

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: P290553

Luminaire Tested: **AXCS4ARL-C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1811-024-10)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: AXCS4ARL-C
Description: 4ARL AXCENT SMALL LED WALLPACK WITH 5000K CCT AND 70 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5858 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 0.5' x H: 0.17')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U4 - G3

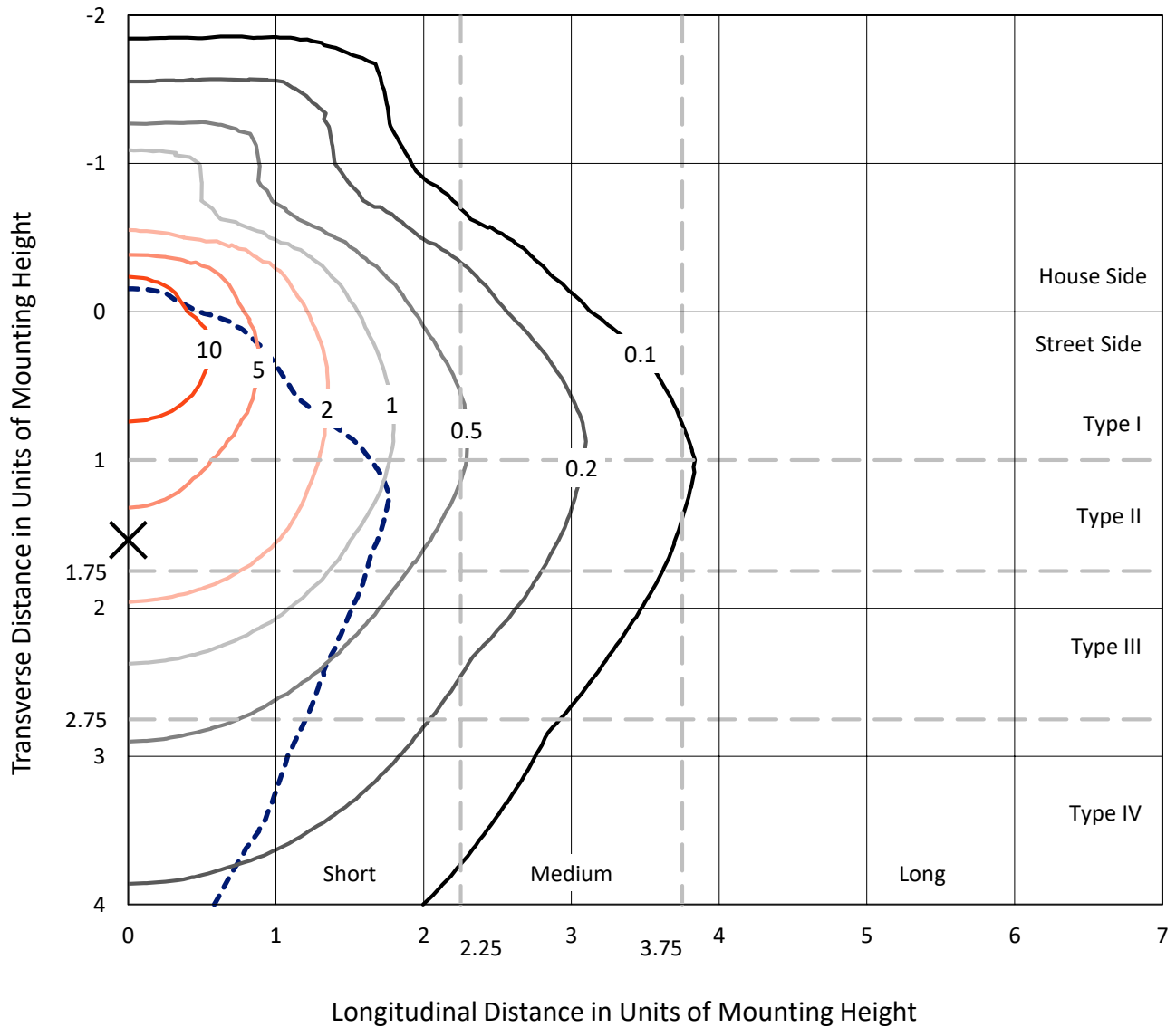
Input Watts (W): 42.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P290553
 CATALOG NUMBER: AXCS4ARL-C

