

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: P508360

Luminaire Tested: **ASYX-X-L3-X-U-W-L30-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508360
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-L3-X-U-W-L30-1-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

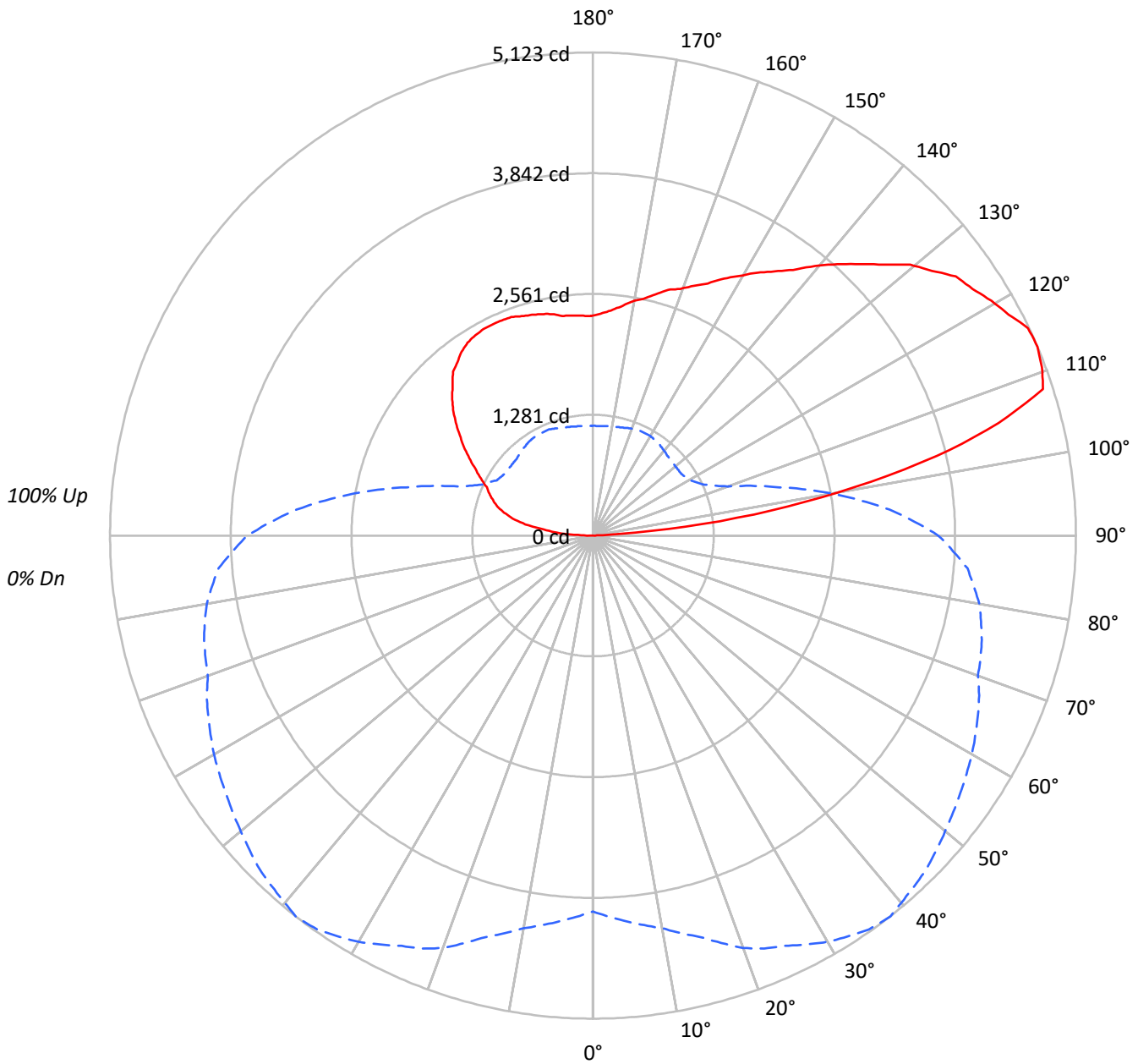
Lumens per Lamp: N/A
Luminaire Lumens: 15401.3 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
N/A
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Indirect

Input Watts (W): 165.2
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: P508360
CATALOG NUMBER: ASYX-X-L3-X-U-W-L30-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot



— Vertical Plane Through 38° Lateral - - - Horizontal Cone Through 112.5° Vertical



