

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: P508426

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

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508426
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-L40-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(1) AF LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

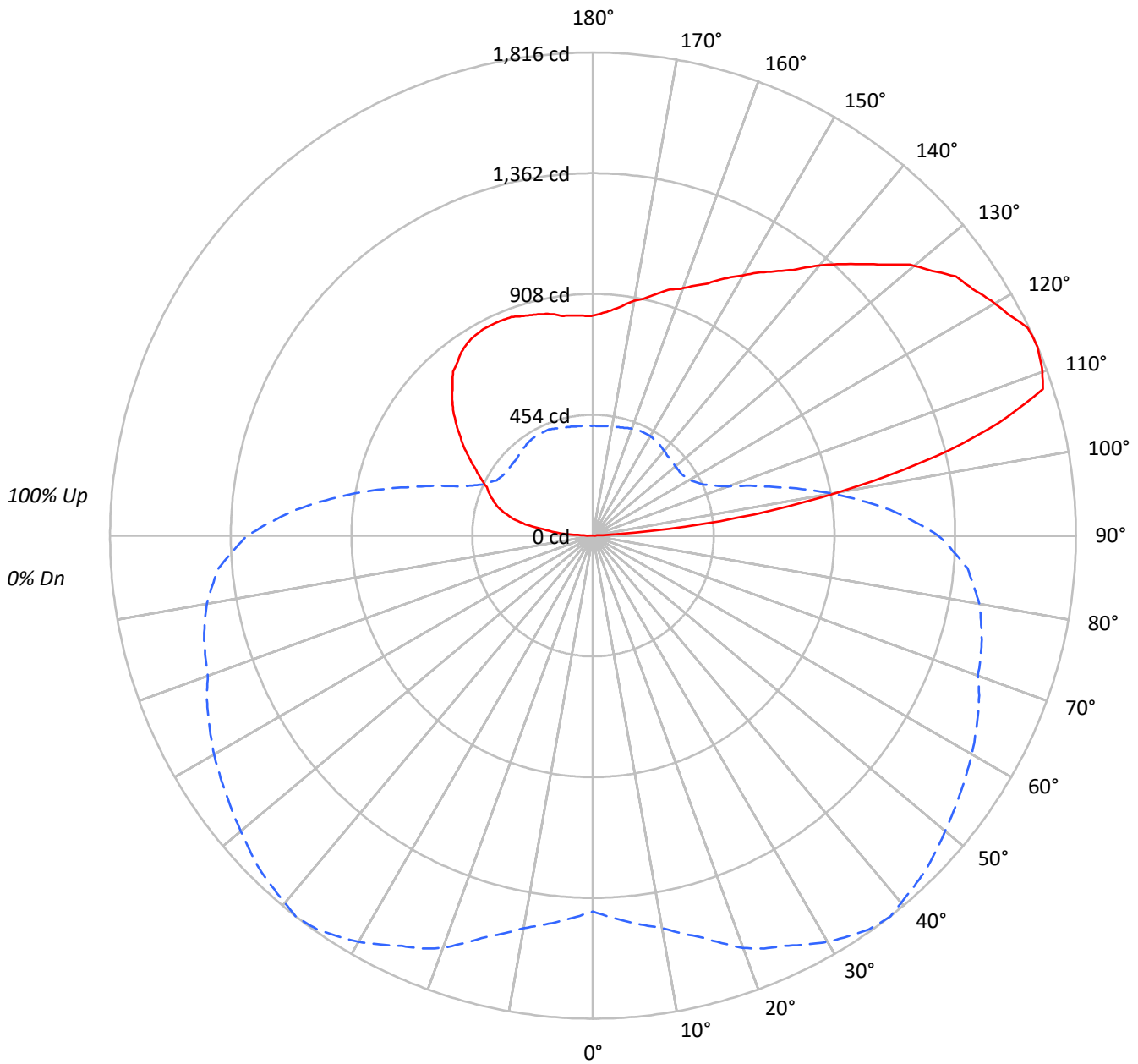
Lumens per Lamp: N/A
Luminaire Lumens: 5458.3 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Indirect