Iso-Footcandle Lines of Horizontal Illumination

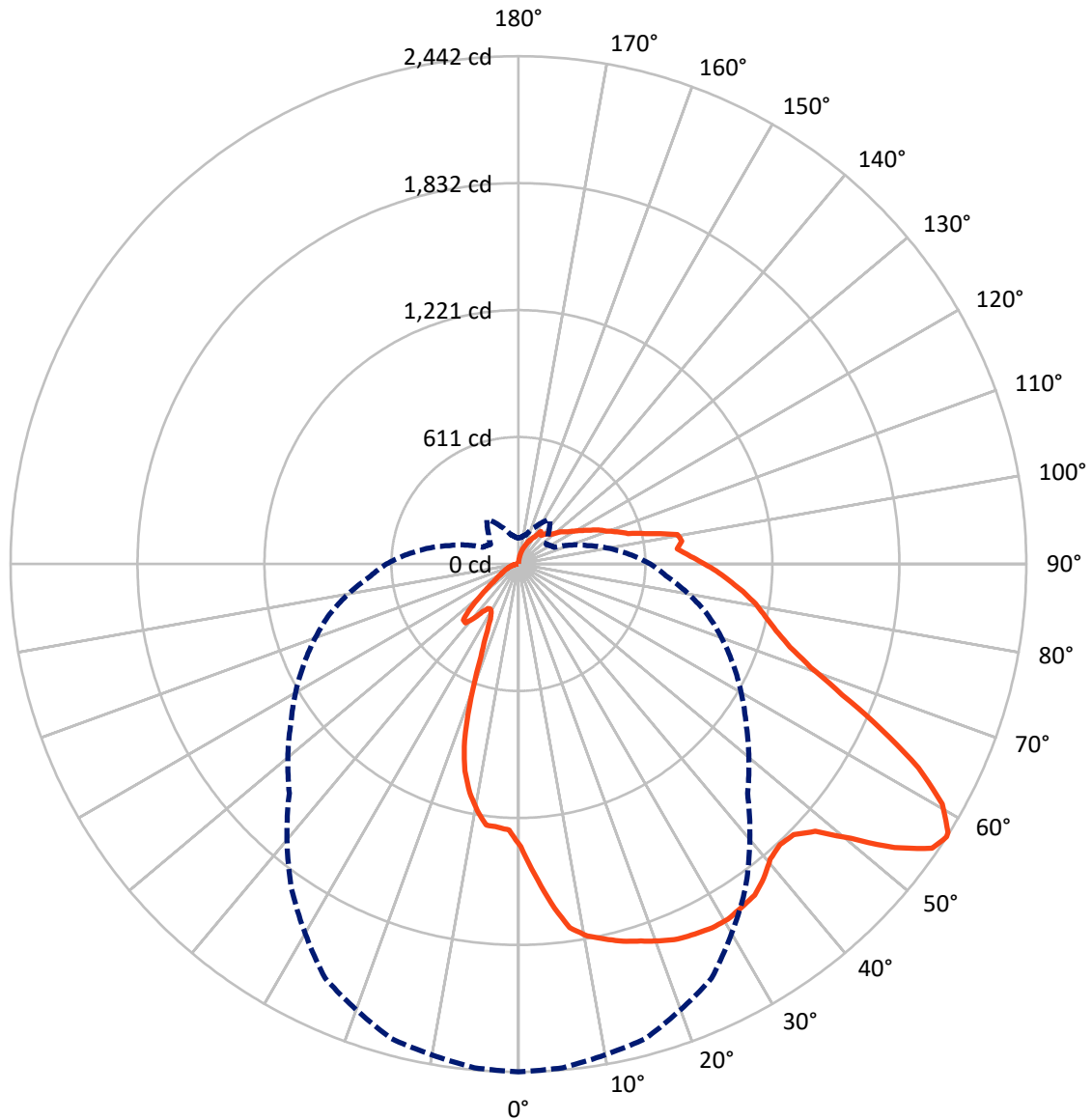
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.1 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P290553
CATALOG NUMBER: AXCS4ARL-C

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P290553
 CATALOG NUMBER: AXCS4ARL-C

