

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: P508394

Luminaire Tested: **ASYX-X-L5-X-U-W-L40-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508394
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-L5-X-U-W-L40-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(5) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27837.6 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
N/A
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
CIE Type: Indirect

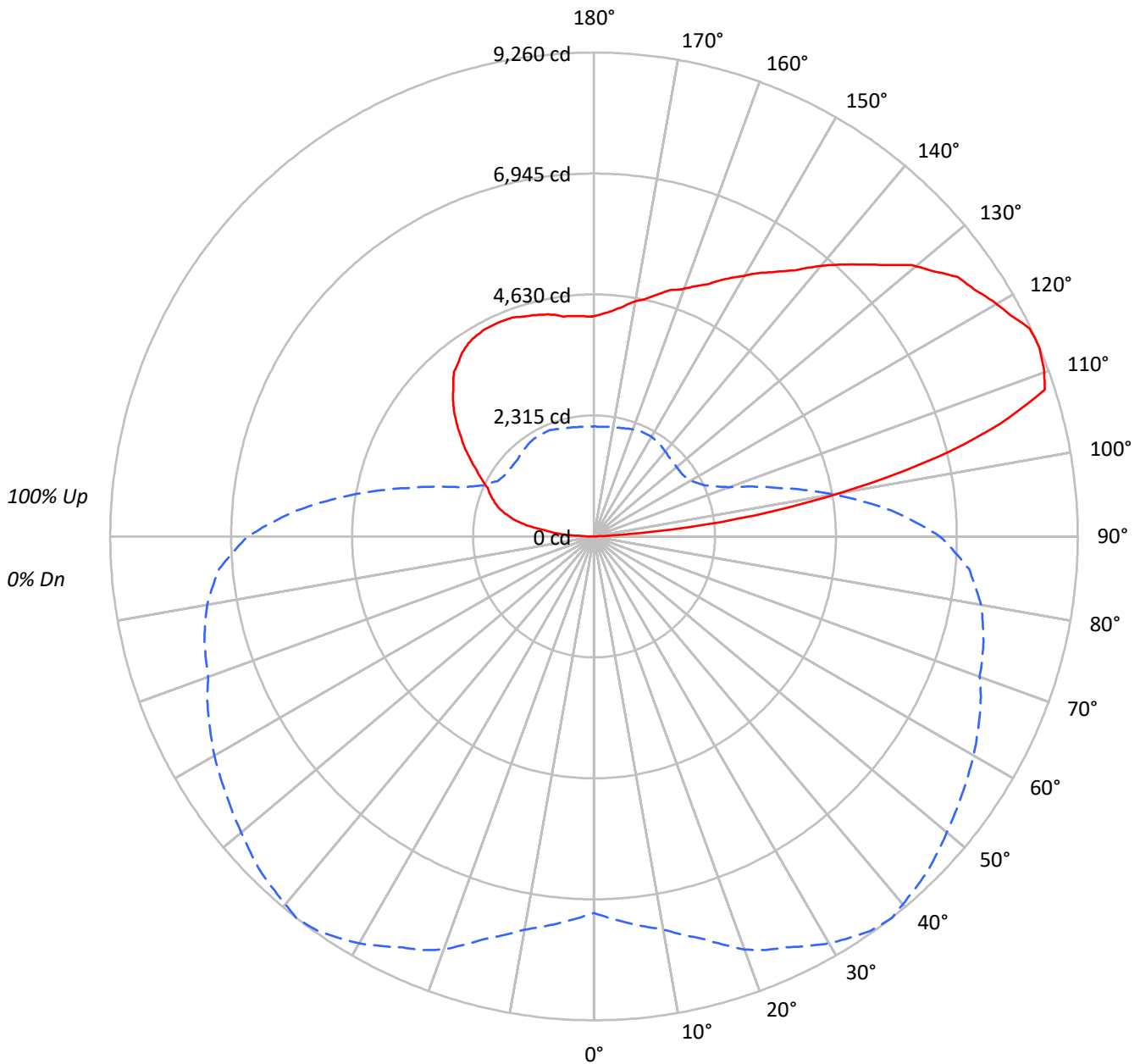
Input Watts (W): 270.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P508394

CATALOG NUMBER: ASYX-X-L5-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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CATALOG NUMBER: ASYX-X-L5-X-U-W-L40-1-UNV-X-X-X-STD

