

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: P508455

Luminaire Tested: **ASYX-X-S3-X-U-W-L27-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508455
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-S3-X-U-W-L27-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(3) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

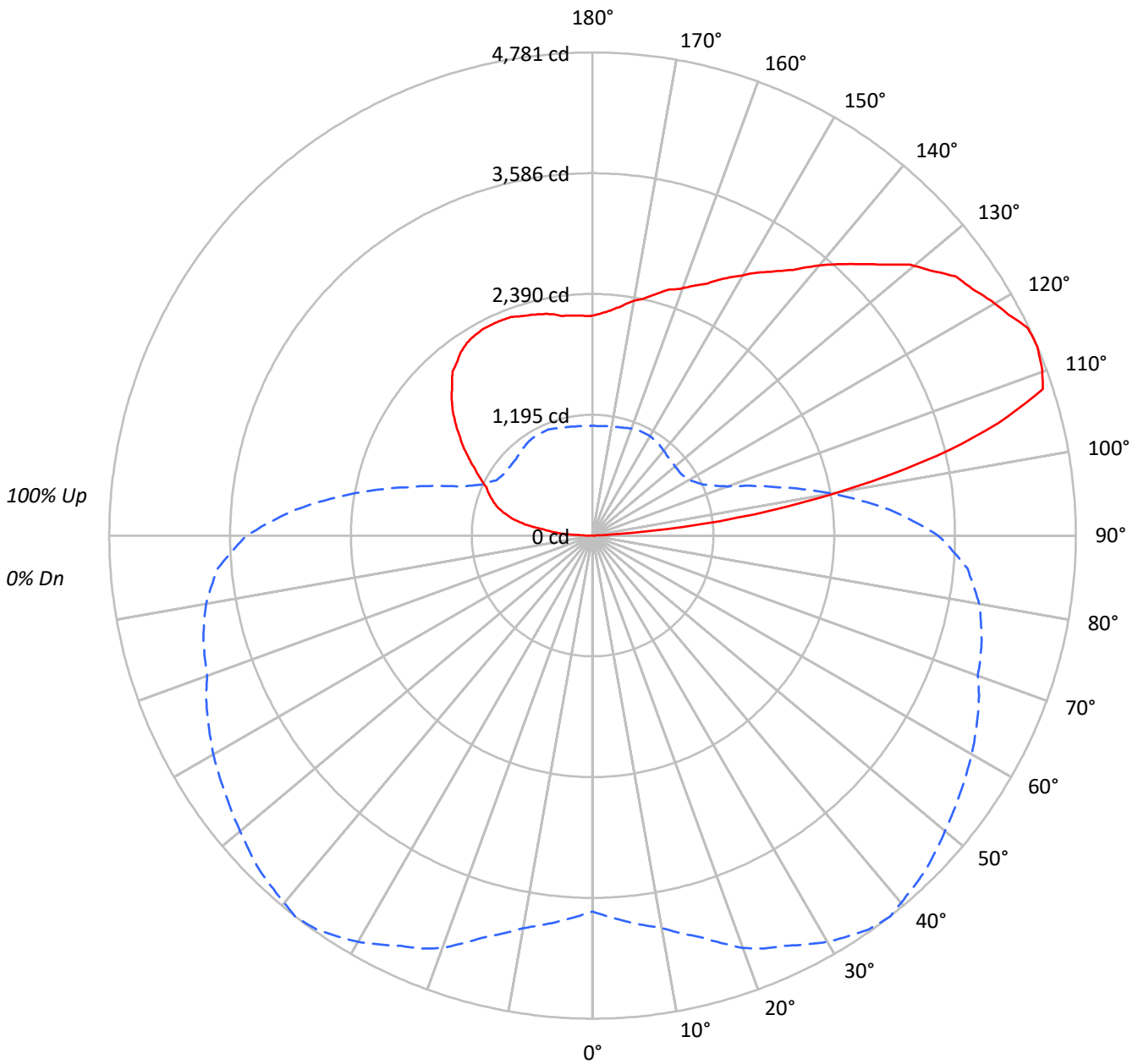
Lumens per Lamp: N/A
Luminaire Lumens: 14373.2 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
N/A
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
CIE Type: Indirect

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: P508455
CATALOG NUMBER: ASYX-X-S3-X-U-W-L27-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot



