

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: P508482

Luminaire Tested: **ASYX-X-SL-X-U-HSS-L40-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P508482  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-840-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: AMETRIX  
Catalog Number: ASYX-X-SL-X-U-HSS-L40-1-UNV-X-X-X-STD  
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.  
(1) AF LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

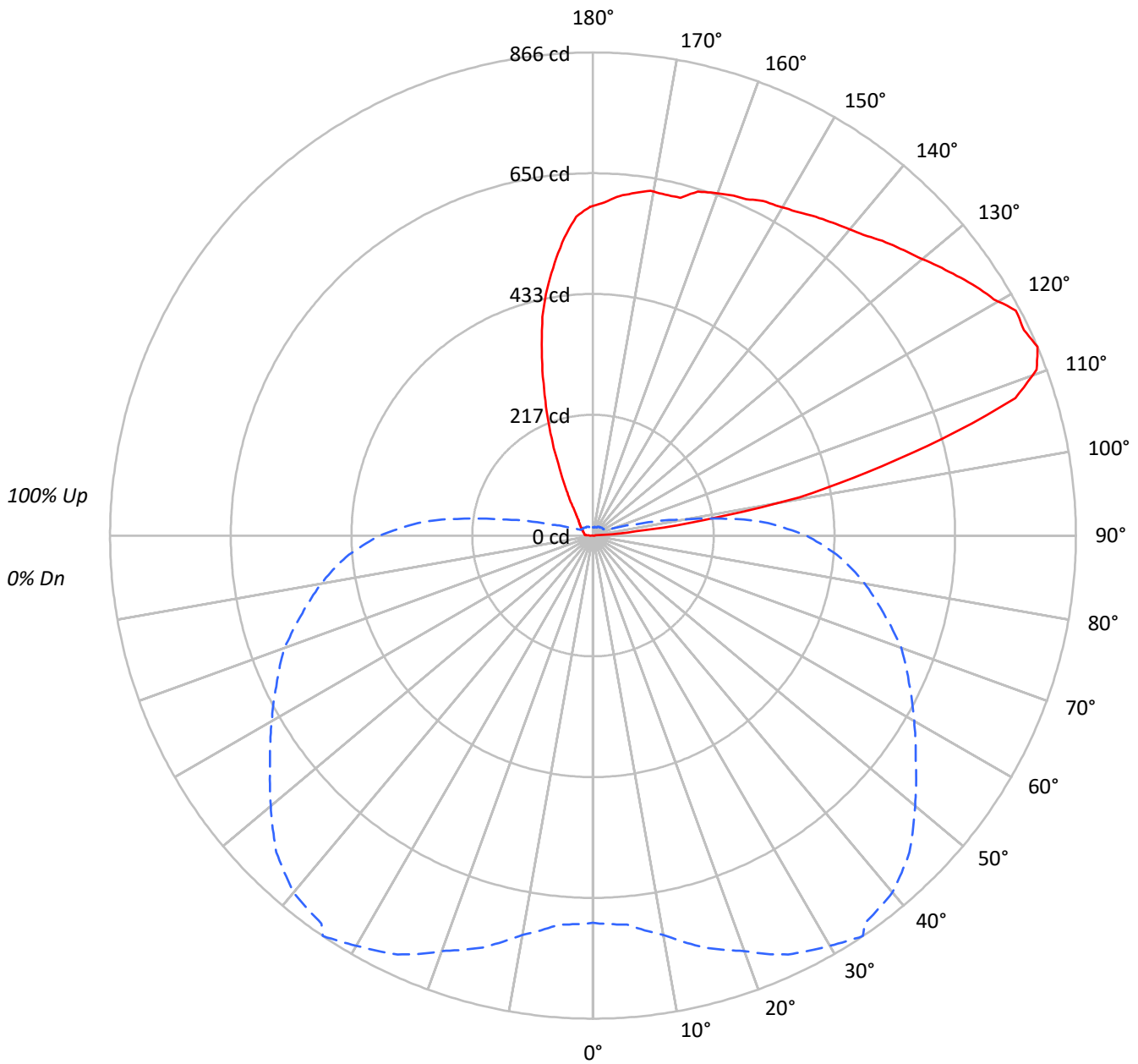
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2030.7 lumens  
Efficiency: N/A  
Efficacy: 75.8 lumens/watt  
N/A  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Indirect  
  
Input Watts (W): 26.8  
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: P508482  
CATALOG NUMBER: ASYX-X-SL-X-U-HSS-L40-1-UNV-X-X-X-STD