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	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°	43078	47952	60961
100°	117486	90968	55478
105°	117687	97162	50907
110°	131102	119504	42873
115°	138283	119845	35702
120°	129632	105548	33151
125°	113251	90280	32975
130°	97420	74938	34163
135°	82648	64315	34762
140°	69353	54743	35879
145°	58631	48167	35974
150°	49895	42697	36072
155°	43692	38221	35094
160°	39350	34827	34149
165°	36082	32782	32708
170°	33519	31217	31362
175°	31358	30434	30292



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CATALOG NUMBER: ASYX-X-L5-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°	1139.4	4.1
100°-110°	4124.1	14.8
110°-120°	5559.4	20.0
120°-130°	5291.3	19.0
130°-140°	4408.6	15.8
140°-150°	3339.8	12.0
150°-160°	2272.8	8.2
160°-170°	1291.4	4.6
170°-180°	410.8	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°	10822.9	38.9
90°-150°	23862.6	85.7
90°-180°	27838.0	100.0
0°-180°	27837.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	523	1708	582	582	740	931
105°	4245	8667	3504	1550	1836	4605
115°	8144	8865	7058	2241	2103	7853
125°	9052	8104	7216	3011	2636	8079
135°	8144	6979	6338	3820	3425	6310
145°	6693	5952	5498	4344	4106	4234
155°	5518	5232	4827	4501	4432	2578
165°	4857	4709	4413	4383	4403	1386
175°	4353	4294	4225	4215	4205	424
180°	4205	4205	4205	4205	4205	



TEST NUMBER: P508394

CATALOG NUMBER: ASYX-X-L5-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°	79.0	79.0	79.0	88.8	98.7	108.6	108.6	138.2	177.7	187.6	217.2
95°	523.2	602.2	898.3	1036.5	1046.4	1076.0	1076.0	1362.3	1697.9	1776.9	1855.8
97.5°	1401.8	1500.5	1816.4	2063.1	2418.5	2517.2	2635.7	2872.6	3237.8	3455.0	3563.6
100°	2843.0	2862.7	3030.5	3257.6	3642.6	3859.8	4126.3	4777.8	5103.6	5103.6	4985.1
102.5°	3603.1	3622.8	3770.9	3988.1	4442.2	4767.9	5073.9	5863.7	6525.1	6771.8	6870.6
105°	4244.7	4313.8	4471.8	4777.8	5330.6	5695.8	5982.1	6880.4	7650.4	8074.9	8400.6
107.5°	5064.1	5172.7	5439.2	5794.6	6456.0	6880.4	7245.7	7976.2	8647.4	9071.9	9062.0
110°	6248.6	6307.9	6584.3	7048.2	7620.8	7956.4	8183.5	8696.8	9150.9	9190.4	9210.1
112.5°	7206.2	7423.4	7640.5	7966.3	8410.5	8568.4	8677.0	8992.9	9220.0	9259.5	9190.4
