

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: P508442

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

Issue Date: 4/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P508442  
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-S2-X-U-W-L40-1-UNV-X-X-X-STD  
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.  
(2) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

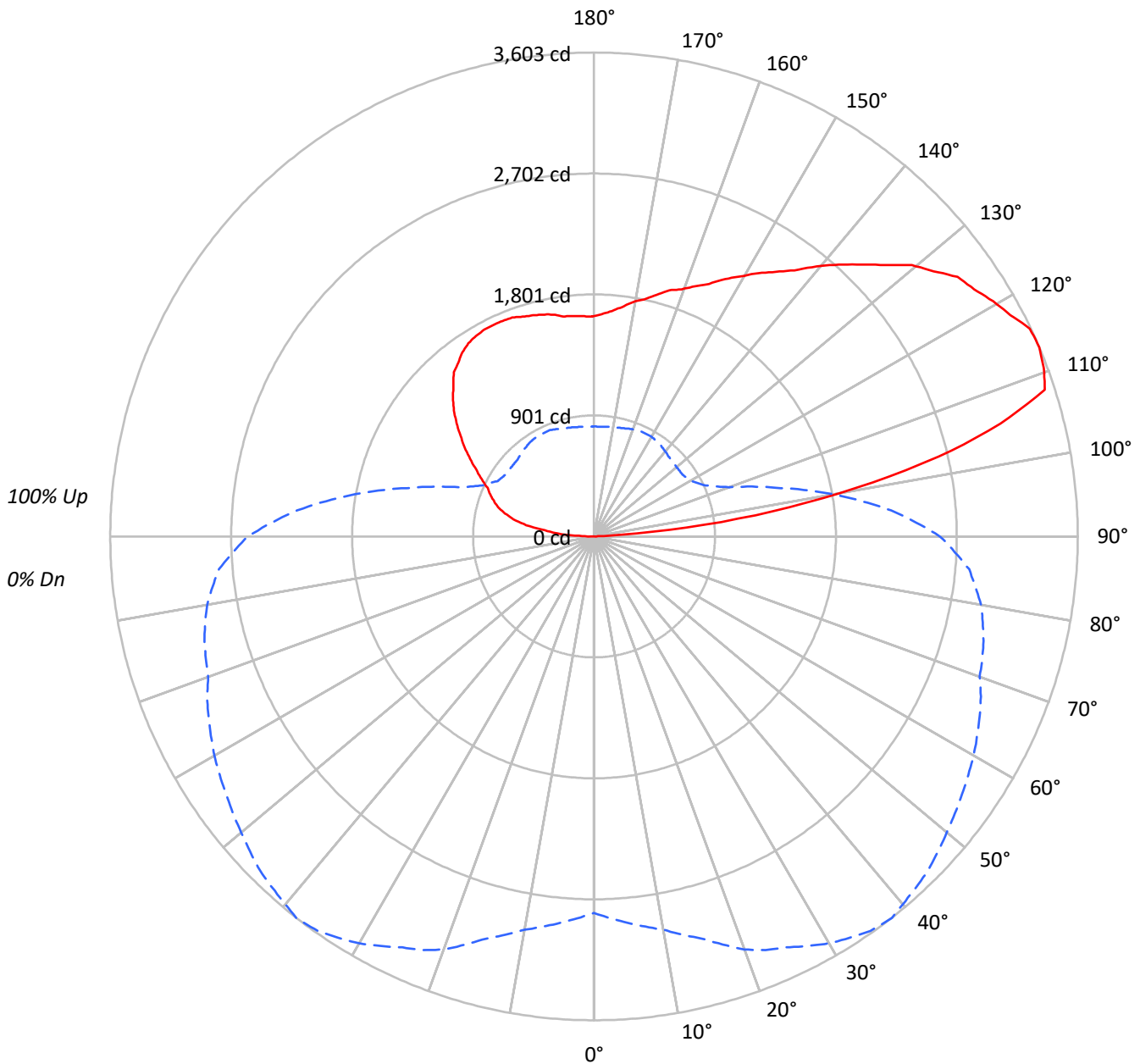
Lumens per Lamp: N/A  
Luminaire Lumens: 10830.6 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
N/A  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
CIE Type: Indirect

