632.6	629.5	637.8	638.8	643.0
160°	611.9	608.7	610.8	612.9	612.9	618.1	625.3	624.3	629.5	635.7	636.7
162.5°	616.0	605.6	606.7	611.9	609.8	617.0	618.1	620.1	625.3	627.4	633.6
165°	607.7	604.6	602.5	604.6	610.8	613.9	617.0	619.1	624.3	625.3	628.4
167.5°	610.8	609.8	609.8	611.9	616.0	616.0	621.2	620.1	625.3	625.3	627.4
170°	617.0	613.9	616.0	620.1	612.9	624.3	623.3	620.1	628.4	628.4	631.6
172.5°	625.3	622.2	623.3	623.3	623.3	629.5	630.5	631.6	632.6	631.6	631.6
175°	638.8	630.5	629.5	629.5	631.6	631.6	633.6	628.4	634.7	634.7	633.6
177.5°	635.7	632.6	637.8	632.6	630.5	634.7	637.8	633.6	636.7	633.6	636.7
180°	636.7	636.7	636.7	636.7	636.7	636.7	636.7	636.7	636.7	636.7	636.7



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CATALOG NUMBER: ASYX-X-SL-X-U-F-L30-1-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	12.4	11.4	11.4	11.4	11.4	10.4	9.3	9.3
95°	131.7	104.7	95.4	78.8	66.4	61.2	52.9	52.9	39.4	32.1	34.2
97.5°	330.8	257.2	204.3	154.5	147.3	137.9	136.9	116.1	102.7	93.3	80.9
100°	429.3	352.6	305.9	280.0	245.8	230.2	218.8	197.0	183.6	164.9	145.2
102.5°	637.8	529.9	438.7	361.9	310.1	288.3	273.8	251.0	234.4	215.7	190.8
105°	877.3	725.9	573.5	458.4	388.9	360.9	336.0	313.2	291.4	262.4	239.6
107.5°	941.6	831.7	716.6	588.0	491.6	463.6	434.5	396.1	367.1	342.2	302.8
110°	964.4	876.3	776.7	681.3	603.6	583.9	549.6	511.3	482.2	452.1	413.8
112.5°	955.1	900.1	820.3	735.3	672.0	652.3	627.4	603.6	588.0	565.2	514.4
115°	952.0	907.4	851.4	775.7	718.7	696.9	677.2	655.4	651.3	635.7	579.7
117.5°	938.5	908.4	865.9	804.7	753.9	739.4	719.7	702.1	700.0	684.4	635.7
120°	929.2	904.3	868.0	827.6	784.0	768.4	751.9	738.4	732.1	720.7	674.1
122.5°	907.4	898.1	870.1	835.9	796.4	789.2	773.6	750.8	761.2	748.7	704.1
125°	888.7	883.6	876.3	834.8	806.8	797.5	786.1	772.6	775.7	767.4	720.7
127.5°	869.0	868.0	862.8	837.9	812.0	807.9	794.4	784.0	781.9	773.6	732.1
130°	853.5	852.4	845.2	828.6	812.0	811.0	797.5	789.2	788.1	780.9	740.4
132.5°	830.7	830.7	834.8	818.2	807.9	804.7	798.5	788.1	791.3	775.7	744.6
135°	808.9	809.9	813.0	804.7	811.0	799.6	793.3	779.9	786.1	779.9	748.7
137.5°	784.0	787.1	793.3	790.2	793.3	794.4	786.1	783.0	783.0	776.7	747.7
140°	753.9	766.4	777.8	776.7	783.0	781.9	778.8	764.3	777.8	773.6	748.7
142.5°	740.4	747.7	761.2	758.1	771.6	771.6	769.5	768.4	771.6	764.3	744.6
145°	717.6	729.0	739.4	745.6	753.9	762.2	759.1	761.2	762.2	762.2	738.4
147.5°	703.1	715.6	729.0	731.1	745.6	747.7	748.7	751.9	758.1	749.8	740.4
150°	687.6	695.9	711.4	717.6	733.2	736.3	735.3	739.4	749.8	743.6	729.0
152.5°	663.7	681.3	694.8	704.1	715.6	722.8	723.9	723.9	733.2	733.2	724.9
155°	659.6	668.9	681.3	690.7	703.1	710.4	711.4	711.4	720.7	717.6	715.6
157.5°	650.2	662.7	673.0	676.1	691.7	697.9	697.9	700.0	708.3	710.4	703.1
160°	644.0	650.2	662.7	672.0	680.3	687.6	688.6	690.7	695.9	694.8	691.7
162.5°	634.7	644.0	655.4	660.6	669.9	677.2	676.1	676.1	685.5	687.6	683.4
165°	629.5	639.9	653.3	656.4	662.7	666.8	665.8	668.9	677.2	675.1	673.0
167.5°	631.6	636.7	648.1	647.1	654.4	657.5	657.5	655.4	660.6	653.3	659.6
170°	634.7	634.7	640.9	643.0	649.2	652.3	649.2	649.2	652.3	654.4	655.4
172.5°	635.7	634.7	639.9	638.8	640.9	646.1	643.0	638.8	645.0	649.2	644.0
175°	632.6	633.6	641.9	639.9	636.7	641.9	636.7	635.7	645.0	644.0	641.9
177.5°	629.5	629.5	634.7	630.5	637.8	637.8	632.6	632.6	643.0	635.7	633.6
180°	636.7	636.7	636.7	636.7	636.7	636.7	636.7	636.7	636.7	636.7	636.7



