

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: P508425

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

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508425
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-L35-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(1) AF LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

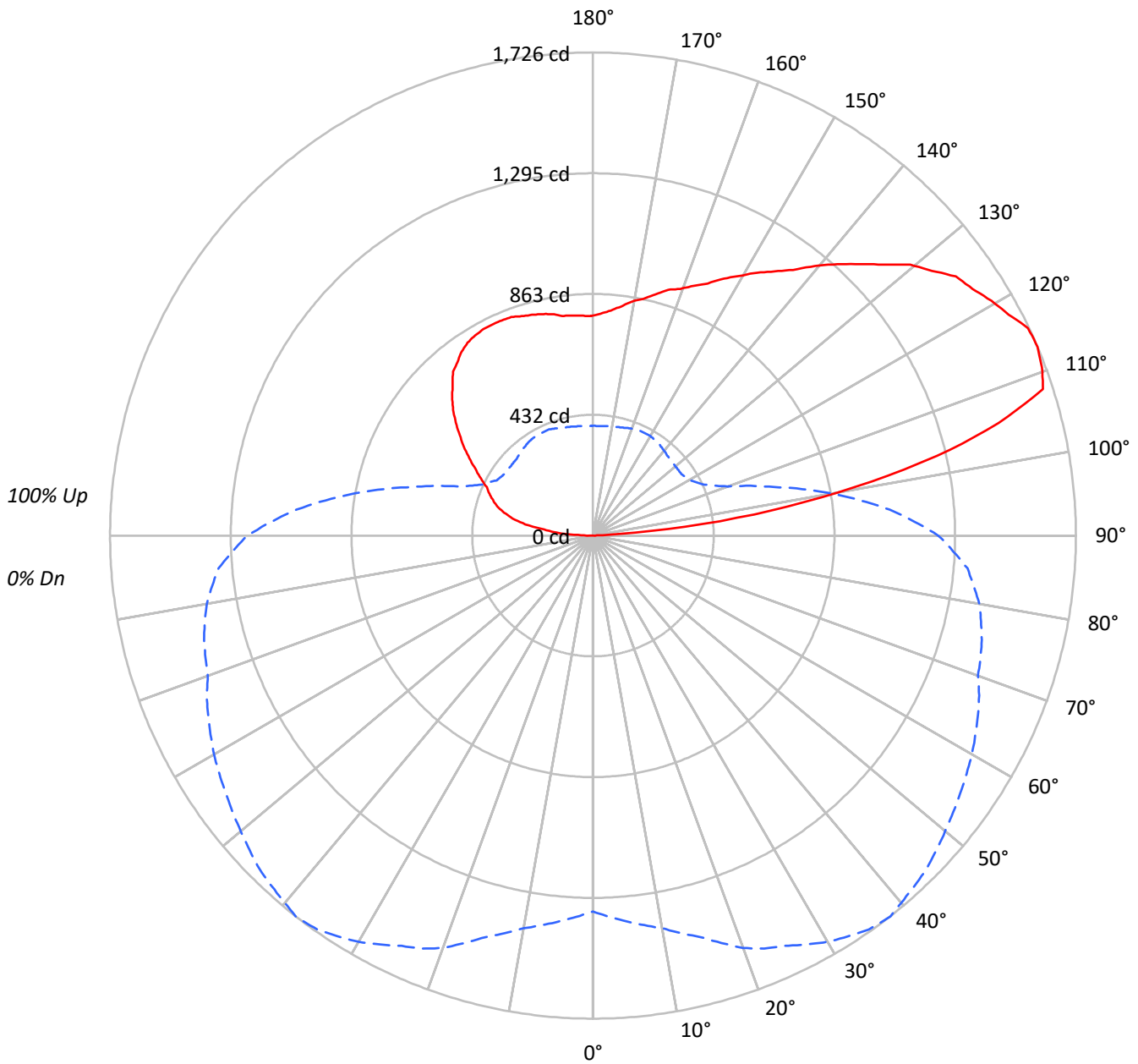
Lumens per Lamp: N/A
Luminaire Lumens: 5189.9 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Indirect