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: P508426
CATALOG NUMBER: ASYX-X-S1-X-U-W-L40-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot



— Vertical Plane Through 38° Lateral - - - Horizontal Cone Through 112.5° Vertical



TEST NUMBER: P508426

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

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									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°	50685	56416	71730
100°	138206	107014	65260
105°	138457	114302	59888
110°	154236	140590	50443
115°	162679	140989	42004
120°	152512	124173	39000
125°	133233	106210	38794
130°	114607	88163	40190
135°	97229	75662	40894
140°	81593	64406	42210
145°	68976	56666	42322
150°	58700	50233	42438
155°	51402	44965	41288
160°	46295	40971	40174
165°	42448	38566	38481
170°	39435	36725	36895
175°	36893	35804	35639



TEST NUMBER: P508426

CATALOG NUMBER: ASYX-X-S1-X-U-W-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°	223.4	4.1
100°-110°	808.6	14.8
110°-120°	1090.1	20.0
120°-130°	1037.5	19.0
130°-140°	864.4	15.8
140°-150°	654.9	12.0
150°-160°	445.7	8.2
160°-170°	253.2	4.6
170°-180°	80.5	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°	2122.1	38.9
90°-150°	4678.9	85.7
90°-180°	5458.0	100.0
0°-180°	5458.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	103	335	114	114	145	182
105°	832	1699	687	304	360	903
115°	1597	1738	1384	439	412	1540
125°	1775	1589	1415	590	517	1584
135°	1597	1368	1243	749	672	1237
145°	1312	1167	1078	852	805	830
155°	1082	1026	946	883	869	506
165°	952	923	865	859	863	272
175°	854	842	828	826	825	83
180°	825	825	825	825	825	



