

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: P508441

Luminaire Tested: **ASYX-X-S2-X-U-W-L35-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508441
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-L35-1-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

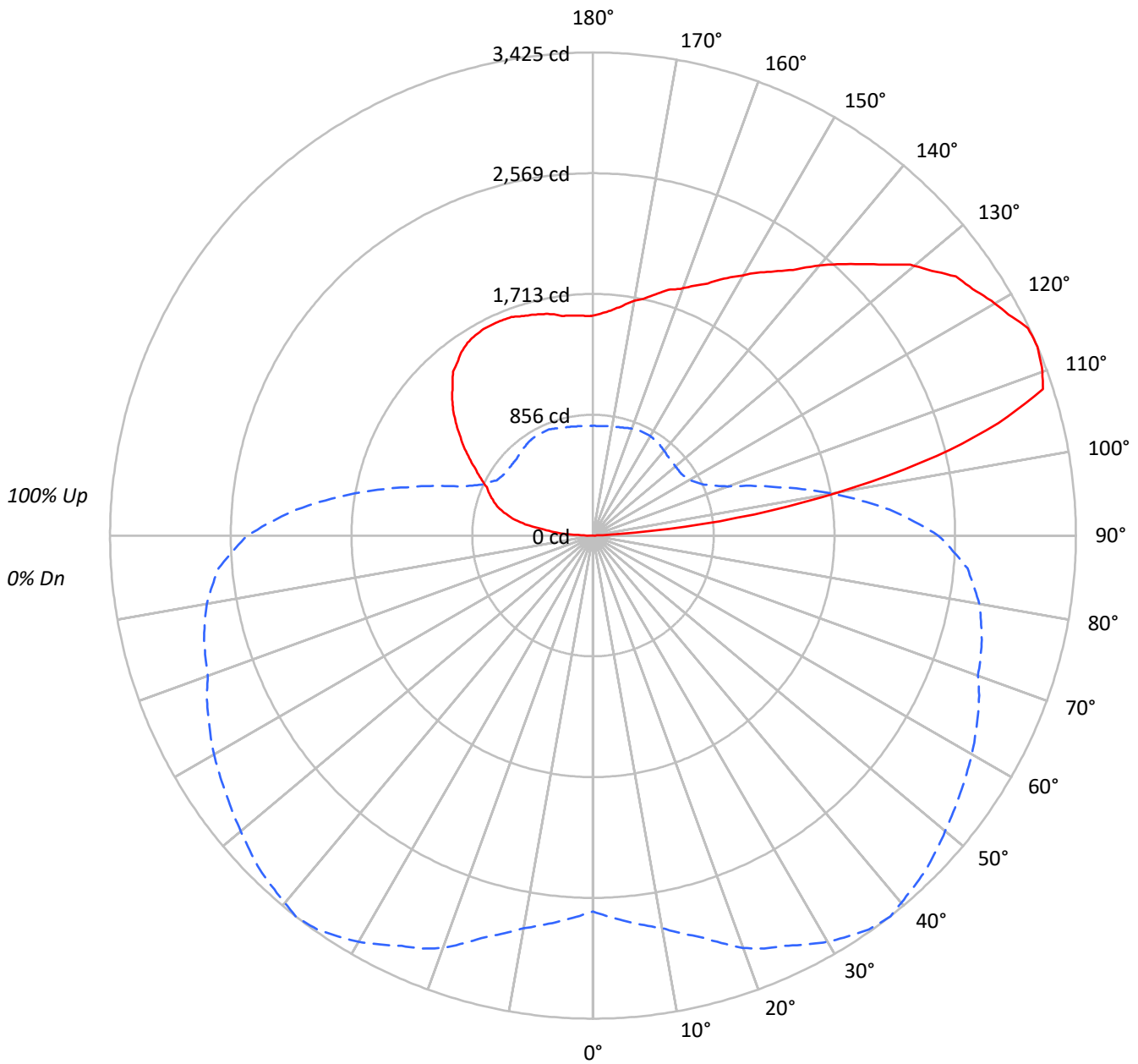
Lumens per Lamp: N/A
Luminaire Lumens: 10298.0 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
N/A
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
CIE Type: Indirect

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: P508441
CATALOG NUMBER: ASYX-X-S2-X-U-W-L35-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot



