

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: P508423

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

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508423
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-L27-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(1) AF LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4832.0 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Indirect

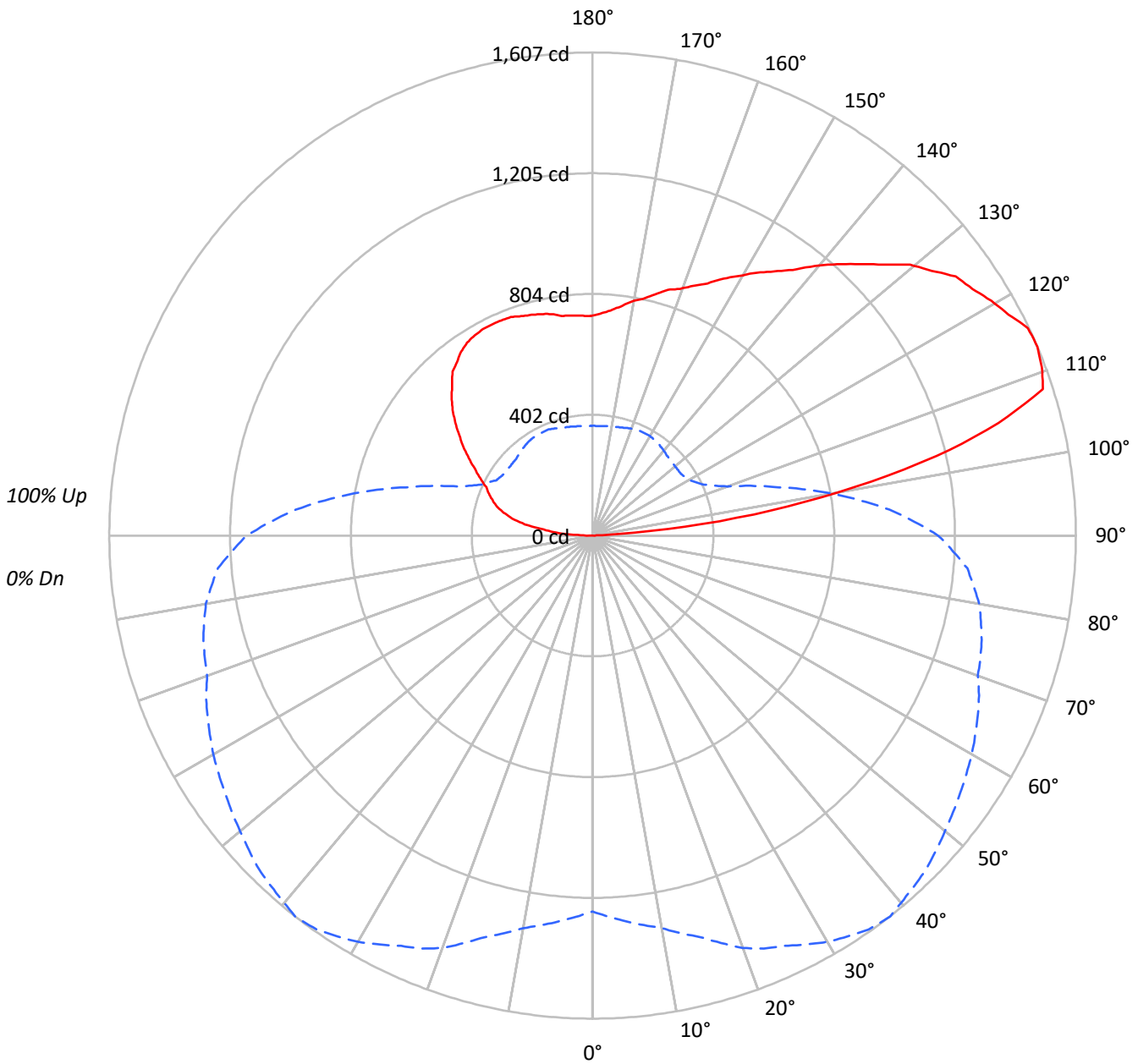
Input Watts (W): 56
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P508423