TEST NUMBER: P508426

CATALOG NUMBER: ASYX-X-S1-X-U-W-L40-1-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°	15.5	15.5	15.5	17.4	19.4	21.3	21.3	27.1	34.8	36.8	42.6
95°	102.6	118.1	176.1	203.2	205.2	211.0	211.0	267.1	332.9	348.4	363.9
97.5°	274.9	294.2	356.1	404.5	474.2	493.6	516.8	563.3	634.9	677.5	698.7
100°	557.4	561.3	594.2	638.7	714.2	756.8	809.1	936.8	1000.7	1000.7	977.5
102.5°	706.5	710.4	739.4	782.0	871.0	934.9	994.9	1149.7	1279.4	1327.8	1347.2
105°	832.3	845.8	876.8	936.8	1045.2	1116.8	1173.0	1349.1	1500.1	1583.3	1647.2
107.5°	993.0	1014.2	1066.5	1136.2	1265.9	1349.1	1420.7	1563.9	1695.6	1778.8	1776.9
110°	1225.2	1236.8	1291.0	1382.0	1494.3	1560.1	1604.6	1705.2	1794.3	1802.0	1805.9
112.5°	1413.0	1455.6	1498.1	1562.0	1649.1	1680.1	1701.4	1763.3	1807.8	1815.6	1802.0
115°	1596.8	1612.3	1633.6	1676.2	1716.9	1747.8	1751.7	1784.6	1794.3	1811.7	1780.7
117.5°	1711.0	1718.8	1720.7	1736.2	1757.5	1774.9	1771.1	1780.7	1792.3	1769.1	1753.6
120°	1771.1	1778.8	1765.2	1771.1	1776.9	1780.7	1773.0	1776.9	1755.6	1738.1	1720.7
122.5°	1794.3	1792.3	1778.8	1778.8	1771.1	1769.1	1753.6	1740.1	1724.6	1701.4	1680.1
125°	1774.9	1782.7	1765.2	1751.7	1734.3	1763.3	1724.6	1711.0	1684.0	1676.2	1635.6
127.5°	1749.8	1765.2	1736.2	1722.7	1705.2	1699.4	1676.2	1656.9	1637.5	1616.2	1589.1
130°	1711.0	1716.9	1689.8	1676.2	1658.8	1641.4	1637.5	1594.9	1581.4	1567.8	1531.0
132.5°	1672.3	1662.7	1635.6	1618.1	1596.8	1587.2	1577.5	1540.7	1521.4	1492.3	1473.0
135°	1596.8	1598.8	1573.6	1554.3	1525.2	1525.2	1507.8	1480.7	1455.6	1430.4	1405.2
137.5°	1525.2	1538.8	1502.0	1484.6	1469.1	1457.5	1434.3	1409.1	1382.0	1372.3	1353.0
140°	1451.7	1453.6	1424.6	1409.1	1397.5	1376.2	1362.6	1339.4	1329.7	1312.3	1285.2
142.5°	1387.8	1380.1	1356.8	1339.4	1327.8	1312.3	1304.6	1281.4	1265.9	1250.4	1240.7
145°	1312.3	1310.4	1283.3	1271.7	1262.0	1256.2	1242.6	1225.2	1217.5	1203.9	1203.9
147.5°	1248.4	1238.8	1223.3	1209.7	1198.1	1192.3	1192.3	1161.3	1167.2	1165.2	1147.8
150°	1180.7	1178.8	1157.5	1151.7	1142.0	1145.9	1142.0	1128.4	1128.4	1120.7	1109.1
152.5°	1126.5	1126.5	1109.1	1105.2	1101.3	1099.4	1091.7	1085.9	1085.9	1083.9	1070.4
155°	1082.0	1082.0	1068.4	1066.5	1060.7	1058.8	1054.9	1049.1	1045.2	1041.3	1029.7
157.5°	1045.2	1043.3	1027.8	1029.7	1023.9	1023.9	1022.0	1010.4	1014.2	1012.3	1004.6
160°	1010.4	1008.4	993.0	998.8	994.9	994.9	994.9	987.1	983.3	983.3	965.9
162.5°	979.4	983.3	967.8	965.9	967.8	967.8	960.0	954.2	960.0	965.9	948.4
165°	952.3	948.4	942.6	940.7	936.8	932.9	936.8	932.9	929.1	936.8	931.0
167.5°	925.2	929.1	917.5	913.6	913.6	921.3	915.5	907.8	911.7	909.7	898.1
170°	902.0	905.8	890.4	890.4	890.4	890.4	884.6	878.8	888.4	892.3	878.8
172.5°	878.8	884.6	871.0	869.1	867.1	871.0	867.1	861.3	872.9	867.1	861.3
175°	853.6	863.3	849.7	847.8	851.7	851.7	847.8	843.9	851.7	847.8	843.9
177.5°	842.0	842.0	828.4	830.4	830.4	828.4	834.2	832.3	834.2	834.2	842.0
180°	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6



