

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: P232421

Luminaire Tested: **AXCL6ARL-C**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232421  
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-C  
Description: AXCENT RL WALLPACK  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7676.6 lumens  
Efficiency: N/A  
Efficacy: 136.0 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

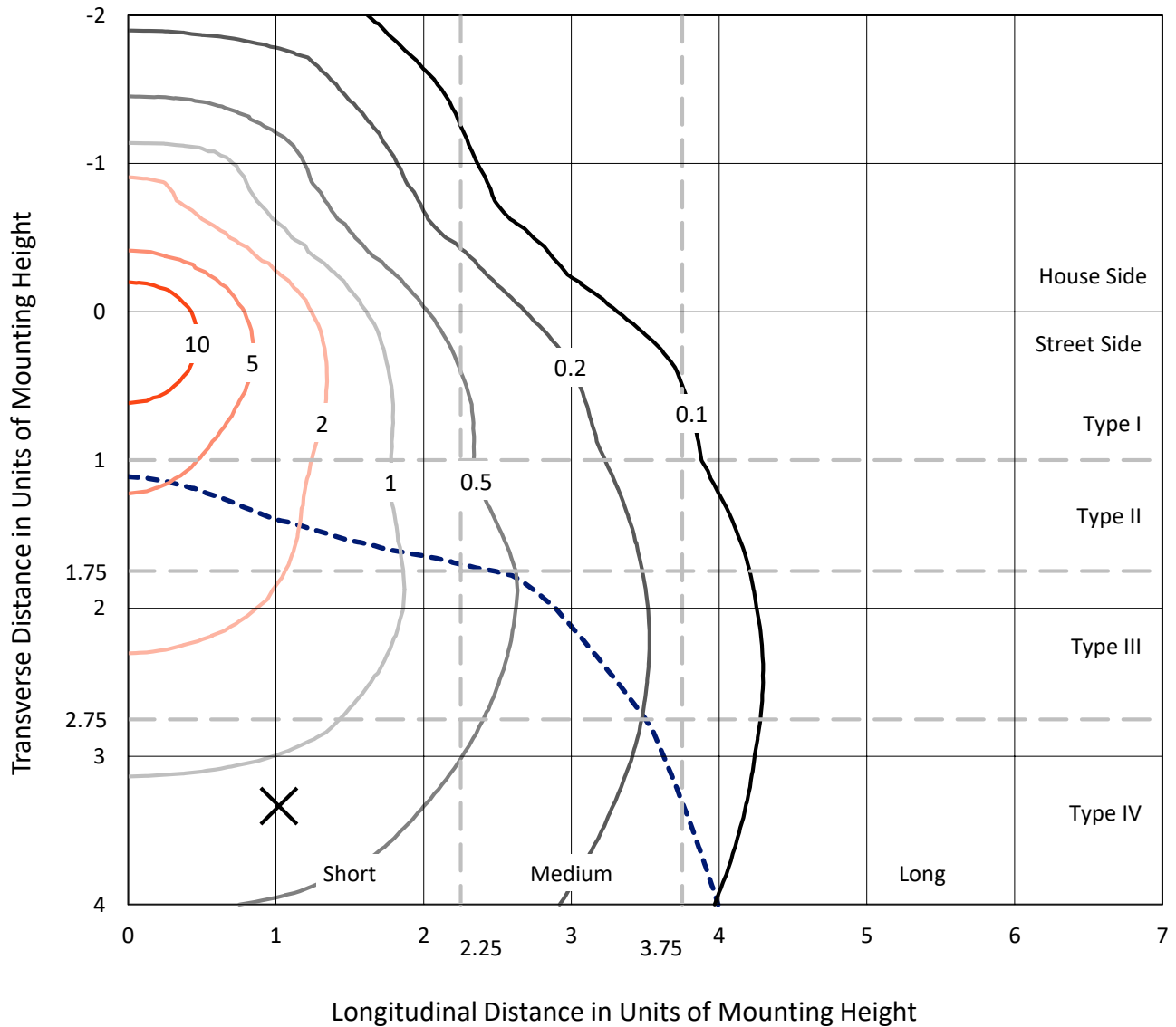
Input Watts (W): 56.43  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P232421  
 CATALOG NUMBER: AXCL6ARL-C

