

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: P508424

Luminaire Tested: **ASYX-X-S1-X-U-W-L30-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P508424  
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-S1-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: 5010.9 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
N/A  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Indirect

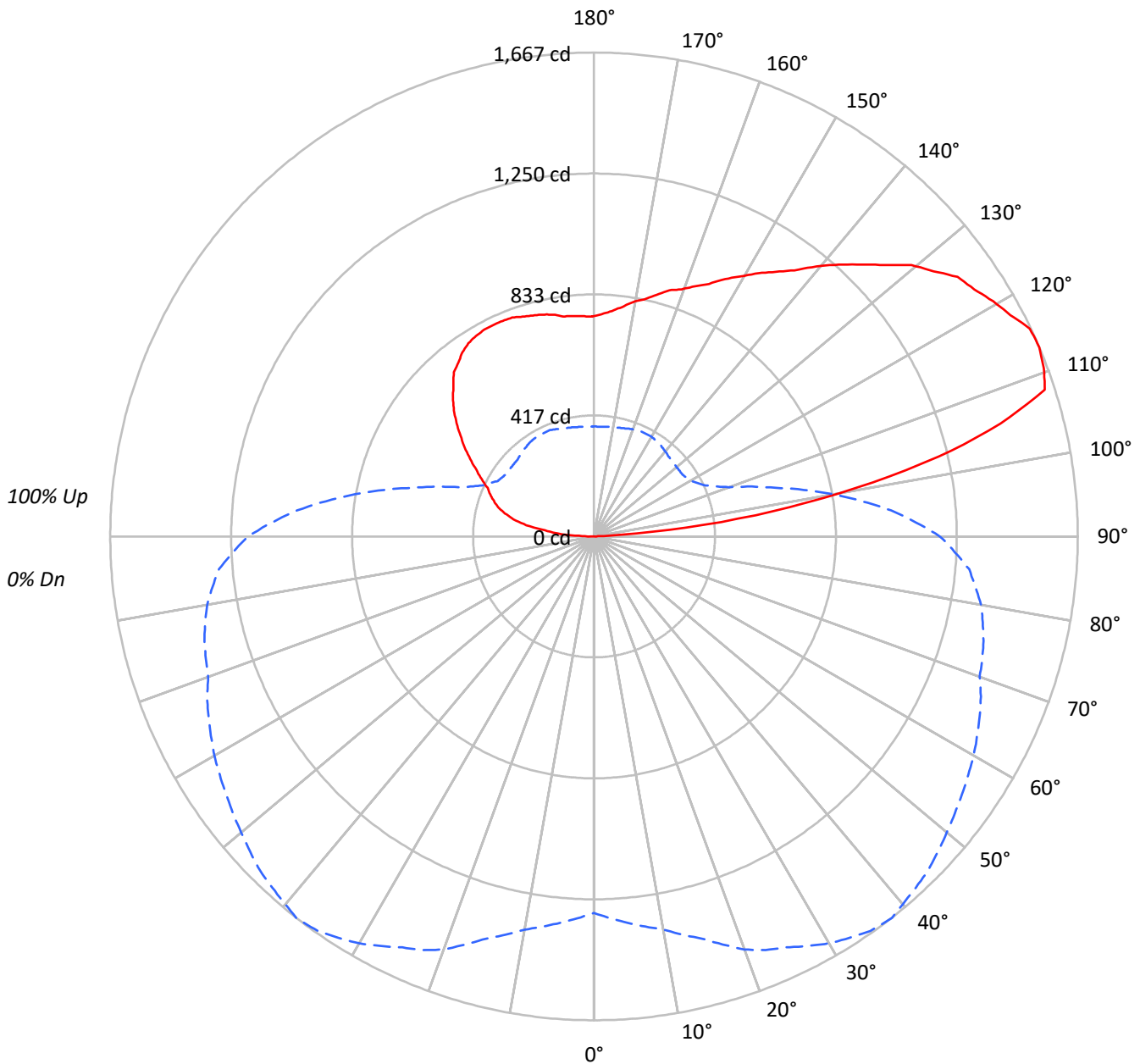
Input Watts (W): 56  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P508424

