

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: P508480

Luminaire Tested: **ASYX-X-SL-X-U-HSS-L30-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508480
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-L30-1-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

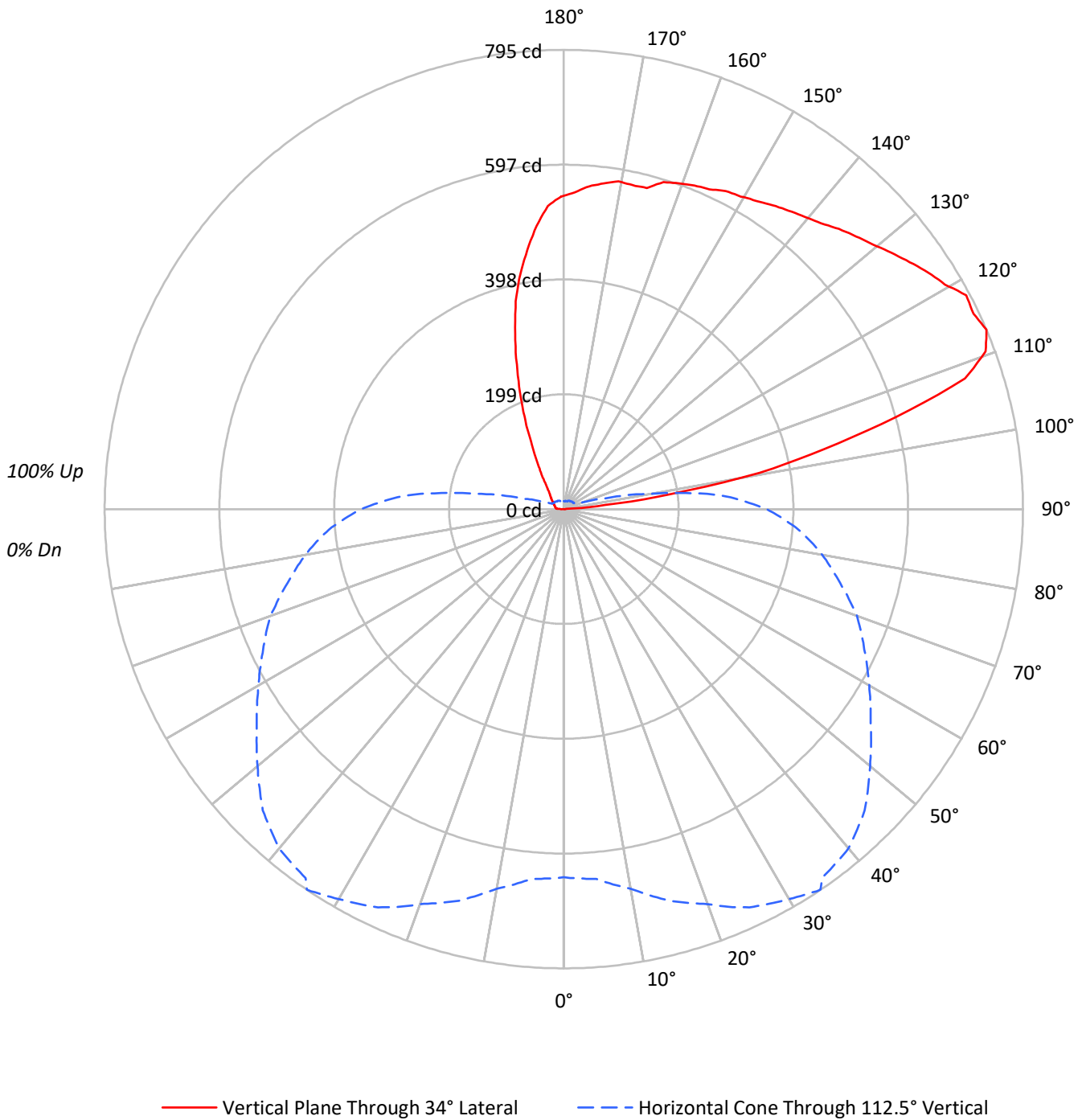
Lumens per Lamp: N/A
Luminaire Lumens: 1864.3 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Indirect

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: P508480
CATALOG NUMBER: ASYX-X-SL-X-U-HSS-L30-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot





