

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: P508417

Luminaire Tested: **ASYX-X-S1-X-U-HSS-L35-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P508417  
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-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**

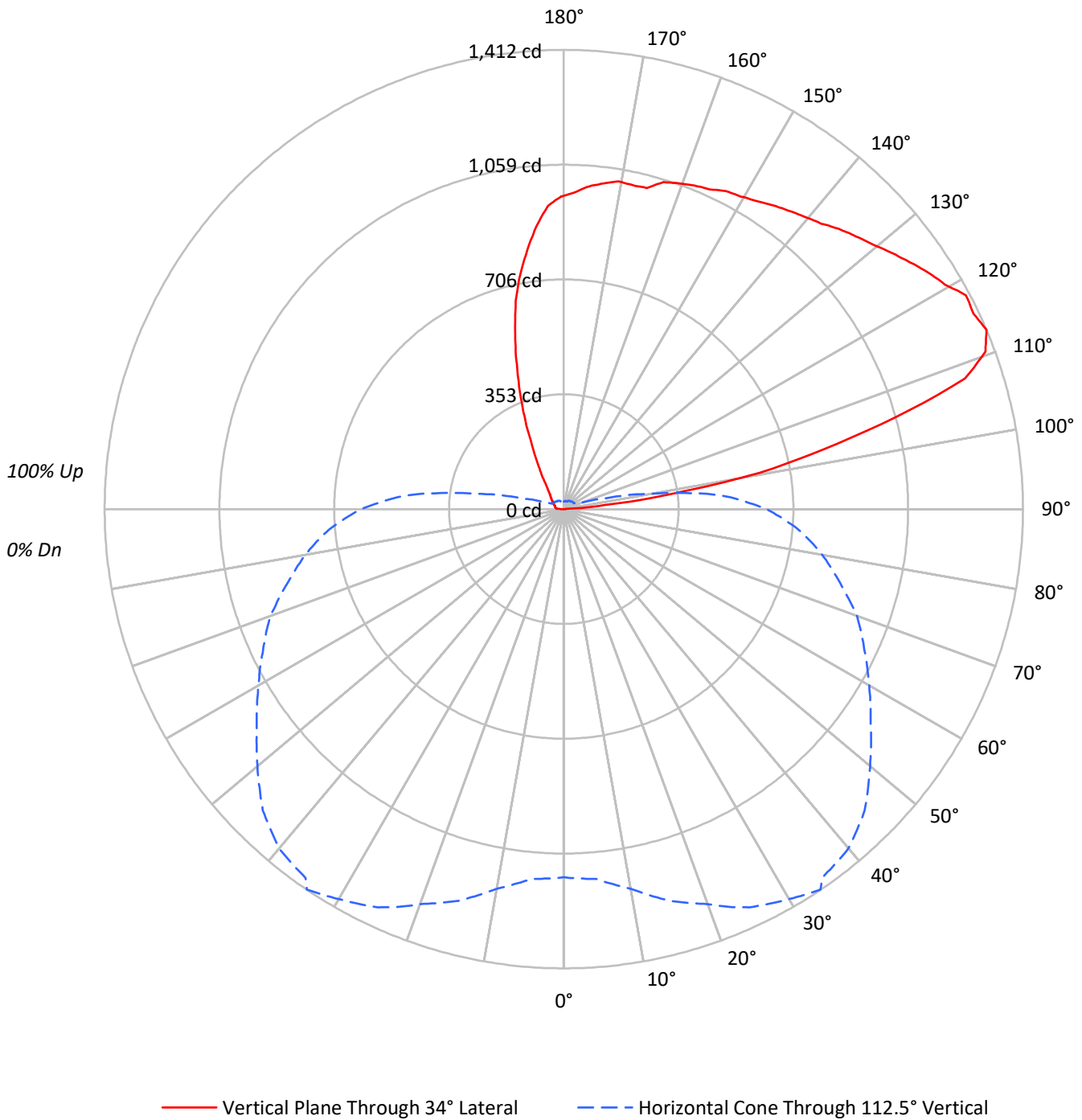
Lumens per Lamp: N/A  
Luminaire Lumens: 3308.5 lumens  
Efficiency: N/A  
Efficacy: 59.1 lumens/watt  
N/A  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Indirect