CATALOG NUMBER: ASYX-X-S1-X-U-W-L27-1-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									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	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°	44856	49944	63480
100°	122362	94741	57772
105°	122570	101193	53017
110°	136536	124464	44652
115°	144015	124811	37186
120°	135005	109921	34522
125°	117943	94019	34342
130°	101459	78048	35581
135°	86074	66979	36205
140°	72229	57015	37365
145°	61060	50164	37466
150°	51964	44466	37566
155°	45502	39806	36547
160°	40980	36270	35565
165°	37576	34140	34064
170°	34910	32510	32663
175°	32657	31698	31546



TEST NUMBER: P508423

CATALOG NUMBER: ASYX-X-S1-X-U-W-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°	197.8	4.1
100°-110°	715.9	14.8
110°-120°	965.0	20.0
120°-130°	918.5	19.0
130°-140°	765.2	15.8
140°-150°	579.7	12.0
150°-160°	394.5	8.2
160°-170°	224.2	4.6
170°-180°	71.3	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°	1878.6	38.9
90°-150°	4142.0	85.7
90°-180°	4832.0	100.0
0°-180°	4832.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	91	296	101	101	128	162
105°	737	1504	608	269	319	799
115°	1414	1539	1225	389	365	1363
125°	1571	1407	1252	523	458	1402
135°	1414	1211	1100	663	595	1095
145°	1162	1033	954	754	713	735
155°	958	908	838	781	769	448
165°	843	817	766	761	764	241
175°	756	745	733	732	730	74
180°	730	730	730	730	730	