TEST NUMBER: P508426

CATALOG NUMBER: ASYX-X-S1-X-U-W-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°	44.5	52.3	56.1	31.0	31.0	34.8	32.9	29.0	25.2	23.2	23.2
95°	334.9	317.4	327.1	294.2	255.5	224.5	222.6	224.5	154.8	116.1	114.2
97.5°	720.0	712.3	652.3	559.4	532.3	534.2	501.3	416.1	348.4	298.1	257.4
100°	936.8	911.7	884.6	903.9	849.7	807.1	747.1	671.6	592.3	524.5	431.6
102.5°	1335.5	1296.8	1198.1	1089.7	981.3	942.6	898.1	812.9	729.7	650.4	555.5
105°	1699.4	1633.6	1467.2	1312.3	1165.2	1120.7	1062.6	967.8	871.0	791.7	687.1
107.5°	1786.5	1738.1	1645.2	1540.7	1413.0	1339.4	1285.2	1182.6	1091.7	983.3	863.3
110°	1794.3	1745.9	1687.8	1616.2	1554.3	1511.7	1476.8	1399.4	1333.6	1238.8	1116.8
112.5°	1773.0	1728.5	1685.9	1645.2	1596.8	1571.7	1540.7	1513.6	1474.9	1413.0	1298.8
115°	1738.1	1699.4	1660.7	1625.9	1602.7	1591.0	1575.6	1554.3	1533.0	1486.5	1383.9
117.5°	1705.2	1660.7	1625.9	1614.3	1593.0	1575.6	1573.6	1569.8	1556.2	1533.0	1434.3
120°	1672.3	1637.5	1602.7	1577.5	1569.8	1567.8	1567.8	1556.2	1560.1	1540.7	1442.0
122.5°	1620.1	1593.0	1563.9	1552.3	1519.4	1527.2	1531.0	1523.3	1538.8	1525.2	1432.3
125°	1589.1	1562.0	1525.2	1507.8	1502.0	1494.3	1502.0	1488.5	1496.2	1486.5	1414.9
127.5°	1536.8	1502.0	1482.7	1469.1	1465.2	1438.1	1451.7	1453.6	1455.6	1440.1	1376.2
130°	1480.7	1461.4	1416.8	1422.6	1422.6	1413.0	1414.9	1407.2	1403.3	1389.7	1316.2
132.5°	1440.1	1414.9	1385.9	1378.1	1370.4	1368.5	1368.5	1354.9	1354.9	1337.5	1289.1
135°	1368.5	1351.0	1339.4	1331.7	1329.7	1322.0	1322.0	1308.4	1306.5	1291.0	1242.6
137.5°	1318.1	1300.7	1291.0	1285.2	1279.4	1265.9	1273.6	1262.0	1250.4	1246.5	1200.1
140°	1267.8	1254.3	1246.5	1236.8	1234.9	1227.2	1227.2	1213.6	1209.7	1192.3	1145.9
142.5°	1225.2	1217.5	1202.0	1198.1	1184.6	1186.5	1176.8	1178.8	1163.3	1143.9	1107.1
145°	1167.2	1169.1	1161.3	1153.6	1151.7	1140.1	1142.0	1130.4	1120.7	1107.1	1078.1
147.5°	1136.2	1136.2	1124.6	1114.9	1107.1	1105.2	1095.5	1097.5	1082.0	1062.6	1043.3
150°	1095.5	1091.7	1080.1	1074.2	1068.4	1068.4	1058.8	1053.0	1041.3	1035.5	1010.4
152.5°	1066.5	1056.8	1051.0	1039.4	1039.4	1029.7	1022.0	1018.1	1008.4	996.8	977.5
155°	1025.9	1022.0	1014.2	1012.3	1004.6	996.8	983.3	981.3	975.5	963.9	946.5
157.5°	993.0	998.8	987.1	981.3	969.7	967.8	954.2	956.2	944.6	936.8	921.3
160°	977.5	967.8	956.2	954.2	950.4	934.9	932.9	927.1	919.4	913.6	894.2
162.5°	942.6	940.7	934.9	931.0	917.5	917.5	894.2	903.9	898.1	892.3	882.6
165°	923.3	925.2	911.7	907.8	903.9	896.2	890.4	884.6	878.8	874.9	865.2
167.5°	898.1	894.2	890.4	882.6	884.6	878.8	872.9	869.1	865.2	861.3	853.6
170°	876.8	874.9	871.0	865.2	867.1	861.3	861.3	853.6	851.7	849.7	840.0
172.5°	859.4	859.4	855.5	855.5	853.6	847.8	843.9	840.0	840.0	836.2	834.2
175°	842.0	843.9	842.0	840.0	840.0	836.2	836.2	838.1	834.2	834.2	828.4
177.5°	828.4	828.4	828.4	828.4	828.4	828.4	828.4	826.5	828.4	826.5	820.7
180°	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6



