

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: P508398

Luminaire Tested: **ASYX-X-L6-X-U-F-L40-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508398
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-L6-X-U-F-L40-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(6) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

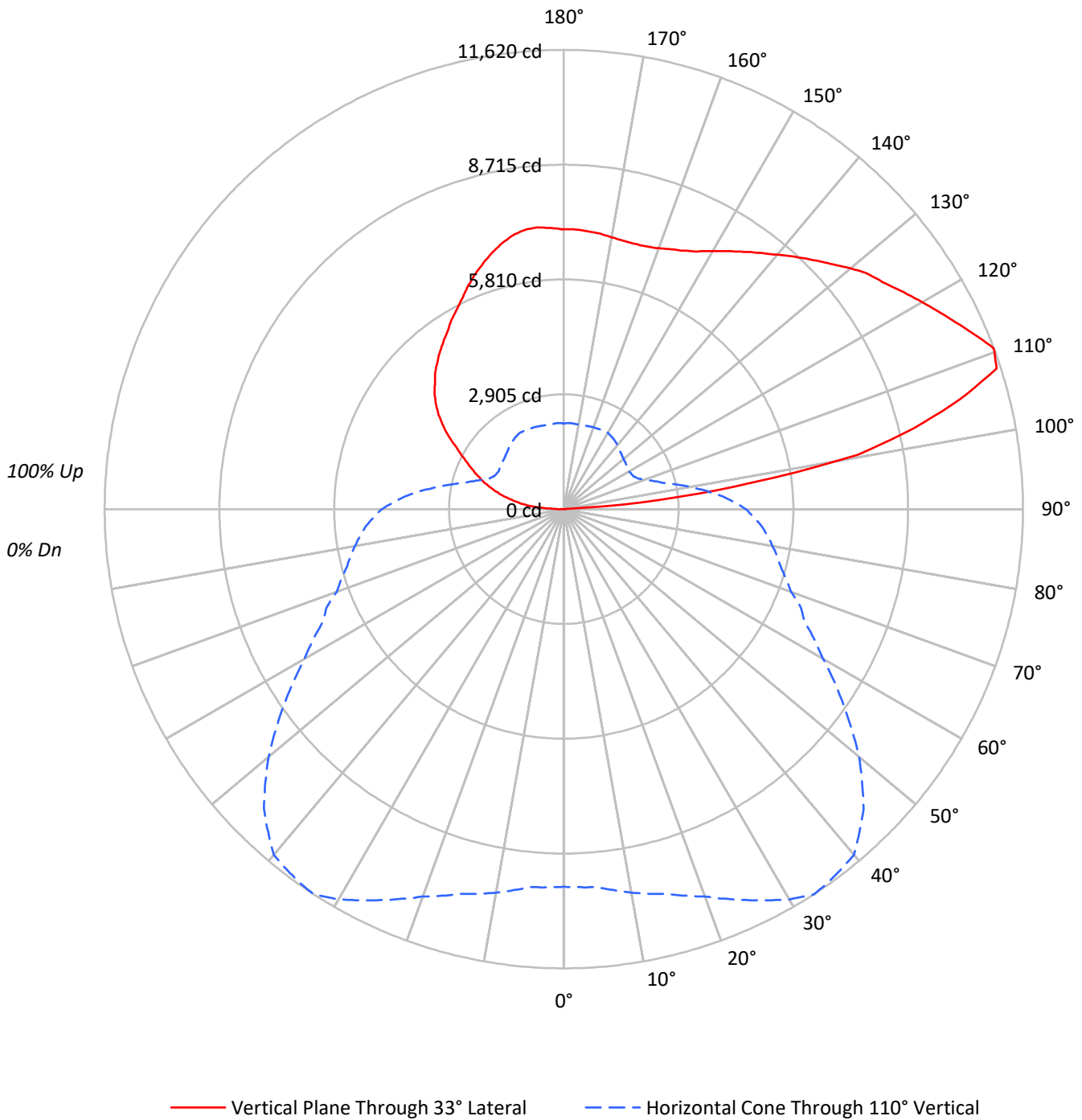
Lumens per Lamp: N/A
Luminaire Lumens: 33623.8 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
N/A
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
CIE Type: Indirect

Input Watts (W): 320.8
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: P508398
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Luminous Intensity Polar Plot