### Iso-Footcandle Lines of Horizontal Illumination

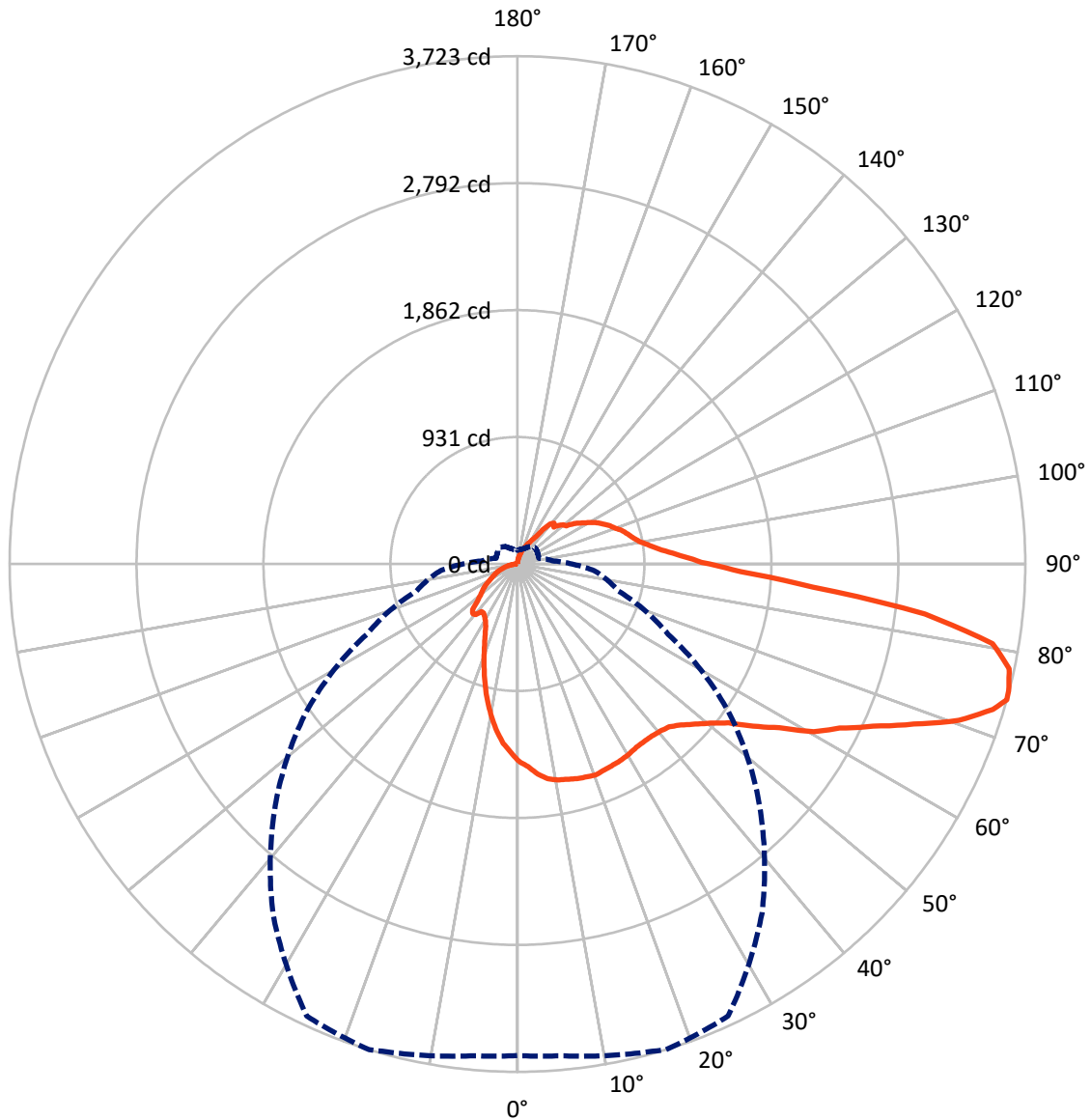
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.5 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P232421  
CATALOG NUMBER: AXCL6ARL-C