### Luminous Intensity Polar Plot



— Vertical Plane Through 34° 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	
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°	543	6719	7805
100°	22687	13736	4190
105°	69536	21792	2628
110°	79774	37401	1851
115°	72731	43736	1610
120°	62258	42315	1559
125°	52320	40618	1614
130°	47216	38060	1742
135°	41819	35493	1857
140°	38664	32442	2096
145°	35389	30044	2376
150°	33529	27801	3311
155°	31502	26456	5045
160°	30071	25778	7972
165°	28800	25479	12539
170°	27806	25436	18424
175°	26706	25388	22652



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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°	39.5	1.9
100°-110°	247.5	12.2
110°-120°	382.6	18.8
120°-130°	369.2	18.2
130°-140°	320.7	15.8
140°-150°	264.3	13.0
150°-160°	208.3	10.3
160°-170°	144.5	7.1
170°-180°	54.3	2.7
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°	669.6	33.0
90°-150°	1623.7	80.0
90°-180°	2031.0	100.0
0°-180°	2030.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	1	10	14	12	16	19
105°	418	671	131	17	16	410
115°	714	814	429	22	16	694
125°	697	794	541	28	22	637
135°	687	729	583	40	30	534
145°	673	681	572	80	45	427
155°	663	654	557	197	106	306
165°	646	628	572	389	281	184
175°	618	607	587	549	524	59
180°	590	590	590	590	590	



TEST NUMBER: P508482

CATALOG NUMBER: ASYX-X-SL-X-U-HSS-L40-1-UNV-X-X-X-STD

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	34°	35°	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°	0.0	0.0	1.1	1.1	3.4	2.3	2.3	3.4	4.5	5.6	2.3
95°	1.1	1.1	2.3	29.4	88.1	97.1	92.6	89.2	77.9	67.8	16.9
97.5°	23.7	28.2	45.2	120.9	245.1	282.4	300.5	246.3	202.2	187.5	100.5
100°	91.5	106.2	146.9	277.9	414.6	423.6	420.2	408.9	376.2	354.7	272.2
102.5°	244.0	254.2	310.6	427.0	501.6	517.4	517.4	507.2	503.8	497.0	471.1
105°	418.0	429.3	474.4	534.3	579.5	596.4	605.5	628.1	650.7	654.1	678.9
107.5°	534.3	545.6	580.6	625.8	684.6	706.0	732.0	768.1	796.4	793.0	787.4
110°	633.7	646.1	678.9	724.1	767.0	793.0	817.9	833.7	849.5	833.7	825.8
112.5°	694.7	700.4	727.5	764.8	793.0	812.2	829.1	849.5	866.4	849.5	835.9
115°	713.9	717.3	741.0	767.0	797.5	815.6	828.0	849.5	856.3	852.9	841.6
117.5°	712.8	727.5	747.8	765.9	795.3	809.9	822.4	839.3	859.6	850.6	839.3
120°	723.0	724.1	745.6	767.0	788.5	800.9	800.9	825.8	834.8	832.5	830.3
122.5°	719.6	723.0	741.0	754.6	777.2	787.4	797.5	809.9	820.1	816.7	816.7
125°	697.0	718.4	728.6	744.4	765.9	772.7	782.8	793.0	802.0	798.6	797.5
127.5°	710.5	711.7	720.7	737.6	751.2	755.7	767.0	776.1	785.1	784.0	786.2
130°	704.9	701.5	723.0	729.7	739.9	747.8	753.5	761.4	768.1	768.1	770.4
132.5°	700.4	700.4	707.1	720.7	729.7	735.4	744.4	746.7	754.6	756.9	752.3
135°	686.8	695.9	706.0	710.5	720.7	725.2	729.7	734.3	741.0	743.3	735.4
137.5°	673.3	686.8	700.4	707.1	715.1	715.1	715.1	721.8	725.2	728.6	720.7
140°	687.9	686.8	699.2	698.1	702.6	701.5	709.4	710.5	715.1	712.8	708.3
142.5°	684.6	684.6	687.9	692.5	691.3	693.6	699.2	704.9	704.9	707.1	699.2
145°	673.3	676.6	682.3	686.8	686.8	685.7	692.5	693.6	695.9	694.7	690.2
147.5°	677.8	677.8	677.8	683.4	683.4	683.4	684.6	685.7	685.7	686.8	683.4
150°	674.4	675.5	677.8	675.5	681.2	672.1	677.8	677.8	677.8	678.9	676.6
152.5°	651.8	667.6	673.3	672.1	667.6	669.9	671.0	675.5	673.3	675.5	668.7
155°	663.1	662.0	663.1	664.2	660.8	663.1	664.2	664.2	663.1	664.2	658.6
157.5°	659.7	658.6	664.2	657.4	660.8	663.1	658.6	662.0	658.6	663.1	660.8
160°	656.3	654.1	658.6	654.1	658.6	652.9	649.5	655.2	651.8	659.7	648.4
162.5°	651.8	650.7	655.2	649.5	645.0	642.8	646.1	647.3	645.0	647.3	641.6
165°	646.1	646.1	646.1	640.5	643.9	643.9	639.4	640.5	625.8	641.6	634.9
167.5°	641.6	646.1	640.5	634.9	641.6	641.6	633.7	634.9	624.7	632.6	629.2
170°	636.0	631.5	632.6	632.6	638.2	628.1	622.4	632.6	626.9	632.6	626.9
172.5°	622.4	626.9	626.9	624.7	621.3	621.3	620.2	622.4	619.0	620.2	616.8
175°	617.9	617.9	620.2	623.6	616.8	615.6	608.9	614.5	611.1	613.4	610.0
177.5°	601.0	610.0	608.9	601.0	605.5	598.7	602.1	604.4	597.6	603.2	597.6
180°	589.7	589.7	589.7	589.7	589.7	589.7	589.7	589.7	589.7	589.7	589.7