TEST NUMBER: P508480

CATALOG NUMBER: ASYX-X-SL-X-U-HSS-L30-1-UNV-X-X-X-STD

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°	494	6126	7163
100°	20828	12596	3868
105°	63830	20012	2412
110°	73241	34329	1699
115°	66771	40150	1477
120°	57152	38845	1429
125°	48034	37285	1479
130°	43345	34938	1601
135°	38391	32582	1705
140°	35499	29783	1922
145°	32488	27579	2181
150°	30779	25519	3043
155°	28917	24290	4632
160°	27606	23661	7317
165°	26442	23388	11509
170°	25528	23351	16911
175°	24519	23309	20798



TEST NUMBER: P508480

CATALOG NUMBER: ASYX-X-SL-X-U-HSS-L30-1-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°	36.3	1.9
100°-110°	227.2	12.2
110°-120°	351.2	18.8
120°-130°	338.9	18.2
130°-140°	294.4	15.8
140°-150°	242.6	13.0
150°-160°	191.2	10.3
160°-170°	132.6	7.1
170°-180°	49.9	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°	614.7	33.0
90°-150°	1490.6	80.0
90°-180°	1864.0	100.0
0°-180°	1864.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	1	9	12	11	14	18
105°	384	616	120	16	14	377
115°	655	748	394	20	14	637
125°	640	729	497	26	20	585
135°	630	669	535	36	28	490
145°	618	625	525	74	42	392
155°	609	600	511	180	98	280
165°	593	577	525	357	258	168
175°	567	557	539	504	481	54
180°	541	541	541	541	541	



TEST NUMBER: P508480

CATALOG NUMBER: ASYX-X-SL-X-U-HSS-L30-1-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	1.0	1.0	3.1	2.1	2.1	3.1	4.1	5.2	2.1
95°	1.0	1.0	2.1	27.0	80.9	89.2	85.0	81.9	71.6	62.2	15.6
97.5°	21.8	25.9	41.5	111.0	225.0	259.3	275.9	226.1	185.6	172.1	92.3
100°	84.0	97.5	134.8	255.1	380.6	388.9	385.8	375.4	345.3	325.6	249.9
102.5°	224.0	233.3	285.2	392.0	460.4	475.0	475.0	465.6	462.5	456.3	432.4
105°	383.7	394.1	435.6	490.5	532.0	547.6	555.9	576.6	597.3	600.4	623.3
107.5°	490.5	500.9	533.0	574.5	628.4	648.1	672.0	705.2	731.1	728.0	722.8
110°	581.8	593.2	623.3	664.7	704.1	728.0	750.8	765.3	779.9	765.3	758.1
112.5°	637.8	643.0	667.9	702.1	728.0	745.6	761.2	779.9	795.4	779.9	767.4
115°	655.4	658.5	680.3	704.1	732.1	748.7	760.1	779.9	786.1	783.0	772.6
117.5°	654.4	667.9	686.5	703.1	730.1	743.6	755.0	770.5	789.2	780.9	770.5
120°	663.7	664.7	684.4	704.1	723.9	735.3	735.3	758.1	766.4	764.3	762.2
122.5°	660.6	663.7	680.3	692.7	713.5	722.8	732.1	743.6	752.9	749.8	749.8
125°	639.9	659.6	668.9	683.4	703.1	709.3	718.7	728.0	736.3	733.2	732.1
127.5°	652.3	653.3	661.6	677.2	689.6	693.8	704.1	712.4	720.7	719.7	721.8
130°	647.1	644.0	663.7	669.9	679.3	686.5	691.7	699.0	705.2	705.2	707.3
132.5°	643.0	643.0	649.2	661.6	669.9	675.1	683.4	685.5	692.7	694.8	690.7
135°	630.5	638.8	648.1	652.3	661.6	665.8	669.9	674.1	680.3	682.4	675.1
137.5°	618.1	630.5	643.0	649.2	656.4	656.4	656.4	662.7	665.8	668.9	661.6
140°	631.6	630.5	641.9	640.9	645.0	644.0	651.3	652.3	656.4	654.4	650.2
142.5°	628.4	628.4	631.6	635.7	634.7	636.7	641.9	647.1	647.1	649.2	641.9
145°	618.1	621.2	626.4	630.5	630.5	629.5	635.7	636.7	638.8	637.8	633.6
147.5°	622.2	622.2	622.2	627.4	627.4	627.4	628.4	629.5	629.5	630.5	627.4
150°	619.1	620.1	622.2	620.1	625.3	617.0	622.2	622.2	622.2	623.3	621.2
152.5°	598.4	612.9	618.1	617.0	612.9	615.0	616.0	620.1	618.1	620.1	613.9
155°	608.7	607.7	608.7	609.8	606.7	608.7	609.8	609.8	608.7	609.8	604.6
157.5°	605.6	604.6	609.8	603.6	606.7	608.7	604.6	607.7	604.6	608.7	606.7
160°	602.5	600.4	604.6	600.4	604.6	599.4	596.3	601.5	598.4	605.6	595.3
162.5°	598.4	597.3	601.5	596.3	592.1	590.1	593.2	594.2	592.1	594.2	589.0
165°	593.2	593.2	593.2	588.0	591.1	591.1	587.0	588.0	574.5	589.0	582.8
167.5°	589.0	593.2	588.0	582.8	589.0	589.0	581.8	582.8	573.5	580.7	577.6
170°	583.9	579.7	580.7	580.7	585.9	576.6	571.4	580.7	575.6	580.7	575.6
172.5°	571.4	575.6	575.6	573.5	570.4	570.4	569.3	571.4	568.3	569.3	566.2
175°	567.3	567.3	569.3	572.4	566.2	565.2	559.0	564.1	561.0	563.1	560.0
177.5°	551.7	560.0	559.0	551.7	555.9	549.6	552.7	554.8	548.6	553.8	548.6
180°	541.3	541.3	541.3	541.3	541.3	541.3	541.3	541.3	541.3	541.3	541.3



