

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: P508381

Luminaire Tested: **ASYX-X-L5-X-U-F-L35-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508381
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-L35-1-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

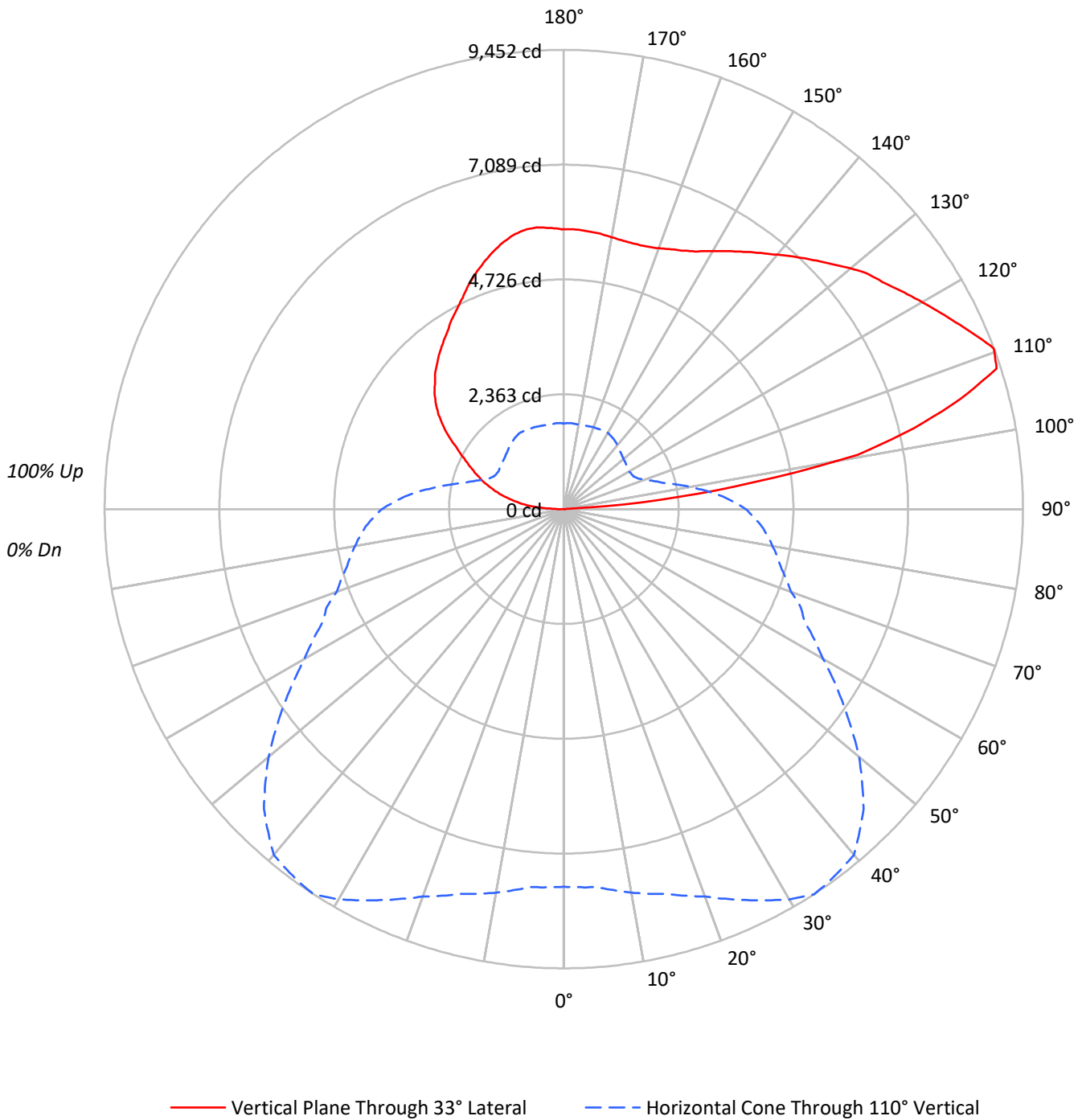
Lumens per Lamp: N/A
Luminaire Lumens: 27350.5 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
N/A
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
CIE Type: Indirect

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



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Luminous Intensity Polar Plot





