

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: P508382

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

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508382
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-L5-X-U-F-L40-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(5) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

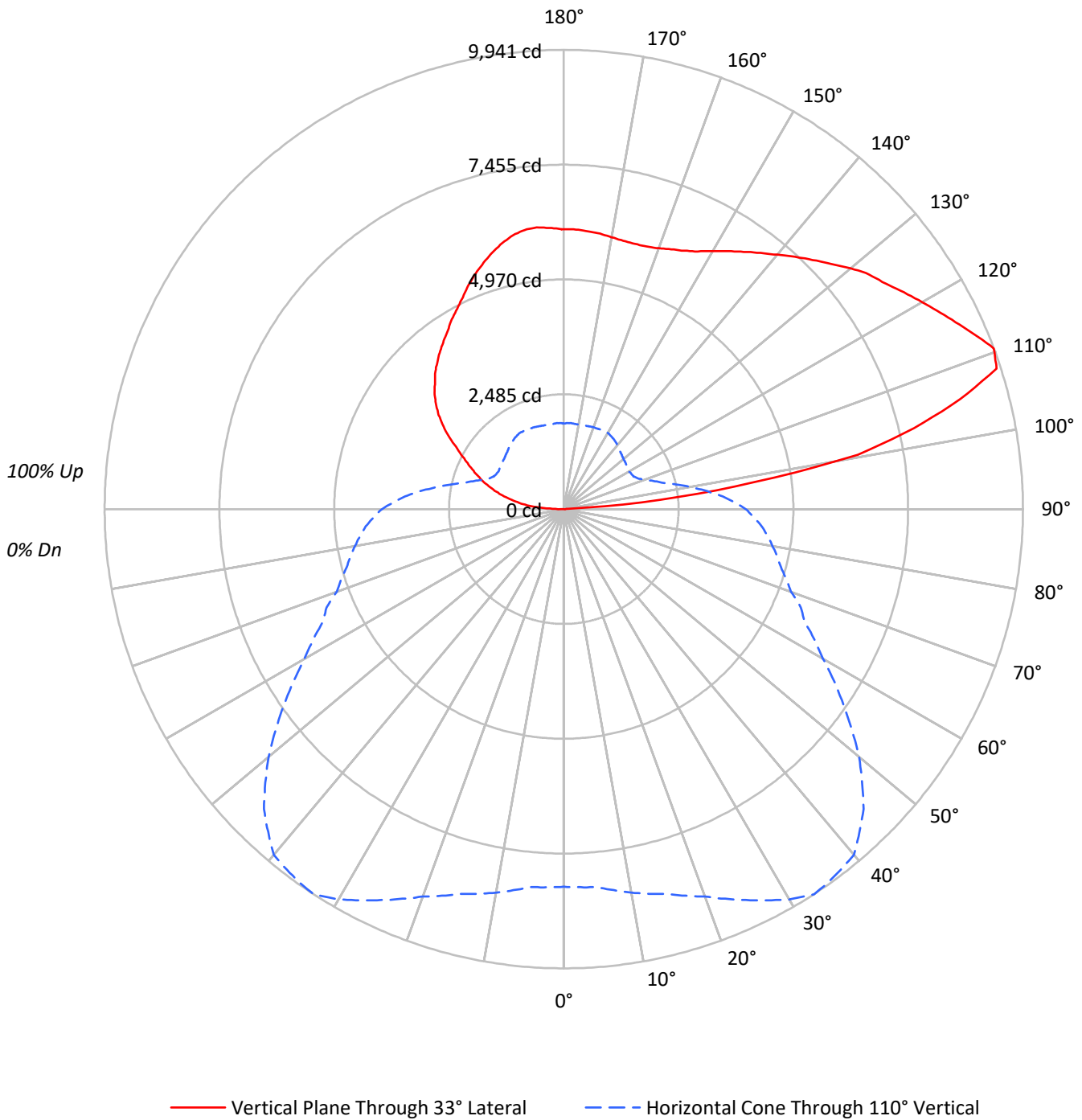
Lumens per Lamp: N/A
Luminaire Lumens: 28765.1 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
N/A
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
CIE Type: Indirect

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: P508382
CATALOG NUMBER: ASYX-X-L5-X-U-F-L40-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot





