

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: P508488

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

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508488
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-SL-X-U-W-L30-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(1) AF LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

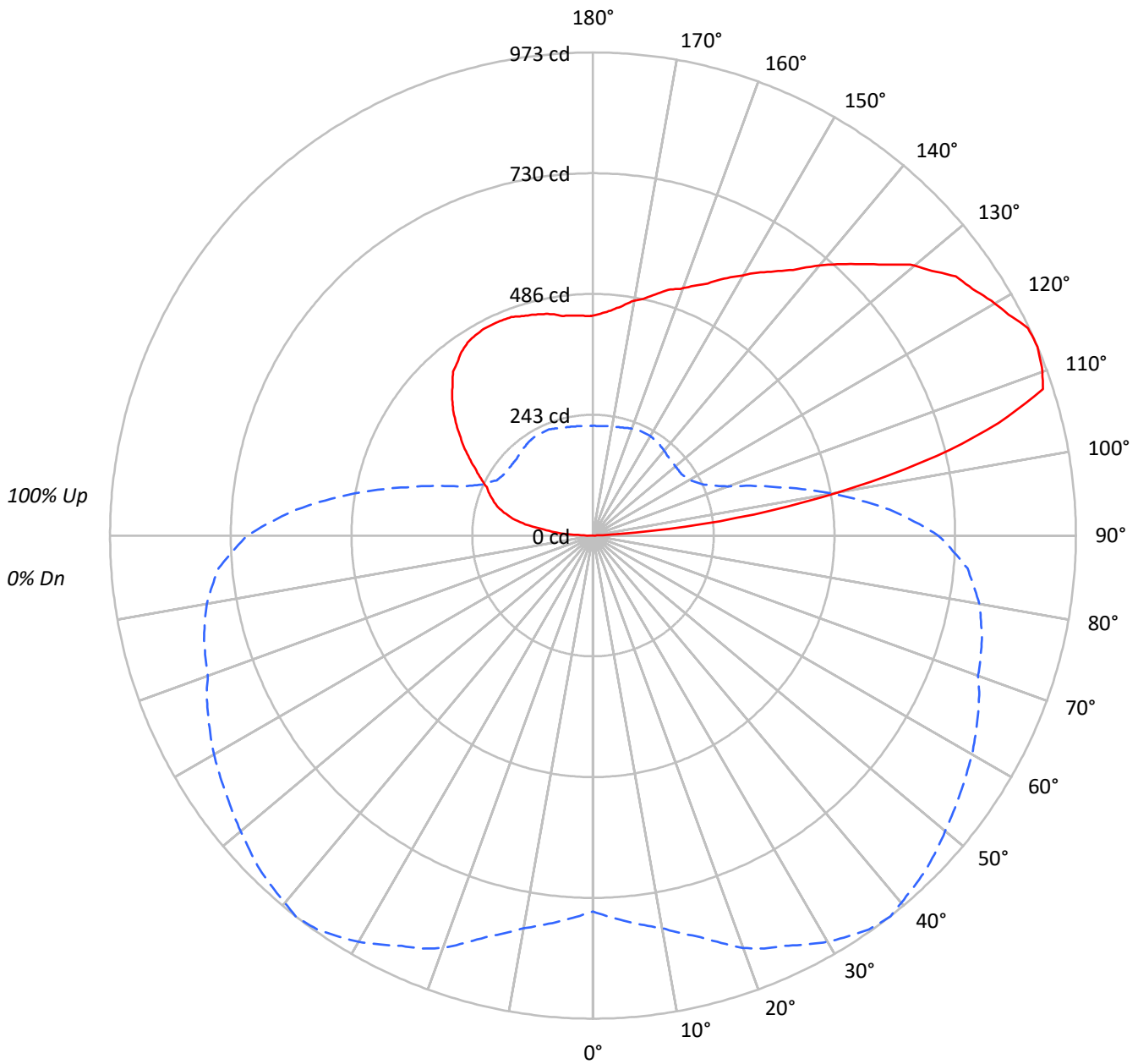
Lumens per Lamp: N/A
Luminaire Lumens: 2924.4 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Indirect

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: P508488
CATALOG NUMBER: ASYX-X-SL-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



TEST NUMBER: P508488

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

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	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°	27170	30233	38434
100°	74062	57350	34961
105°	74177	61235	32090
110°	82632	75330	27028
115°	87167	75543	22505
120°	81711	66530	20899
125°	71387	56907	20786
130°	61403	47236	21535
135°	52097	40540	21914
140°	43716	34504	22617
145°	36956	30359	22675
150°	31451	26911	22735
155°	27540	24091	22119
160°	24802	21952	21526
165°	22742	20665	20616
170°	21130	19678	19766
175°	19765	19185	19095