TEST NUMBER: P508381

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				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°	66461	25499	55642
100°	168724	54301	45767
105°	163948	60115	39035
110°	163056	78574	37023
115°	142159	89089	33946
120°	118138	87559	32734
125°	100635	81612	33349
130°	86027	74815	35207
135°	74011	68772	35625
140°	64536	63481	35521
145°	56734	58543	35767
150°	49774	54675	35776
155°	45705	51278	36267
160°	42289	47808	37487
165°	40861	45254	39327
170°	40694	43224	40967
175°	41648	41851	41310



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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°	992.8	3.6
100°-110°	3661.7	13.4
110°-120°	4968.4	18.2
120°-130°	4946.3	18.1
130°-140°	4403.4	16.1
140°-150°	3578.2	13.1
150°-160°	2627.4	9.6
160°-170°	1621.4	5.9
170°-180°	550.9	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°	9622.9	35.2
90°-150°	22550.8	82.5
90°-180°	27350.0	100.0
0°-180°	27350.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	807	1192	310	469	676	1337
105°	5913	7941	2168	1276	1408	6293
115°	8372	8616	5247	2037	1999	8187
125°	8044	8044	6523	2891	2666	7190
135°	7293	7321	6777	3651	3510	5681
145°	6476	6495	6683	4327	4083	4073
155°	5772	5970	6476	5078	4580	2664
165°	5500	5697	6092	5641	5294	1571
175°	5782	5726	5810	5810	5735	543
180°	5763	5763	5763	5763	5763	



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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°	46.9	46.9	46.9	56.3	65.7	65.7	84.5	93.9	84.5	122.0	140.8
95°	807.2	929.2	1332.8	1586.2	1567.5	1483.0	1576.8	1849.0	1989.8	1811.5	1539.3
97.5°	2027.4	2102.5	2937.8	3332.0	3679.3	3848.3	3998.4	3876.4	3942.1	3904.6	3557.3
100°	4082.9	4326.9	4617.9	5021.5	5519.0	5875.6	6147.8	6363.7	6157.2	5828.7	4871.3
102.5°	5228.0	5312.5	5509.6	5716.1	6251.1	6513.9	6786.1	7255.4	7396.2	7330.5	6814.2
105°	5913.2	5960.1	6147.8	6457.6	6870.6	7161.5	7499.4	8109.5	8466.2	8503.7	8541.3
107.5°	6776.7	6879.9	7105.2	7302.3	7790.4	8128.3	8428.6	9057.5	9367.2	9386.0	9254.6
110°	7771.6	7809.2	8015.6	8203.4	8484.9	8682.1	8879.2	9273.4	9451.7	9423.5	9292.1
112.5°	8306.6	8353.5	8428.6	8494.3	8625.7	8710.2	8832.2	9085.7	9188.9	9217.1	9085.7
115°	8372.3	8372.3	8428.6	8438.0	8588.2	8588.2	8644.5	8888.5	8935.5	8973.0	8897.9