TEST NUMBER: P508382

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

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20								20				20				20			
RC	80								50				30				10			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	69894	26825	58515
100°	177452	57111	48135
105°	172426	63223	41053
110°	171491	82638	38937
115°	149513	93698	35702
120°	124249	92089	34427
125°	105841	85833	35074
130°	90477	78685	37028
135°	77839	72329	37467
140°	67874	66764	37359
145°	59668	61571	37617
150°	52350	57503	37626
155°	48069	53930	38142
160°	44476	50281	39426
165°	42975	47595	41361
170°	42798	45460	43086
175°	43802	44016	43447



TEST NUMBER: P508382

CATALOG NUMBER: ASYX-X-L5-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°	1044.1	3.6
100°-110°	3851.1	13.4
110°-120°	5225.4	18.2
120°-130°	5202.2	18.1
130°-140°	4631.2	16.1
140°-150°	3763.3	13.1
150°-160°	2763.3	9.6
160°-170°	1705.2	5.9
170°-180°	579.4	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°	10120.6	35.2
90°-150°	23717.3	82.5
90°-180°	28765.0	100.0
0°-180°	28765.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	849	1254	326	494	711	1406
105°	6219	8351	2280	1342	1481	6619
115°	8805	9062	5518	2142	2103	8610
125°	8460	8460	6861	3040	2804	7561
135°	7670	7700	7127	3840	3692	5975
145°	6811	6831	7028	4551	4294	4284
155°	6071	6278	6811	5340	4817	2802
165°	5785	5992	6407	5933	5568	1652
175°	6081	6022	6110	6110	6032	571
180°	6061	6061	6061	6061	6061	



TEST NUMBER: P508382

CATALOG NUMBER: ASYX-X-L5-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°	49.4	49.4	49.4	59.2	69.1	69.1	88.8	98.7	88.8	128.3	148.1
95°	848.9	977.3	1401.8	1668.3	1648.5	1559.7	1658.4	1944.7	2092.8	1905.2	1618.9
97.5°	2132.2	2211.2	3089.8	3504.4	3869.6	4047.3	4205.3	4076.9	4146.0	4106.5	3741.3
100°	4294.1	4550.8	4856.8	5281.2	5804.4	6179.6	6465.8	6692.9	6475.7	6130.2	5123.3
102.5°	5498.4	5587.3	5794.6	6011.7	6574.4	6850.8	7137.1	7630.7	7778.7	7709.6	7166.7
105°	6219.0	6268.4	6465.8	6791.6	7225.9	7531.9	7887.3	8529.0	8904.1	8943.6	8983.1
107.5°	7127.2	7235.8	7472.7	7680.0	8193.3	8548.7	8864.6	9526.0	9851.7	9871.5	9733.3
110°	8173.6	8213.1	8430.3	8627.7	8923.8	9131.1	9338.4	9753.0	9940.6	9911.0	9772.8
112.5°	8736.3	8785.6	8864.6	8933.7	9071.9	9160.7	9289.1	9555.6	9664.2	9693.8	9555.6