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P232421  
 CATALOG NUMBER: AXCL6ARL-C

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1182.4	97.2	1279.6
	% Fixture	15.4	1.3	16.7
<b>Street Side</b>	Lumens	5161.3	1235.7	6397.0
	% Fixture	67.2	16.1	83.3
<b>Total</b>	Lumens	6343.7	1332.9	7676.6
	% Fixture	82.6	17.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.1	1.8
10°-20°	374.6	4.9
20°-30°	533.8	7.0
30°-40°	637.5	8.3
40°-50°	733.1	9.5
50°-60°	844.7	11.0
60°-70°	1058.2	13.8
70°-80°	1263.2	16.5
80°-90°	762.4	9.9
90°-100°	407.1	5.3
100°-110°	307.9	4.0
110°-120°	240.2	3.1
120°-130°	166.3	2.2
130°-140°	113.7	1.5
140°-150°	62.8	0.8
150°-160°	26.1	0.3
160°-170°	8.1	0.1
170°-180°	0.8	0.0
0°-90°	6343.7	82.6
0°-180°	7676.6	100.0

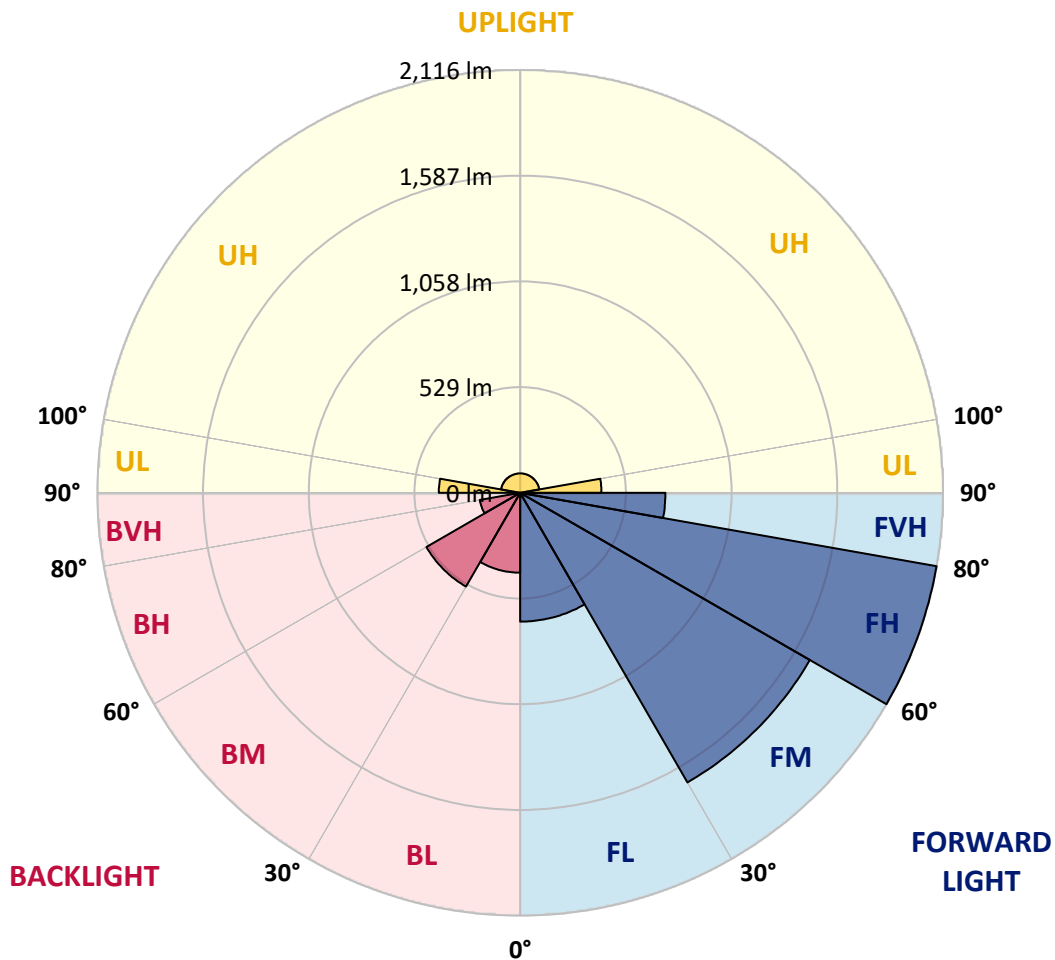


REPORT NUMBER: P232421  
 CATALOG NUMBER: AXCL6ARL-C

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	644.7	8.4			
FM	(30°-60°)	1673.7	21.8			
FH	(60°-80°)	2116.2	27.6			G2/5000
FVH	(80°-90°)	726.7	9.5			G4/750
BL	(0°-30°)	399.8	5.2	B1/500		
BM	(30°-60°)	541.7	7.1	B1/1000		
BH	(60°-80°)	205.2	2.7	B1/500		G1/500
BVH	(80°-90°)	35.7	0.5			G1/100
UL	(90°-100°)	407.1	5.3		U3/500	
UH	(100°-180°)	97.2	1.3		U3/500	