TEST NUMBER: P508398

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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°	81701	31353	68404
100°	207425	66756	56268
105°	201552	73903	47988
110°	200457	96597	45514
115°	174767	109523	41733
120°	145235	107643	40241
125°	123718	100331	40998
130°	105759	91976	43283
135°	90987	84547	43795
140°	79338	78042	43669
145°	69747	71971	43971
150°	61192	67215	43982
155°	56188	63040	44585
160°	51988	58773	46085
165°	50234	55634	48348
170°	50027	53139	50364
175°	51201	51451	50786



TEST NUMBER: P508398

CATALOG NUMBER: ASYX-X-L6-X-U-F-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°	1220.5	3.6
100°-110°	4501.5	13.4
110°-120°	6108.0	18.2
120°-130°	6080.9	18.1
130°-140°	5413.4	16.1
140°-150°	4399.0	13.1
150°-160°	3230.0	9.6
160°-170°	1993.3	5.9
170°-180°	677.2	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°	11830.1	35.2
90°-150°	27723.3	82.5
90°-180°	33624.0	100.0
0°-180°	33623.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	992	1465	381	577	831	1644
105°	7270	9762	2666	1569	1731	7737
115°	10293	10593	6450	2504	2458	10064
125°	9889	9889	8020	3554	3277	8839
135°	8966	9000	8331	4489	4316	6985
145°	7962	7985	8216	5319	5019	5007
155°	7096	7339	7962	6242	5631	3275
165°	6762	7004	7489	6935	6508	1931
175°	7108	7039	7143	7143	7050	668
180°	7085	7085	7085	7085	7085	



TEST NUMBER: P508398

CATALOG NUMBER: ASYX-X-L6-X-U-F-L40-1-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°	57.7	57.7	57.7	69.2	80.8	80.8	103.8	115.4	103.8	150.0	173.1
95°	992.3	1142.3	1638.5	1950.1	1927.0	1823.1	1938.5	2273.2	2446.2	2227.0	1892.4
97.5°	2492.4	2584.7	3611.7	4096.3	4523.2	4730.9	4915.6	4765.6	4846.3	4800.2	4373.2
100°	5019.4	5319.4	5677.1	6173.3	6784.9	7223.3	7558.0	7823.4	7569.5	7165.6	5988.7
102.5°	6427.2	6531.0	6773.3	7027.2	7684.9	8008.0	8342.6	8919.6	9092.6	9011.9	8377.2
105°	7269.5	7327.2	7558.0	7938.8	8446.5	8804.2	9219.6	9969.6	10408.1	10454.2	10500.4
107.5°	8331.1	8458.0	8734.9	8977.2	9577.3	9992.7	10361.9	11135.0	11515.8	11538.9	11377.3
110°	9554.2	9600.3	9854.2	10085.0	10431.1	10673.5	10915.8	11400.4	11619.7	11585.0	11423.5
112.5°	10211.9	10269.6	10361.9	10442.7	10604.2	10708.1	10858.1	11169.6	11296.6	11331.2	11169.6