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: P508417  
CATALOG NUMBER: ASYX-X-S1-X-U-HSS-L35-1-UNV-X-X-X-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P508417

CATALOG NUMBER: ASYX-X-S1-X-U-HSS-L35-1-UNV-X-X-X-STD

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									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	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°	889	10918	12745
100°	36969	22365	6843
105°	113271	35517	4292
110°	129978	60929	3009
115°	118495	71244	2628
120°	101422	68941	2532
125°	85237	66170	2627
130°	76923	62006	2833
135°	68136	57821	3026
140°	62995	52855	3412
145°	57654	48945	3869
150°	54623	45292	5399
155°	51321	43103	8219
160°	48994	41993	12985
165°	46924	41508	20428
170°	45298	41438	30014
175°	43510	41362	36906



TEST NUMBER: P508417

CATALOG NUMBER: ASYX-X-S1-X-U-HSS-L35-1-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°	64.3	1.9
100°-110°	403.2	12.2
110°-120°	623.3	18.8
120°-130°	601.5	18.2
130°-140°	522.4	15.8
140°-150°	430.6	13.0
150°-160°	339.3	10.3
160°-170°	235.4	7.1
170°-180°	88.5	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°	1090.8	33.0
90°-150°	2645.3	80.0
90°-180°	3308.0	100.0
0°-180°	3308.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	2	17	22	20	26	31
105°	681	1093	214	28	26	668
115°	1163	1327	699	35	26	1131
125°	1136	1294	882	46	35	1038
135°	1119	1187	950	64	50	870
145°	1097	1110	931	131	74	695
155°	1080	1066	907	320	173	498
165°	1053	1023	931	633	458	299
175°	1007	988	957	894	854	97
180°	961	961	961	961	961	