115°	8144.0	8222.9	8331.5	8548.7	8756.0	8913.9	8933.7	9101.5	9150.9	9239.7	9081.8
117.5°	8726.4	8765.9	8775.7	8854.7	8963.3	9052.2	9032.4	9081.8	9141.0	9022.5	8943.6
120°	9032.4	9071.9	9002.8	9032.4	9062.0	9081.8	9042.3	9062.0	8953.4	8864.6	8775.7
122.5°	9150.9	9141.0	9071.9	9071.9	9032.4	9022.5	8943.6	8874.5	8795.5	8677.0	8568.4
125°	9052.2	9091.6	9002.8	8933.7	8844.8	8992.9	8795.5	8726.4	8588.2	8548.7	8341.4
127.5°	8923.8	9002.8	8854.7	8785.6	8696.8	8667.2	8548.7	8450.0	8351.3	8242.7	8104.5
130°	8726.4	8756.0	8617.8	8548.7	8459.9	8371.0	8351.3	8134.1	8065.0	7995.9	7808.3
132.5°	8529.0	8479.6	8341.4	8252.6	8144.0	8094.6	8045.3	7857.7	7759.0	7610.9	7512.2
135°	8144.0	8153.8	8025.5	7926.8	7778.7	7778.7	7689.9	7551.7	7423.4	7295.0	7166.7
137.5°	7778.7	7847.8	7660.3	7571.4	7492.5	7433.2	7314.8	7186.4	7048.2	6998.9	6900.2
140°	7403.6	7413.5	7265.4	7186.4	7127.2	7018.6	6949.5	6831.1	6781.7	6692.9	6554.7
142.5°	7077.9	7038.4	6919.9	6831.1	6771.8	6692.9	6653.4	6534.9	6456.0	6377.0	6327.6
145°	6692.9	6683.0	6544.8	6485.6	6436.2	6406.6	6337.5	6248.6	6209.2	6140.1	6140.1
147.5°	6367.1	6317.7	6238.8	6169.7	6110.4	6080.8	6080.8	5922.9	5952.5	5942.6	5853.8
150°	6021.6	6011.7	5903.1	5873.5	5824.2	5843.9	5824.2	5755.1	5755.1	5715.6	5656.4
152.5°	5745.2	5745.2	5656.4	5636.6	5616.9	5607.0	5567.5	5537.9	5537.9	5528.0	5458.9
155°	5518.2	5518.2	5449.1	5439.2	5409.6	5399.7	5380.0	5350.3	5330.6	5310.9	5251.6
157.5°	5330.6	5320.7	5241.8	5251.6	5222.0	5222.0	5212.1	5152.9	5172.7	5162.8	5123.3
160°	5152.9	5143.0	5064.1	5093.7	5073.9	5073.9	5073.9	5034.5	5014.7	5014.7	4925.9
162.5°	4995.0	5014.7	4935.7	4925.9	4935.7	4935.7	4896.3	4866.6	4896.3	4925.9	4837.0
165°	4856.8	4837.0	4807.4	4797.5	4777.8	4758.1	4777.8	4758.1	4738.3	4777.8	4748.2
167.5°	4718.6	4738.3	4679.1	4659.3	4659.3	4698.8	4669.2	4629.7	4649.5	4639.6	4580.4
170°	4600.1	4619.9	4540.9	4540.9	4540.9	4540.9	4511.3	4481.7	4531.0	4550.8	4481.7
172.5°	4481.7	4511.3	4442.2	4432.3	4422.4	4442.2	4422.4	4392.8	4452.0	4422.4	4392.8
175°	4353.3	4402.7	4333.6	4323.7	4343.5	4343.5	4323.7	4304.0	4343.5	4323.7	4304.0
177.5°	4294.1	4294.1	4225.0	4234.9	4234.9	4225.0	4254.6	4244.7	4254.6	4254.6	4294.1
180°	4205.3	4205.3	4205.3	4205.3	4205.3	4205.3	4205.3	4205.3	4205.3	4205.3	4205.3