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: P508425
CATALOG NUMBER: ASYX-X-S1-X-U-W-L35-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot



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



TEST NUMBER: P508425

CATALOG NUMBER: ASYX-X-S1-X-U-W-L35-1-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	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°	48166	53649	68173
100°	131412	101758	62061
105°	131653	108679	56943
110°	146658	133679	47963
115°	154682	134062	39936
120°	145011	118067	37080
125°	126680	100985	36887
130°	108974	83829	38214
135°	92449	71941	38884
140°	77580	61236	40136
145°	65586	53881	40241
150°	55812	47763	40350
155°	48875	42751	39255
160°	44018	38960	38199
165°	40362	36671	36587
170°	37494	34919	35081
175°	35077	34044	33885



TEST NUMBER: P508425

CATALOG NUMBER: ASYX-X-S1-X-U-W-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°	212.4	4.1
100°-110°	768.9	14.8
110°-120°	1036.5	20.0
120°-130°	986.5	19.0
130°-140°	821.9	15.8
140°-150°	622.7	12.0
150°-160°	423.7	8.2
160°-170°	240.8	4.6
170°-180°	76.6	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°	2017.8	38.9
90°-150°	4448.8	85.7
90°-180°	5190.0	100.0
0°-180°	5189.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	98	318	109	109	138	173
105°	791	1616	653	289	342	858
115°	1518	1653	1316	418	392	1464
125°	1688	1511	1345	561	491	1506
135°	1518	1301	1182	712	639	1176
145°	1248	1110	1025	810	766	789
155°	1029	975	900	839	826	481
165°	906	878	823	817	821	258
175°	812	801	788	786	784	79
180°	784	784	784	784	784	



