

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: P508430

Luminaire Tested: **ASYX-X-S2-X-U-F-L40-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P508430  
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-S2-X-U-F-L40-1-UNV-X-X-X-STD  
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.  
(2) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

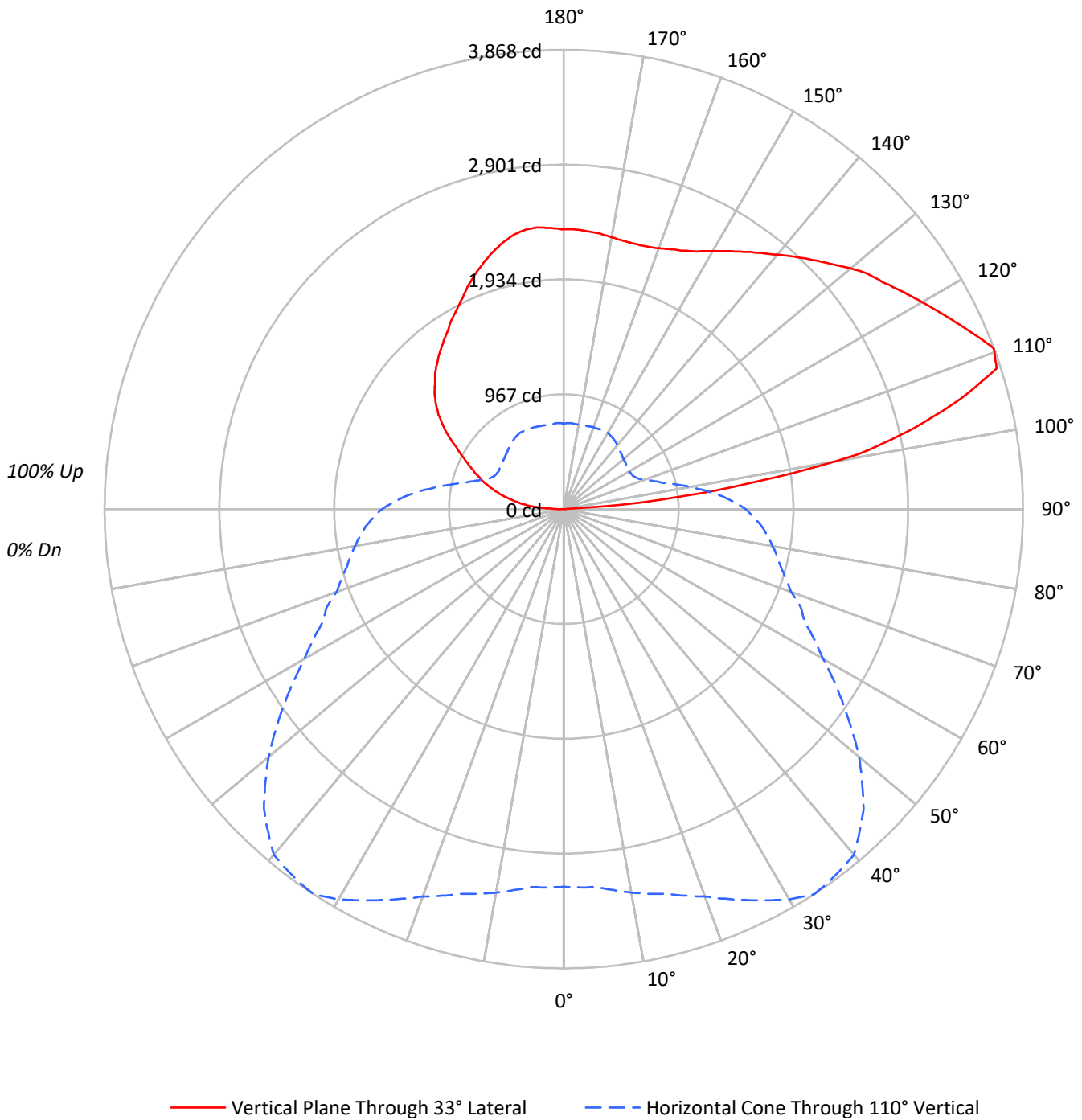
Lumens per Lamp: N/A  
Luminaire Lumens: 11191.5 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
N/A  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
CIE Type: Indirect

