

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: P508418

Luminaire Tested: **ASYX-X-S1-X-U-HSS-L40-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508418
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-L40-1-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

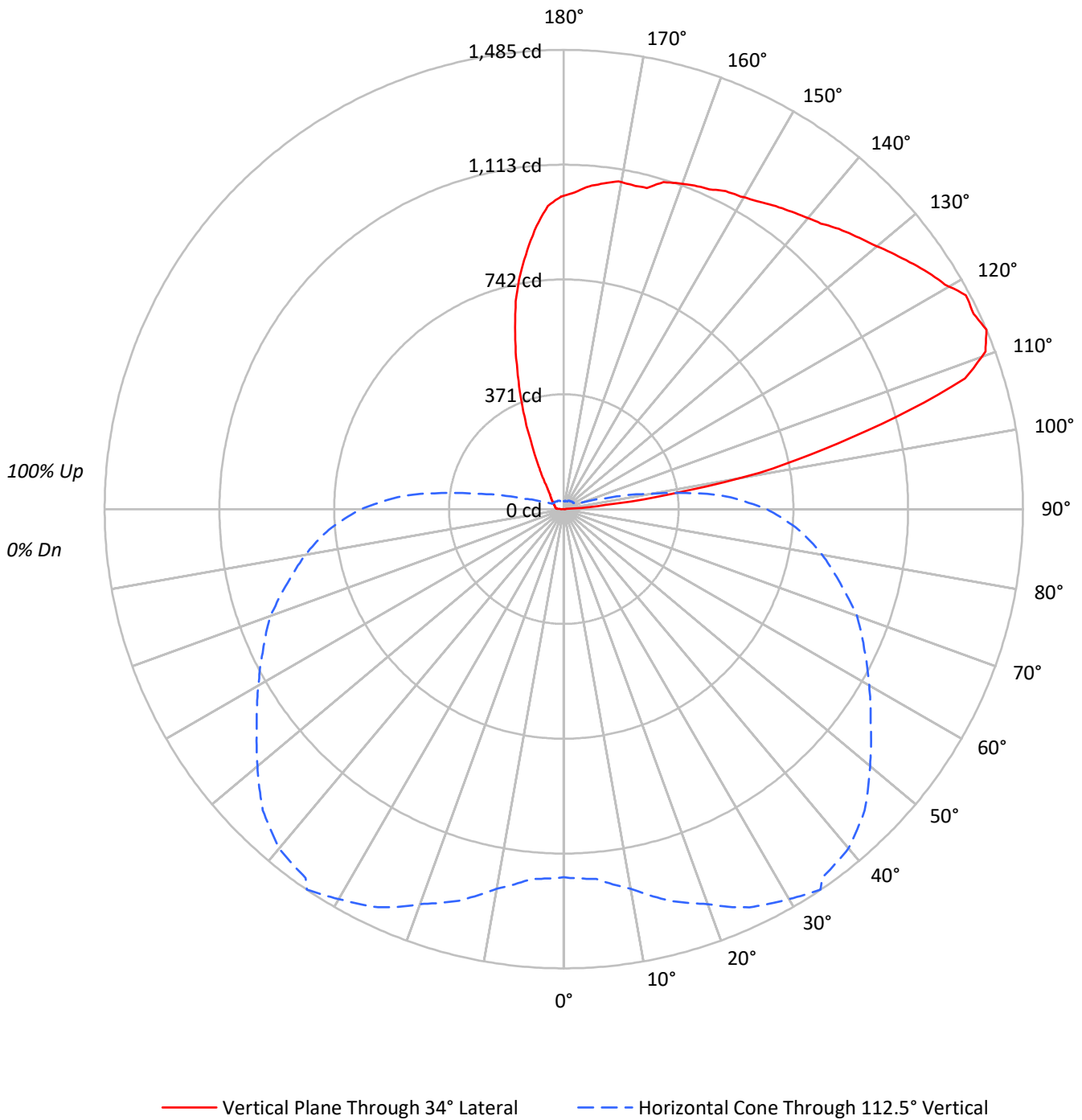
Lumens per Lamp: N/A
Luminaire Lumens: 3479.6 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Indirect