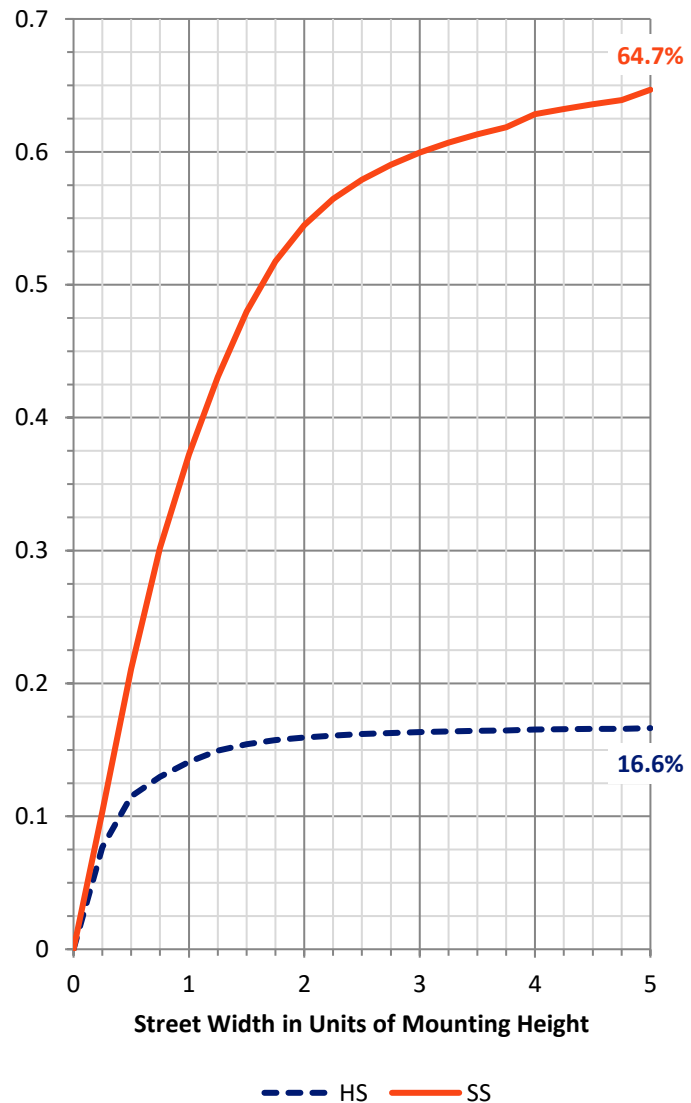
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	994.4	66.8	1061.2
	% Fixture	17.0	1.1	18.1
Street Side	Lumens	4018.3	778.5	4796.8
	% Fixture	68.6	13.3	81.9
Total	Lumens	5012.6	845.4	5858.0
	% Fixture	85.6	14.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.7	2.3
10°-20°	402.9	6.9
20°-30°	583.5	10.0
30°-40°	690.3	11.8
40°-50°	750.3	12.8
50°-60°	832.6	14.2
60°-70°	739.4	12.6
70°-80°	511.6	8.7
80°-90°	366.5	6.3
90°-100°	278.1	4.7
100°-110°	201.7	3.4
110°-120°	138.6	2.4
120°-130°	94.2	1.6
130°-140°	63.8	1.1
140°-150°	41.1	0.7
150°-160°	20.6	0.4
160°-170°	6.8	0.1
170°-180°	0.5	0.0
0°-90°	5012.6	85.6
0°-180°	5858.0	100.0



