

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: LUMARK

Report Number: P232422

Luminaire Tested: **AXCL6ARL-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232422  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29541)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: AXCL6ARL-W  
Description: AXCENT RL WALLPACK  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6806.1 lumens  
Efficiency: N/A  
Efficacy: 120.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 0.29' x H: 0.38')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U4 - G4

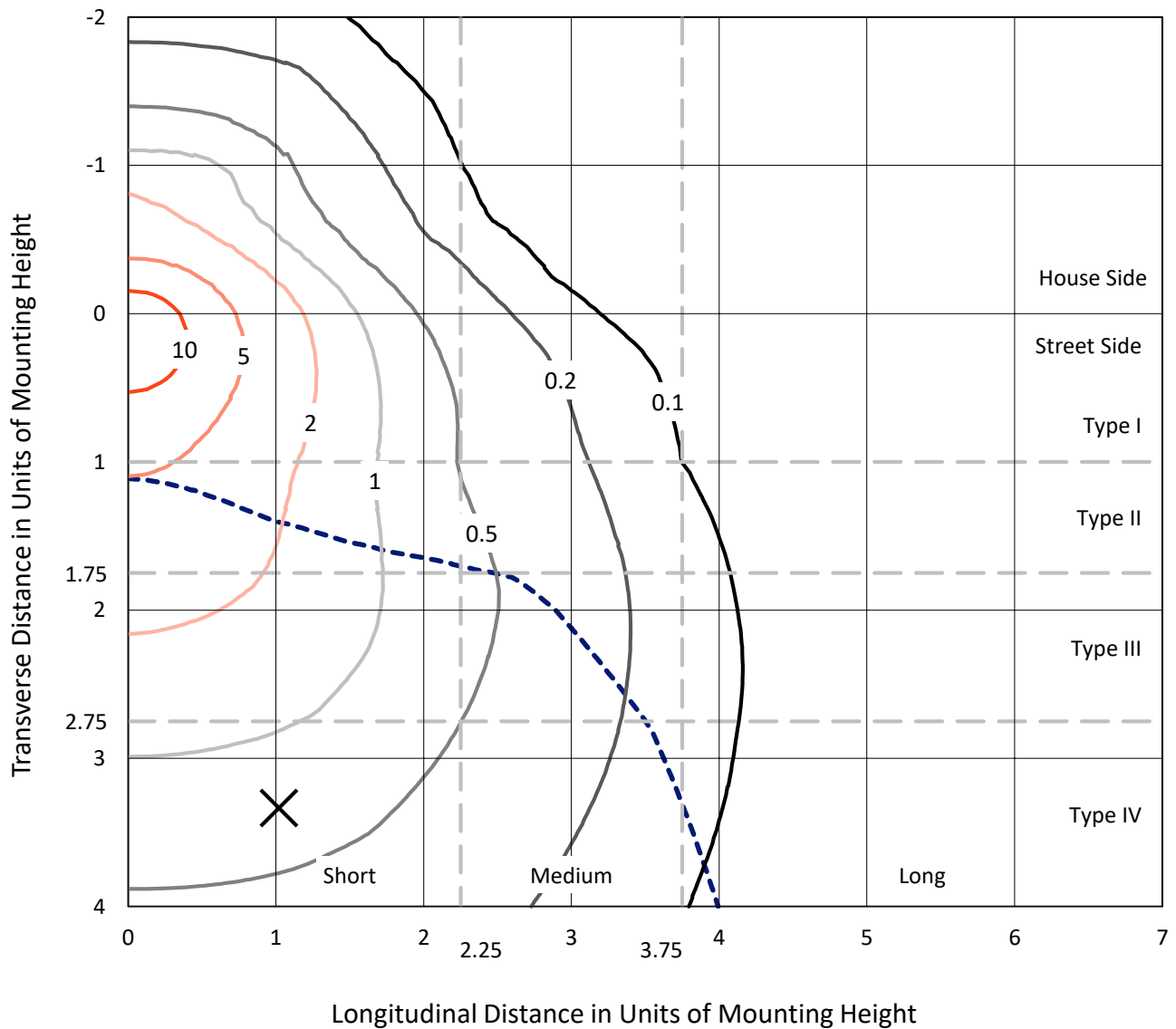
Input Watts (W): 56.43  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P232422  
 CATALOG NUMBER: AXCL6ARL-W

### Iso-Footcandle Lines of Horizontal Illumination

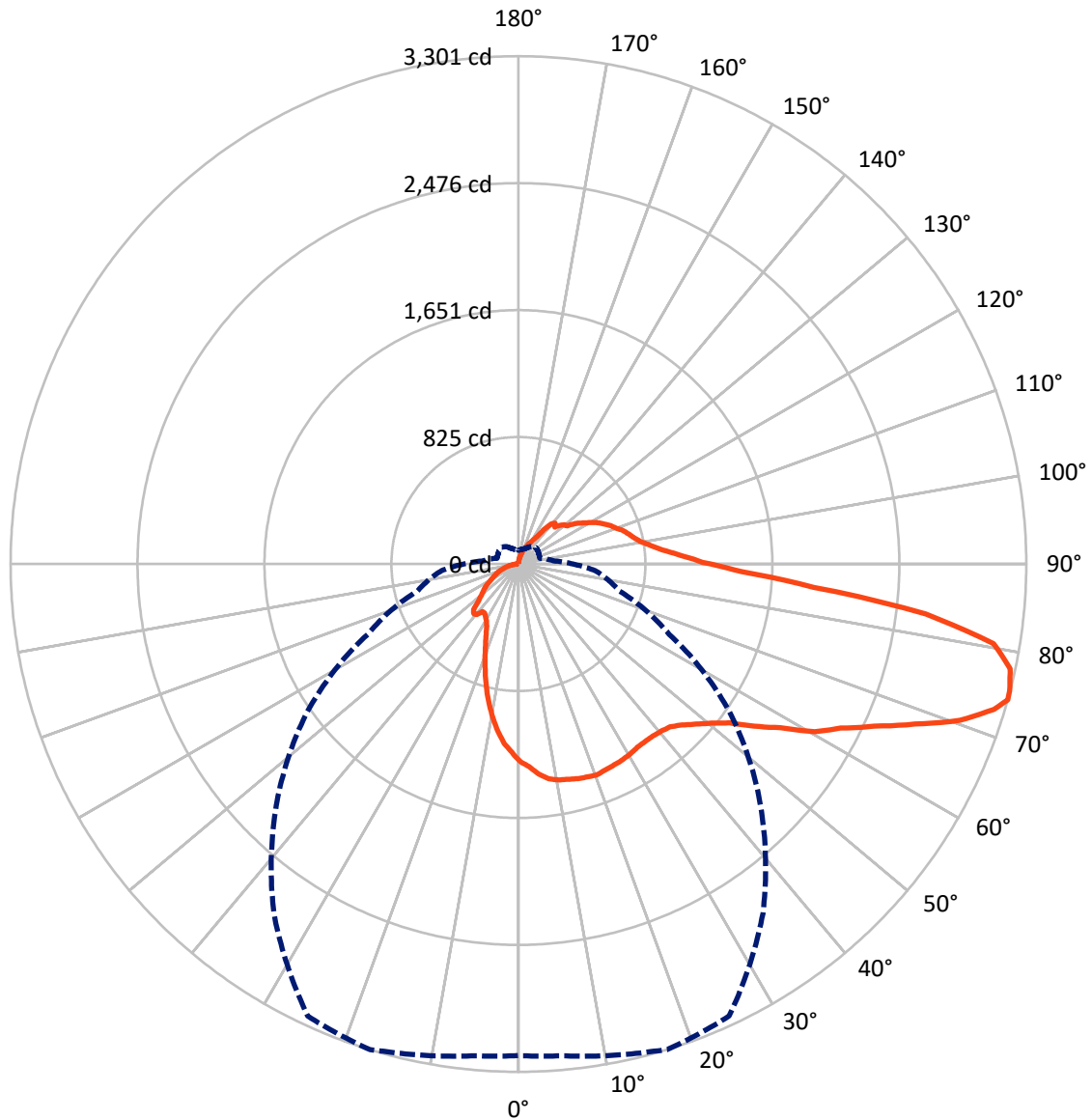
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.7 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P232422  
CATALOG NUMBER: AXCL6ARL-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 17-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1048.3	86.2	1134.6
	% Fixture	15.4	1.3	16.7
<b>Street Side</b>	Lumens	4576.0	1095.6	5671.5
	% Fixture	67.2	16.1	83.3
<b>Total</b>	Lumens	5624.3	1181.8	6806.1
	% Fixture	82.6	17.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.7	1.8
10°-20°	332.1	4.9
20°-30°	473.3	7.0
30°-40°	565.2	8.3
40°-50°	650.0	9.5
50°-60°	749.0	11.0
60°-70°	938.2	13.8
70°-80°	1119.9	16.5
80°-90°	676.0	9.9
90°-100°	360.9	5.3
100°-110°	273.0	4.0
110°-120°	213.0	3.1
120°-130°	147.4	2.2
130°-140°	100.8	1.5
140°-150°	55.7	0.8
