

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: P508448

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

Issue Date: 4/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P508448  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-840-3)  
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-HSS-L30-1-UNV-X-X-X-STD  
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.  
(3) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

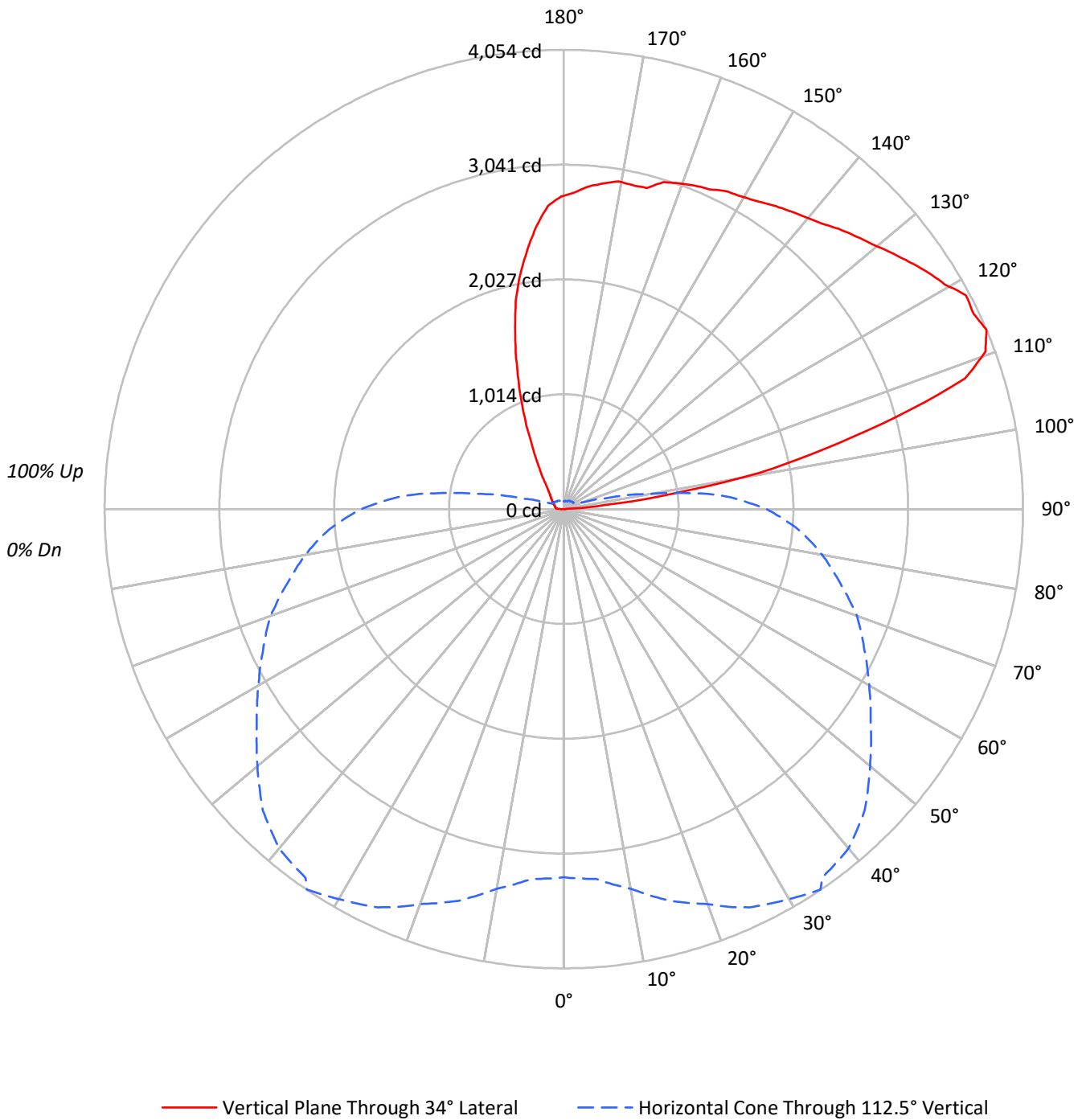
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9502.1 lumens  
Efficiency: N/A  
Efficacy: 59.3 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: P508448  
CATALOG NUMBER: ASYX-X-S3-X-U-HSS-L30-1-UNV-X-X-X-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P508448