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: P508442  
CATALOG NUMBER: ASYX-X-S2-X-U-W-L40-1-UNV-X-X-X-STD

### Luminous Intensity Polar Plot



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



TEST NUMBER: P508442

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

RF	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				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°	50290	55971	71137
100°	137127	106184	64752
105°	137367	113404	59422
110°	153021	139488	50040
115°	161401	139884	41673
120°	151306	123195	38694
125°	132186	105373	38490
130°	113707	87466	39875
135°	96465	75068	40574
140°	80949	63897	41878
145°	68435	56220	41989
150°	58238	49836	42102
155°	50996	44611	40960
160°	45929	40651	39858
165°	42114	38263	38176
170°	39123	36436	36604
175°	36601	35523	35356



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**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°	443.3	4.1
100°-110°	1604.5	14.8
110°-120°	2163.0	20.0
120°-130°	2058.7	19.0
130°-140°	1715.2	15.8
140°-150°	1299.4	12.0
150°-160°	884.3	8.2
160°-170°	502.4	4.6
170°-180°	159.8	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°	4210.8	38.9
90°-150°	9284.1	85.7
90°-180°	10831.0	100.0
0°-180°	10830.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	204	664	227	227	288	362
105°	1652	3372	1363	603	714	1791
115°	3168	3449	2746	872	818	3055
125°	3522	3153	2808	1171	1026	3143
135°	3168	2715	2466	1486	1333	2455
145°	2604	2316	2139	1690	1598	1647
155°	2147	2036	1878	1751	1724	1003
165°	1890	1832	1717	1705	1713	539
175°	1694	1671	1644	1640	1636	165
180°	1636	1636	1636	1636	1636	