TEST NUMBER: P508488

CATALOG NUMBER: ASYX-X-SL-X-U-W-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°	119.7	4.1
100°-110°	433.3	14.8
110°-120°	584.0	20.0
120°-130°	555.9	19.0
130°-140°	463.1	15.8
140°-150°	350.9	12.0
150°-160°	238.8	8.2
160°-170°	135.7	4.6
170°-180°	43.2	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°	1137.0	38.9
90°-150°	2506.9	85.7
90°-180°	2924.0	100.0
0°-180°	2924.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	55	179	61	61	78	98
105°	446	910	368	163	193	484
115°	856	931	742	235	221	825
125°	951	851	758	316	277	849
135°	856	733	666	401	360	663
145°	703	625	578	456	431	445
155°	580	550	507	473	466	271
165°	510	495	464	460	462	146
175°	457	451	444	443	442	45
180°	442	442	442	442	442	



TEST NUMBER: P508488

CATALOG NUMBER: ASYX-X-SL-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°	8.3	8.3	8.3	9.3	10.4	11.4	11.4	14.5	18.7	19.7	22.8
95°	55.0	63.3	94.4	108.9	109.9	113.0	113.0	143.1	178.4	186.7	195.0
97.5°	147.3	157.6	190.8	216.7	254.1	264.4	276.9	301.8	340.1	363.0	374.4
100°	298.7	300.7	318.4	342.2	382.7	405.5	433.5	501.9	536.1	536.1	523.7
102.5°	378.5	380.6	396.1	419.0	466.7	500.9	533.0	616.0	685.5	711.4	721.8
105°	445.9	453.2	469.8	501.9	560.0	598.4	628.4	722.8	803.7	848.3	882.5
107.5°	532.0	543.4	571.4	608.7	678.2	722.8	761.2	837.9	908.4	953.0	952.0
110°	656.4	662.7	691.7	740.4	800.6	835.9	859.7	913.6	961.3	965.5	967.6
112.5°	757.0	779.9	802.7	836.9	883.6	900.1	911.6	944.7	968.6	972.7	965.5
115°	855.6	863.9	875.3	898.1	919.9	936.4	938.5	956.1	961.3	970.7	954.1
117.5°	916.7	920.9	921.9	930.2	941.6	951.0	948.9	954.1	960.3	947.9	939.6
120°	948.9	953.0	945.8	948.9	952.0	954.1	949.9	952.0	940.6	931.3	921.9
122.5°	961.3	960.3	953.0	953.0	948.9	947.9	939.6	932.3	924.0	911.6	900.1
125°	951.0	955.1	945.8	938.5	929.2	944.7	924.0	916.7	902.2	898.1	876.3
127.5°	937.5	945.8	930.2	923.0	913.6	910.5	898.1	887.7	877.3	865.9	851.4
130°	916.7	919.9	905.3	898.1	888.7	879.4	877.3	854.5	847.3	840.0	820.3
132.5°	896.0	890.8	876.3	867.0	855.6	850.4	845.2	825.5	815.1	799.6	789.2
135°	855.6	856.6	843.1	832.7	817.2	817.2	807.9	793.3	779.9	766.4	752.9
137.5°	817.2	824.4	804.7	795.4	787.1	780.9	768.4	755.0	740.4	735.3	724.9
140°	777.8	778.8	763.3	755.0	748.7	737.3	730.1	717.6	712.4	703.1	688.6
142.5°	743.6	739.4	727.0	717.6	711.4	703.1	699.0	686.5	678.2	669.9	664.7
145°	703.1	702.1	687.6	681.3	676.1	673.0	665.8	656.4	652.3	645.0	645.0
147.5°	668.9	663.7	655.4	648.1	641.9	638.8	638.8	622.2	625.3	624.3	615.0
150°	632.6	631.6	620.1	617.0	611.9	613.9	611.9	604.6	604.6	600.4	594.2
152.5°	603.6	603.6	594.2	592.1	590.1	589.0	584.9	581.8	581.8	580.7	573.5
155°	579.7	579.7	572.4	571.4	568.3	567.3	565.2	562.1	560.0	557.9	551.7
157.5°	560.0	559.0	550.7	551.7	548.6	548.6	547.6	541.3	543.4	542.4	538.2
160°	541.3	540.3	532.0	535.1	533.0	533.0	533.0	528.9	526.8	526.8	517.5
162.5°	524.7	526.8	518.5	517.5	518.5	518.5	514.4	511.3	514.4	517.5	508.1
165°	510.2	508.1	505.0	504.0	501.9	499.9	501.9	499.9	497.8	501.9	498.8
167.5°	495.7	497.8	491.6	489.5	489.5	493.6	490.5	486.4	488.4	487.4	481.2
170°	483.3	485.3	477.0	477.0	477.0	477.0	473.9	470.8	476.0	478.1	470.8
172.5°	470.8	473.9	466.7	465.6	464.6	466.7	464.6	461.5	467.7	464.6	461.5
175°	457.3	462.5	455.3	454.2	456.3	456.3	454.2	452.1	456.3	454.2	452.1
177.5°	451.1	451.1	443.9	444.9	444.9	443.9	447.0	445.9	447.0	447.0	451.1
180°	441.8	441.8	441.8	441.8	441.8	441.8	441.8	441.8	441.8	441.8	441.8