TEST NUMBER: P508423

CATALOG NUMBER: ASYX-X-S1-X-U-W-L27-1-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°	13.7	13.7	13.7	15.4	17.1	18.8	18.8	24.0	30.8	32.6	37.7
95°	90.8	104.5	155.9	179.9	181.6	186.8	186.8	236.5	294.7	308.4	322.1
97.5°	243.3	260.4	315.3	358.1	419.8	436.9	457.5	498.6	562.0	599.7	618.6
100°	493.5	496.9	526.0	565.4	632.3	670.0	716.2	829.3	885.9	885.9	865.3
102.5°	625.4	628.8	654.5	692.2	771.1	827.6	880.7	1017.8	1132.6	1175.4	1192.6
105°	736.8	748.8	776.2	829.3	925.3	988.7	1038.4	1194.3	1327.9	1401.6	1458.2
107.5°	879.0	897.9	944.1	1005.8	1120.6	1194.3	1257.7	1384.5	1501.0	1574.7	1573.0
110°	1084.6	1094.9	1142.9	1223.4	1322.8	1381.0	1420.5	1509.6	1588.4	1595.2	1598.7
112.5°	1250.8	1288.5	1326.2	1382.8	1459.9	1487.3	1506.1	1561.0	1600.4	1607.2	1595.2
115°	1413.6	1427.3	1446.2	1483.9	1519.8	1547.3	1550.7	1579.8	1588.4	1603.8	1576.4
117.5°	1514.7	1521.6	1523.3	1537.0	1555.8	1571.2	1567.8	1576.4	1586.7	1566.1	1552.4
120°	1567.8	1574.7	1562.7	1567.8	1573.0	1576.4	1569.5	1573.0	1554.1	1538.7	1523.3
122.5°	1588.4	1586.7	1574.7	1574.7	1567.8	1566.1	1552.4	1540.4	1526.7	1506.1	1487.3
125°	1571.2	1578.1	1562.7	1550.7	1535.3	1561.0	1526.7	1514.7	1490.7	1483.9	1447.9
127.5°	1549.0	1562.7	1537.0	1525.0	1509.6	1504.4	1483.9	1466.7	1449.6	1430.7	1406.8
130°	1514.7	1519.8	1495.9	1483.9	1468.4	1453.0	1449.6	1411.9	1399.9	1387.9	1355.3
132.5°	1480.4	1471.9	1447.9	1432.5	1413.6	1405.0	1396.5	1363.9	1346.8	1321.1	1303.9
135°	1413.6	1415.3	1393.0	1375.9	1350.2	1350.2	1334.8	1310.8	1288.5	1266.2	1244.0
137.5°	1350.2	1362.2	1329.6	1314.2	1300.5	1290.2	1269.7	1247.4	1223.4	1214.8	1197.7
140°	1285.1	1286.8	1261.1	1247.4	1237.1	1218.3	1206.3	1185.7	1177.1	1161.7	1137.7
142.5°	1228.6	1221.7	1201.1	1185.7	1175.4	1161.7	1154.9	1134.3	1120.6	1106.9	1098.3
145°	1161.7	1160.0	1136.0	1125.7	1117.2	1112.0	1100.0	1084.6	1077.8	1065.8	1065.8
147.5°	1105.2	1096.6	1082.9	1070.9	1060.6	1055.5	1055.5	1028.1	1033.2	1031.5	1016.1
150°	1045.2	1043.5	1024.6	1019.5	1010.9	1014.4	1010.9	998.9	998.9	992.1	981.8
152.5°	997.2	997.2	981.8	978.4	975.0	973.2	966.4	961.3	961.3	959.5	947.5
155°	957.8	957.8	945.8	944.1	939.0	937.3	933.8	928.7	925.3	921.8	911.6
157.5°	925.3	923.6	909.8	911.6	906.4	906.4	904.7	894.4	897.9	896.1	889.3
160°	894.4	892.7	879.0	884.1	880.7	880.7	880.7	873.9	870.4	870.4	855.0
162.5°	867.0	870.4	856.7	855.0	856.7	856.7	849.9	844.7	849.9	855.0	839.6
165°	843.0	839.6	834.5	832.7	829.3	825.9	829.3	825.9	822.5	829.3	824.2
167.5°	819.0	822.5	812.2	808.8	808.8	815.6	810.5	803.6	807.0	805.3	795.0
170°	798.5	801.9	788.2	788.2	788.2	788.2	783.1	777.9	786.5	789.9	777.9
172.5°	777.9	783.1	771.1	769.3	767.6	771.1	767.6	762.5	772.8	767.6	762.5
175°	755.6	764.2	752.2	750.5	753.9	753.9	750.5	747.1	753.9	750.5	747.1
177.5°	745.4	745.4	733.4	735.1	735.1	733.4	738.5	736.8	738.5	738.5	745.4
180°	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9