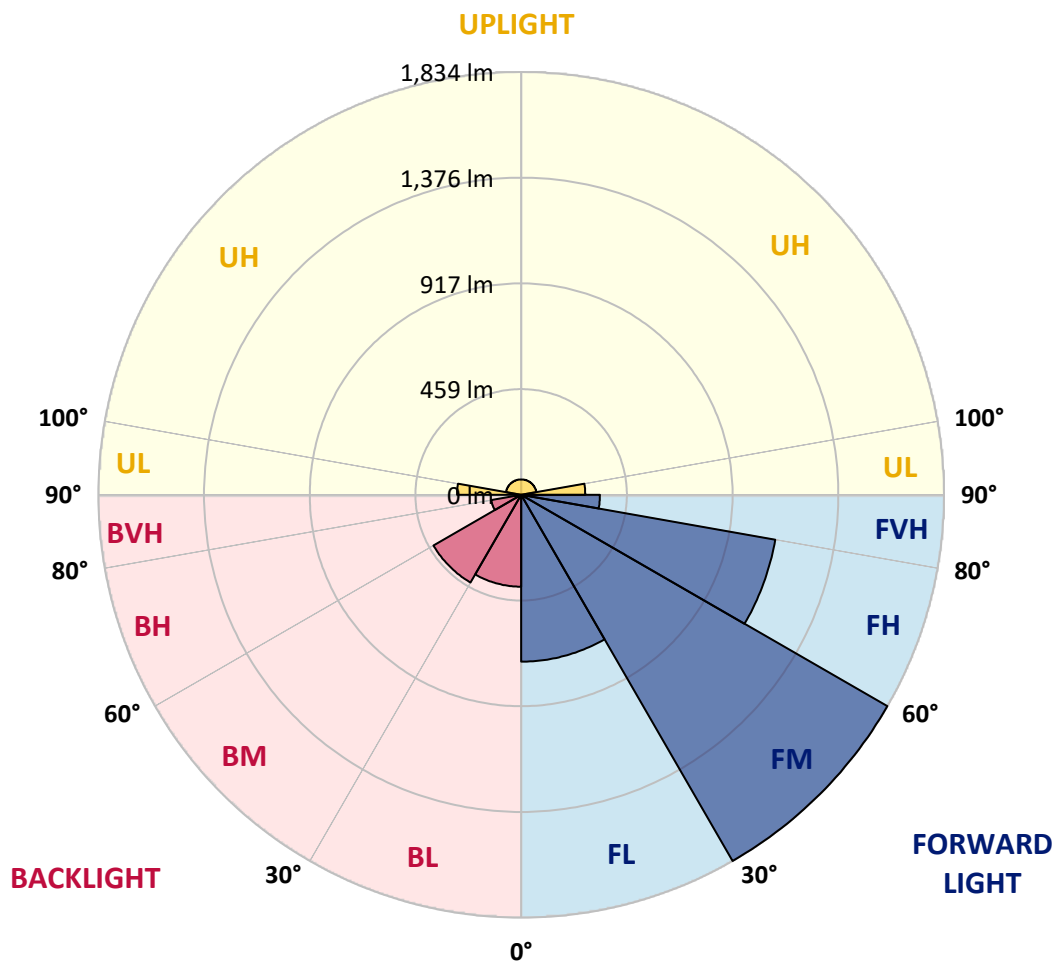
REPORT NUMBER: P290553
 CATALOG NUMBER: AXCS4ARL-C

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	723.5	12.4			
FM (30°-60°)	1834.1	31.3			
FH (60°-80°)	1119.1	19.1			G1/1800
FVH (80°-90°)	341.6	5.8			G3/500
BL (0°-30°)	398.6	6.8	B1/500		
BM (30°-60°)	439.0	7.5	B1/1000		
BH (60°-80°)	131.9	2.3	B1/500		G1/500
BVH (80°-90°)	24.8	0.4			G1/100
UL (90°-100°)	278.1	4.7		U3/500	
UH (100°-180°)	66.8	1.1		U3/500	