TEST NUMBER: P508480

CATALOG NUMBER: ASYX-X-SL-X-U-HSS-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°	2.1	2.1	2.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
95°	9.3	12.4	30.1	24.9	18.7	17.6	19.7	17.6	15.6	13.5	12.4
97.5°	74.7	84.0	88.1	77.8	76.7	70.5	63.3	47.7	43.6	38.4	30.1
100°	204.3	181.5	170.1	151.4	122.4	111.0	101.6	84.0	68.4	60.1	50.8
102.5°	391.0	348.4	293.5	235.4	191.9	175.3	156.6	130.7	109.9	91.3	75.7
105°	616.0	535.1	428.3	350.5	292.4	256.1	239.6	198.1	163.9	143.1	120.3
107.5°	690.7	638.8	572.4	491.6	423.1	389.9	353.6	298.7	255.1	216.7	182.5
110°	721.8	677.2	627.4	579.7	533.0	503.0	478.1	422.1	368.1	320.4	272.7
112.5°	737.3	692.7	649.2	610.8	574.5	557.9	540.3	495.7	454.2	408.6	351.6
115°	747.7	712.4	674.1	633.6	605.6	588.0	572.4	532.0	493.6	452.1	394.1
117.5°	752.9	717.6	689.6	656.4	627.4	612.9	596.3	560.0	521.6	483.3	425.2
120°	746.7	722.8	700.0	672.0	644.0	629.5	616.0	579.7	544.4	508.1	451.1
122.5°	738.4	724.9	707.3	679.3	658.5	646.1	634.7	598.4	567.3	525.8	473.9
125°	729.0	715.6	696.9	679.3	662.7	653.3	645.0	612.9	580.7	545.5	496.7
127.5°	714.5	702.1	687.6	673.0	660.6	651.3	648.1	620.1	590.1	559.0	509.2
130°	699.0	688.6	676.1	661.6	653.3	643.0	644.0	619.1	595.3	566.2	521.6
132.5°	678.2	671.0	667.9	652.3	644.0	638.8	631.6	615.0	595.3	572.4	529.9
135°	668.9	661.6	656.4	643.0	630.5	628.4	618.1	608.7	592.1	575.6	535.1
137.5°	652.3	648.1	645.0	630.5	618.1	618.1	615.0	602.5	588.0	565.2	531.0
140°	645.0	639.9	631.6	620.1	612.9	606.7	603.6	593.2	575.6	557.9	529.9
142.5°	632.6	628.4	626.4	616.0	604.6	598.4	592.1	580.7	568.3	555.9	525.8
145°	625.3	624.3	622.2	611.9	594.2	591.1	589.0	576.6	565.2	545.5	524.7
147.5°	616.0	617.0	615.0	602.5	591.1	583.9	578.7	567.3	559.0	542.4	516.4
150°	609.8	610.8	608.7	593.2	580.7	577.6	575.6	564.1	548.6	535.1	513.3
152.5°	606.7	603.6	598.4	592.1	578.7	571.4	569.3	556.9	548.6	532.0	511.3
155°	600.4	596.3	593.2	582.8	574.5	567.3	562.1	554.8	545.5	528.9	511.3
157.5°	594.2	590.1	588.0	585.9	574.5	564.1	563.1	554.8	540.3	527.9	513.3
160°	588.0	577.6	585.9	573.5	570.4	562.1	555.9	550.7	540.3	528.9	516.4
162.5°	581.8	578.7	577.6	570.4	564.1	559.0	549.6	552.7	540.3	529.9	520.6
165°	576.6	573.5	572.4	570.4	561.0	556.9	554.8	548.6	543.4	533.0	524.7
167.5°	571.4	566.2	568.3	566.2	554.8	557.9	552.7	548.6	545.5	537.2	528.9
170°	570.4	560.0	565.2	564.1	555.9	554.8	548.6	547.6	544.4	538.2	534.1
172.5°	565.2	557.9	561.0	557.9	553.8	550.7	550.7	551.7	546.5	542.4	537.2
175°	556.9	552.7	553.8	556.9	550.7	548.6	543.4	547.6	548.6	541.3	539.3
177.5°	547.6	551.7	548.6	552.7	547.6	546.5	543.4	546.5	546.5	540.3	540.3
180°	541.3	541.3	541.3	541.3	541.3	541.3	541.3	541.3	541.3	541.3	541.3