TEST NUMBER: P508423

CATALOG NUMBER: ASYX-X-S1-X-U-W-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°	39.4	46.3	49.7	27.4	27.4	30.8	29.1	25.7	22.3	20.6	20.6
95°	296.4	281.0	289.6	260.4	226.2	198.8	197.0	198.8	137.1	102.8	101.1
97.5°	637.4	630.6	577.4	495.2	471.2	472.9	443.8	368.4	308.4	263.9	227.9
100°	829.3	807.0	783.1	800.2	752.2	714.5	661.4	594.6	524.3	464.3	382.1
102.5°	1182.3	1148.0	1060.6	964.7	868.7	834.5	795.0	719.7	646.0	575.7	491.8
105°	1504.4	1446.2	1298.8	1161.7	1031.5	992.1	940.7	856.7	771.1	700.8	608.3
107.5°	1581.5	1538.7	1456.4	1363.9	1250.8	1185.7	1137.7	1046.9	966.4	870.4	764.2
110°	1588.4	1545.5	1494.1	1430.7	1375.9	1338.2	1307.4	1238.8	1180.6	1096.6	988.7
112.5°	1569.5	1530.1	1492.4	1456.4	1413.6	1391.3	1363.9	1339.9	1305.7	1250.8	1149.7
115°	1538.7	1504.4	1470.1	1439.3	1418.7	1408.5	1394.8	1375.9	1357.1	1315.9	1225.1
117.5°	1509.6	1470.1	1439.3	1429.0	1410.2	1394.8	1393.0	1389.6	1377.6	1357.1	1269.7
120°	1480.4	1449.6	1418.7	1396.5	1389.6	1387.9	1387.9	1377.6	1381.0	1363.9	1276.5
122.5°	1434.2	1410.2	1384.5	1374.2	1345.1	1351.9	1355.3	1348.5	1362.2	1350.2	1268.0
125°	1406.8	1382.8	1350.2	1334.8	1329.6	1322.8	1329.6	1317.7	1324.5	1315.9	1252.5
127.5°	1360.5	1329.6	1312.5	1300.5	1297.1	1273.1	1285.1	1286.8	1288.5	1274.8	1218.3
130°	1310.8	1293.7	1254.3	1259.4	1259.4	1250.8	1252.5	1245.7	1242.3	1230.3	1165.2
132.5°	1274.8	1252.5	1226.8	1220.0	1213.1	1211.4	1211.4	1199.4	1199.4	1184.0	1141.2
135°	1211.4	1196.0	1185.7	1178.9	1177.1	1170.3	1170.3	1158.3	1156.6	1142.9	1100.0
137.5°	1166.9	1151.4	1142.9	1137.7	1132.6	1120.6	1127.5	1117.2	1106.9	1103.5	1062.3
140°	1122.3	1110.3	1103.5	1094.9	1093.2	1086.3	1086.3	1074.3	1070.9	1055.5	1014.4
142.5°	1084.6	1077.8	1064.1	1060.6	1048.6	1050.4	1041.8	1043.5	1029.8	1012.7	980.1
145°	1033.2	1034.9	1028.1	1021.2	1019.5	1009.2	1010.9	1000.7	992.1	980.1	954.4
147.5°	1005.8	1005.8	995.5	987.0	980.1	978.4	969.8	971.5	957.8	940.7	923.6
150°	969.8	966.4	956.1	951.0	945.8	945.8	937.3	932.1	921.8	916.7	894.4
152.5°	944.1	935.5	930.4	920.1	920.1	911.6	904.7	901.3	892.7	882.4	865.3
155°	908.1	904.7	897.9	896.1	889.3	882.4	870.4	868.7	863.6	853.3	837.9
157.5°	879.0	884.1	873.9	868.7	858.4	856.7	844.7	846.4	836.2	829.3	815.6
160°	865.3	856.7	846.4	844.7	841.3	827.6	825.9	820.7	813.9	808.8	791.6
162.5°	834.5	832.7	827.6	824.2	812.2	812.2	791.6	800.2	795.0	789.9	781.3
165°	817.3	819.0	807.0	803.6	800.2	793.3	788.2	783.1	777.9	774.5	765.9
167.5°	795.0	791.6	788.2	781.3	783.1	777.9	772.8	769.3	765.9	762.5	755.6
170°	776.2	774.5	771.1	765.9	767.6	762.5	762.5	755.6	753.9	752.2	743.6
172.5°	760.8	760.8	757.3	757.3	755.6	750.5	747.1	743.6	743.6	740.2	738.5
175°	745.4	747.1	745.4	743.6	743.6	740.2	740.2	741.9	738.5	738.5	733.4
177.5°	733.4	733.4	733.4	733.4	733.4	733.4	733.4	731.6	733.4	731.6	726.5
180°	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9