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: P508418
CATALOG NUMBER: ASYX-X-S1-X-U-HSS-L40-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot





TEST NUMBER: P508418

CATALOG NUMBER: ASYX-X-S1-X-U-HSS-L40-1-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°	939	11461	13388
100°	38878	23505	7190
105°	119143	37347	4508
110°	136700	64089	3172
115°	124628	74932	2761
120°	106675	72506	2669
125°	89650	69593	2762
130°	80902	65214	2981
135°	71655	60817	3185
140°	66255	55593	3592
145°	60635	51478	4068
150°	57447	47633	5678
155°	53977	45331	8641
160°	51528	44165	13659
165°	49353	43656	21485
170°	47642	43580	31566
175°	45761	43501	38816



TEST NUMBER: P508418

CATALOG NUMBER: ASYX-X-S1-X-U-HSS-L40-1-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°	67.7	1.9
100°-110°	424.1	12.2
110°-120°	655.5	18.8
120°-130°	632.6	18.2
130°-140°	549.4	15.8
140°-150°	452.9	13.0
150°-160°	356.8	10.3
160°-170°	247.6	7.1
170°-180°	93.0	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°	1147.3	33.0
90°-150°	2782.2	80.0
90°-180°	3480.0	100.0
0°-180°	3479.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	2	17	23	21	27	33
105°	716	1150	224	29	27	703
115°	1223	1396	736	37	27	1190
125°	1194	1361	927	48	37	1092
135°	1177	1248	999	68	52	915
145°	1154	1167	979	137	77	731
155°	1136	1121	954	337	182	524
165°	1107	1076	979	666	482	314
175°	1059	1039	1006	941	898	101
180°	1010	1010	1010	1010	1010	