TEST NUMBER: P508442

CATALOG NUMBER: ASYX-X-S2-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°	30.7	30.7	30.7	34.6	38.4	42.2	42.2	53.8	69.1	73.0	84.5
95°	203.6	234.3	349.5	403.3	407.1	418.6	418.6	530.0	660.6	691.3	722.0
97.5°	545.4	583.8	706.7	802.7	941.0	979.4	1025.5	1117.6	1259.7	1344.2	1386.5
100°	1106.1	1113.8	1179.1	1267.4	1417.2	1501.7	1605.4	1858.9	1985.6	1985.6	1939.5
102.5°	1401.8	1409.5	1467.1	1551.6	1728.3	1855.0	1974.1	2281.3	2538.7	2634.7	2673.1
105°	1651.5	1678.4	1739.8	1858.9	2073.9	2216.1	2327.4	2676.9	2976.5	3141.6	3268.4
107.5°	1970.2	2012.5	2116.2	2254.5	2511.8	2676.9	2819.0	3103.2	3364.4	3529.6	3525.7
110°	2431.1	2454.2	2561.7	2742.2	2965.0	3095.6	3183.9	3383.6	3560.3	3575.6	3583.3
112.5°	2803.7	2888.2	2972.7	3099.4	3272.2	3333.7	3375.9	3498.8	3587.2	3602.5	3575.6
115°	3168.5	3199.3	3241.5	3326.0	3406.6	3468.1	3475.8	3541.1	3560.3	3594.8	3533.4
117.5°	3395.1	3410.5	3414.3	3445.1	3487.3	3521.9	3514.2	3533.4	3556.4	3510.3	3479.6
120°	3514.2	3529.6	3502.7	3514.2	3525.7	3533.4	3518.0	3525.7	3483.5	3448.9	3414.3
122.5°	3560.3	3556.4	3529.6	3529.6	3514.2	3510.3	3479.6	3452.7	3422.0	3375.9	3333.7
125°	3521.9	3537.2	3502.7	3475.8	3441.2	3498.8	3422.0	3395.1	3341.4	3326.0	3245.3
127.5°	3471.9	3502.7	3445.1	3418.2	3383.6	3372.1	3326.0	3287.6	3249.2	3206.9	3153.2
130°	3395.1	3406.6	3352.9	3326.0	3291.4	3256.9	3249.2	3164.7	3137.8	3110.9	3037.9
132.5°	3318.3	3299.1	3245.3	3210.8	3168.5	3149.3	3130.1	3057.2	3018.7	2961.1	2922.7
135°	3168.5	3172.4	3122.4	3084.0	3026.4	3026.4	2991.9	2938.1	2888.2	2838.2	2788.3
137.5°	3026.4	3053.3	2980.3	2945.8	2915.0	2892.0	2845.9	2796.0	2742.2	2723.0	2684.6
140°	2880.5	2884.3	2826.7	2796.0	2772.9	2730.7	2703.8	2657.7	2638.5	2604.0	2550.2
142.5°	2753.7	2738.4	2692.3	2657.7	2634.7	2604.0	2588.6	2542.5	2511.8	2481.1	2461.9
145°	2604.0	2600.1	2546.3	2523.3	2504.1	2492.6	2465.7	2431.1	2415.8	2388.9	2388.9
147.5°	2477.2	2458.0	2427.3	2400.4	2377.4	2365.8	2365.8	2304.4	2315.9	2312.1	2277.5
150°	2342.8	2339.0	2296.7	2285.2	2266.0	2273.7	2266.0	2239.1	2239.1	2223.7	2200.7
152.5°	2235.3	2235.3	2200.7	2193.0	2185.3	2181.5	2166.1	2154.6	2154.6	2150.8	2123.9
155°	2146.9	2146.9	2120.0	2116.2	2104.7	2100.8	2093.2	2081.6	2073.9	2066.3	2043.2
157.5°	2073.9	2070.1	2039.4	2043.2	2031.7	2031.7	2027.9	2004.8	2012.5	2008.7	1993.3
160°	2004.8	2001.0	1970.2	1981.8	1974.1	1974.1	1974.1	1958.7	1951.0	1951.0	1916.5
162.5°	1943.4	1951.0	1920.3	1916.5	1920.3	1920.3	1905.0	1893.4	1905.0	1916.5	1881.9
165°	1889.6	1881.9	1870.4	1866.6	1858.9	1851.2	1858.9	1851.2	1843.5	1858.9	1847.3
167.5°	1835.8	1843.5	1820.5	1812.8	1812.8	1828.1	1816.6	1801.3	1808.9	1805.1	1782.1
170°	1789.7	1797.4	1766.7	1766.7	1766.7	1766.7	1755.2	1743.7	1762.9	1770.5	1743.7
172.5°	1743.7	1755.2	1728.3	1724.4	1720.6	1728.3	1720.6	1709.1	1732.1	1720.6	1709.1
175°	1693.7	1712.9	1686.0	1682.2	1689.9	1689.9	1682.2	1674.5	1689.9	1682.2	1674.5
177.5°	1670.7	1670.7	1643.8	1647.6	1647.6	1643.8	1655.3	1651.5	1655.3	1655.3	1670.7
180°	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1