TEST NUMBER: P508394

CATALOG NUMBER: ASYX-X-L5-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°	227.0	266.5	286.3	157.9	157.9	177.7	167.8	148.1	128.3	118.5	118.5
95°	1707.8	1618.9	1668.3	1500.5	1303.0	1145.1	1135.2	1145.1	789.7	592.3	582.4
97.5°	3672.2	3632.7	3326.7	2852.9	2714.7	2724.5	2556.7	2122.4	1776.9	1520.2	1312.9
100°	4777.8	4649.5	4511.3	4610.0	4333.6	4116.4	3810.4	3425.4	3020.7	2675.2	2201.3
102.5°	6811.3	6613.9	6110.4	5557.6	5004.8	4807.4	4580.4	4146.0	3721.5	3316.8	2833.1
105°	8667.2	8331.5	7482.6	6692.9	5942.6	5715.6	5419.4	4935.7	4442.2	4037.4	3504.4
107.5°	9111.4	8864.6	8390.8	7857.7	7206.2	6831.1	6554.7	6031.5	5567.5	5014.7	4402.7
110°	9150.9	8904.1	8607.9	8242.7	7926.8	7709.6	7531.9	7137.1	6801.5	6317.7	5695.8
112.5°	9042.3	8815.2	8598.1	8390.8	8144.0	8015.6	7857.7	7719.5	7522.1	7206.2	6623.8
115°	8864.6	8667.2	8469.7	8292.0	8173.6	8114.4	8035.4	7926.8	7818.2	7581.3	7058.1
117.5°	8696.8	8469.7	8292.0	8232.8	8124.2	8035.4	8025.5	8005.8	7936.7	7818.2	7314.8
120°	8529.0	8351.3	8173.6	8045.3	8005.8	7995.9	7995.9	7936.7	7956.4	7857.7	7354.3
122.5°	8262.4	8124.2	7976.2	7916.9	7749.1	7788.6	7808.3	7768.9	7847.8	7778.7	7304.9
125°	8104.5	7966.3	7778.7	7689.9	7660.3	7620.8	7660.3	7591.2	7630.7	7581.3	7216.1
127.5°	7838.0	7660.3	7561.6	7492.5	7472.7	7334.5	7403.6	7413.5	7423.4	7344.4	7018.6
130°	7551.7	7453.0	7225.9	7255.5	7255.5	7206.2	7216.1	7176.6	7156.8	7087.7	6712.6
132.5°	7344.4	7216.1	7068.0	7028.5	6989.0	6979.1	6979.1	6910.0	6910.0	6821.2	6574.4
135°	6979.1	6890.3	6831.1	6791.6	6781.7	6742.2	6742.2	6673.1	6663.3	6584.3	6337.5
137.5°	6722.5	6633.6	6584.3	6554.7	6525.1	6456.0	6495.4	6436.2	6377.0	6357.2	6120.3
140°	6465.8	6396.7	6357.2	6307.9	6298.0	6258.5	6258.5	6189.4	6169.7	6080.8	5843.9
142.5°	6248.6	6209.2	6130.2	6110.4	6041.3	6051.2	6001.9	6011.7	5932.8	5834.0	5646.5
145°	5952.5	5962.4	5922.9	5883.4	5873.5	5814.3	5824.2	5764.9	5715.6	5646.5	5498.4
147.5°	5794.6	5794.6	5735.3	5686.0	5646.5	5636.6	5587.3	5597.1	5518.2	5419.4	5320.7
150°	5587.3	5567.5	5508.3	5478.7	5449.1	5449.1	5399.7	5370.1	5310.9	5281.2	5152.9
152.5°	5439.2	5389.8	5360.2	5301.0	5301.0	5251.6	5212.1	5192.4	5143.0	5083.8	4985.1
155°	5231.9	5212.1	5172.7	5162.8	5123.3	5083.8	5014.7	5004.8	4975.2	4916.0	4827.2
157.5°	5064.1	5093.7	5034.5	5004.8	4945.6	4935.7	4866.6	4876.5	4817.3	4777.8	4698.8
160°	4985.1	4935.7	4876.5	4866.6	4846.9	4767.9	4758.1	4728.4	4689.0	4659.3	4560.6
162.5°	4807.4	4797.5	4767.9	4748.2	4679.1	4679.1	4560.6	4610.0	4580.4	4550.8	4501.4
165°	4708.7	4718.6	4649.5	4629.7	4610.0	4570.5	4540.9	4511.3	4481.7	4461.9	4412.6
167.5°	4580.4	4560.6	4540.9	4501.4	4511.3	4481.7	4452.0	4432.3	4412.6	4392.8	4353.3
170°	4471.8	4461.9	4442.2	4412.6	4422.4	4392.8	4392.8	4353.3	4343.5	4333.6	4284.2
172.5°	4382.9	4382.9	4363.2	4363.2	4353.3	4323.7	4304.0	4284.2	4284.2	4264.5	4254.6
175°	4294.1	4304.0	4294.1	4284.2	4284.2	4264.5	4264.5	4274.4	4254.6	4254.6	4225.0
177.5°	4225.0	4225.0	4225.0	4225.0	4225.0	4225.0	4225.0	4215.1	4225.0	4215.1	4185.5
180°	4205.3	4205.3	4205.3	4205.3	4205.3	4205.3	4205.3	4205.3	4205.3	4205.3	4205.3