115°	8805.4	8805.4	8864.6	8874.5	9032.4	9032.4	9091.6	9348.3	9397.7	9437.1	9358.2
117.5°	8746.1	8765.9	8805.4	8785.6	8854.7	8953.4	8933.7	9091.6	9150.9	9121.3	9150.9
120°	8657.3	8637.6	8716.5	8677.0	8726.4	8785.6	8746.1	8864.6	8914.0	8894.2	8992.9
122.5°	8568.5	8568.5	8598.1	8588.2	8568.5	8548.7	8558.6	8637.6	8686.9	8677.0	8736.3
125°	8459.9	8450.0	8440.1	8400.6	8450.0	8420.4	8371.0	8430.3	8469.7	8450.0	8509.2
127.5°	8282.2	8292.1	8272.3	8252.6	8193.3	8183.5	8232.8	8203.2	8301.9	8242.7	8301.9
130°	8104.5	8104.5	8084.7	8045.3	8025.5	7986.0	7976.2	7995.9	8055.1	8074.9	7986.0
132.5°	7966.3	7897.2	7847.8	7818.2	7818.2	7778.7	7759.0	7778.7	7808.3	7857.7	7867.6
135°	7670.1	7630.7	7630.7	7591.2	7650.4	7561.6	7541.8	7571.4	7581.3	7581.3	7640.5
137.5°	7502.3	7403.6	7364.1	7354.3	7344.4	7314.8	7314.8	7354.3	7364.1	7354.3	7403.6
140°	7245.7	7137.1	7176.6	7127.2	7137.1	7087.7	7107.5	7107.5	7147.0	7147.0	7196.3
142.5°	7097.6	6939.7	6919.9	6890.3	6900.2	6880.4	6979.1	6910.0	6949.5	7018.6	6989.0
145°	6811.3	6683.0	6712.6	6683.0	6692.9	6673.1	6722.5	6712.6	6762.0	6752.1	6801.5
147.5°	6505.3	6495.4	6505.3	6485.6	6505.3	6485.6	6544.8	6534.9	6584.3	6613.9	6623.8
150°	6317.8	6278.3	6288.1	6307.9	6288.1	6327.6	6327.6	6367.1	6416.5	6426.3	6465.8
152.5°	6120.3	6110.5	6159.8	6130.2	6149.9	6149.9	6179.6	6189.4	6258.5	6268.4	6367.1
155°	6071.0	5982.1	5982.1	5972.3	6021.6	6021.6	6061.1	6120.3	6149.9	6199.3	6209.2
157.5°	5893.3	5883.4	5883.4	5922.9	5873.5	5932.8	6021.6	5992.0	6071.0	6080.8	6120.3
160°	5824.2	5794.6	5814.3	5834.0	5834.0	5883.4	5952.5	5942.6	5992.0	6051.2	6061.1
162.5°	5863.7	5764.9	5774.8	5824.2	5804.4	5873.5	5883.4	5903.2	5952.5	5972.3	6031.5
165°	5784.7	5755.1	5735.3	5755.1	5814.3	5843.9	5873.5	5893.3	5942.6	5952.5	5982.1
167.5°	5814.3	5804.4	5804.4	5824.2	5863.7	5863.7	5913.0	5903.2	5952.5	5952.5	5972.3
170°	5873.5	5843.9	5863.7	5903.2	5834.0	5942.6	5932.8	5903.2	5982.1	5982.1	6011.7
172.5°	5952.5	5922.9	5932.8	5932.8	5932.8	5992.0	6001.9	6011.7	6021.6	6011.7	6011.7
175°	6080.8	6001.9	5992.0	5992.0	6011.7	6011.7	6031.5	5982.1	6041.4	6041.4	6031.5
177.5°	6051.2	6021.6	6071.0	6021.6	6001.9	6041.4	6071.0	6031.5	6061.1	6031.5	6061.1
180°	6061.1	6061.1	6061.1	6061.1	6061.1	6061.1	6061.1	6061.1	6061.1	6061.1	6061.1