TEST NUMBER: P508418

CATALOG NUMBER: ASYX-X-S1-X-U-HSS-L40-1-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	1.9	1.9	5.8	3.9	3.9	5.8	7.7	9.7	3.9
95°	1.9	1.9	3.9	50.3	151.0	166.5	158.7	152.9	133.6	116.1	29.0
97.5°	40.6	48.4	77.4	207.1	420.0	483.9	514.9	422.0	346.5	321.3	172.3
100°	156.8	181.9	251.6	476.2	710.4	725.8	720.0	700.7	644.5	607.8	466.5
102.5°	418.1	435.5	532.3	731.6	859.4	886.5	886.5	869.1	863.3	851.7	807.1
105°	716.2	735.5	812.9	915.5	993.0	1022.0	1037.5	1076.2	1114.9	1120.7	1163.3
107.5°	915.5	934.9	994.9	1072.3	1173.0	1209.7	1254.3	1316.2	1364.6	1358.8	1349.1
110°	1085.9	1107.2	1163.3	1240.7	1314.3	1358.8	1401.4	1428.5	1455.6	1428.5	1414.9
112.5°	1190.4	1200.1	1246.5	1310.4	1358.8	1391.7	1420.7	1455.6	1484.6	1455.6	1432.3
115°	1223.3	1229.1	1269.7	1314.3	1366.5	1397.5	1418.8	1455.6	1467.2	1461.4	1442.0
117.5°	1221.4	1246.5	1281.4	1312.3	1362.6	1387.8	1409.1	1438.1	1473.0	1457.5	1438.1
120°	1238.8	1240.7	1277.5	1314.3	1351.0	1372.3	1372.3	1414.9	1430.4	1426.5	1422.7
122.5°	1233.0	1238.8	1269.7	1293.0	1331.7	1349.1	1366.5	1387.8	1405.2	1399.4	1399.4
125°	1194.3	1231.0	1248.4	1275.5	1312.3	1323.9	1341.4	1358.8	1374.3	1368.5	1366.5
127.5°	1217.5	1219.4	1234.9	1263.9	1287.2	1294.9	1314.3	1329.7	1345.2	1343.3	1347.2
130°	1207.8	1202.0	1238.8	1250.4	1267.8	1281.4	1291.0	1304.6	1316.2	1316.2	1320.1
132.5°	1200.1	1200.1	1211.7	1234.9	1250.4	1260.1	1275.5	1279.4	1293.0	1296.8	1289.1
135°	1176.8	1192.3	1209.7	1217.5	1234.9	1242.6	1250.4	1258.1	1269.7	1273.6	1260.1
137.5°	1153.6	1176.8	1200.1	1211.7	1225.2	1225.2	1225.2	1236.8	1242.6	1248.4	1234.9
140°	1178.8	1176.8	1198.1	1196.2	1203.9	1202.0	1215.5	1217.5	1225.2	1221.4	1213.6
142.5°	1173.0	1173.0	1178.8	1186.5	1184.6	1188.4	1198.1	1207.8	1207.8	1211.7	1198.1
145°	1153.6	1159.4	1169.1	1176.8	1176.8	1174.9	1186.5	1188.4	1192.3	1190.4	1182.6
147.5°	1161.3	1161.3	1161.3	1171.0	1171.0	1171.0	1173.0	1174.9	1174.9	1176.8	1171.0
150°	1155.5	1157.5	1161.3	1157.5	1167.2	1151.7	1161.3	1161.3	1161.3	1163.3	1159.4
152.5°	1116.8	1143.9	1153.6	1151.7	1143.9	1147.8	1149.7	1157.5	1153.6	1157.5	1145.9
155°	1136.2	1134.3	1136.2	1138.1	1132.3	1136.2	1138.1	1138.1	1136.2	1138.1	1128.4
157.5°	1130.4	1128.4	1138.1	1126.5	1132.3	1136.2	1128.4	1134.3	1128.4	1136.2	1132.3
160°	1124.6	1120.7	1128.4	1120.7	1128.4	1118.8	1113.0	1122.6	1116.8	1130.4	1111.0
162.5°	1116.8	1114.9	1122.6	1113.0	1105.2	1101.3	1107.2	1109.1	1105.2	1109.1	1099.4
165°	1107.2	1107.2	1107.2	1097.5	1103.3	1103.3	1095.5	1097.5	1072.3	1099.4	1087.8
167.5°	1099.4	1107.2	1097.5	1087.8	1099.4	1099.4	1085.9	1087.8	1070.4	1083.9	1078.1
170°	1089.7	1082.0	1083.9	1083.9	1093.6	1076.2	1066.5	1083.9	1074.2	1083.9	1074.2
172.5°	1066.5	1074.2	1074.2	1070.4	1064.6	1064.6	1062.6	1066.5	1060.7	1062.6	1056.8
175°	1058.8	1058.8	1062.6	1068.4	1056.8	1054.9	1043.3	1053.0	1047.1	1051.0	1045.2
177.5°	1029.7	1045.2	1043.3	1029.7	1037.5	1025.9	1031.7	1035.5	1023.9	1033.6	1023.9
180°	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4



