

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: P290569

Luminaire Tested: **AXCS5ARL-W-GRF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290569
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-095-9)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: AXCS5ARL-W-GRF
Description: 5ARL AXCENT SMALL LED WALLPACK WITH 3000K CCT AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5448.3 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 0.5' x H: 0.17')
IES Classification: Type IV - Short
BUG Rating: B1 - U4 - G3

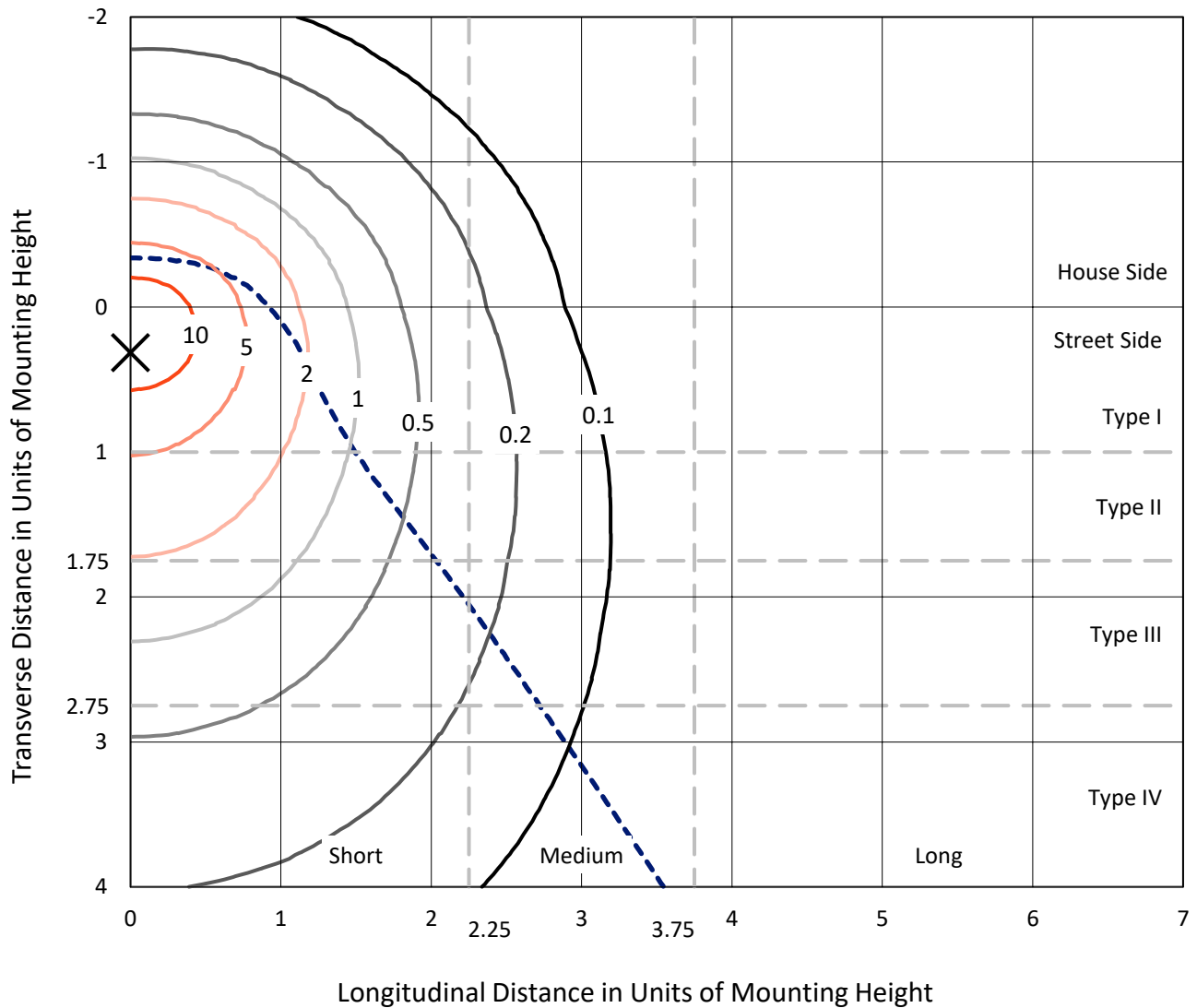
Input Watts (W): 51.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

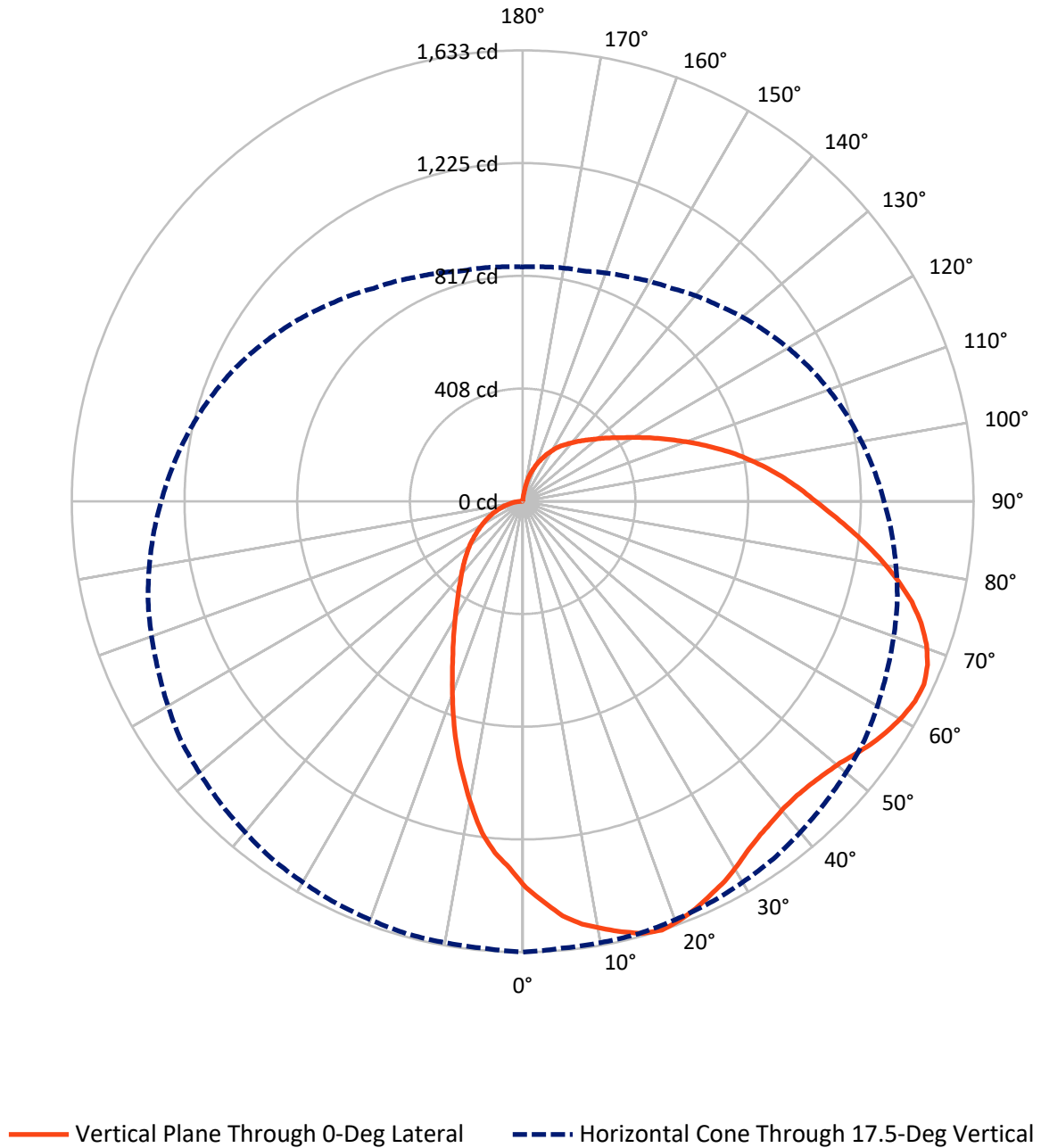
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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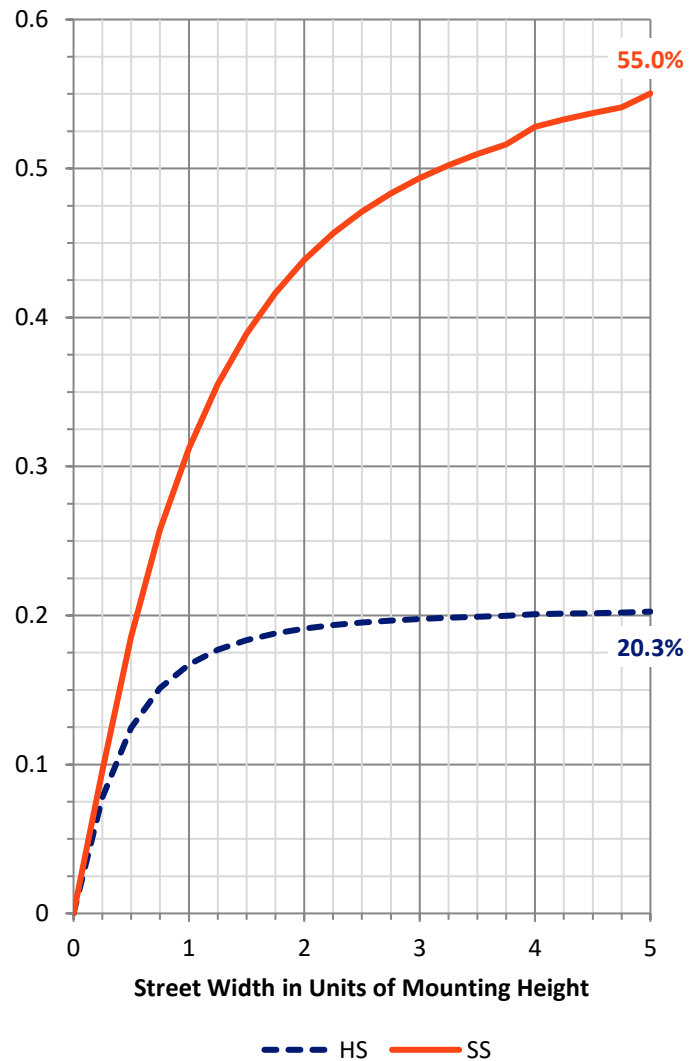
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1124.1	83.5	1207.7
	% Fixture	20.6	1.5	22.2
Street Side	Lumens	3260.9	979.7	4240.6
	% Fixture	59.9	18.0	77.8
Total	Lumens	4385.0	1063.3	5448.3
	% Fixture	80.5	19.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.0	2.4
10°-20°	368.0	6.8
20°-30°	526.2	9.7
30°-40°	602.0	11.0
40°-50°	624.9	11.5
50°-60°	622.1	11.4
60°-70°	593.9	10.9
70°-80°	515.1	9.5
80°-90°	400.8	7.4
90°-100°	317.9	5.8
100°-110°	250.4	4.6
110°-120°	183.6	3.4
120°-130°	130.1	2.4
130°-140°	88.8	1.6
140°-150°	55.3	1.0
150°-160°	27.9	0.5
160°-170°	8.8	0.2
170°-180°	0.4	0.0
