

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: P508474

Luminaire Tested: **ASYX-X-S4-X-U-W-L40-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P508474  
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-S4-X-U-W-L40-1-UNV-X-X-X-STD  
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.  
(4) 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: 21560.8 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
N/A  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
CIE Type: Indirect

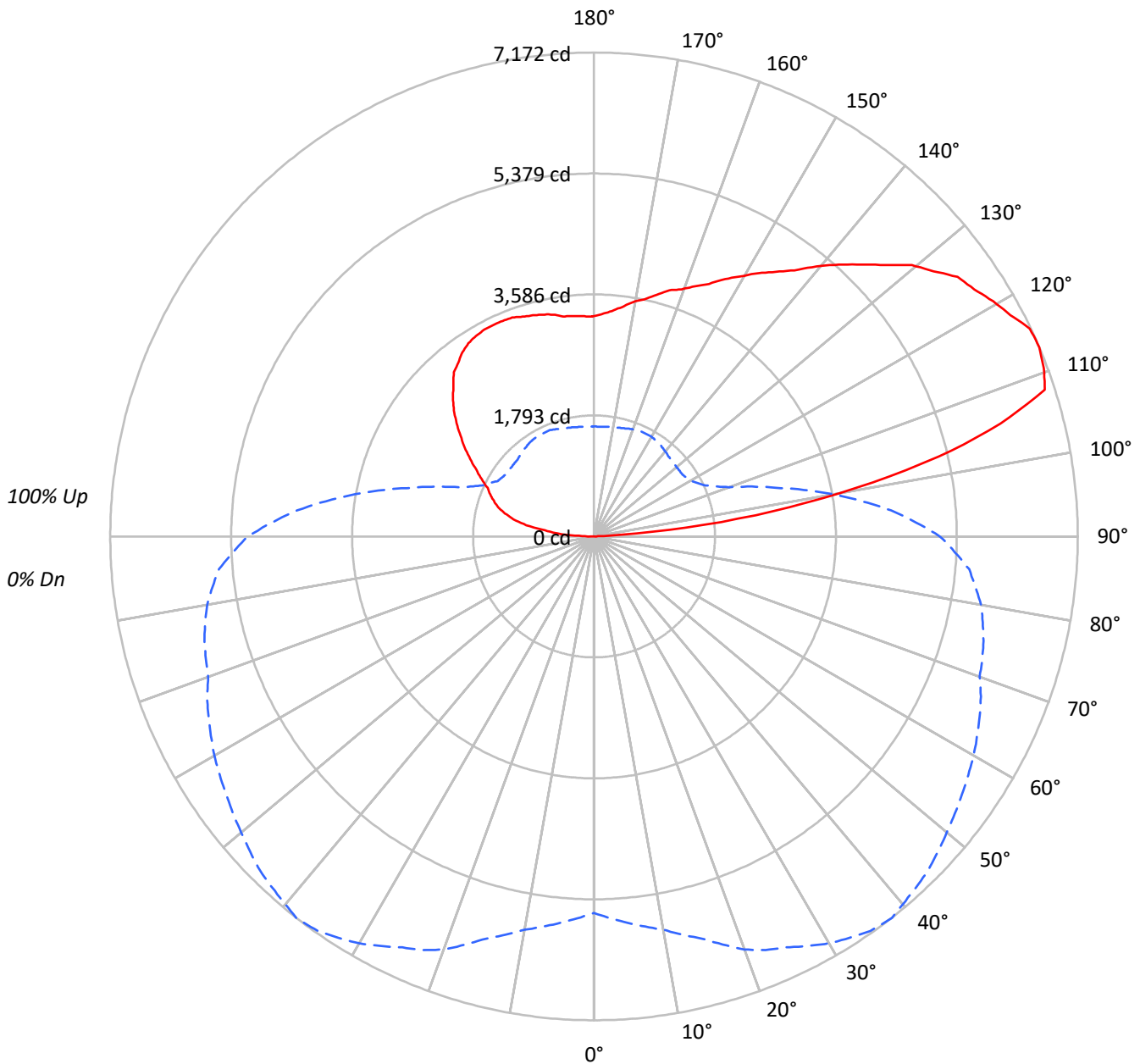
Input Watts (W): 215.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P508474

