

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: P508458

Luminaire Tested: **ASYX-X-S3-X-U-W-L40-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508458
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-S3-X-U-W-L40-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(3) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

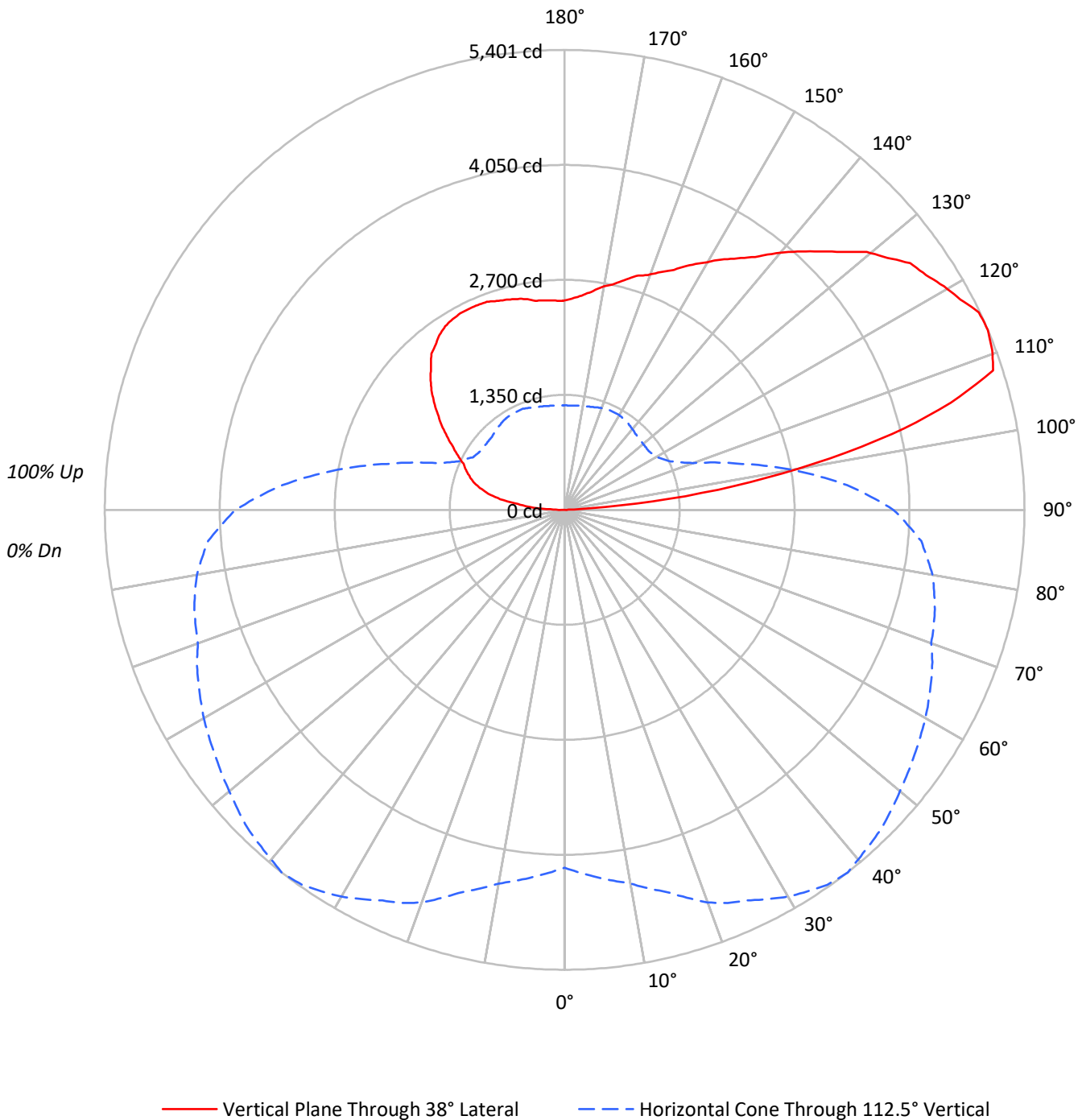
Lumens per Lamp: N/A
Luminaire Lumens: 16236.4 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
N/A
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
CIE Type: Indirect

Input Watts (W): 160.2
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: P508458
CATALOG NUMBER: ASYX-X-S3-X-U-W-L40-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot





TEST NUMBER: P508458

CATALOG NUMBER: ASYX-X-S3-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	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°	50257	55938	71104
100°	137049	106113	64714
105°	137287	113337	59383
110°	152935	139402	50010
115°	161307	139801	41648
120°	151217	123122	38673
125°	132107	105312	38466
130°	113641	87417	39852
135°	96409	75024	40551
140°	80902	63858	41852
145°	68393	56188	41965
150°	58203	49808	42078
155°	50967	44585	40938
160°	45903	40626	39835
165°	42089	38239	38154
170°	39100	36416	36583
175°	36580	35501	35335



TEST NUMBER: P508458

CATALOG NUMBER: ASYX-X-S3-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°	664.5	4.1
100°-110°	2405.4	14.8
110°-120°	3242.6	20.0
120°-130°	3086.2	19.0
130°-140°	2571.3	15.8
140°-150°	1947.9	12.0
150°-160°	1325.6	8.2
160°-170°	753.2	4.6
170°-180°	239.6	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°	6312.5	38.9
90°-150°	13918.0	85.7
90°-180°	16236.0	100.0
0°-180°	16236.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	305	996	340	340	432	543
105°	2476	5055	2044	904	1071	2686
115°	4750	5170	4117	1307	1226	4580
125°	5280	4727	4209	1756	1537	4712
135°	4750	4071	3696	2228	1998	3681
145°	3904	3472	3207	2533	2395	2469
155°	3218	3052	2816	2626	2585	1504
165°	2833	2746	2574	2556	2568	808
175°	2539	2504	2464	2458	2453	247
180°	2453	2453	2453	2453	2453	



TEST NUMBER: P508458

CATALOG NUMBER: ASYX-X-S3-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°	46.1	46.1	46.1	51.8	57.6	63.3	63.3	80.6	103.6	109.4	126.7
95°	305.2	351.2	523.9	604.5	610.3	627.6	627.6	794.5	990.3	1036.4	1082.4
97.5°	817.6	875.2	1059.4	1203.3	1410.6	1468.2	1537.3	1675.5	1888.5	2015.2	2078.5
100°	1658.2	1669.7	1767.6	1900.0	2124.5	2251.2	2406.7	2786.7	2976.7	2976.7	2907.6
102.5°	2101.5	2113.0	2199.4	2326.1	2590.9	2780.9	2959.4	3420.0	3805.8	3949.7	4007.3
105°	2475.8	2516.1	2608.2	2786.7	3109.1	3322.1	3489.1	4013.0	4462.1	4709.7	4899.7
107.5°	2953.6	3017.0	3172.4	3379.7	3765.5	4013.0	4226.1	4652.1	5043.6	5291.2	5285.5
110°	3644.6	3679.1	3840.3	4110.9	4444.9	4640.6	4773.0	5072.4	5337.3	5360.3	5371.8
112.5°	4203.0	4329.7	4456.4	4646.4	4905.5	4997.6	5060.9	5245.2	5377.6	5400.6	5360.3