115°	10292.7	10292.7	10361.9	10373.5	10558.1	10558.1	10627.3	10927.3	10985.0	11031.2	10938.9
117.5°	10223.4	10246.5	10292.7	10269.6	10350.4	10465.8	10442.7	10627.3	10696.5	10661.9	10696.5
120°	10119.6	10096.5	10188.8	10142.7	10200.4	10269.6	10223.4	10361.9	10419.6	10396.5	10511.9
122.5°	10015.7	10015.7	10050.4	10038.8	10015.7	9992.7	10004.2	10096.5	10154.2	10142.7	10211.9
125°	9888.8	9877.3	9865.7	9819.6	9877.3	9842.7	9785.0	9854.2	9900.4	9877.3	9946.5
127.5°	9681.1	9692.7	9669.6	9646.5	9577.3	9565.7	9623.4	9588.8	9704.2	9635.0	9704.2
130°	9473.4	9473.4	9450.3	9404.2	9381.1	9335.0	9323.4	9346.5	9415.7	9438.8	9335.0
132.5°	9311.9	9231.1	9173.4	9138.8	9138.8	9092.6	9069.6	9092.6	9127.3	9184.9	9196.5
135°	8965.7	8919.6	8919.6	8873.4	8942.6	8838.8	8815.7	8850.3	8861.9	8861.9	8931.1
137.5°	8769.6	8654.2	8608.0	8596.5	8584.9	8550.3	8550.3	8596.5	8608.0	8596.5	8654.2
140°	8469.5	8342.6	8388.8	8331.1	8342.6	8284.9	8308.0	8308.0	8354.2	8354.2	8411.8
142.5°	8296.5	8111.8	8088.8	8054.1	8065.7	8042.6	8158.0	8077.2	8123.4	8204.1	8169.5
145°	7961.8	7811.8	7846.4	7811.8	7823.4	7800.3	7858.0	7846.4	7904.1	7892.6	7950.3
147.5°	7604.1	7592.6	7604.1	7581.0	7604.1	7581.0	7650.3	7638.7	7696.4	7731.1	7742.6
150°	7384.9	7338.7	7350.3	7373.3	7350.3	7396.4	7396.4	7442.6	7500.3	7511.8	7558.0
152.5°	7154.1	7142.6	7200.3	7165.6	7188.7	7188.7	7223.3	7234.9	7315.7	7327.2	7442.6
155°	7096.4	6992.6	6992.6	6981.0	7038.7	7038.7	7084.9	7154.1	7188.7	7246.4	7258.0
157.5°	6888.7	6877.2	6877.2	6923.3	6865.6	6934.9	7038.7	7004.1	7096.4	7108.0	7154.1
160°	6807.9	6773.3	6796.4	6819.5	6819.5	6877.2	6957.9	6946.4	7004.1	7073.3	7084.9
162.5°	6854.1	6738.7	6750.2	6807.9	6784.9	6865.6	6877.2	6900.3	6957.9	6981.0	7050.3
165°	6761.8	6727.2	6704.1	6727.2	6796.4	6831.0	6865.6	6888.7	6946.4	6957.9	6992.6
167.5°	6796.4	6784.9	6784.9	6807.9	6854.1	6854.1	6911.8	6900.3	6957.9	6957.9	6981.0
170°	6865.6	6831.0	6854.1	6900.3	6819.5	6946.4	6934.9	6900.3	6992.6	6992.6	7027.2
172.5°	6957.9	6923.3	6934.9	6934.9	6934.9	7004.1	7015.6	7027.2	7038.7	7027.2	7027.2
175°	7108.0	7015.6	7004.1	7004.1	7027.2	7027.2	7050.3	6992.6	7061.8	7061.8	7050.3
177.5°	7073.3	7038.7	7096.4	7038.7	7015.6	7061.8	7096.4	7050.3	7084.9	7050.3	7084.9
180°	7084.9	7084.9	7084.9	7084.9	7084.9	7084.9	7084.9	7084.9	7084.9	7084.9	7084.9