CATALOG NUMBER: ASYX-X-S4-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



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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°	50043	55712	70816
100°	136495	105688	64454
105°	136727	112880	59143
110°	152313	138840	49810
115°	160655	139235	41477
120°	150604	122623	38515
125°	131572	104885	38310
130°	113181	87062	39691
135°	96019	74720	40385
140°	80574	63599	41683
145°	68117	55959	41794
150°	57968	49605	41907
155°	50760	44403	40771
160°	45716	40462	39673
165°	41919	38084	38000
170°	38942	36268	36435
175°	36431	35357	35193



TEST NUMBER: P508474

CATALOG NUMBER: ASYX-X-S4-X-U-W-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°	882.5	4.1
100°-110°	3194.2	14.8
110°-120°	4305.9	20.0
120°-130°	4098.3	19.0
130°-140°	3414.5	15.8
140°-150°	2586.7	12.0
150°-160°	1760.4	8.2
160°-170°	1000.2	4.6
170°-180°	318.2	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°	8382.6	38.9
90°-150°	18482.1	85.7
90°-180°	21561.0	100.0
0°-180°	21560.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	405	1323	451	451	573	721
105°	3288	6713	2714	1200	1422	3566
115°	6308	6866	5467	1736	1628	6082
125°	7011	6277	5589	2332	2041	6257
135°	6308	5406	4908	2959	2653	4888
145°	5184	4610	4259	3364	3181	3279
155°	4274	4052	3739	3486	3433	1997
165°	3762	3647	3418	3395	3410	1074
175°	3372	3326	3272	3265	3257	329
180°	3257	3257	3257	3257	3257	



TEST NUMBER: P508474

CATALOG NUMBER: ASYX-X-S4-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°	61.2	61.2	61.2	68.8	76.5	84.1	84.1	107.0	137.6	145.3	168.2
95°	405.2	466.4	695.8	802.8	810.4	833.4	833.4	1055.1	1315.1	1376.2	1437.4
97.5°	1085.7	1162.1	1406.8	1597.9	1873.2	1949.6	2041.4	2224.9	2507.8	2676.0	2760.1
100°	2202.0	2217.2	2347.2	2523.1	2821.3	2989.5	3195.9	3700.5	3952.8	3952.8	3861.1
102.5°	2790.7	2806.0	2920.6	3088.9	3440.6	3692.9	3929.9	4541.5	5053.8	5244.9	5321.4
105°	3287.6	3341.2	3463.5	3700.5	4128.7	4411.6	4633.3	5329.0	5925.4	6254.2	6506.5
107.5°	3922.2	4006.3	4212.8	4488.0	5000.3	5329.0	5611.9	6177.7	6697.6	7026.4	7018.7
110°	4839.7	4885.6	5099.7	5459.0	5902.5	6162.4	6338.3	6735.8	7087.5	7118.1	7133.4
112.5°	5581.3	5749.5	5917.8	6170.1	6514.1	6636.4	6720.5	6965.2	7141.1	7171.6	7118.1