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





REPORT NUMBER: P232421  
 CATALOG NUMBER: AXCL6ARL-C

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	17°	25°	35°	45°	55°	65°	75°	85°
0°	1447.8	1447.8	1447.8	1447.8	1447.8	1447.8	1447.8	1447.8	1447.8	1447.8	1447.8
2.5°	1486.7	1484.6	1486.1	1486.7	1486.7	1483.5	1478.8	1474.1	1471.4	1463.0	1456.2
5°	1551.7	1546.5	1547.0	1547.0	1541.8	1530.7	1517.6	1504.5	1492.4	1474.1	1460.4
7.5°	1591.6	1591.1	1589.0	1589.5	1582.7	1570.6	1554.4	1533.9	1506.1	1482.5	1456.7
10°	1611.0	1610.5	1609.5	1610.0	1604.2	1590.6	1571.7	1548.6	1517.1	1479.3	1443.6
12.5°	1623.1	1624.1	1620.5	1619.4	1614.2	1602.1	1586.9	1558.0	1525.5	1474.1	1428.9
15°	1637.3	1637.8	1632.5	1632.5	1627.3	1612.6	1591.1	1568.5	1528.1	1473.0	1415.3
17.5°	1649.3	1650.4	1640.9	1640.9	1629.9	1611.6	1591.1	1564.3	1523.4	1462.5	1394.3
20°	1656.2	1656.2	1649.3	1648.8	1632.0	1606.3	1578.0	1546.5	1508.2	1442.1	1363.9
22.5°	1644.6	1645.1	1638.3	1637.8	1626.8	1601.1	1562.2	1528.1	1487.7	1415.8	1326.6
25°	1641.5	1640.9	1632.0	1631.5	1615.8	1594.2	1552.8	1502.9	1459.4	1388.0	1290.4
27.5°	1636.2	1637.3	1627.8	1626.2	1610.0	1578.5	1541.8	1482.5	1428.4	1359.1	1257.3
30°	1625.7	1626.2	1617.3	1615.2	1594.8	1563.3	1515.5	1456.7	1398.5	1325.6	1216.9
32.5°	1619.4	1620.0	1604.7	1601.6	1579.5	1541.2	1486.7	1432.1	1360.7	1289.3	1176.5
35°	1621.5	1619.4	1602.6	1599.0	1566.9	1522.9	1464.1	1403.2	1330.3	1257.9	1136.6
37.5°	1634.1	1632.0	1606.3	1600.5	1564.3	1500.3	1439.4	1373.8	1297.7	1231.1	1097.3
40°	1645.1	1642.0	1618.4	1611.6	1569.6	1494.0	1416.3	1350.2	1281.0	1194.4	1067.4
42.5°	1688.7	1684.5	1640.9	1630.4	1574.3	1486.1	1391.7	1325.0	1253.7	1168.7	1028.0
45°	1761.6	1753.8	1697.1	1682.4	1597.4	1479.8	1381.7	1309.3	1231.1	1121.4	991.3
47.5°	1839.8	1833.5	1771.6	1753.8	1650.9	1489.3	1374.4	1298.8	1199.6	1103.1	959.3
50°	1928.0	1921.2	1855.0	1833.5	1716.0	1518.1	1379.6	1281.0	1169.7	1054.3	909.4