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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°	10.4	11.4	12.4	14.5	15.6	16.6	18.7	20.7	23.9	23.9	28.0
95°	33.2	34.2	34.2	36.3	37.3	37.3	38.4	42.5	46.7	51.9	61.2
97.5°	70.5	62.2	60.1	60.1	61.2	61.2	62.2	64.3	67.4	73.6	83.0
100°	124.4	105.8	92.3	85.0	83.0	81.9	83.0	83.0	88.1	96.4	106.8
102.5°	162.8	137.9	115.1	104.7	100.6	101.6	100.6	102.7	109.9	117.2	128.6
105°	205.3	173.2	144.1	128.6	122.4	121.3	121.3	123.4	131.7	141.0	149.3
107.5°	263.4	223.0	180.4	157.6	148.3	146.2	146.2	149.3	154.5	160.7	170.1
110°	356.7	290.4	231.3	195.0	182.5	175.3	171.1	174.2	177.3	182.5	189.8
112.5°	443.9	361.9	284.1	229.2	212.6	201.2	195.0	195.0	199.1	203.3	208.4
115°	504.0	412.7	328.7	264.4	240.6	230.2	216.7	217.8	220.9	225.0	228.1
117.5°	557.9	460.4	366.1	297.6	270.7	254.1	240.6	237.5	243.7	248.9	251.0
120°	596.3	501.9	403.4	331.9	300.7	282.1	263.4	260.3	266.5	267.6	277.9
122.5°	628.4	532.0	435.6	361.9	328.7	313.2	290.4	286.2	290.4	297.6	305.9
125°	649.2	559.0	464.6	389.9	358.8	338.1	314.2	311.1	314.2	319.4	328.7
127.5°	665.8	580.7	492.6	419.0	382.7	366.1	342.2	336.0	340.1	342.2	352.6
130°	678.2	605.6	518.5	447.0	414.8	398.2	366.1	359.9	361.9	367.1	372.3
132.5°	690.7	621.2	544.4	476.0	444.9	426.2	395.1	381.6	382.7	386.8	392.0
135°	699.0	637.8	571.4	505.0	470.8	456.3	423.1	409.6	404.4	403.4	409.6
137.5°	707.3	653.3	592.1	532.0	503.0	486.4	447.0	431.4	426.2	425.2	427.3
140°	714.5	666.8	610.8	561.0	532.0	512.3	476.0	456.3	448.0	443.9	445.9
142.5°	717.6	678.2	630.5	592.1	556.9	534.1	504.0	484.3	466.7	461.5	457.3
145°	719.7	695.9	649.2	611.9	584.9	571.4	535.1	509.2	488.4	478.1	476.0
147.5°	719.7	694.8	661.6	628.4	605.6	591.1	551.7	535.1	518.5	500.9	492.6
150°	717.6	706.2	671.0	645.0	621.2	609.8	581.8	550.7	533.0	520.6	511.3
152.5°	712.4	696.9	676.1	653.3	635.7	628.4	596.3	576.6	557.9	539.3	532.0
155°	707.3	694.8	679.3	660.6	646.1	636.7	613.9	594.2	580.7	561.0	553.8
157.5°	701.0	692.7	679.3	668.9	652.3	646.1	623.3	609.8	598.4	578.7	569.3
160°	691.7	686.5	678.2	663.7	656.4	651.3	632.6	622.2	610.8	596.3	589.0
162.5°	682.4	683.4	673.0	669.9	658.5	654.4	641.9	630.5	619.1	610.8	604.6
165°	675.1	679.3	668.9	658.5	658.5	656.4	643.0	637.8	632.6	623.3	616.0
167.5°	661.6	666.8	666.8	654.4	653.3	656.4	648.1	643.0	638.8	631.6	627.4
170°	659.6	659.6	652.3	653.3	656.4	649.2	644.0	643.0	643.0	638.8	635.7
172.5°	647.1	653.3	650.2	648.1	645.0	645.0	641.9	643.0	640.9	641.9	640.9
175°	643.0	644.0	645.0	644.0	640.9	640.9	639.9	640.9	641.9	641.9	639.9
177.5°	636.7	639.9	645.0	639.9	641.9	637.8	636.7	638.8	638.8	639.9	637.8
180°	636.7	636.7	636.7	636.7	636.7	636.7	636.7	636.7	636.7	636.7	636.7