TEST NUMBER: P508423

CATALOG NUMBER: ASYX-X-S1-X-U-W-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°	22.3	24.0	25.7	27.4	32.6	30.8	36.0	37.7	41.1	48.0	49.7
95°	90.8	90.8	89.1	89.1	85.7	85.7	84.0	82.2	90.8	101.1	114.8
97.5°	186.8	159.4	145.6	140.5	138.8	137.1	133.6	128.5	131.9	140.5	157.6
100°	315.3	260.4	215.9	190.2	185.1	176.5	173.1	171.3	171.3	188.5	215.9
102.5°	407.8	327.3	269.0	231.3	221.0	212.5	207.3	207.3	210.8	231.3	262.2
105°	515.8	412.9	323.8	274.2	265.6	253.6	245.0	246.7	250.2	269.0	296.4
107.5°	646.0	522.6	416.4	339.3	320.4	303.3	289.6	289.6	291.3	303.3	323.8
110°	841.3	682.0	522.6	407.8	377.0	358.1	325.6	325.6	323.8	332.4	346.1
112.5°	990.4	805.3	623.7	476.3	433.5	402.7	368.4	358.1	358.1	359.8	368.4
115°	1079.5	887.6	694.0	539.7	483.2	445.5	402.7	390.7	385.5	389.0	385.5
117.5°	1130.9	937.3	753.9	586.0	532.9	490.0	436.9	421.5	412.9	419.8	418.1
120°	1156.6	981.8	801.9	634.0	579.1	529.5	472.9	457.5	450.6	450.6	452.4
122.5°	1160.0	1005.8	829.3	676.8	622.0	574.0	515.8	493.5	486.6	488.3	488.3
125°	1148.0	1002.4	855.0	711.1	658.0	610.0	550.0	531.2	515.8	522.6	524.3
127.5°	1129.2	993.8	870.4	738.5	690.5	647.7	592.9	570.6	556.9	560.3	558.6
130°	1101.8	983.5	884.1	762.5	721.4	678.5	630.6	610.0	591.1	592.9	594.6
132.5°	1074.3	980.1	891.0	781.3	747.1	711.1	663.1	642.5	625.4	627.1	627.1
135°	1045.2	971.5	882.4	793.3	776.2	738.5	699.1	676.8	663.1	663.1	659.7
137.5°	1014.4	951.0	889.3	817.3	793.3	762.5	723.1	705.9	692.2	690.5	688.8
140°	987.0	928.7	880.7	822.5	805.3	781.3	748.8	735.1	716.2	712.8	723.1
142.5°	959.5	918.4	889.3	834.5	817.3	796.8	772.8	753.9	740.2	736.8	735.1
145°	932.1	908.1	875.6	831.0	824.2	803.6	777.9	772.8	757.3	753.9	753.9
147.5°	904.7	884.1	860.2	829.3	829.3	812.2	800.2	784.8	772.8	765.9	765.9
150°	880.7	863.6	851.6	827.6	825.9	812.2	801.9	795.0	781.3	777.9	776.2
152.5°	858.4	843.0	832.7	817.3	815.6	796.8	800.2	793.3	779.6	776.2	776.2
155°	831.0	829.3	817.3	801.9	808.8	798.5	789.9	798.5	777.9	781.3	781.3
157.5°	812.2	810.5	808.8	793.3	795.0	789.9	784.8	791.6	774.5	776.2	776.2
160°	791.6	788.2	788.2	774.5	784.8	774.5	776.2	779.6	769.3	771.1	776.2
162.5°	781.3	774.5	774.5	769.3	772.8	769.3	760.8	772.8	771.1	767.6	769.3
165°	764.2	762.5	765.9	755.6	764.2	753.9	757.3	762.5	759.1	760.8	762.5
167.5°	753.9	752.2	753.9	748.8	753.9	750.5	748.8	755.6	752.2	753.9	755.6
170°	745.4	745.4	747.1	741.9	747.1	741.9	747.1	747.1	745.4	745.4	748.8
172.5°	741.9	736.8	741.9	733.4	741.9	731.6	735.1	740.2	738.5	736.8	736.8
175°	735.1	733.4	738.5	729.9	735.1	729.9	729.9	735.1	733.4	731.6	738.5
177.5°	735.1	729.9	735.1	726.5	731.6	728.2	728.2	733.4	729.9	729.9	735.1
180°	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9