115°	6307.7	6368.8	6452.9	6621.2	6781.7	6904.0	6919.3	7049.3	7087.5	7156.4	7034.0
117.5°	6758.8	6789.4	6797.0	6858.2	6942.3	7011.1	6995.8	7034.0	7079.9	6988.1	6927.0
120°	6995.8	7026.4	6972.9	6995.8	7018.7	7034.0	7003.4	7018.7	6934.6	6865.8	6797.0
122.5°	7087.5	7079.9	7026.4	7026.4	6995.8	6988.1	6927.0	6873.5	6812.3	6720.5	6636.4
125°	7011.1	7041.7	6972.9	6919.3	6850.5	6965.2	6812.3	6758.8	6651.7	6621.2	6460.6
127.5°	6911.7	6972.9	6858.2	6804.6	6735.8	6712.9	6621.2	6544.7	6468.2	6384.1	6277.1
130°	6758.8	6781.7	6674.7	6621.2	6552.3	6483.5	6468.2	6300.0	6246.5	6193.0	6047.7
132.5°	6605.9	6567.6	6460.6	6391.8	6307.7	6269.5	6231.2	6086.0	6009.5	5894.8	5818.4
135°	6307.7	6315.3	6215.9	6139.5	6024.8	6024.8	5956.0	5848.9	5749.5	5650.2	5550.8
137.5°	6024.8	6078.3	5933.0	5864.2	5803.1	5757.2	5665.4	5566.1	5459.0	5420.8	5344.3
140°	5734.3	5741.9	5627.2	5566.1	5520.2	5436.1	5382.6	5290.8	5252.6	5183.8	5076.7
142.5°	5481.9	5451.4	5359.6	5290.8	5244.9	5183.8	5153.2	5061.4	5000.3	4939.1	4900.9
145°	5183.8	5176.1	5069.1	5023.2	4985.0	4962.0	4908.5	4839.7	4809.1	4755.6	4755.6
147.5°	4931.5	4893.2	4832.1	4778.5	4732.7	4709.7	4709.7	4587.4	4610.3	4602.7	4533.9
150°	4663.9	4656.2	4572.1	4549.2	4510.9	4526.2	4510.9	4457.4	4457.4	4426.8	4381.0
152.5°	4449.8	4449.8	4381.0	4365.7	4350.4	4342.7	4312.2	4289.2	4289.2	4281.6	4228.1
155°	4273.9	4273.9	4220.4	4212.8	4189.8	4182.2	4166.9	4144.0	4128.7	4113.4	4067.5
157.5°	4128.7	4121.0	4059.9	4067.5	4044.6	4044.6	4036.9	3991.0	4006.3	3998.7	3968.1
160°	3991.0	3983.4	3922.2	3945.2	3929.9	3929.9	3929.9	3899.3	3884.0	3884.0	3815.2
162.5°	3868.7	3884.0	3822.8	3815.2	3822.8	3822.8	3792.3	3769.3	3792.3	3815.2	3746.4
165°	3761.7	3746.4	3723.4	3715.8	3700.5	3685.2	3700.5	3685.2	3669.9	3700.5	3677.6
167.5°	3654.6	3669.9	3624.0	3608.8	3608.8	3639.3	3616.4	3585.8	3601.1	3593.5	3547.6
170°	3562.9	3578.2	3517.0	3517.0	3517.0	3517.0	3494.1	3471.1	3509.4	3524.7	3471.1
172.5°	3471.1	3494.1	3440.6	3432.9	3425.3	3440.6	3425.3	3402.3	3448.2	3425.3	3402.3
175°	3371.7	3410.0	3356.5	3348.8	3364.1	3364.1	3348.8	3333.5	3364.1	3348.8	3333.5
177.5°	3325.9	3325.9	3272.3	3280.0	3280.0	3272.3	3295.3	3287.6	3295.3	3295.3	3325.9
180°	3257.1	3257.1	3257.1	3257.1	3257.1	3257.1	3257.1	3257.1	3257.1	3257.1	3257.1