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

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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°	873	10440	12186
100°	35382	21406	6554
105°	108446	33997	4103
110°	124430	58332	2883
115°	113442	68211	2513
120°	97099	65999	2428
125°	81603	63350	2512
130°	73643	59362	2715
135°	65227	55357	2896
140°	60308	50603	3267
145°	55195	46858	3704
150°	52293	43359	5169
155°	49133	41264	7869
160°	46903	40203	12432
165°	44922	39738	19555
170°	43367	39670	28733
175°	41654	39597	35332



TEST NUMBER: P508448

CATALOG NUMBER: ASYX-X-S3-X-U-HSS-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°	184.8	1.9
100°-110°	1158.1	12.2
110°-120°	1790.1	18.8
120°-130°	1727.5	18.2
130°-140°	1500.4	15.8
140°-150°	1236.7	13.0
150°-160°	974.5	10.3
160°-170°	676.0	7.1
170°-180°	254.1	2.7
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°	3133.0	33.0
90°-150°	7597.5	80.0
90°-180°	9502.0	100.0
0°-180°	9502.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	5	48	63	58	74	90
105°	1956	3140	613	79	74	1919
115°	3340	3811	2009	100	74	3249
125°	3261	3716	2532	132	100	2982
135°	3214	3409	2727	185	143	2499
145°	3150	3187	2674	375	211	1997
155°	3103	3060	2606	920	497	1430
165°	3023	2939	2674	1818	1316	859
175°	2891	2838	2748	2569	2452	277
180°	2759	2759	2759	2759	2759	