TEST NUMBER: P508476

CATALOG NUMBER: ASYX-X-SL-X-U-F-L30-1-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°	31.1	33.2	34.2	35.3	36.3	33.2	33.2	30.1	28.0
95°	66.4	71.6	71.6	71.6	74.7	76.7	75.7	74.7	74.7
97.5°	90.2	98.5	104.7	105.8	105.8	105.8	106.8	106.8	104.7
100°	114.1	118.2	122.4	123.4	122.4	122.4	121.3	123.4	122.4
102.5°	136.9	141.0	142.1	143.1	142.1	141.0	139.0	141.0	136.9
105°	156.6	160.7	159.7	158.7	157.6	155.6	153.5	156.6	155.6
107.5°	178.4	179.4	180.4	181.5	177.3	176.3	176.3	178.4	177.3
110°	196.0	200.1	199.1	198.1	198.1	196.0	195.0	196.0	195.0
112.5°	214.7	216.7	215.7	215.7	214.7	211.6	208.4	209.5	208.4
115°	234.4	235.4	234.4	232.3	230.2	228.1	224.0	221.9	220.9
117.5°	255.1	254.1	252.0	251.0	248.9	247.9	241.6	238.5	237.5
120°	279.0	275.9	271.7	270.7	267.6	266.5	258.2	253.0	252.0
122.5°	308.0	302.8	294.5	290.4	289.3	286.2	275.9	273.8	270.7
125°	332.9	330.8	325.6	322.5	318.4	309.0	297.6	292.4	294.5
127.5°	356.7	355.7	353.6	349.5	344.3	340.1	330.8	322.5	320.4
130°	376.4	377.5	374.4	371.3	368.1	364.0	353.6	348.4	348.4
132.5°	395.1	396.1	398.2	389.9	387.9	383.7	374.4	368.1	370.2
135°	409.6	411.7	408.6	405.5	403.4	399.3	389.9	386.8	387.9
137.5°	429.3	427.3	424.1	422.1	416.9	415.9	408.6	403.4	401.3
140°	441.8	442.8	442.8	437.6	432.4	430.4	423.1	417.9	419.0
142.5°	458.4	454.2	456.3	451.1	448.0	444.9	435.6	434.5	434.5
145°	470.8	468.7	467.7	463.6	462.5	456.3	453.2	448.0	451.1
147.5°	484.3	484.3	484.3	475.0	472.9	469.8	466.7	462.5	465.6
150°	504.0	496.7	494.7	489.5	485.3	483.3	476.0	473.9	477.0
152.5°	519.6	511.3	505.0	501.9	500.9	497.8	493.6	490.5	490.5
155°	538.2	526.8	526.8	515.4	512.3	510.2	506.1	505.0	506.1
157.5°	557.9	547.6	542.4	536.1	531.0	528.9	523.7	521.6	523.7
160°	572.4	571.4	560.0	556.9	551.7	548.6	547.6	542.4	542.4
162.5°	595.3	580.7	578.7	575.6	571.4	567.3	565.2	563.1	565.2
165°	607.7	603.6	598.4	594.2	591.1	590.1	583.9	585.9	584.9
167.5°	622.2	619.1	613.9	610.8	611.9	607.7	607.7	602.5	603.6
170°	632.6	634.7	628.4	625.3	623.3	623.3	619.1	619.1	621.2
172.5°	639.9	643.0	637.8	635.7	633.6	635.7	631.6	630.5	632.6
175°	641.9	646.1	641.9	640.9	638.8	645.0	637.8	637.8	633.6
177.5°	639.9	640.9	645.0	638.8	638.8	640.9	641.9	633.6	638.8
180°	636.7	636.7	636.7	636.7	636.7	636.7	636.7	636.7	636.7

(END OF REPORT)