TEST NUMBER: P508442

CATALOG NUMBER: ASYX-X-S2-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°	88.3	103.7	111.4	61.5	61.5	69.1	65.3	57.6	49.9	46.1	46.1
95°	664.4	629.9	649.1	583.8	507.0	445.5	441.7	445.5	307.3	230.4	226.6
97.5°	1428.7	1413.4	1294.3	1109.9	1056.2	1060.0	994.7	825.7	691.3	591.5	510.8
100°	1858.9	1808.9	1755.2	1793.6	1686.0	1601.5	1482.5	1332.7	1175.2	1040.8	856.5
102.5°	2650.0	2573.2	2377.4	2162.3	1947.2	1870.4	1782.1	1613.1	1447.9	1290.5	1102.3
105°	3372.1	3241.5	2911.2	2604.0	2312.1	2223.7	2108.5	1920.3	1728.3	1570.8	1363.4
107.5°	3544.9	3448.9	3264.5	3057.2	2803.7	2657.7	2550.2	2346.6	2166.1	1951.0	1712.9
110°	3560.3	3464.3	3349.0	3206.9	3084.0	2999.5	2930.4	2776.8	2646.2	2458.0	2216.1
112.5°	3518.0	3429.7	3345.2	3264.5	3168.5	3118.6	3057.2	3003.4	2926.6	2803.7	2577.1
115°	3448.9	3372.1	3295.3	3226.1	3180.1	3157.0	3126.3	3084.0	3041.8	2949.6	2746.1
117.5°	3383.6	3295.3	3226.1	3203.1	3160.8	3126.3	3122.4	3114.8	3087.9	3041.8	2845.9
120°	3318.3	3249.2	3180.1	3130.1	3114.8	3110.9	3110.9	3087.9	3095.6	3057.2	2861.3
122.5°	3214.6	3160.8	3103.2	3080.2	3014.9	3030.3	3037.9	3022.6	3053.3	3026.4	2842.1
125°	3153.2	3099.4	3026.4	2991.9	2980.3	2965.0	2980.3	2953.5	2968.8	2949.6	2807.5
127.5°	3049.5	2980.3	2941.9	2915.0	2907.4	2853.6	2880.5	2884.3	2888.2	2857.4	2730.7
130°	2938.1	2899.7	2811.4	2822.9	2822.9	2803.7	2807.5	2792.1	2784.5	2757.6	2611.6
132.5°	2857.4	2807.5	2749.9	2734.5	2719.2	2715.3	2715.3	2688.4	2688.4	2653.9	2557.9
135°	2715.3	2680.8	2657.7	2642.4	2638.5	2623.2	2623.2	2596.3	2592.4	2561.7	2465.7
137.5°	2615.5	2580.9	2561.7	2550.2	2538.7	2511.8	2527.1	2504.1	2481.1	2473.4	2381.2
140°	2515.6	2488.7	2473.4	2454.2	2450.3	2435.0	2435.0	2408.1	2400.4	2365.8	2273.7
142.5°	2431.1	2415.8	2385.0	2377.4	2350.5	2354.3	2335.1	2339.0	2308.2	2269.8	2196.8
145°	2315.9	2319.7	2304.4	2289.0	2285.2	2262.1	2266.0	2242.9	2223.7	2196.8	2139.2
147.5°	2254.5	2254.5	2231.4	2212.2	2196.8	2193.0	2173.8	2177.6	2146.9	2108.5	2070.1
150°	2173.8	2166.1	2143.1	2131.6	2120.0	2120.0	2100.8	2089.3	2066.3	2054.7	2004.8
152.5°	2116.2	2097.0	2085.5	2062.4	2062.4	2043.2	2027.9	2020.2	2001.0	1977.9	1939.5
155°	2035.5	2027.9	2012.5	2008.7	1993.3	1977.9	1951.0	1947.2	1935.7	1912.6	1878.1
157.5°	1970.2	1981.8	1958.7	1947.2	1924.2	1920.3	1893.4	1897.3	1874.2	1858.9	1828.1
160°	1939.5	1920.3	1897.3	1893.4	1885.8	1855.0	1851.2	1839.7	1824.3	1812.8	1774.4
162.5°	1870.4	1866.6	1855.0	1847.3	1820.5	1820.5	1774.4	1793.6	1782.1	1770.5	1751.3
165°	1832.0	1835.8	1808.9	1801.3	1793.6	1778.2	1766.7	1755.2	1743.7	1736.0	1716.8
167.5°	1782.1	1774.4	1766.7	1751.3	1755.2	1743.7	1732.1	1724.4	1716.8	1709.1	1693.7
170°	1739.8	1736.0	1728.3	1716.8	1720.6	1709.1	1709.1	1693.7	1689.9	1686.0	1666.8
172.5°	1705.2	1705.2	1697.6	1697.6	1693.7	1682.2	1674.5	1666.8	1666.8	1659.2	1655.3
175°	1670.7	1674.5	1670.7	1666.8	1666.8	1659.2	1659.2	1663.0	1655.3	1655.3	1643.8
177.5°	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1640.0	1643.8	1640.0	1628.4
180°	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1



