

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: P508416

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

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508416
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-L30-1-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

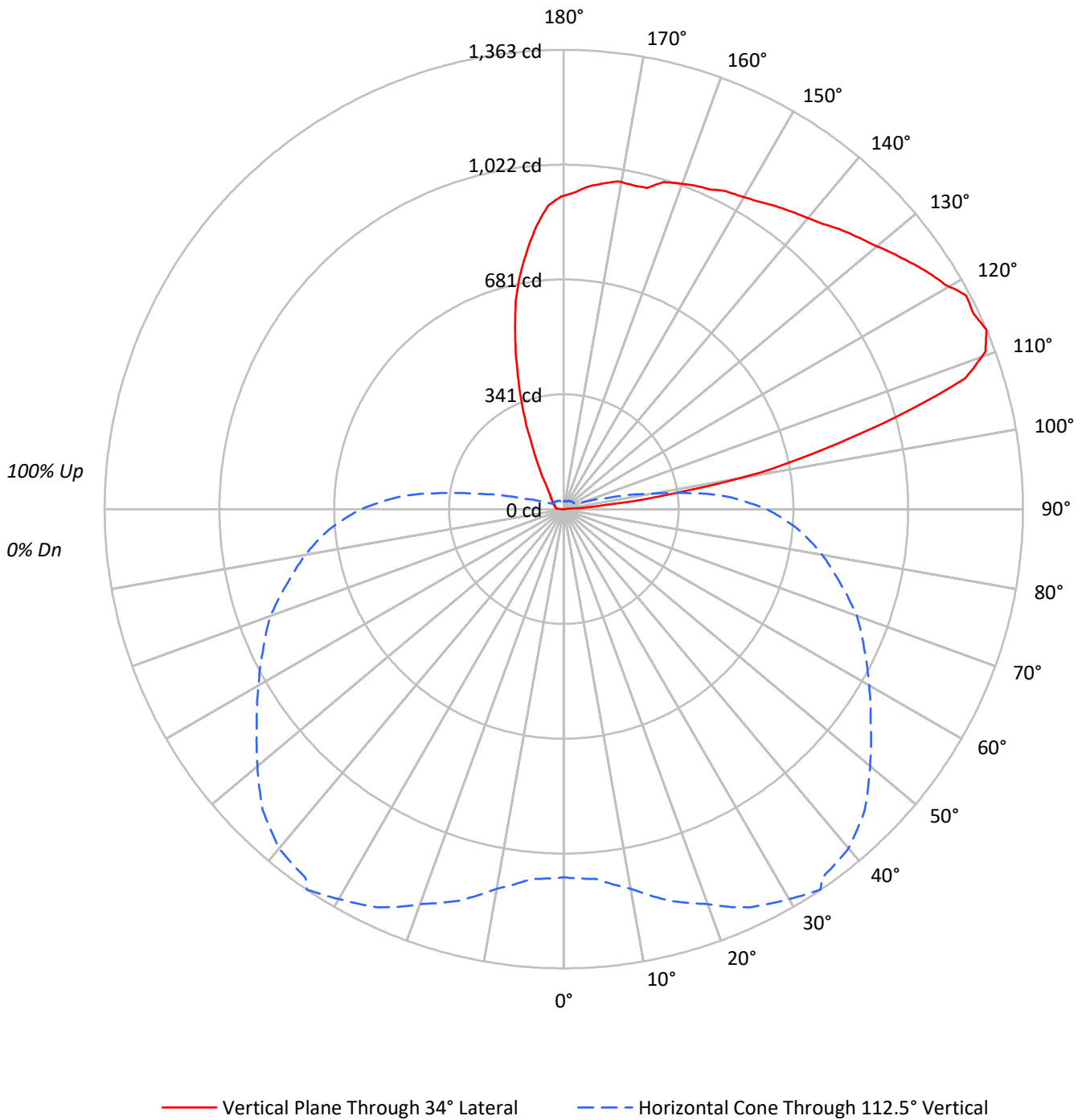
Lumens per Lamp: N/A
Luminaire Lumens: 3194.4 lumens
Efficiency: N/A
Efficacy: 57.0 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Indirect