117.5°	8316.0	8334.8	8372.3	8353.5	8419.2	8513.1	8494.3	8644.5	8700.8	8672.7	8700.8
120°	8231.5	8212.8	8287.8	8250.3	8297.2	8353.5	8316.0	8428.6	8475.6	8456.8	8550.7
122.5°	8147.1	8147.1	8175.2	8165.8	8147.1	8128.3	8137.7	8212.8	8259.7	8250.3	8306.6
125°	8043.8	8034.4	8025.0	7987.5	8034.4	8006.3	7959.3	8015.6	8053.2	8034.4	8090.7
127.5°	7874.9	7884.2	7865.5	7846.7	7790.4	7781.0	7827.9	7799.8	7893.6	7837.3	7893.6
130°	7705.9	7705.9	7687.1	7649.6	7630.8	7593.3	7583.9	7602.7	7659.0	7677.8	7593.3
132.5°	7574.5	7508.8	7461.9	7433.7	7433.7	7396.2	7377.4	7396.2	7424.3	7471.3	7480.6
135°	7292.9	7255.4	7255.4	7217.8	7274.2	7189.7	7170.9	7199.1	7208.5	7208.5	7264.8
137.5°	7133.4	7039.5	7002.0	6992.6	6983.2	6955.0	6955.0	6992.6	7002.0	6992.6	7039.5
140°	6889.3	6786.1	6823.6	6776.7	6786.1	6739.2	6757.9	6757.9	6795.5	6795.5	6842.4
142.5°	6748.5	6598.4	6579.6	6551.4	6560.8	6542.0	6635.9	6570.2	6607.7	6673.5	6645.3
145°	6476.3	6354.3	6382.5	6354.3	6363.7	6344.9	6391.9	6382.5	6429.4	6420.0	6467.0
147.5°	6185.4	6176.0	6185.4	6166.6	6185.4	6166.6	6222.9	6213.5	6260.5	6288.6	6298.0
150°	6007.0	5969.5	5978.9	5997.7	5978.9	6016.4	6016.4	6054.0	6100.9	6110.3	6147.8
152.5°	5819.3	5809.9	5856.9	5828.7	5847.5	5847.5	5875.6	5885.0	5950.7	5960.1	6054.0
155°	5772.4	5687.9	5687.9	5678.5	5725.5	5725.5	5763.0	5819.3	5847.5	5894.4	5903.8
157.5°	5603.4	5594.1	5594.1	5631.6	5584.7	5641.0	5725.5	5697.3	5772.4	5781.8	5819.3
160°	5537.7	5509.6	5528.4	5547.1	5547.1	5594.1	5659.8	5650.4	5697.3	5753.6	5763.0
162.5°	5575.3	5481.4	5490.8	5537.7	5519.0	5584.7	5594.1	5612.8	5659.8	5678.5	5734.8
165°	5500.2	5472.0	5453.3	5472.0	5528.4	5556.5	5584.7	5603.4	5650.4	5659.8	5687.9
167.5°	5528.4	5519.0	5519.0	5537.7	5575.3	5575.3	5622.2	5612.8	5659.8	5659.8	5678.5
170°	5584.7	5556.5	5575.3	5612.8	5547.1	5650.4	5641.0	5612.8	5687.9	5687.9	5716.1
172.5°	5659.8	5631.6	5641.0	5641.0	5641.0	5697.3	5706.7	5716.1	5725.5	5716.1	5716.1
175°	5781.8	5706.7	5697.3	5697.3	5716.1	5716.1	5734.8	5687.9	5744.2	5744.2	5734.8
177.5°	5753.6	5725.5	5772.4	5725.5	5706.7	5744.2	5772.4	5734.8	5763.0	5734.8	5763.0
180°	5763.0	5763.0	5763.0	5763.0	5763.0	5763.0	5763.0	5763.0	5763.0	5763.0	5763.0