150°-160°	23.1	0.3
160°-170°	7.2	0.1
170°-180°	0.7	0.0
0°-90°	5624.3	82.6
0°-180°	6806.1	100.0

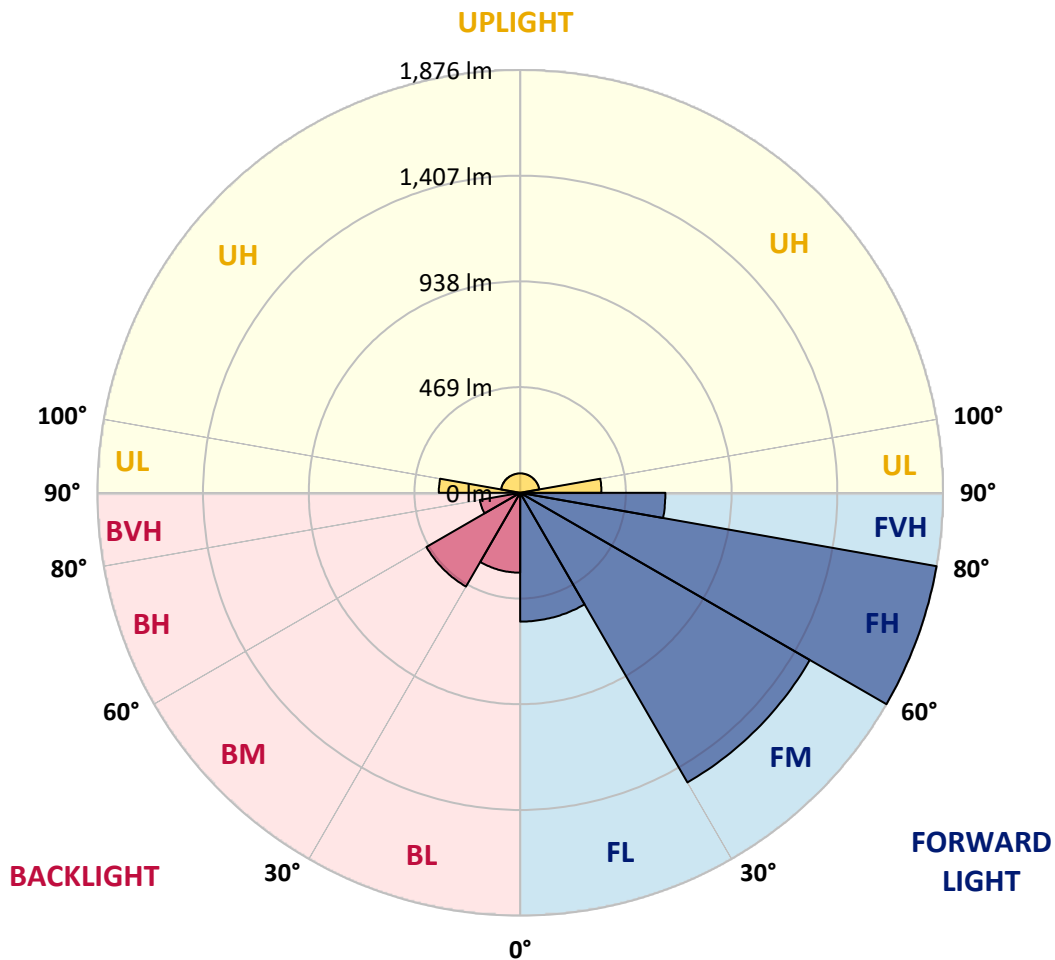


REPORT NUMBER: P232422  
 CATALOG NUMBER: AXCL6ARL-W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	571.6	8.4			
FM (30°-60°)	1483.9	21.8			
FH (60°-80°)	1876.2	27.6			G2/5000
FVH (80°-90°)	644.3	9.5			G4/750
BL (0°-30°)	354.5	5.2	B1/500		
BM (30°-60°)	480.3	7.1	B1/1000		
BH (60°-80°)	182.0	2.7	B1/500		G1/500
BVH (80°-90°)	31.6	0.5			G1/100
UL (90°-100°)	360.9	5.3		U3/500	
UH (100°-180°)	86.2	1.3		U3/500	

**BUG Rating: B1-U4-G4**  
 Type IV Short





REPORT NUMBER: P232422  
 CATALOG NUMBER: AXCL6ARL-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	17°	25°	35°	45°	55°	65°	75°	85°
0°	1283.6	1283.6	1283.6	1283.6	1283.6	1283.6	1283.6	1283.6	1283.6	1283.6	1283.6
2.5°	1318.1	1316.2	1317.6	1318.1	1318.1	1315.3	1311.1	1306.9	1304.6	1297.1	1291.1
5°	1375.8	1371.1	1371.6	1371.6	1366.9	1357.2	1345.5	1333.9	1323.2	1306.9	1294.8
7.5°	1411.1	1410.7	1408.8	1409.3	1403.2	1392.5	1378.1	1359.9	1335.3	1314.3	1291.6
10°	1428.3	1427.9	1426.9	1427.4	1422.3	1410.2	1393.4	1373.0	1345.1	1311.6	1279.9
12.5°	1439.0	1440.0	1436.7	1435.8	1431.1	1420.4	1406.9	1381.3	1352.5	1306.9	1266.9
15°	1451.6	1452.1	1447.4	1447.4	1442.8	1429.7	1410.7	1390.6	1354.8	1306.0	1254.8
17.5°	1462.3	1463.2	1454.9	1454.9	1445.1	1428.8	1410.7	1386.9	1350.6	1296.7	1236.2
20°	1468.3	1468.3	1462.3	1461.8	1446.9	1424.1	1399.0	1371.1	1337.1	1278.5	1209.2
22.5°	1458.1	1458.6	1452.5	1452.1	1442.3	1419.5	1385.1	1354.8	1319.0	1255.3	1176.2
25°	1455.3	1454.9	1446.9	1446.5	1432.5	1413.4	1376.7	1332.5	1293.9	1230.6	1144.1