TEST NUMBER: P508417

CATALOG NUMBER: ASYX-X-S1-X-U-HSS-L35-1-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	1.8	1.8	5.5	3.7	3.7	5.5	7.4	9.2	3.7
95°	1.8	1.8	3.7	47.9	143.6	158.3	150.9	145.4	127.0	110.4	27.6
97.5°	38.6	46.0	73.6	196.9	399.4	460.1	489.5	401.2	329.4	305.5	163.8
100°	149.1	173.0	239.3	452.7	675.4	690.1	684.6	666.2	612.8	577.9	443.5
102.5°	397.5	414.1	506.1	695.7	817.1	842.9	842.9	826.3	820.8	809.8	767.4
105°	680.9	699.3	773.0	870.5	944.1	971.7	986.4	1023.3	1060.1	1065.6	1106.1
107.5°	870.5	888.9	946.0	1019.6	1115.3	1150.2	1192.6	1251.5	1297.5	1292.0	1282.8
110°	1032.5	1052.7	1106.1	1179.7	1249.6	1292.0	1332.4	1358.2	1384.0	1358.2	1345.3
112.5°	1131.8	1141.0	1185.2	1245.9	1292.0	1323.2	1350.8	1384.0	1411.6	1384.0	1361.9
115°	1163.1	1168.6	1207.3	1249.6	1299.3	1328.8	1349.0	1384.0	1395.0	1389.5	1371.1
117.5°	1161.3	1185.2	1218.3	1247.8	1295.6	1319.6	1339.8	1367.4	1400.5	1385.8	1367.4
120°	1177.8	1179.7	1214.7	1249.6	1284.6	1304.8	1304.8	1345.3	1360.0	1356.4	1352.7
122.5°	1172.3	1177.8	1207.3	1229.4	1266.2	1282.8	1299.3	1319.6	1336.1	1330.6	1330.6
125°	1135.5	1170.5	1187.1	1212.8	1247.8	1258.8	1275.4	1292.0	1306.7	1301.2	1299.3
127.5°	1157.6	1159.4	1174.2	1201.8	1223.9	1231.2	1249.6	1264.3	1279.1	1277.2	1280.9
130°	1148.4	1142.9	1177.8	1188.9	1205.5	1218.3	1227.5	1240.4	1251.5	1251.5	1255.1
132.5°	1141.0	1141.0	1152.1	1174.2	1188.9	1198.1	1212.8	1216.5	1229.4	1233.1	1225.7
135°	1119.0	1133.7	1150.2	1157.6	1174.2	1181.5	1188.9	1196.3	1207.3	1211.0	1198.1
137.5°	1096.9	1119.0	1141.0	1152.1	1165.0	1165.0	1165.0	1176.0	1181.5	1187.1	1174.2
140°	1120.8	1119.0	1139.2	1137.4	1144.7	1142.9	1155.8	1157.6	1165.0	1161.3	1153.9
142.5°	1115.3	1115.3	1120.8	1128.2	1126.3	1130.0	1139.2	1148.4	1148.4	1152.1	1139.2
145°	1096.9	1102.4	1111.6	1119.0	1119.0	1117.1	1128.2	1130.0	1133.7	1131.8	1124.5
147.5°	1104.2	1104.2	1104.2	1113.4	1113.4	1113.4	1115.3	1117.1	1117.1	1119.0	1113.4
150°	1098.7	1100.6	1104.2	1100.6	1109.8	1095.0	1104.2	1104.2	1104.2	1106.1	1102.4
152.5°	1061.9	1087.7	1096.9	1095.0	1087.7	1091.4	1093.2	1100.6	1096.9	1100.6	1089.5
155°	1080.3	1078.5	1080.3	1082.1	1076.6	1080.3	1082.1	1082.1	1080.3	1082.1	1072.9
157.5°	1074.8	1072.9	1082.1	1071.1	1076.6	1080.3	1072.9	1078.5	1072.9	1080.3	1076.6
160°	1069.3	1065.6	1072.9	1065.6	1072.9	1063.7	1058.2	1067.4	1061.9	1074.8	1056.4
162.5°	1061.9	1060.1	1067.4	1058.2	1050.9	1047.2	1052.7	1054.5	1050.9	1054.5	1045.3
165°	1052.7	1052.7	1052.7	1043.5	1049.0	1049.0	1041.7	1043.5	1019.6	1045.3	1034.3
167.5°	1045.3	1052.7	1043.5	1034.3	1045.3	1045.3	1032.5	1034.3	1017.7	1030.6	1025.1
170°	1036.1	1028.8	1030.6	1030.6	1039.8	1023.3	1014.1	1030.6	1021.4	1030.6	1021.4
172.5°	1014.1	1021.4	1021.4	1017.7	1012.2	1012.2	1010.4	1014.1	1008.5	1010.4	1004.9
175°	1006.7	1006.7	1010.4	1015.9	1004.9	1003.0	992.0	1001.2	995.6	999.3	993.8
177.5°	979.1	993.8	992.0	979.1	986.4	975.4	980.9	984.6	973.6	982.8	973.6
180°	960.7	960.7	960.7	960.7	960.7	960.7	960.7	960.7	960.7	960.7	960.7