TEST NUMBER: P508398

CATALOG NUMBER: ASYX-X-L6-X-U-F-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°	150.0	150.0	150.0	138.5	126.9	126.9	126.9	126.9	115.4	103.8	103.8
95°	1465.4	1165.4	1061.6	877.0	738.5	680.8	588.5	588.5	438.5	357.7	380.8
97.5°	3680.9	2861.6	2273.2	1719.3	1638.5	1534.7	1523.1	1292.4	1142.3	1038.5	900.0
100°	4777.1	3923.2	3404.0	3115.5	2734.7	2561.6	2434.7	2192.4	2042.4	1834.7	1615.4
102.5°	7096.4	5896.4	4880.9	4027.1	3450.1	3207.8	3046.3	2792.4	2607.8	2400.1	2123.2
105°	9761.9	8077.2	6381.0	5100.2	4327.1	4015.5	3738.6	3484.7	3242.4	2919.3	2665.5
107.5°	10477.3	9254.2	7973.4	6542.5	5469.4	5157.9	4834.8	4407.9	4084.8	3807.8	3369.4
110°	10731.2	9750.4	8642.6	7581.0	6715.6	6496.4	6115.6	5688.7	5365.6	5031.0	4604.0
112.5°	10627.3	10015.7	9127.3	8181.1	7477.2	7258.0	6981.0	6715.6	6542.5	6288.7	5723.3
115°	10592.7	10096.5	9473.4	8631.1	7996.4	7754.1	7534.9	7292.6	7246.4	7073.3	6450.2
117.5°	10442.7	10108.1	9635.0	8954.2	8388.8	8227.2	8008.0	7811.8	7788.7	7615.7	7073.3
120°	10338.8	10061.9	9658.0	9208.0	8723.4	8550.3	8365.7	8215.7	8146.5	8019.5	7500.3
122.5°	10096.5	9992.7	9681.1	9300.3	8861.9	8781.1	8608.0	8354.2	8469.5	8331.1	7834.9
125°	9888.8	9831.1	9750.4	9288.8	8977.2	8873.4	8746.5	8596.5	8631.1	8538.8	8019.5
127.5°	9669.6	9658.0	9600.3	9323.4	9034.9	8988.8	8838.8	8723.4	8700.3	8608.0	8146.5
130°	9496.5	9485.0	9404.2	9219.6	9034.9	9023.4	8873.4	8781.1	8769.6	8688.8	8238.8
132.5°	9242.6	9242.6	9288.8	9104.2	8988.8	8954.2	8884.9	8769.6	8804.2	8631.1	8284.9
135°	9000.3	9011.9	9046.5	8954.2	9023.4	8896.5	8827.2	8677.2	8746.5	8677.2	8331.1
137.5°	8723.4	8758.0	8827.2	8792.6	8827.2	8838.8	8746.5	8711.9	8711.9	8642.6	8319.5
140°	8388.8	8527.2	8654.2	8642.6	8711.9	8700.3	8665.7	8504.2	8654.2	8608.0	8331.1
142.5°	8238.8	8319.5	8469.5	8434.9	8584.9	8584.9	8561.9	8550.3	8584.9	8504.2	8284.9
145°	7984.9	8111.8	8227.2	8296.5	8388.8	8481.1	8446.5	8469.5	8481.1	8481.1	8215.7
147.5°	7823.4	7961.8	8111.8	8134.9	8296.5	8319.5	8331.1	8365.7	8434.9	8342.6	8238.8
150°	7650.3	7742.6	7915.7	7984.9	8158.0	8192.6	8181.1	8227.2	8342.6	8273.4	8111.8
152.5°	7384.9	7581.0	7731.1	7834.9	7961.8	8042.6	8054.1	8054.1	8158.0	8158.0	8065.7
155°	7338.7	7442.6	7581.0	7684.9	7823.4	7904.1	7915.7	7915.7	8019.5	7984.9	7961.8
157.5°	7234.9	7373.3	7488.7	7523.4	7696.4	7765.7	7765.7	7788.7	7881.1	7904.1	7823.4
160°	7165.6	7234.9	7373.3	7477.2	7569.5	7650.3	7661.8	7684.9	7742.6	7731.1	7696.4
162.5°	7061.8	7165.6	7292.6	7350.3	7454.1	7534.9	7523.4	7523.4	7627.2	7650.3	7604.1
165°	7004.1	7119.5	7269.5	7304.1	7373.3	7419.5	7408.0	7442.6	7534.9	7511.8	7488.7
167.5°	7027.2	7084.9	7211.8	7200.3	7281.0	7315.7	7315.7	7292.6	7350.3	7269.5	7338.7
170°	7061.8	7061.8	7131.0	7154.1	7223.3	7258.0	7223.3	7223.3	7258.0	7281.0	7292.6
172.5°	7073.3	7061.8	7119.5	7108.0	7131.0	7188.7	7154.1	7108.0	7177.2	7223.3	7165.6
175°	7038.7	7050.3	7142.6	7119.5	7084.9	7142.6	7084.9	7073.3	7177.2	7165.6	7142.6
177.5°	7004.1	7004.1	7061.8	7015.6	7096.4	7096.4	7038.7	7038.7	7154.1	7073.3	7050.3
180°	7084.9	7084.9	7084.9	7084.9	7084.9	7084.9	7084.9	7084.9	7084.9	7084.9	7084.9