TEST NUMBER: P508418

CATALOG NUMBER: ASYX-X-S1-X-U-HSS-L40-1-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°	3.9	3.9	3.9	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
95°	17.4	23.2	56.1	46.5	34.8	32.9	36.8	32.9	29.0	25.2	23.2
97.5°	139.4	156.8	164.5	145.2	143.2	131.6	118.1	89.0	81.3	71.6	56.1
100°	381.3	338.7	317.4	282.6	228.4	207.1	189.7	156.8	127.7	112.3	94.8
102.5°	729.7	650.4	547.8	439.4	358.1	327.1	292.3	243.9	205.2	170.3	141.3
105°	1149.7	998.8	799.4	654.2	545.8	478.1	447.1	369.7	305.8	267.1	224.5
107.5°	1289.1	1192.3	1068.4	917.5	789.7	727.8	660.0	557.4	476.2	404.5	340.7
110°	1347.2	1263.9	1171.0	1082.0	994.9	938.8	892.3	787.8	687.1	598.1	509.1
112.5°	1376.2	1293.0	1211.7	1140.1	1072.3	1041.3	1008.4	925.2	847.8	762.6	656.2
115°	1395.6	1329.7	1258.1	1182.6	1130.4	1097.5	1068.4	993.0	921.3	843.9	735.5
117.5°	1405.2	1339.4	1287.2	1225.2	1171.0	1143.9	1113.0	1045.2	973.6	902.0	793.6
120°	1393.6	1349.1	1306.5	1254.3	1202.0	1174.9	1149.7	1082.0	1016.2	948.4	842.0
122.5°	1378.1	1353.0	1320.1	1267.8	1229.1	1205.9	1184.6	1116.8	1058.8	981.3	884.6
125°	1360.7	1335.6	1300.7	1267.8	1236.8	1219.4	1203.9	1143.9	1083.9	1018.1	927.1
127.5°	1333.6	1310.4	1283.3	1256.2	1233.0	1215.5	1209.7	1157.5	1101.3	1043.3	950.4
130°	1304.6	1285.2	1262.0	1234.9	1219.4	1200.1	1202.0	1155.5	1111.0	1056.8	973.6
132.5°	1265.9	1252.3	1246.5	1217.5	1202.0	1192.3	1178.8	1147.8	1111.0	1068.4	989.1
135°	1248.4	1234.9	1225.2	1200.1	1176.8	1173.0	1153.6	1136.2	1105.2	1074.2	998.8
137.5°	1217.5	1209.7	1203.9	1176.8	1153.6	1153.6	1147.8	1124.6	1097.5	1054.9	991.0
140°	1203.9	1194.3	1178.8	1157.5	1143.9	1132.3	1126.5	1107.2	1074.2	1041.3	989.1
142.5°	1180.7	1173.0	1169.1	1149.7	1128.4	1116.8	1105.2	1083.9	1060.7	1037.5	981.3
145°	1167.2	1165.2	1161.3	1142.0	1109.1	1103.3	1099.4	1076.2	1054.9	1018.1	979.4
147.5°	1149.7	1151.7	1147.8	1124.6	1103.3	1089.7	1080.1	1058.8	1043.3	1012.3	963.9
150°	1138.1	1140.1	1136.2	1107.2	1083.9	1078.1	1074.2	1053.0	1023.9	998.8	958.1
152.5°	1132.3	1126.5	1116.8	1105.2	1080.1	1066.5	1062.6	1039.4	1023.9	993.0	954.2
155°	1120.7	1113.0	1107.2	1087.8	1072.3	1058.8	1049.1	1035.5	1018.1	987.1	954.2
157.5°	1109.1	1101.3	1097.5	1093.6	1072.3	1053.0	1051.0	1035.5	1008.4	985.2	958.1
160°	1097.5	1078.1	1093.6	1070.4	1064.6	1049.1	1037.5	1027.8	1008.4	987.1	963.9
162.5°	1085.9	1080.1	1078.1	1064.6	1053.0	1043.3	1025.9	1031.7	1008.4	989.1	971.7
165°	1076.2	1070.4	1068.4	1064.6	1047.1	1039.4	1035.5	1023.9	1014.2	994.9	979.4
167.5°	1066.5	1056.8	1060.7	1056.8	1035.5	1041.3	1031.7	1023.9	1018.1	1002.6	987.1
170°	1064.6	1045.2	1054.9	1053.0	1037.5	1035.5	1023.9	1022.0	1016.2	1004.6	996.8
172.5°	1054.9	1041.3	1047.1	1041.3	1033.6	1027.8	1027.8	1029.7	1020.1	1012.3	1002.6
175°	1039.4	1031.7	1033.6	1039.4	1027.8	1023.9	1014.2	1022.0	1023.9	1010.4	1006.5
177.5°	1022.0	1029.7	1023.9	1031.7	1022.0	1020.1	1014.2	1020.1	1020.1	1008.4	1008.4
180°	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4