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



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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°	44477	49516	62953
100°	121321	93939	57292
105°	121533	100334	52568
110°	135382	123406	44274
115°	142796	123758	36866
120°	133863	108994	34235
125°	116947	93226	34052
130°	100599	77385	35278
135°	85345	66415	35897
140°	71619	56531	37050
145°	60545	49740	37149
150°	51524	44092	37249
155°	45119	39469	36240
160°	40635	35965	35264
165°	37260	33851	33776
170°	34613	32236	32385
175°	32382	31428	31281



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CATALOG NUMBER: ASYX-X-S3-X-U-W-L27-1-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°	588.3	4.1
100°-110°	2129.4	14.8
110°-120°	2870.4	20.0
120°-130°	2732.0	19.0
130°-140°	2276.2	15.8
140°-150°	1724.4	12.0
150°-160°	1173.5	8.2
160°-170°	666.8	4.6
170°-180°	212.1	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°	5588.1	38.9
90°-150°	12320.8	85.7
90°-180°	14373.0	100.0
0°-180°	14373.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	270	882	301	301	382	480
105°	2192	4475	1809	800	948	2378
115°	4205	4577	3644	1157	1086	4054
125°	4674	4184	3726	1554	1361	4171
135°	4205	3604	3272	1972	1769	3258
145°	3456	3073	2839	2243	2120	2186
155°	2849	2701	2492	2324	2288	1331
165°	2508	2431	2278	2263	2273	716
175°	2248	2217	2182	2176	2171	219
180°	2171	2171	2171	2171	2171	



TEST NUMBER: P508455

CATALOG NUMBER: ASYX-X-S3-X-U-W-L27-1-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°	40.8	40.8	40.8	45.9	51.0	56.1	56.1	71.4	91.7	96.8	112.1
95°	270.1	310.9	463.8	535.2	540.3	555.6	555.6	703.4	876.7	917.4	958.2
97.5°	723.8	774.7	937.8	1065.2	1248.7	1299.7	1360.9	1483.2	1671.8	1783.9	1840.0
100°	1467.9	1478.1	1564.7	1682.0	1880.7	1992.9	2130.5	2466.9	2635.1	2635.1	2573.9
102.5°	1860.4	1870.6	1947.0	2059.1	2293.6	2461.8	2619.8	3027.5	3369.0	3496.5	3547.4
105°	2191.7	2227.3	2308.9	2466.9	2752.3	2940.9	3088.7	3552.5	3950.1	4169.2	4337.4
107.5°	2614.7	2670.8	2808.4	2991.9	3333.4	3552.5	3741.1	4118.3	4464.9	4684.0	4678.9
110°	3226.3	3256.9	3399.6	3639.2	3934.8	4108.1	4225.3	4490.3	4724.8	4745.2	4755.4
112.5°	3720.7	3832.9	3945.0	4113.2	4342.5	4424.1	4480.2	4643.3	4760.5	4780.9	4745.2
