

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: P508444

Luminaire Tested: **ASYX-X-S3-X-U-F-L30-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508444
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-S3-X-U-F-L30-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(3) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

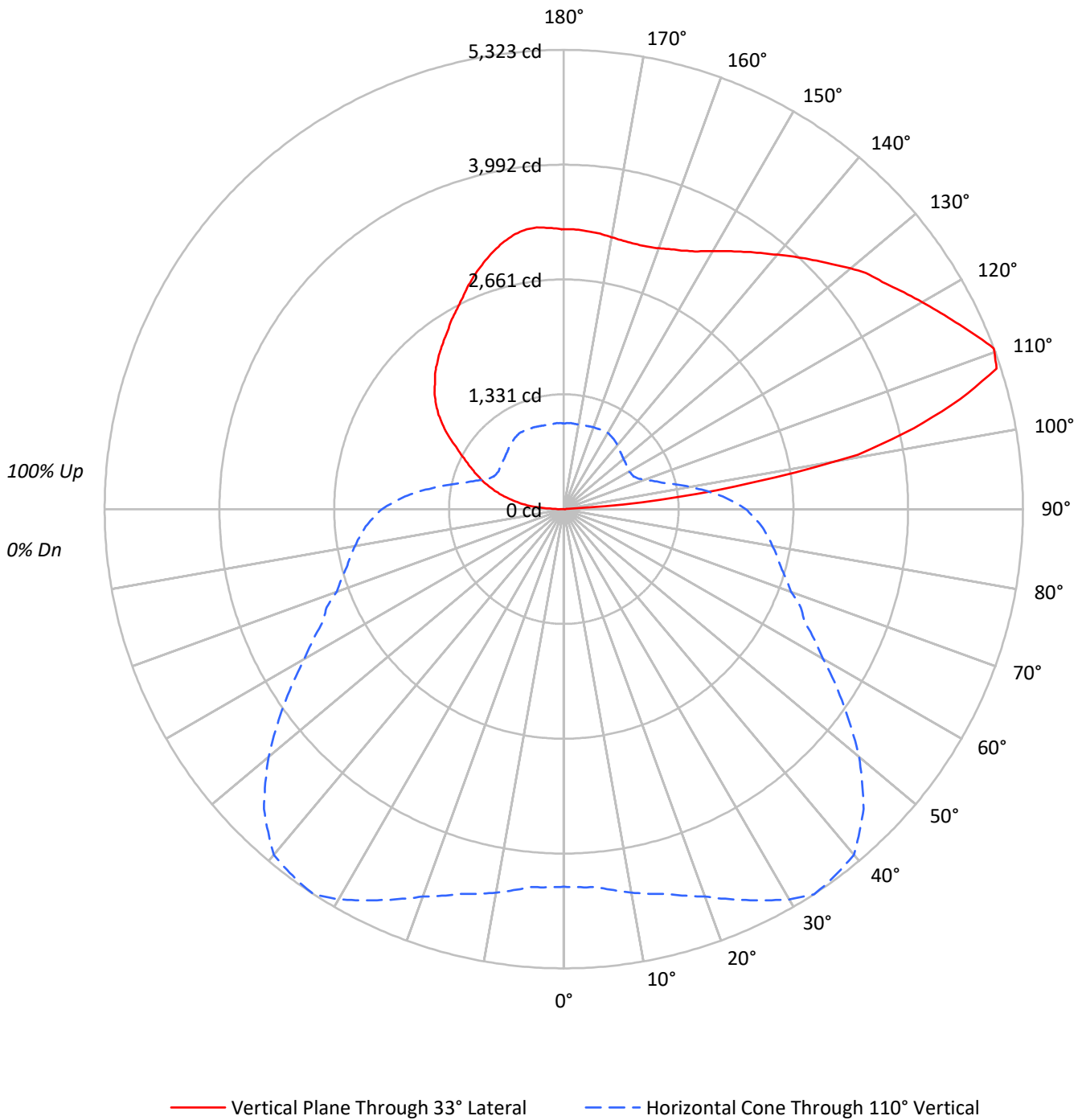
Lumens per Lamp: N/A
Luminaire Lumens: 15402.2 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
N/A
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
CIE Type: Indirect

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: P508444
CATALOG NUMBER: ASYX-X-S3-X-U-F-L30-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot





TEST NUMBER: P508444

CATALOG NUMBER: ASYX-X-S3-X-U-F-L30-1-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°	74859	28718	62673
100°	190035	61160	51548
105°	184653	67706	43962
110°	183647	88498	41698
115°	160112	100340	38232
120°	133056	98618	36867
125°	113344	91917	37560
130°	96890	84264	39654
135°	83358	77456	40122
140°	72686	71497	40007
145°	63899	65936	40285
150°	56060	61579	40293
155°	51477	57754	40846
160°	47629	53845	42221
165°	46022	50969	44294
170°	45833	48682	46140
175°	46908	47136	46526



TEST NUMBER: P508444

CATALOG NUMBER: ASYX-X-S3-X-U-F-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°	559.1	3.6
100°-110°	2062.0	13.4
110°-120°	2797.9	18.2
120°-130°	2785.5	18.1
130°-140°	2479.7	16.1
140°-150°	2015.1	13.1
150°-160°	1479.6	9.6
160°-170°	913.1	5.9
170°-180°	310.2	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°	5419.0	35.2
90°-150°	12699.3	82.5
90°-180°	15402.0	100.0
0°-180°	15402.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	455	671	174	264	381	753
105°	3330	4472	1221	719	793	3544
115°	4715	4852	2955	1147	1126	4610
125°	4530	4530	3674	1628	1501	4049
135°	4107	4123	3816	2056	1977	3199
145°	3647	3658	3763	2437	2299	2294
155°	3251	3362	3647	2860	2579	1500
165°	3097	3208	3430	3177	2981	885
175°	3256	3224	3272	3272	3230	306
180°	3245	3245	3245	3245	3245	