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



TEST NUMBER: P508441

CATALOG NUMBER: ASYX-X-S2-X-U-W-L35-1-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°	47795	53229	67654
100°	130383	100952	61565
105°	130613	107831	56494
110°	145499	132628	47579
115°	153464	133002	39620
120°	143866	117137	36791
125°	125686	100190	36594
130°	108117	83166	37912
135°	91721	71375	38580
140°	76967	60752	39819
145°	65068	53455	39923
150°	55374	47385	40032
155°	48488	42416	38946
160°	43670	38651	37897
165°	40044	36379	36299
170°	37199	34646	34805
175°	34801	33777	33617



TEST NUMBER: P508441

CATALOG NUMBER: ASYX-X-S2-X-U-W-L35-1-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°	421.5	4.1
100°-110°	1525.6	14.8
110°-120°	2056.6	20.0
120°-130°	1957.4	19.0
130°-140°	1630.9	15.8
140°-150°	1235.5	12.0
150°-160°	840.8	8.2
160°-170°	477.7	4.6
170°-180°	152.0	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°	4003.7	38.9
90°-150°	8827.5	85.7
90°-180°	10298.0	100.0
0°-180°	10298.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	194	632	216	216	274	344
105°	1570	3206	1296	573	679	1703
115°	3013	3279	2611	829	778	2905
125°	3349	2998	2669	1114	975	2989
135°	3013	2582	2344	1413	1267	2334
145°	2476	2202	2034	1607	1519	1566
155°	2041	1935	1786	1665	1640	954
165°	1797	1742	1632	1621	1629	513
175°	1610	1588	1563	1559	1556	157
180°	1556	1556	1556	1556	1556	