TEST NUMBER: P508480

CATALOG NUMBER: ASYX-X-SL-X-U-HSS-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°	3.1	4.1	4.1	5.2	6.2	6.2	7.3	7.3	8.3	9.3	10.4
95°	6.2	5.2	6.2	7.3	7.3	8.3	9.3	9.3	10.4	11.4	11.4
97.5°	12.4	8.3	8.3	8.3	9.3	9.3	10.4	11.4	12.4	12.4	12.4
100°	23.9	13.5	13.5	10.4	10.4	11.4	11.4	12.4	13.5	13.5	13.5
102.5°	41.5	24.9	19.7	13.5	12.4	12.4	13.5	13.5	14.5	14.5	14.5
105°	77.8	49.8	28.0	16.6	15.6	14.5	14.5	14.5	15.6	15.6	15.6
107.5°	136.9	79.9	39.4	21.8	18.7	16.6	16.6	16.6	16.6	16.6	16.6
110°	208.4	117.2	53.9	28.0	22.8	19.7	18.7	18.7	17.6	17.6	17.6
112.5°	273.8	153.5	68.4	34.2	27.0	22.8	20.7	19.7	19.7	18.7	17.6
115°	315.3	180.4	83.0	39.4	31.1	25.9	21.8	21.8	20.7	19.7	18.7
117.5°	345.3	208.4	100.6	47.7	36.3	30.1	23.9	22.8	21.8	21.8	20.7
120°	374.4	237.5	119.3	57.0	43.6	34.2	27.0	24.9	23.9	22.8	21.8
122.5°	402.4	265.5	140.0	68.4	50.8	40.4	30.1	27.0	25.9	23.9	23.9
125°	424.1	294.5	163.9	83.0	61.2	47.7	34.2	29.0	27.0	25.9	24.9
127.5°	448.0	323.6	188.7	98.5	72.6	57.0	39.4	32.1	30.1	28.0	27.0
130°	465.6	351.6	215.7	119.3	89.2	68.4	46.7	36.3	32.1	30.1	29.0
132.5°	479.1	375.4	242.7	142.1	108.9	83.0	56.0	43.6	36.3	33.2	31.1
135°	483.3	396.1	270.7	167.0	129.6	101.6	68.4	51.9	41.5	36.3	34.2
137.5°	487.4	412.7	297.6	195.0	156.6	124.4	83.0	62.2	49.8	42.5	37.3
140°	485.3	425.2	323.6	226.1	184.6	149.3	102.7	75.7	60.1	50.8	43.6
142.5°	484.3	435.6	350.5	255.1	213.6	178.4	126.5	93.3	73.6	60.1	51.9
145°	486.4	442.8	370.2	286.2	247.9	211.6	155.6	114.1	90.2	73.6	64.3
147.5°	479.1	447.0	394.1	313.2	277.9	242.7	186.7	142.1	113.0	92.3	78.8
150°	485.3	449.0	404.4	340.1	307.0	274.8	220.9	174.2	141.0	116.1	99.6
152.5°	484.3	451.1	415.9	364.0	336.0	305.9	252.0	206.4	171.1	145.2	125.5
155°	489.5	452.1	427.3	387.9	363.0	336.0	287.3	243.7	206.4	180.4	157.6
157.5°	493.6	465.6	440.7	409.6	387.9	365.0	323.6	283.1	247.9	220.9	192.9
160°	499.9	472.9	451.1	427.3	412.7	388.9	358.8	326.7	292.4	263.4	240.6
162.5°	503.0	484.3	465.6	441.8	432.4	415.9	391.0	367.1	338.1	311.1	289.3
165°	509.2	490.5	478.1	458.4	449.0	434.5	419.0	397.2	379.6	356.7	340.1
167.5°	515.4	503.0	492.6	477.0	468.7	458.4	444.9	430.4	421.0	403.4	386.8
170°	521.6	511.3	506.1	498.8	486.4	478.1	471.9	461.5	449.0	440.7	431.4
172.5°	526.8	522.7	519.6	517.5	505.0	498.8	494.7	483.3	483.3	471.9	464.6
175°	535.1	521.6	531.0	525.8	521.6	516.4	514.4	511.3	508.1	504.0	499.9
177.5°	539.3	537.2	539.3	537.2	536.1	531.0	534.1	531.0	529.9	528.9	525.8
180°	541.3	541.3	541.3	541.3	541.3	541.3	541.3	541.3	541.3	541.3	541.3