TEST NUMBER: P508394

CATALOG NUMBER: ASYX-X-L5-X-U-W-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°	128.3	138.2	148.1	157.9	187.6	177.7	207.3	217.2	236.9	276.4	286.3
95°	523.2	523.2	513.3	513.3	493.6	493.6	483.7	473.8	523.2	582.4	661.4
97.5°	1076.0	918.0	839.1	809.5	799.6	789.7	770.0	740.4	760.1	809.5	908.2
100°	1816.4	1500.5	1243.8	1095.7	1066.1	1016.8	997.0	987.1	987.1	1085.9	1243.8
102.5°	2349.4	1885.5	1549.8	1332.7	1273.4	1224.1	1194.4	1194.4	1214.2	1332.7	1510.3
105°	2971.3	2379.0	1865.7	1579.4	1530.1	1461.0	1411.6	1421.5	1441.2	1549.8	1707.8
107.5°	3721.5	3010.8	2398.8	1954.6	1846.0	1747.3	1668.3	1668.3	1678.2	1747.3	1865.7
110°	4846.9	3928.9	3010.8	2349.4	2171.7	2063.1	1875.6	1875.6	1865.7	1915.1	1994.0
112.5°	5705.7	4639.6	3593.2	2744.3	2497.5	2319.8	2122.4	2063.1	2063.1	2073.0	2122.4
115°	6219.0	5113.4	3998.0	3109.5	2783.8	2566.6	2319.8	2250.7	2221.1	2240.8	2221.1
117.5°	6515.2	5399.7	4343.5	3376.0	3070.0	2823.2	2517.2	2428.4	2379.0	2418.5	2408.6
120°	6663.3	5656.4	4619.9	3652.4	3336.6	3050.3	2724.5	2635.7	2596.2	2596.2	2606.1
122.5°	6683.0	5794.6	4777.8	3899.2	3583.3	3306.9	2971.3	2843.0	2803.5	2813.4	2813.4
125°	6613.9	5774.8	4925.9	4096.7	3790.6	3514.2	3168.7	3060.2	2971.3	3010.8	3020.7
127.5°	6505.3	5725.5	5014.7	4254.6	3978.2	3731.4	3415.5	3287.2	3208.2	3228.0	3218.1
130°	6347.4	5666.2	5093.7	4392.8	4155.9	3909.1	3632.7	3514.2	3405.7	3415.5	3425.4
132.5°	6189.4	5646.5	5133.2	4501.4	4304.0	4096.7	3820.3	3701.8	3603.1	3613.0	3613.0
135°	6021.6	5597.1	5083.8	4570.5	4471.8	4254.6	4027.6	3899.2	3820.3	3820.3	3800.5
137.5°	5843.9	5478.7	5123.3	4708.7	4570.5	4392.8	4165.8	4067.1	3988.1	3978.2	3968.3
140°	5686.0	5350.3	5073.9	4738.3	4639.6	4501.4	4313.8	4234.9	4126.3	4106.5	4165.8
142.5°	5528.0	5291.1	5123.3	4807.4	4708.7	4590.2	4452.0	4343.5	4264.5	4244.7	4234.9
145°	5370.1	5231.9	5044.3	4787.7	4748.2	4629.7	4481.7	4452.0	4363.2	4343.5	4343.5
147.5°	5212.1	5093.7	4955.5	4777.8	4777.8	4679.1	4610.0	4521.1	4452.0	4412.6	4412.6
150°	5073.9	4975.2	4906.1	4767.9	4758.1	4679.1	4619.9	4580.4	4501.4	4481.7	4471.8
152.5°	4945.6	4856.8	4797.5	4708.7	4698.8	4590.2	4610.0	4570.5	4491.5	4471.8	4471.8
155°	4787.7	4777.8	4708.7	4619.9	4659.3	4600.1	4550.8	4600.1	4481.7	4501.4	4501.4
157.5°	4679.1	4669.2	4659.3	4570.5	4580.4	4550.8	4521.1	4560.6	4461.9	4471.8	4471.8
160°	4560.6	4540.9	4540.9	4461.9	4521.1	4461.9	4471.8	4491.5	4432.3	4442.2	4471.8
162.5°	4501.4	4461.9	4461.9	4432.3	4452.0	4432.3	4382.9	4452.0	4442.2	4422.4	4432.3
165°	4402.7	4392.8	4412.6	4353.3	4402.7	4343.5	4363.2	4392.8	4373.1	4382.9	4392.8
167.5°	4343.5	4333.6	4343.5	4313.8	4343.5	4323.7	4313.8	4353.3	4333.6	4343.5	4353.3
170°	4294.1	4294.1	4304.0	4274.4	4304.0	4274.4	4304.0	4304.0	4294.1	4294.1	4313.8
172.5°	4274.4	4244.7	4274.4	4225.0	4274.4	4215.1	4234.9	4264.5	4254.6	4244.7	4244.7
175°	4234.9	4225.0	4254.6	4205.3	4234.9	4205.3	4205.3	4234.9	4225.0	4215.1	4254.6
177.5°	4234.9	4205.3	4234.9	4185.5	4215.1	4195.4	4195.4	4225.0	4205.3	4205.3	4234.9
180°	4205.3	4205.3	4205.3	4205.3	4205.3	4205.3	4205.3	4205.3	4205.3	4205.3	4205.3