Input Watts (W): 107.9  
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: P508430  
CATALOG NUMBER: ASYX-X-S2-X-U-F-L40-1-UNV-X-X-X-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P508430

CATALOG NUMBER: ASYX-X-S2-X-U-F-L40-1-UNV-X-X-X-STD

**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°	81585	31295	68297
100°	207123	66661	56185
105°	201255	73795	47918
110°	200166	96454	45445
115°	174513	109361	41673
120°	145020	107484	40184
125°	123535	100182	40937
130°	105605	91840	43221
135°	90854	84421	43731
140°	79221	77926	43604
145°	69644	71864	43907
150°	61101	67117	43917
155°	56105	62946	44518
160°	51913	58687	46018
165°	50160	55553	48276
170°	49954	53061	50289
175°	51125	51376	50710



TEST NUMBER: P508430

CATALOG NUMBER: ASYX-X-S2-X-U-F-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°	406.2	3.6
100°-110°	1498.3	13.4
110°-120°	2033.0	18.2
120°-130°	2024.0	18.1
130°-140°	1801.8	16.1
140°-150°	1464.2	13.1
150°-160°	1075.1	9.6
160°-170°	663.4	5.9
170°-180°	225.4	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°	3937.6	35.2
90°-150°	9227.5	82.5
90°-180°	11191.0	100.0
0°-180°	11191.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	330	488	127	192	276	547
105°	2420	3249	887	522	576	2575
115°	3426	3526	2147	833	818	3350
125°	3291	3291	2669	1183	1091	2942
135°	2984	2996	2773	1494	1436	2325
145°	2650	2658	2734	1770	1671	1667
155°	2362	2443	2650	2078	1874	1090
165°	2251	2331	2493	2308	2166	643
175°	2366	2343	2377	2377	2347	222
180°	2358	2358	2358	2358	2358	