TEST NUMBER: P508448

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

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	34°	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°	0.0	0.0	5.3	5.3	15.9	10.6	10.6	15.9	21.1	26.4	10.6
95°	5.3	5.3	10.6	137.4	412.3	454.6	433.4	417.6	364.7	317.1	79.3
97.5°	111.0	132.1	211.4	565.6	1147.0	1321.4	1406.0	1152.3	946.1	877.4	470.4
100°	428.1	496.9	687.1	1300.3	1939.8	1982.1	1966.3	1913.4	1760.1	1659.7	1273.8
102.5°	1141.7	1189.3	1453.6	1998.0	2346.8	2420.8	2420.8	2373.3	2357.4	2325.7	2204.1
105°	1955.7	2008.6	2220.0	2500.1	2711.5	2790.8	2833.1	2938.8	3044.5	3060.4	3176.7
107.5°	2500.1	2553.0	2716.8	2928.3	3203.1	3303.5	3425.1	3594.3	3726.4	3710.5	3684.1
110°	2965.3	3023.4	3176.7	3388.1	3589.0	3710.5	3826.8	3900.8	3974.8	3900.8	3863.8
112.5°	3250.7	3277.1	3404.0	3578.4	3710.5	3800.4	3879.7	3974.8	4054.1	3974.8	3911.4
115°	3340.5	3356.4	3467.4	3589.0	3731.7	3816.2	3874.4	3974.8	4006.5	3990.7	3937.8
117.5°	3335.3	3404.0	3499.1	3583.7	3721.1	3789.8	3848.0	3927.2	4022.4	3980.1	3927.2
120°	3382.8	3388.1	3488.5	3589.0	3689.4	3747.5	3747.5	3863.8	3906.1	3895.5	3885.0
122.5°	3367.0	3382.8	3467.4	3530.8	3636.5	3684.1	3731.7	3789.8	3837.4	3821.5	3821.5
125°	3261.3	3361.7	3409.3	3483.3	3583.7	3615.4	3663.0	3710.5	3752.8	3737.0	3731.7
127.5°	3324.7	3330.0	3372.3	3451.5	3515.0	3536.1	3589.0	3631.3	3673.5	3668.3	3678.8
130°	3298.3	3282.4	3382.8	3414.5	3462.1	3499.1	3525.5	3562.5	3594.3	3594.3	3604.8
132.5°	3277.1	3277.1	3308.8	3372.3	3414.5	3441.0	3483.3	3493.8	3530.8	3541.4	3520.3
135°	3213.7	3256.0	3303.5	3324.7	3372.3	3393.4	3414.5	3435.7	3467.4	3478.0	3441.0
137.5°	3150.3	3213.7	3277.1	3308.8	3345.8	3345.8	3345.8	3377.5	3393.4	3409.3	3372.3
140°	3219.0	3213.7	3271.8	3266.5	3287.7	3282.4	3319.4	3324.7	3345.8	3335.3	3314.1
142.5°	3203.1	3203.1	3219.0	3240.1	3234.8	3245.4	3271.8	3298.3	3298.3	3308.8	3271.8
145°	3150.3	3166.1	3192.5	3213.7	3213.7	3208.4	3240.1	3245.4	3256.0	3250.7	3229.5
147.5°	3171.4	3171.4	3171.4	3197.8	3197.8	3197.8	3203.1	3208.4	3208.4	3213.7	3197.8
150°	3155.5	3160.8	3171.4	3160.8	3187.3	3145.0	3171.4	3171.4	3171.4	3176.7	3166.1
152.5°	3049.8	3123.8	3150.3	3145.0	3123.8	3134.4	3139.7	3160.8	3150.3	3160.8	3129.1
155°	3102.7	3097.4	3102.7	3108.0	3092.1	3102.7	3108.0	3108.0	3102.7	3108.0	3081.5
157.5°	3086.8	3081.5	3108.0	3076.3	3092.1	3102.7	3081.5	3097.4	3081.5	3102.7	3092.1
160°	3071.0	3060.4	3081.5	3060.4	3081.5	3055.1	3039.3	3065.7	3049.8	3086.8	3034.0
162.5°	3049.8	3044.5	3065.7	3039.3	3018.1	3007.5	3023.4	3028.7	3018.1	3028.7	3002.3
165°	3023.4	3023.4	3023.4	2997.0	3012.8	3012.8	2991.7	2997.0	2928.3	3002.3	2970.5
167.5°	3002.3	3023.4	2997.0	2970.5	3002.3	3002.3	2965.3	2970.5	2923.0	2960.0	2944.1
170°	2975.8	2954.7	2960.0	2960.0	2986.4	2938.8	2912.4	2960.0	2933.5	2960.0	2933.5
172.5°	2912.4	2933.5	2933.5	2923.0	2907.1	2907.1	2901.8	2912.4	2896.5	2901.8	2886.0
175°	2891.3	2891.3	2901.8	2917.7	2886.0	2880.7	2849.0	2875.4	2859.5	2870.1	2854.3
177.5°	2812.0	2854.3	2849.0	2812.0	2833.1	2801.4	2817.3	2827.8	2796.1	2822.5	2796.1
180°	2759.1	2759.1	2759.1	2759.1	2759.1	2759.1	2759.1	2759.1	2759.1	2759.1	2759.1