TEST NUMBER: P508441

CATALOG NUMBER: ASYX-X-S2-X-U-W-L35-1-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°	29.2	29.2	29.2	32.9	36.5	40.2	40.2	51.1	65.7	69.4	80.3
95°	193.5	222.8	332.3	383.4	387.1	398.0	398.0	503.9	628.1	657.3	686.5
97.5°	518.5	555.1	671.9	763.2	894.7	931.2	975.0	1062.7	1197.8	1278.1	1318.3
100°	1051.7	1059.0	1121.1	1205.1	1347.5	1427.8	1526.4	1767.5	1888.0	1888.0	1844.1
102.5°	1332.9	1340.2	1395.0	1475.3	1643.3	1763.8	1877.0	2169.1	2413.8	2505.1	2541.6
105°	1570.3	1595.8	1654.2	1767.5	1971.9	2107.1	2213.0	2545.3	2830.1	2987.1	3107.6
107.5°	1873.4	1913.5	2012.1	2143.6	2388.2	2545.3	2680.4	2950.6	3198.9	3356.0	3352.3
110°	2311.6	2333.5	2435.7	2607.4	2819.2	2943.3	3027.3	3217.2	3385.2	3399.8	3407.1
112.5°	2665.8	2746.1	2826.5	2947.0	3111.3	3169.7	3209.9	3326.8	3410.7	3425.3	3399.8
115°	3012.7	3041.9	3082.1	3162.4	3239.1	3297.5	3304.8	3366.9	3385.2	3418.0	3359.6
117.5°	3228.2	3242.8	3246.4	3275.6	3315.8	3348.7	3341.4	3359.6	3381.5	3337.7	3308.5
120°	3341.4	3356.0	3330.4	3341.4	3352.3	3359.6	3345.0	3352.3	3312.1	3279.3	3246.4
122.5°	3385.2	3381.5	3356.0	3356.0	3341.4	3337.7	3308.5	3282.9	3253.7	3209.9	3169.7
125°	3348.7	3363.3	3330.4	3304.8	3272.0	3326.8	3253.7	3228.2	3177.0	3162.4	3085.7
127.5°	3301.2	3330.4	3275.6	3250.1	3217.2	3206.2	3162.4	3125.9	3089.4	3049.2	2998.1
130°	3228.2	3239.1	3188.0	3162.4	3129.6	3096.7	3089.4	3009.0	2983.5	2957.9	2888.5
132.5°	3155.1	3136.9	3085.7	3052.9	3012.7	2994.4	2976.2	2906.8	2870.3	2815.5	2779.0
135°	3012.7	3016.4	2968.9	2932.4	2877.6	2877.6	2844.7	2793.6	2746.1	2698.6	2651.2
137.5°	2877.6	2903.1	2833.8	2800.9	2771.7	2749.8	2706.0	2658.5	2607.4	2589.1	2552.6
140°	2738.8	2742.5	2687.7	2658.5	2636.6	2596.4	2570.8	2527.0	2508.8	2475.9	2424.8
142.5°	2618.3	2603.7	2559.9	2527.0	2505.1	2475.9	2461.3	2417.5	2388.2	2359.0	2340.8
145°	2475.9	2472.2	2421.1	2399.2	2380.9	2370.0	2344.4	2311.6	2297.0	2271.4	2271.4
147.5°	2355.4	2337.1	2307.9	2282.3	2260.4	2249.5	2249.5	2191.1	2202.0	2198.4	2165.5
150°	2227.6	2223.9	2183.8	2172.8	2154.5	2161.8	2154.5	2129.0	2129.0	2114.4	2092.5
152.5°	2125.3	2125.3	2092.5	2085.2	2077.9	2074.2	2059.6	2048.6	2048.6	2045.0	2019.4
155°	2041.3	2041.3	2015.8	2012.1	2001.2	1997.5	1990.2	1979.3	1971.9	1964.6	1942.7
157.5°	1971.9	1968.3	1939.1	1942.7	1931.8	1931.8	1928.1	1906.2	1913.5	1909.9	1895.3
160°	1906.2	1902.6	1873.4	1884.3	1877.0	1877.0	1877.0	1862.4	1855.1	1855.1	1822.2
162.5°	1847.8	1855.1	1825.9	1822.2	1825.9	1825.9	1811.3	1800.3	1811.3	1822.2	1789.4
165°	1796.7	1789.4	1778.4	1774.8	1767.5	1760.1	1767.5	1760.1	1752.8	1767.5	1756.5
167.5°	1745.5	1752.8	1730.9	1723.6	1723.6	1738.2	1727.3	1712.7	1720.0	1716.3	1694.4
170°	1701.7	1709.0	1679.8	1679.8	1679.8	1679.8	1668.9	1657.9	1676.2	1683.5	1657.9
172.5°	1657.9	1668.9	1643.3	1639.6	1636.0	1643.3	1636.0	1625.0	1646.9	1636.0	1625.0
175°	1610.4	1628.7	1603.1	1599.5	1606.8	1606.8	1599.5	1592.2	1606.8	1599.5	1592.2
177.5°	1588.5	1588.5	1563.0	1566.6	1566.6	1563.0	1573.9	1570.3	1573.9	1573.9	1588.5
180°	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6