27.5°	1450.7	1451.6	1443.2	1441.8	1427.4	1399.5	1366.9	1314.3	1266.4	1205.0	1114.8
30°	1441.4	1441.8	1433.9	1432.1	1413.9	1386.0	1343.7	1291.6	1239.9	1175.2	1078.9
32.5°	1435.8	1436.2	1422.8	1420.0	1400.4	1366.5	1318.1	1269.7	1206.4	1143.1	1043.1
35°	1437.6	1435.8	1420.9	1417.6	1389.3	1350.2	1298.1	1244.1	1179.4	1115.2	1007.7
37.5°	1448.8	1446.9	1424.1	1419.0	1386.9	1330.2	1276.2	1218.0	1150.6	1091.5	972.8
40°	1458.6	1455.8	1434.8	1428.8	1391.6	1324.6	1255.7	1197.1	1135.7	1058.9	946.3
42.5°	1497.2	1493.5	1454.9	1445.5	1395.8	1317.6	1233.9	1174.8	1111.5	1036.1	911.4
45°	1561.9	1554.9	1504.6	1491.6	1416.2	1312.0	1225.0	1160.8	1091.5	994.3	878.9
47.5°	1631.2	1625.6	1570.7	1554.9	1463.7	1320.4	1218.5	1151.5	1063.6	978.0	850.5
50°	1709.3	1703.3	1644.7	1625.6	1521.4	1346.0	1223.2	1135.7	1037.1	934.7	806.3
52.5°	1837.8	1824.3	1739.6	1715.9	1595.8	1392.5	1228.3	1132.0	1019.4	906.3	783.0
55°	1983.4	1973.1	1886.1	1859.2	1706.6	1457.6	1239.4	1125.0	1000.3	880.7	742.1
57.5°	2157.4	2144.4	2033.2	2007.6	1845.7	1542.3	1282.7	1106.8	990.1	848.6	708.6
60°	2339.8	2326.3	2239.3	2212.3	2036.9	1662.8	1359.5	1105.4	981.7	824.9	672.8
62.5°	2483.1	2468.6	2366.8	2349.5	2213.7	1853.6	1457.6	1132.0	960.3	803.0	638.8
65°	2686.9	2667.3	2565.9	2540.8	2378.9	2037.8	1605.6	1189.7	934.7	791.9	603.9
67.5°	2886.4	2878.1	2793.9	2777.6	2647.3	2298.4	1800.1	1294.8	920.7	782.6	567.6
70°	3086.0	3080.0	3038.1	3044.2	2977.2	2611.0	2087.1	1476.3	949.1	779.3	538.8
72.5°	3165.1	3166.1	3207.5	3231.2	3196.3	2779.9	2249.0	1701.0	1032.9	721.1	516.4