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: P508416
CATALOG NUMBER: ASYX-X-S1-X-U-HSS-L30-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot





TEST NUMBER: P508416

CATALOG NUMBER: ASYX-X-S1-X-U-HSS-L30-1-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	50	30	10	0
RCR																					
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	8	8	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	7	7	7	0
3	72	63	57	51	61	54	49	44	37	34	31	21	20	18	7	6	6	6	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	5	5	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	4	4	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	4	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	3	3	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	3	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	3	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	2	2	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
95°	889	10522	12301
100°	35680	21596	6620
105°	109378	34286	4142
110°	125496	58827	2908
115°	114409	68788	2537
120°	97926	66564	2446
125°	82302	63888	2537
130°	74270	59869	2740
135°	65785	55830	2923
140°	60820	51034	3294
145°	55662	47258	3737
150°	52739	43731	5210
155°	49554	41616	7934
160°	47303	40545	12536
165°	45306	40077	19724
170°	43737	40008	28978
175°	42010	39935	35635



TEST NUMBER: P508416

CATALOG NUMBER: ASYX-X-S1-X-U-HSS-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°	62.1	1.9
100°-110°	389.3	12.2
110°-120°	601.8	18.8
120°-130°	580.8	18.2
130°-140°	504.4	15.8
140°-150°	415.7	13.0
150°-160°	327.6	10.3
160°-170°	227.3	7.1
170°-180°	85.4	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°	1053.2	33.0
90°-150°	2554.1	80.0
90°-180°	3194.0	100.0
0°-180°	3194.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	2	16	21	20	25	30
105°	658	1056	206	27	25	645
115°	1123	1281	675	34	25	1092
125°	1096	1249	851	44	34	1003
135°	1080	1146	917	62	48	840
145°	1059	1072	899	126	71	671
155°	1043	1029	876	309	167	481
165°	1016	988	899	611	442	289
175°	972	954	924	864	824	93
180°	928	928	928	928	928	