TEST NUMBER: P508474

CATALOG NUMBER: ASYX-X-S4-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°	175.9	206.4	221.7	122.3	122.3	137.6	130.0	114.7	99.4	91.7	91.7
95°	1322.7	1253.9	1292.1	1162.1	1009.2	886.9	879.3	886.9	611.7	458.7	451.1
97.5°	2844.2	2813.6	2576.6	2209.6	2102.6	2110.2	1980.2	1643.8	1376.2	1177.4	1016.9
100°	3700.5	3601.1	3494.1	3570.5	3356.5	3188.2	2951.2	2653.0	2339.6	2072.0	1705.0
102.5°	5275.5	5122.6	4732.7	4304.5	3876.4	3723.4	3547.6	3211.2	2882.4	2568.9	2194.3
105°	6712.9	6452.9	5795.4	5183.8	4602.7	4426.8	4197.5	3822.8	3440.6	3127.1	2714.2
107.5°	7057.0	6865.8	6498.8	6086.0	5581.3	5290.8	5076.7	4671.5	4312.2	3884.0	3410.0
110°	7087.5	6896.4	6667.0	6384.1	6139.5	5971.3	5833.6	5527.8	5267.9	4893.2	4411.6
112.5°	7003.4	6827.6	6659.4	6498.8	6307.7	6208.3	6086.0	5978.9	5826.0	5581.3	5130.2
115°	6865.8	6712.9	6560.0	6422.4	6330.6	6284.7	6223.6	6139.5	6055.4	5871.9	5466.7
117.5°	6735.8	6560.0	6422.4	6376.5	6292.4	6223.6	6215.9	6200.6	6147.1	6055.4	5665.4
120°	6605.9	6468.2	6330.6	6231.2	6200.6	6193.0	6193.0	6147.1	6162.4	6086.0	5696.0
122.5°	6399.4	6292.4	6177.7	6131.8	6001.9	6032.4	6047.7	6017.1	6078.3	6024.8	5657.8
125°	6277.1	6170.1	6024.8	5956.0	5933.0	5902.5	5933.0	5879.5	5910.1	5871.9	5589.0
127.5°	6070.7	5933.0	5856.6	5803.1	5787.8	5680.7	5734.3	5741.9	5749.5	5688.4	5436.1
130°	5848.9	5772.5	5596.6	5619.6	5619.6	5581.3	5589.0	5558.4	5543.1	5489.6	5199.1
132.5°	5688.4	5589.0	5474.3	5443.7	5413.1	5405.5	5405.5	5352.0	5352.0	5283.2	5092.0
135°	5405.5	5336.7	5290.8	5260.2	5252.6	5222.0	5222.0	5168.5	5160.8	5099.7	4908.5
137.5°	5206.7	5137.9	5099.7	5076.7	5053.8	5000.3	5030.9	4985.0	4939.1	4923.8	4740.3
140°	5007.9	4954.4	4923.8	4885.6	4877.9	4847.4	4847.4	4793.8	4778.5	4709.7	4526.2
142.5°	4839.7	4809.1	4748.0	4732.7	4679.2	4686.8	4648.6	4656.2	4595.1	4518.6	4373.3
145°	4610.3	4618.0	4587.4	4556.8	4549.2	4503.3	4510.9	4465.1	4426.8	4373.3	4258.6
147.5°	4488.0	4488.0	4442.1	4403.9	4373.3	4365.7	4327.5	4335.1	4273.9	4197.5	4121.0
150°	4327.5	4312.2	4266.3	4243.3	4220.4	4220.4	4182.2	4159.2	4113.4	4090.4	3991.0
152.5°	4212.8	4174.5	4151.6	4105.7	4105.7	4067.5	4036.9	4021.6	3983.4	3937.5	3861.1
155°	4052.2	4036.9	4006.3	3998.7	3968.1	3937.5	3884.0	3876.4	3853.4	3807.5	3738.7
157.5°	3922.2	3945.2	3899.3	3876.4	3830.5	3822.8	3769.3	3777.0	3731.1	3700.5	3639.3
160°	3861.1	3822.8	3777.0	3769.3	3754.0	3692.9	3685.2	3662.3	3631.7	3608.8	3532.3
162.5°	3723.4	3715.8	3692.9	3677.6	3624.0	3624.0	3532.3	3570.5	3547.6	3524.7	3486.4
165°	3647.0	3654.6	3601.1	3585.8	3570.5	3539.9	3517.0	3494.1	3471.1	3455.8	3417.6
167.5°	3547.6	3532.3	3517.0	3486.4	3494.1	3471.1	3448.2	3432.9	3417.6	3402.3	3371.7
170°	3463.5	3455.8	3440.6	3417.6	3425.3	3402.3	3402.3	3371.7	3364.1	3356.5	3318.2
172.5°	3394.7	3394.7	3379.4	3379.4	3371.7	3348.8	3333.5	3318.2	3318.2	3302.9	3295.3
175°	3325.9	3333.5	3325.9	3318.2	3318.2	3302.9	3302.9	3310.6	3295.3	3295.3	3272.3
177.5°	3272.3	3272.3	3272.3	3272.3	3272.3	3272.3	3272.3	3264.7	3272.3	3264.7	3241.8
180°	3257.1	3257.1	3257.1	3257.1	3257.1	3257.1	3257.1	3257.1	3257.1	3257.1	3257.1