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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°	122.0	122.0	122.0	112.6	103.2	103.2	103.2	103.2	93.9	84.5	84.5
95°	1192.0	948.0	863.5	713.3	600.7	553.8	478.7	478.7	356.7	291.0	309.7
97.5°	2994.1	2327.7	1849.0	1398.5	1332.8	1248.3	1239.0	1051.2	929.2	844.7	732.1
100°	3885.8	3191.2	2768.9	2534.2	2224.5	2083.7	1980.4	1783.3	1661.3	1492.4	1314.0
102.5°	5772.4	4796.2	3970.3	3275.7	2806.4	2609.3	2477.9	2271.4	2121.2	1952.3	1727.0
105°	7940.6	6570.2	5190.5	4148.6	3519.8	3266.3	3041.1	2834.6	2637.5	2374.7	2168.2
107.5°	8522.5	7527.6	6485.7	5321.9	4449.0	4195.5	3932.7	3585.5	3322.6	3097.4	2740.7
110°	8729.0	7931.2	7030.1	6166.6	5462.7	5284.3	4974.6	4627.3	4364.5	4092.3	3745.0
112.5°	8644.5	8147.1	7424.3	6654.7	6082.1	5903.8	5678.5	5462.7	5321.9	5115.4	4655.5
115°	8616.4	8212.8	7705.9	7020.7	6504.5	6307.4	6129.1	5932.0	5894.4	5753.6	5246.8
117.5°	8494.3	8222.1	7837.3	7283.5	6823.6	6692.2	6513.9	6354.3	6335.6	6194.8	5753.6
120°	8409.9	8184.6	7856.1	7490.0	7095.8	6955.0	6804.9	6682.8	6626.5	6523.3	6100.9
122.5°	8212.8	8128.3	7874.9	7565.1	7208.5	7142.8	7002.0	6795.5	6889.3	6776.7	6373.1
125°	8043.8	7996.9	7931.2	7555.7	7302.3	7217.8	7114.6	6992.6	7020.7	6945.6	6523.3
127.5°	7865.5	7856.1	7809.2	7583.9	7349.2	7311.7	7189.7	7095.8	7077.0	7002.0	6626.5
130°	7724.7	7715.3	7649.6	7499.4	7349.2	7339.9	7217.8	7142.8	7133.4	7067.7	6701.6
132.5°	7518.2	7518.2	7555.7	7405.6	7311.7	7283.5	7227.2	7133.4	7161.5	7020.7	6739.2
135°	7321.1	7330.5	7358.6	7283.5	7339.9	7236.6	7180.3	7058.3	7114.6	7058.3	6776.7
137.5°	7095.8	7124.0	7180.3	7152.1	7180.3	7189.7	7114.6	7086.4	7086.4	7030.1	6767.3
140°	6823.6	6936.3	7039.5	7030.1	7086.4	7077.0	7048.9	6917.5	7039.5	7002.0	6776.7
142.5°	6701.6	6767.3	6889.3	6861.2	6983.2	6983.2	6964.4	6955.0	6983.2	6917.5	6739.2
145°	6495.1	6598.4	6692.2	6748.5	6823.6	6898.7	6870.6	6889.3	6898.7	6898.7	6682.8
147.5°	6363.7	6476.3	6598.4	6617.1	6748.5	6767.3	6776.7	6804.9	6861.2	6786.1	6701.6
150°	6222.9	6298.0	6438.8	6495.1	6635.9	6664.1	6654.7	6692.2	6786.1	6729.8	6598.4
152.5°	6007.0	6166.6	6288.6	6373.1	6476.3	6542.0	6551.4	6551.4	6635.9	6635.9	6560.8
155°	5969.5	6054.0	6166.6	6251.1	6363.7	6429.4	6438.8	6438.8	6523.3	6495.1	6476.3
157.5°	5885.0	5997.7	6091.5	6119.7	6260.5	6316.8	6316.8	6335.6	6410.6	6429.4	6363.7
160°	5828.7	5885.0	5997.7	6082.1	6157.2	6222.9	6232.3	6251.1	6298.0	6288.6	6260.5
162.5°	5744.2	5828.7	5932.0	5978.9	6063.4	6129.1	6119.7	6119.7	6204.1	6222.9	6185.4
165°	5697.3	5791.2	5913.2	5941.3	5997.7	6035.2	6025.8	6054.0	6129.1	6110.3	6091.5
167.5°	5716.1	5763.0	5866.3	5856.9	5922.6	5950.7	5950.7	5932.0	5978.9	5913.2	5969.5
170°	5744.2	5744.2	5800.6	5819.3	5875.6	5903.8	5875.6	5875.6	5903.8	5922.6	5932.0
172.5°	5753.6	5744.2	5791.2	5781.8	5800.6	5847.5	5819.3	5781.8	5838.1	5875.6	5828.7
175°	5725.5	5734.8	5809.9	5791.2	5763.0	5809.9	5763.0	5753.6	5838.1	5828.7	5809.9
177.5°	5697.3	5697.3	5744.2	5706.7	5772.4	5772.4	5725.5	5725.5	5819.3	5753.6	5734.8
180°	5763.0	5763.0	5763.0	5763.0	5763.0	5763.0	5763.0	5763.0	5763.0	5763.0	5763.0