TEST NUMBER: P508416

CATALOG NUMBER: ASYX-X-S1-X-U-HSS-L30-1-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	1.8	1.8	5.3	3.6	3.6	5.3	7.1	8.9	3.6
95°	1.8	1.8	3.6	46.2	138.6	152.8	145.7	140.4	122.6	106.6	26.7
97.5°	37.3	44.4	71.1	190.1	385.6	444.2	472.7	387.4	318.1	295.0	158.1
100°	143.9	167.0	231.0	437.1	652.1	666.3	661.0	643.2	591.7	558.0	428.2
102.5°	383.8	399.8	488.7	671.7	789.0	813.8	813.8	797.8	792.5	781.8	741.0
105°	657.5	675.2	746.3	840.5	911.6	938.2	952.4	988.0	1023.5	1028.8	1067.9
107.5°	840.5	858.3	913.3	984.4	1076.8	1110.6	1151.4	1208.3	1252.7	1247.4	1238.5
110°	996.9	1016.4	1067.9	1139.0	1206.5	1247.4	1286.5	1311.4	1336.2	1311.4	1298.9
112.5°	1092.8	1101.7	1144.3	1203.0	1247.4	1277.6	1304.3	1336.2	1362.9	1336.2	1314.9
115°	1123.0	1128.3	1165.7	1206.5	1254.5	1282.9	1302.5	1336.2	1346.9	1341.6	1323.8
117.5°	1121.2	1144.3	1176.3	1204.8	1251.0	1274.1	1293.6	1320.3	1352.2	1338.0	1320.3
120°	1137.2	1139.0	1172.8	1206.5	1240.3	1259.8	1259.8	1298.9	1313.1	1309.6	1306.0
122.5°	1131.9	1137.2	1165.7	1187.0	1222.5	1238.5	1254.5	1274.1	1290.0	1284.7	1284.7
125°	1096.4	1130.1	1146.1	1171.0	1204.8	1215.4	1231.4	1247.4	1261.6	1256.3	1254.5
127.5°	1117.7	1119.5	1133.7	1160.3	1181.7	1188.8	1206.5	1220.7	1235.0	1233.2	1236.7
130°	1108.8	1103.5	1137.2	1147.9	1163.9	1176.3	1185.2	1197.6	1208.3	1208.3	1211.9
132.5°	1101.7	1101.7	1112.4	1133.7	1147.9	1156.8	1171.0	1174.5	1187.0	1190.5	1183.4
135°	1080.4	1094.6	1110.6	1117.7	1133.7	1140.8	1147.9	1155.0	1165.7	1169.2	1156.8
137.5°	1059.0	1080.4	1101.7	1112.4	1124.8	1124.8	1124.8	1135.5	1140.8	1146.1	1133.7
140°	1082.1	1080.4	1099.9	1098.1	1105.2	1103.5	1115.9	1117.7	1124.8	1121.2	1114.1
142.5°	1076.8	1076.8	1082.1	1089.3	1087.5	1091.0	1099.9	1108.8	1108.8	1112.4	1099.9
145°	1059.0	1064.4	1073.3	1080.4	1080.4	1078.6	1089.3	1091.0	1094.6	1092.8	1085.7
147.5°	1066.2	1066.2	1066.2	1075.0	1075.0	1075.0	1076.8	1078.6	1078.6	1080.4	1075.0
150°	1060.8	1062.6	1066.2	1062.6	1071.5	1057.3	1066.2	1066.2	1066.2	1067.9	1064.4
152.5°	1025.3	1050.2	1059.0	1057.3	1050.2	1053.7	1055.5	1062.6	1059.0	1062.6	1051.9
155°	1043.1	1041.3	1043.1	1044.8	1039.5	1043.1	1044.8	1044.8	1043.1	1044.8	1035.9
157.5°	1037.7	1035.9	1044.8	1034.2	1039.5	1043.1	1035.9	1041.3	1035.9	1043.1	1039.5
160°	1032.4	1028.8	1035.9	1028.8	1035.9	1027.1	1021.7	1030.6	1025.3	1037.7	1020.0
162.5°	1025.3	1023.5	1030.6	1021.7	1014.6	1011.1	1016.4	1018.2	1014.6	1018.2	1009.3
165°	1016.4	1016.4	1016.4	1007.5	1012.8	1012.8	1005.7	1007.5	984.4	1009.3	998.6
167.5°	1009.3	1016.4	1007.5	998.6	1009.3	1009.3	996.9	998.6	982.6	995.1	989.7
170°	1000.4	993.3	995.1	995.1	1004.0	988.0	979.1	995.1	986.2	995.1	986.2
172.5°	979.1	986.2	986.2	982.6	977.3	977.3	975.5	979.1	973.8	975.5	970.2
175°	972.0	972.0	975.5	980.9	970.2	968.4	957.8	966.6	961.3	964.9	959.5
177.5°	945.3	959.5	957.8	945.3	952.4	941.8	947.1	950.7	940.0	948.9	940.0
180°	927.6	927.6	927.6	927.6	927.6	927.6	927.6	927.6	927.6	927.6	927.6



