

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: P508456

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

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508456
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-L30-1-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14905.5 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
N/A
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
CIE Type: Indirect

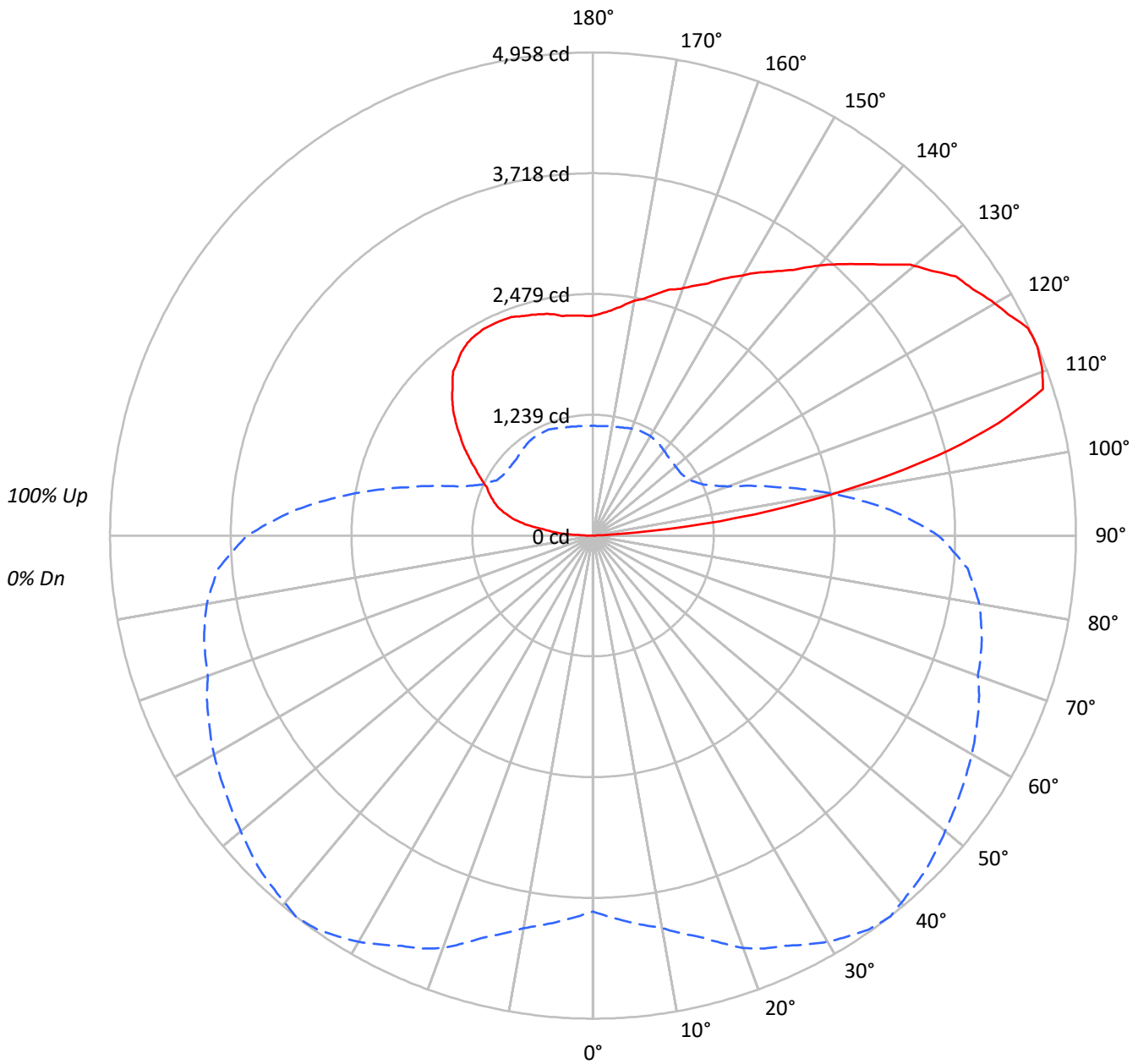
Input Watts (W): 160.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P508456