TEST NUMBER: P508488

CATALOG NUMBER: ASYX-X-SL-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°	23.9	28.0	30.1	16.6	16.6	18.7	17.6	15.6	13.5	12.4	12.4
95°	179.4	170.1	175.3	157.6	136.9	120.3	119.3	120.3	83.0	62.2	61.2
97.5°	385.8	381.6	349.5	299.7	285.2	286.2	268.6	223.0	186.7	159.7	137.9
100°	501.9	488.4	473.9	484.3	455.3	432.4	400.3	359.9	317.3	281.0	231.3
102.5°	715.6	694.8	641.9	583.9	525.8	505.0	481.2	435.6	391.0	348.4	297.6
105°	910.5	875.3	786.1	703.1	624.3	600.4	569.3	518.5	466.7	424.1	368.1
107.5°	957.2	931.3	881.5	825.5	757.0	717.6	688.6	633.6	584.9	526.8	462.5
110°	961.3	935.4	904.3	865.9	832.7	809.9	791.3	749.8	714.5	663.7	598.4
112.5°	949.9	926.1	903.3	881.5	855.6	842.1	825.5	811.0	790.2	757.0	695.9
115°	931.3	910.5	889.8	871.1	858.7	852.4	844.1	832.7	821.3	796.4	741.5
117.5°	913.6	889.8	871.1	864.9	853.5	844.1	843.1	841.0	833.8	821.3	768.4
120°	896.0	877.3	858.7	845.2	841.0	840.0	840.0	833.8	835.9	825.5	772.6
122.5°	868.0	853.5	837.9	831.7	814.1	818.2	820.3	816.1	824.4	817.2	767.4
125°	851.4	836.9	817.2	807.9	804.7	800.6	804.7	797.5	801.6	796.4	758.1
127.5°	823.4	804.7	794.4	787.1	785.0	770.5	777.8	778.8	779.9	771.6	737.3
130°	793.3	783.0	759.1	762.2	762.2	757.0	758.1	753.9	751.9	744.6	705.2
132.5°	771.6	758.1	742.5	738.4	734.2	733.2	733.2	725.9	725.9	716.6	690.7
135°	733.2	723.9	717.6	713.5	712.4	708.3	708.3	701.0	700.0	691.7	665.8
137.5°	706.2	696.9	691.7	688.6	685.5	678.2	682.4	676.1	669.9	667.9	643.0
140°	679.3	672.0	667.9	662.7	661.6	657.5	657.5	650.2	648.1	638.8	613.9
142.5°	656.4	652.3	644.0	641.9	634.7	635.7	630.5	631.6	623.3	612.9	593.2
145°	625.3	626.4	622.2	618.1	617.0	610.8	611.9	605.6	600.4	593.2	577.6
147.5°	608.7	608.7	602.5	597.3	593.2	592.1	587.0	588.0	579.7	569.3	559.0
150°	587.0	584.9	578.7	575.6	572.4	572.4	567.3	564.1	557.9	554.8	541.3
152.5°	571.4	566.2	563.1	556.9	556.9	551.7	547.6	545.5	540.3	534.1	523.7
155°	549.6	547.6	543.4	542.4	538.2	534.1	526.8	525.8	522.7	516.4	507.1
157.5°	532.0	535.1	528.9	525.8	519.6	518.5	511.3	512.3	506.1	501.9	493.6
160°	523.7	518.5	512.3	511.3	509.2	500.9	499.9	496.7	492.6	489.5	479.1
162.5°	505.0	504.0	500.9	498.8	491.6	491.6	479.1	484.3	481.2	478.1	472.9
165°	494.7	495.7	488.4	486.4	484.3	480.1	477.0	473.9	470.8	468.7	463.6
167.5°	481.2	479.1	477.0	472.9	473.9	470.8	467.7	465.6	463.6	461.5	457.3
170°	469.8	468.7	466.7	463.6	464.6	461.5	461.5	457.3	456.3	455.3	450.1
172.5°	460.4	460.4	458.4	458.4	457.3	454.2	452.1	450.1	450.1	448.0	447.0
175°	451.1	452.1	451.1	450.1	450.1	448.0	448.0	449.0	447.0	447.0	443.9
177.5°	443.9	443.9	443.9	443.9	443.9	443.9	443.9	442.8	443.9	442.8	439.7
180°	441.8	441.8	441.8	441.8	441.8	441.8	441.8	441.8	441.8	441.8	441.8



