

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: P508415

Luminaire Tested: **ASYX-X-S1-X-U-HSS-L27-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508415
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-S1-X-U-HSS-L27-1-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: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

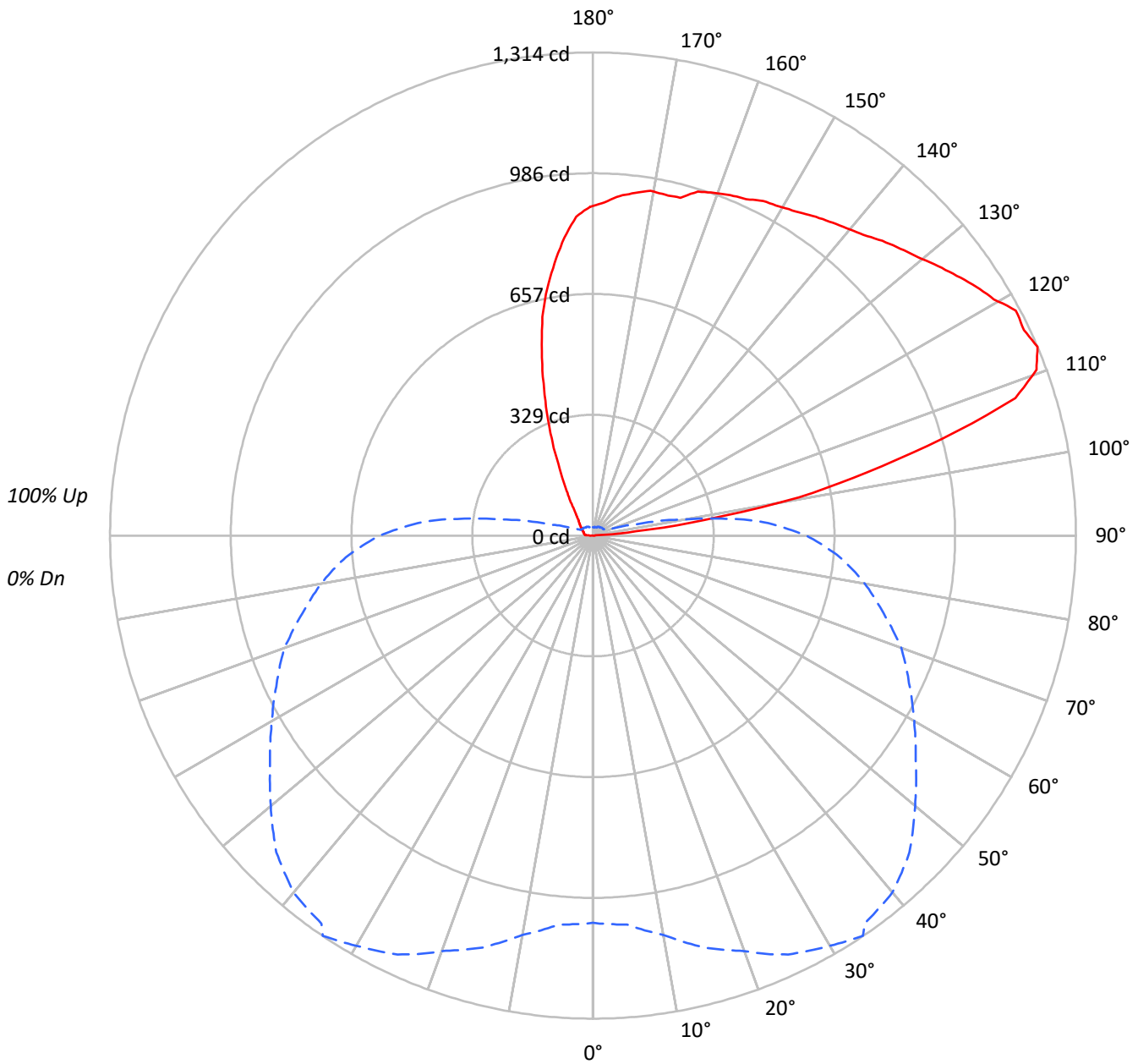
Lumens per Lamp: N/A
Luminaire Lumens: 3080.3 lumens
Efficiency: N/A
Efficacy: 55.0 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Indirect