TEST NUMBER: P508360

CATALOG NUMBER: ASYX-X-L3-X-U-W-L30-1-UNV-X-X-X-STD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									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	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°	35754	39792	50586
100°	97499	75494	46044
105°	97667	80632	42246
110°	108800	99176	35579
115°	114758	99456	29629
120°	107579	87592	27513
125°	93985	74921	27365
130°	80846	62190	28352
135°	68588	53375	28848
140°	57556	45431	29775
145°	48657	39973	29855
150°	41408	35434	29935
155°	36259	31719	29124
160°	32656	28903	28339
165°	29943	27205	27144
170°	27817	25907	26026
175°	26024	25257	25139



TEST NUMBER: P508360

CATALOG NUMBER: ASYX-X-L3-X-U-W-L30-1-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°	630.4	4.1
100°-110°	2281.7	14.8
110°-120°	3075.8	20.0
120°-130°	2927.5	19.0
130°-140°	2439.1	15.8
140°-150°	1847.8	12.0
150°-160°	1257.5	8.2
160°-170°	714.5	4.6
170°-180°	227.3	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°	5987.8	38.9
90°-150°	13202.1	85.7
90°-180°	15401.0	100.0
0°-180°	15401.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	290	945	322	322	410	515
105°	2348	4795	1939	857	1016	2548
115°	4506	4904	3905	1240	1163	4345
125°	5008	4484	3992	1666	1458	4470
135°	4506	3861	3506	2114	1895	3491
145°	3703	3293	3042	2403	2272	2342
155°	3053	2895	2671	2490	2452	1426
165°	2687	2605	2441	2425	2436	767
175°	2408	2376	2338	2332	2327	235
180°	2327	2327	2327	2327	2327	



TEST NUMBER: P508360

CATALOG NUMBER: ASYX-X-L3-X-U-W-L30-1-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°	43.7	43.7	43.7	49.2	54.6	60.1	60.1	76.5	98.3	103.8	120.2
95°	289.5	333.1	497.0	573.5	578.9	595.3	595.3	753.7	939.4	983.1	1026.8
97.5°	775.5	830.1	1004.9	1141.4	1338.1	1392.7	1458.2	1589.3	1791.4	1911.5	1971.6
100°	1572.9	1583.8	1676.7	1802.3	2015.3	2135.4	2282.9	2643.3	2823.6	2823.6	2758.0
102.5°	1993.4	2004.4	2086.3	2206.4	2457.7	2637.9	2807.2	3244.1	3610.0	3746.6	3801.2
105°	2348.4	2386.7	2474.0	2643.3	2949.2	3151.3	3309.6	3806.6	4232.6	4467.5	4647.7
107.5°	2801.7	2861.8	3009.3	3205.9	3571.8	3806.6	4008.7	4412.9	4784.2	5019.1	5013.6
110°	3457.1	3489.9	3642.8	3899.5	4216.2	4401.9	4527.5	4811.5	5062.8	5084.6	5095.5
112.5°	3986.9	4107.0	4227.2	4407.4	4653.2	4740.5	4800.6	4975.4	5101.0	5122.8	5084.6