CATALOG NUMBER: ASYX-X-S1-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



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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				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°	46536	51772	65851
100°	126900	98262	59929
105°	127111	104936	54980
110°	141597	129071	46301
115°	149354	129436	38561
120°	140008	113994	35805
125°	122311	97502	35611
130°	105216	80935	36894
135°	89265	69463	37545
140°	74905	59122	38748
145°	63326	52020	38853
150°	53888	46117	38958
155°	47188	41279	37901
160°	42502	37613	36880
165°	38967	35406	35325
170°	36200	33717	33870
175°	33867	32869	32718



TEST NUMBER: P508424

CATALOG NUMBER: ASYX-X-S1-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°	205.1	4.1
100°-110°	742.4	14.8
110°-120°	1000.7	20.0
120°-130°	952.5	19.0
130°-140°	793.6	15.8
140°-150°	601.2	12.0
150°-160°	409.1	8.2
160°-170°	232.5	4.6
170°-180°	73.9	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°	1948.2	38.9
90°-150°	4295.4	85.7
90°-180°	5011.0	100.0
0°-180°	5010.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	94	307	105	105	133	167
105°	764	1560	631	279	330	829
115°	1466	1596	1270	403	378	1414
125°	1629	1459	1299	542	474	1454
135°	1466	1256	1141	688	617	1136
145°	1205	1072	990	782	739	762
155°	993	942	869	810	798	464
165°	874	848	794	789	792	250
175°	784	773	760	759	757	76
180°	757	757	757	757	757	