0°-90°	4385.0	80.5
0°-180°	5448.3	100.0

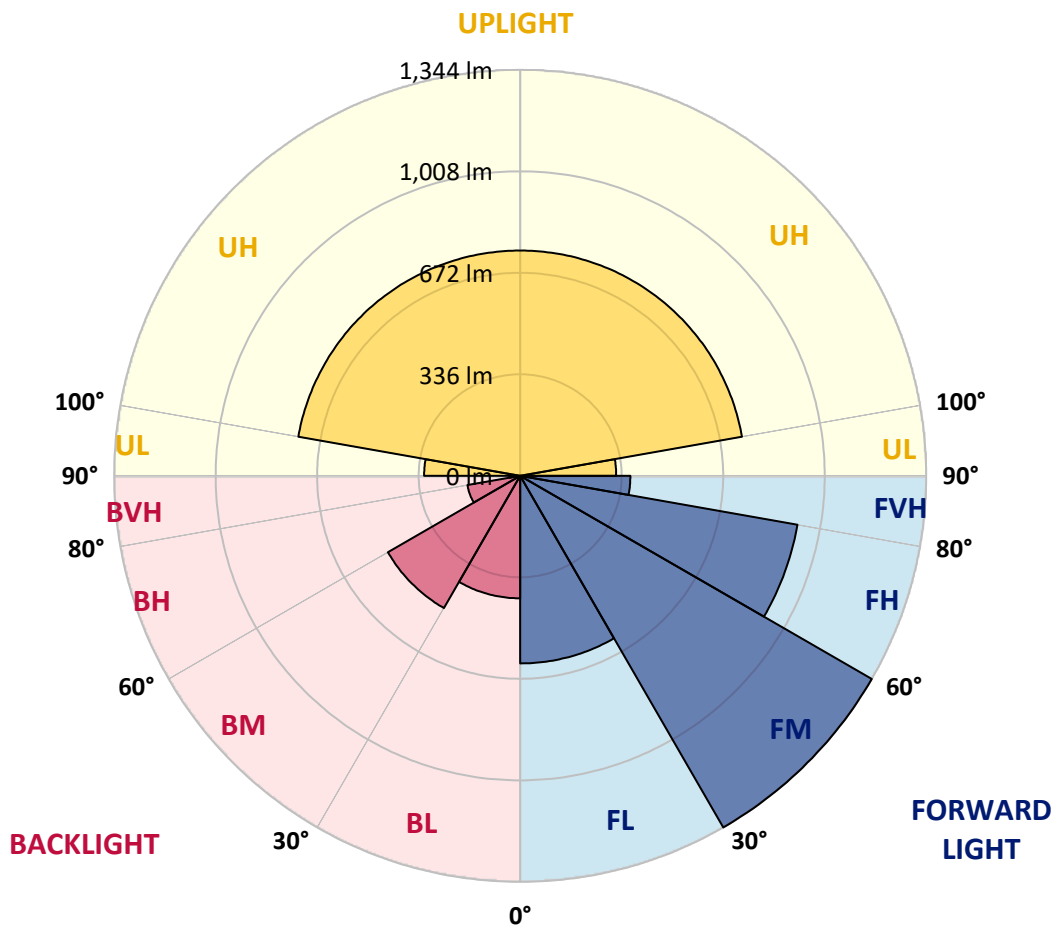


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	620.9	11.4			
FM (30°-60°)	1343.6	24.7			
FH (60°-80°)	931.8	17.1			G1/1800
FVH (80°-90°)	364.6	6.7			G3/500
BL (0°-30°)	405.4	7.4	B1/500		
BM (30°-60°)	505.4	9.3	B1/1000		
BH (60°-80°)	177.1	3.3	B1/500		G1/500
BVH (80°-90°)	36.2	0.7			G1/100
UL (90°-100°)	317.9	5.8		U3/500	
UH (100°-180°)	745.4	13.7		U4/1000	

BUG Rating: B1-U4-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1399.4	1399.4	1399.4	1399.4	1399.4	1399.4	1399.4	1399.4	1399.4	1399.4	1399.4
2.5°	1452.5	1446.3	1447.2	1443.7	1441.0	1434.8	1431.3	1422.4	1414.4	1407.4	1400.3
5°	1508.3	1498.5	1497.7	1492.3	1483.5	1472.9	1462.2	1446.3	1427.7	1411.8	1398.5
7.5°	1546.3	1538.4	1536.6	1530.4	1515.4	1501.2	1483.5	1460.5	1435.7	1408.3	1390.5
10°	1573.8	1565.8	1564.0	1552.5	1534.8	1513.6	1492.3	1462.2	1431.3	1394.1	1372.0
12.5°	1600.3	1594.1	1588.8	1576.4	1555.2	1529.5	1502.1	1464.0	1426.8	1379.0	1355.1
15°	1624.2	1618.9	1614.5	1598.6	1577.3	1544.6	1512.7	1465.8	1421.5	1365.8	1336.6
17.5°	1633.1	1625.1	1621.6	1604.8	1581.7	1547.2	1510.9	1456.0	1404.7	1341.9	1309.1
20°	1620.7	1614.5	1610.9	1595.9	1572.9	1537.5	1494.1	1435.7	1377.3	1310.9	1271.1
22.5°	1603.0	1598.6	1591.5	1580.9	1557.0	1521.5	1472.9	1411.8	1346.3	1272.8	1232.1
25°	1580.0	1576.4	1572.0	1560.5	1534.8	1499.4	1449.0	1383.5	1313.5	1233.0	1190.5