TEST NUMBER: P508444

CATALOG NUMBER: ASYX-X-S3-X-U-F-L30-1-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°	26.4	26.4	26.4	31.7	37.0	37.0	47.6	52.9	47.6	68.7	79.3
95°	454.6	523.3	750.6	893.3	882.7	835.1	888.0	1041.3	1120.6	1020.1	866.8
97.5°	1141.7	1184.0	1654.4	1876.4	2072.0	2167.1	2251.7	2183.0	2220.0	2198.8	2003.3
100°	2299.3	2436.7	2600.5	2827.8	3108.0	3308.8	3462.1	3583.7	3467.4	3282.4	2743.3
102.5°	2944.1	2991.7	3102.7	3219.0	3520.2	3668.2	3821.5	4085.8	4165.1	4128.1	3837.4
105°	3330.0	3356.4	3462.1	3636.5	3869.1	4033.0	4223.2	4566.8	4767.7	4788.8	4809.9
107.5°	3816.2	3874.4	4001.2	4112.2	4387.1	4577.4	4746.5	5100.7	5275.1	5285.7	5211.7
110°	4376.5	4397.7	4513.9	4619.7	4778.2	4889.2	5000.2	5222.2	5322.7	5306.8	5232.8
112.5°	4677.8	4704.2	4746.5	4783.5	4857.5	4905.1	4973.8	5116.5	5174.7	5190.5	5116.5
115°	4714.8	4714.8	4746.5	4751.8	4836.4	4836.4	4868.1	5005.5	5031.9	5053.1	5010.8
117.5°	4683.1	4693.7	4714.8	4704.2	4741.2	4794.1	4783.5	4868.1	4899.8	4883.9	4899.8
120°	4635.5	4624.9	4667.2	4646.1	4672.5	4704.2	4683.1	4746.5	4772.9	4762.4	4815.2
122.5°	4587.9	4587.9	4603.8	4598.5	4587.9	4577.4	4582.7	4624.9	4651.4	4646.1	4677.8
125°	4529.8	4524.5	4519.2	4498.1	4524.5	4508.7	4482.2	4513.9	4535.1	4524.5	4556.2
127.5°	4434.7	4439.9	4429.4	4418.8	4387.1	4381.8	4408.2	4392.4	4445.2	4413.5	4445.2
130°	4339.5	4339.5	4328.9	4307.8	4297.2	4276.1	4270.8	4281.4	4313.1	4323.7	4276.1
132.5°	4265.5	4228.5	4202.1	4186.2	4186.2	4165.1	4154.5	4165.1	4181.0	4207.4	4212.7
135°	4107.0	4085.8	4085.8	4064.7	4096.4	4048.8	4038.2	4054.1	4059.4	4059.4	4091.1
137.5°	4017.1	3964.2	3943.1	3937.8	3932.5	3916.7	3916.7	3937.8	3943.1	3937.8	3964.2
140°	3879.7	3821.5	3842.7	3816.2	3821.5	3795.1	3805.7	3805.7	3826.8	3826.8	3853.2
142.5°	3800.4	3715.8	3705.2	3689.4	3694.7	3684.1	3737.0	3700.0	3721.1	3758.1	3742.2
145°	3647.1	3578.4	3594.2	3578.4	3583.7	3573.1	3599.5	3594.2	3620.7	3615.4	3641.8
147.5°	3483.2	3478.0	3483.2	3472.7	3483.2	3472.7	3504.4	3499.1	3525.5	3541.4	3546.7
150°	3382.8	3361.7	3367.0	3377.5	3367.0	3388.1	3388.1	3409.2	3435.7	3441.0	3462.1
152.5°	3277.1	3271.8	3298.2	3282.4	3293.0	3293.0	3308.8	3314.1	3351.1	3356.4	3409.2
155°	3250.7	3203.1	3203.1	3197.8	3224.2	3224.2	3245.4	3277.1	3293.0	3319.4	3324.7
157.5°	3155.5	3150.2	3150.2	3171.4	3145.0	3176.7	3224.2	3208.4	3250.7	3256.0	3277.1
160°	3118.5	3102.7	3113.2	3123.8	3123.8	3150.2	3187.2	3182.0	3208.4	3240.1	3245.4
162.5°	3139.7	3086.8	3092.1	3118.5	3108.0	3145.0	3150.2	3160.8	3187.2	3197.8	3229.5
165°	3097.4	3081.5	3071.0	3081.5	3113.2	3129.1	3145.0	3155.5	3182.0	3187.2	3203.1
167.5°	3113.2	3108.0	3108.0	3118.5	3139.7	3139.7	3166.1	3160.8	3187.2	3187.2	3197.8
170°	3145.0	3129.1	3139.7	3160.8	3123.8	3182.0	3176.7	3160.8	3203.1	3203.1	3219.0
172.5°	3187.2	3171.4	3176.7	3176.7	3176.7	3208.4	3213.7	3219.0	3224.2	3219.0	3219.0
175°	3256.0	3213.7	3208.4	3208.4	3219.0	3219.0	3229.5	3203.1	3234.8	3234.8	3229.5
177.5°	3240.1	3224.2	3250.7	3224.2	3213.7	3234.8	3250.7	3229.5	3245.4	3229.5	3245.4
180°	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4