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CATALOG NUMBER: ASYX-X-S2-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°	49.9	53.8	57.6	61.5	73.0	69.1	80.7	84.5	92.2	107.5	111.4
95°	203.6	203.6	199.7	199.7	192.0	192.0	188.2	184.4	203.6	226.6	257.3
97.5°	418.6	357.2	326.5	314.9	311.1	307.3	299.6	288.0	295.7	314.9	353.3
100°	706.7	583.8	483.9	426.3	414.8	395.6	387.9	384.1	384.1	422.5	483.9
102.5°	914.1	733.6	603.0	518.5	495.4	476.2	464.7	464.7	472.4	518.5	587.6
105°	1156.0	925.6	725.9	614.5	595.3	568.4	549.2	553.1	560.7	603.0	664.4
107.5°	1447.9	1171.4	933.3	760.4	718.2	679.8	649.1	649.1	652.9	679.8	725.9
110°	1885.8	1528.6	1171.4	914.1	844.9	802.7	729.7	729.7	725.9	745.1	775.8
112.5°	2219.9	1805.1	1398.0	1067.7	971.7	902.6	825.7	802.7	802.7	806.5	825.7
115°	2419.6	1989.5	1555.5	1209.8	1083.1	998.6	902.6	875.7	864.1	871.8	864.1
117.5°	2534.8	2100.8	1689.9	1313.5	1194.4	1098.4	979.4	944.8	925.6	941.0	937.1
120°	2592.4	2200.7	1797.4	1421.0	1298.1	1186.8	1060.0	1025.5	1010.1	1010.1	1013.9
122.5°	2600.1	2254.5	1858.9	1517.1	1394.2	1286.6	1156.0	1106.1	1090.7	1094.6	1094.6
125°	2573.2	2246.8	1916.5	1593.9	1474.8	1367.3	1232.8	1190.6	1156.0	1171.4	1175.2
127.5°	2531.0	2227.6	1951.0	1655.3	1547.8	1451.8	1328.9	1278.9	1248.2	1255.9	1252.0
130°	2469.5	2204.5	1981.8	1709.1	1616.9	1520.9	1413.4	1367.3	1325.0	1328.9	1332.7
132.5°	2408.1	2196.8	1997.1	1751.3	1674.5	1593.9	1486.3	1440.2	1401.8	1405.7	1405.7
135°	2342.8	2177.6	1977.9	1778.2	1739.8	1655.3	1567.0	1517.1	1486.3	1486.3	1478.6
137.5°	2273.7	2131.6	1993.3	1832.0	1778.2	1709.1	1620.8	1582.3	1551.6	1547.8	1543.9
140°	2212.2	2081.6	1974.1	1843.5	1805.1	1751.3	1678.4	1647.6	1605.4	1597.7	1620.8
142.5°	2150.8	2058.6	1993.3	1870.4	1832.0	1785.9	1732.1	1689.9	1659.2	1651.5	1647.6
145°	2089.3	2035.5	1962.6	1862.7	1847.3	1801.3	1743.7	1732.1	1697.6	1689.9	1689.9
147.5°	2027.9	1981.8	1928.0	1858.9	1858.9	1820.5	1793.6	1759.0	1732.1	1716.8	1716.8
150°	1974.1	1935.7	1908.8	1855.0	1851.2	1820.5	1797.4	1782.1	1751.3	1743.7	1739.8
152.5°	1924.2	1889.6	1866.6	1832.0	1828.1	1785.9	1793.6	1778.2	1747.5	1739.8	1739.8
155°	1862.7	1858.9	1832.0	1797.4	1812.8	1789.7	1770.5	1789.7	1743.7	1751.3	1751.3
157.5°	1820.5	1816.6	1812.8	1778.2	1782.1	1770.5	1759.0	1774.4	1736.0	1739.8	1739.8
160°	1774.4	1766.7	1766.7	1736.0	1759.0	1736.0	1739.8	1747.5	1724.4	1728.3	1739.8
162.5°	1751.3	1736.0	1736.0	1724.4	1732.1	1724.4	1705.2	1732.1	1728.3	1720.6	1724.4
165°	1712.9	1709.1	1716.8	1693.7	1712.9	1689.9	1697.6	1709.1	1701.4	1705.2	1709.1
167.5°	1689.9	1686.0	1689.9	1678.4	1689.9	1682.2	1678.4	1693.7	1686.0	1689.9	1693.7
170°	1670.7	1670.7	1674.5	1663.0	1674.5	1663.0	1674.5	1674.5	1670.7	1670.7	1678.4
172.5°	1663.0	1651.5	1663.0	1643.8	1663.0	1640.0	1647.6	1659.2	1655.3	1651.5	1651.5
175°	1647.6	1643.8	1655.3	1636.1	1647.6	1636.1	1636.1	1647.6	1643.8	1640.0	1655.3
177.5°	1647.6	1636.1	1647.6	1628.4	1640.0	1632.3	1632.3	1643.8	1636.1	1636.1	1647.6
180°	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1





