

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: P508481

Luminaire Tested: **ASYX-X-SL-X-U-HSS-L35-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508481
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-L35-1-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

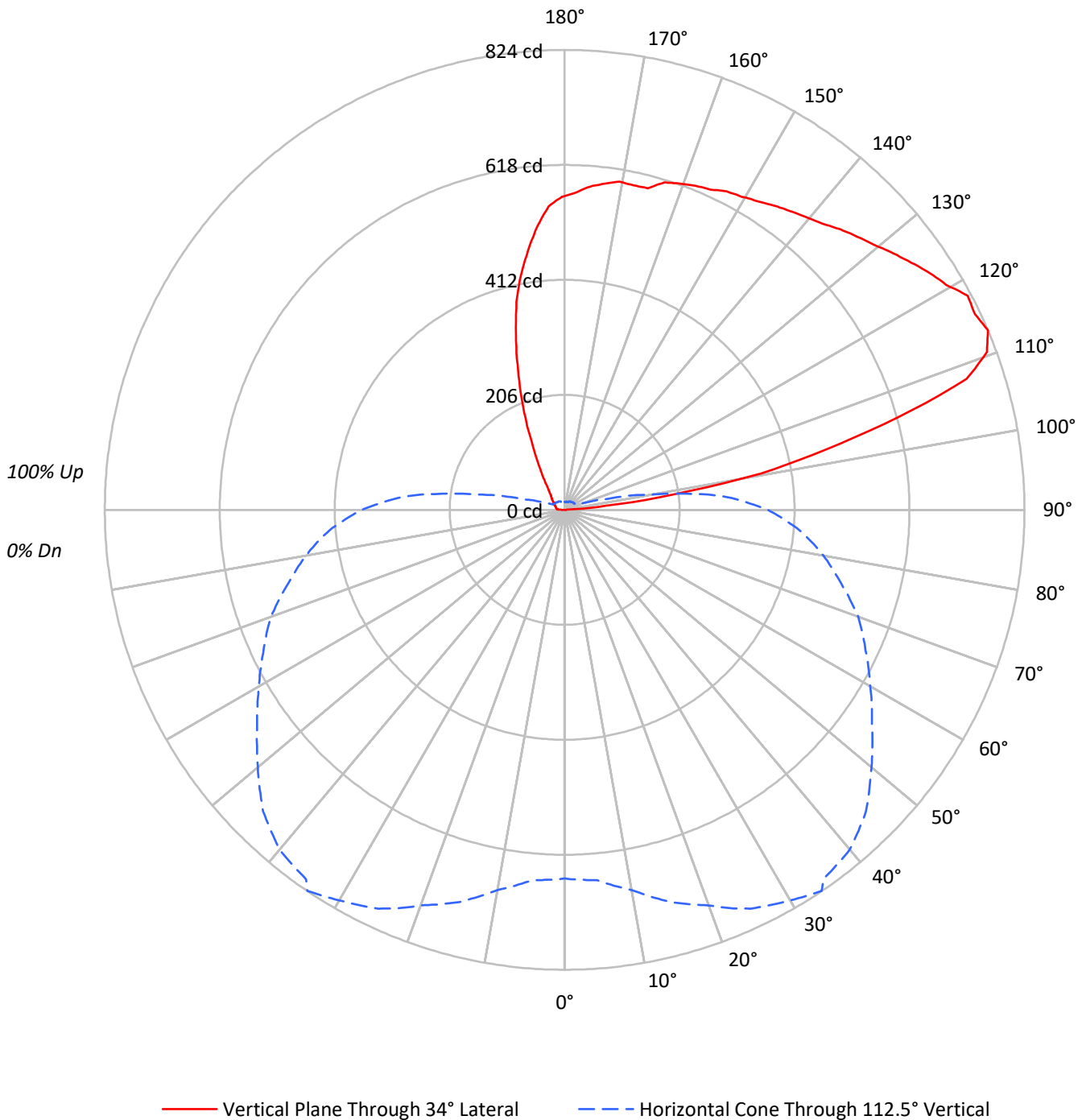
Lumens per Lamp: N/A
Luminaire Lumens: 1930.9 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Indirect

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



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Luminous Intensity Polar Plot