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CATALOG NUMBER: ASYX-X-S1-X-U-HSS-L40-1-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°	5.8	7.7	7.7	9.7	11.6	11.6	13.5	13.5	15.5	17.4	19.4
95°	11.6	9.7	11.6	13.5	13.5	15.5	17.4	17.4	19.4	21.3	21.3
97.5°	23.2	15.5	15.5	15.5	17.4	17.4	19.4	21.3	23.2	23.2	23.2
100°	44.5	25.2	25.2	19.4	19.4	21.3	21.3	23.2	25.2	25.2	25.2
102.5°	77.4	46.5	36.8	25.2	23.2	23.2	25.2	25.2	27.1	27.1	27.1
105°	145.2	92.9	52.3	31.0	29.0	27.1	27.1	27.1	29.0	29.0	29.0
107.5°	255.5	149.0	73.6	40.6	34.8	31.0	31.0	31.0	31.0	31.0	31.0
110°	389.1	218.7	100.7	52.3	42.6	36.8	34.8	34.8	32.9	32.9	32.9
112.5°	511.0	286.5	127.7	63.9	50.3	42.6	38.7	36.8	36.8	34.8	32.9
115°	588.4	336.8	154.8	73.6	58.1	48.4	40.6	40.6	38.7	36.8	34.8
117.5°	644.5	389.1	187.8	89.0	67.7	56.1	44.5	42.6	40.6	40.6	38.7
120°	698.7	443.2	222.6	106.5	81.3	63.9	50.3	46.5	44.5	42.6	40.6
122.5°	751.0	495.5	261.3	127.7	94.8	75.5	56.1	50.3	48.4	44.5	44.5
125°	791.7	549.7	305.8	154.8	114.2	89.0	63.9	54.2	50.3	48.4	46.5
127.5°	836.2	603.9	352.3	183.9	135.5	106.5	73.6	60.0	56.1	52.3	50.3
130°	869.1	656.2	402.6	222.6	166.5	127.7	87.1	67.7	60.0	56.1	54.2
132.5°	894.2	700.7	452.9	265.2	203.2	154.8	104.5	81.3	67.7	61.9	58.1
135°	902.0	739.4	505.2	311.6	241.9	189.7	127.7	96.8	77.4	67.7	63.9
137.5°	909.7	770.4	555.5	363.9	292.3	232.3	154.8	116.1	92.9	79.4	69.7
140°	905.9	793.6	603.9	422.0	344.5	278.7	191.6	141.3	112.3	94.8	81.3
142.5°	903.9	812.9	654.2	476.2	398.7	332.9	236.1	174.2	137.4	112.3	96.8
145°	907.8	826.5	691.0	534.2	462.6	394.9	290.3	212.9	168.4	137.4	120.0
147.5°	894.2	834.2	735.5	584.5	518.7	452.9	348.4	265.2	211.0	172.3	147.1
150°	905.9	838.1	754.9	634.9	572.9	512.9	412.3	325.2	263.2	216.8	185.8
152.5°	903.9	842.0	776.2	679.4	627.1	571.0	470.3	385.2	319.4	271.0	234.2
155°	913.6	843.9	797.5	723.9	677.5	627.1	536.2	454.9	385.2	336.8	294.2
157.5°	921.3	869.1	822.6	764.6	723.9	681.3	603.9	528.4	462.6	412.3	360.0
160°	932.9	882.6	842.0	797.5	770.4	725.8	669.7	609.7	545.8	491.6	449.1
162.5°	938.8	903.9	869.1	824.6	807.1	776.2	729.7	685.2	631.0	580.7	540.0
165°	950.4	915.5	892.3	855.5	838.1	811.0	782.0	741.3	708.4	665.8	634.9
167.5°	962.0	938.8	919.4	890.4	874.9	855.5	830.4	803.3	785.8	752.9	722.0
170°	973.6	954.2	944.6	931.0	907.8	892.3	880.7	861.3	838.1	822.6	805.2
172.5°	983.3	975.5	969.7	965.9	942.6	931.0	923.3	902.0	902.0	880.7	867.1
175°	998.8	973.6	991.0	981.3	973.6	963.9	960.0	954.2	948.4	940.7	932.9
177.5°	1006.5	1002.6	1006.5	1002.6	1000.7	991.0	996.8	991.0	989.1	987.1	981.3
180°	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4