TEST NUMBER: P508425

CATALOG NUMBER: ASYX-X-S1-X-U-W-L35-1-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°	14.7	14.7	14.7	16.6	18.4	20.2	20.2	25.8	33.1	35.0	40.5
95°	97.5	112.3	167.5	193.2	195.1	200.6	200.6	254.0	316.5	331.3	346.0
97.5°	261.3	279.7	338.6	384.6	450.9	469.3	491.4	535.6	603.6	644.1	664.4
100°	530.0	533.7	565.0	607.3	679.1	719.6	769.3	890.7	951.5	951.5	929.4
102.5°	671.7	675.4	703.0	743.5	828.2	888.9	946.0	1093.2	1216.5	1262.5	1280.9
105°	791.4	804.2	833.7	890.7	993.8	1061.9	1115.3	1282.7	1426.3	1505.4	1566.2
107.5°	944.1	964.4	1014.1	1080.3	1203.6	1282.7	1350.8	1487.0	1612.2	1691.3	1689.5
110°	1165.0	1176.0	1227.5	1314.0	1420.8	1483.3	1525.7	1621.4	1706.0	1713.4	1717.1
112.5°	1343.5	1384.0	1424.5	1485.2	1568.0	1597.5	1617.7	1676.6	1718.9	1726.3	1713.4
115°	1518.3	1533.0	1553.3	1593.8	1632.4	1661.9	1665.5	1696.8	1706.0	1722.6	1693.2
117.5°	1626.9	1634.3	1636.1	1650.8	1671.1	1687.6	1684.0	1693.2	1704.2	1682.1	1667.4
120°	1684.0	1691.3	1678.4	1684.0	1689.5	1693.2	1685.8	1689.5	1669.2	1652.7	1636.1
122.5°	1706.0	1704.2	1691.3	1691.3	1684.0	1682.1	1667.4	1654.5	1639.8	1617.7	1597.5
125°	1687.6	1695.0	1678.4	1665.5	1649.0	1676.6	1639.8	1626.9	1601.1	1593.8	1555.1
127.5°	1663.7	1678.4	1650.8	1637.9	1621.4	1615.9	1593.8	1575.4	1557.0	1536.7	1511.0
130°	1626.9	1632.4	1606.7	1593.8	1577.2	1560.6	1557.0	1516.5	1503.6	1490.7	1455.7
132.5°	1590.1	1580.9	1555.1	1538.6	1518.3	1509.1	1499.9	1464.9	1446.5	1418.9	1400.5
135°	1518.3	1520.2	1496.2	1477.8	1450.2	1450.2	1433.7	1407.9	1384.0	1360.0	1336.1
137.5°	1450.2	1463.1	1428.1	1411.6	1396.9	1385.8	1363.7	1339.8	1314.0	1304.8	1286.4
140°	1380.3	1382.1	1354.5	1339.8	1328.8	1308.5	1295.6	1273.5	1264.3	1247.8	1222.0
142.5°	1319.6	1312.2	1290.1	1273.5	1262.5	1247.8	1240.4	1218.3	1203.6	1188.9	1179.7
145°	1247.8	1245.9	1220.2	1209.1	1199.9	1194.4	1181.5	1165.0	1157.6	1144.7	1144.7
147.5°	1187.0	1177.8	1163.1	1150.2	1139.2	1133.7	1133.7	1104.2	1109.8	1107.9	1091.3
150°	1122.6	1120.8	1100.5	1095.0	1085.8	1089.5	1085.8	1072.9	1072.9	1065.6	1054.5
152.5°	1071.1	1071.1	1054.5	1050.9	1047.2	1045.3	1038.0	1032.5	1032.5	1030.6	1017.7
155°	1028.8	1028.8	1015.9	1014.1	1008.5	1006.7	1003.0	997.5	993.8	990.1	979.1
157.5°	993.8	992.0	977.2	979.1	973.6	973.6	971.7	960.7	964.4	962.5	955.2
160°	960.7	958.8	944.1	949.6	946.0	946.0	946.0	938.6	934.9	934.9	918.4
162.5°	931.2	934.9	920.2	918.4	920.2	920.2	912.8	907.3	912.8	918.4	901.8
165°	905.5	901.8	896.3	894.4	890.7	887.1	890.7	887.1	883.4	890.7	885.2
167.5°	879.7	883.4	872.3	868.7	868.7	876.0	870.5	863.1	866.8	865.0	853.9
170°	857.6	861.3	846.6	846.6	846.6	846.6	841.1	835.5	844.7	848.4	835.5
172.5°	835.5	841.1	828.2	826.3	824.5	828.2	824.5	819.0	830.0	824.5	819.0
175°	811.6	820.8	807.9	806.1	809.8	809.8	806.1	802.4	809.8	806.1	802.4
177.5°	800.6	800.6	787.7	789.5	789.5	787.7	793.2	791.4	793.2	793.2	800.6
180°	784.0	784.0	784.0	784.0	784.0	784.0	784.0	784.0	784.0	784.0	784.0