TEST NUMBER: P508417

CATALOG NUMBER: ASYX-X-S1-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°	3.7	3.7	3.7	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
95°	16.6	22.1	53.4	44.2	33.1	31.3	35.0	31.3	27.6	23.9	22.1
97.5°	132.5	149.1	156.4	138.0	136.2	125.1	112.3	84.7	77.3	68.1	53.4
100°	362.6	322.1	301.8	268.7	217.2	196.9	180.4	149.1	121.5	106.7	90.2
102.5°	693.8	618.4	520.8	417.8	340.5	311.0	277.9	231.9	195.1	162.0	134.3
105°	1093.2	949.6	760.1	622.1	519.0	454.6	425.1	351.5	290.8	254.0	213.5
107.5°	1225.7	1133.7	1015.9	872.3	750.9	692.0	627.6	530.0	452.7	384.6	323.9
110°	1280.9	1201.8	1113.4	1028.8	946.0	892.6	848.4	749.0	653.3	568.7	484.0
112.5°	1308.5	1229.4	1152.1	1084.0	1019.6	990.1	958.8	879.7	806.1	725.1	623.9
115°	1326.9	1264.3	1196.3	1124.5	1074.8	1043.5	1015.9	944.1	876.0	802.4	699.3
117.5°	1336.1	1273.5	1223.9	1165.0	1113.4	1087.7	1058.2	993.8	925.7	857.6	754.6
120°	1325.1	1282.8	1242.3	1192.6	1142.9	1117.1	1093.2	1028.8	966.2	901.8	800.6
122.5°	1310.4	1286.4	1255.1	1205.5	1168.6	1146.6	1126.3	1061.9	1006.7	933.1	841.1
125°	1293.8	1269.9	1236.7	1205.5	1176.0	1159.4	1144.7	1087.7	1030.6	968.0	881.5
127.5°	1268.0	1245.9	1220.2	1194.4	1172.3	1155.8	1150.2	1100.6	1047.2	992.0	903.6
130°	1240.4	1222.0	1199.9	1174.2	1159.4	1141.0	1142.9	1098.7	1056.4	1004.9	925.7
132.5°	1203.6	1190.7	1185.2	1157.6	1142.9	1133.7	1120.8	1091.4	1056.4	1015.9	940.4
135°	1187.1	1174.2	1165.0	1141.0	1119.0	1115.3	1096.9	1080.3	1050.9	1021.4	949.6
137.5°	1157.6	1150.2	1144.7	1119.0	1096.9	1096.9	1091.4	1069.3	1043.5	1003.0	942.3
140°	1144.7	1135.5	1120.8	1100.6	1087.7	1076.6	1071.1	1052.7	1021.4	990.1	940.4
142.5°	1122.6	1115.3	1111.6	1093.2	1072.9	1061.9	1050.9	1030.6	1008.5	986.4	933.1
145°	1109.8	1107.9	1104.2	1085.8	1054.5	1049.0	1045.3	1023.3	1003.0	968.0	931.2
147.5°	1093.2	1095.0	1091.4	1069.3	1049.0	1036.1	1026.9	1006.7	992.0	962.5	916.5
150°	1082.1	1084.0	1080.3	1052.7	1030.6	1025.1	1021.4	1001.2	973.6	949.6	911.0
152.5°	1076.6	1071.1	1061.9	1050.9	1026.9	1014.1	1010.4	988.3	973.6	944.1	907.3
155°	1065.6	1058.2	1052.7	1034.3	1019.6	1006.7	997.5	984.6	968.0	938.6	907.3
157.5°	1054.5	1047.2	1043.5	1039.8	1019.6	1001.2	999.3	984.6	958.8	936.8	911.0
160°	1043.5	1025.1	1039.8	1017.7	1012.2	997.5	986.4	977.2	958.8	938.6	916.5
162.5°	1032.5	1026.9	1025.1	1012.2	1001.2	992.0	975.4	980.9	958.8	940.4	923.9
165°	1023.3	1017.7	1015.9	1012.2	995.6	988.3	984.6	973.6	964.4	946.0	931.2
167.5°	1014.1	1004.9	1008.5	1004.9	984.6	990.1	980.9	973.6	968.0	953.3	938.6
170°	1012.2	993.8	1003.0	1001.2	986.4	984.6	973.6	971.7	966.2	955.2	947.8
172.5°	1003.0	990.1	995.6	990.1	982.8	977.2	977.2	979.1	969.9	962.5	953.3
175°	988.3	980.9	982.8	988.3	977.2	973.6	964.4	971.7	973.6	960.7	957.0
177.5°	971.7	979.1	973.6	980.9	971.7	969.9	964.4	969.9	969.9	958.8	958.8
180°	960.7	960.7	960.7	960.7	960.7	960.7	960.7	960.7	960.7	960.7	960.7