Input Watts (W): 56
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: P508415
CATALOG NUMBER: ASYX-X-S1-X-U-HSS-L27-1-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									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	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°	840	10177	11856
100°	34415	20828	6372
105°	105469	33071	3993
110°	121015	56724	2807
115°	110324	66333	2445
120°	94430	64187	2359
125°	79359	61606	2447
130°	71618	57732	2639
135°	63435	53833	2819
140°	58650	49213	3176
145°	53676	45571	3600
150°	50855	42169	5026
155°	47782	40129	7653
160°	45613	39097	12092
165°	43687	38646	19020
170°	42177	38578	27941
175°	40510	38509	34360



TEST NUMBER: P508415

CATALOG NUMBER: ASYX-X-S1-X-U-HSS-L27-1-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°	59.9	1.9
100°-110°	375.4	12.2
110°-120°	580.3	18.8
120°-130°	560.0	18.2
130°-140°	486.4	15.8
140°-150°	400.9	13.0
150°-160°	315.9	10.3
160°-170°	219.2	7.1
170°-180°	82.4	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°	1015.6	33.0
90°-150°	2462.9	80.0
90°-180°	3080.0	100.0
0°-180°	3080.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	2	15	21	19	24	29
105°	634	1018	199	26	24	622
115°	1083	1235	651	33	24	1053
125°	1057	1205	821	43	33	967
135°	1042	1105	884	60	46	810
145°	1021	1033	867	122	68	647
155°	1006	992	845	298	161	463
165°	980	953	867	589	427	278
175°	937	920	891	833	795	90
180°	894	894	894	894	894	