27.5°	1558.7	1552.5	1547.2	1534.8	1510.0	1471.1	1422.4	1353.4	1275.5	1187.9	1143.6
30°	1531.3	1526.0	1518.0	1503.8	1475.5	1436.6	1383.5	1314.4	1228.6	1139.2	1089.6
32.5°	1503.0	1500.3	1487.9	1472.0	1437.5	1396.7	1341.9	1266.6	1179.0	1085.2	1035.6
35°	1482.6	1479.1	1466.7	1441.0	1402.1	1355.1	1296.7	1220.6	1128.5	1030.3	979.0
37.5°	1469.3	1464.9	1449.0	1415.3	1368.4	1313.5	1250.7	1169.3	1076.3	974.5	922.3
40°	1458.7	1456.0	1434.8	1392.3	1335.7	1271.1	1201.1	1116.2	1021.4	917.0	865.7
42.5°	1456.9	1452.5	1427.7	1374.6	1306.5	1230.3	1148.9	1062.2	966.6	860.4	808.1
45°	1462.2	1456.9	1426.0	1361.3	1281.7	1191.4	1099.3	1009.1	907.3	802.8	751.5
47.5°	1473.8	1470.2	1432.2	1354.3	1258.7	1153.3	1050.7	953.3	852.4	745.3	693.9
50°	1489.7	1487.0	1441.9	1351.6	1236.5	1117.9	1005.5	900.2	798.4	691.3	640.8
52.5°	1515.4	1506.5	1456.9	1354.3	1224.1	1085.2	958.6	846.2	744.4	638.2	590.4
55°	1541.9	1531.3	1473.8	1358.7	1210.0	1056.0	915.2	796.6	692.2	586.8	539.9
57.5°	1563.2	1552.5	1490.6	1364.9	1198.5	1030.3	876.3	750.6	643.5	539.0	493.9
60°	1581.7	1572.9	1503.0	1366.7	1186.1	1000.2	837.3	704.6	596.6	493.9	450.5
62.5°	1595.0	1583.5	1513.6	1362.2	1171.9	972.8	801.0	661.2	551.4	451.4	408.0
65°	1597.7	1586.2	1509.2	1354.3	1155.1	943.6	765.6	621.4	509.8	410.7	369.1
67.5°	1581.7	1572.9	1495.9	1336.6	1133.0	916.1	729.4	583.3	470.0	373.5	332.8
70°	1551.6	1547.2	1466.7	1310.0	1102.0	883.4	693.9	546.1	431.1	334.6	297.4
72.5°	1509.2	1505.6	1426.0	1271.9	1069.2	848.8	658.5	512.5	394.8	300.9	263.8