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**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°	2.3	2.3	2.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
95°	10.2	13.6	32.8	27.1	20.3	19.2	21.5	19.2	16.9	14.7	13.6
97.5°	81.3	91.5	96.0	84.7	83.6	76.8	68.9	52.0	47.4	41.8	32.8
100°	222.5	197.7	185.3	164.9	133.3	120.9	110.7	91.5	74.6	65.5	55.4
102.5°	425.9	379.6	319.7	256.4	209.0	190.9	170.6	142.3	119.7	99.4	82.5
105°	671.0	582.9	466.5	381.8	318.6	279.0	260.9	215.8	178.5	155.9	131.0
107.5°	752.3	695.9	623.6	535.4	460.9	424.7	385.2	325.3	277.9	236.1	198.8
110°	786.2	737.6	683.4	631.5	580.6	547.9	520.8	459.8	401.0	349.1	297.1
112.5°	803.2	754.6	707.1	665.4	625.8	607.7	588.5	540.0	494.8	445.1	382.9
115°	814.5	776.1	734.3	690.2	659.7	640.5	623.6	579.5	537.7	492.5	429.3
117.5°	820.1	781.7	751.2	715.1	683.4	667.6	649.5	610.0	568.2	526.4	463.1
120°	813.3	787.4	762.5	732.0	701.5	685.7	671.0	631.5	593.1	553.5	491.4
122.5°	804.3	789.6	770.4	739.9	717.3	703.8	691.3	651.8	617.9	572.7	516.2
125°	794.1	779.4	759.1	739.9	721.8	711.7	702.6	667.6	632.6	594.2	541.1
127.5°	778.3	764.8	748.9	733.1	719.6	709.4	706.0	675.5	642.8	608.9	554.6
130°	761.4	750.1	736.5	720.7	711.7	700.4	701.5	674.4	648.4	616.8	568.2
132.5°	738.8	730.9	727.5	710.5	701.5	695.9	687.9	669.9	648.4	623.6	577.2
135°	728.6	720.7	715.1	700.4	686.8	684.6	673.3	663.1	645.0	626.9	582.9
137.5°	710.5	706.0	702.6	686.8	673.3	673.3	669.9	656.3	640.5	615.6	578.4
140°	702.6	697.0	687.9	675.5	667.6	660.8	657.4	646.1	626.9	607.7	577.2
142.5°	689.1	684.6	682.3	671.0	658.6	651.8	645.0	632.6	619.0	605.5	572.7
145°	681.2	680.0	677.8	666.5	647.3	643.9	641.6	628.1	615.6	594.2	571.6
147.5°	671.0	672.1	669.9	656.3	643.9	636.0	630.3	617.9	608.9	590.8	562.6
150°	664.2	665.4	663.1	646.1	632.6	629.2	626.9	614.5	597.6	582.9	559.2
152.5°	660.8	657.4	651.8	645.0	630.3	622.4	620.2	606.6	597.6	579.5	556.9
155°	654.1	649.5	646.1	634.9	625.8	617.9	612.3	604.4	594.2	576.1	556.9
157.5°	647.3	642.8	640.5	638.2	625.8	614.5	613.4	604.4	588.5	575.0	559.2
160°	640.5	629.2	638.2	624.7	621.3	612.3	605.5	599.8	588.5	576.1	562.6
162.5°	633.7	630.3	629.2	621.3	614.5	608.9	598.7	602.1	588.5	577.2	567.1
165°	628.1	624.7	623.6	621.3	611.1	606.6	604.4	597.6	591.9	580.6	571.6
167.5°	622.4	616.8	619.0	616.8	604.4	607.7	602.1	597.6	594.2	585.1	576.1
170°	621.3	610.0	615.6	614.5	605.5	604.4	597.6	596.4	593.1	586.3	581.8
172.5°	615.6	607.7	611.1	607.7	603.2	599.8	599.8	601.0	595.3	590.8	585.1
175°	606.6	602.1	603.2	606.6	599.8	597.6	591.9	596.4	597.6	589.7	587.4
177.5°	596.4	601.0	597.6	602.1	596.4	595.3	591.9	595.3	595.3	588.5	588.5
180°	589.7	589.7	589.7	589.7	589.7	589.7	589.7	589.7	589.7	589.7	589.7