115°	4505.7	4549.4	4609.5	4729.6	4844.3	4931.7	4942.6	5035.5	5062.8	5111.9	5024.5
117.5°	4827.9	4849.8	4855.2	4898.9	4959.0	5008.2	4997.2	5024.5	5057.3	4991.8	4948.1
120°	4997.2	5019.1	4980.8	4997.2	5013.6	5024.5	5002.7	5013.6	4953.5	4904.4	4855.2
122.5°	5062.8	5057.3	5019.1	5019.1	4997.2	4991.8	4948.1	4909.9	4866.2	4800.6	4740.5
125°	5008.2	5030.0	4980.8	4942.6	4893.5	4975.4	4866.2	4827.9	4751.5	4729.6	4614.9
127.5°	4937.2	4980.8	4898.9	4860.7	4811.5	4795.2	4729.6	4675.0	4620.4	4560.3	4483.9
130°	4827.9	4844.3	4767.9	4729.6	4680.5	4631.3	4620.4	4500.2	4462.0	4423.8	4320.0
132.5°	4718.7	4691.4	4614.9	4565.8	4505.7	4478.4	4451.1	4347.3	4292.7	4210.8	4156.2
135°	4505.7	4511.2	4440.2	4385.6	4303.6	4303.6	4254.5	4178.0	4107.0	4036.0	3965.0
137.5°	4303.6	4341.9	4238.1	4188.9	4145.2	4112.5	4046.9	3975.9	3899.5	3872.2	3817.6
140°	4096.1	4101.6	4019.6	3975.9	3943.2	3883.1	3844.9	3779.3	3752.0	3702.9	3626.4
142.5°	3915.9	3894.0	3828.5	3779.3	3746.6	3702.9	3681.0	3615.5	3571.8	3528.1	3500.8
145°	3702.9	3697.4	3620.9	3588.2	3560.9	3544.5	3506.3	3457.1	3435.3	3397.0	3397.0
147.5°	3522.6	3495.3	3451.6	3413.4	3380.6	3364.3	3364.3	3276.9	3293.3	3287.8	3238.6
150°	3331.5	3326.0	3266.0	3249.6	3222.3	3233.2	3222.3	3184.0	3184.0	3162.2	3129.4
152.5°	3178.6	3178.6	3129.4	3118.5	3107.6	3102.1	3080.3	3063.9	3063.9	3058.4	3020.2
155°	3053.0	3053.0	3014.7	3009.3	2992.9	2987.4	2976.5	2960.1	2949.2	2938.3	2905.5
157.5°	2949.2	2943.7	2900.0	2905.5	2889.1	2889.1	2883.6	2850.9	2861.8	2856.3	2834.5
160°	2850.9	2845.4	2801.7	2818.1	2807.2	2807.2	2807.2	2785.3	2774.4	2774.4	2725.3
162.5°	2763.5	2774.4	2730.7	2725.3	2730.7	2730.7	2708.9	2692.5	2708.9	2725.3	2676.1
165°	2687.0	2676.1	2659.7	2654.3	2643.3	2632.4	2643.3	2632.4	2621.5	2643.3	2627.0
167.5°	2610.6	2621.5	2588.7	2577.8	2577.8	2599.7	2583.3	2561.4	2572.3	2566.9	2534.1
170°	2545.0	2556.0	2512.3	2512.3	2512.3	2512.3	2495.9	2479.5	2506.8	2517.7	2479.5
172.5°	2479.5	2495.9	2457.7	2452.2	2446.7	2457.7	2446.7	2430.3	2463.1	2446.7	2430.3
175°	2408.5	2435.8	2397.6	2392.1	2403.0	2403.0	2392.1	2381.2	2403.0	2392.1	2381.2
177.5°	2375.7	2375.7	2337.5	2343.0	2343.0	2337.5	2353.9	2348.4	2353.9	2353.9	2375.7
180°	2326.6	2326.6	2326.6	2326.6	2326.6	2326.6	2326.6	2326.6	2326.6	2326.6	2326.6