TEST NUMBER: P508442

CATALOG NUMBER: ASYX-X-S2-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°	111.4	130.6	134.4	145.9	142.1	119.1	103.7	84.5	73.0
95°	291.9	322.6	353.3	349.5	361.0	338.0	314.9	303.4	288.0
97.5°	391.7	441.7	472.4	472.4	476.2	460.9	453.2	460.9	441.7
100°	553.1	587.6	599.1	595.3	583.8	556.9	541.5	533.8	522.3
102.5°	649.1	687.5	699.0	691.3	683.6	672.1	656.7	649.1	645.2
105°	714.4	748.9	764.3	760.4	756.6	737.4	706.7	718.2	714.4
107.5°	775.8	798.9	814.2	802.7	798.9	787.3	768.1	779.7	764.3
110°	814.2	833.4	837.3	837.3	829.6	818.1	802.7	806.5	795.0
112.5°	844.9	856.5	856.5	856.5	848.8	833.4	825.7	818.1	818.1
115°	879.5	871.8	875.7	875.7	868.0	844.9	833.4	825.7	818.1
117.5°	941.0	929.4	917.9	917.9	898.7	883.3	871.8	860.3	848.8
120°	998.6	990.9	983.2	971.7	960.2	941.0	921.8	906.4	898.7
122.5°	1075.4	1056.2	1044.7	1052.3	1029.3	1010.1	987.0	971.7	952.5
125°	1159.9	1144.5	1125.3	1117.6	1098.4	1083.1	1063.9	1048.5	1025.5
127.5°	1232.8	1209.8	1202.1	1198.3	1175.2	1156.0	1125.3	1113.8	1113.8
130°	1317.3	1290.5	1294.3	1275.1	1255.9	1225.2	1194.4	1194.4	1190.6
132.5°	1398.0	1367.3	1363.4	1355.7	1332.7	1309.7	1290.5	1286.6	1271.3
135°	1463.3	1440.2	1436.4	1428.7	1409.5	1386.5	1355.7	1363.4	1332.7
137.5°	1520.9	1509.4	1505.5	1490.2	1471.0	1467.1	1432.6	1428.7	1409.5
140°	1586.2	1563.1	1578.5	1559.3	1536.3	1528.6	1482.5	1490.2	1490.2
142.5°	1632.3	1620.8	1616.9	1609.2	1593.9	1578.5	1567.0	1551.6	1559.3
145°	1678.4	1670.7	1663.0	1663.0	1640.0	1632.3	1609.2	1609.2	1597.7
147.5°	1716.8	1701.4	1701.4	1693.7	1682.2	1674.5	1651.5	1663.0	1643.8
150°	1716.8	1724.4	1716.8	1716.8	1720.6	1716.8	1697.6	1689.9	1693.7
152.5°	1747.5	1736.0	1728.3	1743.7	1724.4	1736.0	1709.1	1716.8	1709.1
155°	1732.1	1739.8	1743.7	1736.0	1736.0	1736.0	1724.4	1743.7	1724.4
157.5°	1747.5	1739.8	1743.7	1739.8	1732.1	1743.7	1732.1	1747.5	1736.0
160°	1739.8	1732.1	1739.8	1736.0	1728.3	1743.7	1743.7	1755.2	1739.8
162.5°	1712.9	1720.6	1739.8	1728.3	1728.3	1755.2	1712.9	1751.3	1728.3
165°	1705.2	1709.1	1716.8	1724.4	1709.1	1720.6	1720.6	1724.4	1712.9
167.5°	1697.6	1682.2	1697.6	1697.6	1701.4	1701.4	1701.4	1709.1	1693.7
170°	1682.2	1651.5	1682.2	1682.2	1674.5	1674.5	1670.7	1693.7	1674.5
172.5°	1655.3	1647.6	1659.2	1659.2	1666.8	1663.0	1663.0	1666.8	1655.3
175°	1640.0	1643.8	1659.2	1647.6	1643.8	1647.6	1636.1	1647.6	1636.1
177.5°	1632.3	1632.3	1636.1	1640.0	1647.6	1640.0	1628.4	1640.0	1628.4
180°	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1

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