TEST NUMBER: P508426

CATALOG NUMBER: ASYX-X-S1-X-U-W-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°	25.2	27.1	29.0	31.0	36.8	34.8	40.6	42.6	46.5	54.2	56.1
95°	102.6	102.6	100.6	100.6	96.8	96.8	94.8	92.9	102.6	114.2	129.7
97.5°	211.0	180.0	164.5	158.7	156.8	154.8	151.0	145.2	149.0	158.7	178.1
100°	356.1	294.2	243.9	214.8	209.0	199.4	195.5	193.6	193.6	212.9	243.9
102.5°	460.7	369.7	303.9	261.3	249.7	240.0	234.2	234.2	238.1	261.3	296.1
105°	582.6	466.5	365.8	309.7	300.0	286.5	276.8	278.7	282.6	303.9	334.9
107.5°	729.7	590.4	470.3	383.2	362.0	342.6	327.1	327.1	329.0	342.6	365.8
110°	950.4	770.4	590.4	460.7	425.8	404.5	367.8	367.8	365.8	375.5	391.0
112.5°	1118.8	909.7	704.5	538.1	489.7	454.9	416.1	404.5	404.5	406.5	416.1
115°	1219.4	1002.6	783.9	609.7	545.8	503.2	454.9	441.3	435.5	439.4	435.5
117.5°	1277.5	1058.8	851.7	662.0	602.0	553.6	493.6	476.2	466.5	474.2	472.3
120°	1306.5	1109.1	905.8	716.2	654.2	598.1	534.2	516.8	509.1	509.1	511.0
122.5°	1310.4	1136.2	936.8	764.6	702.6	648.4	582.6	557.4	549.7	551.6	551.6
125°	1296.8	1132.3	965.9	803.3	743.3	689.1	621.3	600.0	582.6	590.4	592.3
127.5°	1275.5	1122.6	983.3	834.2	780.0	731.6	669.7	644.5	629.1	632.9	631.0
130°	1244.6	1111.0	998.8	861.3	814.9	766.5	712.3	689.1	667.8	669.7	671.6
132.5°	1213.6	1107.1	1006.5	882.6	843.9	803.3	749.1	725.8	706.5	708.4	708.4
135°	1180.7	1097.5	996.8	896.2	876.8	834.2	789.7	764.6	749.1	749.1	745.2
137.5°	1145.9	1074.2	1004.6	923.3	896.2	861.3	816.8	797.5	782.0	780.0	778.1
140°	1114.9	1049.1	994.9	929.1	909.7	882.6	845.8	830.4	809.1	805.2	816.8
142.5°	1083.9	1037.5	1004.6	942.6	923.3	900.0	872.9	851.7	836.2	832.3	830.4
145°	1053.0	1025.9	989.1	938.8	931.0	907.8	878.8	872.9	855.5	851.7	851.7
147.5°	1022.0	998.8	971.7	936.8	936.8	917.5	903.9	886.5	872.9	865.2	865.2
150°	994.9	975.5	962.0	934.9	932.9	917.5	905.8	898.1	882.6	878.8	876.8
152.5°	969.7	952.3	940.7	923.3	921.3	900.0	903.9	896.2	880.7	876.8	876.8
155°	938.8	936.8	923.3	905.8	913.6	902.0	892.3	902.0	878.8	882.6	882.6
157.5°	917.5	915.5	913.6	896.2	898.1	892.3	886.5	894.2	874.9	876.8	876.8
160°	894.2	890.4	890.4	874.9	886.5	874.9	876.8	880.7	869.1	871.0	876.8
162.5°	882.6	874.9	874.9	869.1	872.9	869.1	859.4	872.9	871.0	867.1	869.1
165°	863.3	861.3	865.2	853.6	863.3	851.7	855.5	861.3	857.5	859.4	861.3
167.5°	851.7	849.7	851.7	845.8	851.7	847.8	845.8	853.6	849.7	851.7	853.6
170°	842.0	842.0	843.9	838.1	843.9	838.1	843.9	843.9	842.0	842.0	845.8
172.5°	838.1	832.3	838.1	828.4	838.1	826.5	830.4	836.2	834.2	832.3	832.3
175°	830.4	828.4	834.2	824.6	830.4	824.6	824.6	830.4	828.4	826.5	834.2
177.5°	830.4	824.6	830.4	820.7	826.5	822.6	822.6	828.4	824.6	824.6	830.4
180°	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6