TEST NUMBER: P508424

CATALOG NUMBER: ASYX-X-S1-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°	14.2	14.2	14.2	16.0	17.8	19.5	19.5	24.9	32.0	33.8	39.1
95°	94.2	108.4	161.7	186.6	188.4	193.7	193.7	245.2	305.6	319.8	334.1
97.5°	252.3	270.1	327.0	371.4	435.3	453.1	474.4	517.1	582.8	621.9	641.5
100°	511.8	515.3	545.5	586.4	655.7	694.8	742.8	860.0	918.7	918.7	897.3
102.5°	648.6	652.1	678.8	717.9	799.6	858.3	913.3	1055.5	1174.5	1219.0	1236.7
105°	764.1	776.5	804.9	860.0	959.5	1025.3	1076.8	1238.5	1377.1	1453.5	1512.2
107.5°	911.6	931.1	979.1	1043.1	1162.1	1238.5	1304.3	1435.8	1556.6	1633.0	1631.2
110°	1124.8	1135.5	1185.2	1268.7	1371.8	1432.2	1473.1	1565.5	1647.2	1654.3	1657.9
112.5°	1297.2	1336.2	1375.3	1434.0	1513.9	1542.4	1561.9	1618.8	1659.6	1666.8	1654.3
115°	1466.0	1480.2	1499.7	1538.8	1576.1	1604.6	1608.1	1638.3	1647.2	1663.2	1634.8
117.5°	1570.8	1577.9	1579.7	1593.9	1613.4	1629.4	1625.9	1634.8	1645.4	1624.1	1609.9
120°	1625.9	1633.0	1620.6	1625.9	1631.2	1634.8	1627.7	1631.2	1611.7	1595.7	1579.7
122.5°	1647.2	1645.4	1633.0	1633.0	1625.9	1624.1	1609.9	1597.5	1583.2	1561.9	1542.4
125°	1629.4	1636.5	1620.6	1608.1	1592.1	1618.8	1583.2	1570.8	1545.9	1538.8	1501.5
127.5°	1606.3	1620.6	1593.9	1581.5	1565.5	1560.1	1538.8	1521.0	1503.3	1483.7	1458.9
130°	1570.8	1576.1	1551.3	1538.8	1522.8	1506.8	1503.3	1464.2	1451.7	1439.3	1405.5
132.5°	1535.3	1526.4	1501.5	1485.5	1466.0	1457.1	1448.2	1414.4	1396.7	1370.0	1352.2
135°	1466.0	1467.7	1444.6	1426.9	1400.2	1400.2	1384.2	1359.3	1336.2	1313.1	1290.0
137.5°	1400.2	1412.7	1378.9	1362.9	1348.7	1338.0	1316.7	1293.6	1268.7	1259.8	1242.1
140°	1332.7	1334.5	1307.8	1293.6	1282.9	1263.4	1251.0	1229.6	1220.7	1204.8	1179.9
142.5°	1274.1	1266.9	1245.6	1229.6	1219.0	1204.8	1197.6	1176.3	1162.1	1147.9	1139.0
145°	1204.8	1203.0	1178.1	1167.4	1158.6	1153.2	1140.8	1124.8	1117.7	1105.2	1105.2
147.5°	1146.1	1137.2	1123.0	1110.6	1099.9	1094.6	1094.6	1066.2	1071.5	1069.7	1053.7
150°	1083.9	1082.1	1062.6	1057.3	1048.4	1051.9	1048.4	1035.9	1035.9	1028.8	1018.2
152.5°	1034.2	1034.2	1018.2	1014.6	1011.1	1009.3	1002.2	996.9	996.9	995.1	982.6
155°	993.3	993.3	980.9	979.1	973.8	972.0	968.4	963.1	959.5	956.0	945.3
157.5°	959.5	957.8	943.5	945.3	940.0	940.0	938.2	927.6	931.1	929.3	922.2
160°	927.6	925.8	911.6	916.9	913.3	913.3	913.3	906.2	902.7	902.7	886.7
162.5°	899.1	902.7	888.5	886.7	888.5	888.5	881.4	876.0	881.4	886.7	870.7
165°	874.2	870.7	865.4	863.6	860.0	856.5	860.0	856.5	852.9	860.0	854.7
167.5°	849.4	852.9	842.3	838.7	838.7	845.8	840.5	833.4	836.9	835.2	824.5
170°	828.0	831.6	817.4	817.4	817.4	817.4	812.1	806.7	815.6	819.2	806.7
172.5°	806.7	812.1	799.6	797.8	796.1	799.6	796.1	790.7	801.4	796.1	790.7
175°	783.6	792.5	780.1	778.3	781.8	781.8	778.3	774.7	781.8	778.3	774.7
177.5°	773.0	773.0	760.5	762.3	762.3	760.5	765.9	764.1	765.9	765.9	773.0
180°	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0