TEST NUMBER: P508474

CATALOG NUMBER: ASYX-X-S4-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°	99.4	107.0	114.7	122.3	145.3	137.6	160.6	168.2	183.5	214.1	221.7
95°	405.2	405.2	397.6	397.6	382.3	382.3	374.6	367.0	405.2	451.1	512.3
97.5°	833.4	711.0	649.9	626.9	619.3	611.7	596.4	573.4	588.7	626.9	703.4
100°	1406.8	1162.1	963.4	848.7	825.7	787.5	772.2	764.6	764.6	841.0	963.4
102.5°	1819.7	1460.3	1200.4	1032.2	986.3	948.1	925.1	925.1	940.4	1032.2	1169.8
105°	2301.3	1842.6	1445.0	1223.3	1185.1	1131.6	1093.3	1101.0	1116.3	1200.4	1322.7
107.5°	2882.4	2331.9	1857.9	1513.8	1429.7	1353.3	1292.1	1292.1	1299.8	1353.3	1445.0
110°	3754.0	3043.0	2331.9	1819.7	1682.0	1597.9	1452.7	1452.7	1445.0	1483.3	1544.4
112.5°	4419.2	3593.5	2783.0	2125.5	1934.4	1796.7	1643.8	1597.9	1597.9	1605.6	1643.8
115°	4816.8	3960.5	3096.5	2408.4	2156.1	1987.9	1796.7	1743.2	1720.3	1735.6	1720.3
117.5°	5046.1	4182.2	3364.1	2614.8	2377.8	2186.7	1949.6	1880.8	1842.6	1873.2	1865.5
120°	5160.8	4381.0	3578.2	2828.9	2584.2	2362.5	2110.2	2041.4	2010.8	2010.8	2018.5
122.5°	5176.1	4488.0	3700.5	3020.0	2775.4	2561.3	2301.3	2202.0	2171.4	2179.0	2179.0
125°	5122.6	4472.7	3815.2	3173.0	2935.9	2721.9	2454.3	2370.2	2301.3	2331.9	2339.6
127.5°	5038.5	4434.5	3884.0	3295.3	3081.2	2890.1	2645.4	2546.0	2484.8	2500.1	2492.5
130°	4916.2	4388.6	3945.2	3402.3	3218.8	3027.7	2813.6	2721.9	2637.8	2645.4	2653.0
132.5°	4793.8	4373.3	3975.8	3486.4	3333.5	3173.0	2958.9	2867.1	2790.7	2798.3	2798.3
135°	4663.9	4335.1	3937.5	3539.9	3463.5	3295.3	3119.4	3020.0	2958.9	2958.9	2943.6
137.5°	4526.2	4243.3	3968.1	3647.0	3539.9	3402.3	3226.5	3150.0	3088.9	3081.2	3073.6
140°	4403.9	4144.0	3929.9	3669.9	3593.5	3486.4	3341.2	3280.0	3195.9	3180.6	3226.5
142.5°	4281.6	4098.1	3968.1	3723.4	3647.0	3555.2	3448.2	3364.1	3302.9	3287.6	3280.0
145°	4159.2	4052.2	3906.9	3708.2	3677.6	3585.8	3471.1	3448.2	3379.4	3364.1	3364.1
147.5°	4036.9	3945.2	3838.1	3700.5	3700.5	3624.0	3570.5	3501.7	3448.2	3417.6	3417.6
150°	3929.9	3853.4	3799.9	3692.9	3685.2	3624.0	3578.2	3547.6	3486.4	3471.1	3463.5
152.5°	3830.5	3761.7	3715.8	3647.0	3639.3	3555.2	3570.5	3539.9	3478.8	3463.5	3463.5
155°	3708.2	3700.5	3647.0	3578.2	3608.8	3562.9	3524.7	3562.9	3471.1	3486.4	3486.4
157.5°	3624.0	3616.4	3608.8	3539.9	3547.6	3524.7	3501.7	3532.3	3455.8	3463.5	3463.5
160°	3532.3	3517.0	3517.0	3455.8	3501.7	3455.8	3463.5	3478.8	3432.9	3440.6	3463.5
162.5°	3486.4	3455.8	3455.8	3432.9	3448.2	3432.9	3394.7	3448.2	3440.6	3425.3	3432.9
165°	3410.0	3402.3	3417.6	3371.7	3410.0	3364.1	3379.4	3402.3	3387.0	3394.7	3402.3
167.5°	3364.1	3356.5	3364.1	3341.2	3364.1	3348.8	3341.2	3371.7	3356.5	3364.1	3371.7
170°	3325.9	3325.9	3333.5	3310.6	3333.5	3310.6	3333.5	3333.5	3325.9	3325.9	3341.2
172.5°	3310.6	3287.6	3310.6	3272.3	3310.6	3264.7	3280.0	3302.9	3295.3	3287.6	3287.6
175°	3280.0	3272.3	3295.3	3257.1	3280.0	3257.1	3257.1	3280.0	3272.3	3264.7	3295.3
177.5°	3280.0	3257.1	3280.0	3241.8	3264.7	3249.4	3249.4	3272.3	3257.1	3257.1	3280.0
180°	3257.1	3257.1	3257.1	3257.1	3257.1	3257.1	3257.1	3257.1	3257.1	3257.1	3257.1