TEST NUMBER: P508444

CATALOG NUMBER: ASYX-X-S3-X-U-F-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°	68.7	68.7	68.7	63.4	58.1	58.1	58.1	58.1	52.9	47.6	47.6
95°	671.3	533.9	486.3	401.7	338.3	311.9	269.6	269.6	200.9	163.9	174.4
97.5°	1686.1	1310.8	1041.3	787.6	750.6	703.0	697.7	592.0	523.3	475.7	412.3
100°	2188.3	1797.1	1559.3	1427.1	1252.7	1173.4	1115.3	1004.3	935.6	840.4	740.0
102.5°	3250.7	2701.0	2235.8	1844.7	1580.4	1469.4	1395.4	1279.1	1194.6	1099.4	972.6
105°	4471.7	3700.0	2923.0	2336.3	1982.1	1839.4	1712.6	1596.3	1485.3	1337.3	1221.0
107.5°	4799.4	4239.1	3652.4	2997.0	2505.4	2362.7	2214.7	2019.1	1871.1	1744.3	1543.4
110°	4915.7	4466.4	3959.0	3472.7	3076.2	2975.8	2801.4	2605.8	2457.8	2304.5	2109.0
112.5°	4868.1	4587.9	4181.0	3747.5	3425.1	3324.7	3197.8	3076.2	2997.0	2880.7	2621.7
115°	4852.2	4624.9	4339.5	3953.7	3663.0	3552.0	3451.5	3340.5	3319.4	3240.1	2954.7
117.5°	4783.5	4630.2	4413.5	4101.7	3842.7	3768.7	3668.2	3578.4	3567.8	3488.5	3240.1
120°	4735.9	4609.1	4424.1	4218.0	3996.0	3916.7	3832.1	3763.4	3731.7	3673.5	3435.7
122.5°	4624.9	4577.4	4434.7	4260.2	4059.4	4022.4	3943.1	3826.8	3879.7	3816.2	3589.0
125°	4529.8	4503.4	4466.4	4255.0	4112.2	4064.7	4006.5	3937.8	3953.7	3911.4	3673.5
127.5°	4429.4	4424.1	4397.7	4270.8	4138.7	4117.5	4048.8	3996.0	3985.4	3943.1	3731.7
130°	4350.1	4344.8	4307.8	4223.2	4138.7	4133.4	4064.7	4022.4	4017.1	3980.1	3774.0
132.5°	4233.8	4233.8	4255.0	4170.4	4117.5	4101.7	4070.0	4017.1	4033.0	3953.7	3795.1
135°	4122.8	4128.1	4144.0	4101.7	4133.4	4075.2	4043.5	3974.8	4006.5	3974.8	3816.2
137.5°	3996.0	4011.8	4043.5	4027.7	4043.5	4048.8	4006.5	3990.7	3990.7	3959.0	3811.0
140°	3842.7	3906.1	3964.2	3959.0	3990.7	3985.4	3969.5	3895.5	3964.2	3943.1	3816.2
142.5°	3774.0	3811.0	3879.7	3863.8	3932.5	3932.5	3922.0	3916.7	3932.5	3895.5	3795.1
145°	3657.7	3715.8	3768.7	3800.4	3842.7	3885.0	3869.1	3879.7	3885.0	3885.0	3763.4
147.5°	3583.7	3647.1	3715.8	3726.4	3800.4	3811.0	3816.2	3832.1	3863.8	3821.5	3774.0
150°	3504.4	3546.7	3626.0	3657.7	3737.0	3752.8	3747.5	3768.7	3821.5	3789.8	3715.8
152.5°	3382.8	3472.7	3541.4	3589.0	3647.1	3684.1	3689.4	3689.4	3737.0	3737.0	3694.7
155°	3361.7	3409.2	3472.7	3520.2	3583.7	3620.7	3626.0	3626.0	3673.5	3657.7	3647.1
157.5°	3314.1	3377.5	3430.4	3446.2	3525.5	3557.2	3557.2	3567.8	3610.1	3620.7	3583.7
160°	3282.4	3314.1	3377.5	3425.1	3467.4	3504.4	3509.7	3520.2	3546.7	3541.4	3525.5
162.5°	3234.8	3282.4	3340.5	3367.0	3414.5	3451.5	3446.2	3446.2	3493.8	3504.4	3483.2
165°	3208.4	3261.2	3330.0	3345.8	3377.5	3398.7	3393.4	3409.2	3451.5	3441.0	3430.4
167.5°	3219.0	3245.4	3303.5	3298.2	3335.2	3351.1	3351.1	3340.5	3367.0	3330.0	3361.7
170°	3234.8	3234.8	3266.5	3277.1	3308.8	3324.7	3308.8	3308.8	3324.7	3335.2	3340.5
172.5°	3240.1	3234.8	3261.2	3256.0	3266.5	3293.0	3277.1	3256.0	3287.7	3308.8	3282.4
175°	3224.2	3229.5	3271.8	3261.2	3245.4	3271.8	3245.4	3240.1	3287.7	3282.4	3271.8
177.5°	3208.4	3208.4	3234.8	3213.7	3250.7	3250.7	3224.2	3224.2	3277.1	3240.1	3229.5
180°	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4