TEST NUMBER: P508418

CATALOG NUMBER: ASYX-X-S1-X-U-HSS-L40-1-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°	21.3	21.3	23.2	23.2	23.2	23.2	25.2	23.2	21.3
95°	23.2	25.2	25.2	25.2	27.1	27.1	27.1	27.1	27.1
97.5°	25.2	25.2	27.1	27.1	27.1	29.0	29.0	29.0	29.0
100°	27.1	27.1	27.1	29.0	29.0	29.0	29.0	29.0	29.0
102.5°	27.1	27.1	27.1	29.0	29.0	29.0	29.0	29.0	29.0
105°	29.0	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
107.5°	29.0	29.0	27.1	27.1	27.1	27.1	27.1	27.1	27.1
110°	31.0	29.0	27.1	27.1	27.1	27.1	27.1	27.1	25.2
112.5°	32.9	31.0	29.0	27.1	27.1	27.1	27.1	25.2	25.2
115°	34.8	32.9	31.0	31.0	29.0	29.0	29.0	27.1	27.1
117.5°	36.8	34.8	32.9	32.9	31.0	31.0	29.0	29.0	29.0
120°	38.7	38.7	36.8	34.8	34.8	32.9	32.9	31.0	31.0
122.5°	42.6	38.7	38.7	38.7	38.7	36.8	34.8	34.8	34.8
125°	44.5	42.6	42.6	42.6	40.6	40.6	38.7	36.8	36.8
127.5°	48.4	46.5	46.5	44.5	44.5	42.6	42.6	40.6	40.6
130°	52.3	50.3	48.4	48.4	48.4	46.5	46.5	44.5	44.5
132.5°	56.1	54.2	54.2	52.3	52.3	50.3	50.3	48.4	48.4
135°	61.9	58.1	58.1	58.1	56.1	54.2	54.2	54.2	52.3
137.5°	65.8	63.9	61.9	60.0	60.0	60.0	58.1	58.1	58.1
140°	75.5	69.7	67.7	65.8	65.8	63.9	63.9	63.9	63.9
142.5°	87.1	81.3	75.5	73.6	71.6	69.7	69.7	67.7	67.7
145°	106.5	96.8	89.0	87.1	83.2	79.4	79.4	77.4	77.4
147.5°	129.7	118.1	108.4	104.5	102.6	98.7	94.8	92.9	91.0
150°	162.6	145.2	135.5	131.6	127.7	120.0	116.1	114.2	114.2
152.5°	205.2	185.8	170.3	162.6	158.7	151.0	145.2	143.2	145.2
155°	257.4	234.2	218.7	209.0	201.3	191.6	187.8	185.8	181.9
157.5°	331.0	300.0	276.8	269.0	259.4	249.7	243.9	238.1	234.2
160°	410.3	375.5	354.2	344.5	332.9	317.4	309.7	302.0	298.1
162.5°	497.4	468.4	443.2	427.8	422.0	402.6	394.9	385.2	387.1
165°	594.2	563.3	543.9	532.3	516.8	507.1	501.3	487.8	482.0
167.5°	696.8	662.0	652.3	636.8	623.3	609.7	609.7	603.9	598.1
170°	774.2	766.5	754.9	737.5	735.5	725.8	725.8	720.0	722.0
172.5°	847.8	836.2	836.2	830.4	824.6	820.7	811.0	814.9	814.9
175°	921.3	915.5	911.7	896.2	900.0	900.0	894.2	894.2	898.1
177.5°	981.3	981.3	977.5	975.5	973.6	975.5	977.5	979.4	975.5
180°	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4

(END OF REPORT)