TEST NUMBER: P508481

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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°	543	6373	7410
100°	21571	13042	3992
105°	66109	20728	2495
110°	75859	35563	1762
115°	69155	41577	1528
120°	59193	40231	1481
125°	49746	38621	1531
130°	44892	36191	1654
135°	39761	33745	1766
140°	36764	30851	1990
145°	33644	28567	2260
150°	31878	26434	3152
155°	29953	25155	4798
160°	28591	24509	7578
165°	27387	24226	11919
170°	26437	24181	17514
175°	25392	24138	21541



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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°	37.6	1.9
100°-110°	235.3	12.2
110°-120°	363.7	18.8
120°-130°	351.0	18.2
130°-140°	304.9	15.8
140°-150°	251.3	13.0
150°-160°	198.0	10.3
160°-170°	137.4	7.1
170°-180°	51.6	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°	636.6	33.0
90°-150°	1543.8	80.0
90°-180°	1931.0	100.0
0°-180°	1930.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	1	10	13	12	15	18
105°	397	638	125	16	15	390
115°	679	774	408	20	15	660
125°	663	755	514	27	20	606
135°	653	693	554	38	29	508
145°	640	648	544	76	43	406
155°	630	622	530	187	101	291
165°	614	597	544	370	267	175
175°	588	577	558	522	498	56
180°	561	561	561	561	561	



TEST NUMBER: P508481

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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	3.2	2.1	2.1	3.2	4.3	5.4	2.1
95°	1.1	1.1	2.1	27.9	83.8	92.4	88.1	84.9	74.1	64.4	16.1
97.5°	22.6	26.9	43.0	114.9	233.1	268.5	285.7	234.1	192.3	178.3	95.6
100°	87.0	101.0	139.6	264.2	394.2	402.8	399.6	388.8	357.7	337.3	258.9
102.5°	232.0	241.7	295.4	406.0	476.9	491.9	491.9	482.3	479.0	472.6	447.9
105°	397.4	408.1	451.1	508.0	551.0	567.1	575.7	597.2	618.7	621.9	645.5
107.5°	508.0	518.8	552.1	595.0	650.9	671.3	696.0	730.4	757.2	754.0	748.6
110°	602.6	614.4	645.5	688.5	729.3	754.0	777.6	792.7	807.7	792.7	785.1
112.5°	660.6	665.9	691.7	727.1	754.0	772.3	788.4	807.7	823.8	807.7	794.8
115°	678.8	682.0	704.6	729.3	758.3	775.5	787.3	807.7	814.1	810.9	800.2
117.5°	677.7	691.7	711.0	728.2	756.1	770.1	781.9	798.0	817.4	808.8	798.0
120°	687.4	688.5	708.9	729.3	749.7	761.5	761.5	785.1	793.7	791.6	789.4
122.5°	684.2	687.4	704.6	717.5	739.0	748.6	758.3	770.1	779.8	776.6	776.6
125°	662.7	683.1	692.8	707.8	728.2	734.7	744.3	754.0	762.6	759.4	758.3
127.5°	675.6	676.7	685.3	701.4	714.3	718.6	729.3	737.9	746.5	745.4	747.6
130°	670.2	667.0	687.4	693.9	703.5	711.0	716.4	723.9	730.4	730.4	732.5
132.5°	665.9	665.9	672.4	685.3	693.9	699.2	707.8	710.0	717.5	719.6	715.3
135°	653.0	661.6	671.3	675.6	685.3	689.6	693.9	698.1	704.6	706.7	699.2
137.5°	640.1	653.0	665.9	672.4	679.9	679.9	679.9	686.3	689.6	692.8	685.3
140°	654.1	653.0	664.9	663.8	668.1	667.0	674.5	675.6	679.9	677.7	673.4
142.5°	650.9	650.9	654.1	658.4	657.3	659.5	664.9	670.2	670.2	672.4	664.9
145°	640.1	643.4	648.7	653.0	653.0	652.0	658.4	659.5	661.6	660.6	656.3
147.5°	644.4	644.4	644.4	649.8	649.8	649.8	650.9	652.0	652.0	653.0	649.8
150°	641.2	642.3	644.4	642.3	647.7	639.1	644.4	644.4	644.4	645.5	643.4
152.5°	619.7	634.8	640.1	639.1	634.8	636.9	638.0	642.3	640.1	642.3	635.9
155°	630.5	629.4	630.5	631.6	628.3	630.5	631.6	631.6	630.5	631.6	626.2
157.5°	627.3	626.2	631.6	625.1	628.3	630.5	626.2	629.4	626.2	630.5	628.3
160°	624.0	621.9	626.2	621.9	626.2	620.8	617.6	623.0	619.7	627.3	616.5
162.5°	619.7	618.7	623.0	617.6	613.3	611.1	614.4	615.4	613.3	615.4	610.1
165°	614.4	614.4	614.4	609.0	612.2	612.2	607.9	609.0	595.0	610.1	603.6
167.5°	610.1	614.4	609.0	603.6	610.1	610.1	602.6	603.6	594.0	601.5	598.3
170°	604.7	600.4	601.5	601.5	606.9	597.2	591.8	601.5	596.1	601.5	596.1
172.5°	591.8	596.1	596.1	594.0	590.7	590.7	589.7	591.8	588.6	589.7	586.4
175°	587.5	587.5	589.7	592.9	586.4	585.4	578.9	584.3	581.1	583.2	580.0
177.5°	571.4	580.0	578.9	571.4	575.7	569.3	572.5	574.6	568.2	573.6	568.2
180°	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7