52.5°	2072.8	2057.6	1962.1	1935.3	1799.9	1570.6	1385.4	1276.8	1149.8	1022.2	883.2
55°	2237.1	2225.5	2127.4	2097.0	1924.8	1644.1	1398.0	1268.9	1128.2	993.4	837.0
57.5°	2433.3	2418.6	2293.2	2264.4	2081.7	1739.6	1446.8	1248.4	1116.7	957.2	799.2
60°	2639.0	2623.8	2525.7	2495.3	2297.4	1875.5	1533.4	1246.8	1107.3	930.4	758.8
62.5°	2800.7	2784.4	2669.5	2650.1	2496.8	2090.7	1644.1	1276.8	1083.1	905.7	720.5
65°	3030.5	3008.5	2894.1	2865.7	2683.1	2298.5	1811.0	1341.8	1054.3	893.2	681.1
67.5°	3255.6	3246.2	3151.2	3132.9	2985.9	2592.3	2030.3	1460.4	1038.5	882.7	640.2
70°	3480.8	3473.9	3426.7	3433.5	3358.0	2945.0	2354.1	1665.1	1070.5	879.0	607.7
72.5°	3570.0	3571.0	3617.7	3644.5	3605.1	3135.5	2536.7	1918.5	1165.0	813.4	582.5
74°	3603.6	3618.8	3702.2	3723.2	3656.0	3125.5	2511.5	1888.6	1218.5	766.7	566.7
75°	3624.0	3642.9	3706.4	3719.5	3627.2	3066.7	2463.8	1826.7	1222.7	737.8	555.7
77.5°	3650.3	3665.0	3695.9	3685.4	3456.1	2793.9	2228.2	1673.0	1130.9	675.4	526.3
80°	3595.7	3609.3	3593.1	3532.2	3143.9	2445.4	1851.4	1347.6	972.9	584.6	444.0
82.5°	3337.0	3328.1	3138.1	3009.5	2516.3	1851.4	1229.5	960.3	795.0	527.4	307.0
85°	2756.6	2707.3	2289.0	2172.5	1819.4	1332.4	1030.6	848.5	708.4	510.1	211.5
87.5°	1934.8	1897.0	1696.0	1637.8	1429.5	1129.8	925.7	778.8	640.2	467.6	137.5
90°	1544.4	1526.0	1388.0	1350.2	1227.4	1013.8	838.6	702.1	570.9	396.2	111.8
92.5°	1325.0	1310.9	1213.3	1194.9	1098.9	929.4	778.2	647.0	504.3	321.2	101.3
95°	1154.0	1142.4	1065.8	1063.2	1003.9	868.0	733.1	610.8	448.1	258.2	102.3
97.5°	1024.3	1015.9	973.4	977.1	933.6	812.9	680.6	580.9	394.6	217.3	108.1
100°	936.7	930.9	897.3	907.8	875.3	766.2	648.1	534.2	356.8	188.9	116.0
102.5°	881.1	876.9	852.7	866.4	830.7	735.7	620.8	495.9	322.7	188.4	125.9
105°	834.4	832.3	819.7	833.9	812.9	703.7	588.3	458.6	298.6	193.1	134.3
107.5°	803.9	803.4	790.8	801.3	763.0	668.6	547.3	431.9	291.8	197.8	139.6