TEST NUMBER: P508417

CATALOG NUMBER: ASYX-X-S1-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°	5.5	7.4	7.4	9.2	11.0	11.0	12.9	12.9	14.7	16.6	18.4
95°	11.0	9.2	11.0	12.9	12.9	14.7	16.6	16.6	18.4	20.2	20.2
97.5°	22.1	14.7	14.7	14.7	16.6	16.6	18.4	20.2	22.1	22.1	22.1
100°	42.3	23.9	23.9	18.4	18.4	20.2	20.2	22.1	23.9	23.9	23.9
102.5°	73.6	44.2	35.0	23.9	22.1	22.1	23.9	23.9	25.8	25.8	25.8
105°	138.0	88.3	49.7	29.4	27.6	25.8	25.8	25.8	27.6	27.6	27.6
107.5°	242.9	141.7	69.9	38.6	33.1	29.4	29.4	29.4	29.4	29.4	29.4
110°	369.9	208.0	95.7	49.7	40.5	35.0	33.1	33.1	31.3	31.3	31.3
112.5°	485.9	272.4	121.5	60.7	47.9	40.5	36.8	35.0	35.0	33.1	31.3
115°	559.5	320.2	147.2	69.9	55.2	46.0	38.6	38.6	36.8	35.0	33.1
117.5°	612.8	369.9	178.5	84.7	64.4	53.4	42.3	40.5	38.6	38.6	36.8
120°	664.4	421.4	211.6	101.2	77.3	60.7	47.9	44.2	42.3	40.5	38.6
122.5°	714.1	471.1	248.5	121.5	90.2	71.8	53.4	47.9	46.0	42.3	42.3
125°	752.7	522.7	290.8	147.2	108.6	84.7	60.7	51.5	47.9	46.0	44.2
127.5°	795.0	574.2	335.0	174.8	128.8	101.2	69.9	57.1	53.4	49.7	47.9
130°	826.3	623.9	382.8	211.6	158.3	121.5	82.8	64.4	57.1	53.4	51.5
132.5°	850.3	666.2	430.7	252.1	193.2	147.2	99.4	77.3	64.4	58.9	55.2
135°	857.6	703.0	480.3	296.3	230.0	180.4	121.5	92.0	73.6	64.4	60.7
137.5°	865.0	732.5	528.2	346.0	277.9	220.8	147.2	110.4	88.3	75.5	66.3
140°	861.3	754.6	574.2	401.2	327.6	265.0	182.2	134.3	106.7	90.2	77.3
142.5°	859.5	773.0	622.1	452.7	379.1	316.5	224.5	165.6	130.7	106.7	92.0
145°	863.1	785.8	657.0	507.9	439.9	375.4	276.1	202.4	160.1	130.7	114.1
147.5°	850.3	793.2	699.3	555.8	493.2	430.7	331.3	252.1	200.6	163.8	139.9
150°	861.3	796.9	717.8	603.6	544.8	487.7	392.0	309.2	250.3	206.1	176.7
152.5°	859.5	800.6	738.0	646.0	596.3	542.9	447.2	366.2	303.7	257.7	222.7
155°	868.7	802.4	758.2	688.3	644.1	596.3	509.8	432.5	366.2	320.2	279.7
157.5°	876.0	826.3	782.2	727.0	688.3	647.8	574.2	502.4	439.9	392.0	342.3
160°	887.1	839.2	800.6	758.2	732.5	690.1	636.8	579.7	519.0	467.5	427.0
162.5°	892.6	859.5	826.3	784.0	767.4	738.0	693.8	651.5	600.0	552.1	513.5
165°	903.6	870.5	848.4	813.5	796.9	771.1	743.5	704.9	673.6	633.1	603.6
167.5°	914.7	892.6	874.2	846.6	831.9	813.5	789.5	763.8	747.2	715.9	686.5
170°	925.7	907.3	898.1	885.2	863.1	848.4	837.4	819.0	796.9	782.2	765.6
172.5°	934.9	927.6	922.0	918.4	896.3	885.2	877.9	857.6	857.6	837.4	824.5
175°	949.6	925.7	942.3	933.1	925.7	916.5	912.8	907.3	901.8	894.4	887.1
177.5°	957.0	953.3	957.0	953.3	951.5	942.3	947.8	942.3	940.4	938.6	933.1
180°	960.7	960.7	960.7	960.7	960.7	960.7	960.7	960.7	960.7	960.7	960.7