115°	4204.9	4245.7	4301.8	4413.9	4520.9	4602.5	4612.7	4699.3	4724.8	4770.7	4689.1
117.5°	4505.6	4526.0	4531.1	4571.9	4628.0	4673.8	4663.6	4689.1	4719.7	4658.5	4617.8
120°	4663.6	4684.0	4648.4	4663.6	4678.9	4689.1	4668.7	4678.9	4622.9	4577.0	4531.1
122.5°	4724.8	4719.7	4684.0	4684.0	4663.6	4658.5	4617.8	4582.1	4541.3	4480.2	4424.1
125°	4673.8	4694.2	4648.4	4612.7	4566.8	4643.3	4541.3	4505.6	4434.3	4413.9	4306.9
127.5°	4607.6	4648.4	4571.9	4536.2	4490.3	4475.1	4413.9	4362.9	4312.0	4255.9	4184.5
130°	4505.6	4520.9	4449.6	4413.9	4368.0	4322.2	4312.0	4199.8	4164.1	4128.5	4031.6
132.5°	4403.7	4378.2	4306.9	4261.0	4204.9	4179.4	4154.0	4057.1	4006.1	3929.7	3878.7
135°	4204.9	4210.0	4143.8	4092.8	4016.3	4016.3	3970.5	3899.1	3832.9	3766.6	3700.3
137.5°	4016.3	4052.0	3955.2	3909.3	3868.5	3837.9	3776.8	3710.5	3639.2	3613.7	3562.7
140°	3822.7	3827.8	3751.3	3710.5	3679.9	3623.9	3588.2	3527.0	3501.6	3455.7	3384.3
142.5°	3654.5	3634.1	3572.9	3527.0	3496.5	3455.7	3435.3	3374.1	3333.4	3292.6	3267.1
145°	3455.7	3450.6	3379.2	3348.6	3323.2	3307.9	3272.2	3226.3	3205.9	3170.3	3170.3
147.5°	3287.5	3262.0	3221.2	3185.5	3155.0	3139.7	3139.7	3058.1	3073.4	3068.3	3022.4
150°	3109.1	3104.0	3047.9	3032.6	3007.2	3017.4	3007.2	2971.5	2971.5	2951.1	2920.5
152.5°	2966.4	2966.4	2920.5	2910.3	2900.1	2895.0	2874.6	2859.3	2859.3	2854.3	2818.6
155°	2849.2	2849.2	2813.5	2808.4	2793.1	2788.0	2777.8	2762.5	2752.3	2742.1	2711.5
157.5°	2752.3	2747.2	2706.4	2711.5	2696.2	2696.2	2691.2	2660.6	2670.8	2665.7	2645.3
160°	2660.6	2655.5	2614.7	2630.0	2619.8	2619.8	2619.8	2599.4	2589.2	2589.2	2543.3
162.5°	2579.0	2589.2	2548.4	2543.3	2548.4	2548.4	2528.1	2512.8	2528.1	2543.3	2497.5
165°	2507.7	2497.5	2482.2	2477.1	2466.9	2456.7	2466.9	2456.7	2446.5	2466.9	2451.6
167.5°	2436.3	2446.5	2415.9	2405.7	2405.7	2426.1	2410.8	2390.4	2400.6	2395.5	2365.0
170°	2375.1	2385.3	2344.6	2344.6	2344.6	2344.6	2329.3	2314.0	2339.5	2349.7	2314.0
172.5°	2314.0	2329.3	2293.6	2288.5	2283.4	2293.6	2283.4	2268.1	2298.7	2283.4	2268.1
175°	2247.7	2273.2	2237.5	2232.4	2242.6	2242.6	2232.4	2222.2	2242.6	2232.4	2222.2
177.5°	2217.1	2217.1	2181.5	2186.6	2186.6	2181.5	2196.8	2191.7	2196.8	2196.8	2217.1
180°	2171.3	2171.3	2171.3	2171.3	2171.3	2171.3	2171.3	2171.3	2171.3	2171.3	2171.3