TEST NUMBER: P508394

CATALOG NUMBER: ASYX-X-L5-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°	286.3	335.6	345.5	375.1	365.2	306.0	266.5	217.2	187.6
95°	750.2	829.2	908.2	898.3	927.9	868.7	809.5	779.8	740.4
97.5°	1006.9	1135.2	1214.2	1214.2	1224.1	1184.6	1164.8	1184.6	1135.2
100°	1421.5	1510.3	1540.0	1530.1	1500.5	1431.4	1391.9	1372.1	1342.5
102.5°	1668.3	1767.0	1796.6	1776.9	1757.1	1727.5	1688.0	1668.3	1658.4
105°	1836.1	1924.9	1964.4	1954.6	1944.7	1895.3	1816.4	1846.0	1836.1
107.5°	1994.0	2053.3	2092.8	2063.1	2053.3	2023.7	1974.3	2003.9	1964.4
110°	2092.8	2142.1	2152.0	2152.0	2132.2	2102.6	2063.1	2073.0	2043.4
112.5°	2171.7	2201.3	2201.3	2201.3	2181.6	2142.1	2122.4	2102.6	2102.6
115°	2260.6	2240.8	2250.7	2250.7	2231.0	2171.7	2142.1	2122.4	2102.6
117.5°	2418.5	2388.9	2359.3	2359.3	2309.9	2270.4	2240.8	2211.2	2181.6
120°	2566.6	2546.8	2527.1	2497.5	2467.9	2418.5	2369.2	2329.7	2309.9
122.5°	2764.0	2714.7	2685.0	2704.8	2645.6	2596.2	2537.0	2497.5	2448.1
125°	2981.2	2941.7	2892.3	2872.6	2823.2	2783.8	2734.4	2694.9	2635.7
127.5°	3168.7	3109.5	3089.8	3079.9	3020.7	2971.3	2892.3	2862.7	2862.7
130°	3385.9	3316.8	3326.7	3277.3	3228.0	3149.0	3070.0	3070.0	3060.2
132.5°	3593.2	3514.2	3504.4	3484.6	3425.4	3366.2	3316.8	3306.9	3267.5
135°	3761.0	3701.8	3691.9	3672.2	3622.8	3563.6	3484.6	3504.4	3425.4
137.5°	3909.1	3879.5	3869.6	3830.1	3780.8	3770.9	3682.1	3672.2	3622.8
140°	4076.9	4017.7	4057.2	4007.8	3948.6	3928.9	3810.4	3830.1	3830.1
142.5°	4195.4	4165.8	4155.9	4136.2	4096.7	4057.2	4027.6	3988.1	4007.8
145°	4313.8	4294.1	4274.4	4274.4	4215.1	4195.4	4136.2	4136.2	4106.5
147.5°	4412.6	4373.1	4373.1	4353.3	4323.7	4304.0	4244.7	4274.4	4225.0
150°	4412.6	4432.3	4412.6	4412.6	4422.4	4412.6	4363.2	4343.5	4353.3
152.5°	4491.5	4461.9	4442.2	4481.7	4432.3	4461.9	4392.8	4412.6	4392.8
155°	4452.0	4471.8	4481.7	4461.9	4461.9	4461.9	4432.3	4481.7	4432.3
157.5°	4491.5	4471.8	4481.7	4471.8	4452.0	4481.7	4452.0	4491.5	4461.9
160°	4471.8	4452.0	4471.8	4461.9	4442.2	4481.7	4481.7	4511.3	4471.8
162.5°	4402.7	4422.4	4471.8	4442.2	4442.2	4511.3	4402.7	4501.4	4442.2
165°	4382.9	4392.8	4412.6	4432.3	4392.8	4422.4	4422.4	4432.3	4402.7
167.5°	4363.2	4323.7	4363.2	4363.2	4373.1	4373.1	4373.1	4392.8	4353.3
170°	4323.7	4244.7	4323.7	4323.7	4304.0	4304.0	4294.1	4353.3	4304.0
172.5°	4254.6	4234.9	4264.5	4264.5	4284.2	4274.4	4274.4	4284.2	4254.6
175°	4215.1	4225.0	4264.5	4234.9	4225.0	4234.9	4205.3	4234.9	4205.3
177.5°	4195.4	4195.4	4205.3	4215.1	4234.9	4215.1	4185.5	4215.1	4185.5
180°	4205.3	4205.3	4205.3	4205.3	4205.3	4205.3	4205.3	4205.3	4205.3

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