BUG Rating: B1-U4-G3

Type IV Short





REPORT NUMBER: P290553
 CATALOG NUMBER: AXCS4ARL-C

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1358.9	1358.9	1358.9	1358.9	1358.9	1358.9	1358.9	1358.9	1358.9	1358.9	1358.9
2.5°	1494.4	1482.2	1483.9	1475.2	1461.2	1449.8	1431.5	1410.5	1389.5	1362.4	1350.1
5°	1637.8	1626.5	1615.1	1596.7	1565.3	1534.6	1507.5	1461.2	1417.5	1368.5	1345.8
7.5°	1765.5	1755.0	1747.1	1726.2	1691.2	1641.3	1571.4	1510.2	1442.8	1371.1	1339.6
10°	1818.8	1814.5	1808.3	1796.1	1770.7	1730.5	1657.9	1558.3	1467.3	1372.0	1330.9
12.5°	1851.2	1846.8	1841.6	1826.7	1805.7	1774.2	1720.9	1612.5	1485.7	1370.3	1316.9
15°	1882.7	1879.2	1869.6	1852.9	1825.0	1792.6	1746.3	1654.4	1506.7	1364.1	1303.8
17.5°	1906.3	1904.5	1895.8	1874.8	1844.2	1804.9	1755.0	1677.2	1526.8	1358.0	1287.2
20°	1935.1	1933.4	1918.5	1891.4	1857.3	1811.8	1755.9	1679.8	1539.0	1347.5	1267.9
22.5°	1959.6	1958.8	1944.8	1917.7	1868.7	1814.5	1752.4	1672.8	1543.4	1335.3	1245.2
25°	1971.0	1971.9	1957.0	1930.8	1887.9	1814.5	1742.8	1658.8	1535.5	1318.7	1220.7
27.5°	1982.4	1982.4	1966.6	1936.0	1891.4	1822.3	1728.8	1638.7	1516.3	1296.8	1191.0
30°	1983.2	1985.9	1970.1	1936.0	1886.2	1819.7	1716.5	1615.1	1490.1	1269.7	1160.4
32.5°	1969.2	1971.0	1957.9	1930.8	1875.7	1801.4	1700.8	1581.9	1453.3	1236.5	1121.0
35°	1956.1	1954.4	1940.4	1910.7	1859.9	1780.4	1673.7	1543.4	1407.0	1194.5	1079.9
37.5°	1916.8	1917.7	1908.0	1884.4	1835.5	1751.5	1635.2	1497.9	1353.6	1147.3	1029.2
40°	1865.2	1865.2	1852.9	1835.5	1799.6	1718.3	1593.2	1450.7	1295.1	1093.1	979.4
42.5°	1844.2	1839.0	1815.3	1783.0	1749.8	1676.3	1546.9	1395.6	1233.0	1045.8	928.7
45°	1856.4	1853.8	1825.0	1761.1	1692.9	1609.9	1484.8	1329.2	1183.1	993.4	884.1
47.5°	1920.3	1908.0	1864.3	1786.5	1672.8	1549.5	1411.4	1272.3	1133.3	930.4	834.2
50°	2074.2	2062.8	1993.7	1855.6	1700.8	1515.4	1353.6	1225.1	1084.3	884.9	776.5
52.5°	2266.6	2255.2	2162.5	1993.7	1760.3	1512.8	1330.9	1182.2	1033.6	818.5	728.4
55°	2413.5	2396.8	2320.8	2131.0	1848.6	1535.5	1328.3	1169.1	989.9	777.4	664.6
57°	2442.3	2431.8	2362.7	2198.4	1903.7	1558.3	1336.1	1138.5	941.8	719.7	634.8
57.5°	2436.2	2424.8	2361.0	2203.6	1910.7	1560.9	1340.5	1138.5	933.9	717.9	629.6
60°	2342.6	2326.0	2278.8	2146.8	1890.5	1559.1	1337.0	1118.4	900.7	666.3	559.6
62.5°	2159.0	2135.4	2079.4	1956.1	1758.5	1473.4	1285.4	1100.9	876.2	621.7	513.3
65°	1918.5	1898.4	1825.0	1725.3	1552.1	1334.4	1224.2	1073.8	855.2	582.4	478.3
67.5°	1678.9	1659.7	1600.2	1480.4	1306.4	1160.4	1082.6	1015.2	828.1	555.3	433.7
70°	1490.9	1479.6	1412.2	1280.2	1116.7	976.8	951.4	944.4	792.2	526.4	392.6
72.5°	1365.9	1354.5	1284.6	1148.1	974.1	838.6	854.3	836.8	766.9	504.6	350.7
75°	1279.3	1271.4	1192.7	1052.8	881.4	738.9	726.7	734.5	708.3	474.8	307.8
77.5°	1212.9	1205.9	1123.7	984.6	811.5	663.7	651.5	676.8	656.7	440.7	258.8
80°	1156.0	1142.9	1065.1	926.9	766.9	610.4	591.1	587.6	583.3	372.5	202.0
82.5°	1087.8	1074.7	1000.4	873.6	724.9	579.8	546.5	534.3	478.3	289.4	149.5
85°	1017.0	1003.9	937.4	822.0	687.3	541.3	510.7	491.4	429.4	213.4	100.6
87.5°	952.3	939.2	875.3	771.3	648.0	515.0	475.7	442.5	361.1	155.7	70.8
90°	880.6	873.6	819.4	724.0	614.7	486.2	449.5	406.6	313.1	126.8	64.7
92.5°	817.6	813.2	766.0	682.1	584.1	470.5	420.6	367.3	271.1	104.9	58.6
95°	766.9	759.9	719.7	648.0	560.5	454.7	410.1	336.7	232.6	90.9	59.5
97.5°	794.0	791.4	752.0	670.7	571.0	459.1	385.6	308.7	202.9	86.6	62.1
100°	777.4	773.0	732.8	649.7	557.0	433.7	353.3	274.6	169.6	88.3	66.5
102.5°	646.2	642.7	620.0	556.1	480.9	382.1	304.3	231.7	157.4	90.9	71.7
105°	547.4	543.9	522.0	481.8	421.5	338.4	273.7	208.1	151.3	94.4	75.2
107.5°	499.3	499.3	482.7	446.0	392.6	319.2	257.1	203.7	144.3	97.1	77.8