TEST NUMBER: P508424

CATALOG NUMBER: ASYX-X-S1-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°	40.9	48.0	51.5	28.4	28.4	32.0	30.2	26.7	23.1	21.3	21.3
95°	307.4	291.4	300.3	270.1	234.6	206.1	204.3	206.1	142.2	106.6	104.8
97.5°	661.0	653.9	598.8	513.5	488.7	490.4	460.2	382.0	319.8	273.6	236.3
100°	860.0	836.9	812.1	829.8	780.1	741.0	685.9	616.6	543.7	481.5	396.3
102.5°	1226.1	1190.5	1099.9	1000.4	900.9	865.4	824.5	746.3	669.9	597.0	510.0
105°	1560.1	1499.7	1346.9	1204.8	1069.7	1028.8	975.5	888.5	799.6	726.8	630.8
107.5°	1640.1	1595.7	1510.4	1414.4	1297.2	1229.6	1179.9	1085.7	1002.2	902.7	792.5
110°	1647.2	1602.8	1549.5	1483.7	1426.9	1387.8	1355.8	1284.7	1224.3	1137.2	1025.3
112.5°	1627.7	1586.8	1547.7	1510.4	1466.0	1442.9	1414.4	1389.6	1354.0	1297.2	1192.3
115°	1595.7	1560.1	1524.6	1492.6	1471.3	1460.6	1446.4	1426.9	1407.3	1364.7	1270.5
117.5°	1565.5	1524.6	1492.6	1482.0	1462.4	1446.4	1444.6	1441.1	1428.6	1407.3	1316.7
120°	1535.3	1503.3	1471.3	1448.2	1441.1	1439.3	1439.3	1428.6	1432.2	1414.4	1323.8
122.5°	1487.3	1462.4	1435.8	1425.1	1394.9	1402.0	1405.5	1398.4	1412.7	1400.2	1314.9
125°	1458.9	1434.0	1400.2	1384.2	1378.9	1371.8	1378.9	1366.5	1373.6	1364.7	1298.9
127.5°	1410.9	1378.9	1361.1	1348.7	1345.1	1320.3	1332.7	1334.5	1336.2	1322.0	1263.4
130°	1359.3	1341.6	1300.7	1306.0	1306.0	1297.2	1298.9	1291.8	1288.3	1275.8	1208.3
132.5°	1322.0	1298.9	1272.3	1265.2	1258.1	1256.3	1256.3	1243.8	1243.8	1227.9	1183.4
135°	1256.3	1240.3	1229.6	1222.5	1220.7	1213.6	1213.6	1201.2	1199.4	1185.2	1140.8
137.5°	1210.1	1194.1	1185.2	1179.9	1174.5	1162.1	1169.2	1158.6	1147.9	1144.3	1101.7
140°	1163.9	1151.4	1144.3	1135.5	1133.7	1126.6	1126.6	1114.1	1110.6	1094.6	1051.9
142.5°	1124.8	1117.7	1103.5	1099.9	1087.5	1089.3	1080.4	1082.1	1067.9	1050.2	1016.4
145°	1071.5	1073.3	1066.2	1059.0	1057.3	1046.6	1048.4	1037.7	1028.8	1016.4	989.7
147.5°	1043.1	1043.1	1032.4	1023.5	1016.4	1014.6	1005.7	1007.5	993.3	975.5	957.8
150°	1005.7	1002.2	991.5	986.2	980.9	980.9	972.0	966.6	956.0	950.7	927.6
152.5°	979.1	970.2	964.9	954.2	954.2	945.3	938.2	934.7	925.8	915.1	897.3
155°	941.8	938.2	931.1	929.3	922.2	915.1	902.7	900.9	895.6	884.9	868.9
157.5°	911.6	916.9	906.2	900.9	890.2	888.5	876.0	877.8	867.1	860.0	845.8
160°	897.3	888.5	877.8	876.0	872.5	858.3	856.5	851.1	844.0	838.7	820.9
162.5°	865.4	863.6	858.3	854.7	842.3	842.3	820.9	829.8	824.5	819.2	810.3
165°	847.6	849.4	836.9	833.4	829.8	822.7	817.4	812.1	806.7	803.2	794.3
167.5°	824.5	820.9	817.4	810.3	812.1	806.7	801.4	797.8	794.3	790.7	783.6
170°	804.9	803.2	799.6	794.3	796.1	790.7	790.7	783.6	781.8	780.1	771.2
172.5°	789.0	789.0	785.4	785.4	783.6	778.3	774.7	771.2	771.2	767.6	765.9
175°	773.0	774.7	773.0	771.2	771.2	767.6	767.6	769.4	765.9	765.9	760.5
177.5°	760.5	760.5	760.5	760.5	760.5	760.5	760.5	758.7	760.5	758.7	753.4
180°	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0