TEST NUMBER: P508415

CATALOG NUMBER: ASYX-X-S1-X-U-HSS-L27-1-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	1.7	1.7	5.1	3.4	3.4	5.1	6.9	8.6	3.4
95°	1.7	1.7	3.4	44.6	133.7	147.4	140.5	135.4	118.2	102.8	25.7
97.5°	36.0	42.8	68.5	183.3	371.8	428.4	455.8	373.5	306.7	284.4	152.5
100°	138.8	161.1	222.8	421.5	628.8	642.5	637.4	620.3	570.6	538.0	412.9
102.5°	370.1	385.5	471.2	647.7	760.8	784.8	784.8	769.3	764.2	753.9	714.5
105°	634.0	651.1	719.7	810.5	879.0	904.7	918.4	952.7	987.0	992.1	1029.8
107.5°	810.5	827.6	880.7	949.3	1038.4	1070.9	1110.3	1165.2	1208.0	1202.9	1194.3
110°	961.3	980.1	1029.8	1098.3	1163.4	1202.9	1240.5	1264.5	1288.5	1264.5	1252.5
112.5°	1053.8	1062.3	1103.5	1160.0	1202.9	1232.0	1257.7	1288.5	1314.2	1288.5	1268.0
115°	1082.9	1088.1	1124.0	1163.4	1209.7	1237.1	1256.0	1288.5	1298.8	1293.7	1276.5
117.5°	1081.2	1103.5	1134.3	1161.7	1206.3	1228.6	1247.4	1273.1	1303.9	1290.2	1273.1
120°	1096.6	1098.3	1130.9	1163.4	1196.0	1214.8	1214.8	1252.5	1266.3	1262.8	1259.4
122.5°	1091.5	1096.6	1124.0	1144.6	1178.9	1194.3	1209.7	1228.6	1244.0	1238.8	1238.8
125°	1057.2	1089.8	1105.2	1129.2	1161.7	1172.0	1187.4	1202.9	1216.6	1211.4	1209.7
127.5°	1077.8	1079.5	1093.2	1118.9	1139.5	1146.3	1163.4	1177.2	1190.9	1189.1	1192.6
130°	1069.2	1064.1	1096.6	1106.9	1122.3	1134.3	1142.9	1154.9	1165.2	1165.2	1168.6
132.5°	1062.3	1062.3	1072.6	1093.2	1106.9	1115.5	1129.2	1132.6	1144.6	1148.0	1141.2
135°	1041.8	1055.5	1070.9	1077.8	1093.2	1100.0	1106.9	1113.8	1124.0	1127.5	1115.5
137.5°	1021.2	1041.8	1062.3	1072.6	1084.6	1084.6	1084.6	1094.9	1100.0	1105.2	1093.2
140°	1043.5	1041.8	1060.6	1058.9	1065.8	1064.1	1076.1	1077.8	1084.6	1081.2	1074.3
142.5°	1038.4	1038.4	1043.5	1050.4	1048.6	1052.1	1060.6	1069.2	1069.2	1072.6	1060.6
145°	1021.2	1026.4	1034.9	1041.8	1041.8	1040.1	1050.4	1052.1	1055.5	1053.8	1046.9
147.5°	1028.1	1028.1	1028.1	1036.6	1036.6	1036.6	1038.4	1040.1	1040.1	1041.8	1036.6
150°	1022.9	1024.7	1028.1	1024.7	1033.2	1019.5	1028.1	1028.1	1028.1	1029.8	1026.4
152.5°	988.7	1012.7	1021.2	1019.5	1012.7	1016.1	1017.8	1024.7	1021.2	1024.7	1014.4
155°	1005.8	1004.1	1005.8	1007.5	1002.4	1005.8	1007.5	1007.5	1005.8	1007.5	998.9
157.5°	1000.7	998.9	1007.5	997.2	1002.4	1005.8	998.9	1004.1	998.9	1005.8	1002.4
160°	995.5	992.1	998.9	992.1	998.9	990.4	985.2	993.8	988.7	1000.7	983.5
162.5°	988.7	987.0	993.8	985.2	978.4	975.0	980.1	981.8	978.4	981.8	973.2
165°	980.1	980.1	980.1	971.5	976.7	976.7	969.8	971.5	949.3	973.2	963.0
167.5°	973.2	980.1	971.5	963.0	973.2	973.2	961.3	963.0	947.5	959.5	954.4
170°	964.7	957.8	959.5	959.5	968.1	952.7	944.1	959.5	951.0	959.5	951.0
172.5°	944.1	951.0	951.0	947.5	942.4	942.4	940.7	944.1	939.0	940.7	935.6
175°	937.3	937.3	940.7	945.8	935.6	933.8	923.6	932.1	927.0	930.4	925.3
177.5°	911.6	925.3	923.6	911.6	918.4	908.1	913.3	916.7	906.4	915.0	906.4
180°	894.4	894.4	894.4	894.4	894.4	894.4	894.4	894.4	894.4	894.4	894.4