115°	4750.0	4796.1	4859.4	4986.1	5107.0	5199.1	5210.6	5308.5	5337.3	5389.1	5297.0
117.5°	5089.7	5112.7	5118.5	5164.6	5227.9	5279.7	5268.2	5297.0	5331.5	5262.4	5216.4
120°	5268.2	5291.2	5250.9	5268.2	5285.5	5297.0	5273.9	5285.5	5222.1	5170.3	5118.5
122.5°	5337.3	5331.5	5291.2	5291.2	5268.2	5262.4	5216.4	5176.1	5130.0	5060.9	4997.6
125°	5279.7	5302.7	5250.9	5210.6	5158.8	5245.2	5130.0	5089.7	5009.1	4986.1	4865.2
127.5°	5204.9	5250.9	5164.6	5124.2	5072.4	5055.2	4986.1	4928.5	4870.9	4807.6	4727.0
130°	5089.7	5107.0	5026.4	4986.1	4934.2	4882.4	4870.9	4744.2	4703.9	4663.6	4554.2
132.5°	4974.6	4945.8	4865.2	4813.3	4750.0	4721.2	4692.4	4583.0	4525.5	4439.1	4381.5
135°	4750.0	4755.8	4680.9	4623.3	4537.0	4537.0	4485.2	4404.6	4329.7	4254.9	4180.0
137.5°	4537.0	4577.3	4467.9	4416.1	4370.0	4335.5	4266.4	4191.5	4110.9	4082.1	4024.6
140°	4318.2	4323.9	4237.6	4191.5	4157.0	4093.6	4053.3	3984.2	3955.5	3903.6	3823.0
142.5°	4128.2	4105.2	4036.1	3984.2	3949.7	3903.6	3880.6	3811.5	3765.5	3719.4	3690.6
145°	3903.6	3897.9	3817.3	3782.7	3753.9	3736.7	3696.4	3644.6	3621.5	3581.2	3581.2
147.5°	3713.6	3684.9	3638.8	3598.5	3563.9	3546.7	3546.7	3454.5	3471.8	3466.1	3414.2
150°	3512.1	3506.4	3443.0	3425.8	3397.0	3408.5	3397.0	3356.7	3356.7	3333.6	3299.1
152.5°	3350.9	3350.9	3299.1	3287.6	3276.1	3270.3	3247.3	3230.0	3230.0	3224.2	3183.9
155°	3218.5	3218.5	3178.2	3172.4	3155.2	3149.4	3137.9	3120.6	3109.1	3097.6	3063.0
157.5°	3109.1	3103.3	3057.3	3063.0	3045.8	3045.8	3040.0	3005.5	3017.0	3011.2	2988.2
160°	3005.5	2999.7	2953.6	2970.9	2959.4	2959.4	2959.4	2936.4	2924.9	2924.9	2873.0
162.5°	2913.3	2924.9	2878.8	2873.0	2878.8	2878.8	2855.8	2838.5	2855.8	2873.0	2821.2
165°	2832.7	2821.2	2803.9	2798.2	2786.7	2775.2	2786.7	2775.2	2763.6	2786.7	2769.4
167.5°	2752.1	2763.6	2729.1	2717.6	2717.6	2740.6	2723.3	2700.3	2711.8	2706.1	2671.5
170°	2683.0	2694.5	2648.5	2648.5	2648.5	2648.5	2631.2	2613.9	2642.7	2654.2	2613.9
172.5°	2613.9	2631.2	2590.9	2585.2	2579.4	2590.9	2579.4	2562.1	2596.7	2579.4	2562.1
175°	2539.1	2567.9	2527.6	2521.8	2533.3	2533.3	2521.8	2510.3	2533.3	2521.8	2510.3
177.5°	2504.5	2504.5	2464.2	2470.0	2470.0	2464.2	2481.5	2475.8	2481.5	2481.5	2504.5
180°	2452.7	2452.7	2452.7	2452.7	2452.7	2452.7	2452.7	2452.7	2452.7	2452.7	2452.7