TEST NUMBER: P508482

CATALOG NUMBER: ASYX-X-SL-X-U-HSS-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°	3.4	4.5	4.5	5.6	6.8	6.8	7.9	7.9	9.0	10.2	11.3
95°	6.8	5.6	6.8	7.9	7.9	9.0	10.2	10.2	11.3	12.4	12.4
97.5°	13.6	9.0	9.0	9.0	10.2	10.2	11.3	12.4	13.6	13.6	13.6
100°	26.0	14.7	14.7	11.3	11.3	12.4	12.4	13.6	14.7	14.7	14.7
102.5°	45.2	27.1	21.5	14.7	13.6	13.6	14.7	14.7	15.8	15.8	15.8
105°	84.7	54.2	30.5	18.1	16.9	15.8	15.8	15.8	16.9	16.9	16.9
107.5°	149.1	87.0	42.9	23.7	20.3	18.1	18.1	18.1	18.1	18.1	18.1
110°	227.1	127.6	58.7	30.5	24.9	21.5	20.3	20.3	19.2	19.2	19.2
112.5°	298.2	167.2	74.6	37.3	29.4	24.9	22.6	21.5	21.5	20.3	19.2
115°	343.4	196.6	90.4	42.9	33.9	28.2	23.7	23.7	22.6	21.5	20.3
117.5°	376.2	227.1	109.6	52.0	39.5	32.8	26.0	24.9	23.7	23.7	22.6
120°	407.8	258.7	129.9	62.1	47.4	37.3	29.4	27.1	26.0	24.9	23.7
122.5°	438.3	289.2	152.5	74.6	55.4	44.1	32.8	29.4	28.2	26.0	26.0
125°	462.0	320.8	178.5	90.4	66.6	52.0	37.3	31.6	29.4	28.2	27.1
127.5°	488.0	352.4	205.6	107.3	79.1	62.1	42.9	35.0	32.8	30.5	29.4
130°	507.2	382.9	235.0	129.9	97.1	74.6	50.8	39.5	35.0	32.8	31.6
132.5°	521.9	408.9	264.3	154.8	118.6	90.4	61.0	47.4	39.5	36.1	33.9
135°	526.4	431.5	294.8	181.9	141.2	110.7	74.6	56.5	45.2	39.5	37.3
137.5°	530.9	449.6	324.2	212.4	170.6	135.6	90.4	67.8	54.2	46.3	40.7
140°	528.7	463.1	352.4	246.3	201.1	162.7	111.8	82.5	65.5	55.4	47.4
142.5°	527.5	474.4	381.8	277.9	232.7	194.3	137.8	101.7	80.2	65.5	56.5
145°	529.8	482.4	403.3	311.8	270.0	230.4	169.4	124.3	98.3	80.2	70.0
147.5°	521.9	486.9	429.3	341.1	302.7	264.3	203.3	154.8	123.1	100.5	85.9
150°	528.7	489.1	440.6	370.5	334.4	299.4	240.6	189.8	153.6	126.5	108.4
152.5°	527.5	491.4	453.0	396.5	366.0	333.2	274.5	224.8	186.4	158.1	136.7
155°	533.2	492.5	465.4	422.5	395.4	366.0	312.9	265.5	224.8	196.6	171.7
157.5°	537.7	507.2	480.1	446.2	422.5	397.6	352.4	308.4	270.0	240.6	210.1
160°	544.5	515.1	491.4	465.4	449.6	423.6	390.9	355.8	318.6	286.9	262.1
162.5°	547.9	527.5	507.2	481.2	471.1	453.0	425.9	399.9	368.3	338.9	315.2
165°	554.6	534.3	520.8	499.3	489.1	473.3	456.4	432.6	413.4	388.6	370.5
167.5°	561.4	547.9	536.6	519.6	510.6	499.3	484.6	468.8	458.6	439.4	421.4
170°	568.2	556.9	551.3	543.4	529.8	520.8	514.0	502.7	489.1	480.1	469.9
172.5°	573.9	569.3	565.9	563.7	550.1	543.4	538.8	526.4	526.4	514.0	506.1
175°	582.9	568.2	578.4	572.7	568.2	562.6	560.3	556.9	553.5	549.0	544.5
177.5°	587.4	585.1	587.4	585.1	584.0	578.4	581.8	578.4	577.2	576.1	572.7
180°	589.7	589.7	589.7	589.7	589.7	589.7	589.7	589.7	589.7	589.7	589.7