TEST NUMBER: P508455

CATALOG NUMBER: ASYX-X-S3-X-U-W-L27-1-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°	117.2	137.6	147.8	81.6	81.6	91.7	86.6	76.5	66.3	61.2	61.2
95°	881.8	835.9	861.4	774.7	672.8	591.2	586.1	591.2	407.8	305.8	300.7
97.5°	1896.0	1875.7	1717.6	1473.0	1401.6	1406.7	1320.1	1095.8	917.4	784.9	677.9
100°	2466.9	2400.6	2329.3	2380.2	2237.5	2125.4	1967.4	1768.6	1559.6	1381.3	1136.6
102.5°	3516.8	3414.9	3155.0	2869.5	2584.1	2482.2	2365.0	2140.7	1921.5	1712.6	1462.8
105°	4475.1	4301.8	3863.4	3455.7	3068.3	2951.1	2798.2	2548.4	2293.6	2084.6	1809.4
107.5°	4704.4	4577.0	4332.3	4057.1	3720.7	3527.0	3384.3	3114.2	2874.6	2589.2	2273.2
110°	4724.8	4597.4	4444.5	4255.9	4092.8	3980.7	3888.9	3685.0	3511.7	3262.0	2940.9
112.5°	4668.7	4551.5	4439.4	4332.3	4204.9	4138.7	4057.1	3985.8	3883.8	3720.7	3420.0
115°	4577.0	4475.1	4373.1	4281.4	4220.2	4189.6	4148.9	4092.8	4036.7	3914.4	3644.3
117.5°	4490.3	4373.1	4281.4	4250.8	4194.7	4148.9	4143.8	4133.6	4097.9	4036.7	3776.8
120°	4403.7	4312.0	4220.2	4154.0	4133.6	4128.5	4128.5	4097.9	4108.1	4057.1	3797.2
122.5°	4266.1	4194.7	4118.3	4087.7	4001.0	4021.4	4031.6	4011.2	4052.0	4016.3	3771.7
125°	4184.5	4113.2	4016.3	3970.5	3955.2	3934.8	3955.2	3919.5	3939.9	3914.4	3725.8
127.5°	4046.9	3955.2	3904.2	3868.5	3858.3	3787.0	3822.7	3827.8	3832.9	3792.1	3623.9
130°	3899.1	3848.1	3730.9	3746.2	3746.2	3720.7	3725.8	3705.4	3695.2	3659.6	3465.9
132.5°	3792.1	3725.8	3649.4	3629.0	3608.6	3603.5	3603.5	3567.8	3567.8	3521.9	3394.5
135°	3603.5	3557.6	3527.0	3506.7	3501.6	3481.2	3481.2	3445.5	3440.4	3399.6	3272.2
137.5°	3471.0	3425.1	3399.6	3384.3	3369.0	3333.4	3353.7	3323.2	3292.6	3282.4	3160.1
140°	3338.5	3302.8	3282.4	3256.9	3251.8	3231.4	3231.4	3195.7	3185.5	3139.7	3017.4
142.5°	3226.3	3205.9	3165.2	3155.0	3119.3	3124.4	3098.9	3104.0	3063.2	3012.3	2915.4
145°	3073.4	3078.5	3058.1	3037.7	3032.6	3002.1	3007.2	2976.6	2951.1	2915.4	2839.0
147.5°	2991.9	2991.9	2961.3	2935.8	2915.4	2910.3	2884.8	2889.9	2849.2	2798.2	2747.2
150°	2884.8	2874.6	2844.1	2828.8	2813.5	2813.5	2788.0	2772.7	2742.1	2726.8	2660.6
152.5°	2808.4	2782.9	2767.6	2737.0	2737.0	2711.5	2691.2	2681.0	2655.5	2624.9	2573.9
155°	2701.3	2691.2	2670.8	2665.7	2645.3	2624.9	2589.2	2584.1	2568.8	2538.2	2492.4
157.5°	2614.7	2630.0	2599.4	2584.1	2553.5	2548.4	2512.8	2517.9	2487.3	2466.9	2426.1
160°	2573.9	2548.4	2517.9	2512.8	2502.6	2461.8	2456.7	2441.4	2421.0	2405.7	2354.8
162.5°	2482.2	2477.1	2461.8	2451.6	2415.9	2415.9	2354.8	2380.2	2365.0	2349.7	2324.2
165°	2431.2	2436.3	2400.6	2390.4	2380.2	2359.9	2344.6	2329.3	2314.0	2303.8	2278.3
167.5°	2365.0	2354.8	2344.6	2324.2	2329.3	2314.0	2298.7	2288.5	2278.3	2268.1	2247.7
170°	2308.9	2303.8	2293.6	2278.3	2283.4	2268.1	2268.1	2247.7	2242.6	2237.5	2212.0
172.5°	2263.0	2263.0	2252.8	2252.8	2247.7	2232.4	2222.2	2212.0	2212.0	2201.9	2196.8
175°	2217.1	2222.2	2217.1	2212.0	2212.0	2201.9	2201.9	2206.9	2196.8	2196.8	2181.5
177.5°	2181.5	2181.5	2181.5	2181.5	2181.5	2181.5	2181.5	2176.4	2181.5	2176.4	2161.1
180°	2171.3	2171.3	2171.3	2171.3	2171.3	2171.3	2171.3	2171.3	2171.3	2171.3	2171.3