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CATALOG NUMBER: ASYX-X-SL-X-U-HSS-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°	2.1	2.1	2.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
95°	9.7	12.9	31.1	25.8	19.3	18.3	20.4	18.3	16.1	14.0	12.9
97.5°	77.3	87.0	91.3	80.6	79.5	73.0	65.5	49.4	45.1	39.7	31.1
100°	211.6	188.0	176.1	156.8	126.7	114.9	105.3	87.0	70.9	62.3	52.6
102.5°	404.9	360.9	304.0	243.8	198.7	181.5	162.2	135.3	113.9	94.5	78.4
105°	638.0	554.2	443.6	363.0	302.9	265.3	248.1	205.1	169.7	148.2	124.6
107.5°	715.3	661.6	592.9	509.1	438.2	403.9	366.3	309.3	264.2	224.5	189.0
110°	747.6	701.4	649.8	600.4	552.1	520.9	495.1	437.1	381.3	331.9	282.5
112.5°	763.7	717.5	672.4	632.6	595.0	577.9	559.6	513.4	470.4	423.2	364.1
115°	774.4	737.9	698.1	656.3	627.3	609.0	592.9	551.0	511.3	468.3	408.1
117.5°	779.8	743.3	714.3	679.9	649.8	634.8	617.6	580.0	540.3	500.5	440.4
120°	773.3	748.6	725.0	696.0	667.0	652.0	638.0	600.4	563.9	526.3	467.2
122.5°	764.7	750.8	732.5	703.5	682.0	669.1	657.3	619.7	587.5	544.6	490.9
125°	755.1	741.1	721.8	703.5	686.3	676.7	668.1	634.8	601.5	565.0	514.5
127.5°	740.0	727.1	712.1	697.1	684.2	674.5	671.3	642.3	611.1	578.9	527.4
130°	723.9	713.2	700.3	685.3	676.7	665.9	667.0	641.2	616.5	586.4	540.3
132.5°	702.4	694.9	691.7	675.6	667.0	661.6	654.1	636.9	616.5	592.9	548.9
135°	692.8	685.3	679.9	665.9	653.0	650.9	640.1	630.5	613.3	596.1	554.2
137.5°	675.6	671.3	668.1	653.0	640.1	640.1	636.9	624.0	609.0	585.4	549.9
140°	668.1	662.7	654.1	642.3	634.8	628.3	625.1	614.4	596.1	577.9	548.9
142.5°	655.2	650.9	648.7	638.0	626.2	619.7	613.3	601.5	588.6	575.7	544.6
145°	647.7	646.6	644.4	633.7	615.4	612.2	610.1	597.2	585.4	565.0	543.5
147.5°	638.0	639.1	636.9	624.0	612.2	604.7	599.3	587.5	578.9	561.7	534.9
150°	631.6	632.6	630.5	614.4	601.5	598.3	596.1	584.3	568.2	554.2	531.7
152.5°	628.3	625.1	619.7	613.3	599.3	591.8	589.7	576.8	568.2	551.0	529.5
155°	621.9	617.6	614.4	603.6	595.0	587.5	582.1	574.6	565.0	547.8	529.5
157.5°	615.4	611.1	609.0	606.9	595.0	584.3	583.2	574.6	559.6	546.7	531.7
160°	609.0	598.3	606.9	594.0	590.7	582.1	575.7	570.3	559.6	547.8	534.9
162.5°	602.6	599.3	598.3	590.7	584.3	578.9	569.3	572.5	559.6	548.9	539.2
165°	597.2	594.0	592.9	590.7	581.1	576.8	574.6	568.2	562.8	552.1	543.5
167.5°	591.8	586.4	588.6	586.4	574.6	577.9	572.5	568.2	565.0	556.4	547.8
170°	590.7	580.0	585.4	584.3	575.7	574.6	568.2	567.1	563.9	557.4	553.1
172.5°	585.4	577.9	581.1	577.9	573.6	570.3	570.3	571.4	566.0	561.7	556.4
175°	576.8	572.5	573.6	576.8	570.3	568.2	562.8	567.1	568.2	560.7	558.5
177.5°	567.1	571.4	568.2	572.5	567.1	566.0	562.8	566.0	566.0	559.6	559.6
180°	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7