TEST NUMBER: P508416

CATALOG NUMBER: ASYX-X-S1-X-U-HSS-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°	3.6	3.6	3.6	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
95°	16.0	21.3	51.5	42.6	32.0	30.2	33.8	30.2	26.7	23.1	21.3
97.5°	127.9	143.9	151.0	133.3	131.5	120.8	108.4	81.7	74.6	65.7	51.5
100°	350.1	311.0	291.4	259.4	209.7	190.1	174.1	143.9	117.3	103.1	87.1
102.5°	669.9	597.0	502.9	403.4	328.7	300.3	268.3	223.9	188.4	156.4	129.7
105°	1055.5	916.9	733.9	600.6	501.1	438.9	410.5	339.4	280.8	245.2	206.1
107.5°	1183.4	1094.6	980.9	842.3	725.0	668.1	605.9	511.8	437.1	371.4	312.7
110°	1236.7	1160.3	1075.0	993.3	913.3	861.8	819.2	723.2	630.8	549.1	467.3
112.5°	1263.4	1187.0	1112.4	1046.6	984.4	956.0	925.8	849.4	778.3	700.1	602.4
115°	1281.2	1220.7	1155.0	1085.7	1037.7	1007.5	980.9	911.6	845.8	774.7	675.2
117.5°	1290.0	1229.6	1181.7	1124.8	1075.0	1050.2	1021.7	959.5	893.8	828.0	728.5
120°	1279.4	1238.5	1199.4	1151.4	1103.5	1078.6	1055.5	993.3	932.9	870.7	773.0
122.5°	1265.2	1242.1	1211.9	1163.9	1128.3	1107.0	1087.5	1025.3	972.0	900.9	812.1
125°	1249.2	1226.1	1194.1	1163.9	1135.5	1119.5	1105.2	1050.2	995.1	934.7	851.1
127.5°	1224.3	1203.0	1178.1	1153.2	1131.9	1115.9	1110.6	1062.6	1011.1	957.8	872.5
130°	1197.6	1179.9	1158.6	1133.7	1119.5	1101.7	1103.5	1060.8	1020.0	970.2	893.8
132.5°	1162.1	1149.7	1144.3	1117.7	1103.5	1094.6	1082.1	1053.7	1020.0	980.9	908.0
135°	1146.1	1133.7	1124.8	1101.7	1080.4	1076.8	1059.0	1043.1	1014.6	986.2	916.9
137.5°	1117.7	1110.6	1105.2	1080.4	1059.0	1059.0	1053.7	1032.4	1007.5	968.4	909.8
140°	1105.2	1096.4	1082.1	1062.6	1050.2	1039.5	1034.2	1016.4	986.2	956.0	908.0
142.5°	1083.9	1076.8	1073.3	1055.5	1035.9	1025.3	1014.6	995.1	973.8	952.4	900.9
145°	1071.5	1069.7	1066.2	1048.4	1018.2	1012.8	1009.3	988.0	968.4	934.7	899.1
147.5°	1055.5	1057.3	1053.7	1032.4	1012.8	1000.4	991.5	972.0	957.8	929.3	884.9
150°	1044.8	1046.6	1043.1	1016.4	995.1	989.7	986.2	966.6	940.0	916.9	879.6
152.5°	1039.5	1034.2	1025.3	1014.6	991.5	979.1	975.5	954.2	940.0	911.6	876.0
155°	1028.8	1021.7	1016.4	998.6	984.4	972.0	963.1	950.7	934.7	906.2	876.0
157.5°	1018.2	1011.1	1007.5	1004.0	984.4	966.6	964.9	950.7	925.8	904.5	879.6
160°	1007.5	989.7	1004.0	982.6	977.3	963.1	952.4	943.5	925.8	906.2	884.9
162.5°	996.9	991.5	989.7	977.3	966.6	957.8	941.8	947.1	925.8	908.0	892.0
165°	988.0	982.6	980.9	977.3	961.3	954.2	950.7	940.0	931.1	913.3	899.1
167.5°	979.1	970.2	973.8	970.2	950.7	956.0	947.1	940.0	934.7	920.4	906.2
170°	977.3	959.5	968.4	966.6	952.4	950.7	940.0	938.2	932.9	922.2	915.1
172.5°	968.4	956.0	961.3	956.0	948.9	943.5	943.5	945.3	936.4	929.3	920.4
175°	954.2	947.1	948.9	954.2	943.5	940.0	931.1	938.2	940.0	927.6	924.0
177.5°	938.2	945.3	940.0	947.1	938.2	936.4	931.1	936.4	936.4	925.8	925.8
180°	927.6	927.6	927.6	927.6	927.6	927.6	927.6	927.6	927.6	927.6	927.6