TEST NUMBER: P508444

CATALOG NUMBER: ASYX-X-S3-X-U-F-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°	52.9	58.1	63.4	74.0	79.3	84.6	95.1	105.7	121.6	121.6	142.7
95°	169.1	174.4	174.4	185.0	190.3	190.3	195.6	216.7	237.9	264.3	311.9
97.5°	359.4	317.1	306.6	306.6	311.9	311.9	317.1	327.7	343.6	375.3	422.9
100°	634.3	539.1	470.4	433.4	422.9	417.6	422.9	422.9	449.3	491.6	544.4
102.5°	829.8	703.0	586.7	533.9	512.7	518.0	512.7	523.3	560.3	597.3	655.4
105°	1046.6	882.7	734.7	655.4	623.7	618.4	618.4	629.0	671.3	718.8	761.1
107.5°	1342.6	1136.4	919.7	803.4	755.8	745.3	745.3	761.1	787.6	819.3	866.8
110°	1818.3	1480.0	1178.7	993.7	930.3	893.3	872.1	888.0	903.8	930.3	967.3
112.5°	2262.3	1844.7	1448.3	1168.1	1083.6	1025.4	993.7	993.7	1014.8	1036.0	1062.4
115°	2568.8	2103.7	1675.6	1347.8	1226.3	1173.4	1104.7	1110.0	1125.8	1147.0	1162.8
117.5°	2843.7	2346.8	1865.8	1517.0	1379.6	1295.0	1226.3	1210.4	1242.1	1268.6	1279.1
120°	3039.3	2558.3	2056.1	1691.4	1532.8	1437.7	1342.6	1326.7	1358.4	1363.7	1416.6
122.5°	3203.1	2711.5	2220.0	1844.7	1675.6	1596.3	1480.0	1458.8	1480.0	1517.0	1559.3
125°	3308.8	2849.0	2368.0	1987.4	1828.8	1723.1	1601.6	1585.7	1601.6	1628.0	1675.6
127.5°	3393.4	2960.0	2510.7	2135.4	1950.4	1865.8	1744.3	1712.6	1733.7	1744.3	1797.1
130°	3456.8	3086.8	2642.8	2278.1	2114.3	2029.7	1865.8	1834.1	1844.7	1871.1	1897.5
132.5°	3520.2	3166.1	2775.0	2426.1	2267.5	2172.4	2013.8	1945.1	1950.4	1971.5	1998.0
135°	3562.5	3250.7	2912.4	2574.1	2399.7	2325.7	2156.5	2087.8	2061.4	2056.1	2087.8
137.5°	3604.8	3330.0	3018.1	2711.5	2563.5	2479.0	2278.1	2198.8	2172.4	2167.1	2177.7
140°	3641.8	3398.7	3113.2	2859.5	2711.5	2611.1	2426.1	2325.7	2283.4	2262.3	2272.8
142.5°	3657.7	3456.8	3213.7	3018.1	2838.4	2722.1	2568.8	2468.4	2378.5	2352.1	2331.0
145°	3668.2	3546.7	3308.8	3118.5	2981.1	2912.4	2727.4	2595.3	2489.5	2436.7	2426.1
147.5°	3668.2	3541.4	3372.2	3203.1	3086.8	3012.8	2812.0	2727.4	2642.8	2553.0	2510.7
150°	3657.7	3599.5	3419.8	3287.7	3166.1	3108.0	2965.3	2806.7	2716.8	2653.4	2605.8
152.5°	3631.2	3552.0	3446.2	3330.0	3240.1	3203.1	3039.3	2938.8	2843.7	2748.5	2711.5
155°	3604.8	3541.4	3462.1	3367.0	3293.0	3245.4	3129.1	3028.7	2960.0	2859.5	2822.5
157.5°	3573.1	3530.8	3462.1	3409.2	3324.7	3293.0	3176.7	3108.0	3049.8	2949.4	2901.8
160°	3525.5	3499.1	3456.8	3382.8	3345.8	3319.4	3224.2	3171.4	3113.2	3039.3	3002.3
162.5°	3478.0	3483.2	3430.4	3414.5	3356.4	3335.2	3271.8	3213.7	3155.5	3113.2	3081.5
165°	3441.0	3462.1	3409.2	3356.4	3356.4	3345.8	3277.1	3250.7	3224.2	3176.7	3139.7
167.5°	3372.2	3398.7	3398.7	3335.2	3330.0	3345.8	3303.5	3277.1	3256.0	3219.0	3197.8
170°	3361.7	3361.7	3324.7	3330.0	3345.8	3308.8	3282.4	3277.1	3277.1	3256.0	3240.1
172.5°	3298.2	3330.0	3314.1	3303.5	3287.7	3287.7	3271.8	3277.1	3266.5	3271.8	3266.5
175°	3277.1	3282.4	3287.7	3282.4	3266.5	3266.5	3261.2	3266.5	3271.8	3271.8	3261.2
177.5°	3245.4	3261.2	3287.7	3261.2	3271.8	3250.7	3245.4	3256.0	3256.0	3261.2	3250.7
180°	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4



