

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: P508478

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

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508478
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-L40-1-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

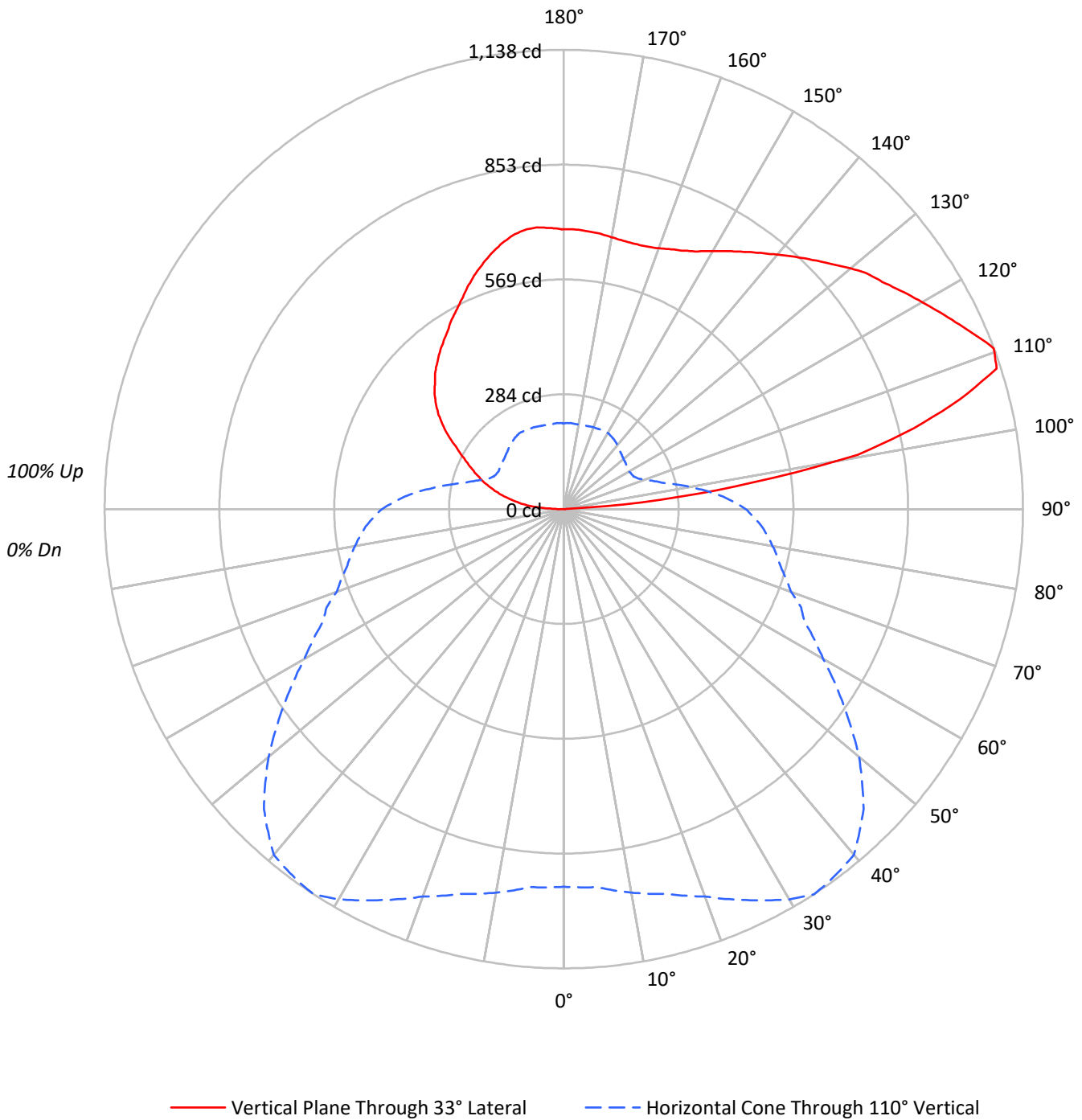
Lumens per Lamp: N/A
Luminaire Lumens: 3291.7 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Indirect

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



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Luminous Intensity Polar Plot





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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				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°	47968	18427	40163
100°	121841	39201	33051
105°	118394	43402	28180
110°	117741	56737	26738
115°	102653	64336	24512
120°	85310	63232	23638
125°	72671	58934	24081
130°	62120	54028	25427
135°	53443	49662	25726
140°	46600	45841	25652
145°	40966	42275	25829
150°	35945	39480	25833
155°	33003	37027	26190
160°	30538	34525	27070
165°	29508	32678	28398
170°	29384	31212	29581
175°	30077	30220	29831