CATALOG NUMBER: ASYX-X-S3-X-U-W-L30-1-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			
RC	80								50				30				10			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	46124	51360	65275
100°	125817	97419	59408
105°	126030	104049	54514
110°	140397	127976	45911
115°	148087	128340	38232
120°	138823	113030	35501
125°	121278	96679	35313
130°	104326	80250	36586
135°	88508	68875	37226
140°	74270	58624	38422
145°	62788	51582	38524
150°	53432	45724	38630
155°	46789	40930	37583
160°	42140	37297	36570
165°	38639	35105	35027
170°	35895	33431	33584
175°	33582	32592	32440



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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°	610.1	4.1
100°-110°	2208.2	14.8
110°-120°	2976.8	20.0
120°-130°	2833.2	19.0
130°-140°	2360.6	15.8
140°-150°	1788.3	12.0
150°-160°	1217.0	8.2
160°-170°	691.5	4.6
170°-180°	220.0	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°	5795.1	38.9
90°-150°	12777.1	85.7
90°-180°	14906.0	100.0
0°-180°	14905.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	280	914	312	312	396	498
105°	2273	4641	1876	830	983	2466
115°	4361	4746	3779	1200	1126	4205
125°	4847	4340	3864	1612	1411	4326
135°	4361	3737	3393	2046	1834	3379
145°	3584	3187	2944	2326	2199	2267
155°	2955	2801	2585	2410	2373	1381
165°	2600	2521	2363	2347	2357	742
175°	2331	2299	2262	2257	2252	227
180°	2252	2252	2252	2252	2252	



TEST NUMBER: P508456

CATALOG NUMBER: ASYX-X-S3-X-U-W-L30-1-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°	42.3	42.3	42.3	47.6	52.9	58.1	58.1	74.0	95.1	100.4	116.3
95°	280.1	322.4	481.0	555.0	560.3	576.1	576.1	729.4	909.1	951.4	993.7
97.5°	750.6	803.4	972.6	1104.7	1295.0	1347.8	1411.3	1538.1	1733.7	1850.0	1908.1
100°	1522.3	1532.8	1622.7	1744.3	1950.4	2066.7	2209.4	2558.3	2732.7	2732.7	2669.3
102.5°	1929.3	1939.8	2019.1	2135.4	2378.5	2553.0	2716.8	3139.7	3493.8	3626.0	3678.8
105°	2272.8	2309.8	2394.4	2558.3	2854.3	3049.8	3203.1	3684.1	4096.4	4323.7	4498.1
107.5°	2711.5	2769.7	2912.4	3102.7	3456.8	3684.1	3879.7	4270.8	4630.2	4857.5	4852.2
110°	3345.8	3377.5	3525.5	3774.0	4080.5	4260.2	4381.8	4656.7	4899.8	4920.9	4931.5
112.5°	3858.5	3974.8	4091.1	4265.5	4503.4	4587.9	4646.1	4815.2	4936.8	4957.9	4920.9