75°	1456.0	1450.7	1373.7	1228.6	1025.9	809.9	622.3	477.1	359.4	266.4	231.9
77.5°	1390.5	1387.9	1316.2	1174.6	979.8	769.2	586.0	442.6	326.6	234.6	199.2
80°	1321.5	1319.7	1250.7	1117.9	929.4	728.5	550.6	410.7	294.8	200.9	171.7
82.5°	1249.8	1248.9	1183.4	1056.0	878.1	686.9	516.0	380.6	267.3	175.3	146.0
85°	1178.1	1176.3	1115.3	994.9	827.6	648.8	485.9	355.8	242.5	151.4	124.8
87.5°	1110.0	1108.2	1049.8	937.4	780.7	610.7	458.5	332.8	221.3	131.9	108.0
90°	1049.8	1047.1	993.1	886.0	740.0	582.4	439.0	317.8	208.9	122.1	100.0
92.5°	995.8	994.0	942.7	844.4	707.2	562.1	426.6	311.6	204.5	119.5	98.3
95°	941.8	938.2	891.3	801.0	674.5	541.7	414.2	303.6	200.0	117.7	96.5
97.5°	886.9	884.3	840.9	757.7	641.7	519.6	401.0	294.8	194.7	116.0	93.8
100°	832.0	830.3	792.2	716.1	609.0	495.7	385.0	285.0	188.5	113.3	91.2
102.5°	778.9	778.0	741.7	672.7	576.2	470.9	368.2	274.4	182.3	109.8	88.5
105°	723.2	724.0	690.4	628.4	540.8	444.3	351.4	262.9	177.0	107.1	85.9
107.5°	670.9	670.0	640.8	585.1	507.2	422.2	335.5	252.3	170.8	103.6	83.2
110°	619.6	617.8	593.9	544.4	476.2	398.3	318.6	242.5	164.6	100.0	79.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	573.6	572.7	550.6	506.3	446.1	375.3	302.7	231.9	158.4	95.6	76.1
115°	531.1	530.2	509.8	470.9	417.8	354.9	288.6	219.5	151.4	91.2	72.6
117.5°	491.3	488.6	472.7	439.0	391.2	335.5	274.4	209.8	145.2	87.6	69.0
120°	455.0	454.1	439.9	410.7	368.2	316.9	261.1	200.0	139.0	83.2	65.5