TEST NUMBER: P508474

CATALOG NUMBER: ASYX-X-S4-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°	221.7	260.0	267.6	290.5	282.9	237.0	206.4	168.2	145.3
95°	581.1	642.2	703.4	695.8	718.7	672.8	626.9	604.0	573.4
97.5°	779.9	879.3	940.4	940.4	948.1	917.5	902.2	917.5	879.3
100°	1101.0	1169.8	1192.7	1185.1	1162.1	1108.6	1078.0	1062.7	1039.8
102.5°	1292.1	1368.6	1391.5	1376.2	1360.9	1338.0	1307.4	1292.1	1284.5
105°	1422.1	1490.9	1521.5	1513.8	1506.2	1468.0	1406.8	1429.7	1422.1
107.5°	1544.4	1590.3	1620.9	1597.9	1590.3	1567.4	1529.1	1552.1	1521.5
110°	1620.9	1659.1	1666.8	1666.8	1651.5	1628.5	1597.9	1605.6	1582.7
112.5°	1682.0	1705.0	1705.0	1705.0	1689.7	1659.1	1643.8	1628.5	1628.5
115°	1750.9	1735.6	1743.2	1743.2	1727.9	1682.0	1659.1	1643.8	1628.5
117.5°	1873.2	1850.3	1827.3	1827.3	1789.1	1758.5	1735.6	1712.6	1689.7
120°	1987.9	1972.6	1957.3	1934.4	1911.4	1873.2	1835.0	1804.4	1789.1
122.5°	2140.8	2102.6	2079.6	2094.9	2049.0	2010.8	1964.9	1934.4	1896.1
125°	2309.0	2278.4	2240.2	2224.9	2186.7	2156.1	2117.9	2087.3	2041.4
127.5°	2454.3	2408.4	2393.1	2385.5	2339.6	2301.3	2240.2	2217.2	2217.2
130°	2622.5	2568.9	2576.6	2538.4	2500.1	2439.0	2377.8	2377.8	2370.2
132.5°	2783.0	2721.9	2714.2	2698.9	2653.0	2607.2	2568.9	2561.3	2530.7
135°	2913.0	2867.1	2859.5	2844.2	2806.0	2760.1	2698.9	2714.2	2653.0
137.5°	3027.7	3004.7	2997.1	2966.5	2928.3	2920.6	2851.8	2844.2	2806.0
140°	3157.7	3111.8	3142.4	3104.1	3058.3	3043.0	2951.2	2966.5	2966.5
142.5°	3249.4	3226.5	3218.8	3203.5	3173.0	3142.4	3119.4	3088.9	3104.1
145°	3341.2	3325.9	3310.6	3310.6	3264.7	3249.4	3203.5	3203.5	3180.6
147.5°	3417.6	3387.0	3387.0	3371.7	3348.8	3333.5	3287.6	3310.6	3272.3
150°	3417.6	3432.9	3417.6	3417.6	3425.3	3417.6	3379.4	3364.1	3371.7
152.5°	3478.8	3455.8	3440.6	3471.1	3432.9	3455.8	3402.3	3417.6	3402.3
155°	3448.2	3463.5	3471.1	3455.8	3455.8	3455.8	3432.9	3471.1	3432.9
157.5°	3478.8	3463.5	3471.1	3463.5	3448.2	3471.1	3448.2	3478.8	3455.8
160°	3463.5	3448.2	3463.5	3455.8	3440.6	3471.1	3471.1	3494.1	3463.5
162.5°	3410.0	3425.3	3463.5	3440.6	3440.6	3494.1	3410.0	3486.4	3440.6
165°	3394.7	3402.3	3417.6	3432.9	3402.3	3425.3	3425.3	3432.9	3410.0
167.5°	3379.4	3348.8	3379.4	3379.4	3387.0	3387.0	3387.0	3402.3	3371.7
170°	3348.8	3287.6	3348.8	3348.8	3333.5	3333.5	3325.9	3371.7	3333.5
172.5°	3295.3	3280.0	3302.9	3302.9	3318.2	3310.6	3310.6	3318.2	3295.3
175°	3264.7	3272.3	3302.9	3280.0	3272.3	3280.0	3257.1	3280.0	3257.1
177.5°	3249.4	3249.4	3257.1	3264.7	3280.0	3264.7	3241.8	3264.7	3241.8
180°	3257.1	3257.1	3257.1	3257.1	3257.1	3257.1	3257.1	3257.1	3257.1

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