TEST NUMBER: P508382

CATALOG NUMBER: ASYX-X-L5-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°	128.3	128.3	128.3	118.5	108.6	108.6	108.6	108.6	98.7	88.8	88.8
95°	1253.7	997.0	908.2	750.2	631.8	582.4	503.4	503.4	375.1	306.0	325.8
97.5°	3149.0	2448.1	1944.7	1470.9	1401.8	1312.9	1303.0	1105.6	977.3	888.4	770.0
100°	4086.8	3356.3	2912.1	2665.3	2339.5	2191.5	2082.9	1875.6	1747.3	1569.6	1382.0
102.5°	6071.0	5044.3	4175.6	3445.1	2951.6	2744.3	2606.1	2388.9	2231.0	2053.3	1816.4
105°	8351.3	6910.0	5458.9	4363.2	3701.8	3435.3	3198.4	2981.2	2773.9	2497.5	2280.3
107.5°	8963.3	7916.9	6821.2	5597.1	4679.1	4412.6	4136.2	3770.9	3494.5	3257.6	2882.5
110°	9180.5	8341.4	7393.7	6485.6	5745.2	5557.6	5231.9	4866.6	4590.2	4304.0	3938.7
112.5°	9091.6	8568.5	7808.3	6998.9	6396.7	6209.2	5972.3	5745.2	5597.1	5380.0	4896.3
115°	9062.0	8637.6	8104.5	7383.9	6840.9	6633.6	6446.1	6238.8	6199.3	6051.2	5518.2
117.5°	8933.7	8647.4	8242.7	7660.3	7176.6	7038.4	6850.8	6683.0	6663.3	6515.2	6051.2
120°	8844.9	8607.9	8262.4	7877.4	7462.8	7314.8	7156.8	7028.5	6969.3	6860.7	6416.5
122.5°	8637.6	8548.7	8282.2	7956.4	7581.3	7512.2	7364.1	7147.0	7245.7	7127.2	6702.7
125°	8459.9	8410.5	8341.4	7946.5	7680.0	7591.2	7482.6	7354.3	7383.9	7304.9	6860.7
127.5°	8272.3	8262.4	8213.1	7976.2	7729.4	7689.9	7561.6	7462.8	7443.1	7364.1	6969.3
130°	8124.2	8114.4	8045.3	7887.3	7729.4	7719.5	7591.2	7512.2	7502.3	7433.2	7048.2
132.5°	7907.1	7907.1	7946.5	7788.6	7689.9	7660.3	7601.0	7502.3	7531.9	7383.9	7087.7
135°	7699.8	7709.6	7739.2	7660.3	7719.5	7610.9	7551.7	7423.4	7482.6	7423.4	7127.2
137.5°	7462.8	7492.5	7551.7	7522.1	7551.7	7561.6	7482.6	7453.0	7453.0	7393.7	7117.3
140°	7176.6	7295.0	7403.6	7393.7	7453.0	7443.1	7413.5	7275.3	7403.6	7364.1	7127.2
142.5°	7048.2	7117.3	7245.7	7216.1	7344.4	7344.4	7324.6	7314.8	7344.4	7275.3	7087.7
145°	6831.1	6939.7	7038.4	7097.6	7176.6	7255.5	7225.9	7245.7	7255.5	7255.5	7028.5
147.5°	6692.9	6811.3	6939.7	6959.4	7097.6	7117.3	7127.2	7156.8	7216.1	7137.1	7048.2
150°	6544.8	6623.8	6771.8	6831.1	6979.1	7008.8	6998.9	7038.4	7137.1	7077.9	6939.7
152.5°	6317.8	6485.6	6613.9	6702.7	6811.3	6880.4	6890.3	6890.3	6979.1	6979.1	6900.2
155°	6278.3	6367.1	6485.6	6574.4	6692.9	6762.0	6771.8	6771.8	6860.7	6831.1	6811.3
157.5°	6189.4	6307.9	6406.6	6436.2	6584.3	6643.5	6643.5	6663.3	6742.2	6762.0	6692.9
160°	6130.2	6189.4	6307.9	6396.7	6475.7	6544.8	6554.7	6574.4	6623.8	6613.9	6584.3
162.5°	6041.4	6130.2	6238.8	6288.1	6377.0	6446.1	6436.2	6436.2	6525.1	6544.8	6505.3
165°	5992.0	6090.7	6219.0	6248.7	6307.9	6347.4	6337.5	6367.1	6446.1	6426.3	6406.6
167.5°	6011.7	6061.1	6169.7	6159.8	6228.9	6258.5	6258.5	6238.8	6288.1	6219.0	6278.3
170°	6041.4	6041.4	6100.6	6120.3	6179.6	6209.2	6179.6	6179.6	6209.2	6228.9	6238.8
172.5°	6051.2	6041.4	6090.7	6080.8	6100.6	6149.9	6120.3	6080.8	6140.1	6179.6	6130.2
175°	6021.6	6031.5	6110.5	6090.7	6061.1	6110.5	6061.1	6051.2	6140.1	6130.2	6110.5
177.5°	5992.0	5992.0	6041.4	6001.9	6071.0	6071.0	6021.6	6021.6	6120.3	6051.2	6031.5
180°	6061.1	6061.1	6061.1	6061.1	6061.1	6061.1	6061.1	6061.1	6061.1	6061.1	6061.1