TEST NUMBER: P508448

CATALOG NUMBER: ASYX-X-S3-X-U-HSS-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°	10.6	10.6	10.6	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
95°	47.6	63.4	153.3	126.9	95.1	89.9	100.4	89.9	79.3	68.7	63.4
97.5°	380.6	428.1	449.3	396.4	391.1	359.4	322.4	243.1	222.0	195.6	153.3
100°	1041.3	925.0	866.8	771.7	623.7	565.6	518.0	428.1	348.9	306.6	259.0
102.5°	1992.7	1776.0	1495.8	1199.8	977.8	893.3	798.1	666.0	560.3	465.1	385.9
105°	3139.7	2727.4	2183.0	1786.6	1490.6	1305.6	1221.0	1009.6	835.1	729.4	613.1
107.5°	3520.3	3256.0	2917.7	2505.4	2156.6	1987.4	1802.4	1522.3	1300.3	1104.7	930.3
110°	3678.8	3451.5	3197.8	2954.7	2716.8	2563.5	2436.7	2151.3	1876.4	1633.3	1390.1
112.5°	3758.1	3530.8	3308.8	3113.3	2928.3	2843.7	2753.8	2526.5	2315.1	2082.6	1791.8
115°	3811.0	3631.3	3435.7	3229.5	3086.8	2997.0	2917.7	2711.5	2516.0	2304.5	2008.6
117.5°	3837.4	3657.7	3515.0	3345.8	3197.8	3123.8	3039.3	2854.3	2658.7	2463.1	2167.1
120°	3805.7	3684.1	3567.8	3425.1	3282.4	3208.4	3139.7	2954.7	2775.0	2590.0	2299.3
122.5°	3763.4	3694.7	3604.8	3462.1	3356.4	3293.0	3234.8	3049.8	2891.3	2679.8	2415.5
125°	3715.8	3647.1	3552.0	3462.1	3377.5	3330.0	3287.7	3123.8	2960.0	2780.3	2531.8
127.5°	3641.8	3578.4	3504.4	3430.4	3367.0	3319.4	3303.5	3160.8	3007.5	2849.0	2595.3
130°	3562.5	3509.7	3446.3	3372.3	3330.0	3277.1	3282.4	3155.5	3034.0	2886.0	2658.7
132.5°	3456.8	3419.8	3404.0	3324.7	3282.4	3256.0	3219.0	3134.4	3034.0	2917.7	2701.0
135°	3409.3	3372.3	3345.8	3277.1	3213.7	3203.1	3150.3	3102.7	3018.1	2933.5	2727.4
137.5°	3324.7	3303.5	3287.7	3213.7	3150.3	3150.3	3134.4	3071.0	2997.0	2880.7	2706.3
140°	3287.7	3261.3	3219.0	3160.8	3123.8	3092.1	3076.3	3023.4	2933.5	2843.7	2701.0
142.5°	3224.3	3203.1	3192.5	3139.7	3081.5	3049.8	3018.1	2960.0	2896.5	2833.1	2679.8
145°	3187.3	3182.0	3171.4	3118.5	3028.7	3012.8	3002.3	2938.8	2880.7	2780.3	2674.5
147.5°	3139.7	3145.0	3134.4	3071.0	3012.8	2975.8	2949.4	2891.3	2849.0	2764.4	2632.3
150°	3108.0	3113.3	3102.7	3023.4	2960.0	2944.1	2933.5	2875.4	2796.1	2727.4	2616.4
152.5°	3092.1	3076.3	3049.8	3018.1	2949.4	2912.4	2901.8	2838.4	2796.1	2711.5	2605.8
155°	3060.4	3039.3	3023.4	2970.5	2928.3	2891.3	2864.8	2827.8	2780.3	2695.7	2605.8
157.5°	3028.7	3007.5	2997.0	2986.4	2928.3	2875.4	2870.1	2827.8	2753.8	2690.4	2616.4
160°	2997.0	2944.1	2986.4	2923.0	2907.1	2864.8	2833.1	2806.7	2753.8	2695.7	2632.3
162.5°	2965.3	2949.4	2944.1	2907.1	2875.4	2849.0	2801.4	2817.3	2753.8	2701.0	2653.4
165°	2938.8	2923.0	2917.7	2907.1	2859.5	2838.4	2827.8	2796.1	2769.7	2716.8	2674.5
167.5°	2912.4	2886.0	2896.5	2886.0	2827.8	2843.7	2817.3	2796.1	2780.3	2738.0	2695.7
170°	2907.1	2854.3	2880.7	2875.4	2833.1	2827.8	2796.1	2790.8	2775.0	2743.3	2722.1
172.5°	2880.7	2843.7	2859.5	2843.7	2822.5	2806.7	2806.7	2812.0	2785.5	2764.4	2738.0
175°	2838.4	2817.3	2822.5	2838.4	2806.7	2796.1	2769.7	2790.8	2796.1	2759.1	2748.5
177.5°	2790.8	2812.0	2796.1	2817.3	2790.8	2785.5	2769.7	2785.5	2785.5	2753.8	2753.8
180°	2759.1	2759.1	2759.1	2759.1	2759.1	2759.1	2759.1	2759.1	2759.1	2759.1	2759.1