TEST NUMBER: P508430

CATALOG NUMBER: ASYX-X-S2-X-U-F-L40-1-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°	19.2	19.2	19.2	23.0	26.9	26.9	34.6	38.4	34.6	49.9	57.6
95°	330.3	380.2	545.4	649.1	641.4	606.8	645.2	756.6	814.2	741.2	629.9
97.5°	829.6	860.3	1202.1	1363.4	1505.5	1574.7	1636.1	1586.2	1613.1	1597.7	1455.6
100°	1670.7	1770.5	1889.6	2054.7	2258.3	2404.2	2515.6	2604.0	2519.5	2385.0	1993.3
102.5°	2139.2	2173.8	2254.5	2339.0	2557.9	2665.4	2776.8	2968.8	3026.4	2999.5	2788.3
105°	2419.6	2438.8	2515.6	2642.4	2811.4	2930.4	3068.7	3318.3	3464.3	3479.6	3495.0
107.5°	2772.9	2815.2	2907.4	2988.0	3187.7	3326.0	3448.9	3706.2	3833.0	3840.6	3786.9
110°	3180.1	3195.4	3279.9	3356.7	3471.9	3552.6	3633.2	3794.6	3867.5	3856.0	3802.2
112.5°	3399.0	3418.2	3448.9	3475.8	3529.6	3564.1	3614.0	3717.7	3760.0	3771.5	3717.7
115°	3425.9	3425.9	3448.9	3452.7	3514.2	3514.2	3537.2	3637.1	3656.3	3671.7	3640.9
117.5°	3402.8	3410.5	3425.9	3418.2	3445.1	3483.5	3475.8	3537.2	3560.3	3548.8	3560.3
120°	3368.2	3360.6	3391.3	3375.9	3395.1	3418.2	3402.8	3448.9	3468.1	3460.4	3498.8
122.5°	3333.7	3333.7	3345.2	3341.4	3333.7	3326.0	3329.8	3360.6	3379.8	3375.9	3399.0
125°	3291.4	3287.6	3283.8	3268.4	3287.6	3276.1	3256.9	3279.9	3295.3	3287.6	3310.6
127.5°	3222.3	3226.1	3218.5	3210.8	3187.7	3183.9	3203.1	3191.6	3230.0	3206.9	3230.0
130°	3153.2	3153.2	3145.5	3130.1	3122.4	3107.1	3103.2	3110.9	3134.0	3141.6	3107.1
132.5°	3099.4	3072.5	3053.3	3041.8	3041.8	3026.4	3018.7	3026.4	3037.9	3057.2	3061.0
135°	2984.2	2968.8	2968.8	2953.5	2976.5	2941.9	2934.3	2945.8	2949.6	2949.6	2972.7
137.5°	2918.9	2880.5	2865.1	2861.3	2857.4	2845.9	2845.9	2861.3	2865.1	2861.3	2880.5
140°	2819.0	2776.8	2792.1	2772.9	2776.8	2757.6	2765.3	2765.3	2780.6	2780.6	2799.8
142.5°	2761.4	2700.0	2692.3	2680.8	2684.6	2676.9	2715.3	2688.5	2703.8	2730.7	2719.2
145°	2650.0	2600.1	2611.6	2600.1	2604.0	2596.3	2615.5	2611.6	2630.8	2627.0	2646.2
147.5°	2531.0	2527.1	2531.0	2523.3	2531.0	2523.3	2546.3	2542.5	2561.7	2573.2	2577.1
150°	2458.0	2442.6	2446.5	2454.2	2446.5	2461.9	2461.9	2477.2	2496.4	2500.3	2515.6
152.5°	2381.2	2377.4	2396.6	2385.0	2392.7	2392.7	2404.2	2408.1	2435.0	2438.8	2477.2
155°	2362.0	2327.4	2327.4	2323.6	2342.8	2342.8	2358.2	2381.2	2392.7	2411.9	2415.8
157.5°	2292.9	2289.0	2289.0	2304.4	2285.2	2308.2	2342.8	2331.3	2362.0	2365.8	2381.2
160°	2266.0	2254.5	2262.1	2269.8	2269.8	2289.0	2315.9	2312.1	2331.3	2354.3	2358.2
162.5°	2281.3	2242.9	2246.8	2266.0	2258.3	2285.2	2289.0	2296.7	2315.9	2323.6	2346.6
165°	2250.6	2239.1	2231.4	2239.1	2262.1	2273.7	2285.2	2292.9	2312.1	2315.9	2327.4
167.5°	2262.1	2258.3	2258.3	2266.0	2281.3	2281.3	2300.5	2296.7	2315.9	2315.9	2323.6
170°	2285.2	2273.7	2281.3	2296.7	2269.8	2312.1	2308.2	2296.7	2327.4	2327.4	2339.0
172.5°	2315.9	2304.4	2308.2	2308.2	2308.2	2331.3	2335.1	2339.0	2342.8	2339.0	2339.0
175°	2365.8	2335.1	2331.3	2331.3	2339.0	2339.0	2346.6	2327.4	2350.5	2350.5	2346.6
177.5°	2354.3	2342.8	2362.0	2342.8	2335.1	2350.5	2362.0	2346.6	2358.2	2346.6	2358.2
180°	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2