TEST NUMBER: P508415

CATALOG NUMBER: ASYX-X-S1-X-U-HSS-L27-1-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°	3.4	3.4	3.4	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
95°	15.4	20.6	49.7	41.1	30.8	29.1	32.6	29.1	25.7	22.3	20.6
97.5°	123.4	138.8	145.6	128.5	126.8	116.5	104.5	78.8	72.0	63.4	49.7
100°	337.6	299.9	281.0	250.2	202.2	183.3	167.9	138.8	113.1	99.4	84.0
102.5°	646.0	575.7	484.9	389.0	317.0	289.6	258.7	215.9	181.6	150.8	125.1
105°	1017.8	884.1	707.7	579.2	483.2	423.2	395.8	327.3	270.7	236.5	198.8
107.5°	1141.2	1055.5	945.8	812.2	699.1	644.3	584.3	493.5	421.5	358.1	301.6
110°	1192.6	1118.9	1036.6	957.8	880.7	831.0	789.9	697.4	608.3	529.5	450.6
112.5°	1218.3	1144.6	1072.6	1009.2	949.3	921.8	892.7	819.0	750.5	675.1	580.9
115°	1235.4	1177.2	1113.8	1046.9	1000.7	971.5	945.8	879.0	815.6	747.1	651.1
117.5°	1244.0	1185.7	1139.5	1084.6	1036.6	1012.7	985.2	925.3	861.9	798.5	702.5
120°	1233.7	1194.3	1156.6	1110.3	1064.1	1040.1	1017.8	957.8	899.6	839.6	745.4
122.5°	1220.0	1197.7	1168.6	1122.3	1088.1	1067.5	1048.6	988.7	937.3	868.7	783.1
125°	1204.6	1182.3	1151.4	1122.3	1094.9	1079.5	1065.8	1012.7	959.5	901.3	820.7
127.5°	1180.6	1160.0	1136.0	1112.0	1091.5	1076.1	1070.9	1024.7	975.0	923.6	841.3
130°	1154.9	1137.7	1117.2	1093.2	1079.5	1062.3	1064.1	1022.9	983.5	935.6	861.9
132.5°	1120.6	1108.6	1103.5	1077.8	1064.1	1055.5	1043.5	1016.1	983.5	945.8	875.6
135°	1105.2	1093.2	1084.6	1062.3	1041.8	1038.4	1021.2	1005.8	978.4	951.0	884.1
137.5°	1077.8	1070.9	1065.8	1041.8	1021.2	1021.2	1016.1	995.5	971.5	933.8	877.3
140°	1065.8	1057.2	1043.5	1024.7	1012.7	1002.4	997.2	980.1	951.0	921.8	875.6
142.5°	1045.2	1038.4	1034.9	1017.8	998.9	988.7	978.4	959.5	939.0	918.4	868.7
145°	1033.2	1031.5	1028.1	1010.9	981.8	976.7	973.2	952.7	933.8	901.3	867.0
147.5°	1017.8	1019.5	1016.1	995.5	976.7	964.7	956.1	937.3	923.6	896.1	853.3
150°	1007.5	1009.2	1005.8	980.1	959.5	954.4	951.0	932.1	906.4	884.1	848.2
152.5°	1002.4	997.2	988.7	978.4	956.1	944.1	940.7	920.1	906.4	879.0	844.7
155°	992.1	985.2	980.1	963.0	949.3	937.3	928.7	916.7	901.3	873.9	844.7
157.5°	981.8	975.0	971.5	968.1	949.3	932.1	930.4	916.7	892.7	872.2	848.2
160°	971.5	954.4	968.1	947.5	942.4	928.7	918.4	909.8	892.7	873.9	853.3
162.5°	961.3	956.1	954.4	942.4	932.1	923.6	908.1	913.3	892.7	875.6	860.2
165°	952.7	947.5	945.8	942.4	927.0	920.1	916.7	906.4	897.9	880.7	867.0
167.5°	944.1	935.6	939.0	935.6	916.7	921.8	913.3	906.4	901.3	887.6	873.9
170°	942.4	925.3	933.8	932.1	918.4	916.7	906.4	904.7	899.6	889.3	882.4
172.5°	933.8	921.8	927.0	921.8	915.0	909.8	909.8	911.6	903.0	896.1	887.6
175°	920.1	913.3	915.0	920.1	909.8	906.4	897.9	904.7	906.4	894.4	891.0
177.5°	904.7	911.6	906.4	913.3	904.7	903.0	897.9	903.0	903.0	892.7	892.7
180°	894.4	894.4	894.4	894.4	894.4	894.4	894.4	894.4	894.4	894.4	894.4