TEST NUMBER: P508488

CATALOG NUMBER: ASYX-X-SL-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°	13.5	14.5	15.6	16.6	19.7	18.7	21.8	22.8	24.9	29.0	30.1
95°	55.0	55.0	53.9	53.9	51.9	51.9	50.8	49.8	55.0	61.2	69.5
97.5°	113.0	96.4	88.1	85.0	84.0	83.0	80.9	77.8	79.9	85.0	95.4
100°	190.8	157.6	130.7	115.1	112.0	106.8	104.7	103.7	103.7	114.1	130.7
102.5°	246.8	198.1	162.8	140.0	133.8	128.6	125.5	125.5	127.6	140.0	158.7
105°	312.1	249.9	196.0	165.9	160.7	153.5	148.3	149.3	151.4	162.8	179.4
107.5°	391.0	316.3	252.0	205.3	193.9	183.6	175.3	175.3	176.3	183.6	196.0
110°	509.2	412.7	316.3	246.8	228.1	216.7	197.0	197.0	196.0	201.2	209.5
112.5°	599.4	487.4	377.5	288.3	262.4	243.7	223.0	216.7	216.7	217.8	223.0
115°	653.3	537.2	420.0	326.7	292.4	269.6	243.7	236.4	233.3	235.4	233.3
117.5°	684.4	567.3	456.3	354.7	322.5	296.6	264.4	255.1	249.9	254.1	253.0
120°	700.0	594.2	485.3	383.7	350.5	320.4	286.2	276.9	272.7	272.7	273.8
122.5°	702.1	608.7	501.9	409.6	376.4	347.4	312.1	298.7	294.5	295.6	295.6
125°	694.8	606.7	517.5	430.4	398.2	369.2	332.9	321.5	312.1	316.3	317.3
127.5°	683.4	601.5	526.8	447.0	417.9	392.0	358.8	345.3	337.0	339.1	338.1
130°	666.8	595.3	535.1	461.5	436.6	410.7	381.6	369.2	357.8	358.8	359.9
132.5°	650.2	593.2	539.3	472.9	452.1	430.4	401.3	388.9	378.5	379.6	379.6
135°	632.6	588.0	534.1	480.1	469.8	447.0	423.1	409.6	401.3	401.3	399.3
137.5°	613.9	575.6	538.2	494.7	480.1	461.5	437.6	427.3	419.0	417.9	416.9
140°	597.3	562.1	533.0	497.8	487.4	472.9	453.2	444.9	433.5	431.4	437.6
142.5°	580.7	555.9	538.2	505.0	494.7	482.2	467.7	456.3	448.0	445.9	444.9
145°	564.1	549.6	529.9	503.0	498.8	486.4	470.8	467.7	458.4	456.3	456.3
147.5°	547.6	535.1	520.6	501.9	501.9	491.6	484.3	475.0	467.7	463.6	463.6
150°	533.0	522.7	515.4	500.9	499.9	491.6	485.3	481.2	472.9	470.8	469.8
152.5°	519.6	510.2	504.0	494.7	493.6	482.2	484.3	480.1	471.9	469.8	469.8
155°	503.0	501.9	494.7	485.3	489.5	483.3	478.1	483.3	470.8	472.9	472.9
157.5°	491.6	490.5	489.5	480.1	481.2	478.1	475.0	479.1	468.7	469.8	469.8
160°	479.1	477.0	477.0	468.7	475.0	468.7	469.8	471.9	465.6	466.7	469.8
162.5°	472.9	468.7	468.7	465.6	467.7	465.6	460.4	467.7	466.7	464.6	465.6
165°	462.5	461.5	463.6	457.3	462.5	456.3	458.4	461.5	459.4	460.4	461.5
167.5°	456.3	455.3	456.3	453.2	456.3	454.2	453.2	457.3	455.3	456.3	457.3
170°	451.1	451.1	452.1	449.0	452.1	449.0	452.1	452.1	451.1	451.1	453.2
172.5°	449.0	445.9	449.0	443.9	449.0	442.8	444.9	448.0	447.0	445.9	445.9
175°	444.9	443.9	447.0	441.8	444.9	441.8	441.8	444.9	443.9	442.8	447.0
177.5°	444.9	441.8	444.9	439.7	442.8	440.7	440.7	443.9	441.8	441.8	444.9
180°	441.8	441.8	441.8	441.8	441.8	441.8	441.8	441.8	441.8	441.8	441.8