TEST NUMBER: P508430

CATALOG NUMBER: ASYX-X-S2-X-U-F-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°	49.9	49.9	49.9	46.1	42.2	42.2	42.2	42.2	38.4	34.6	34.6
95°	487.8	387.9	353.3	291.9	245.8	226.6	195.9	195.9	145.9	119.1	126.7
97.5°	1225.2	952.5	756.6	572.3	545.4	510.8	507.0	430.2	380.2	345.7	299.6
100°	1590.0	1305.8	1133.0	1037.0	910.2	852.6	810.4	729.7	679.8	610.7	537.7
102.5°	2362.0	1962.6	1624.6	1340.4	1148.4	1067.7	1013.9	929.4	868.0	798.9	706.7
105°	3249.2	2688.5	2123.9	1697.6	1440.2	1336.5	1244.4	1159.9	1079.2	971.7	887.2
107.5°	3487.3	3080.2	2653.9	2177.6	1820.5	1716.8	1609.2	1467.1	1359.6	1267.4	1121.5
110°	3571.8	3245.3	2876.6	2523.3	2235.3	2162.3	2035.5	1893.4	1785.9	1674.5	1532.4
112.5°	3537.2	3333.7	3037.9	2723.0	2488.7	2415.8	2323.6	2235.3	2177.6	2093.2	1905.0
115°	3525.7	3360.6	3153.2	2872.8	2661.6	2580.9	2507.9	2427.3	2411.9	2354.3	2146.9
117.5°	3475.8	3364.4	3206.9	2980.3	2792.1	2738.4	2665.4	2600.1	2592.4	2534.8	2354.3
120°	3441.2	3349.0	3214.6	3064.8	2903.5	2845.9	2784.5	2734.5	2711.5	2669.2	2496.4
122.5°	3360.6	3326.0	3222.3	3095.6	2949.6	2922.7	2865.1	2780.6	2819.0	2772.9	2607.8
125°	3291.4	3272.2	3245.3	3091.7	2988.0	2953.5	2911.2	2861.3	2872.8	2842.1	2669.2
127.5°	3218.5	3214.6	3195.4	3103.2	3007.2	2991.9	2941.9	2903.5	2895.8	2865.1	2711.5
130°	3160.9	3157.0	3130.1	3068.7	3007.2	3003.4	2953.5	2922.7	2918.9	2892.0	2742.2
132.5°	3076.4	3076.4	3091.7	3030.3	2991.9	2980.3	2957.3	2918.9	2930.4	2872.8	2757.6
135°	2995.7	2999.5	3011.1	2980.3	3003.4	2961.1	2938.1	2888.2	2911.2	2888.2	2772.9
137.5°	2903.5	2915.0	2938.1	2926.6	2938.1	2941.9	2911.2	2899.7	2899.7	2876.6	2769.1
140°	2792.1	2838.2	2880.5	2876.6	2899.7	2895.8	2884.3	2830.6	2880.5	2865.1	2772.9
142.5°	2742.2	2769.1	2819.0	2807.5	2857.4	2857.4	2849.8	2845.9	2857.4	2830.6	2757.6
145°	2657.7	2700.0	2738.4	2761.4	2792.1	2822.9	2811.4	2819.0	2822.9	2822.9	2734.5
147.5°	2604.0	2650.0	2700.0	2707.7	2761.4	2769.1	2772.9	2784.5	2807.5	2776.8	2742.2
150°	2546.3	2577.1	2634.7	2657.7	2715.3	2726.9	2723.0	2738.4	2776.8	2753.7	2700.0
152.5°	2458.0	2523.3	2573.2	2607.8	2650.0	2676.9	2680.8	2680.8	2715.3	2715.3	2684.6
155°	2442.6	2477.2	2523.3	2557.9	2604.0	2630.8	2634.7	2634.7	2669.2	2657.7	2650.0
157.5°	2408.1	2454.2	2492.6	2504.1	2561.7	2584.8	2584.8	2592.4	2623.2	2630.8	2604.0
160°	2385.0	2408.1	2454.2	2488.7	2519.5	2546.3	2550.2	2557.9	2577.1	2573.2	2561.7
162.5°	2350.5	2385.0	2427.3	2446.5	2481.1	2507.9	2504.1	2504.1	2538.7	2546.3	2531.0
165°	2331.3	2369.7	2419.6	2431.1	2454.2	2469.5	2465.7	2477.2	2507.9	2500.3	2492.6
167.5°	2339.0	2358.2	2400.4	2396.6	2423.4	2435.0	2435.0	2427.3	2446.5	2419.6	2442.6
170°	2350.5	2350.5	2373.5	2381.2	2404.2	2415.8	2404.2	2404.2	2415.8	2423.4	2427.3
172.5°	2354.3	2350.5	2369.7	2365.8	2373.5	2392.7	2381.2	2365.8	2388.9	2404.2	2385.0
175°	2342.8	2346.6	2377.4	2369.7	2358.2	2377.4	2358.2	2354.3	2388.9	2385.0	2377.4
177.5°	2331.3	2331.3	2350.5	2335.1	2362.0	2362.0	2342.8	2342.8	2381.2	2354.3	2346.6
180°	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2