TEST NUMBER: P508415

CATALOG NUMBER: ASYX-X-S1-X-U-HSS-L27-1-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°	5.1	6.9	6.9	8.6	10.3	10.3	12.0	12.0	13.7	15.4	17.1
95°	10.3	8.6	10.3	12.0	12.0	13.7	15.4	15.4	17.1	18.8	18.8
97.5°	20.6	13.7	13.7	13.7	15.4	15.4	17.1	18.8	20.6	20.6	20.6
100°	39.4	22.3	22.3	17.1	17.1	18.8	18.8	20.6	22.3	22.3	22.3
102.5°	68.5	41.1	32.6	22.3	20.6	20.6	22.3	22.3	24.0	24.0	24.0
105°	128.5	82.2	46.3	27.4	25.7	24.0	24.0	24.0	25.7	25.7	25.7
107.5°	226.2	131.9	65.1	36.0	30.8	27.4	27.4	27.4	27.4	27.4	27.4
110°	344.4	193.6	89.1	46.3	37.7	32.6	30.8	30.8	29.1	29.1	29.1
112.5°	452.4	253.6	113.1	56.5	44.6	37.7	34.3	32.6	32.6	30.8	29.1
115°	520.9	298.1	137.1	65.1	51.4	42.8	36.0	36.0	34.3	32.6	30.8
117.5°	570.6	344.4	166.2	78.8	60.0	49.7	39.4	37.7	36.0	36.0	34.3
120°	618.6	392.4	197.0	94.2	72.0	56.5	44.6	41.1	39.4	37.7	36.0
122.5°	664.8	438.6	231.3	113.1	84.0	66.8	49.7	44.6	42.8	39.4	39.4
125°	700.8	486.6	270.7	137.1	101.1	78.8	56.5	48.0	44.6	42.8	41.1
127.5°	740.2	534.6	311.9	162.8	119.9	94.2	65.1	53.1	49.7	46.3	44.6
130°	769.3	580.9	356.4	197.0	147.4	113.1	77.1	60.0	53.1	49.7	48.0
132.5°	791.6	620.3	401.0	234.7	179.9	137.1	92.5	72.0	60.0	54.8	51.4
135°	798.5	654.5	447.2	275.9	214.2	167.9	113.1	85.7	68.5	60.0	56.5
137.5°	805.3	682.0	491.8	322.1	258.7	205.6	137.1	102.8	82.2	70.3	61.7
140°	801.9	702.5	534.6	373.5	305.0	246.7	169.6	125.1	99.4	84.0	72.0
142.5°	800.2	719.7	579.2	421.5	353.0	294.7	209.0	154.2	121.7	99.4	85.7
145°	803.6	731.6	611.7	472.9	409.5	349.5	257.0	188.5	149.1	121.7	106.2
147.5°	791.6	738.5	651.1	517.5	459.2	401.0	308.4	234.7	186.8	152.5	130.2
150°	801.9	741.9	668.3	562.0	507.2	454.1	365.0	287.9	233.0	191.9	164.5
152.5°	800.2	745.4	687.1	601.4	555.2	505.5	416.4	341.0	282.7	239.9	207.3
155°	808.8	747.1	705.9	640.8	599.7	555.2	474.6	402.7	341.0	298.1	260.4
157.5°	815.6	769.3	728.2	676.8	640.8	603.1	534.6	467.8	409.5	365.0	318.7
160°	825.9	781.3	745.4	705.9	682.0	642.5	592.9	539.7	483.2	435.2	397.5
162.5°	831.0	800.2	769.3	729.9	714.5	687.1	646.0	606.6	558.6	514.0	478.1
165°	841.3	810.5	789.9	757.4	741.9	717.9	692.2	656.3	627.1	589.4	562.0
167.5°	851.6	831.0	813.9	788.2	774.5	757.4	735.1	711.1	695.7	666.5	639.1
170°	861.9	844.7	836.2	824.2	803.6	789.9	779.6	762.5	741.9	728.2	712.8
172.5°	870.4	863.6	858.4	855.0	834.5	824.2	817.3	798.5	798.5	779.6	767.6
175°	884.1	861.9	877.3	868.7	861.9	853.3	849.9	844.7	839.6	832.7	825.9
177.5°	891.0	887.6	891.0	887.6	885.9	877.3	882.4	877.3	875.6	873.9	868.7
180°	894.4	894.4	894.4	894.4	894.4	894.4	894.4	894.4	894.4	894.4	894.4