REPORT NUMBER: P232421  
 CATALOG NUMBER: AXCL6ARL-C

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	17°	25°	35°	45°	55°	65°	75°	85°
110°	745.7	746.7	749.4	757.8	728.9	632.3	516.4	402.5	291.2	199.4	140.1
112.5°	722.6	721.6	721.6	726.3	684.8	594.6	501.7	381.0	277.6	198.9	137.0
115°	690.1	690.1	688.0	687.4	643.4	555.7	476.0	366.8	267.1	193.6	131.2
117.5°	654.4	654.9	646.0	646.5	599.3	532.1	436.6	353.2	256.1	184.2	123.3
120°	607.2	605.6	598.2	597.2	558.9	493.8	400.4	315.9	238.8	176.8	114.4
122.5°	559.9	560.4	552.6	551.5	517.9	444.0	386.8	296.0	228.8	166.9	106.5
125°	515.8	516.4	513.7	511.1	467.6	420.9	348.4	280.7	216.7	157.4	98.7
127.5°	478.1	479.6	460.2	454.4	436.6	404.6	320.6	256.6	206.8	145.9	90.3
130°	437.7	438.2	441.3	442.9	425.6	358.4	312.2	249.8	197.3	135.4	82.4
132.5°	435.0	434.5	423.0	416.1	380.5	341.6	279.7	236.1	184.2	127.0	75.0
135°	397.8	395.7	383.1	379.9	362.6	329.0	286.0	235.1	181.0	119.1	68.2
137.5°	402.5	400.9	402.5	403.0	379.9	330.1	291.2	235.1	173.2	109.7	61.9
140°	404.1	403.5	385.2	381.0	361.6	337.9	279.7	219.9	155.9	96.6	55.6
142.5°	326.9	329.6	325.4	324.8	320.6	267.6	236.7	179.5	130.7	84.5	50.4
145°	271.3	272.9	254.5	248.7	233.5	225.1	190.0	150.1	112.8	75.6	45.1
147.5°	203.6	204.7	208.3	210.4	208.3	180.0	155.3	132.2	97.6	68.2	39.9
150°	190.0	190.0	180.0	181.0	171.1	157.4	142.2	122.3	89.2	61.4	35.2
152.5°	161.1	161.1	164.3	164.8	151.7	141.7	127.0	105.0	80.8	55.1	31.0
155°	140.1	141.7	138.0	138.0	139.1	125.4	111.3	89.7	71.4	48.8	28.3
157.5°	128.6	130.7	123.8	123.3	120.2	110.2	92.4	78.7	60.3	42.5	26.8
160°	112.8	113.9	109.2	108.1	99.2	88.7	77.1	65.6	50.9	36.7	24.1
162.5°	86.6	88.2	84.0	83.4	78.2	72.9	64.5	53.0	41.5	30.4	21.0
165°	70.8	71.4	69.8	69.8	67.2	57.7	50.4	42.5	33.1	23.6	17.3
167.5°	53.5	54.6	53.0	53.5	50.9	45.7	39.4	32.0	24.1	17.3	13.6
170°	42.0	42.5	41.5	41.5	38.8	33.6	26.8	21.0	16.3	11.0	10.5
172.5°	29.4	29.9	27.3	27.8	23.1	19.4	15.7	12.6	10.0	8.4	8.4
175°	3.7	4.7	8.9	8.9	10.0	8.9	8.4	6.8	6.3	6.8	6.8
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: P232421  
 CATALOG NUMBER: AXCL6ARL-C