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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°	119.5	3.6
100°-110°	440.7	13.4
110°-120°	598.0	18.2
120°-130°	595.3	18.1
130°-140°	530.0	16.1
140°-150°	430.6	13.1
150°-160°	316.2	9.6
160°-170°	195.1	5.9
170°-180°	66.3	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°	1158.1	35.2
90°-150°	2714.0	82.5
90°-180°	3292.0	100.0
0°-180°	3291.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	97	144	37	56	81	161
105°	712	956	261	154	169	757
115°	1008	1037	632	245	241	985
125°	968	968	785	348	321	865
135°	878	881	816	439	422	684
145°	779	782	804	521	491	490
155°	695	718	779	611	551	321
165°	662	686	733	679	637	189
175°	696	689	699	699	690	65
180°	694	694	694	694	694	



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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°	5.6	5.6	5.6	6.8	7.9	7.9	10.2	11.3	10.2	14.7	16.9
95°	97.1	111.8	160.4	190.9	188.6	178.5	189.8	222.5	239.5	218.0	185.3
97.5°	244.0	253.0	353.6	401.0	442.8	463.1	481.2	466.5	474.4	469.9	428.1
100°	491.4	520.8	555.8	604.4	664.2	707.1	739.9	765.9	741.0	701.5	586.3
102.5°	629.2	639.4	663.1	687.9	752.3	784.0	816.7	873.2	890.1	882.2	820.1
105°	711.7	717.3	739.9	777.2	826.9	861.9	902.6	976.0	1018.9	1023.4	1028.0
107.5°	815.6	828.0	855.1	878.9	937.6	978.3	1014.4	1090.1	1127.4	1129.6	1113.8
110°	935.3	939.9	964.7	987.3	1021.2	1044.9	1068.6	1116.1	1137.5	1134.1	1118.3
112.5°	999.7	1005.4	1014.4	1022.3	1038.1	1048.3	1063.0	1093.5	1105.9	1109.3	1093.5
115°	1007.6	1007.6	1014.4	1015.5	1033.6	1033.6	1040.4	1069.8	1075.4	1079.9	1070.9
117.5°	1000.9	1003.1	1007.6	1005.4	1013.3	1024.6	1022.3	1040.4	1047.2	1043.8	1047.2
120°	990.7	988.4	997.5	992.9	998.6	1005.4	1000.9	1014.4	1020.1	1017.8	1029.1
122.5°	980.5	980.5	983.9	982.8	980.5	978.3	979.4	988.4	994.1	992.9	999.7
125°	968.1	967.0	965.8	961.3	967.0	963.6	957.9	964.7	969.2	967.0	973.7
127.5°	947.8	948.9	946.6	944.4	937.6	936.5	942.1	938.7	950.0	943.2	950.0
130°	927.4	927.4	925.2	920.6	918.4	913.9	912.7	915.0	921.8	924.0	913.9
132.5°	911.6	903.7	898.1	894.7	894.7	890.1	887.9	890.1	893.5	899.2	900.3
135°	877.7	873.2	873.2	868.7	875.5	865.3	863.0	866.4	867.6	867.6	874.3
137.5°	858.5	847.2	842.7	841.6	840.4	837.1	837.1	841.6	842.7	841.6	847.2
140°	829.1	816.7	821.2	815.6	816.7	811.1	813.3	813.3	817.9	817.9	823.5
142.5°	812.2	794.1	791.9	788.5	789.6	787.4	798.6	790.7	795.3	803.2	799.8
145°	779.4	764.8	768.1	764.8	765.9	763.6	769.3	768.1	773.8	772.7	778.3
147.5°	744.4	743.3	744.4	742.2	744.4	742.2	748.9	747.8	753.5	756.9	758.0
150°	723.0	718.4	719.6	721.8	719.6	724.1	724.1	728.6	734.3	735.4	739.9
152.5°	700.4	699.2	704.9	701.5	703.8	703.8	707.1	708.3	716.2	717.3	728.6
155°	694.7	684.6	684.6	683.4	689.1	689.1	693.6	700.4	703.8	709.4	710.5
157.5°	674.4	673.3	673.3	677.8	672.1	678.9	689.1	685.7	694.7	695.9	700.4
160°	666.5	663.1	665.4	667.6	667.6	673.3	681.2	680.0	685.7	692.5	693.6
162.5°	671.0	659.7	660.8	666.5	664.2	672.1	673.3	675.5	681.2	683.4	690.2
165°	662.0	658.6	656.3	658.6	665.4	668.7	672.1	674.4	680.0	681.2	684.6
167.5°	665.4	664.2	664.2	666.5	671.0	671.0	676.6	675.5	681.2	681.2	683.4
170°	672.1	668.7	671.0	675.5	667.6	680.0	678.9	675.5	684.6	684.6	687.9
172.5°	681.2	677.8	678.9	678.9	678.9	685.7	686.8	687.9	689.1	687.9	687.9
175°	695.9	686.8	685.7	685.7	687.9	687.9	690.2	684.6	691.3	691.3	690.2
177.5°	692.5	689.1	694.7	689.1	686.8	691.3	694.7	690.2	693.6	690.2	693.6
180°	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6