REPORT NUMBER: P290553
 CATALOG NUMBER: AXCS4ARL-C

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	452.1	450.3	435.5	407.5	356.8	299.1	248.3	194.1	137.3	97.9	78.7
112.5°	418.9	412.7	401.4	376.9	328.8	281.6	237.0	179.3	132.0	97.1	78.7
115°	376.9	374.3	364.6	344.5	305.2	264.1	219.5	164.4	129.4	95.3	76.1
117.5°	342.8	341.0	332.3	313.1	281.6	247.5	202.9	154.8	125.9	91.8	72.6
120°	312.2	309.6	303.4	284.2	257.1	229.1	188.9	148.7	121.5	87.4	69.1
122.5°	285.1	284.2	278.9	261.5	241.3	214.2	176.6	145.2	117.2	82.2	63.8
125°	265.8	265.0	256.2	239.6	218.6	201.1	170.5	142.5	111.1	76.1	58.6
127.5°	250.1	249.2	242.2	225.6	213.4	188.9	160.9	134.7	104.1	70.0	54.2
130°	224.7	223.0	217.7	211.6	201.1	176.6	158.3	126.8	97.1	64.7	49.8
132.5°	207.2	207.2	209.9	205.5	188.0	167.0	149.5	119.8	90.9	59.5	46.3
135°	207.2	207.2	202.9	193.3	176.6	169.6	140.8	111.1	85.7	54.2	42.0
137.5°	195.0	194.1	189.8	180.1	171.4	160.9	130.3	103.2	79.6	49.8	38.5
140°	179.3	178.4	174.9	173.1	177.5	146.9	121.5	97.9	74.3	45.5	35.0
142.5°	175.8	176.6	187.1	184.5	157.4	136.4	112.8	90.9	69.1	41.1	32.4
145°	189.8	186.3	178.4	159.1	143.4	124.2	107.6	87.4	63.8	36.7	28.9
147.5°	157.4	156.5	152.2	146.0	132.0	118.9	98.8	80.4	57.7	32.4	26.2
150°	147.8	147.8	143.4	132.0	121.5	108.4	90.9	73.5	51.6	28.9	23.6
152.5°	128.5	127.7	125.0	123.3	112.8	96.2	83.9	65.6	45.5	24.5	21.0
155°	121.5	121.5	121.5	109.3	97.9	88.3	75.2	57.7	40.2	21.0	18.4
157.5°	104.1	102.3	100.6	95.3	89.2	78.7	64.7	49.8	35.0	17.5	15.7
160°	91.8	92.7	90.9	85.7	78.7	68.2	55.1	42.0	29.7	14.0	13.1
162.5°	80.4	79.6	78.7	74.3	66.5	56.8	45.5	34.1	24.5	11.4	11.4
165°	67.3	66.5	63.8	60.3	53.3	44.6	35.0	28.0	18.4	9.6	8.7
167.5°	51.6	51.6	49.8	45.5	40.2	32.4	25.4	20.1	12.2	7.9	7.0
170°	37.6	37.6	35.9	30.6	23.6	20.1	17.5	12.2	7.9	6.1	6.1
172.5°	14.9	15.7	14.9	14.9	13.1	10.5	8.7	7.0	4.4	4.4	4.4
175°	0.9	0.9	1.7	3.5	4.4	4.4	4.4	3.5	4.4	4.4	4.4
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: P290553
 CATALOG NUMBER: AXCS4ARL-C