122.5°	422.2	424.0	410.7	384.1	346.1	300.1	248.7	191.2	132.8	78.8	62.8
125°	395.7	394.8	384.1	361.1	326.6	285.0	237.2	182.3	126.6	74.4	59.3
127.5°	370.9	369.1	359.4	339.0	308.0	270.9	225.7	173.5	120.4	70.8	55.8
130°	347.0	345.2	336.4	319.5	290.3	256.7	212.4	164.6	113.3	66.4	52.2
132.5°	326.6	325.7	317.8	301.8	276.2	244.3	201.8	155.8	107.1	62.0	48.7
135°	308.0	307.1	299.2	285.9	261.1	231.9	191.2	146.9	100.9	57.5	45.1
137.5°	290.3	290.3	283.2	270.0	247.8	216.9	180.6	138.1	94.7	53.1	42.5
140°	273.5	273.5	266.4	254.0	233.7	203.6	169.1	128.3	87.6	48.7	38.9
142.5°	257.6	258.5	251.4	239.9	216.9	190.3	157.6	119.5	81.4	44.3	35.4
145°	242.5	243.4	236.3	224.8	202.7	177.0	146.0	111.5	75.2	39.8	32.8
147.5°	226.6	226.6	220.4	207.1	187.6	163.8	134.5	102.7	69.0	35.4	29.2
150°	207.1	208.0	200.9	190.3	172.6	149.6	123.0	93.8	62.0	30.1	26.6
152.5°	189.4	189.4	183.2	172.6	155.8	135.4	111.5	84.1	55.8	25.7	23.0
155°	170.8	170.8	164.6	154.9	139.9	121.3	99.1	74.4	48.7	20.4	20.4
157.5°	152.2	152.2	146.9	137.2	123.9	108.0	87.6	64.6	41.6	17.7	16.8
160°	132.8	132.8	128.3	118.6	108.0	93.8	74.4	54.0	34.5	15.0	14.2
162.5°	113.3	113.3	109.8	101.8	91.2	77.9	59.3	43.4	27.4	12.4	11.5
165°	93.8	93.8	90.3	82.3	72.6	58.4	43.4	31.9	19.5	9.7	8.9
167.5°	71.7	71.7	69.0	60.2	45.1	38.1	31.0	21.2	12.4	7.1	7.1
170°	37.2	38.1	31.0	29.2	27.4	22.1	16.8	11.5	6.2	5.3	5.3
172.5°	0.9	0.9	4.4	6.2	8.9	9.7	8.0	5.3	3.5	3.5	3.5