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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°	14.7	14.7	14.7	13.6	12.4	12.4	12.4	12.4	11.3	10.2	10.2
95°	143.5	114.1	103.9	85.9	72.3	66.6	57.6	57.6	42.9	35.0	37.3
97.5°	360.4	280.1	222.5	168.3	160.4	150.2	149.1	126.5	111.8	101.7	88.1
100°	467.7	384.1	333.2	305.0	267.7	250.8	238.4	214.6	199.9	179.6	158.1
102.5°	694.7	577.2	477.8	394.2	337.8	314.0	298.2	273.4	255.3	235.0	207.9
105°	955.7	790.7	624.7	499.3	423.6	393.1	366.0	341.1	317.4	285.8	260.9
107.5°	1025.7	906.0	780.6	640.5	535.4	504.9	473.3	431.5	399.9	372.8	329.9
110°	1050.6	954.5	846.1	742.2	657.4	636.0	598.7	556.9	525.3	492.5	450.7
112.5°	1040.4	980.5	893.5	800.9	732.0	710.5	683.4	657.4	640.5	615.6	560.3
115°	1037.0	988.4	927.4	845.0	782.8	759.1	737.6	713.9	709.4	692.5	631.5
117.5°	1022.3	989.6	943.2	876.6	821.2	805.4	784.0	764.8	762.5	745.6	692.5
120°	1012.1	985.0	945.5	901.4	854.0	837.1	819.0	804.3	797.5	785.1	734.3
122.5°	988.4	978.3	947.8	910.5	867.6	859.6	842.7	817.9	829.1	815.6	767.0
125°	968.1	962.4	954.5	909.4	878.9	868.7	856.3	841.6	845.0	835.9	785.1
127.5°	946.6	945.5	939.9	912.7	884.5	880.0	865.3	854.0	851.7	842.7	797.5
130°	929.7	928.6	920.6	902.6	884.5	883.4	868.7	859.6	858.5	850.6	806.6
132.5°	904.8	904.8	909.4	891.3	880.0	876.6	869.8	858.5	861.9	845.0	811.1
135°	881.1	882.2	885.6	876.6	883.4	870.9	864.2	849.5	856.3	849.5	815.6
137.5°	854.0	857.4	864.2	860.8	864.2	865.3	856.3	852.9	852.9	846.1	814.5
140°	821.2	834.8	847.2	846.1	852.9	851.7	848.4	832.5	847.2	842.7	815.6
142.5°	806.6	814.5	829.1	825.8	840.4	840.4	838.2	837.1	840.4	832.5	811.1
145°	781.7	794.1	805.4	812.2	821.2	830.3	826.9	829.1	830.3	830.3	804.3
147.5°	765.9	779.4	794.1	796.4	812.2	814.5	815.6	819.0	825.8	816.7	806.6
150°	748.9	758.0	774.9	781.7	798.6	802.0	800.9	805.4	816.7	809.9	794.1
152.5°	723.0	742.2	756.9	767.0	779.4	787.4	788.5	788.5	798.6	798.6	789.6
155°	718.4	728.6	742.2	752.3	765.9	773.8	774.9	774.9	785.1	781.7	779.4
157.5°	708.3	721.8	733.1	736.5	753.5	760.2	760.2	762.5	771.5	773.8	765.9
160°	701.5	708.3	721.8	732.0	741.0	748.9	750.1	752.3	758.0	756.9	753.5
162.5°	691.3	701.5	713.9	719.6	729.7	737.6	736.5	736.5	746.7	748.9	744.4
165°	685.7	697.0	711.7	715.1	721.8	726.4	725.2	728.6	737.6	735.4	733.1
167.5°	687.9	693.6	706.0	704.9	712.8	716.2	716.2	713.9	719.6	711.7	718.4
170°	691.3	691.3	698.1	700.4	707.1	710.5	707.1	707.1	710.5	712.8	713.9
172.5°	692.5	691.3	697.0	695.9	698.1	703.8	700.4	695.9	702.6	707.1	701.5
175°	689.1	690.2	699.2	697.0	693.6	699.2	693.6	692.5	702.6	701.5	699.2
177.5°	685.7	685.7	691.3	686.8	694.7	694.7	689.1	689.1	700.4	692.5	690.2
180°	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6