TEST NUMBER: P508441

CATALOG NUMBER: ASYX-X-S2-X-U-W-L35-1-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°	84.0	98.6	105.9	58.4	58.4	65.7	62.1	54.8	47.5	43.8	43.8
95°	631.8	598.9	617.1	555.1	482.0	423.6	420.0	423.6	292.1	219.1	215.5
97.5°	1358.5	1343.8	1230.6	1055.4	1004.2	1007.9	945.8	785.1	657.3	562.4	485.7
100°	1767.5	1720.0	1668.9	1705.4	1603.1	1522.8	1409.6	1267.2	1117.4	989.6	814.3
102.5°	2519.7	2446.7	2260.4	2055.9	1851.4	1778.4	1694.4	1533.7	1376.7	1227.0	1048.1
105°	3206.2	3082.1	2768.0	2475.9	2198.4	2114.4	2004.8	1825.9	1643.3	1493.6	1296.4
107.5°	3370.6	3279.3	3104.0	2906.8	2665.8	2527.0	2424.8	2231.2	2059.6	1855.1	1628.7
110°	3385.2	3293.9	3184.3	3049.2	2932.4	2852.0	2786.3	2640.2	2516.1	2337.1	2107.1
112.5°	3345.0	3261.0	3180.7	3104.0	3012.7	2965.2	2906.8	2855.7	2782.6	2665.8	2450.3
115°	3279.3	3206.2	3133.2	3067.5	3023.7	3001.7	2972.5	2932.4	2892.2	2804.6	2611.0
117.5°	3217.2	3133.2	3067.5	3045.6	3005.4	2972.5	2968.9	2961.6	2936.0	2892.2	2706.0
120°	3155.1	3089.4	3023.7	2976.2	2961.6	2957.9	2957.9	2936.0	2943.3	2906.8	2720.6
122.5°	3056.5	3005.4	2950.6	2928.7	2866.6	2881.2	2888.5	2873.9	2903.1	2877.6	2702.3
125°	2998.1	2947.0	2877.6	2844.7	2833.8	2819.2	2833.8	2808.2	2822.8	2804.6	2669.4
127.5°	2899.5	2833.8	2797.2	2771.7	2764.4	2713.3	2738.8	2742.5	2746.1	2716.9	2596.4
130°	2793.6	2757.1	2673.1	2684.0	2684.0	2665.8	2669.4	2654.8	2647.5	2622.0	2483.2
132.5°	2716.9	2669.4	2614.7	2600.1	2585.4	2581.8	2581.8	2556.2	2556.2	2523.4	2432.1
135°	2581.8	2548.9	2527.0	2512.4	2508.8	2494.2	2494.2	2468.6	2464.9	2435.7	2344.4
137.5°	2486.8	2454.0	2435.7	2424.8	2413.8	2388.2	2402.9	2380.9	2359.0	2351.7	2264.1
140°	2391.9	2366.3	2351.7	2333.5	2329.8	2315.2	2315.2	2289.7	2282.3	2249.5	2161.8
142.5°	2311.6	2297.0	2267.7	2260.4	2234.9	2238.5	2220.3	2223.9	2194.7	2158.2	2088.8
145°	2202.0	2205.7	2191.1	2176.4	2172.8	2150.9	2154.5	2132.6	2114.4	2088.8	2034.0
147.5°	2143.6	2143.6	2121.7	2103.4	2088.8	2085.2	2066.9	2070.5	2041.3	2004.8	1968.3
150°	2066.9	2059.6	2037.7	2026.7	2015.8	2015.8	1997.5	1986.6	1964.6	1953.7	1906.2
152.5°	2012.1	1993.9	1982.9	1961.0	1961.0	1942.7	1928.1	1920.8	1902.6	1880.7	1844.1
155°	1935.4	1928.1	1913.5	1909.9	1895.3	1880.7	1855.1	1851.4	1840.5	1818.6	1785.7
157.5°	1873.4	1884.3	1862.4	1851.4	1829.5	1825.9	1800.3	1804.0	1782.1	1767.5	1738.2
160°	1844.1	1825.9	1804.0	1800.3	1793.0	1763.8	1760.1	1749.2	1734.6	1723.6	1687.1
162.5°	1778.4	1774.8	1763.8	1756.5	1730.9	1730.9	1687.1	1705.4	1694.4	1683.5	1665.2
165°	1741.9	1745.5	1720.0	1712.7	1705.4	1690.8	1679.8	1668.9	1657.9	1650.6	1632.3
167.5°	1694.4	1687.1	1679.8	1665.2	1668.9	1657.9	1646.9	1639.6	1632.3	1625.0	1610.4
170°	1654.2	1650.6	1643.3	1632.3	1636.0	1625.0	1625.0	1610.4	1606.8	1603.1	1584.9
172.5°	1621.4	1621.4	1614.1	1614.1	1610.4	1599.5	1592.2	1584.9	1584.9	1577.6	1573.9
175°	1588.5	1592.2	1588.5	1584.9	1584.9	1577.6	1577.6	1581.2	1573.9	1573.9	1563.0
177.5°	1563.0	1563.0	1563.0	1563.0	1563.0	1563.0	1563.0	1559.3	1563.0	1559.3	1548.3
180°	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6