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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°	93.9	103.2	112.6	131.4	140.8	150.2	168.9	187.7	215.9	215.9	253.4
95°	300.4	309.7	309.7	328.5	337.9	337.9	347.3	384.8	422.4	469.3	553.8
97.5°	638.2	563.2	544.4	544.4	553.8	553.8	563.2	581.9	610.1	666.4	750.9
100°	1126.3	957.4	835.4	769.7	750.9	741.5	750.9	750.9	797.8	872.9	966.8
102.5°	1473.6	1248.3	1041.8	948.0	910.4	919.8	910.4	929.2	994.9	1060.6	1163.9
105°	1858.4	1567.5	1304.7	1163.9	1107.5	1098.2	1098.2	1116.9	1192.0	1276.5	1351.6
107.5°	2384.0	2018.0	1633.2	1426.7	1342.2	1323.4	1323.4	1351.6	1398.5	1454.8	1539.3
110°	3228.8	2628.1	2093.1	1764.6	1651.9	1586.2	1548.7	1576.8	1605.0	1651.9	1717.6
112.5°	4017.2	3275.7	2571.8	2074.3	1924.1	1820.9	1764.6	1764.6	1802.1	1839.7	1886.6
115°	4561.6	3735.6	2975.4	2393.4	2177.6	2083.7	1961.7	1971.1	1999.2	2036.8	2064.9
117.5°	5049.7	4167.4	3313.3	2693.8	2449.7	2299.6	2177.6	2149.4	2205.7	2252.6	2271.4
120°	5397.0	4542.8	3651.2	3003.5	2721.9	2553.0	2384.0	2355.9	2412.2	2421.6	2515.4
122.5°	5687.9	4815.0	3942.1	3275.7	2975.4	2834.6	2628.1	2590.5	2628.1	2693.8	2768.9
125°	5875.6	5059.1	4204.9	3529.1	3247.6	3059.8	2844.0	2815.8	2844.0	2890.9	2975.4
127.5°	6025.8	5256.2	4458.4	3791.9	3463.4	3313.3	3097.4	3041.1	3078.6	3097.4	3191.2
130°	6138.4	5481.4	4693.0	4045.4	3754.4	3604.2	3313.3	3256.9	3275.7	3322.6	3369.6
132.5°	6251.1	5622.2	4927.7	4308.2	4026.6	3857.6	3576.1	3454.1	3463.4	3501.0	3547.9
135°	6326.2	5772.4	5171.7	4571.0	4261.2	4129.8	3829.5	3707.5	3660.5	3651.2	3707.5
137.5°	6401.3	5913.2	5359.4	4815.0	4552.2	4402.0	4045.4	3904.6	3857.6	3848.3	3867.0
140°	6467.0	6035.2	5528.4	5077.8	4815.0	4636.7	4308.2	4129.8	4054.8	4017.2	4036.0
142.5°	6495.1	6138.4	5706.7	5359.4	5040.3	4833.8	4561.6	4383.3	4223.7	4176.8	4139.2
145°	6513.9	6298.0	5875.6	5537.7	5293.7	5171.7	4843.2	4608.5	4420.8	4326.9	4308.2
147.5°	6513.9	6288.6	5988.3	5687.9	5481.4	5350.0	4993.4	4843.2	4693.0	4533.4	4458.4
150°	6495.1	6391.9	6072.7	5838.1	5622.2	5519.0	5265.5	4984.0	4824.4	4711.8	4627.3
152.5°	6448.2	6307.4	6119.7	5913.2	5753.6	5687.9	5397.0	5218.6	5049.7	4880.7	4815.0
155°	6401.3	6288.6	6147.8	5978.9	5847.5	5763.0	5556.5	5378.2	5256.2	5077.8	5012.1
157.5°	6344.9	6269.9	6147.8	6054.0	5903.8	5847.5	5641.0	5519.0	5415.7	5237.4	5152.9
160°	6260.5	6213.5	6138.4	6007.0	5941.3	5894.4	5725.5	5631.6	5528.4	5397.0	5331.3
162.5°	6176.0	6185.4	6091.5	6063.4	5960.1	5922.6	5809.9	5706.7	5603.4	5528.4	5472.0
165°	6110.3	6147.8	6054.0	5960.1	5960.1	5941.3	5819.3	5772.4	5725.5	5641.0	5575.3
167.5°	5988.3	6035.2	6035.2	5922.6	5913.2	5941.3	5866.3	5819.3	5781.8	5716.1	5678.5
170°	5969.5	5969.5	5903.8	5913.2	5941.3	5875.6	5828.7	5819.3	5819.3	5781.8	5753.6
172.5°	5856.9	5913.2	5885.0	5866.3	5838.1	5838.1	5809.9	5819.3	5800.6	5809.9	5800.6
175°	5819.3	5828.7	5838.1	5828.7	5800.6	5800.6	5791.2	5800.6	5809.9	5809.9	5791.2
177.5°	5763.0	5791.2	5838.1	5791.2	5809.9	5772.4	5763.0	5781.8	5781.8	5791.2	5772.4
180°	5763.0	5763.0	5763.0	5763.0	5763.0	5763.0	5763.0	5763.0	5763.0	5763.0	5763.0