TEST NUMBER: P508448

CATALOG NUMBER: ASYX-X-S3-X-U-HSS-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°	15.9	21.1	21.1	26.4	31.7	31.7	37.0	37.0	42.3	47.6	52.9
95°	31.7	26.4	31.7	37.0	37.0	42.3	47.6	47.6	52.9	58.1	58.1
97.5°	63.4	42.3	42.3	42.3	47.6	47.6	52.9	58.1	63.4	63.4	63.4
100°	121.6	68.7	68.7	52.9	52.9	58.1	58.1	63.4	68.7	68.7	68.7
102.5°	211.4	126.9	100.4	68.7	63.4	63.4	68.7	68.7	74.0	74.0	74.0
105°	396.4	253.7	142.7	84.6	79.3	74.0	74.0	74.0	79.3	79.3	79.3
107.5°	697.7	407.0	200.9	111.0	95.1	84.6	84.6	84.6	84.6	84.6	84.6
110°	1062.4	597.3	274.9	142.7	116.3	100.4	95.1	95.1	89.9	89.9	89.9
112.5°	1395.4	782.3	348.9	174.4	137.4	116.3	105.7	100.4	100.4	95.1	89.9
115°	1606.8	919.7	422.9	200.9	158.6	132.1	111.0	111.0	105.7	100.4	95.1
117.5°	1760.1	1062.4	512.7	243.1	185.0	153.3	121.6	116.3	111.0	111.0	105.7
120°	1908.1	1210.4	607.9	290.7	222.0	174.4	137.4	126.9	121.6	116.3	111.0
122.5°	2050.8	1353.1	713.6	348.9	259.0	206.1	153.3	137.4	132.1	121.6	121.6
125°	2161.8	1501.1	835.1	422.9	311.9	243.1	174.4	148.0	137.4	132.1	126.9
127.5°	2283.4	1649.1	962.0	502.1	370.0	290.7	200.9	163.9	153.3	142.7	137.4
130°	2373.3	1791.8	1099.4	607.9	454.6	348.9	237.9	185.0	163.9	153.3	148.0
132.5°	2442.0	1913.4	1236.8	724.1	555.0	422.9	285.4	222.0	185.0	169.1	158.6
135°	2463.1	2019.1	1379.6	851.0	660.7	518.0	348.9	264.3	211.4	185.0	174.4
137.5°	2484.3	2103.7	1517.0	993.7	798.1	634.3	422.9	317.1	253.7	216.7	190.3
140°	2473.7	2167.1	1649.1	1152.3	940.8	761.1	523.3	385.9	306.6	259.0	222.0
142.5°	2468.4	2220.0	1786.6	1300.3	1088.8	909.1	644.9	475.7	375.3	306.6	264.3
145°	2479.0	2257.0	1887.0	1458.8	1263.3	1078.3	792.8	581.4	459.9	375.3	327.7
147.5°	2442.0	2278.1	2008.6	1596.3	1416.6	1236.8	951.4	724.1	576.1	470.4	401.7
150°	2473.7	2288.7	2061.4	1733.7	1564.6	1400.7	1125.8	888.0	718.9	592.0	507.4
152.5°	2468.4	2299.3	2119.6	1855.3	1712.6	1559.3	1284.4	1051.8	872.1	740.0	639.6
155°	2494.8	2304.5	2177.7	1976.8	1850.0	1712.6	1464.1	1242.1	1051.8	919.7	803.4
157.5°	2516.0	2373.3	2246.4	2087.8	1976.8	1860.6	1649.1	1443.0	1263.3	1125.8	983.1
160°	2547.7	2410.3	2299.3	2177.7	2103.7	1982.1	1828.8	1665.0	1490.6	1342.6	1226.3
162.5°	2563.5	2468.4	2373.3	2251.7	2204.1	2119.6	1992.7	1871.1	1723.1	1585.7	1474.7
165°	2595.3	2500.1	2436.7	2336.3	2288.7	2214.7	2135.4	2024.4	1934.6	1818.3	1733.7
167.5°	2627.0	2563.5	2510.7	2431.4	2389.1	2336.3	2267.5	2193.6	2146.0	2056.1	1971.6
170°	2658.7	2605.8	2579.4	2542.4	2479.0	2436.7	2405.0	2352.1	2288.7	2246.4	2198.8
172.5°	2685.1	2664.0	2648.1	2637.5	2574.1	2542.4	2521.3	2463.1	2463.1	2405.0	2368.0
175°	2727.4	2658.7	2706.3	2679.8	2658.7	2632.3	2621.7	2605.8	2590.0	2568.8	2547.7
177.5°	2748.5	2738.0	2748.5	2738.0	2732.7	2706.3	2722.1	2706.3	2701.0	2695.7	2679.8
180°	2759.1	2759.1	2759.1	2759.1	2759.1	2759.1	2759.1	2759.1	2759.1	2759.1	2759.1