TEST NUMBER: P508398

CATALOG NUMBER: ASYX-X-L6-X-U-F-L40-1-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°	115.4	126.9	138.5	161.5	173.1	184.6	207.7	230.8	265.4	265.4	311.5
95°	369.2	380.8	380.8	403.9	415.4	415.4	426.9	473.1	519.2	576.9	680.8
97.5°	784.6	692.3	669.3	669.3	680.8	680.8	692.3	715.4	750.0	819.3	923.1
100°	1384.7	1177.0	1027.0	946.2	923.1	911.6	923.1	923.1	980.8	1073.1	1188.5
102.5°	1811.6	1534.7	1280.8	1165.4	1119.3	1130.8	1119.3	1142.3	1223.1	1303.9	1430.8
105°	2284.7	1927.0	1603.9	1430.8	1361.6	1350.0	1350.0	1373.1	1465.4	1569.3	1661.6
107.5°	2930.9	2480.9	2007.8	1753.9	1650.1	1627.0	1627.0	1661.6	1719.3	1788.5	1892.4
110°	3969.4	3230.9	2573.2	2169.3	2030.8	1950.1	1903.9	1938.5	1973.1	2030.8	2111.6
112.5°	4938.6	4027.1	3161.7	2550.1	2365.5	2238.5	2169.3	2169.3	2215.5	2261.6	2319.3
115°	5607.9	4592.5	3657.8	2942.4	2677.0	2561.6	2411.6	2423.2	2457.8	2503.9	2538.6
117.5°	6207.9	5123.3	4073.2	3311.7	3011.6	2827.0	2677.0	2642.4	2711.6	2769.3	2792.4
120°	6634.9	5584.8	4488.6	3692.4	3346.3	3138.6	2930.9	2896.3	2965.5	2977.0	3092.4
122.5°	6992.6	5919.4	4846.3	4027.1	3657.8	3484.7	3230.9	3184.7	3230.9	3311.7	3404.0
125°	7223.3	6219.5	5169.4	4338.6	3992.5	3761.7	3496.3	3461.7	3496.3	3554.0	3657.8
127.5°	7408.0	6461.8	5481.0	4661.7	4257.8	4073.2	3807.8	3738.6	3784.8	3807.8	3923.2
130°	7546.4	6738.7	5769.4	4973.3	4615.6	4430.9	4073.2	4004.0	4027.1	4084.8	4142.5
132.5°	7684.9	6911.8	6057.9	5296.3	4950.2	4742.5	4396.3	4246.3	4257.8	4304.0	4361.7
135°	7777.2	7096.4	6357.9	5619.4	5238.7	5077.1	4707.9	4557.9	4500.2	4488.6	4557.9
137.5°	7869.5	7269.5	6588.7	5919.4	5596.4	5411.7	4973.3	4800.2	4742.5	4730.9	4754.0
140°	7950.3	7419.5	6796.4	6242.5	5919.4	5700.2	5296.3	5077.1	4984.8	4938.6	4961.7
142.5°	7984.9	7546.4	7015.6	6588.7	6196.4	5942.5	5607.9	5388.7	5192.5	5134.8	5088.6
145°	8008.0	7742.6	7223.3	6807.9	6507.9	6357.9	5954.1	5665.6	5434.8	5319.4	5296.3
147.5°	8008.0	7731.1	7361.8	6992.6	6738.7	6577.2	6138.7	5954.1	5769.4	5573.3	5481.0
150°	7984.9	7858.0	7465.7	7177.2	6911.8	6784.9	6473.3	6127.1	5931.0	5792.5	5688.7
152.5°	7927.2	7754.1	7523.4	7269.5	7073.3	6992.6	6634.9	6415.6	6207.9	6000.2	5919.4
155°	7869.5	7731.1	7558.0	7350.3	7188.7	7084.9	6831.0	6611.8	6461.8	6242.5	6161.8
157.5°	7800.3	7708.0	7558.0	7442.6	7258.0	7188.7	6934.9	6784.9	6657.9	6438.7	6334.8
160°	7696.4	7638.7	7546.4	7384.9	7304.1	7246.4	7038.7	6923.3	6796.4	6634.9	6554.1
162.5°	7592.6	7604.1	7488.7	7454.1	7327.2	7281.0	7142.6	7015.6	6888.7	6796.4	6727.2
165°	7511.8	7558.0	7442.6	7327.2	7327.2	7304.1	7154.1	7096.4	7038.7	6934.9	6854.1
167.5°	7361.8	7419.5	7419.5	7281.0	7269.5	7304.1	7211.8	7154.1	7108.0	7027.2	6981.0
170°	7338.7	7338.7	7258.0	7269.5	7304.1	7223.3	7165.6	7154.1	7154.1	7108.0	7073.3
172.5°	7200.3	7269.5	7234.9	7211.8	7177.2	7177.2	7142.6	7154.1	7131.0	7142.6	7131.0
175°	7154.1	7165.6	7177.2	7165.6	7131.0	7131.0	7119.5	7131.0	7142.6	7142.6	7119.5
177.5°	7084.9	7119.5	7177.2	7119.5	7142.6	7096.4	7084.9	7108.0	7108.0	7119.5	7096.4
180°	7084.9	7084.9	7084.9	7084.9	7084.9	7084.9	7084.9	7084.9	7084.9	7084.9	7084.9