TEST NUMBER: P508426

CATALOG NUMBER: ASYX-X-S1-X-U-W-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°	56.1	65.8	67.7	73.6	71.6	60.0	52.3	42.6	36.8
95°	147.1	162.6	178.1	176.1	181.9	170.3	158.7	152.9	145.2
97.5°	197.4	222.6	238.1	238.1	240.0	232.3	228.4	232.3	222.6
100°	278.7	296.1	301.9	300.0	294.2	280.7	272.9	269.0	263.2
102.5°	327.1	346.5	352.3	348.4	344.5	338.7	331.0	327.1	325.2
105°	360.0	377.4	385.2	383.2	381.3	371.6	356.1	362.0	360.0
107.5°	391.0	402.6	410.3	404.5	402.6	396.8	387.1	392.9	385.2
110°	410.3	420.0	422.0	422.0	418.1	412.3	404.5	406.5	400.7
112.5°	425.8	431.6	431.6	431.6	427.8	420.0	416.1	412.3	412.3
115°	443.2	439.4	441.3	441.3	437.4	425.8	420.0	416.1	412.3
117.5°	474.2	468.4	462.6	462.6	452.9	445.2	439.4	433.6	427.8
120°	503.2	499.4	495.5	489.7	483.9	474.2	464.5	456.8	452.9
122.5°	542.0	532.3	526.5	530.3	518.7	509.1	497.4	489.7	480.0
125°	584.5	576.8	567.1	563.3	553.6	545.8	536.2	528.4	516.8
127.5°	621.3	609.7	605.8	603.9	592.3	582.6	567.1	561.3	561.3
130°	663.9	650.4	652.3	642.6	632.9	617.4	602.0	602.0	600.0
132.5°	704.5	689.1	687.1	683.3	671.6	660.0	650.4	648.4	640.7
135°	737.5	725.8	723.9	720.0	710.4	698.7	683.3	687.1	671.6
137.5°	766.5	760.7	758.7	751.0	741.3	739.4	722.0	720.0	710.4
140°	799.4	787.8	795.5	785.8	774.2	770.4	747.1	751.0	751.0
142.5°	822.6	816.8	814.9	811.0	803.3	795.5	789.7	782.0	785.8
145°	845.8	842.0	838.1	838.1	826.5	822.6	811.0	811.0	805.2
147.5°	865.2	857.5	857.5	853.6	847.8	843.9	832.3	838.1	828.4
150°	865.2	869.1	865.2	865.2	867.1	865.2	855.5	851.7	853.6
152.5°	880.7	874.9	871.0	878.8	869.1	874.9	861.3	865.2	861.3
155°	872.9	876.8	878.8	874.9	874.9	874.9	869.1	878.8	869.1
157.5°	880.7	876.8	878.8	876.8	872.9	878.8	872.9	880.7	874.9
160°	876.8	872.9	876.8	874.9	871.0	878.8	878.8	884.6	876.8
162.5°	863.3	867.1	876.8	871.0	871.0	884.6	863.3	882.6	871.0
165°	859.4	861.3	865.2	869.1	861.3	867.1	867.1	869.1	863.3
167.5°	855.5	847.8	855.5	855.5	857.5	857.5	857.5	861.3	853.6
170°	847.8	832.3	847.8	847.8	843.9	843.9	842.0	853.6	843.9
172.5°	834.2	830.4	836.2	836.2	840.0	838.1	838.1	840.0	834.2
175°	826.5	828.4	836.2	830.4	828.4	830.4	824.6	830.4	824.6
177.5°	822.6	822.6	824.6	826.5	830.4	826.5	820.7	826.5	820.7
180°	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6

(END OF REPORT)