74°	3194.9	3208.4	3282.4	3301.0	3241.4	2771.1	2226.7	1674.5	1080.3	679.7	502.5
75°	3213.1	3229.8	3286.1	3297.7	3215.8	2719.0	2184.4	1619.6	1084.0	654.1	492.7
77.5°	3236.3	3249.3	3276.8	3267.5	3064.2	2477.0	1975.5	1483.2	1002.6	598.8	466.7
80°	3187.9	3200.0	3185.6	3131.6	2787.3	2168.1	1641.4	1194.8	862.6	518.3	393.6
82.5°	2958.6	2950.7	2782.2	2668.2	2230.9	1641.4	1090.1	851.4	704.9	467.6	272.2
85°	2444.0	2400.3	2029.4	1926.2	1613.0	1181.3	913.8	752.3	628.1	452.2	187.5
87.5°	1715.4	1681.9	1503.7	1452.1	1267.4	1001.7	820.7	690.4	567.6	414.5	121.9
90°	1369.2	1353.0	1230.6	1197.1	1088.2	898.9	743.5	622.5	506.2	351.3	99.1
92.5°	1174.8	1162.2	1075.7	1059.4	974.2	824.0	690.0	573.7	447.1	284.7	89.8
95°	1023.1	1012.9	944.9	942.6	890.0	769.5	650.0	541.6	397.3	228.9	90.7
97.5°	908.2	900.7	863.0	866.3	827.7	720.7	603.4	515.0	349.9	192.6	95.8
100°	830.5	825.4	795.6	804.9	776.0	679.3	574.6	473.6	316.4	167.5	102.8
102.5°	781.2	777.4	756.0	768.1	736.5	652.3	550.4	439.7	286.1	167.0	111.7
105°	739.8	737.9	726.7	739.3	720.7	623.9	521.6	406.6	264.7	171.2	119.1
107.5°	712.8	712.3	701.1	710.4	676.5	592.7	485.3	382.9	258.7	175.4	123.8



REPORT NUMBER: P232422  
 CATALOG NUMBER: AXCL6ARL-W

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	17°	25°	35°	45°	55°	65°	75°	85°
110°	661.1	662.1	664.4	671.8	646.2	560.6	457.8	356.9	258.2	176.8	124.2
112.5°	640.7	639.7	639.7	643.9	607.2	527.1	444.8	337.8	246.1	176.3	121.4
115°	611.8	611.8	610.0	609.5	570.4	492.7	422.0	325.2	236.8	171.7	116.3
117.5°	580.2	580.6	572.7	573.2	531.3	471.8	387.1	313.1	227.0	163.3	109.3
120°	538.3	536.9	530.4	529.5	495.5	437.8	355.0	280.1	211.7	156.8	101.4