TEST NUMBER: P508425

CATALOG NUMBER: ASYX-X-S1-X-U-W-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°	42.3	49.7	53.4	29.4	29.4	33.1	31.3	27.6	23.9	22.1	22.1
95°	318.4	301.8	311.0	279.7	242.9	213.5	211.6	213.5	147.2	110.4	108.6
97.5°	684.6	677.3	620.2	531.9	506.1	507.9	476.7	395.7	331.3	283.4	244.8
100°	890.7	866.8	841.1	859.5	807.9	767.4	710.4	638.6	563.2	498.7	410.4
102.5°	1269.9	1233.1	1139.2	1036.1	933.1	896.3	853.9	773.0	693.8	618.4	528.2
105°	1615.9	1553.3	1395.0	1247.8	1107.9	1065.6	1010.4	920.2	828.2	752.7	653.3
107.5°	1698.7	1652.7	1564.3	1464.9	1343.5	1273.5	1222.0	1124.5	1038.0	934.9	820.8
110°	1706.0	1660.0	1604.8	1536.7	1477.8	1437.3	1404.2	1330.6	1268.0	1177.8	1061.9
112.5°	1685.8	1643.5	1603.0	1564.3	1518.3	1494.4	1464.9	1439.2	1402.4	1343.5	1234.9
115°	1652.7	1615.9	1579.0	1545.9	1523.8	1512.8	1498.1	1477.8	1457.6	1413.4	1315.9
117.5°	1621.4	1579.0	1545.9	1534.9	1514.6	1498.1	1496.2	1492.6	1479.7	1457.6	1363.7
120°	1590.1	1557.0	1523.8	1499.9	1492.6	1490.7	1490.7	1479.7	1483.3	1464.9	1371.1
122.5°	1540.4	1514.6	1487.0	1476.0	1444.7	1452.1	1455.7	1448.4	1463.1	1450.2	1361.9
125°	1511.0	1485.2	1450.2	1433.7	1428.1	1420.8	1428.1	1415.3	1422.6	1413.4	1345.3
127.5°	1461.3	1428.1	1409.7	1396.9	1393.2	1367.4	1380.3	1382.1	1384.0	1369.2	1308.5
130°	1407.9	1389.5	1347.2	1352.7	1352.7	1343.5	1345.3	1338.0	1334.3	1321.4	1251.5
132.5°	1369.2	1345.3	1317.7	1310.4	1303.0	1301.2	1301.2	1288.3	1288.3	1271.7	1225.7
135°	1301.2	1284.6	1273.5	1266.2	1264.3	1257.0	1257.0	1244.1	1242.3	1227.5	1181.5
137.5°	1253.3	1236.7	1227.5	1222.0	1216.5	1203.6	1211.0	1199.9	1188.9	1185.2	1141.0
140°	1205.5	1192.6	1185.2	1176.0	1174.2	1166.8	1166.8	1153.9	1150.2	1133.7	1089.5
142.5°	1165.0	1157.6	1142.9	1139.2	1126.3	1128.2	1119.0	1120.8	1106.1	1087.7	1052.7
145°	1109.8	1111.6	1104.2	1096.9	1095.0	1084.0	1085.8	1074.8	1065.6	1052.7	1025.1
147.5°	1080.3	1080.3	1069.3	1060.1	1052.7	1050.9	1041.7	1043.5	1028.8	1010.4	992.0
150°	1041.7	1038.0	1026.9	1021.4	1015.9	1015.9	1006.7	1001.2	990.1	984.6	960.7
152.5°	1014.1	1004.8	999.3	988.3	988.3	979.1	971.7	968.0	958.8	947.8	929.4
155°	975.4	971.7	964.4	962.5	955.2	947.8	934.9	933.1	927.6	916.5	899.9
157.5°	944.1	949.6	938.6	933.1	922.0	920.2	907.3	909.1	898.1	890.7	876.0
160°	929.4	920.2	909.1	907.3	903.6	888.9	887.1	881.5	874.2	868.7	850.3
162.5°	896.3	894.4	888.9	885.2	872.3	872.3	850.3	859.5	853.9	848.4	839.2
165°	877.9	879.7	866.8	863.1	859.5	852.1	846.6	841.1	835.5	831.9	822.7
167.5°	853.9	850.3	846.6	839.2	841.1	835.5	830.0	826.3	822.7	819.0	811.6
170°	833.7	831.9	828.2	822.7	824.5	819.0	819.0	811.6	809.8	807.9	798.7
172.5°	817.1	817.1	813.4	813.4	811.6	806.1	802.4	798.7	798.7	795.0	793.2
175°	800.6	802.4	800.6	798.7	798.7	795.0	795.0	796.9	793.2	793.2	787.7
177.5°	787.7	787.7	787.7	787.7	787.7	787.7	787.7	785.8	787.7	785.8	780.3
180°	784.0	784.0	784.0	784.0	784.0	784.0	784.0	784.0	784.0	784.0	784.0