115°	4360.7	4402.9	4461.1	4577.4	4688.4	4772.9	4783.5	4873.4	4899.8	4947.4	4862.8
117.5°	4672.5	4693.7	4698.9	4741.2	4799.4	4846.9	4836.4	4862.8	4894.5	4831.1	4788.8
120°	4836.4	4857.5	4820.5	4836.4	4852.2	4862.8	4841.7	4852.2	4794.1	4746.5	4698.9
122.5°	4899.8	4894.5	4857.5	4857.5	4836.4	4831.1	4788.8	4751.8	4709.5	4646.1	4587.9
125°	4846.9	4868.1	4820.5	4783.5	4735.9	4815.2	4709.5	4672.5	4598.5	4577.4	4466.4
127.5°	4778.2	4820.5	4741.2	4704.2	4656.7	4640.8	4577.4	4524.5	4471.7	4413.5	4339.5
130°	4672.5	4688.4	4614.4	4577.4	4529.8	4482.2	4471.7	4355.4	4318.4	4281.4	4180.9
132.5°	4566.8	4540.4	4466.4	4418.8	4360.7	4334.2	4307.8	4207.4	4154.5	4075.2	4022.4
135°	4360.7	4365.9	4297.2	4244.4	4165.1	4165.1	4117.5	4043.5	3974.8	3906.1	3837.4
137.5°	4165.1	4202.1	4101.7	4054.1	4011.8	3980.1	3916.7	3848.0	3774.0	3747.5	3694.7
140°	3964.2	3969.5	3890.2	3848.0	3816.2	3758.1	3721.1	3657.7	3631.2	3583.7	3509.7
142.5°	3789.8	3768.7	3705.2	3657.7	3626.0	3583.7	3562.5	3499.1	3456.8	3414.5	3388.1
145°	3583.7	3578.4	3504.4	3472.7	3446.2	3430.4	3393.4	3345.8	3324.7	3287.7	3287.7
147.5°	3409.2	3382.8	3340.5	3303.5	3271.8	3256.0	3256.0	3171.4	3187.2	3182.0	3134.4
150°	3224.2	3219.0	3160.8	3145.0	3118.5	3129.1	3118.5	3081.5	3081.5	3060.4	3028.7
152.5°	3076.2	3076.2	3028.7	3018.1	3007.5	3002.2	2981.1	2965.2	2965.2	2960.0	2923.0
155°	2954.7	2954.7	2917.7	2912.4	2896.5	2891.3	2880.7	2864.8	2854.3	2843.7	2812.0
157.5°	2854.3	2849.0	2806.7	2812.0	2796.1	2796.1	2790.8	2759.1	2769.7	2764.4	2743.3
160°	2759.1	2753.8	2711.5	2727.4	2716.8	2716.8	2716.8	2695.7	2685.1	2685.1	2637.5
162.5°	2674.5	2685.1	2642.8	2637.5	2642.8	2642.8	2621.7	2605.8	2621.7	2637.5	2590.0
165°	2600.5	2590.0	2574.1	2568.8	2558.3	2547.7	2558.3	2547.7	2537.1	2558.3	2542.4
167.5°	2526.5	2537.1	2505.4	2494.8	2494.8	2516.0	2500.1	2479.0	2489.5	2484.3	2452.5
170°	2463.1	2473.7	2431.4	2431.4	2431.4	2431.4	2415.5	2399.7	2426.1	2436.7	2399.7
172.5°	2399.7	2415.5	2378.5	2373.3	2368.0	2378.5	2368.0	2352.1	2383.8	2368.0	2352.1
175°	2331.0	2357.4	2320.4	2315.1	2325.7	2325.7	2315.1	2304.5	2325.7	2315.1	2304.5
177.5°	2299.3	2299.3	2262.3	2267.5	2267.5	2262.3	2278.1	2272.8	2278.1	2278.1	2299.3
180°	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7