TEST NUMBER: P508416

CATALOG NUMBER: ASYX-X-S1-X-U-HSS-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°	5.3	7.1	7.1	8.9	10.7	10.7	12.4	12.4	14.2	16.0	17.8
95°	10.7	8.9	10.7	12.4	12.4	14.2	16.0	16.0	17.8	19.5	19.5
97.5°	21.3	14.2	14.2	14.2	16.0	16.0	17.8	19.5	21.3	21.3	21.3
100°	40.9	23.1	23.1	17.8	17.8	19.5	19.5	21.3	23.1	23.1	23.1
102.5°	71.1	42.6	33.8	23.1	21.3	21.3	23.1	23.1	24.9	24.9	24.9
105°	133.3	85.3	48.0	28.4	26.7	24.9	24.9	24.9	26.7	26.7	26.7
107.5°	234.6	136.8	67.5	37.3	32.0	28.4	28.4	28.4	28.4	28.4	28.4
110°	357.2	200.8	92.4	48.0	39.1	33.8	32.0	32.0	30.2	30.2	30.2
112.5°	469.1	263.0	117.3	58.6	46.2	39.1	35.5	33.8	33.8	32.0	30.2
115°	540.2	309.2	142.2	67.5	53.3	44.4	37.3	37.3	35.5	33.8	32.0
117.5°	591.7	357.2	172.4	81.7	62.2	51.5	40.9	39.1	37.3	37.3	35.5
120°	641.5	406.9	204.3	97.7	74.6	58.6	46.2	42.6	40.9	39.1	37.3
122.5°	689.4	454.9	239.9	117.3	87.1	69.3	51.5	46.2	44.4	40.9	40.9
125°	726.8	504.6	280.8	142.2	104.8	81.7	58.6	49.8	46.2	44.4	42.6
127.5°	767.6	554.4	323.4	168.8	124.4	97.7	67.5	55.1	51.5	48.0	46.2
130°	797.8	602.4	369.6	204.3	152.8	117.3	80.0	62.2	55.1	51.5	49.8
132.5°	820.9	643.2	415.8	243.4	186.6	142.2	96.0	74.6	62.2	56.9	53.3
135°	828.0	678.8	463.8	286.1	222.1	174.1	117.3	88.8	71.1	62.2	58.6
137.5°	835.2	707.2	510.0	334.1	268.3	213.2	142.2	106.6	85.3	72.9	64.0
140°	831.6	728.5	554.4	387.4	316.3	255.9	175.9	129.7	103.1	87.1	74.6
142.5°	829.8	746.3	600.6	437.1	366.0	305.6	216.8	159.9	126.2	103.1	88.8
145°	833.4	758.7	634.4	490.4	424.7	362.5	266.5	195.5	154.6	126.2	110.2
147.5°	820.9	765.9	675.2	536.6	476.2	415.8	319.8	243.4	193.7	158.1	135.0
150°	831.6	769.4	693.0	582.8	526.0	470.9	378.5	298.5	241.7	199.0	170.6
152.5°	829.8	773.0	712.5	623.7	575.7	524.2	431.8	353.6	293.2	248.8	215.0
155°	838.7	774.7	732.1	664.6	621.9	575.7	492.2	417.6	353.6	309.2	270.1
157.5°	845.8	797.8	755.2	701.9	664.6	625.5	554.4	485.1	424.7	378.5	330.5
160°	856.5	810.3	773.0	732.1	707.2	666.3	614.8	559.7	501.1	451.3	412.2
162.5°	861.8	829.8	797.8	757.0	741.0	712.5	669.9	629.0	579.3	533.1	495.8
165°	872.5	840.5	819.2	785.4	769.4	744.5	717.9	680.6	650.4	611.3	582.8
167.5°	883.1	861.8	844.0	817.4	803.2	785.4	762.3	737.4	721.4	691.2	662.8
170°	893.8	876.0	867.1	854.7	833.4	819.2	808.5	790.7	769.4	755.2	739.2
172.5°	902.7	895.6	890.2	886.7	865.4	854.7	847.6	828.0	828.0	808.5	796.1
175°	916.9	893.8	909.8	900.9	893.8	884.9	881.4	876.0	870.7	863.6	856.5
177.5°	924.0	920.4	924.0	920.4	918.7	909.8	915.1	909.8	908.0	906.2	900.9
180°	927.6	927.6	927.6	927.6	927.6	927.6	927.6	927.6	927.6	927.6	927.6