TEST NUMBER: P508425

CATALOG NUMBER: ASYX-X-S1-X-U-W-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°	23.9	25.8	27.6	29.4	35.0	33.1	38.6	40.5	44.2	51.5	53.4
95°	97.5	97.5	95.7	95.7	92.0	92.0	90.2	88.3	97.5	108.6	123.3
97.5°	200.6	171.2	156.4	150.9	149.1	147.2	143.5	138.0	141.7	150.9	169.3
100°	338.6	279.7	231.9	204.3	198.8	189.6	185.9	184.0	184.0	202.4	231.9
102.5°	438.0	351.5	288.9	248.5	237.4	228.2	222.7	222.7	226.4	248.5	281.6
105°	554.0	443.5	347.8	294.5	285.3	272.4	263.2	265.0	268.7	288.9	318.4
107.5°	693.8	561.3	447.2	364.4	344.2	325.7	311.0	311.0	312.9	325.7	347.8
110°	903.6	732.5	561.3	438.0	404.9	384.6	349.7	349.7	347.8	357.0	371.8
112.5°	1063.7	865.0	669.9	511.6	465.6	432.5	395.7	384.6	384.6	386.5	395.7
115°	1159.4	953.3	745.4	579.7	519.0	478.5	432.5	419.6	414.1	417.8	414.1
117.5°	1214.7	1006.7	809.8	629.4	572.4	526.3	469.3	452.7	443.5	450.9	449.1
120°	1242.3	1054.5	861.3	680.9	622.0	568.7	507.9	491.4	484.0	484.0	485.9
122.5°	1245.9	1080.3	890.7	727.0	668.1	616.5	554.0	530.0	522.7	524.5	524.5
125°	1233.1	1076.6	918.4	763.8	706.7	655.2	590.8	570.5	554.0	561.3	563.2
127.5°	1212.8	1067.4	934.9	793.2	741.7	695.7	636.8	612.8	598.1	601.8	600.0
130°	1183.4	1056.4	949.6	819.0	774.8	728.8	677.3	655.2	634.9	636.8	638.6
132.5°	1153.9	1052.7	957.0	839.2	802.4	763.8	712.2	690.1	671.7	673.6	673.6
135°	1122.6	1043.5	947.8	852.1	833.7	793.2	750.9	727.0	712.2	712.2	708.5
137.5°	1089.5	1021.4	955.2	877.9	852.1	819.0	776.6	758.2	743.5	741.7	739.8
140°	1060.1	997.5	946.0	883.4	865.0	839.2	804.2	789.5	769.3	765.6	776.6
142.5°	1030.6	986.4	955.2	896.3	877.9	855.8	830.0	809.8	795.0	791.4	789.5
145°	1001.2	975.4	940.4	892.6	885.2	863.1	835.5	830.0	813.4	809.8	809.8
147.5°	971.7	949.6	923.9	890.7	890.7	872.3	859.5	842.9	830.0	822.7	822.7
150°	946.0	927.6	914.7	888.9	887.1	872.3	861.3	853.9	839.2	835.5	833.7
152.5°	922.0	905.5	894.4	877.9	876.0	855.8	859.5	852.1	837.4	833.7	833.7
155°	892.6	890.7	877.9	861.3	868.7	857.6	848.4	857.6	835.5	839.2	839.2
157.5°	872.3	870.5	868.7	852.1	853.9	848.4	842.9	850.3	831.9	833.7	833.7
160°	850.3	846.6	846.6	831.9	842.9	831.9	833.7	837.4	826.3	828.2	833.7
162.5°	839.2	831.9	831.9	826.3	830.0	826.3	817.1	830.0	828.2	824.5	826.3
165°	820.8	819.0	822.7	811.6	820.8	809.8	813.4	819.0	815.3	817.1	819.0
167.5°	809.8	807.9	809.8	804.2	809.8	806.1	804.2	811.6	807.9	809.8	811.6
170°	800.6	800.6	802.4	796.9	802.4	796.9	802.4	802.4	800.6	800.6	804.2
172.5°	796.9	791.4	796.9	787.7	796.9	785.8	789.5	795.0	793.2	791.4	791.4
175°	789.5	787.7	793.2	784.0	789.5	784.0	784.0	789.5	787.7	785.8	793.2
177.5°	789.5	784.0	789.5	780.3	785.8	782.2	782.2	787.7	784.0	784.0	789.5
180°	784.0	784.0	784.0	784.0	784.0	784.0	784.0	784.0	784.0	784.0	784.0