TEST NUMBER: P508456

CATALOG NUMBER: ASYX-X-S3-X-U-W-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°	121.6	142.7	153.3	84.6	84.6	95.1	89.9	79.3	68.7	63.4	63.4
95°	914.4	866.8	893.3	803.4	697.7	613.1	607.8	613.1	422.9	317.1	311.9
97.5°	1966.3	1945.1	1781.3	1527.6	1453.6	1458.8	1369.0	1136.4	951.4	814.0	703.0
100°	2558.3	2489.5	2415.5	2468.4	2320.4	2204.1	2040.3	1834.1	1617.4	1432.4	1178.7
102.5°	3647.1	3541.4	3271.8	2975.8	2679.8	2574.1	2452.5	2220.0	1992.7	1776.0	1517.0
105°	4640.8	4461.1	4006.5	3583.7	3182.0	3060.4	2901.8	2642.8	2378.5	2161.8	1876.4
107.5°	4878.7	4746.5	4492.8	4207.4	3858.5	3657.7	3509.7	3229.5	2981.1	2685.1	2357.4
110°	4899.8	4767.7	4609.1	4413.5	4244.4	4128.1	4033.0	3821.5	3641.8	3382.8	3049.8
112.5°	4841.7	4720.1	4603.8	4492.8	4360.7	4291.9	4207.4	4133.4	4027.7	3858.5	3546.7
115°	4746.5	4640.8	4535.1	4439.9	4376.5	4344.8	4302.5	4244.4	4186.2	4059.4	3779.2
117.5°	4656.7	4535.1	4439.9	4408.2	4350.1	4302.5	4297.2	4286.7	4249.7	4186.2	3916.7
120°	4566.8	4471.7	4376.5	4307.8	4286.7	4281.4	4281.4	4249.7	4260.2	4207.4	3937.8
122.5°	4424.1	4350.1	4270.8	4239.1	4149.2	4170.4	4180.9	4159.8	4202.1	4165.1	3911.4
125°	4339.5	4265.5	4165.1	4117.5	4101.7	4080.5	4101.7	4064.7	4085.8	4059.4	3863.8
127.5°	4196.8	4101.7	4048.8	4011.8	4001.2	3927.2	3964.2	3969.5	3974.8	3932.5	3758.1
130°	4043.5	3990.7	3869.1	3885.0	3885.0	3858.5	3863.8	3842.7	3832.1	3795.1	3594.2
132.5°	3932.5	3863.8	3784.5	3763.4	3742.2	3737.0	3737.0	3700.0	3700.0	3652.4	3520.2
135°	3737.0	3689.4	3657.7	3636.5	3631.2	3610.1	3610.1	3573.1	3567.8	3525.5	3393.4
137.5°	3599.5	3552.0	3525.5	3509.7	3493.8	3456.8	3478.0	3446.2	3414.5	3404.0	3277.1
140°	3462.1	3425.1	3404.0	3377.5	3372.2	3351.1	3351.1	3314.1	3303.5	3256.0	3129.1
142.5°	3345.8	3324.7	3282.4	3271.8	3234.8	3240.1	3213.7	3219.0	3176.7	3123.8	3023.4
145°	3187.2	3192.5	3171.4	3150.2	3145.0	3113.2	3118.5	3086.8	3060.4	3023.4	2944.1
147.5°	3102.7	3102.7	3071.0	3044.5	3023.4	3018.1	2991.7	2997.0	2954.7	2901.8	2849.0
150°	2991.7	2981.1	2949.4	2933.5	2917.7	2917.7	2891.3	2875.4	2843.7	2827.8	2759.1
152.5°	2912.4	2886.0	2870.1	2838.4	2838.4	2812.0	2790.8	2780.3	2753.8	2722.1	2669.3
155°	2801.4	2790.8	2769.7	2764.4	2743.3	2722.1	2685.1	2679.8	2664.0	2632.3	2584.7
157.5°	2711.5	2727.4	2695.7	2679.8	2648.1	2642.8	2605.8	2611.1	2579.4	2558.3	2516.0
160°	2669.3	2642.8	2611.1	2605.8	2595.3	2553.0	2547.7	2531.8	2510.7	2494.8	2442.0
162.5°	2574.1	2568.8	2553.0	2542.4	2505.4	2505.4	2442.0	2468.4	2452.5	2436.7	2410.3
165°	2521.3	2526.5	2489.5	2479.0	2468.4	2447.3	2431.4	2415.5	2399.7	2389.1	2362.7
167.5°	2452.5	2442.0	2431.4	2410.3	2415.5	2399.7	2383.8	2373.3	2362.7	2352.1	2331.0
170°	2394.4	2389.1	2378.5	2362.7	2368.0	2352.1	2352.1	2331.0	2325.7	2320.4	2294.0
172.5°	2346.8	2346.8	2336.3	2336.3	2331.0	2315.1	2304.5	2294.0	2294.0	2283.4	2278.1
175°	2299.3	2304.5	2299.3	2294.0	2294.0	2283.4	2283.4	2288.7	2278.1	2278.1	2262.3
177.5°	2262.3	2262.3	2262.3	2262.3	2262.3	2262.3	2262.3	2257.0	2262.3	2257.0	2241.1
180°	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7