TEST NUMBER: P508458

CATALOG NUMBER: ASYX-X-S3-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°	132.4	155.5	167.0	92.1	92.1	103.6	97.9	86.4	74.8	69.1	69.1
95°	996.1	944.2	973.0	875.2	760.0	667.9	662.1	667.9	460.6	345.5	339.7
97.5°	2141.8	2118.8	1940.3	1663.9	1583.3	1589.1	1491.2	1237.9	1036.4	886.7	765.8
100°	2786.7	2711.8	2631.2	2688.8	2527.6	2400.9	2222.4	1997.9	1761.8	1560.3	1283.9
102.5°	3972.7	3857.6	3563.9	3241.5	2919.1	2803.9	2671.5	2418.2	2170.6	1934.5	1652.4
105°	5055.2	4859.4	4364.2	3903.6	3466.1	3333.6	3160.9	2878.8	2590.9	2354.9	2043.9
107.5°	5314.2	5170.3	4893.9	4583.0	4203.0	3984.2	3823.0	3517.9	3247.3	2924.9	2567.9
110°	5337.3	5193.3	5020.6	4807.6	4623.3	4496.7	4393.0	4162.7	3967.0	3684.9	3322.1
112.5°	5273.9	5141.5	5014.9	4893.9	4750.0	4675.2	4583.0	4502.4	4387.3	4203.0	3863.3
115°	5170.3	5055.2	4940.0	4836.4	4767.3	4732.7	4686.7	4623.3	4560.0	4421.8	4116.7
117.5°	5072.4	4940.0	4836.4	4801.8	4738.5	4686.7	4680.9	4669.4	4629.1	4560.0	4266.4
120°	4974.6	4870.9	4767.3	4692.4	4669.4	4663.6	4663.6	4629.1	4640.6	4583.0	4289.4
122.5°	4819.1	4738.5	4652.1	4617.6	4519.7	4542.7	4554.2	4531.2	4577.3	4537.0	4260.6
125°	4727.0	4646.4	4537.0	4485.2	4467.9	4444.9	4467.9	4427.6	4450.6	4421.8	4208.8
127.5°	4571.5	4467.9	4410.3	4370.0	4358.5	4277.9	4318.2	4323.9	4329.7	4283.6	4093.6
130°	4404.6	4347.0	4214.6	4231.8	4231.8	4203.0	4208.8	4185.8	4174.2	4133.9	3915.2
132.5°	4283.6	4208.8	4122.4	4099.4	4076.4	4070.6	4070.6	4030.3	4030.3	3978.5	3834.6
135°	4070.6	4018.8	3984.2	3961.2	3955.5	3932.4	3932.4	3892.1	3886.4	3840.3	3696.4
137.5°	3920.9	3869.1	3840.3	3823.0	3805.8	3765.5	3788.5	3753.9	3719.4	3707.9	3569.7
140°	3771.2	3730.9	3707.9	3679.1	3673.3	3650.3	3650.3	3610.0	3598.5	3546.7	3408.5
142.5°	3644.6	3621.5	3575.5	3563.9	3523.6	3529.4	3500.6	3506.4	3460.3	3402.7	3293.3
145°	3471.8	3477.6	3454.5	3431.5	3425.8	3391.2	3397.0	3362.4	3333.6	3293.3	3207.0
147.5°	3379.7	3379.7	3345.2	3316.4	3293.3	3287.6	3258.8	3264.5	3218.5	3160.9	3103.3
150°	3258.8	3247.3	3212.7	3195.5	3178.2	3178.2	3149.4	3132.1	3097.6	3080.3	3005.5
152.5°	3172.4	3143.6	3126.4	3091.8	3091.8	3063.0	3040.0	3028.5	2999.7	2965.2	2907.6
155°	3051.5	3040.0	3017.0	3011.2	2988.2	2965.2	2924.9	2919.1	2901.8	2867.3	2815.5
157.5°	2953.6	2970.9	2936.4	2919.1	2884.5	2878.8	2838.5	2844.2	2809.7	2786.7	2740.6
160°	2907.6	2878.8	2844.2	2838.5	2827.0	2780.9	2775.2	2757.9	2734.9	2717.6	2660.0
162.5°	2803.9	2798.2	2780.9	2769.4	2729.1	2729.1	2660.0	2688.8	2671.5	2654.2	2625.5
165°	2746.4	2752.1	2711.8	2700.3	2688.8	2665.8	2648.5	2631.2	2613.9	2602.4	2573.6
167.5°	2671.5	2660.0	2648.5	2625.5	2631.2	2613.9	2596.7	2585.2	2573.6	2562.1	2539.1
170°	2608.2	2602.4	2590.9	2573.6	2579.4	2562.1	2562.1	2539.1	2533.3	2527.6	2498.8
172.5°	2556.4	2556.4	2544.9	2544.9	2539.1	2521.8	2510.3	2498.8	2498.8	2487.3	2481.5
175°	2504.5	2510.3	2504.5	2498.8	2498.8	2487.3	2487.3	2493.0	2481.5	2481.5	2464.2
177.5°	2464.2	2464.2	2464.2	2464.2	2464.2	2464.2	2464.2	2458.5	2464.2	2458.5	2441.2
180°	2452.7	2452.7	2452.7	2452.7	2452.7	2452.7	2452.7	2452.7	2452.7	2452.7	2452.7