TEST NUMBER: P508417

CATALOG NUMBER: ASYX-X-S1-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°	20.2	20.2	22.1	22.1	22.1	22.1	23.9	22.1	20.2
95°	22.1	23.9	23.9	23.9	25.8	25.8	25.8	25.8	25.8
97.5°	23.9	23.9	25.8	25.8	25.8	27.6	27.6	27.6	27.6
100°	25.8	25.8	25.8	27.6	27.6	27.6	27.6	27.6	27.6
102.5°	25.8	25.8	25.8	27.6	27.6	27.6	27.6	27.6	27.6
105°	27.6	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
107.5°	27.6	27.6	25.8	25.8	25.8	25.8	25.8	25.8	25.8
110°	29.4	27.6	25.8	25.8	25.8	25.8	25.8	25.8	23.9
112.5°	31.3	29.4	27.6	25.8	25.8	25.8	25.8	23.9	23.9
115°	33.1	31.3	29.4	29.4	27.6	27.6	27.6	25.8	25.8
117.5°	35.0	33.1	31.3	31.3	29.4	29.4	27.6	27.6	27.6
120°	36.8	36.8	35.0	33.1	33.1	31.3	31.3	29.4	29.4
122.5°	40.5	36.8	36.8	36.8	36.8	35.0	33.1	33.1	33.1
125°	42.3	40.5	40.5	40.5	38.6	38.6	36.8	35.0	35.0
127.5°	46.0	44.2	44.2	42.3	42.3	40.5	40.5	38.6	38.6
130°	49.7	47.9	46.0	46.0	46.0	44.2	44.2	42.3	42.3
132.5°	53.4	51.5	51.5	49.7	49.7	47.9	47.9	46.0	46.0
135°	58.9	55.2	55.2	55.2	53.4	51.5	51.5	51.5	49.7
137.5°	62.6	60.7	58.9	57.1	57.1	57.1	55.2	55.2	55.2
140°	71.8	66.3	64.4	62.6	62.6	60.7	60.7	60.7	60.7
142.5°	82.8	77.3	71.8	69.9	68.1	66.3	66.3	64.4	64.4
145°	101.2	92.0	84.7	82.8	79.1	75.5	75.5	73.6	73.6
147.5°	123.3	112.3	103.1	99.4	97.5	93.9	90.2	88.3	86.5
150°	154.6	138.0	128.8	125.1	121.5	114.1	110.4	108.6	108.6
152.5°	195.1	176.7	162.0	154.6	150.9	143.6	138.0	136.2	138.0
155°	244.8	222.7	208.0	198.8	191.4	182.2	178.5	176.7	173.0
157.5°	314.7	285.3	263.2	255.8	246.6	237.4	231.9	226.4	222.7
160°	390.2	357.0	336.8	327.6	316.5	301.8	294.5	287.1	283.4
162.5°	473.0	445.4	421.4	406.7	401.2	382.8	375.4	366.2	368.1
165°	565.0	535.6	517.1	506.1	491.4	482.2	476.7	463.8	458.3
167.5°	662.5	629.4	620.2	605.5	592.6	579.7	579.7	574.2	568.7
170°	736.2	728.8	717.8	701.2	699.3	690.1	690.1	684.6	686.5
172.5°	806.1	795.0	795.0	789.5	784.0	780.3	771.1	774.8	774.8
175°	876.0	870.5	866.8	852.1	855.8	855.8	850.3	850.3	853.9
177.5°	933.1	933.1	929.4	927.6	925.7	927.6	929.4	931.2	927.6
180°	960.7	960.7	960.7	960.7	960.7	960.7	960.7	960.7	960.7

(END OF REPORT)