TEST NUMBER: P508425

CATALOG NUMBER: ASYX-X-S1-X-U-W-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°	53.4	62.6	64.4	69.9	68.1	57.1	49.7	40.5	35.0
95°	139.9	154.6	169.3	167.5	173.0	162.0	150.9	145.4	138.0
97.5°	187.7	211.6	226.4	226.4	228.2	220.8	217.2	220.8	211.6
100°	265.0	281.6	287.1	285.3	279.7	266.9	259.5	255.8	250.3
102.5°	311.0	329.4	334.9	331.3	327.6	322.1	314.7	311.0	309.2
105°	342.3	358.9	366.2	364.4	362.6	353.4	338.6	344.2	342.3
107.5°	371.8	382.8	390.2	384.6	382.8	377.3	368.1	373.6	366.2
110°	390.2	399.4	401.2	401.2	397.5	392.0	384.6	386.5	381.0
112.5°	404.9	410.4	410.4	410.4	406.7	399.4	395.7	392.0	392.0
115°	421.4	417.8	419.6	419.6	415.9	404.9	399.4	395.7	392.0
117.5°	450.9	445.4	439.9	439.9	430.6	423.3	417.8	412.2	406.7
120°	478.5	474.8	471.1	465.6	460.1	450.9	441.7	434.3	430.6
122.5°	515.3	506.1	500.6	504.3	493.2	484.0	473.0	465.6	456.4
125°	555.8	548.4	539.2	535.6	526.3	519.0	509.8	502.4	491.4
127.5°	590.8	579.7	576.0	574.2	563.2	554.0	539.2	533.7	533.7
130°	631.3	618.4	620.2	611.0	601.8	587.1	572.4	572.4	570.5
132.5°	669.9	655.2	653.3	649.7	638.6	627.6	618.4	616.5	609.2
135°	701.2	690.1	688.3	684.6	675.4	664.4	649.7	653.3	638.6
137.5°	728.8	723.3	721.4	714.1	704.9	703.0	686.5	684.6	675.4
140°	760.1	749.0	756.4	747.2	736.2	732.5	710.4	714.1	714.1
142.5°	782.2	776.6	774.8	771.1	763.8	756.4	750.9	743.5	747.2
145°	804.2	800.6	796.9	796.9	785.8	782.2	771.1	771.1	765.6
147.5°	822.7	815.3	815.3	811.6	806.1	802.4	791.4	796.9	787.7
150°	822.7	826.3	822.7	822.7	824.5	822.7	813.4	809.8	811.6
152.5°	837.4	831.9	828.2	835.5	826.3	831.9	819.0	822.7	819.0
155°	830.0	833.7	835.5	831.9	831.9	831.9	826.3	835.5	826.3
157.5°	837.4	833.7	835.5	833.7	830.0	835.5	830.0	837.4	831.9
160°	833.7	830.0	833.7	831.9	828.2	835.5	835.5	841.1	833.7
162.5°	820.8	824.5	833.7	828.2	828.2	841.1	820.8	839.2	828.2
165°	817.1	819.0	822.7	826.3	819.0	824.5	824.5	826.3	820.8
167.5°	813.4	806.1	813.4	813.4	815.3	815.3	815.3	819.0	811.6
170°	806.1	791.4	806.1	806.1	802.4	802.4	800.6	811.6	802.4
172.5°	793.2	789.5	795.0	795.0	798.7	796.9	796.9	798.7	793.2
175°	785.8	787.7	795.0	789.5	787.7	789.5	784.0	789.5	784.0
177.5°	782.2	782.2	784.0	785.8	789.5	785.8	780.3	785.8	780.3
180°	784.0	784.0	784.0	784.0	784.0	784.0	784.0	784.0	784.0

(END OF REPORT)