TEST NUMBER: P508382

CATALOG NUMBER: ASYX-X-L5-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°	98.7	108.6	118.5	138.2	148.1	157.9	177.7	197.4	227.0	227.0	266.5
95°	315.9	325.8	325.8	345.5	355.4	355.4	365.2	404.7	444.2	493.6	582.4
97.5°	671.3	592.3	572.5	572.5	582.4	582.4	592.3	612.0	641.6	700.9	789.7
100°	1184.6	1006.9	878.6	809.5	789.7	779.8	789.7	789.7	839.1	918.0	1016.8
102.5°	1549.8	1312.9	1095.7	997.0	957.5	967.4	957.5	977.3	1046.4	1115.5	1224.1
105°	1954.6	1648.5	1372.1	1224.1	1164.8	1155.0	1155.0	1174.7	1253.7	1342.5	1421.5
107.5°	2507.4	2122.4	1717.6	1500.5	1411.6	1391.9	1391.9	1421.5	1470.9	1530.1	1618.9
110°	3395.8	2764.0	2201.3	1855.8	1737.4	1668.3	1628.8	1658.4	1688.0	1737.4	1806.5
112.5°	4225.0	3445.1	2704.8	2181.6	2023.7	1915.1	1855.8	1855.8	1895.3	1934.8	1984.2
115°	4797.5	3928.9	3129.3	2517.2	2290.2	2191.5	2063.1	2073.0	2102.6	2142.1	2171.7
117.5°	5310.9	4382.9	3484.6	2833.1	2576.5	2418.5	2290.2	2260.6	2319.8	2369.2	2388.9
120°	5676.1	4777.8	3840.0	3158.9	2862.7	2685.0	2507.4	2477.7	2537.0	2546.8	2645.6
122.5°	5982.1	5064.1	4146.0	3445.1	3129.3	2981.2	2764.0	2724.5	2764.0	2833.1	2912.1
125°	6179.6	5320.7	4422.4	3711.7	3415.5	3218.1	2991.1	2961.4	2991.1	3040.4	3129.3
127.5°	6337.5	5528.0	4689.0	3988.1	3642.6	3484.6	3257.6	3198.4	3237.8	3257.6	3356.3
130°	6456.0	5764.9	4935.7	4254.6	3948.6	3790.7	3484.6	3425.4	3445.1	3494.5	3543.9
132.5°	6574.4	5913.0	5182.5	4531.0	4234.9	4057.2	3761.0	3632.7	3642.6	3682.1	3731.4
135°	6653.4	6071.0	5439.2	4807.4	4481.7	4343.5	4027.6	3899.2	3849.9	3840.0	3899.2
137.5°	6732.4	6219.0	5636.6	5064.1	4787.7	4629.7	4254.6	4106.5	4057.2	4047.3	4067.1
140°	6801.5	6347.4	5814.3	5340.5	5064.1	4876.5	4531.0	4343.5	4264.5	4225.0	4244.7
142.5°	6831.1	6456.0	6001.9	5636.6	5301.0	5083.8	4797.5	4610.0	4442.2	4392.8	4353.3
145°	6850.8	6623.8	6179.6	5824.2	5567.5	5439.2	5093.7	4846.9	4649.5	4550.8	4531.0
147.5°	6850.8	6613.9	6298.0	5982.1	5764.9	5626.7	5251.6	5093.7	4935.7	4767.9	4689.0
150°	6831.1	6722.5	6386.9	6140.1	5913.0	5804.4	5537.9	5241.8	5073.9	4955.5	4866.6
152.5°	6781.7	6633.6	6436.2	6219.0	6051.2	5982.1	5676.1	5488.5	5310.9	5133.2	5064.1
155°	6732.4	6613.9	6465.8	6288.1	6149.9	6061.1	5843.9	5656.4	5528.0	5340.5	5271.4
157.5°	6673.1	6594.2	6465.8	6367.1	6209.2	6149.9	5932.8	5804.4	5695.8	5508.3	5419.4
160°	6584.3	6534.9	6456.0	6317.8	6248.7	6199.3	6021.6	5922.9	5814.3	5676.1	5607.0
162.5°	6495.4	6505.3	6406.6	6377.0	6268.4	6228.9	6110.5	6001.9	5893.3	5814.3	5755.1
165°	6426.3	6465.8	6367.1	6268.4	6268.4	6248.7	6120.3	6071.0	6021.6	5932.8	5863.7
167.5°	6298.0	6347.4	6347.4	6228.9	6219.0	6248.7	6169.7	6120.3	6080.8	6011.7	5972.3
170°	6278.3	6278.3	6209.2	6219.0	6248.7	6179.6	6130.2	6120.3	6120.3	6080.8	6051.2
172.5°	6159.8	6219.0	6189.4	6169.7	6140.1	6140.1	6110.5	6120.3	6100.6	6110.5	6100.6
175°	6120.3	6130.2	6140.1	6130.2	6100.6	6100.6	6090.7	6100.6	6110.5	6110.5	6090.7
177.5°	6061.1	6090.7	6140.1	6090.7	6110.5	6071.0	6061.1	6080.8	6080.8	6090.7	6071.0
180°	6061.1	6061.1	6061.1	6061.1	6061.1	6061.1	6061.1	6061.1	6061.1	6061.1	6061.1