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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°	11.3	12.4	13.6	15.8	16.9	18.1	20.3	22.6	26.0	26.0	30.5
95°	36.1	37.3	37.3	39.5	40.7	40.7	41.8	46.3	50.8	56.5	66.6
97.5°	76.8	67.8	65.5	65.5	66.6	66.6	67.8	70.0	73.4	80.2	90.4
100°	135.6	115.2	100.5	92.6	90.4	89.2	90.4	90.4	96.0	105.1	116.4
102.5°	177.4	150.2	125.4	114.1	109.6	110.7	109.6	111.8	119.7	127.6	140.1
105°	223.7	188.6	157.0	140.1	133.3	132.2	132.2	134.4	143.5	153.6	162.7
107.5°	286.9	242.9	196.6	171.7	161.5	159.3	159.3	162.7	168.3	175.1	185.3
110°	388.6	316.3	251.9	212.4	198.8	190.9	186.4	189.8	193.2	198.8	206.7
112.5°	483.5	394.2	309.5	249.6	231.6	219.1	212.4	212.4	216.9	221.4	227.1
115°	549.0	449.6	358.1	288.1	262.1	250.8	236.1	237.2	240.6	245.1	248.5
117.5°	607.7	501.6	398.8	324.2	294.8	276.8	262.1	258.7	265.5	271.1	273.4
120°	649.5	546.7	439.4	361.5	327.6	307.3	286.9	283.5	290.3	291.4	302.7
122.5°	684.6	579.5	474.4	394.2	358.1	341.1	316.3	311.8	316.3	324.2	333.2
125°	707.1	608.9	506.1	424.7	390.9	368.3	342.3	338.9	342.3	347.9	358.1
127.5°	725.2	632.6	536.6	456.4	416.8	398.8	372.8	366.0	370.5	372.8	384.1
130°	738.8	659.7	564.8	486.9	451.9	433.8	398.8	392.0	394.2	399.9	405.5
132.5°	752.3	676.6	593.1	518.5	484.6	464.3	430.4	415.7	416.8	421.4	427.0
135°	761.4	694.7	622.4	550.1	512.9	497.0	460.9	446.2	440.6	439.4	446.2
137.5°	770.4	711.7	645.0	579.5	547.9	529.8	486.9	469.9	464.3	463.1	465.4
140°	778.3	726.4	665.4	611.1	579.5	558.0	518.5	497.0	488.0	483.5	485.7
142.5°	781.7	738.8	686.8	645.0	606.6	581.8	549.0	527.5	508.3	502.7	498.2
145°	784.0	758.0	707.1	666.5	637.1	622.4	582.9	554.6	532.1	520.8	518.5
147.5°	784.0	756.9	720.7	684.6	659.7	643.9	601.0	582.9	564.8	545.6	536.6
150°	781.7	769.3	730.9	702.6	676.6	664.2	633.7	599.8	580.6	567.1	556.9
152.5°	776.1	759.1	736.5	711.7	692.5	684.6	649.5	628.1	607.7	587.4	579.5
155°	770.4	756.9	739.9	719.6	703.8	693.6	668.7	647.3	632.6	611.1	603.2
157.5°	763.6	754.6	739.9	728.6	710.5	703.8	678.9	664.2	651.8	630.3	620.2
160°	753.5	747.8	738.8	723.0	715.1	709.4	689.1	677.8	665.4	649.5	641.6
162.5°	743.3	744.4	733.1	729.7	717.3	712.8	699.2	686.8	674.4	665.4	658.6
165°	735.4	739.9	728.6	717.3	717.3	715.1	700.4	694.7	689.1	678.9	671.0
167.5°	720.7	726.4	726.4	712.8	711.7	715.1	706.0	700.4	695.9	687.9	683.4
170°	718.4	718.4	710.5	711.7	715.1	707.1	701.5	700.4	700.4	695.9	692.5
172.5°	704.9	711.7	708.3	706.0	702.6	702.6	699.2	700.4	698.1	699.2	698.1
175°	700.4	701.5	702.6	701.5	698.1	698.1	697.0	698.1	699.2	699.2	697.0
177.5°	693.6	697.0	702.6	697.0	699.2	694.7	693.6	695.9	695.9	697.0	694.7
180°	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6