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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°	38.4	42.2	46.1	53.8	57.6	61.5	69.1	76.8	88.3	88.3	103.7
95°	122.9	126.7	126.7	134.4	138.3	138.3	142.1	157.5	172.8	192.0	226.6
97.5°	261.2	230.4	222.8	222.8	226.6	226.6	230.4	238.1	249.6	272.7	307.3
100°	460.9	391.7	341.8	314.9	307.3	303.4	307.3	307.3	326.5	357.2	395.6
102.5°	603.0	510.8	426.3	387.9	372.5	376.4	372.5	380.2	407.1	434.0	476.2
105°	760.4	641.4	533.8	476.2	453.2	449.4	449.4	457.0	487.8	522.3	553.1
107.5°	975.5	825.7	668.3	583.8	549.2	541.5	541.5	553.1	572.3	595.3	629.9
110°	1321.2	1075.4	856.5	722.0	676.0	649.1	633.7	645.2	656.8	676.0	702.8
112.5°	1643.8	1340.4	1052.3	848.8	787.3	745.1	722.0	722.0	737.4	752.8	772.0
115°	1866.6	1528.6	1217.5	979.4	891.0	852.6	802.7	806.5	818.1	833.4	844.9
117.5°	2066.3	1705.2	1355.7	1102.3	1002.4	941.0	891.0	879.5	902.6	921.8	929.4
120°	2208.4	1858.9	1494.0	1229.0	1113.8	1044.7	975.5	964.0	987.0	990.9	1029.3
122.5°	2327.4	1970.3	1613.1	1340.4	1217.5	1159.9	1075.4	1060.0	1075.4	1102.3	1133.0
125°	2404.2	2070.1	1720.6	1444.1	1328.9	1252.1	1163.7	1152.2	1163.7	1182.9	1217.5
127.5°	2465.7	2150.8	1824.3	1551.6	1417.2	1355.7	1267.4	1244.4	1259.7	1267.4	1305.8
130°	2511.8	2242.9	1920.3	1655.3	1536.3	1474.8	1355.7	1332.7	1340.4	1359.6	1378.8
132.5°	2557.9	2300.5	2016.3	1762.9	1647.6	1578.5	1463.3	1413.4	1417.2	1432.6	1451.8
135°	2588.6	2362.0	2116.2	1870.4	1743.7	1689.9	1567.0	1517.1	1497.9	1494.0	1517.1
137.5°	2619.3	2419.6	2193.0	1970.3	1862.7	1801.3	1655.3	1597.7	1578.5	1574.7	1582.3
140°	2646.2	2469.5	2262.1	2077.8	1970.3	1897.3	1762.9	1689.9	1659.2	1643.8	1651.5
142.5°	2657.7	2511.8	2335.1	2193.0	2062.4	1977.9	1866.6	1793.6	1728.3	1709.1	1693.7
145°	2665.4	2577.1	2404.2	2266.0	2166.1	2116.2	1981.8	1885.8	1808.9	1770.5	1762.9
147.5°	2665.4	2573.2	2450.3	2327.4	2242.9	2189.2	2043.2	1981.8	1920.3	1855.0	1824.3
150°	2657.7	2615.5	2484.9	2388.9	2300.5	2258.3	2154.6	2039.4	1974.1	1928.0	1893.4
152.5°	2638.5	2580.9	2504.1	2419.6	2354.3	2327.4	2208.4	2135.4	2066.3	1997.1	1970.3
155°	2619.3	2573.2	2515.6	2446.5	2392.7	2358.2	2273.7	2200.7	2150.8	2077.8	2050.9
157.5°	2596.3	2565.6	2515.6	2477.2	2415.8	2392.7	2308.2	2258.3	2216.1	2143.1	2108.5
160°	2561.7	2542.5	2511.8	2458.0	2431.1	2411.9	2342.8	2304.4	2262.1	2208.4	2181.5
162.5°	2527.1	2531.0	2492.6	2481.1	2438.8	2423.4	2377.4	2335.1	2292.9	2262.1	2239.1
165°	2500.3	2515.6	2477.2	2438.8	2438.8	2431.1	2381.2	2362.0	2342.8	2308.2	2281.3
167.5°	2450.3	2469.5	2469.5	2423.4	2419.6	2431.1	2400.4	2381.2	2365.8	2339.0	2323.6
170°	2442.6	2442.6	2415.8	2419.6	2431.1	2404.2	2385.0	2381.2	2381.2	2365.8	2354.3
172.5°	2396.6	2419.6	2408.1	2400.4	2388.9	2388.9	2377.4	2381.2	2373.5	2377.4	2373.5
175°	2381.2	2385.0	2388.9	2385.0	2373.5	2373.5	2369.7	2373.5	2377.4	2377.4	2369.7
177.5°	2358.2	2369.7	2388.9	2369.7	2377.4	2362.0	2358.2	2365.8	2365.8	2369.7	2362.0
180°	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2