TEST NUMBER: P508382

CATALOG NUMBER: ASYX-X-L5-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°	296.1	315.9	325.8	335.6	345.5	315.9	315.9	286.3	266.5
95°	631.8	681.1	681.1	681.1	710.7	730.5	720.6	710.7	710.7
97.5°	858.8	937.8	997.0	1006.9	1006.9	1006.9	1016.8	1016.8	997.0
100°	1085.9	1125.3	1164.8	1174.7	1164.8	1164.8	1155.0	1174.7	1164.8
102.5°	1303.0	1342.5	1352.4	1362.3	1352.4	1342.5	1322.8	1342.5	1303.0
105°	1490.6	1530.1	1520.2	1510.3	1500.5	1480.7	1461.0	1490.6	1480.7
107.5°	1697.9	1707.8	1717.6	1727.5	1688.0	1678.2	1678.2	1697.9	1688.0
110°	1865.7	1905.2	1895.3	1885.5	1885.5	1865.7	1855.8	1865.7	1855.8
112.5°	2043.4	2063.1	2053.3	2053.3	2043.4	2013.8	1984.2	1994.0	1984.2
115°	2231.0	2240.8	2231.0	2211.2	2191.5	2171.7	2132.2	2112.5	2102.6
117.5°	2428.4	2418.5	2398.8	2388.9	2369.2	2359.3	2300.1	2270.4	2260.6
120°	2655.4	2625.8	2586.3	2576.5	2546.8	2537.0	2458.0	2408.6	2398.8
122.5°	2931.8	2882.5	2803.5	2764.0	2754.1	2724.5	2625.8	2606.1	2576.5
125°	3168.7	3149.0	3099.6	3070.0	3030.5	2941.7	2833.1	2783.8	2803.5
127.5°	3395.8	3385.9	3366.2	3326.7	3277.3	3237.8	3149.0	3070.0	3050.3
130°	3583.4	3593.2	3563.6	3534.0	3504.4	3464.9	3366.2	3316.8	3316.8
132.5°	3761.0	3770.9	3790.7	3711.7	3691.9	3652.5	3563.6	3504.4	3524.1
135°	3899.2	3919.0	3889.4	3859.8	3840.0	3800.5	3711.7	3682.1	3691.9
137.5°	4086.8	4067.1	4037.4	4017.7	3968.3	3958.5	3889.4	3840.0	3820.3
140°	4205.3	4215.1	4215.1	4165.8	4116.4	4096.7	4027.6	3978.2	3988.1
142.5°	4363.2	4323.7	4343.5	4294.1	4264.5	4234.9	4146.0	4136.2	4136.2
145°	4481.7	4461.9	4452.0	4412.6	4402.7	4343.5	4313.8	4264.5	4294.1
147.5°	4610.0	4610.0	4610.0	4521.1	4501.4	4471.8	4442.2	4402.7	4432.3
150°	4797.5	4728.4	4708.7	4659.3	4619.9	4600.1	4531.0	4511.3	4540.9
152.5°	4945.6	4866.6	4807.4	4777.8	4767.9	4738.3	4698.8	4669.2	4669.2
155°	5123.3	5014.7	5014.7	4906.1	4876.5	4856.8	4817.3	4807.4	4817.3
157.5°	5310.9	5212.1	5162.8	5103.6	5054.2	5034.5	4985.1	4965.4	4985.1
160°	5449.1	5439.2	5330.6	5301.0	5251.6	5222.0	5212.1	5162.8	5162.8
162.5°	5666.2	5528.0	5508.3	5478.7	5439.2	5399.7	5380.0	5360.2	5380.0
165°	5784.7	5745.2	5695.8	5656.4	5626.7	5616.9	5557.6	5577.4	5567.5
167.5°	5922.9	5893.3	5843.9	5814.3	5824.2	5784.7	5784.7	5735.3	5745.2
170°	6021.6	6041.4	5982.1	5952.5	5932.8	5932.8	5893.3	5893.3	5913.0
172.5°	6090.7	6120.3	6071.0	6051.2	6031.5	6051.2	6011.7	6001.9	6021.6
175°	6110.5	6149.9	6110.5	6100.6	6080.8	6140.1	6071.0	6071.0	6031.5
177.5°	6090.7	6100.6	6140.1	6080.8	6080.8	6100.6	6110.5	6031.5	6080.8
180°	6061.1	6061.1	6061.1	6061.1	6061.1	6061.1	6061.1	6061.1	6061.1

(END OF REPORT)