TEST NUMBER: P508416

CATALOG NUMBER: ASYX-X-S1-X-U-HSS-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°	19.5	19.5	21.3	21.3	21.3	21.3	23.1	21.3	19.5
95°	21.3	23.1	23.1	23.1	24.9	24.9	24.9	24.9	24.9
97.5°	23.1	23.1	24.9	24.9	24.9	26.7	26.7	26.7	26.7
100°	24.9	24.9	24.9	26.7	26.7	26.7	26.7	26.7	26.7
102.5°	24.9	24.9	24.9	26.7	26.7	26.7	26.7	26.7	26.7
105°	26.7	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
107.5°	26.7	26.7	24.9	24.9	24.9	24.9	24.9	24.9	24.9
110°	28.4	26.7	24.9	24.9	24.9	24.9	24.9	24.9	23.1
112.5°	30.2	28.4	26.7	24.9	24.9	24.9	24.9	23.1	23.1
115°	32.0	30.2	28.4	28.4	26.7	26.7	26.7	24.9	24.9
117.5°	33.8	32.0	30.2	30.2	28.4	28.4	26.7	26.7	26.7
120°	35.5	35.5	33.8	32.0	32.0	30.2	30.2	28.4	28.4
122.5°	39.1	35.5	35.5	35.5	35.5	33.8	32.0	32.0	32.0
125°	40.9	39.1	39.1	39.1	37.3	37.3	35.5	33.8	33.8
127.5°	44.4	42.6	42.6	40.9	40.9	39.1	39.1	37.3	37.3
130°	48.0	46.2	44.4	44.4	44.4	42.6	42.6	40.9	40.9
132.5°	51.5	49.8	49.8	48.0	48.0	46.2	46.2	44.4	44.4
135°	56.9	53.3	53.3	53.3	51.5	49.8	49.8	49.8	48.0
137.5°	60.4	58.6	56.9	55.1	55.1	55.1	53.3	53.3	53.3
140°	69.3	64.0	62.2	60.4	60.4	58.6	58.6	58.6	58.6
142.5°	80.0	74.6	69.3	67.5	65.7	64.0	64.0	62.2	62.2
145°	97.7	88.8	81.7	80.0	76.4	72.9	72.9	71.1	71.1
147.5°	119.1	108.4	99.5	96.0	94.2	90.6	87.1	85.3	83.5
150°	149.3	133.3	124.4	120.8	117.3	110.2	106.6	104.8	104.8
152.5°	188.4	170.6	156.4	149.3	145.7	138.6	133.3	131.5	133.3
155°	236.3	215.0	200.8	191.9	184.8	175.9	172.4	170.6	167.0
157.5°	303.9	275.4	254.1	247.0	238.1	229.2	223.9	218.6	215.0
160°	376.7	344.7	325.2	316.3	305.6	291.4	284.3	277.2	273.6
162.5°	456.7	430.0	406.9	392.7	387.4	369.6	362.5	353.6	355.4
165°	545.5	517.1	499.3	488.7	474.4	465.6	460.2	447.8	442.5
167.5°	639.7	607.7	598.8	584.6	572.2	559.7	559.7	554.4	549.1
170°	710.8	703.7	693.0	677.0	675.2	666.3	666.3	661.0	662.8
172.5°	778.3	767.6	767.6	762.3	757.0	753.4	744.5	748.1	748.1
175°	845.8	840.5	836.9	822.7	826.3	826.3	820.9	820.9	824.5
177.5°	900.9	900.9	897.3	895.6	893.8	895.6	897.3	899.1	895.6
180°	927.6	927.6	927.6	927.6	927.6	927.6	927.6	927.6	927.6

(END OF REPORT)