TEST NUMBER: P508444

CATALOG NUMBER: ASYX-X-S3-X-U-F-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°	158.6	169.1	174.4	179.7	185.0	169.1	169.1	153.3	142.7
95°	338.3	364.7	364.7	364.7	380.6	391.1	385.9	380.6	380.6
97.5°	459.9	502.1	533.9	539.1	539.1	539.1	544.4	544.4	533.9
100°	581.4	602.6	623.7	629.0	623.7	623.7	618.4	629.0	623.7
102.5°	697.7	718.8	724.1	729.4	724.1	718.8	708.3	718.8	697.7
105°	798.1	819.3	814.0	808.7	803.4	792.8	782.3	798.1	792.8
107.5°	909.1	914.4	919.7	925.0	903.8	898.6	898.6	909.1	903.8
110°	999.0	1020.1	1014.8	1009.6	1009.6	999.0	993.7	999.0	993.7
112.5°	1094.1	1104.7	1099.4	1099.4	1094.1	1078.3	1062.4	1067.7	1062.4
115°	1194.6	1199.8	1194.6	1184.0	1173.4	1162.8	1141.7	1131.1	1125.8
117.5°	1300.3	1295.0	1284.4	1279.1	1268.6	1263.3	1231.6	1215.7	1210.4
120°	1421.8	1406.0	1384.8	1379.6	1363.7	1358.4	1316.1	1289.7	1284.4
122.5°	1569.8	1543.4	1501.1	1480.0	1474.7	1458.8	1406.0	1395.4	1379.6
125°	1696.7	1686.1	1659.7	1643.8	1622.7	1575.1	1517.0	1490.6	1501.1
127.5°	1818.3	1813.0	1802.4	1781.3	1754.8	1733.7	1686.1	1643.8	1633.3
130°	1918.7	1924.0	1908.1	1892.3	1876.4	1855.3	1802.4	1776.0	1776.0
132.5°	2013.8	2019.1	2029.7	1987.4	1976.8	1955.7	1908.1	1876.4	1887.0
135°	2087.8	2098.4	2082.5	2066.7	2056.1	2035.0	1987.4	1971.5	1976.8
137.5°	2188.3	2177.7	2161.8	2151.3	2124.8	2119.5	2082.5	2056.1	2045.5
140°	2251.7	2257.0	2257.0	2230.5	2204.1	2193.5	2156.5	2130.1	2135.4
142.5°	2336.3	2315.1	2325.7	2299.3	2283.4	2267.5	2220.0	2214.7	2214.7
145°	2399.7	2389.1	2383.8	2362.7	2357.4	2325.7	2309.8	2283.4	2299.3
147.5°	2468.4	2468.4	2468.4	2420.8	2410.3	2394.4	2378.5	2357.4	2373.3
150°	2568.8	2531.8	2521.3	2494.8	2473.7	2463.1	2426.1	2415.5	2431.4
152.5°	2648.1	2605.8	2574.1	2558.3	2553.0	2537.1	2516.0	2500.1	2500.1
155°	2743.3	2685.1	2685.1	2627.0	2611.1	2600.5	2579.4	2574.1	2579.4
157.5°	2843.7	2790.8	2764.4	2732.7	2706.3	2695.7	2669.3	2658.7	2669.3
160°	2917.7	2912.4	2854.3	2838.4	2812.0	2796.1	2790.8	2764.4	2764.4
162.5°	3034.0	2960.0	2949.4	2933.5	2912.4	2891.3	2880.7	2870.1	2880.7
165°	3097.4	3076.2	3049.8	3028.7	3012.8	3007.5	2975.8	2986.4	2981.1
167.5°	3171.4	3155.5	3129.1	3113.2	3118.5	3097.4	3097.4	3071.0	3076.2
170°	3224.2	3234.8	3203.1	3187.2	3176.7	3176.7	3155.5	3155.5	3166.1
172.5°	3261.2	3277.1	3250.7	3240.1	3229.5	3240.1	3219.0	3213.7	3224.2
175°	3271.8	3293.0	3271.8	3266.5	3256.0	3287.7	3250.7	3250.7	3229.5
177.5°	3261.2	3266.5	3287.7	3256.0	3256.0	3266.5	3271.8	3229.5	3256.0
180°	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4

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