TEST NUMBER: P508424

CATALOG NUMBER: ASYX-X-S1-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°	23.1	24.9	26.7	28.4	33.8	32.0	37.3	39.1	42.6	49.8	51.5
95°	94.2	94.2	92.4	92.4	88.8	88.8	87.1	85.3	94.2	104.8	119.1
97.5°	193.7	165.3	151.0	145.7	143.9	142.2	138.6	133.3	136.8	145.7	163.5
100°	327.0	270.1	223.9	197.2	191.9	183.0	179.5	177.7	177.7	195.5	223.9
102.5°	422.9	339.4	279.0	239.9	229.2	220.3	215.0	215.0	218.6	239.9	271.9
105°	534.9	428.2	335.8	284.3	275.4	263.0	254.1	255.9	259.4	279.0	307.4
107.5°	669.9	542.0	431.8	351.8	332.3	314.5	300.3	300.3	302.1	314.5	335.8
110°	872.5	707.2	542.0	422.9	390.9	371.4	337.6	337.6	335.8	344.7	358.9
112.5°	1027.1	835.2	646.8	494.0	449.6	417.6	382.0	371.4	371.4	373.2	382.0
115°	1119.5	920.4	719.7	559.7	501.1	462.0	417.6	405.1	399.8	403.4	399.8
117.5°	1172.8	972.0	781.8	607.7	552.6	508.2	453.1	437.1	428.2	435.3	433.6
120°	1199.4	1018.2	831.6	657.5	600.6	549.1	490.4	474.4	467.3	467.3	469.1
122.5°	1203.0	1043.1	860.0	701.9	645.0	595.3	534.9	511.8	504.6	506.4	506.4
125°	1190.5	1039.5	886.7	737.4	682.3	632.6	570.4	550.8	534.9	542.0	543.7
127.5°	1171.0	1030.6	902.7	765.9	716.1	671.7	614.8	591.7	577.5	581.1	579.3
130°	1142.6	1020.0	916.9	790.7	748.1	703.7	653.9	632.6	613.0	614.8	616.6
132.5°	1114.1	1016.4	924.0	810.3	774.7	737.4	687.7	666.3	648.6	650.4	650.4
135°	1083.9	1007.5	915.1	822.7	804.9	765.9	725.0	701.9	687.7	687.7	684.1
137.5°	1051.9	986.2	922.2	847.6	822.7	790.7	749.9	732.1	717.9	716.1	714.3
140°	1023.5	963.1	913.3	852.9	835.2	810.3	776.5	762.3	742.8	739.2	749.9
142.5°	995.1	952.4	922.2	865.4	847.6	826.3	801.4	781.8	767.6	764.1	762.3
145°	966.6	941.8	908.0	861.8	854.7	833.4	806.7	801.4	785.4	781.8	781.8
147.5°	938.2	916.9	892.0	860.0	860.0	842.3	829.8	813.8	801.4	794.3	794.3
150°	913.3	895.6	883.1	858.3	856.5	842.3	831.6	824.5	810.3	806.7	804.9
152.5°	890.2	874.2	863.6	847.6	845.8	826.3	829.8	822.7	808.5	804.9	804.9
155°	861.8	860.0	847.6	831.6	838.7	828.0	819.2	828.0	806.7	810.3	810.3
157.5°	842.3	840.5	838.7	822.7	824.5	819.2	813.8	820.9	803.2	804.9	804.9
160°	820.9	817.4	817.4	803.2	813.8	803.2	804.9	808.5	797.8	799.6	804.9
162.5°	810.3	803.2	803.2	797.8	801.4	797.8	789.0	801.4	799.6	796.1	797.8
165°	792.5	790.7	794.3	783.6	792.5	781.8	785.4	790.7	787.2	789.0	790.7
167.5°	781.8	780.1	781.8	776.5	781.8	778.3	776.5	783.6	780.1	781.8	783.6
170°	773.0	773.0	774.7	769.4	774.7	769.4	774.7	774.7	773.0	773.0	776.5
172.5°	769.4	764.1	769.4	760.5	769.4	758.7	762.3	767.6	765.9	764.1	764.1
175°	762.3	760.5	765.9	757.0	762.3	757.0	757.0	762.3	760.5	758.7	765.9
177.5°	762.3	757.0	762.3	753.4	758.7	755.2	755.2	760.5	757.0	757.0	762.3
180°	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0