TEST NUMBER: P508423

CATALOG NUMBER: ASYX-X-S1-X-U-W-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°	49.7	58.3	60.0	65.1	63.4	53.1	46.3	37.7	32.6
95°	130.2	143.9	157.6	155.9	161.1	150.8	140.5	135.4	128.5
97.5°	174.8	197.0	210.8	210.8	212.5	205.6	202.2	205.6	197.0
100°	246.7	262.2	267.3	265.6	260.4	248.5	241.6	238.2	233.0
102.5°	289.6	306.7	311.8	308.4	305.0	299.9	293.0	289.6	287.9
105°	318.7	334.1	341.0	339.3	337.6	329.0	315.3	320.4	318.7
107.5°	346.1	356.4	363.3	358.1	356.4	351.3	342.7	347.8	341.0
110°	363.3	371.8	373.5	373.5	370.1	365.0	358.1	359.8	354.7
112.5°	377.0	382.1	382.1	382.1	378.7	371.8	368.4	365.0	365.0
115°	392.4	389.0	390.7	390.7	387.2	377.0	371.8	368.4	365.0
117.5°	419.8	414.7	409.5	409.5	400.9	394.1	389.0	383.8	378.7
120°	445.5	442.1	438.6	433.5	428.4	419.8	411.2	404.4	400.9
122.5°	479.8	471.2	466.1	469.5	459.2	450.6	440.4	433.5	424.9
125°	517.5	510.6	502.0	498.6	490.0	483.2	474.6	467.8	457.5
127.5°	550.0	539.7	536.3	534.6	524.3	515.8	502.0	496.9	496.9
130°	587.7	575.7	577.4	568.9	560.3	546.6	532.9	532.9	531.2
132.5°	623.7	610.0	608.3	604.9	594.6	584.3	575.7	574.0	567.2
135°	652.8	642.5	640.8	637.4	628.8	618.6	604.9	608.3	594.6
137.5°	678.5	673.4	671.7	664.8	656.3	654.5	639.1	637.4	628.8
140°	707.7	697.4	704.2	695.7	685.4	682.0	661.4	664.8	664.8
142.5°	728.2	723.1	721.4	717.9	711.1	704.2	699.1	692.2	695.7
145°	748.8	745.4	741.9	741.9	731.6	728.2	717.9	717.9	712.8
147.5°	765.9	759.1	759.1	755.6	750.5	747.1	736.8	741.9	733.4
150°	765.9	769.3	765.9	765.9	767.6	765.9	757.3	753.9	755.6
152.5°	779.6	774.5	771.1	777.9	769.3	774.5	762.5	765.9	762.5
155°	772.8	776.2	777.9	774.5	774.5	774.5	769.3	777.9	769.3
157.5°	779.6	776.2	777.9	776.2	772.8	777.9	772.8	779.6	774.5
160°	776.2	772.8	776.2	774.5	771.1	777.9	777.9	783.1	776.2
162.5°	764.2	767.6	776.2	771.1	771.1	783.1	764.2	781.3	771.1
165°	760.8	762.5	765.9	769.3	762.5	767.6	767.6	769.3	764.2
167.5°	757.3	750.5	757.3	757.3	759.1	759.1	759.1	762.5	755.6
170°	750.5	736.8	750.5	750.5	747.1	747.1	745.4	755.6	747.1
172.5°	738.5	735.1	740.2	740.2	743.6	741.9	741.9	743.6	738.5
175°	731.6	733.4	740.2	735.1	733.4	735.1	729.9	735.1	729.9
177.5°	728.2	728.2	729.9	731.6	735.1	731.6	726.5	731.6	726.5
180°	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9

(END OF REPORT)