TEST NUMBER: P508458

CATALOG NUMBER: ASYX-X-S3-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°	74.8	80.6	86.4	92.1	109.4	103.6	120.9	126.7	138.2	161.2	167.0
95°	305.2	305.2	299.4	299.4	287.9	287.9	282.1	276.4	305.2	339.7	385.8
97.5°	627.6	535.5	489.4	472.1	466.4	460.6	449.1	431.8	443.3	472.1	529.7
100°	1059.4	875.2	725.5	639.1	621.8	593.0	581.5	575.8	575.8	633.3	725.5
102.5°	1370.3	1099.7	903.9	777.3	742.7	713.9	696.7	696.7	708.2	777.3	880.9
105°	1733.0	1387.6	1088.2	921.2	892.4	852.1	823.3	829.1	840.6	903.9	996.1
107.5°	2170.6	1756.1	1399.1	1140.0	1076.7	1019.1	973.0	973.0	978.8	1019.1	1088.2
110°	2827.0	2291.5	1756.1	1370.3	1266.7	1203.3	1093.9	1093.9	1088.2	1117.0	1163.0
112.5°	3327.9	2706.1	2095.8	1600.6	1456.7	1353.0	1237.9	1203.3	1203.3	1209.1	1237.9
115°	3627.3	2982.4	2331.8	1813.6	1623.6	1497.0	1353.0	1312.7	1295.5	1307.0	1295.5
117.5°	3800.0	3149.4	2533.3	1969.1	1790.6	1646.7	1468.2	1416.4	1387.6	1410.6	1404.9
120°	3886.4	3299.1	2694.5	2130.3	1946.1	1779.1	1589.1	1537.3	1514.2	1514.2	1520.0
122.5°	3897.9	3379.7	2786.7	2274.2	2090.0	1928.8	1733.0	1658.2	1635.2	1640.9	1640.9
125°	3857.6	3368.2	2873.0	2389.4	2210.9	2049.7	1848.2	1784.9	1733.0	1756.1	1761.8
127.5°	3794.2	3339.4	2924.9	2481.5	2320.3	2176.4	1992.1	1917.3	1871.2	1882.7	1877.0
130°	3702.1	3304.9	2970.9	2562.1	2423.9	2280.0	2118.8	2049.7	1986.4	1992.1	1997.9
132.5°	3610.0	3293.3	2993.9	2625.5	2510.3	2389.4	2228.2	2159.1	2101.5	2107.3	2107.3
135°	3512.1	3264.5	2965.2	2665.8	2608.2	2481.5	2349.1	2274.2	2228.2	2228.2	2216.7
137.5°	3408.5	3195.5	2988.2	2746.4	2665.8	2562.1	2429.7	2372.1	2326.1	2320.3	2314.5
140°	3316.4	3120.6	2959.4	2763.6	2706.1	2625.5	2516.1	2470.0	2406.7	2395.2	2429.7
142.5°	3224.2	3086.1	2988.2	2803.9	2746.4	2677.3	2596.7	2533.3	2487.3	2475.8	2470.0
145°	3132.1	3051.5	2942.1	2792.4	2769.4	2700.3	2613.9	2596.7	2544.9	2533.3	2533.3
147.5°	3040.0	2970.9	2890.3	2786.7	2786.7	2729.1	2688.8	2637.0	2596.7	2573.6	2573.6
150°	2959.4	2901.8	2861.5	2780.9	2775.2	2729.1	2694.5	2671.5	2625.5	2613.9	2608.2
152.5°	2884.5	2832.7	2798.2	2746.4	2740.6	2677.3	2688.8	2665.8	2619.7	2608.2	2608.2
155°	2792.4	2786.7	2746.4	2694.5	2717.6	2683.0	2654.2	2683.0	2613.9	2625.5	2625.5
157.5°	2729.1	2723.3	2717.6	2665.8	2671.5	2654.2	2637.0	2660.0	2602.4	2608.2	2608.2
160°	2660.0	2648.5	2648.5	2602.4	2637.0	2602.4	2608.2	2619.7	2585.2	2590.9	2608.2
162.5°	2625.5	2602.4	2602.4	2585.2	2596.7	2585.2	2556.4	2596.7	2590.9	2579.4	2585.2
165°	2567.9	2562.1	2573.6	2539.1	2567.9	2533.3	2544.9	2562.1	2550.6	2556.4	2562.1
167.5°	2533.3	2527.6	2533.3	2516.1	2533.3	2521.8	2516.1	2539.1	2527.6	2533.3	2539.1
170°	2504.5	2504.5	2510.3	2493.0	2510.3	2493.0	2510.3	2510.3	2504.5	2504.5	2516.1
172.5°	2493.0	2475.8	2493.0	2464.2	2493.0	2458.5	2470.0	2487.3	2481.5	2475.8	2475.8
175°	2470.0	2464.2	2481.5	2452.7	2470.0	2452.7	2452.7	2470.0	2464.2	2458.5	2481.5
177.5°	2470.0	2452.7	2470.0	2441.2	2458.5	2447.0	2447.0	2464.2	2452.7	2452.7	2470.0
180°	2452.7	2452.7	2452.7	2452.7	2452.7	2452.7	2452.7	2452.7	2452.7	2452.7	2452.7