TEST NUMBER: P508478

CATALOG NUMBER: ASYX-X-SL-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°	33.9	36.1	37.3	38.4	39.5	36.1	36.1	32.8	30.5
95°	72.3	77.9	77.9	77.9	81.3	83.6	82.5	81.3	81.3
97.5°	98.3	107.3	114.1	115.2	115.2	115.2	116.4	116.4	114.1
100°	124.3	128.8	133.3	134.4	133.3	133.3	132.2	134.4	133.3
102.5°	149.1	153.6	154.8	155.9	154.8	153.6	151.4	153.6	149.1
105°	170.6	175.1	174.0	172.8	171.7	169.4	167.2	170.6	169.4
107.5°	194.3	195.4	196.6	197.7	193.2	192.0	192.0	194.3	193.2
110°	213.5	218.0	216.9	215.8	215.8	213.5	212.4	213.5	212.4
112.5°	233.8	236.1	235.0	235.0	233.8	230.4	227.1	228.2	227.1
115°	255.3	256.4	255.3	253.0	250.8	248.5	244.0	241.7	240.6
117.5°	277.9	276.8	274.5	273.4	271.1	270.0	263.2	259.8	258.7
120°	303.9	300.5	296.0	294.8	291.4	290.3	281.3	275.6	274.5
122.5°	335.5	329.9	320.8	316.3	315.2	311.8	300.5	298.2	294.8
125°	362.6	360.4	354.7	351.3	346.8	336.6	324.2	318.6	320.8
127.5°	388.6	387.5	385.2	380.7	375.0	370.5	360.4	351.3	349.1
130°	410.1	411.2	407.8	404.4	401.0	396.5	385.2	379.6	379.6
132.5°	430.4	431.5	433.8	424.7	422.5	418.0	407.8	401.0	403.3
135°	446.2	448.5	445.1	441.7	439.4	434.9	424.7	421.4	422.5
137.5°	467.7	465.4	462.0	459.8	454.1	453.0	445.1	439.4	437.2
140°	481.2	482.4	482.4	476.7	471.1	468.8	460.9	455.2	456.4
142.5°	499.3	494.8	497.0	491.4	488.0	484.6	474.4	473.3	473.3
145°	512.9	510.6	509.5	504.9	503.8	497.0	493.6	488.0	491.4
147.5°	527.5	527.5	527.5	517.4	515.1	511.7	508.3	503.8	507.2
150°	549.0	541.1	538.8	533.2	528.7	526.4	518.5	516.2	519.6
152.5°	565.9	556.9	550.1	546.7	545.6	542.2	537.7	534.3	534.3
155°	586.3	573.9	573.9	561.4	558.0	555.8	551.3	550.1	551.3
157.5°	607.7	596.4	590.8	584.0	578.4	576.1	570.5	568.2	570.5
160°	623.6	622.4	610.0	606.6	601.0	597.6	596.4	590.8	590.8
162.5°	648.4	632.6	630.3	626.9	622.4	617.9	615.6	613.4	615.6
165°	662.0	657.4	651.8	647.3	643.9	642.8	636.0	638.2	637.1
167.5°	677.8	674.4	668.7	665.4	666.5	662.0	662.0	656.3	657.4
170°	689.1	691.3	684.6	681.2	678.9	678.9	674.4	674.4	676.6
172.5°	697.0	700.4	694.7	692.5	690.2	692.5	687.9	686.8	689.1
175°	699.2	703.8	699.2	698.1	695.9	702.6	694.7	694.7	690.2
177.5°	697.0	698.1	702.6	695.9	695.9	698.1	699.2	690.2	695.9
180°	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6

(END OF REPORT)