TEST NUMBER: P508448

CATALOG NUMBER: ASYX-X-S3-X-U-HSS-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°	58.1	58.1	63.4	63.4	63.4	63.4	68.7	63.4	58.1
95°	63.4	68.7	68.7	68.7	74.0	74.0	74.0	74.0	74.0
97.5°	68.7	68.7	74.0	74.0	74.0	79.3	79.3	79.3	79.3
100°	74.0	74.0	74.0	79.3	79.3	79.3	79.3	79.3	79.3
102.5°	74.0	74.0	74.0	79.3	79.3	79.3	79.3	79.3	79.3
105°	79.3	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
107.5°	79.3	79.3	74.0	74.0	74.0	74.0	74.0	74.0	74.0
110°	84.6	79.3	74.0	74.0	74.0	74.0	74.0	74.0	68.7
112.5°	89.9	84.6	79.3	74.0	74.0	74.0	74.0	68.7	68.7
115°	95.1	89.9	84.6	84.6	79.3	79.3	79.3	74.0	74.0
117.5°	100.4	95.1	89.9	89.9	84.6	84.6	79.3	79.3	79.3
120°	105.7	105.7	100.4	95.1	95.1	89.9	89.9	84.6	84.6
122.5°	116.3	105.7	105.7	105.7	105.7	100.4	95.1	95.1	95.1
125°	121.6	116.3	116.3	116.3	111.0	111.0	105.7	100.4	100.4
127.5°	132.1	126.9	126.9	121.6	121.6	116.3	116.3	111.0	111.0
130°	142.7	137.4	132.1	132.1	132.1	126.9	126.9	121.6	121.6
132.5°	153.3	148.0	148.0	142.7	142.7	137.4	137.4	132.1	132.1
135°	169.1	158.6	158.6	158.6	153.3	148.0	148.0	148.0	142.7
137.5°	179.7	174.4	169.1	163.9	163.9	163.9	158.6	158.6	158.6
140°	206.1	190.3	185.0	179.7	179.7	174.4	174.4	174.4	174.4
142.5°	237.9	222.0	206.1	200.9	195.6	190.3	190.3	185.0	185.0
145°	290.7	264.3	243.1	237.9	227.3	216.7	216.7	211.4	211.4
147.5°	354.1	322.4	296.0	285.4	280.1	269.6	259.0	253.7	248.4
150°	444.0	396.4	370.0	359.4	348.9	327.7	317.1	311.9	311.9
152.5°	560.3	507.4	465.1	444.0	433.4	412.3	396.4	391.1	396.4
155°	703.0	639.6	597.3	570.9	549.7	523.3	512.7	507.4	496.9
157.5°	903.8	819.3	755.8	734.7	708.3	681.9	666.0	650.1	639.6
160°	1120.6	1025.4	967.3	940.8	909.1	866.8	845.7	824.6	814.0
162.5°	1358.4	1279.1	1210.4	1168.1	1152.3	1099.4	1078.3	1051.8	1057.1
165°	1622.7	1538.1	1485.3	1453.6	1411.3	1384.8	1369.0	1332.0	1316.1
167.5°	1902.8	1807.7	1781.3	1739.0	1702.0	1665.0	1665.0	1649.1	1633.3
170°	2114.3	2093.1	2061.4	2013.8	2008.6	1982.1	1982.1	1966.3	1971.6
172.5°	2315.1	2283.4	2283.4	2267.5	2251.7	2241.1	2214.7	2225.3	2225.3
175°	2516.0	2500.1	2489.5	2447.3	2457.8	2457.8	2442.0	2442.0	2452.5
177.5°	2679.8	2679.8	2669.3	2664.0	2658.7	2664.0	2669.3	2674.5	2664.0
180°	2759.1	2759.1	2759.1	2759.1	2759.1	2759.1	2759.1	2759.1	2759.1

(END OF REPORT)