TEST NUMBER: P508360

CATALOG NUMBER: ASYX-X-L3-X-U-W-L30-1-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°	125.6	147.5	158.4	87.4	87.4	98.3	92.8	81.9	71.0	65.5	65.5
95°	944.8	895.7	923.0	830.1	720.9	633.5	628.1	633.5	436.9	327.7	322.2
97.5°	2031.7	2009.8	1840.5	1578.4	1501.9	1507.4	1414.5	1174.2	983.1	841.1	726.4
100°	2643.3	2572.3	2495.9	2550.5	2397.6	2277.4	2108.1	1895.1	1671.2	1480.1	1217.9
102.5°	3768.4	3659.2	3380.6	3074.8	2769.0	2659.7	2534.1	2293.8	2059.0	1835.0	1567.4
105°	4795.2	4609.5	4139.8	3702.9	3287.8	3162.2	2998.3	2730.7	2457.7	2233.7	1938.8
107.5°	5040.9	4904.4	4642.2	4347.3	3986.9	3779.3	3626.4	3337.0	3080.3	2774.4	2435.8
110°	5062.8	4926.2	4762.4	4560.3	4385.6	4265.4	4167.1	3948.6	3762.9	3495.3	3151.3
112.5°	5002.7	4877.1	4756.9	4642.2	4505.7	4434.7	4347.3	4270.9	4161.6	3986.9	3664.6
115°	4904.4	4795.2	4685.9	4587.6	4522.1	4489.3	4445.6	4385.6	4325.5	4194.4	3904.9
117.5°	4811.5	4685.9	4587.6	4554.9	4494.8	4445.6	4440.2	4429.2	4391.0	4325.5	4046.9
120°	4718.7	4620.4	4522.1	4451.1	4429.2	4423.8	4423.8	4391.0	4401.9	4347.3	4068.8
122.5°	4571.2	4494.8	4412.9	4380.1	4287.2	4309.1	4320.0	4298.2	4341.9	4303.6	4041.5
125°	4483.9	4407.4	4303.6	4254.5	4238.1	4216.2	4238.1	4199.9	4221.7	4194.4	3992.3
127.5°	4336.4	4238.1	4183.5	4145.2	4134.3	4057.9	4096.1	4101.6	4107.0	4063.3	3883.1
130°	4178.0	4123.4	3997.8	4014.2	4014.2	3986.9	3992.3	3970.5	3959.6	3921.3	3713.8
132.5°	4063.3	3992.3	3910.4	3888.6	3866.7	3861.3	3861.3	3823.0	3823.0	3773.9	3637.3
135°	3861.3	3812.1	3779.3	3757.5	3752.0	3730.2	3730.2	3691.9	3686.5	3642.8	3506.3
137.5°	3719.3	3670.1	3642.8	3626.4	3610.0	3571.8	3593.6	3560.9	3528.1	3517.2	3386.1
140°	3577.3	3539.0	3517.2	3489.9	3484.4	3462.6	3462.6	3424.3	3413.4	3364.3	3233.2
142.5°	3457.1	3435.3	3391.6	3380.6	3342.4	3347.9	3320.6	3326.0	3282.3	3227.7	3124.0
145°	3293.3	3298.7	3276.9	3255.0	3249.6	3216.8	3222.3	3189.5	3162.2	3124.0	3042.0
147.5°	3205.9	3205.9	3173.1	3145.8	3124.0	3118.5	3091.2	3096.6	3053.0	2998.3	2943.7
150°	3091.2	3080.3	3047.5	3031.1	3014.7	3014.7	2987.4	2971.0	2938.3	2921.9	2850.9
152.5°	3009.3	2982.0	2965.6	2932.8	2932.8	2905.5	2883.6	2872.7	2845.4	2812.7	2758.0
155°	2894.6	2883.6	2861.8	2856.3	2834.5	2812.7	2774.4	2769.0	2752.6	2719.8	2670.7
157.5°	2801.7	2818.1	2785.3	2769.0	2736.2	2730.7	2692.5	2698.0	2665.2	2643.3	2599.7
160°	2758.0	2730.7	2698.0	2692.5	2681.6	2637.9	2632.4	2616.0	2594.2	2577.8	2523.2
162.5°	2659.7	2654.3	2637.9	2627.0	2588.7	2588.7	2523.2	2550.5	2534.1	2517.7	2490.4
165°	2605.1	2610.6	2572.3	2561.4	2550.5	2528.7	2512.3	2495.9	2479.5	2468.6	2441.3
167.5°	2534.1	2523.2	2512.3	2490.4	2495.9	2479.5	2463.1	2452.2	2441.3	2430.3	2408.5
170°	2474.0	2468.6	2457.7	2441.3	2446.7	2430.3	2430.3	2408.5	2403.0	2397.6	2370.3
172.5°	2424.9	2424.9	2414.0	2414.0	2408.5	2392.1	2381.2	2370.3	2370.3	2359.3	2353.9
175°	2375.7	2381.2	2375.7	2370.3	2370.3	2359.3	2359.3	2364.8	2353.9	2353.9	2337.5
177.5°	2337.5	2337.5	2337.5	2337.5	2337.5	2337.5	2337.5	2332.0	2337.5	2332.0	2315.7
180°	2326.6	2326.6	2326.6	2326.6	2326.6	2326.6	2326.6	2326.6	2326.6	2326.6	2326.6