TEST NUMBER: P508430

CATALOG NUMBER: ASYX-X-S2-X-U-F-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°	115.2	122.9	126.7	130.6	134.4	122.9	122.9	111.4	103.7
95°	245.8	265.0	265.0	265.0	276.5	284.2	280.4	276.5	276.5
97.5°	334.1	364.9	387.9	391.7	391.7	391.7	395.6	395.6	387.9
100°	422.5	437.8	453.2	457.0	453.2	453.2	449.4	457.0	453.2
102.5°	507.0	522.3	526.2	530.0	526.2	522.3	514.6	522.3	507.0
105°	579.9	595.3	591.5	587.6	583.8	576.1	568.4	579.9	576.1
107.5°	660.6	664.4	668.3	672.1	656.8	652.9	652.9	660.6	656.8
110°	725.9	741.2	737.4	733.6	733.6	725.9	722.0	725.9	722.0
112.5°	795.0	802.7	798.9	798.9	795.0	783.5	772.0	775.8	772.0
115°	868.0	871.8	868.0	860.3	852.6	844.9	829.6	821.9	818.1
117.5°	944.8	941.0	933.3	929.4	921.8	917.9	894.9	883.3	879.5
120°	1033.1	1021.6	1006.2	1002.4	990.9	987.0	956.3	937.1	933.3
122.5°	1140.7	1121.5	1090.7	1075.4	1071.5	1060.0	1021.6	1013.9	1002.4
125°	1232.8	1225.2	1206.0	1194.4	1179.1	1144.5	1102.3	1083.1	1090.7
127.5°	1321.2	1317.3	1309.7	1294.3	1275.1	1259.7	1225.2	1194.4	1186.8
130°	1394.2	1398.0	1386.5	1375.0	1363.4	1348.1	1309.7	1290.5	1290.5
132.5°	1463.3	1467.1	1474.8	1444.1	1436.4	1421.0	1386.5	1363.4	1371.1
135°	1517.1	1524.7	1513.2	1501.7	1494.0	1478.6	1444.1	1432.6	1436.4
137.5°	1590.0	1582.3	1570.8	1563.1	1543.9	1540.1	1513.2	1494.0	1486.3
140°	1636.1	1640.0	1640.0	1620.8	1601.5	1593.9	1567.0	1547.8	1551.6
142.5°	1697.6	1682.2	1689.9	1670.7	1659.2	1647.6	1613.1	1609.2	1609.2
145°	1743.7	1736.0	1732.1	1716.8	1712.9	1689.9	1678.4	1659.2	1670.7
147.5°	1793.6	1793.6	1793.6	1759.0	1751.3	1739.8	1728.3	1712.9	1724.4
150°	1866.6	1839.7	1832.0	1812.8	1797.4	1789.7	1762.9	1755.2	1766.7
152.5°	1924.2	1893.4	1870.4	1858.9	1855.0	1843.5	1828.1	1816.6	1816.6
155°	1993.3	1951.0	1951.0	1908.8	1897.3	1889.6	1874.2	1870.4	1874.2
157.5°	2066.3	2027.9	2008.7	1985.6	1966.4	1958.7	1939.5	1931.8	1939.5
160°	2120.0	2116.2	2073.9	2062.4	2043.2	2031.7	2027.9	2008.7	2008.7
162.5°	2204.5	2150.8	2143.1	2131.6	2116.2	2100.8	2093.2	2085.5	2093.2
165°	2250.6	2235.3	2216.1	2200.7	2189.2	2185.3	2162.3	2170.0	2166.1
167.5°	2304.4	2292.9	2273.7	2262.1	2266.0	2250.6	2250.6	2231.4	2235.3
170°	2342.8	2350.5	2327.4	2315.9	2308.2	2308.2	2292.9	2292.9	2300.5
172.5°	2369.7	2381.2	2362.0	2354.3	2346.6	2354.3	2339.0	2335.1	2342.8
175°	2377.4	2392.7	2377.4	2373.5	2365.8	2388.9	2362.0	2362.0	2346.6
177.5°	2369.7	2373.5	2388.9	2365.8	2365.8	2373.5	2377.4	2346.6	2365.8
180°	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2

(END OF REPORT)