122.5°	496.4	496.9	489.9	489.0	459.2	393.6	342.9	262.4	202.9	148.0	94.4
125°	457.3	457.8	455.5	453.2	414.5	373.1	308.9	248.9	192.2	139.6	87.5
127.5°	423.8	425.2	408.0	402.9	387.1	358.7	284.3	227.5	183.3	129.3	80.0
130°	388.0	388.5	391.3	392.7	377.3	317.8	276.8	221.5	174.9	120.0	73.0
132.5°	385.7	385.2	375.0	368.9	337.3	302.9	248.0	209.4	163.3	112.6	66.5
135°	352.7	350.8	339.6	336.8	321.5	291.7	253.6	208.4	160.5	105.6	60.5
137.5°	356.9	355.5	356.9	357.3	336.8	292.6	258.2	208.4	153.5	97.2	54.9
140°	358.2	357.8	341.5	337.8	320.6	299.6	248.0	194.9	138.2	85.6	49.3
142.5°	289.9	292.2	288.5	288.0	284.3	237.3	209.8	159.1	115.8	74.9	44.7
145°	240.5	241.9	225.6	220.5	207.0	199.6	168.4	133.1	100.0	67.0	40.0
147.5°	180.5	181.4	184.7	186.6	184.7	159.6	137.7	117.2	86.5	60.5	35.4
150°	168.4	168.4	159.6	160.5	151.7	139.6	126.1	108.4	79.1	54.4	31.2
152.5°	142.8	142.8	145.6	146.1	134.5	125.6	112.6	93.1	71.6	48.9	27.5
155°	124.2	125.6	122.4	122.4	123.3	111.2	98.6	79.6	63.3	43.3	25.1
157.5°	114.0	115.8	109.8	109.3	106.5	97.7	81.9	69.8	53.5	37.7	23.7
160°	100.0	101.0	96.8	95.8	87.9	78.6	68.4	58.2	45.1	32.6	21.4
162.5°	76.8	78.2	74.4	74.0	69.3	64.7	57.2	47.0	36.8	27.0	18.6
165°	62.8	63.3	61.9	61.9	59.6	51.2	44.7	37.7	29.3	20.9	15.4
167.5°	47.5	48.4	47.0	47.5	45.1	40.5	34.9	28.4	21.4	15.4	12.1
170°	37.2	37.7	36.8	36.8	34.4	29.8	23.7	18.6	14.4	9.8	9.3
172.5°	26.1	26.5	24.2	24.7	20.5	17.2	14.0	11.2	8.8	7.4	7.4
175°	3.3	4.2	7.9	7.9	8.8	7.9	7.4	6.0	5.6	6.0	6.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P232422  