TEST NUMBER: P508360

CATALOG NUMBER: ASYX-X-L3-X-U-W-L30-1-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°	71.0	76.5	81.9	87.4	103.8	98.3	114.7	120.2	131.1	152.9	158.4
95°	289.5	289.5	284.0	284.0	273.1	273.1	267.6	262.1	289.5	322.2	365.9
97.5°	595.3	507.9	464.2	447.8	442.4	436.9	426.0	409.6	420.5	447.8	502.5
100°	1004.9	830.1	688.1	606.2	589.8	562.5	551.6	546.1	546.1	600.8	688.1
102.5°	1299.8	1043.1	857.4	737.3	704.5	677.2	660.8	660.8	671.8	737.3	835.6
105°	1643.9	1316.2	1032.2	873.8	846.5	808.3	781.0	786.4	797.4	857.4	944.8
107.5°	2059.0	1665.7	1327.1	1081.4	1021.3	966.7	923.0	923.0	928.4	966.7	1032.2
110°	2681.6	2173.7	1665.7	1299.8	1201.5	1141.4	1037.7	1037.7	1032.2	1059.5	1103.2
112.5°	3156.7	2566.9	1988.0	1518.3	1381.7	1283.4	1174.2	1141.4	1141.4	1146.9	1174.2
115°	3440.7	2829.0	2211.9	1720.4	1540.1	1420.0	1283.4	1245.2	1228.8	1239.8	1228.8
117.5°	3604.6	2987.4	2403.0	1867.8	1698.5	1562.0	1392.7	1343.5	1316.2	1338.1	1332.6
120°	3686.5	3129.4	2556.0	2020.7	1846.0	1687.6	1507.4	1458.2	1436.4	1436.4	1441.8
122.5°	3697.4	3205.9	2643.3	2157.3	1982.5	1829.6	1643.9	1572.9	1551.1	1556.5	1556.5
125°	3659.2	3195.0	2725.3	2266.5	2097.2	1944.3	1753.1	1693.1	1643.9	1665.7	1671.2
127.5°	3599.1	3167.6	2774.4	2353.9	2201.0	2064.4	1889.7	1818.7	1775.0	1785.9	1780.4
130°	3511.7	3134.9	2818.1	2430.3	2299.3	2162.7	2009.8	1944.3	1884.2	1889.7	1895.1
132.5°	3424.3	3124.0	2840.0	2490.4	2381.2	2266.5	2113.6	2048.0	1993.4	1998.9	1998.9
135°	3331.5	3096.6	2812.7	2528.7	2474.0	2353.9	2228.3	2157.3	2113.6	2113.6	2102.7
137.5°	3233.2	3031.1	2834.5	2605.1	2528.7	2430.3	2304.7	2250.1	2206.4	2201.0	2195.5
140°	3145.8	2960.1	2807.2	2621.5	2566.9	2490.4	2386.7	2343.0	2282.9	2272.0	2304.7
142.5°	3058.4	2927.3	2834.5	2659.7	2605.1	2539.6	2463.1	2403.0	2359.3	2348.4	2343.0
145°	2971.0	2894.6	2790.8	2648.8	2627.0	2561.4	2479.5	2463.1	2414.0	2403.0	2403.0
147.5°	2883.6	2818.1	2741.7	2643.3	2643.3	2588.7	2550.5	2501.3	2463.1	2441.3	2441.3
150°	2807.2	2752.6	2714.3	2637.9	2632.4	2588.7	2556.0	2534.1	2490.4	2479.5	2474.0
152.5°	2736.2	2687.0	2654.3	2605.1	2599.7	2539.6	2550.5	2528.7	2485.0	2474.0	2474.0
155°	2648.8	2643.3	2605.1	2556.0	2577.8	2545.0	2517.7	2545.0	2479.5	2490.4	2490.4
157.5°	2588.7	2583.3	2577.8	2528.7	2534.1	2517.7	2501.3	2523.2	2468.6	2474.0	2474.0
160°	2523.2	2512.3	2512.3	2468.6	2501.3	2468.6	2474.0	2485.0	2452.2	2457.7	2474.0
162.5°	2490.4	2468.6	2468.6	2452.2	2463.1	2452.2	2424.9	2463.1	2457.7	2446.7	2452.2
165°	2435.8	2430.3	2441.3	2408.5	2435.8	2403.0	2414.0	2430.3	2419.4	2424.9	2430.3
167.5°	2403.0	2397.6	2403.0	2386.7	2403.0	2392.1	2386.7	2408.5	2397.6	2403.0	2408.5
170°	2375.7	2375.7	2381.2	2364.8	2381.2	2364.8	2381.2	2381.2	2375.7	2375.7	2386.7
172.5°	2364.8	2348.4	2364.8	2337.5	2364.8	2332.0	2343.0	2359.3	2353.9	2348.4	2348.4
175°	2343.0	2337.5	2353.9	2326.6	2343.0	2326.6	2326.6	2343.0	2337.5	2332.0	2353.9
177.5°	2343.0	2326.6	2343.0	2315.7	2332.0	2321.1	2321.1	2337.5	2326.6	2326.6	2343.0
180°	2326.6	2326.6	2326.6	2326.6	2326.6	2326.6	2326.6	2326.6	2326.6	2326.6	2326.6