TEST NUMBER: P508458

CATALOG NUMBER: ASYX-X-S3-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°	167.0	195.8	201.5	218.8	213.0	178.5	155.5	126.7	109.4
95°	437.6	483.6	529.7	523.9	541.2	506.7	472.1	454.8	431.8
97.5°	587.3	662.1	708.2	708.2	713.9	690.9	679.4	690.9	662.1
100°	829.1	880.9	898.2	892.4	875.2	834.8	811.8	800.3	783.0
102.5°	973.0	1030.6	1047.9	1036.4	1024.8	1007.6	984.5	973.0	967.3
105°	1070.9	1122.7	1145.8	1140.0	1134.2	1105.5	1059.4	1076.7	1070.9
107.5°	1163.0	1197.6	1220.6	1203.3	1197.6	1180.3	1151.5	1168.8	1145.8
110°	1220.6	1249.4	1255.2	1255.2	1243.6	1226.4	1203.3	1209.1	1191.8
112.5°	1266.7	1283.9	1283.9	1283.9	1272.4	1249.4	1237.9	1226.4	1226.4
115°	1318.5	1307.0	1312.7	1312.7	1301.2	1266.7	1249.4	1237.9	1226.4
117.5°	1410.6	1393.3	1376.1	1376.1	1347.3	1324.2	1307.0	1289.7	1272.4
120°	1497.0	1485.5	1473.9	1456.7	1439.4	1410.6	1381.8	1358.8	1347.3
122.5°	1612.1	1583.3	1566.1	1577.6	1543.0	1514.2	1479.7	1456.7	1427.9
125°	1738.8	1715.8	1687.0	1675.5	1646.7	1623.6	1594.9	1571.8	1537.3
127.5°	1848.2	1813.6	1802.1	1796.4	1761.8	1733.0	1687.0	1669.7	1669.7
130°	1974.9	1934.5	1940.3	1911.5	1882.7	1836.7	1790.6	1790.6	1784.9
132.5°	2095.8	2049.7	2043.9	2032.4	1997.9	1963.3	1934.5	1928.8	1905.8
135°	2193.6	2159.1	2153.3	2141.8	2113.0	2078.5	2032.4	2043.9	1997.9
137.5°	2280.0	2262.7	2257.0	2233.9	2205.2	2199.4	2147.6	2141.8	2113.0
140°	2377.9	2343.3	2366.4	2337.6	2303.0	2291.5	2222.4	2233.9	2233.9
142.5°	2447.0	2429.7	2423.9	2412.4	2389.4	2366.4	2349.1	2326.1	2337.6
145°	2516.1	2504.5	2493.0	2493.0	2458.5	2447.0	2412.4	2412.4	2395.2
147.5°	2573.6	2550.6	2550.6	2539.1	2521.8	2510.3	2475.8	2493.0	2464.2
150°	2573.6	2585.2	2573.6	2573.6	2579.4	2573.6	2544.9	2533.3	2539.1
152.5°	2619.7	2602.4	2590.9	2613.9	2585.2	2602.4	2562.1	2573.6	2562.1
155°	2596.7	2608.2	2613.9	2602.4	2602.4	2602.4	2585.2	2613.9	2585.2
157.5°	2619.7	2608.2	2613.9	2608.2	2596.7	2613.9	2596.7	2619.7	2602.4
160°	2608.2	2596.7	2608.2	2602.4	2590.9	2613.9	2613.9	2631.2	2608.2
162.5°	2567.9	2579.4	2608.2	2590.9	2590.9	2631.2	2567.9	2625.5	2590.9
165°	2556.4	2562.1	2573.6	2585.2	2562.1	2579.4	2579.4	2585.2	2567.9
167.5°	2544.9	2521.8	2544.9	2544.9	2550.6	2550.6	2550.6	2562.1	2539.1
170°	2521.8	2475.8	2521.8	2521.8	2510.3	2510.3	2504.5	2539.1	2510.3
172.5°	2481.5	2470.0	2487.3	2487.3	2498.8	2493.0	2493.0	2498.8	2481.5
175°	2458.5	2464.2	2487.3	2470.0	2464.2	2470.0	2452.7	2470.0	2452.7
177.5°	2447.0	2447.0	2452.7	2458.5	2470.0	2458.5	2441.2	2458.5	2441.2
180°	2452.7	2452.7	2452.7	2452.7	2452.7	2452.7	2452.7	2452.7	2452.7

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