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1399.4	1399.4	1399.4	1399.4	1399.4	1399.4	1399.4	1399.4	1399.4	1399.4
2.5°	1395.0	1382.6	1369.3	1358.7	1349.8	1345.4	1338.3	1331.2	1331.2	1329.5
5°	1388.8	1368.4	1348.1	1332.1	1314.4	1305.6	1291.4	1279.0	1279.0	1277.3
7.5°	1375.5	1348.1	1321.5	1294.1	1268.4	1249.8	1228.6	1210.0	1204.7	1210.0
10°	1353.4	1316.2	1281.7	1241.8	1208.2	1177.2	1148.0	1125.0	1115.3	1118.8
12.5°	1331.2	1287.0	1241.0	1191.4	1142.7	1102.9	1064.8	1039.1	1031.2	1027.6
15°	1309.1	1254.2	1197.6	1135.6	1076.3	1022.3	982.5	952.4	941.8	938.2
17.5°	1278.1	1214.4	1146.3	1073.7	1002.9	941.8	897.5	863.0	852.4	848.8
20°	1237.4	1166.6	1087.8	1005.5	925.9	859.5	807.2	776.3	760.3	759.4
22.5°	1191.4	1114.4	1028.5	937.4	850.6	783.3	728.5	697.5	681.6	678.9
25°	1146.3	1062.2	968.3	869.2	779.8	711.6	658.5	627.6	615.2	609.0
27.5°	1101.1	1011.7	909.0	804.6	714.3	647.0	597.5	567.4	554.1	550.6
30°	1048.0	955.1	848.8	744.4	652.3	587.7	541.7	513.4	501.0	498.3
32.5°	990.5	895.8	786.9	681.6	596.6	534.6	492.1	467.4	455.0	451.4
35°	934.7	839.1	729.4	625.8	547.0	489.5	449.6	426.6	416.0	412.5
37.5°	878.9	782.5	672.7	576.2	502.8	448.8	413.4	391.2	382.4	378.8
40°	821.4	725.8	621.4	529.3	461.2	414.2	381.5	360.3	351.4	349.6
42.5°	767.4	675.4	574.5	488.6	424.0	381.5	353.2	334.6	324.0	323.1
45°	709.0	622.3	527.5	448.8	390.3	351.4	326.6	309.8	300.1	299.2
47.5°	658.5	573.6	484.2	411.6	359.4	324.8	301.8	285.9	277.9	276.2
50°	605.4	526.7	447.0	379.7	331.0	300.9	278.8	263.8	255.8	254.9