 CATALOG NUMBER: AXCL6ARL-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1283.6	1283.6	1283.6	1283.6	1283.6	1283.6	1283.6	1283.6	1283.6	1283.6	1283.6
2.5°	1287.8	1284.1	1274.3	1265.0	1252.5	1241.8	1232.5	1225.0	1224.1	1219.4	1219.0
5°	1287.8	1280.8	1261.3	1239.9	1219.9	1203.2	1186.9	1172.9	1168.3	1161.3	1159.9
7.5°	1281.8	1270.1	1241.8	1212.0	1179.4	1151.0	1126.8	1104.5	1095.2	1085.4	1082.7
10°	1267.8	1251.5	1212.5	1171.5	1128.7	1088.2	1053.3	1020.8	1005.9	996.1	992.4
12.5°	1252.5	1231.5	1183.6	1128.2	1072.9	1020.3	978.0	943.1	918.4	903.1	898.4
15°	1236.2	1209.7	1149.2	1083.6	1011.5	955.2	897.0	852.3	824.4	807.2	802.1
17.5°	1213.4	1181.7	1110.6	1030.5	949.1	872.8	809.5	761.2	730.0	711.8	706.3
20°	1181.7	1143.6	1061.2	969.1	873.3	788.6	722.1	673.2	642.1	623.0	616.5
22.5°	1147.8	1103.6	1009.6	906.8	801.2	711.4	641.6	594.1	563.4	546.2	547.6
25°	1112.0	1064.0	959.8	843.0	724.9	638.3	570.9	529.0	497.8	483.9	483.9
27.5°	1076.1	1023.1	908.6	778.8	656.5	572.7	511.3	473.2	448.0	439.2	439.2
30°	1036.1	978.0	851.0	712.3	596.5	515.5	459.2	430.8	420.1	415.5	415.5
32.5°	991.9	933.8	799.3	649.0	540.2	464.8	417.8	406.6	401.1	399.7	400.1
35°	954.2	890.0	745.3	590.4	490.4	421.5	393.1	389.9	387.6	386.6	386.6
37.5°	919.3	850.5	690.9	540.6	446.6	388.0	376.4	377.3	389.9	412.2	414.1
40°	881.2	811.9	637.9	493.2	408.0	364.3	363.4	377.3	438.3	459.2	458.7
42.5°	848.6	770.9	589.0	453.2	374.1	347.5	350.3	417.3	438.3	433.6	434.5
45°	806.8	735.6	546.2	411.3	344.3	332.7	356.9	418.3	414.5	396.4	396.4
47.5°	777.9	688.1	504.8	375.5	321.0	319.2	388.0	392.2	348.5	320.6	320.1
50°	734.6	656.5	459.7	342.0	303.8	310.3	367.6	348.5	312.2	294.0	293.6