TEST NUMBER: P508424

CATALOG NUMBER: ASYX-X-S1-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°	51.5	60.4	62.2	67.5	65.7	55.1	48.0	39.1	33.8
95°	135.0	149.3	163.5	161.7	167.0	156.4	145.7	140.4	133.3
97.5°	181.2	204.3	218.6	218.6	220.3	213.2	209.7	213.2	204.3
100°	255.9	271.9	277.2	275.4	270.1	257.7	250.5	247.0	241.7
102.5°	300.3	318.1	323.4	319.8	316.3	311.0	303.9	300.3	298.5
105°	330.5	346.5	353.6	351.8	350.1	341.2	327.0	332.3	330.5
107.5°	358.9	369.6	376.7	371.4	369.6	364.3	355.4	360.7	353.6
110°	376.7	385.6	387.4	387.4	383.8	378.5	371.4	373.2	367.8
112.5°	390.9	396.3	396.3	396.3	392.7	385.6	382.0	378.5	378.5
115°	406.9	403.4	405.1	405.1	401.6	390.9	385.6	382.0	378.5
117.5°	435.3	430.0	424.7	424.7	415.8	408.7	403.4	398.0	392.7
120°	462.0	458.4	454.9	449.6	444.2	435.3	426.5	419.4	415.8
122.5°	497.5	488.7	483.3	486.9	476.2	467.3	456.7	449.6	440.7
125°	536.6	529.5	520.6	517.1	508.2	501.1	492.2	485.1	474.4
127.5°	570.4	559.7	556.2	554.4	543.7	534.9	520.6	515.3	515.3
130°	609.5	597.0	598.8	589.9	581.1	566.8	552.6	552.6	550.8
132.5°	646.8	632.6	630.8	627.3	616.6	605.9	597.0	595.3	588.2
135°	677.0	666.3	664.6	661.0	652.1	641.5	627.3	630.8	616.6
137.5°	703.7	698.3	696.6	689.4	680.6	678.8	662.8	661.0	652.1
140°	733.9	723.2	730.3	721.4	710.8	707.2	685.9	689.4	689.4
142.5°	755.2	749.9	748.1	744.5	737.4	730.3	725.0	717.9	721.4
145°	776.5	773.0	769.4	769.4	758.7	755.2	744.5	744.5	739.2
147.5°	794.3	787.2	787.2	783.6	778.3	774.7	764.1	769.4	760.5
150°	794.3	797.8	794.3	794.3	796.1	794.3	785.4	781.8	783.6
152.5°	808.5	803.2	799.6	806.7	797.8	803.2	790.7	794.3	790.7
155°	801.4	804.9	806.7	803.2	803.2	803.2	797.8	806.7	797.8
157.5°	808.5	804.9	806.7	804.9	801.4	806.7	801.4	808.5	803.2
160°	804.9	801.4	804.9	803.2	799.6	806.7	806.7	812.1	804.9
162.5°	792.5	796.1	804.9	799.6	799.6	812.1	792.5	810.3	799.6
165°	789.0	790.7	794.3	797.8	790.7	796.1	796.1	797.8	792.5
167.5°	785.4	778.3	785.4	785.4	787.2	787.2	787.2	790.7	783.6
170°	778.3	764.1	778.3	778.3	774.7	774.7	773.0	783.6	774.7
172.5°	765.9	762.3	767.6	767.6	771.2	769.4	769.4	771.2	765.9
175°	758.7	760.5	767.6	762.3	760.5	762.3	757.0	762.3	757.0
177.5°	755.2	755.2	757.0	758.7	762.3	758.7	753.4	758.7	753.4
180°	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0

(END OF REPORT)