52.5°	557.6	485.1	409.8	348.7	305.4	277.0	257.6	243.4	235.4	233.7
55°	510.7	443.5	375.3	320.4	280.6	254.0	236.3	223.9	213.3	211.5
57.5°	467.4	405.4	343.4	293.0	257.6	234.6	216.0	202.7	194.7	192.1
60°	425.8	369.1	313.3	268.2	235.4	212.4	196.5	184.1	176.1	173.5
62.5°	385.9	335.5	285.0	244.3	212.4	193.0	177.9	166.4	158.4	154.9
65°	347.9	302.7	258.5	221.3	192.1	174.4	159.3	148.7	139.9	138.1
67.5°	313.3	272.6	232.8	197.4	172.6	156.7	141.6	131.9	123.9	121.3
70°	280.6	243.4	206.2	177.0	154.0	138.1	125.7	115.1	107.1	104.4
72.5°	248.7	214.2	182.3	156.7	135.4	120.4	108.9	98.3	91.2	90.3
75°	215.1	187.6	160.2	136.3	118.6	103.6	92.9	83.2	76.1	75.2
77.5°	186.8	162.0	138.1	117.7	101.8	87.6	77.9	69.0	61.1	60.2
80°	160.2	139.0	118.6	100.9	85.9	73.5	63.7	54.9	47.8	46.9
82.5°	136.3	117.7	100.9	85.9	71.7	61.1	51.3	42.5	36.3	35.4
85°	116.8	100.9	86.7	72.6	60.2	49.6	40.7	32.8	25.7	25.7
87.5°	100.9	88.5	76.1	62.8	49.6	38.1	29.2	20.4	14.2	12.4
90°	93.8	79.7	65.5	52.2	38.1	26.6	17.7	9.7	3.5	2.7
92.5°	92.1	78.8	64.6	50.5	36.3	24.8	15.9	8.0	1.8	0.9
95°	90.3	77.0	63.7	49.6	36.3	24.8	15.9	7.1	1.8	0.9
97.5°	87.6	75.2	62.8	48.7	35.4	23.9	15.0	7.1	1.8	0.9
100°	85.9	73.5	61.1	47.8	35.4	23.9	15.0	7.1	1.8	0.9
102.5°	83.2	71.7	59.3	46.9	33.6	23.0	14.2	6.2	0.9	0.9
105°	80.5	69.9	58.4	46.0	33.6	22.1	13.3	6.2	0.9	0.9
107.5°	77.9	68.2	56.6	44.3	31.9	21.2	12.4	5.3	0.9	0.9
110°	75.2	65.5	54.9	43.4	31.0	20.4	12.4	5.3	0.9	0.9



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 CATALOG NUMBER: AXCS5ARL-W-GRF