52.5°	697.9	607.2	415.9	313.6	289.4	308.9	340.1	313.6	284.3	274.5	274.5
55°	663.5	571.3	375.9	288.0	275.4	317.3	299.2	286.6	263.3	248.4	247.5
57.5°	614.1	510.4	333.1	266.1	261.0	293.6	273.1	259.6	235.4	217.3	215.9
60°	576.5	463.9	291.7	247.5	246.1	263.8	258.2	233.1	204.7	192.2	191.2
62.5°	531.3	428.5	257.3	229.4	228.4	231.2	238.7	206.6	183.3	173.1	172.1
65°	490.4	382.0	230.3	211.2	211.7	206.6	219.1	182.4	164.2	154.0	154.0
67.5°	449.0	337.8	205.2	191.7	201.5	192.6	200.5	162.4	147.5	137.7	136.8
70°	410.4	295.0	180.5	174.5	184.2	177.3	175.9	142.8	129.3	120.0	119.1
72.5°	375.5	254.0	157.7	156.8	164.2	163.3	150.7	123.8	110.7	102.4	100.5
74°	353.6	229.8	144.2	146.6	153.5	154.5	137.3	112.1	99.1	92.1	89.8
75°	340.1	211.2	134.9	139.6	147.0	148.0	127.9	103.8	91.7	84.7	82.4
77.5°	297.3	161.9	114.5	127.5	134.0	131.2	107.0	83.7	74.0	67.0	65.1
80°	233.6	115.4	95.8	115.4	122.4	110.3	84.2	65.6	55.4	49.8	48.9
82.5°	163.8	80.5	78.2	92.6	101.4	88.9	64.2	48.4	40.0	35.8	34.9
85°	101.0	59.1	63.7	74.0	78.2	65.6	47.5	37.7	29.3	24.7	23.7
87.5°	64.2	48.9	52.1	64.7	59.6	47.0	36.3	27.5	20.5	15.8	15.4
90°	52.1	47.9	48.4	62.3	48.9	36.8	27.0	18.6	9.3	4.7	4.2
92.5°	53.5	52.1	53.0	65.6	47.9	34.9	25.1	17.2	7.9	3.3	2.8
95°	67.0	60.5	60.9	64.7	49.3	35.4	25.1	17.2	7.9	2.8	2.3
97.5°	78.6	70.3	65.6	62.3	49.8	35.8	24.7	16.3	7.4	2.3	1.9
100°	86.5	78.2	65.6	60.5	49.3	35.4	24.2	15.4	7.0	1.9	1.9
102.5°	94.0	84.2	67.5	59.6	48.9	34.4	23.3	14.4	6.5	1.9	1.4
105°	100.0	88.4	70.3	58.6	48.4	33.5	22.3	13.5	6.0	1.4	0.9
107.5°	102.8	89.8	71.6	57.2	48.4	32.6	21.4	12.6	5.1	0.9	0.5



REPORT NUMBER: P232422  