TEST NUMBER: P508441

CATALOG NUMBER: ASYX-X-S2-X-U-W-L35-1-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°	47.5	51.1	54.8	58.4	69.4	65.7	76.7	80.3	87.6	102.2	105.9
95°	193.5	193.5	189.9	189.9	182.6	182.6	178.9	175.3	193.5	215.5	244.7
97.5°	398.0	339.6	310.4	299.4	295.8	292.1	284.8	273.9	281.2	299.4	336.0
100°	671.9	555.1	460.1	405.3	394.4	376.1	368.8	365.2	365.2	401.7	460.1
102.5°	869.1	697.5	573.3	493.0	471.1	452.8	441.9	441.9	449.2	493.0	558.7
105°	1099.2	880.1	690.2	584.3	566.0	540.5	522.2	525.9	533.2	573.3	631.8
107.5°	1376.7	1113.8	887.4	723.0	682.9	646.4	617.1	617.1	620.8	646.4	690.2
110°	1793.0	1453.4	1113.8	869.1	803.4	763.2	693.8	693.8	690.2	708.4	737.7
112.5°	2110.7	1716.3	1329.2	1015.2	923.9	858.2	785.1	763.2	763.2	766.9	785.1
115°	2300.6	1891.6	1479.0	1150.3	1029.8	949.5	858.2	832.6	821.6	828.9	821.6
117.5°	2410.2	1997.5	1606.8	1248.9	1135.7	1044.4	931.2	898.3	880.1	894.7	891.0
120°	2464.9	2092.5	1709.0	1351.2	1234.3	1128.4	1007.9	975.0	960.4	960.4	964.1
122.5°	2472.2	2143.6	1767.5	1442.4	1325.6	1223.3	1099.2	1051.7	1037.1	1040.8	1040.8
125°	2446.7	2136.3	1822.2	1515.5	1402.3	1300.0	1172.2	1132.0	1099.2	1113.8	1117.4
127.5°	2406.5	2118.0	1855.1	1573.9	1471.7	1380.4	1263.5	1216.0	1186.8	1194.1	1190.5
130°	2348.1	2096.1	1884.3	1625.0	1537.4	1446.1	1343.8	1300.0	1259.9	1263.5	1267.2
132.5°	2289.7	2088.8	1898.9	1665.2	1592.2	1515.5	1413.2	1369.4	1332.9	1336.5	1336.5
135°	2227.6	2070.5	1880.7	1690.8	1654.2	1573.9	1489.9	1442.4	1413.2	1413.2	1405.9
137.5°	2161.8	2026.7	1895.3	1741.9	1690.8	1625.0	1541.0	1504.5	1475.3	1471.7	1468.0
140°	2103.4	1979.3	1877.0	1752.8	1716.3	1665.2	1595.8	1566.6	1526.4	1519.1	1541.0
142.5°	2045.0	1957.3	1895.3	1778.4	1741.9	1698.1	1646.9	1606.8	1577.6	1570.3	1566.6
145°	1986.6	1935.4	1866.0	1771.1	1756.5	1712.7	1657.9	1646.9	1614.1	1606.8	1606.8
147.5°	1928.1	1884.3	1833.2	1767.5	1767.5	1730.9	1705.4	1672.5	1646.9	1632.3	1632.3
150°	1877.0	1840.5	1814.9	1763.8	1760.1	1730.9	1709.0	1694.4	1665.2	1657.9	1654.2
152.5°	1829.5	1796.7	1774.8	1741.9	1738.2	1698.1	1705.4	1690.8	1661.5	1654.2	1654.2
155°	1771.1	1767.5	1741.9	1709.0	1723.6	1701.7	1683.5	1701.7	1657.9	1665.2	1665.2
157.5°	1730.9	1727.3	1723.6	1690.8	1694.4	1683.5	1672.5	1687.1	1650.6	1654.2	1654.2
160°	1687.1	1679.8	1679.8	1650.6	1672.5	1650.6	1654.2	1661.5	1639.6	1643.3	1654.2
162.5°	1665.2	1650.6	1650.6	1639.6	1646.9	1639.6	1621.4	1646.9	1643.3	1636.0	1639.6
165°	1628.7	1625.0	1632.3	1610.4	1628.7	1606.8	1614.1	1625.0	1617.7	1621.4	1625.0
167.5°	1606.8	1603.1	1606.8	1595.8	1606.8	1599.5	1595.8	1610.4	1603.1	1606.8	1610.4
170°	1588.5	1588.5	1592.2	1581.2	1592.2	1581.2	1592.2	1592.2	1588.5	1588.5	1595.8
172.5°	1581.2	1570.3	1581.2	1563.0	1581.2	1559.3	1566.6	1577.6	1573.9	1570.3	1570.3
175°	1566.6	1563.0	1573.9	1555.6	1566.6	1555.6	1555.6	1566.6	1563.0	1559.3	1573.9
177.5°	1566.6	1555.6	1566.6	1548.3	1559.3	1552.0	1552.0	1563.0	1555.6	1555.6	1566.6
180°	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6