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CATALOG NUMBER: ASYX-X-S3-X-U-W-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°	68.7	74.0	79.3	84.6	100.4	95.1	111.0	116.3	126.9	148.0	153.3
95°	280.1	280.1	274.9	274.9	264.3	264.3	259.0	253.7	280.1	311.9	354.1
97.5°	576.1	491.6	449.3	433.4	428.1	422.9	412.3	396.4	407.0	433.4	486.3
100°	972.6	803.4	666.0	586.7	570.9	544.4	533.9	528.6	528.6	581.4	666.0
102.5°	1258.0	1009.6	829.8	713.6	681.8	655.4	639.6	639.6	650.1	713.6	808.7
105°	1591.0	1273.8	999.0	845.7	819.3	782.3	755.8	761.1	771.7	829.8	914.4
107.5°	1992.7	1612.1	1284.4	1046.6	988.4	935.6	893.3	893.3	898.6	935.6	999.0
110°	2595.3	2103.7	1612.1	1258.0	1162.8	1104.7	1004.3	1004.3	999.0	1025.4	1067.7
112.5°	3055.1	2484.3	1924.0	1469.4	1337.3	1242.1	1136.4	1104.7	1104.7	1110.0	1136.4
115°	3330.0	2738.0	2140.7	1665.0	1490.6	1374.3	1242.1	1205.1	1189.3	1199.8	1189.3
117.5°	3488.5	2891.3	2325.7	1807.7	1643.8	1511.7	1347.8	1300.3	1273.8	1295.0	1289.7
120°	3567.8	3028.7	2473.7	1955.7	1786.5	1633.3	1458.8	1411.3	1390.1	1390.1	1395.4
122.5°	3578.4	3102.7	2558.3	2087.8	1918.7	1770.7	1591.0	1522.3	1501.1	1506.4	1506.4
125°	3541.4	3092.1	2637.5	2193.5	2029.7	1881.7	1696.7	1638.6	1591.0	1612.1	1617.4
127.5°	3483.2	3065.7	2685.1	2278.1	2130.1	1998.0	1828.8	1760.1	1717.8	1728.4	1723.1
130°	3398.7	3034.0	2727.4	2352.1	2225.3	2093.1	1945.1	1881.7	1823.5	1828.8	1834.1
132.5°	3314.1	3023.4	2748.5	2410.3	2304.5	2193.5	2045.5	1982.1	1929.3	1934.5	1934.5
135°	3224.2	2997.0	2722.1	2447.3	2394.4	2278.1	2156.5	2087.8	2045.5	2045.5	2035.0
137.5°	3129.1	2933.5	2743.3	2521.3	2447.3	2352.1	2230.5	2177.7	2135.4	2130.1	2124.8
140°	3044.5	2864.8	2716.8	2537.1	2484.3	2410.3	2309.8	2267.5	2209.4	2198.8	2230.5
142.5°	2960.0	2833.1	2743.3	2574.1	2521.3	2457.8	2383.8	2325.7	2283.4	2272.8	2267.5
145°	2875.4	2801.4	2701.0	2563.5	2542.4	2479.0	2399.7	2383.8	2336.3	2325.7	2325.7
147.5°	2790.8	2727.4	2653.4	2558.3	2558.3	2505.4	2468.4	2420.8	2383.8	2362.7	2362.7
150°	2716.8	2664.0	2627.0	2553.0	2547.7	2505.4	2473.7	2452.5	2410.3	2399.7	2394.4
152.5°	2648.1	2600.5	2568.8	2521.3	2516.0	2457.8	2468.4	2447.3	2405.0	2394.4	2394.4
155°	2563.5	2558.3	2521.3	2473.7	2494.8	2463.1	2436.7	2463.1	2399.7	2410.3	2410.3
157.5°	2505.4	2500.1	2494.8	2447.3	2452.5	2436.7	2420.8	2442.0	2389.1	2394.4	2394.4
160°	2442.0	2431.4	2431.4	2389.1	2420.8	2389.1	2394.4	2405.0	2373.3	2378.5	2394.4
162.5°	2410.3	2389.1	2389.1	2373.3	2383.8	2373.3	2346.8	2383.8	2378.5	2368.0	2373.3
165°	2357.4	2352.1	2362.7	2331.0	2357.4	2325.7	2336.3	2352.1	2341.5	2346.8	2352.1
167.5°	2325.7	2320.4	2325.7	2309.8	2325.7	2315.1	2309.8	2331.0	2320.4	2325.7	2331.0
170°	2299.3	2299.3	2304.5	2288.7	2304.5	2288.7	2304.5	2304.5	2299.3	2299.3	2309.8
172.5°	2288.7	2272.8	2288.7	2262.3	2288.7	2257.0	2267.5	2283.4	2278.1	2272.8	2272.8
175°	2267.5	2262.3	2278.1	2251.7	2267.5	2251.7	2251.7	2267.5	2262.3	2257.0	2278.1
177.5°	2267.5	2251.7	2267.5	2241.1	2257.0	2246.4	2246.4	2262.3	2251.7	2251.7	2267.5
180°	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7