TEST NUMBER: P508415

CATALOG NUMBER: ASYX-X-S1-X-U-HSS-L27-1-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°	18.8	18.8	20.6	20.6	20.6	20.6	22.3	20.6	18.8
95°	20.6	22.3	22.3	22.3	24.0	24.0	24.0	24.0	24.0
97.5°	22.3	22.3	24.0	24.0	24.0	25.7	25.7	25.7	25.7
100°	24.0	24.0	24.0	25.7	25.7	25.7	25.7	25.7	25.7
102.5°	24.0	24.0	24.0	25.7	25.7	25.7	25.7	25.7	25.7
105°	25.7	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
107.5°	25.7	25.7	24.0	24.0	24.0	24.0	24.0	24.0	24.0
110°	27.4	25.7	24.0	24.0	24.0	24.0	24.0	24.0	22.3
112.5°	29.1	27.4	25.7	24.0	24.0	24.0	24.0	22.3	22.3
115°	30.8	29.1	27.4	27.4	25.7	25.7	25.7	24.0	24.0
117.5°	32.6	30.8	29.1	29.1	27.4	27.4	25.7	25.7	25.7
120°	34.3	34.3	32.6	30.8	30.8	29.1	29.1	27.4	27.4
122.5°	37.7	34.3	34.3	34.3	34.3	32.6	30.8	30.8	30.8
125°	39.4	37.7	37.7	37.7	36.0	36.0	34.3	32.6	32.6
127.5°	42.8	41.1	41.1	39.4	39.4	37.7	37.7	36.0	36.0
130°	46.3	44.6	42.8	42.8	42.8	41.1	41.1	39.4	39.4
132.5°	49.7	48.0	48.0	46.3	46.3	44.6	44.6	42.8	42.8
135°	54.8	51.4	51.4	51.4	49.7	48.0	48.0	48.0	46.3
137.5°	58.3	56.5	54.8	53.1	53.1	53.1	51.4	51.4	51.4
140°	66.8	61.7	60.0	58.3	58.3	56.5	56.5	56.5	56.5
142.5°	77.1	72.0	66.8	65.1	63.4	61.7	61.7	60.0	60.0
145°	94.2	85.7	78.8	77.1	73.7	70.3	70.3	68.5	68.5
147.5°	114.8	104.5	96.0	92.5	90.8	87.4	84.0	82.2	80.5
150°	143.9	128.5	119.9	116.5	113.1	106.2	102.8	101.1	101.1
152.5°	181.6	164.5	150.8	143.9	140.5	133.7	128.5	126.8	128.5
155°	227.9	207.3	193.6	185.1	178.2	169.6	166.2	164.5	161.1
157.5°	293.0	265.6	245.0	238.2	229.6	221.0	215.9	210.8	207.3
160°	363.3	332.4	313.6	305.0	294.7	281.0	274.2	267.3	263.9
162.5°	440.4	414.7	392.4	378.7	373.5	356.4	349.5	341.0	342.7
165°	526.0	498.6	481.5	471.2	457.5	448.9	443.8	431.8	426.7
167.5°	616.8	586.0	577.4	563.7	551.7	539.7	539.7	534.6	529.5
170°	685.4	678.5	668.3	652.8	651.1	642.5	642.5	637.4	639.1
172.5°	750.5	740.2	740.2	735.1	729.9	726.5	717.9	721.4	721.4
175°	815.6	810.5	807.0	793.3	796.8	796.8	791.6	791.6	795.0
177.5°	868.7	868.7	865.3	863.6	861.9	863.6	865.3	867.0	863.6
180°	894.4	894.4	894.4	894.4	894.4	894.4	894.4	894.4	894.4

(END OF REPORT)