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1447.8	1447.8	1447.8	1447.8	1447.8	1447.8	1447.8	1447.8	1447.8	1447.8	1447.8
2.5°	1452.6	1448.4	1437.3	1426.8	1412.7	1400.6	1390.1	1381.7	1380.7	1375.4	1374.9
5°	1452.6	1444.7	1422.6	1398.5	1375.9	1357.0	1338.7	1322.9	1317.7	1309.8	1308.2
7.5°	1445.7	1432.6	1400.6	1367.0	1330.3	1298.3	1271.0	1245.8	1235.3	1224.3	1221.1
10°	1430.0	1411.6	1367.5	1321.4	1273.1	1227.4	1188.1	1151.3	1134.5	1123.5	1119.3
12.5°	1412.7	1389.1	1335.0	1272.6	1210.1	1150.8	1103.1	1063.7	1035.9	1018.6	1013.3
15°	1394.3	1364.4	1296.2	1222.2	1140.8	1077.3	1011.7	961.4	929.9	910.5	904.7
17.5°	1368.6	1332.9	1252.6	1162.4	1070.5	984.5	913.1	858.5	823.4	802.9	796.6
20°	1332.9	1289.9	1197.0	1093.1	985.0	889.5	814.4	759.3	724.2	702.7	695.3
22.5°	1294.6	1244.7	1138.7	1022.8	903.6	802.4	723.7	670.1	635.5	616.1	617.6
25°	1254.2	1200.1	1082.6	950.9	817.6	720.0	643.9	596.7	561.5	545.8	545.8
27.5°	1213.8	1154.0	1024.9	878.5	740.4	646.0	576.7	533.7	505.3	495.4	495.4
30°	1168.7	1103.1	959.8	803.4	672.7	581.4	517.9	485.9	473.9	468.6	468.6
32.5°	1118.8	1053.2	901.5	732.0	609.3	524.2	471.2	458.6	452.3	450.8	451.3
35°	1076.3	1003.9	840.7	665.9	553.1	475.4	443.4	439.8	437.1	436.1	436.1
37.5°	1036.9	959.3	779.3	609.8	503.8	437.7	424.5	425.6	439.8	464.9	467.0
40°	993.9	915.7	719.5	556.3	460.2	410.9	409.8	425.6	494.3	517.9	517.4
42.5°	957.2	869.5	664.4	511.1	421.9	392.0	395.1	470.7	494.3	489.1	490.1
45°	909.9	829.7	616.1	463.9	388.3	375.2	402.5	471.8	467.6	447.1	447.1
47.5°	877.4	776.1	569.4	423.5	362.1	360.0	437.7	442.4	393.0	361.6	361.0
50°	828.6	740.4	518.5	385.7	342.7	350.0	414.6	393.0	352.1	331.7	331.1
52.5°	787.1	684.8	469.1	353.7	326.4	348.4	383.6	353.7	320.6	309.6	309.6
55°	748.3	644.4	424.0	324.8	310.7	357.9	337.4	323.3	297.0	280.2	279.2
57.5°	692.7	575.7	375.7	300.2	294.4	331.1	308.0	292.8	265.5	245.1	243.5
60°	650.2	523.2	329.0	279.2	277.6	297.5	291.2	262.9	230.9	216.7	215.7
62.5°	599.3	483.3	290.2	258.7	257.7	260.8	269.2	233.0	206.8	195.2	194.2
65°	553.1	430.8	259.8	238.2	238.8	233.0	247.2	205.7	185.2	173.7	173.7
67.5°	506.4	381.0	231.4	216.2	227.2	217.3	226.2	183.1	166.4	155.3	154.3
70°	462.8	332.7	203.6	196.8	207.8	199.9	198.4	161.1	145.9	135.4	134.3
72.5°	423.5	286.5	177.9	176.8	185.2	184.2	170.0	139.6	124.9	115.4	113.3
74°	398.8	259.2	162.7	165.3	173.2	174.2	154.8	126.5	111.8	103.9	101.3
75°	383.6	238.2	152.2	157.4	165.8	166.9	144.3	117.0	103.4	95.5	92.9
77.5°	335.3	182.6	129.1	143.8	151.1	148.0	120.7	94.5	83.4	75.6	73.5
80°	263.4	130.1	108.1	130.1	138.0	124.4	95.0	74.0	62.4	56.1	55.1
82.5°	184.7	90.8	88.2	104.4	114.4	100.2	72.4	54.6	45.1	40.4	39.4
85°	113.9	66.6	71.9	83.4	88.2	74.0	53.5	42.5	33.1	27.8	26.8
87.5°	72.4	55.1	58.8	72.9	67.2	53.0	40.9	31.0	23.1	17.8	17.3
90°	58.8	54.1	54.6	70.3	55.1	41.5	30.4	21.0	10.5	5.2	4.7
92.5°	60.3	58.8	59.8	74.0	54.1	39.4	28.3	19.4	8.9	3.7	3.1
95°	75.6	68.2	68.7	72.9	55.6	39.9	28.3	19.4	8.9	3.1	2.6
97.5°	88.7	79.2	74.0	70.3	56.1	40.4	27.8	18.4	8.4	2.6	2.1
100°	97.6	88.2	74.0	68.2	55.6	39.9	27.3	17.3	7.9	2.1	2.1
102.5°	106.0	95.0	76.1	67.2	55.1	38.8	26.2	16.3	7.3	2.1	1.6
105°	112.8	99.7	79.2	66.1	54.6	37.8	25.2	15.2	6.8	1.6	1.0
107.5°	116.0	101.3	80.8	64.5	54.6	36.7	24.1	14.2	5.8	1.0	0.5