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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°	66.3	71.4	76.5	81.6	96.8	91.7	107.0	112.1	122.3	142.7	147.8
95°	270.1	270.1	265.0	265.0	254.8	254.8	249.7	244.7	270.1	300.7	341.5
97.5°	555.6	474.0	433.2	417.9	412.8	407.8	397.6	382.3	392.5	417.9	468.9
100°	937.8	774.7	642.2	565.8	550.5	525.0	514.8	509.7	509.7	560.7	642.2
102.5°	1213.1	973.5	800.2	688.1	657.5	632.0	616.7	616.7	626.9	688.1	779.8
105°	1534.2	1228.3	963.3	815.5	790.0	754.3	728.9	734.0	744.1	800.2	881.8
107.5°	1921.5	1554.5	1238.5	1009.2	953.1	902.1	861.4	861.4	866.5	902.1	963.3
110°	2502.6	2028.6	1554.5	1213.1	1121.3	1065.2	968.4	968.4	963.3	988.8	1029.6
112.5°	2946.0	2395.5	1855.3	1416.9	1289.5	1197.8	1095.8	1065.2	1065.2	1070.3	1095.8
115°	3211.0	2640.2	2064.2	1605.5	1437.3	1325.2	1197.8	1162.1	1146.8	1157.0	1146.8
117.5°	3363.9	2788.0	2242.6	1743.1	1585.1	1457.7	1299.7	1253.8	1228.3	1248.7	1243.6
120°	3440.4	2920.5	2385.3	1885.8	1722.7	1574.9	1406.7	1360.9	1340.5	1340.5	1345.6
122.5°	3450.6	2991.9	2466.9	2013.3	1850.2	1707.5	1534.2	1467.9	1447.5	1452.6	1452.6
125°	3414.9	2981.7	2543.3	2115.2	1957.2	1814.5	1636.1	1580.0	1534.2	1554.5	1559.6
127.5°	3358.8	2956.2	2589.2	2196.8	2054.0	1926.6	1763.5	1697.3	1656.5	1666.7	1661.6
130°	3277.3	2925.6	2630.0	2268.1	2145.8	2018.4	1875.7	1814.5	1758.4	1763.5	1768.6
132.5°	3195.7	2915.4	2650.4	2324.2	2222.2	2115.2	1972.5	1911.3	1860.4	1865.5	1865.5
135°	3109.1	2889.9	2624.9	2359.9	2308.9	2196.8	2079.5	2013.3	1972.5	1972.5	1962.3
137.5°	3017.4	2828.8	2645.3	2431.2	2359.9	2268.1	2150.9	2099.9	2059.1	2054.0	2048.9
140°	2935.8	2762.5	2619.8	2446.5	2395.5	2324.2	2227.3	2186.6	2130.5	2120.3	2150.9
142.5°	2854.3	2731.9	2645.3	2482.2	2431.2	2370.0	2298.7	2242.6	2201.9	2191.7	2186.6
145°	2772.7	2701.3	2604.5	2472.0	2451.6	2390.4	2314.0	2298.7	2252.8	2242.6	2242.6
147.5°	2691.2	2630.0	2558.6	2466.9	2466.9	2415.9	2380.2	2334.4	2298.7	2278.3	2278.3
150°	2619.8	2568.8	2533.1	2461.8	2456.7	2415.9	2385.3	2365.0	2324.2	2314.0	2308.9
152.5°	2553.5	2507.7	2477.1	2431.2	2426.1	2370.0	2380.2	2359.9	2319.1	2308.9	2308.9
155°	2472.0	2466.9	2431.2	2385.3	2405.7	2375.1	2349.7	2375.1	2314.0	2324.2	2324.2
157.5°	2415.9	2410.8	2405.7	2359.9	2365.0	2349.7	2334.4	2354.8	2303.8	2308.9	2308.9
160°	2354.8	2344.6	2344.6	2303.8	2334.4	2303.8	2308.9	2319.1	2288.5	2293.6	2308.9
162.5°	2324.2	2303.8	2303.8	2288.5	2298.7	2288.5	2263.0	2298.7	2293.6	2283.4	2288.5
165°	2273.2	2268.1	2278.3	2247.7	2273.2	2242.6	2252.8	2268.1	2257.9	2263.0	2268.1
167.5°	2242.6	2237.5	2242.6	2227.3	2242.6	2232.4	2227.3	2247.7	2237.5	2242.6	2247.7
170°	2217.1	2217.1	2222.2	2206.9	2222.2	2206.9	2222.2	2222.2	2217.1	2217.1	2227.3
172.5°	2206.9	2191.7	2206.9	2181.5	2206.9	2176.4	2186.6	2201.9	2196.8	2191.7	2191.7
175°	2186.6	2181.5	2196.8	2171.3	2186.6	2171.3	2171.3	2186.6	2181.5	2176.4	2196.8
177.5°	2186.6	2171.3	2186.6	2161.1	2176.4	2166.2	2166.2	2181.5	2171.3	2171.3	2186.6
180°	2171.3	2171.3	2171.3	2171.3	2171.3	2171.3	2171.3	2171.3	2171.3	2171.3	2171.3