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CATALOG NUMBER: ASYX-X-SL-X-U-HSS-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°	3.2	4.3	4.3	5.4	6.4	6.4	7.5	7.5	8.6	9.7	10.7
95°	6.4	5.4	6.4	7.5	7.5	8.6	9.7	9.7	10.7	11.8	11.8
97.5°	12.9	8.6	8.6	8.6	9.7	9.7	10.7	11.8	12.9	12.9	12.9
100°	24.7	14.0	14.0	10.7	10.7	11.8	11.8	12.9	14.0	14.0	14.0
102.5°	43.0	25.8	20.4	14.0	12.9	12.9	14.0	14.0	15.0	15.0	15.0
105°	80.6	51.6	29.0	17.2	16.1	15.0	15.0	15.0	16.1	16.1	16.1
107.5°	141.8	82.7	40.8	22.6	19.3	17.2	17.2	17.2	17.2	17.2	17.2
110°	215.9	121.4	55.9	29.0	23.6	20.4	19.3	19.3	18.3	18.3	18.3
112.5°	283.6	159.0	70.9	35.4	27.9	23.6	21.5	20.4	20.4	19.3	18.3
115°	326.5	186.9	85.9	40.8	32.2	26.9	22.6	22.6	21.5	20.4	19.3
117.5°	357.7	215.9	104.2	49.4	37.6	31.1	24.7	23.6	22.6	22.6	21.5
120°	387.7	246.0	123.5	59.1	45.1	35.4	27.9	25.8	24.7	23.6	22.6
122.5°	416.7	275.0	145.0	70.9	52.6	41.9	31.1	27.9	26.9	24.7	24.7
125°	439.3	305.0	169.7	85.9	63.4	49.4	35.4	30.1	27.9	26.9	25.8
127.5°	464.0	335.1	195.5	102.0	75.2	59.1	40.8	33.3	31.1	29.0	27.9
130°	482.3	364.1	223.4	123.5	92.4	70.9	48.3	37.6	33.3	31.1	30.1
132.5°	496.2	388.8	251.3	147.1	112.8	85.9	58.0	45.1	37.6	34.4	32.2
135°	500.5	410.3	280.3	172.9	134.3	105.3	70.9	53.7	43.0	37.6	35.4
137.5°	504.8	427.5	308.3	201.9	162.2	128.9	85.9	64.4	51.6	44.0	38.7
140°	502.7	440.4	335.1	234.1	191.2	154.7	106.3	78.4	62.3	52.6	45.1
142.5°	501.6	451.1	363.0	264.2	221.3	184.7	131.0	96.7	76.3	62.3	53.7
145°	503.7	458.6	383.4	296.4	256.7	219.1	161.1	118.1	93.4	76.3	66.6
147.5°	496.2	462.9	408.1	324.4	287.9	251.3	193.3	147.1	117.1	95.6	81.6
150°	502.7	465.1	418.9	352.3	317.9	284.6	228.8	180.4	146.1	120.3	103.1
152.5°	501.6	467.2	430.7	377.0	348.0	316.9	261.0	213.7	177.2	150.4	130.0
155°	507.0	468.3	442.5	401.7	375.9	348.0	297.5	252.4	213.7	186.9	163.3
157.5°	511.3	482.3	456.5	424.3	401.7	378.1	335.1	293.2	256.7	228.8	199.8
160°	517.7	489.8	467.2	442.5	427.5	402.8	371.6	338.3	302.9	272.8	249.2
162.5°	520.9	501.6	482.3	457.6	447.9	430.7	404.9	380.2	350.1	322.2	299.7
165°	527.4	508.0	495.1	474.7	465.1	450.0	433.9	411.4	393.1	369.5	352.3
167.5°	533.8	520.9	510.2	494.1	485.5	474.7	460.8	445.7	436.1	417.8	400.6
170°	540.3	529.5	524.1	516.6	503.7	495.1	488.7	478.0	465.1	456.5	446.8
172.5°	545.6	541.3	538.1	536.0	523.1	516.6	512.3	500.5	500.5	488.7	481.2
175°	554.2	540.3	549.9	544.6	540.3	534.9	532.7	529.5	526.3	522.0	517.7
177.5°	558.5	556.4	558.5	556.4	555.3	549.9	553.1	549.9	548.9	547.8	544.6
180°	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7