TEST NUMBER: P508381

CATALOG NUMBER: ASYX-X-L5-X-U-F-L35-1-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°	281.6	300.4	309.7	319.1	328.5	300.4	300.4	272.2	253.4
95°	600.7	647.6	647.6	647.6	675.8	694.6	685.2	675.8	675.8
97.5°	816.6	891.7	948.0	957.4	957.4	957.4	966.8	966.8	948.0
100°	1032.5	1070.0	1107.5	1116.9	1107.5	1107.5	1098.2	1116.9	1107.5
102.5°	1239.0	1276.5	1285.9	1295.3	1285.9	1276.5	1257.7	1276.5	1239.0
105°	1417.3	1454.8	1445.4	1436.1	1426.7	1407.9	1389.1	1417.3	1407.9
107.5°	1614.4	1623.8	1633.2	1642.6	1605.0	1595.6	1595.6	1614.4	1605.0
110°	1774.0	1811.5	1802.1	1792.7	1792.7	1774.0	1764.6	1774.0	1764.6
112.5°	1942.9	1961.7	1952.3	1952.3	1942.9	1914.7	1886.6	1896.0	1886.6
115°	2121.2	2130.6	2121.2	2102.5	2083.7	2064.9	2027.4	2008.6	1999.2
117.5°	2309.0	2299.6	2280.8	2271.4	2252.6	2243.3	2186.9	2158.8	2149.4
120°	2524.8	2496.7	2459.1	2449.7	2421.6	2412.2	2337.1	2290.2	2280.8
122.5°	2787.6	2740.7	2665.6	2628.1	2618.7	2590.5	2496.7	2477.9	2449.7
125°	3012.9	2994.1	2947.2	2919.0	2881.5	2797.0	2693.8	2646.9	2665.6
127.5°	3228.8	3219.4	3200.6	3163.1	3116.2	3078.6	2994.1	2919.0	2900.3
130°	3407.1	3416.5	3388.3	3360.2	3332.0	3294.5	3200.6	3153.7	3153.7
132.5°	3576.1	3585.5	3604.2	3529.1	3510.4	3472.8	3388.3	3332.0	3350.8
135°	3707.5	3726.2	3698.1	3669.9	3651.2	3613.6	3529.1	3501.0	3510.4
137.5°	3885.8	3867.0	3838.9	3820.1	3773.2	3763.8	3698.1	3651.2	3632.4
140°	3998.4	4007.8	4007.8	3960.9	3914.0	3895.2	3829.5	3782.6	3791.9
142.5°	4148.6	4111.1	4129.8	4082.9	4054.8	4026.6	3942.1	3932.7	3932.7
145°	4261.2	4242.5	4233.1	4195.5	4186.2	4129.8	4101.7	4054.8	4082.9
147.5°	4383.3	4383.3	4383.3	4298.8	4280.0	4251.9	4223.7	4186.2	4214.3
150°	4561.6	4495.9	4477.1	4430.2	4392.7	4373.9	4308.2	4289.4	4317.6
152.5°	4702.4	4627.3	4571.0	4542.8	4533.4	4505.3	4467.7	4439.6	4439.6
155°	4871.3	4768.1	4768.1	4664.8	4636.7	4617.9	4580.4	4571.0	4580.4
157.5°	5049.7	4955.8	4908.9	4852.6	4805.6	4786.9	4739.9	4721.2	4739.9
160°	5181.1	5171.7	5068.4	5040.3	4993.4	4965.2	4955.8	4908.9	4908.9
162.5°	5387.6	5256.2	5237.4	5209.2	5171.7	5134.1	5115.4	5096.6	5115.4
165°	5500.2	5462.7	5415.7	5378.2	5350.0	5340.6	5284.3	5303.1	5293.7
167.5°	5631.6	5603.4	5556.5	5528.4	5537.7	5500.2	5500.2	5453.3	5462.7
170°	5725.5	5744.2	5687.9	5659.8	5641.0	5641.0	5603.4	5603.4	5622.2
172.5°	5791.2	5819.3	5772.4	5753.6	5734.8	5753.6	5716.1	5706.7	5725.5
175°	5809.9	5847.5	5809.9	5800.6	5781.8	5838.1	5772.4	5772.4	5734.8
177.5°	5791.2	5800.6	5838.1	5781.8	5781.8	5800.6	5809.9	5734.8	5781.8
180°	5763.0	5763.0	5763.0	5763.0	5763.0	5763.0	5763.0	5763.0	5763.0

(END OF REPORT)