REPORT NUMBER: P232421  
 CATALOG NUMBER: AXCL6ARL-C

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	115.4	100.8	79.8	64.5	55.1	36.2	23.1	13.1	5.2	0.5	0.0
112.5°	112.3	98.1	77.1	65.1	53.0	36.7	22.0	12.6	4.7	0.5	0.0
115°	107.6	94.5	74.0	65.1	50.4	36.2	21.0	11.5	3.7	0.0	0.0
117.5°	101.3	89.7	70.8	64.0	47.8	34.6	19.9	10.5	3.1	0.0	0.0
120°	95.0	84.5	67.7	62.4	46.2	32.5	19.4	10.0	2.6	0.0	0.0
122.5°	88.2	79.2	64.5	59.8	45.1	29.9	17.8	8.9	2.1	0.0	0.0
125°	81.3	73.5	60.9	58.2	42.5	27.8	16.3	7.9	1.6	0.0	0.0
127.5°	75.0	67.7	56.7	56.7	38.8	26.8	14.7	6.8	1.6	0.0	0.0
130°	68.2	61.9	53.0	54.1	35.7	25.2	13.6	6.3	1.0	0.0	0.0
132.5°	61.9	56.1	49.3	50.4	32.5	24.1	12.6	5.2	1.0	0.0	0.0
135°	56.1	52.0	45.7	46.2	29.9	23.1	11.0	4.7	1.0	0.0	0.0
137.5°	50.9	47.8	43.0	41.5	27.3	21.5	10.0	3.7	0.5	0.0	0.0
140°	47.2	44.1	42.0	37.3	24.7	19.9	8.9	3.1	0.5	0.0	0.0
142.5°	43.0	40.9	41.5	33.1	22.6	17.8	7.9	2.6	0.5	0.0	0.0
145°	38.3	37.3	39.4	28.3	20.5	16.3	6.8	2.6	0.5	0.0	0.0
147.5°	35.2	34.6	37.8	24.1	18.4	14.7	6.3	2.1	0.5	0.0	0.0
150°	32.5	32.5	34.1	20.5	16.3	12.6	5.2	2.1	0.0	0.0	0.0
152.5°	29.9	31.0	29.9	17.8	14.2	11.0	4.2	2.1	0.0	0.0	0.0
155°	27.8	28.3	25.7	15.7	12.1	8.9	4.2	1.6	0.0	0.0	0.0
157.5°	26.8	26.8	22.6	13.6	10.0	6.8	3.7	1.6	0.0	0.0	0.0
160°	24.7	24.7	19.4	12.1	8.4	5.8	3.1	1.6	0.0	0.0	0.0
162.5°	21.5	21.0	16.3	10.5	7.3	4.7	3.1	1.6	0.0	0.0	0.0
165°	17.3	16.3	12.6	8.9	5.8	4.2	2.6	1.6	0.0	0.0	0.0
167.5°	13.1	12.6	9.4	6.8	4.7	3.7	2.6	1.6	0.0	0.0	0.0
170°	10.0	9.4	7.3	5.2	4.2	3.7	2.6	1.6	0.0	0.0	0.0
172.5°	7.9	7.9	6.3	4.7	4.2	3.7	2.6	1.0	0.0	0.0	0.0
175°	6.8	6.3	5.2	4.7	4.2	2.6	2.1	1.0	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)