TEST NUMBER: P508481

CATALOG NUMBER: ASYX-X-SL-X-U-HSS-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°	11.8	11.8	12.9	12.9	12.9	12.9	14.0	12.9	11.8
95°	12.9	14.0	14.0	14.0	15.0	15.0	15.0	15.0	15.0
97.5°	14.0	14.0	15.0	15.0	15.0	16.1	16.1	16.1	16.1
100°	15.0	15.0	15.0	16.1	16.1	16.1	16.1	16.1	16.1
102.5°	15.0	15.0	15.0	16.1	16.1	16.1	16.1	16.1	16.1
105°	16.1	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
107.5°	16.1	16.1	15.0	15.0	15.0	15.0	15.0	15.0	15.0
110°	17.2	16.1	15.0	15.0	15.0	15.0	15.0	15.0	14.0
112.5°	18.3	17.2	16.1	15.0	15.0	15.0	15.0	14.0	14.0
115°	19.3	18.3	17.2	17.2	16.1	16.1	16.1	15.0	15.0
117.5°	20.4	19.3	18.3	18.3	17.2	17.2	16.1	16.1	16.1
120°	21.5	21.5	20.4	19.3	19.3	18.3	18.3	17.2	17.2
122.5°	23.6	21.5	21.5	21.5	21.5	20.4	19.3	19.3	19.3
125°	24.7	23.6	23.6	23.6	22.6	22.6	21.5	20.4	20.4
127.5°	26.9	25.8	25.8	24.7	24.7	23.6	23.6	22.6	22.6
130°	29.0	27.9	26.9	26.9	26.9	25.8	25.8	24.7	24.7
132.5°	31.1	30.1	30.1	29.0	29.0	27.9	27.9	26.9	26.9
135°	34.4	32.2	32.2	32.2	31.1	30.1	30.1	30.1	29.0
137.5°	36.5	35.4	34.4	33.3	33.3	33.3	32.2	32.2	32.2
140°	41.9	38.7	37.6	36.5	36.5	35.4	35.4	35.4	35.4
142.5°	48.3	45.1	41.9	40.8	39.7	38.7	38.7	37.6	37.6
145°	59.1	53.7	49.4	48.3	46.2	44.0	44.0	43.0	43.0
147.5°	72.0	65.5	60.1	58.0	56.9	54.8	52.6	51.6	50.5
150°	90.2	80.6	75.2	73.0	70.9	66.6	64.4	63.4	63.4
152.5°	113.9	103.1	94.5	90.2	88.1	83.8	80.6	79.5	80.6
155°	142.9	130.0	121.4	116.0	111.7	106.3	104.2	103.1	101.0
157.5°	183.7	166.5	153.6	149.3	143.9	138.6	135.3	132.1	130.0
160°	227.7	208.4	196.6	191.2	184.7	176.1	171.9	167.6	165.4
162.5°	276.0	259.9	246.0	237.4	234.1	223.4	219.1	213.7	214.8
165°	329.7	312.6	301.8	295.4	286.8	281.4	278.2	270.7	267.4
167.5°	386.7	367.3	362.0	353.4	345.9	338.3	338.3	335.1	331.9
170°	429.6	425.3	418.9	409.2	408.1	402.8	402.8	399.6	400.6
172.5°	470.4	464.0	464.0	460.8	457.6	455.4	450.0	452.2	452.2
175°	511.3	508.0	505.9	497.3	499.4	499.4	496.2	496.2	498.4
177.5°	544.6	544.6	542.4	541.3	540.3	541.3	542.4	543.5	541.3
180°	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7

(END OF REPORT)