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	71.7	62.8	52.2	41.6	30.1	19.5	11.5	4.4	0.0	0.0
115°	69.0	60.2	50.5	39.8	28.3	18.6	10.6	4.4	0.0	0.0
117.5°	65.5	57.5	48.7	38.1	27.4	17.7	9.7	3.5	0.0	0.0
120°	62.8	54.9	46.0	36.3	26.6	16.8	9.7	3.5	0.0	0.0
122.5°	59.3	52.2	44.3	34.5	24.8	15.9	8.9	2.7	0.0	0.0
125°	55.8	49.6	41.6	32.8	23.9	14.2	8.0	2.7	0.0	0.0
127.5°	53.1	46.9	39.8	31.0	22.1	13.3	7.1	1.8	0.0	0.0
130°	49.6	44.3	37.2	29.2	21.2	12.4	7.1	1.8	0.0	0.0
132.5°	46.0	41.6	35.4	27.4	19.5	11.5	6.2	1.8	0.0	0.0
135°	43.4	38.9	32.8	25.7	18.6	10.6	5.3	1.8	0.0	0.0
137.5°	40.7	36.3	31.0	23.9	16.8	9.7	4.4	1.8	0.0	0.0
140°	37.2	33.6	28.3	22.1	15.0	8.9	4.4	0.9	0.0	0.0
142.5°	33.6	30.1	25.7	20.4	14.2	8.0	3.5	0.9	0.0	0.0
145°	31.0	27.4	23.9	18.6	12.4	7.1	2.7	0.9	0.0	0.0
147.5°	28.3	25.7	21.2	16.8	11.5	6.2	2.7	0.9	0.0	0.0
150°	24.8	23.0	19.5	15.0	9.7	5.3	2.7	0.9	0.0	0.0
152.5°	22.1	20.4	16.8	13.3	8.9	4.4	1.8	0.9	0.0	0.0
155°	19.5	16.8	14.2	10.6	7.1	3.5	1.8	0.9	0.0	0.0
157.5°	16.8	15.0	12.4	8.9	6.2	2.7	1.8	0.9	0.0	0.0
160°	14.2	12.4	10.6	8.0	4.4	2.7	0.9	0.9	0.0	0.0
162.5°	11.5	9.7	8.9	6.2	3.5	2.7	0.9	0.9	0.0	0.0
165°	8.9	8.0	6.2	4.4	2.7	1.8	0.9	0.0	0.0	0.0
167.5°	7.1	6.2	5.3	3.5	2.7	1.8	0.9	0.0	0.0	0.0
170°	5.3	4.4	3.5	2.7	2.7	1.8	0.9	0.0	0.0	0.0
172.5°	3.5	2.7	2.7	2.7	1.8	0.9	0.9	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	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)