TEST NUMBER: P508456

CATALOG NUMBER: ASYX-X-S3-X-U-W-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°	153.3	179.7	185.0	200.9	195.6	163.9	142.7	116.3	100.4
95°	401.7	444.0	486.3	481.0	496.9	465.1	433.4	417.6	396.4
97.5°	539.1	607.8	650.1	650.1	655.4	634.3	623.7	634.3	607.8
100°	761.1	808.7	824.6	819.3	803.4	766.4	745.3	734.7	718.8
102.5°	893.3	946.1	962.0	951.4	940.8	925.0	903.8	893.3	888.0
105°	983.1	1030.7	1051.8	1046.6	1041.3	1014.8	972.6	988.4	983.1
107.5°	1067.7	1099.4	1120.6	1104.7	1099.4	1083.6	1057.1	1073.0	1051.8
110°	1120.6	1147.0	1152.3	1152.3	1141.7	1125.8	1104.7	1110.0	1094.1
112.5°	1162.8	1178.7	1178.7	1178.7	1168.1	1147.0	1136.4	1125.8	1125.8
115°	1210.4	1199.8	1205.1	1205.1	1194.6	1162.8	1147.0	1136.4	1125.8
117.5°	1295.0	1279.1	1263.3	1263.3	1236.8	1215.7	1199.8	1184.0	1168.1
120°	1374.3	1363.7	1353.1	1337.3	1321.4	1295.0	1268.6	1247.4	1236.8
122.5°	1480.0	1453.6	1437.7	1448.3	1416.6	1390.1	1358.4	1337.3	1310.8
125°	1596.3	1575.1	1548.7	1538.1	1511.7	1490.6	1464.1	1443.0	1411.3
127.5°	1696.7	1665.0	1654.4	1649.1	1617.4	1591.0	1548.7	1532.8	1532.8
130°	1813.0	1776.0	1781.3	1754.8	1728.4	1686.1	1643.8	1643.8	1638.6
132.5°	1924.0	1881.7	1876.4	1865.8	1834.1	1802.4	1776.0	1770.7	1749.6
135°	2013.8	1982.1	1976.8	1966.3	1939.8	1908.1	1865.8	1876.4	1834.1
137.5°	2093.1	2077.3	2072.0	2050.8	2024.4	2019.1	1971.5	1966.3	1939.8
140°	2183.0	2151.3	2172.4	2146.0	2114.3	2103.7	2040.3	2050.8	2050.8
142.5°	2246.4	2230.5	2225.3	2214.7	2193.5	2172.4	2156.5	2135.4	2146.0
145°	2309.8	2299.3	2288.7	2288.7	2257.0	2246.4	2214.7	2214.7	2198.8
147.5°	2362.7	2341.5	2341.5	2331.0	2315.1	2304.5	2272.8	2288.7	2262.3
150°	2362.7	2373.3	2362.7	2362.7	2368.0	2362.7	2336.3	2325.7	2331.0
152.5°	2405.0	2389.1	2378.5	2399.7	2373.3	2389.1	2352.1	2362.7	2352.1
155°	2383.8	2394.4	2399.7	2389.1	2389.1	2389.1	2373.3	2399.7	2373.3
157.5°	2405.0	2394.4	2399.7	2394.4	2383.8	2399.7	2383.8	2405.0	2389.1
160°	2394.4	2383.8	2394.4	2389.1	2378.5	2399.7	2399.7	2415.5	2394.4
162.5°	2357.4	2368.0	2394.4	2378.5	2378.5	2415.5	2357.4	2410.3	2378.5
165°	2346.8	2352.1	2362.7	2373.3	2352.1	2368.0	2368.0	2373.3	2357.4
167.5°	2336.3	2315.1	2336.3	2336.3	2341.5	2341.5	2341.5	2352.1	2331.0
170°	2315.1	2272.8	2315.1	2315.1	2304.5	2304.5	2299.3	2331.0	2304.5
172.5°	2278.1	2267.5	2283.4	2283.4	2294.0	2288.7	2288.7	2294.0	2278.1
175°	2257.0	2262.3	2283.4	2267.5	2262.3	2267.5	2251.7	2267.5	2251.7
177.5°	2246.4	2246.4	2251.7	2257.0	2267.5	2257.0	2241.1	2257.0	2241.1
180°	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7	2251.7

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