 CATALOG NUMBER: AXCL6ARL-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	102.4	89.3	70.7	57.2	48.9	32.1	20.5	11.6	4.7	0.5	0.0
112.5°	99.6	87.0	68.4	57.7	47.0	32.6	19.5	11.2	4.2	0.5	0.0
115°	95.4	83.7	65.6	57.7	44.7	32.1	18.6	10.2	3.3	0.0	0.0
117.5°	89.8	79.6	62.8	56.8	42.3	30.7	17.7	9.3	2.8	0.0	0.0
120°	84.2	74.9	60.0	55.4	40.9	28.8	17.2	8.8	2.3	0.0	0.0
122.5°	78.2	70.3	57.2	53.0	40.0	26.5	15.8	7.9	1.9	0.0	0.0
125°	72.1	65.1	54.0	51.6	37.7	24.7	14.4	7.0	1.4	0.0	0.0
127.5°	66.5	60.0	50.2	50.2	34.4	23.7	13.0	6.0	1.4	0.0	0.0
130°	60.5	54.9	47.0	47.9	31.6	22.3	12.1	5.6	0.9	0.0	0.0
132.5°	54.9	49.8	43.7	44.7	28.8	21.4	11.2	4.7	0.9	0.0	0.0
135°	49.8	46.1	40.5	40.9	26.5	20.5	9.8	4.2	0.9	0.0	0.0
137.5°	45.1	42.3	38.2	36.8	24.2	19.1	8.8	3.3	0.5	0.0	0.0
140°	41.9	39.1	37.2	33.0	21.9	17.7	7.9	2.8	0.5	0.0	0.0
142.5°	38.2	36.3	36.8	29.3	20.0	15.8	7.0	2.3	0.5	0.0	0.0
145°	34.0	33.0	34.9	25.1	18.1	14.4	6.0	2.3	0.5	0.0	0.0
147.5°	31.2	30.7	33.5	21.4	16.3	13.0	5.6	1.9	0.5	0.0	0.0
150°	28.8	28.8	30.2	18.1	14.4	11.2	4.7	1.9	0.0	0.0	0.0
152.5°	26.5	27.5	26.5	15.8	12.6	9.8	3.7	1.9	0.0	0.0	0.0
155°	24.7	25.1	22.8	14.0	10.7	7.9	3.7	1.4	0.0	0.0	0.0
157.5°	23.7	23.7	20.0	12.1	8.8	6.0	3.3	1.4	0.0	0.0	0.0
160°	21.9	21.9	17.2	10.7	7.4	5.1	2.8	1.4	0.0	0.0	0.0
162.5°	19.1	18.6	14.4	9.3	6.5	4.2	2.8	1.4	0.0	0.0	0.0
165°	15.4	14.4	11.2	7.9	5.1	3.7	2.3	1.4	0.0	0.0	0.0
167.5°	11.6	11.2	8.4	6.0	4.2	3.3	2.3	1.4	0.0	0.0	0.0
170°	8.8	8.4	6.5	4.7	3.7	3.3	2.3	1.4	0.0	0.0	0.0
172.5°	7.0	7.0	5.6	4.2	3.7	3.3	2.3	0.9	0.0	0.0	0.0
175°	6.0	5.6	4.7	4.2	3.7	2.3	1.9	0.9	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)