TEST NUMBER: P508441

CATALOG NUMBER: ASYX-X-S2-X-U-W-L35-1-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°	105.9	124.2	127.8	138.8	135.1	113.2	98.6	80.3	69.4
95°	277.5	306.7	336.0	332.3	343.3	321.4	299.4	288.5	273.9
97.5°	372.5	420.0	449.2	449.2	452.8	438.2	430.9	438.2	420.0
100°	525.9	558.7	569.7	566.0	555.1	529.5	514.9	507.6	496.6
102.5°	617.1	653.7	664.6	657.3	650.0	639.1	624.5	617.1	613.5
105°	679.2	712.1	726.7	723.0	719.4	701.1	671.9	682.9	679.2
107.5°	737.7	759.6	774.2	763.2	759.6	748.6	730.4	741.3	726.7
110°	774.2	792.4	796.1	796.1	788.8	777.8	763.2	766.9	755.9
112.5°	803.4	814.3	814.3	814.3	807.0	792.4	785.1	777.8	777.8
115°	836.3	828.9	832.6	832.6	825.3	803.4	792.4	785.1	777.8
117.5°	894.7	883.7	872.8	872.8	854.5	839.9	828.9	818.0	807.0
120°	949.5	942.2	934.9	923.9	912.9	894.7	876.4	861.8	854.5
122.5°	1022.5	1004.2	993.3	1000.6	978.7	960.4	938.5	923.9	905.6
125°	1102.8	1088.2	1070.0	1062.7	1044.4	1029.8	1011.5	996.9	975.0
127.5°	1172.2	1150.3	1143.0	1139.3	1117.4	1099.2	1070.0	1059.0	1059.0
130°	1252.6	1227.0	1230.6	1212.4	1194.1	1164.9	1135.7	1135.7	1132.0
132.5°	1329.2	1300.0	1296.4	1289.1	1267.2	1245.2	1227.0	1223.3	1208.7
135°	1391.3	1369.4	1365.8	1358.5	1340.2	1318.3	1289.1	1296.4	1267.2
137.5°	1446.1	1435.1	1431.5	1416.9	1398.6	1395.0	1362.1	1358.5	1340.2
140°	1508.2	1486.3	1500.9	1482.6	1460.7	1453.4	1409.6	1416.9	1416.9
142.5°	1552.0	1541.0	1537.4	1530.1	1515.5	1500.9	1489.9	1475.3	1482.6
145°	1595.8	1588.5	1581.2	1581.2	1559.3	1552.0	1530.1	1530.1	1519.1
147.5°	1632.3	1617.7	1617.7	1610.4	1599.5	1592.2	1570.3	1581.2	1563.0
150°	1632.3	1639.6	1632.3	1632.3	1636.0	1632.3	1614.1	1606.8	1610.4
152.5°	1661.5	1650.6	1643.3	1657.9	1639.6	1650.6	1625.0	1632.3	1625.0
155°	1646.9	1654.2	1657.9	1650.6	1650.6	1650.6	1639.6	1657.9	1639.6
157.5°	1661.5	1654.2	1657.9	1654.2	1646.9	1657.9	1646.9	1661.5	1650.6
160°	1654.2	1646.9	1654.2	1650.6	1643.3	1657.9	1657.9	1668.9	1654.2
162.5°	1628.7	1636.0	1654.2	1643.3	1643.3	1668.9	1628.7	1665.2	1643.3
165°	1621.4	1625.0	1632.3	1639.6	1625.0	1636.0	1636.0	1639.6	1628.7
167.5°	1614.1	1599.5	1614.1	1614.1	1617.7	1617.7	1617.7	1625.0	1610.4
170°	1599.5	1570.3	1599.5	1599.5	1592.2	1592.2	1588.5	1610.4	1592.2
172.5°	1573.9	1566.6	1577.6	1577.6	1584.9	1581.2	1581.2	1584.9	1573.9
175°	1559.3	1563.0	1577.6	1566.6	1563.0	1566.6	1555.6	1566.6	1555.6
177.5°	1552.0	1552.0	1555.6	1559.3	1566.6	1559.3	1548.3	1559.3	1548.3
180°	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6	1555.6

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