TEST NUMBER: P508360

CATALOG NUMBER: ASYX-X-L3-X-U-W-L30-1-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°	158.4	185.7	191.2	207.5	202.1	169.3	147.5	120.2	103.8
95°	415.1	458.8	502.5	497.0	513.4	480.6	447.8	431.5	409.6
97.5°	557.1	628.1	671.8	671.8	677.2	655.4	644.5	655.4	628.1
100°	786.4	835.6	852.0	846.5	830.1	791.9	770.1	759.1	742.8
102.5°	923.0	977.6	994.0	983.1	972.1	955.8	933.9	923.0	917.5
105°	1015.8	1065.0	1086.8	1081.4	1075.9	1048.6	1004.9	1021.3	1015.8
107.5°	1103.2	1136.0	1157.8	1141.4	1136.0	1119.6	1092.3	1108.7	1086.8
110°	1157.8	1185.1	1190.6	1190.6	1179.7	1163.3	1141.4	1146.9	1130.5
112.5°	1201.5	1217.9	1217.9	1217.9	1207.0	1185.1	1174.2	1163.3	1163.3
115°	1250.7	1239.8	1245.2	1245.2	1234.3	1201.5	1185.1	1174.2	1163.3
117.5°	1338.1	1321.7	1305.3	1305.3	1278.0	1256.1	1239.8	1223.4	1207.0
120°	1420.0	1409.1	1398.1	1381.7	1365.4	1338.1	1310.7	1288.9	1278.0
122.5°	1529.2	1501.9	1485.5	1496.4	1463.7	1436.4	1403.6	1381.7	1354.4
125°	1649.4	1627.5	1600.2	1589.3	1562.0	1540.1	1512.8	1491.0	1458.2
127.5°	1753.1	1720.4	1709.4	1704.0	1671.2	1643.9	1600.2	1583.8	1583.8
130°	1873.3	1835.0	1840.5	1813.2	1785.9	1742.2	1698.5	1698.5	1693.1
132.5°	1988.0	1944.3	1938.8	1927.9	1895.1	1862.4	1835.0	1829.6	1807.7
135°	2080.8	2048.0	2042.6	2031.7	2004.4	1971.6	1927.9	1938.8	1895.1
137.5°	2162.7	2146.4	2140.9	2119.0	2091.7	2086.3	2037.1	2031.7	2004.4
140°	2255.6	2222.8	2244.7	2217.4	2184.6	2173.7	2108.1	2119.0	2119.0
142.5°	2321.1	2304.7	2299.3	2288.4	2266.5	2244.7	2228.3	2206.4	2217.4
145°	2386.7	2375.7	2364.8	2364.8	2332.0	2321.1	2288.4	2288.4	2272.0
147.5°	2441.3	2419.4	2419.4	2408.5	2392.1	2381.2	2348.4	2364.8	2337.5
150°	2441.3	2452.2	2441.3	2441.3	2446.7	2441.3	2414.0	2403.0	2408.5
152.5°	2485.0	2468.6	2457.7	2479.5	2452.2	2468.6	2430.3	2441.3	2430.3
155°	2463.1	2474.0	2479.5	2468.6	2468.6	2468.6	2452.2	2479.5	2452.2
157.5°	2485.0	2474.0	2479.5	2474.0	2463.1	2479.5	2463.1	2485.0	2468.6
160°	2474.0	2463.1	2474.0	2468.6	2457.7	2479.5	2479.5	2495.9	2474.0
162.5°	2435.8	2446.7	2474.0	2457.7	2457.7	2495.9	2435.8	2490.4	2457.7
165°	2424.9	2430.3	2441.3	2452.2	2430.3	2446.7	2446.7	2452.2	2435.8
167.5°	2414.0	2392.1	2414.0	2414.0	2419.4	2419.4	2419.4	2430.3	2408.5
170°	2392.1	2348.4	2392.1	2392.1	2381.2	2381.2	2375.7	2408.5	2381.2
172.5°	2353.9	2343.0	2359.3	2359.3	2370.3	2364.8	2364.8	2370.3	2353.9
175°	2332.0	2337.5	2359.3	2343.0	2337.5	2343.0	2326.6	2343.0	2326.6
177.5°	2321.1	2321.1	2326.6	2332.0	2343.0	2332.0	2315.7	2332.0	2315.7
180°	2326.6	2326.6	2326.6	2326.6	2326.6	2326.6	2326.6	2326.6	2326.6

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