TEST NUMBER: P508398

CATALOG NUMBER: ASYX-X-L6-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°	346.2	369.2	380.8	392.3	403.9	369.2	369.2	334.6	311.5
95°	738.5	796.2	796.2	796.2	830.8	853.9	842.3	830.8	830.8
97.5°	1003.9	1096.2	1165.4	1177.0	1177.0	1177.0	1188.5	1188.5	1165.4
100°	1269.3	1315.4	1361.6	1373.1	1361.6	1361.6	1350.0	1373.1	1361.6
102.5°	1523.1	1569.3	1580.8	1592.4	1580.8	1569.3	1546.2	1569.3	1523.1
105°	1742.4	1788.5	1777.0	1765.4	1753.9	1730.8	1707.8	1742.4	1730.8
107.5°	1984.7	1996.2	2007.8	2019.3	1973.1	1961.6	1961.6	1984.7	1973.1
110°	2180.8	2227.0	2215.5	2203.9	2203.9	2180.8	2169.3	2180.8	2169.3
112.5°	2388.5	2411.6	2400.1	2400.1	2388.5	2353.9	2319.3	2330.9	2319.3
115°	2607.8	2619.3	2607.8	2584.7	2561.6	2538.6	2492.4	2469.3	2457.8
117.5°	2838.6	2827.0	2803.9	2792.4	2769.3	2757.8	2688.6	2653.9	2642.4
120°	3104.0	3069.3	3023.2	3011.6	2977.0	2965.5	2873.2	2815.5	2803.9
122.5°	3427.0	3369.4	3277.0	3230.9	3219.3	3184.7	3069.3	3046.3	3011.6
125°	3704.0	3680.9	3623.2	3588.6	3542.4	3438.6	3311.7	3254.0	3277.0
127.5°	3969.4	3957.8	3934.8	3888.6	3830.9	3784.8	3680.9	3588.6	3565.5
130°	4188.6	4200.2	4165.5	4130.9	4096.3	4050.1	3934.8	3877.1	3877.1
132.5°	4396.3	4407.9	4430.9	4338.6	4315.5	4269.4	4165.5	4096.3	4119.4
135°	4557.9	4580.9	4546.3	4511.7	4488.6	4442.5	4338.6	4304.0	4315.5
137.5°	4777.1	4754.0	4719.4	4696.3	4638.6	4627.1	4546.3	4488.6	4465.5
140°	4915.6	4927.1	4927.1	4869.4	4811.7	4788.6	4707.9	4650.2	4661.7
142.5°	5100.2	5054.0	5077.1	5019.4	4984.8	4950.2	4846.3	4834.8	4834.8
145°	5238.7	5215.6	5204.0	5157.9	5146.3	5077.1	5042.5	4984.8	5019.4
147.5°	5388.7	5388.7	5388.7	5284.8	5261.7	5227.1	5192.5	5146.3	5181.0
150°	5607.9	5527.1	5504.0	5446.4	5400.2	5377.1	5296.3	5273.3	5307.9
152.5°	5781.0	5688.7	5619.4	5584.8	5573.3	5538.7	5492.5	5457.9	5457.9
155°	5988.7	5861.8	5861.8	5734.8	5700.2	5677.1	5631.0	5619.4	5631.0
157.5°	6207.9	6092.5	6034.8	5965.6	5907.9	5884.8	5827.1	5804.1	5827.1
160°	6369.5	6357.9	6231.0	6196.4	6138.7	6104.1	6092.5	6034.8	6034.8
162.5°	6623.3	6461.8	6438.7	6404.1	6357.9	6311.8	6288.7	6265.6	6288.7
165°	6761.8	6715.6	6657.9	6611.8	6577.2	6565.6	6496.4	6519.5	6507.9
167.5°	6923.3	6888.7	6831.0	6796.4	6807.9	6761.8	6761.8	6704.1	6715.6
170°	7038.7	7061.8	6992.6	6957.9	6934.9	6934.9	6888.7	6888.7	6911.8
172.5°	7119.5	7154.1	7096.4	7073.3	7050.3	7073.3	7027.2	7015.6	7038.7
175°	7142.6	7188.7	7142.6	7131.0	7108.0	7177.2	7096.4	7096.4	7050.3
177.5°	7119.5	7131.0	7177.2	7108.0	7108.0	7131.0	7142.6	7050.3	7108.0
180°	7084.9	7084.9	7084.9	7084.9	7084.9	7084.9	7084.9	7084.9	7084.9

(END OF REPORT)