TEST NUMBER: P508482

CATALOG NUMBER: ASYX-X-SL-X-U-HSS-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°	12.4	12.4	13.6	13.6	13.6	13.6	14.7	13.6	12.4
95°	13.6	14.7	14.7	14.7	15.8	15.8	15.8	15.8	15.8
97.5°	14.7	14.7	15.8	15.8	15.8	16.9	16.9	16.9	16.9
100°	15.8	15.8	15.8	16.9	16.9	16.9	16.9	16.9	16.9
102.5°	15.8	15.8	15.8	16.9	16.9	16.9	16.9	16.9	16.9
105°	16.9	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
107.5°	16.9	16.9	15.8	15.8	15.8	15.8	15.8	15.8	15.8
110°	18.1	16.9	15.8	15.8	15.8	15.8	15.8	15.8	14.7
112.5°	19.2	18.1	16.9	15.8	15.8	15.8	15.8	14.7	14.7
115°	20.3	19.2	18.1	18.1	16.9	16.9	16.9	15.8	15.8
117.5°	21.5	20.3	19.2	19.2	18.1	18.1	16.9	16.9	16.9
120°	22.6	22.6	21.5	20.3	20.3	19.2	19.2	18.1	18.1
122.5°	24.9	22.6	22.6	22.6	22.6	21.5	20.3	20.3	20.3
125°	26.0	24.9	24.9	24.9	23.7	23.7	22.6	21.5	21.5
127.5°	28.2	27.1	27.1	26.0	26.0	24.9	24.9	23.7	23.7
130°	30.5	29.4	28.2	28.2	28.2	27.1	27.1	26.0	26.0
132.5°	32.8	31.6	31.6	30.5	30.5	29.4	29.4	28.2	28.2
135°	36.1	33.9	33.9	33.9	32.8	31.6	31.6	31.6	30.5
137.5°	38.4	37.3	36.1	35.0	35.0	35.0	33.9	33.9	33.9
140°	44.1	40.7	39.5	38.4	38.4	37.3	37.3	37.3	37.3
142.5°	50.8	47.4	44.1	42.9	41.8	40.7	40.7	39.5	39.5
145°	62.1	56.5	52.0	50.8	48.6	46.3	46.3	45.2	45.2
147.5°	75.7	68.9	63.3	61.0	59.9	57.6	55.4	54.2	53.1
150°	94.9	84.7	79.1	76.8	74.6	70.0	67.8	66.6	66.6
152.5°	119.7	108.4	99.4	94.9	92.6	88.1	84.7	83.6	84.7
155°	150.2	136.7	127.6	122.0	117.5	111.8	109.6	108.4	106.2
157.5°	193.2	175.1	161.5	157.0	151.4	145.7	142.3	138.9	136.7
160°	239.5	219.1	206.7	201.1	194.3	185.3	180.7	176.2	174.0
162.5°	290.3	273.4	258.7	249.6	246.3	235.0	230.4	224.8	225.9
165°	346.8	328.7	317.4	310.6	301.6	296.0	292.6	284.7	281.3
167.5°	406.7	386.3	380.7	371.6	363.7	355.8	355.8	352.4	349.1
170°	451.9	447.3	440.6	430.4	429.3	423.6	423.6	420.2	421.4
172.5°	494.8	488.0	488.0	484.6	481.2	479.0	473.3	475.6	475.6
175°	537.7	534.3	532.1	523.0	525.3	525.3	521.9	521.9	524.1
177.5°	572.7	572.7	570.5	569.3	568.2	569.3	570.5	571.6	569.3
180°	589.7	589.7	589.7	589.7	589.7	589.7	589.7	589.7	589.7

(END OF REPORT)