TEST NUMBER: P508455

CATALOG NUMBER: ASYX-X-S3-X-U-W-L27-1-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°	147.8	173.3	178.4	193.7	188.6	158.0	137.6	112.1	96.8
95°	387.4	428.1	468.9	463.8	479.1	448.5	417.9	402.7	382.3
97.5°	519.9	586.1	626.9	626.9	632.0	611.6	601.4	611.6	586.1
100°	734.0	779.8	795.1	790.0	774.7	739.0	718.7	708.5	693.2
102.5°	861.4	912.3	927.6	917.4	907.2	892.0	871.6	861.4	856.3
105°	948.0	993.9	1014.3	1009.2	1004.1	978.6	937.8	953.1	948.0
107.5°	1029.6	1060.2	1080.5	1065.2	1060.2	1044.9	1019.4	1034.7	1014.3
110°	1080.5	1106.0	1111.1	1111.1	1100.9	1085.6	1065.2	1070.3	1055.1
112.5°	1121.3	1136.6	1136.6	1136.6	1126.4	1106.0	1095.8	1085.6	1085.6
115°	1167.2	1157.0	1162.1	1162.1	1151.9	1121.3	1106.0	1095.8	1085.6
117.5°	1248.7	1233.4	1218.2	1218.2	1192.7	1172.3	1157.0	1141.7	1126.4
120°	1325.2	1315.0	1304.8	1289.5	1274.2	1248.7	1223.3	1202.9	1192.7
122.5°	1427.1	1401.6	1386.4	1396.5	1366.0	1340.5	1309.9	1289.5	1264.0
125°	1539.3	1518.9	1493.4	1483.2	1457.7	1437.3	1411.8	1391.4	1360.9
127.5°	1636.1	1605.5	1595.3	1590.2	1559.6	1534.2	1493.4	1478.1	1478.1
130°	1748.2	1712.6	1717.6	1692.2	1666.7	1625.9	1585.1	1585.1	1580.0
132.5°	1855.3	1814.5	1809.4	1799.2	1768.6	1738.0	1712.6	1707.5	1687.1
135°	1941.9	1911.3	1906.2	1896.0	1870.6	1840.0	1799.2	1809.4	1768.6
137.5°	2018.4	2003.1	1998.0	1977.6	1952.1	1947.0	1901.1	1896.0	1870.6
140°	2105.0	2074.4	2094.8	2069.3	2038.8	2028.6	1967.4	1977.6	1977.6
142.5°	2166.2	2150.9	2145.8	2135.6	2115.2	2094.8	2079.5	2059.1	2069.3
145°	2227.3	2217.1	2206.9	2206.9	2176.4	2166.2	2135.6	2135.6	2120.3
147.5°	2278.3	2257.9	2257.9	2247.7	2232.4	2222.2	2191.7	2206.9	2181.5
150°	2278.3	2288.5	2278.3	2278.3	2283.4	2278.3	2252.8	2242.6	2247.7
152.5°	2319.1	2303.8	2293.6	2314.0	2288.5	2303.8	2268.1	2278.3	2268.1
155°	2298.7	2308.9	2314.0	2303.8	2303.8	2303.8	2288.5	2314.0	2288.5
157.5°	2319.1	2308.9	2314.0	2308.9	2298.7	2314.0	2298.7	2319.1	2303.8
160°	2308.9	2298.7	2308.9	2303.8	2293.6	2314.0	2314.0	2329.3	2308.9
162.5°	2273.2	2283.4	2308.9	2293.6	2293.6	2329.3	2273.2	2324.2	2293.6
165°	2263.0	2268.1	2278.3	2288.5	2268.1	2283.4	2283.4	2288.5	2273.2
167.5°	2252.8	2232.4	2252.8	2252.8	2257.9	2257.9	2257.9	2268.1	2247.7
170°	2232.4	2191.7	2232.4	2232.4	2222.2	2222.2	2217.1	2247.7	2222.2
172.5°	2196.8	2186.6	2201.9	2201.9	2212.0	2206.9	2206.9	2212.0	2196.8
175°	2176.4	2181.5	2201.9	2186.6	2181.5	2186.6	2171.3	2186.6	2171.3
177.5°	2166.2	2166.2	2171.3	2176.4	2186.6	2176.4	2161.1	2176.4	2161.1
180°	2171.3	2171.3	2171.3	2171.3	2171.3	2171.3	2171.3	2171.3	2171.3

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