TEST NUMBER: P508480

CATALOG NUMBER: ASYX-X-SL-X-U-HSS-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°	11.4	11.4	12.4	12.4	12.4	12.4	13.5	12.4	11.4
95°	12.4	13.5	13.5	13.5	14.5	14.5	14.5	14.5	14.5
97.5°	13.5	13.5	14.5	14.5	14.5	15.6	15.6	15.6	15.6
100°	14.5	14.5	14.5	15.6	15.6	15.6	15.6	15.6	15.6
102.5°	14.5	14.5	14.5	15.6	15.6	15.6	15.6	15.6	15.6
105°	15.6	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
107.5°	15.6	15.6	14.5	14.5	14.5	14.5	14.5	14.5	14.5
110°	16.6	15.6	14.5	14.5	14.5	14.5	14.5	14.5	13.5
112.5°	17.6	16.6	15.6	14.5	14.5	14.5	14.5	13.5	13.5
115°	18.7	17.6	16.6	16.6	15.6	15.6	15.6	14.5	14.5
117.5°	19.7	18.7	17.6	17.6	16.6	16.6	15.6	15.6	15.6
120°	20.7	20.7	19.7	18.7	18.7	17.6	17.6	16.6	16.6
122.5°	22.8	20.7	20.7	20.7	20.7	19.7	18.7	18.7	18.7
125°	23.9	22.8	22.8	22.8	21.8	21.8	20.7	19.7	19.7
127.5°	25.9	24.9	24.9	23.9	23.9	22.8	22.8	21.8	21.8
130°	28.0	27.0	25.9	25.9	25.9	24.9	24.9	23.9	23.9
132.5°	30.1	29.0	29.0	28.0	28.0	27.0	27.0	25.9	25.9
135°	33.2	31.1	31.1	31.1	30.1	29.0	29.0	29.0	28.0
137.5°	35.3	34.2	33.2	32.1	32.1	32.1	31.1	31.1	31.1
140°	40.4	37.3	36.3	35.3	35.3	34.2	34.2	34.2	34.2
142.5°	46.7	43.6	40.4	39.4	38.4	37.3	37.3	36.3	36.3
145°	57.0	51.9	47.7	46.7	44.6	42.5	42.5	41.5	41.5
147.5°	69.5	63.3	58.1	56.0	55.0	52.9	50.8	49.8	48.7
150°	87.1	77.8	72.6	70.5	68.4	64.3	62.2	61.2	61.2
152.5°	109.9	99.6	91.3	87.1	85.0	80.9	77.8	76.7	77.8
155°	137.9	125.5	117.2	112.0	107.9	102.7	100.6	99.6	97.5
157.5°	177.3	160.7	148.3	144.1	139.0	133.8	130.7	127.6	125.5
160°	219.9	201.2	189.8	184.6	178.4	170.1	165.9	161.8	159.7
162.5°	266.5	251.0	237.5	229.2	226.1	215.7	211.6	206.4	207.4
165°	318.4	301.8	291.4	285.2	276.9	271.7	268.6	261.3	258.2
167.5°	373.3	354.7	349.5	341.2	333.9	326.7	326.7	323.6	320.4
170°	414.8	410.7	404.4	395.1	394.1	388.9	388.9	385.8	386.8
172.5°	454.2	448.0	448.0	444.9	441.8	439.7	434.5	436.6	436.6
175°	493.6	490.5	488.4	480.1	482.2	482.2	479.1	479.1	481.2
177.5°	525.8	525.8	523.7	522.7	521.6	522.7	523.7	524.7	522.7
180°	541.3	541.3	541.3	541.3	541.3	541.3	541.3	541.3	541.3

(END OF REPORT)