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1358.9	1358.9	1358.9	1358.9	1358.9	1358.9	1358.9	1358.9	1358.9	1358.9
2.5°	1342.3	1337.0	1325.7	1308.2	1295.1	1288.1	1281.1	1281.9	1277.6	1280.2
5°	1330.0	1312.5	1289.8	1269.7	1260.9	1259.2	1261.8	1267.1	1268.8	1268.8
7.5°	1316.9	1288.1	1263.6	1256.6	1260.9	1265.3	1266.2	1268.8	1265.3	1265.3
10°	1302.0	1260.9	1249.6	1254.0	1256.6	1244.3	1223.3	1212.0	1205.9	1201.5
12.5°	1281.9	1239.1	1242.6	1243.5	1216.4	1182.2	1152.5	1135.0	1124.5	1124.5
15°	1260.1	1219.0	1228.6	1205.0	1156.9	1111.4	1080.8	1054.6	1034.5	1028.3
17.5°	1237.3	1200.6	1208.5	1149.9	1091.3	1035.3	975.0	916.4	892.8	887.6
20°	1212.0	1179.6	1167.4	1092.2	1018.7	924.3	823.7	734.5	684.7	680.3
22.5°	1183.1	1153.4	1113.2	1026.6	923.4	778.3	637.5	537.8	494.1	480.1
25°	1152.5	1124.5	1061.6	954.0	793.1	608.6	461.7	393.5	364.6	368.1
27.5°	1119.3	1086.9	1005.6	864.0	639.2	454.7	355.9	313.9	297.3	295.6
30°	1083.4	1041.5	940.9	754.6	501.9	355.0	298.2	274.6	266.7	265.0
32.5°	1043.2	991.6	866.6	626.1	395.2	297.3	266.7	258.0	255.3	254.5
35°	995.1	930.4	779.1	510.7	321.8	265.0	252.7	254.5	258.8	259.7
37.5°	944.4	864.8	687.3	410.1	277.2	247.5	249.2	267.6	285.9	288.6
40°	890.2	803.6	585.0	336.7	248.3	237.8	259.7	303.4	333.2	341.0
42.5°	851.7	731.9	493.2	283.3	230.9	236.1	285.9	348.9	377.8	380.4
45°	798.4	666.3	411.9	248.3	217.7	244.0	319.2	372.5	377.8	377.8
47.5°	744.2	599.0	343.7	223.0	209.0	259.7	343.7	355.9	327.0	324.4
50°	690.8	522.9	286.8	202.0	204.6	278.1	335.8	292.9	252.7	249.2
52.5°	639.2	457.3	244.8	185.4	202.9	288.6	297.3	227.4	190.6	190.6
55°	585.9	388.3	211.6	173.1	202.9	281.6	245.7	176.6	150.4	146.9
57°	535.2	342.8	190.6	163.5	202.9	263.2	199.4	146.9	127.7	125.9
57.5°	523.8	332.3	187.1	161.8	202.9	258.0	190.6	141.7	121.5	120.7
60°	476.6	278.9	166.1	152.2	201.1	222.1	152.2	115.4	101.4	100.6
62.5°	428.5	239.6	149.5	143.4	193.3	186.3	127.7	97.9	86.6	85.7
65°	388.3	202.9	135.5	135.5	181.9	152.2	105.8	83.9	73.5	72.6
67.5°	345.4	172.3	124.2	126.8	165.3	125.9	88.3	71.7	63.0	62.1
70°	292.9	147.8	113.7	118.0	146.9	104.9	74.3	60.3	53.3	52.5
72.5°	250.1	126.8	104.9	109.3	126.8	87.4	63.8	51.6	43.7	43.7
75°	195.9	109.3	96.2	99.7	107.6	71.7	53.3	42.8	35.9	35.0
77.5°	149.5	94.4	87.4	90.1	90.9	58.6	43.7	35.9	28.9	28.9
80°	106.7	81.3	80.4	80.4	75.2	49.0	37.6	28.9	23.6	22.7
82.5°	80.4	70.0	73.5	71.7	62.1	41.1	31.5	23.6	17.5	16.6
85°	63.8	61.2	66.5	63.8	50.7	35.0	26.2	17.5	12.2	11.4
87.5°	52.5	55.1	60.3	53.3	38.5	25.4	16.6	9.6	4.4	3.5
90°	48.1	51.6	54.2	44.6	30.6	18.4	10.5	4.4	0.9	0.0
92.5°	49.0	50.7	52.5	42.0	28.9	16.6	9.6	4.4	0.9	0.0
95°	51.6	51.6	50.7	41.1	28.0	16.6	9.6	4.4	0.9	0.0
97.5°	55.1	52.5	49.8	40.2	27.1	16.6	8.7	4.4	0.9	0.0
100°	58.6	53.3	49.8	39.3	27.1	15.7	8.7	4.4	0.9	0.0
102.5°	62.1	54.2	49.8	39.3	26.2	15.7	8.7	4.4	0.9	0.0
105°	64.7	54.2	49.0	39.3	26.2	15.7	8.7	4.4	0.9	0.0
107.5°	66.5	54.2	48.1	38.5	26.2	14.9	8.7	4.4	0.9	0.0