TEST NUMBER: P508488

CATALOG NUMBER: ASYX-X-SL-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°	30.1	35.3	36.3	39.4	38.4	32.1	28.0	22.8	19.7
95°	78.8	87.1	95.4	94.4	97.5	91.3	85.0	81.9	77.8
97.5°	105.8	119.3	127.6	127.6	128.6	124.4	122.4	124.4	119.3
100°	149.3	158.7	161.8	160.7	157.6	150.4	146.2	144.1	141.0
102.5°	175.3	185.6	188.7	186.7	184.6	181.5	177.3	175.3	174.2
105°	192.9	202.2	206.4	205.3	204.3	199.1	190.8	193.9	192.9
107.5°	209.5	215.7	219.9	216.7	215.7	212.6	207.4	210.5	206.4
110°	219.9	225.0	226.1	226.1	224.0	220.9	216.7	217.8	214.7
112.5°	228.1	231.3	231.3	231.3	229.2	225.0	223.0	220.9	220.9
115°	237.5	235.4	236.4	236.4	234.4	228.1	225.0	223.0	220.9
117.5°	254.1	251.0	247.9	247.9	242.7	238.5	235.4	232.3	229.2
120°	269.6	267.6	265.5	262.4	259.3	254.1	248.9	244.7	242.7
122.5°	290.4	285.2	282.1	284.1	277.9	272.7	266.5	262.4	257.2
125°	313.2	309.0	303.9	301.8	296.6	292.4	287.3	283.1	276.9
127.5°	332.9	326.7	324.6	323.6	317.3	312.1	303.9	300.7	300.7
130°	355.7	348.4	349.5	344.3	339.1	330.8	322.5	322.5	321.5
132.5°	377.5	369.2	368.1	366.1	359.9	353.6	348.4	347.4	343.3
135°	395.1	388.9	387.9	385.8	380.6	374.4	366.1	368.1	359.9
137.5°	410.7	407.6	406.5	402.4	397.2	396.1	386.8	385.8	380.6
140°	428.3	422.1	426.2	421.0	414.8	412.7	400.3	402.4	402.4
142.5°	440.7	437.6	436.6	434.5	430.4	426.2	423.1	419.0	421.0
145°	453.2	451.1	449.0	449.0	442.8	440.7	434.5	434.5	431.4
147.5°	463.6	459.4	459.4	457.3	454.2	452.1	445.9	449.0	443.9
150°	463.6	465.6	463.6	463.6	464.6	463.6	458.4	456.3	457.3
152.5°	471.9	468.7	466.7	470.8	465.6	468.7	461.5	463.6	461.5
155°	467.7	469.8	470.8	468.7	468.7	468.7	465.6	470.8	465.6
157.5°	471.9	469.8	470.8	469.8	467.7	470.8	467.7	471.9	468.7
160°	469.8	467.7	469.8	468.7	466.7	470.8	470.8	473.9	469.8
162.5°	462.5	464.6	469.8	466.7	466.7	473.9	462.5	472.9	466.7
165°	460.4	461.5	463.6	465.6	461.5	464.6	464.6	465.6	462.5
167.5°	458.4	454.2	458.4	458.4	459.4	459.4	459.4	461.5	457.3
170°	454.2	445.9	454.2	454.2	452.1	452.1	451.1	457.3	452.1
172.5°	447.0	444.9	448.0	448.0	450.1	449.0	449.0	450.1	447.0
175°	442.8	443.9	448.0	444.9	443.9	444.9	441.8	444.9	441.8
177.5°	440.7	440.7	441.8	442.8	444.9	442.8	439.7	442.8	439.7
180°	441.8	441.8	441.8	441.8	441.8	441.8	441.8	441.8	441.8

(END OF REPORT)