REPORT NUMBER: P290553
 CATALOG NUMBER: AXCS4ARL-C

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	67.3	53.3	46.3	37.6	25.4	14.9	7.9	3.5	0.9	0.0
112.5°	66.5	52.5	44.6	35.9	24.5	14.0	7.9	3.5	0.9	0.0
115°	63.8	50.7	42.8	34.1	23.6	14.0	7.9	3.5	0.9	0.0
117.5°	61.2	48.1	41.1	32.4	22.7	13.1	7.0	3.5	0.9	0.0
120°	58.6	45.5	38.5	30.6	21.0	12.2	7.0	3.5	0.0	0.0
122.5°	55.1	43.7	36.7	28.9	20.1	12.2	6.1	2.6	0.0	0.0
125°	51.6	41.1	35.0	28.0	19.2	11.4	6.1	2.6	0.0	0.0
127.5°	48.1	38.5	32.4	26.2	18.4	10.5	6.1	2.6	0.0	0.0
130°	44.6	36.7	30.6	24.5	17.5	9.6	5.2	2.6	0.0	0.0
132.5°	41.1	34.1	28.0	22.7	15.7	9.6	5.2	2.6	0.0	0.0
135°	37.6	31.5	26.2	21.0	14.9	8.7	4.4	1.7	0.0	0.0
137.5°	35.0	29.7	24.5	20.1	14.0	7.9	4.4	1.7	0.0	0.0
140°	32.4	27.1	22.7	18.4	13.1	7.0	4.4	1.7	0.0	0.0
142.5°	29.7	25.4	21.0	16.6	11.4	7.0	3.5	1.7	0.0	0.0
145°	27.1	22.7	19.2	14.9	10.5	6.1	3.5	1.7	0.0	0.0
147.5°	24.5	21.0	17.5	14.0	8.7	5.2	2.6	0.9	0.0	0.0
150°	21.9	19.2	15.7	12.2	7.9	4.4	2.6	0.9	0.0	0.0
152.5°	20.1	16.6	14.0	10.5	7.0	4.4	1.7	0.9	0.0	0.0
155°	17.5	14.9	12.2	9.6	6.1	3.5	1.7	0.9	0.0	0.0
157.5°	14.9	13.1	10.5	7.9	5.2	2.6	0.9	0.9	0.0	0.0
160°	13.1	11.4	9.6	7.0	4.4	2.6	0.9	0.0	0.0	0.0
162.5°	10.5	9.6	7.9	5.2	3.5	1.7	0.9	0.0	0.0	0.0
165°	8.7	7.9	6.1	4.4	2.6	1.7	0.9	0.0	0.0	0.0
167.5°	7.0	6.1	5.2	3.5	2.6	0.9	0.9	0.0	0.0	0.0
170°	6.1	5.2	4.4	2.6	1.7	0.9	0.9	0.0	0.0	0.0
172.5°	4.4	4.4	3.5	1.7	0.9	0.9	0.0	0.0	0.0	0.0
175°	4.4	3.5	1.7	1.7	0.9	0.9	0.0	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
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)