

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: P289640

Luminaire Tested: **AXCS2ARL-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1811-024-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: AXCS2ARL-W
Description: 2ARL AXCENT SMALL LED WALLPACK WITH 3000K CCT AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2295.2 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 0.5' x H: 0.17')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U3 - G2

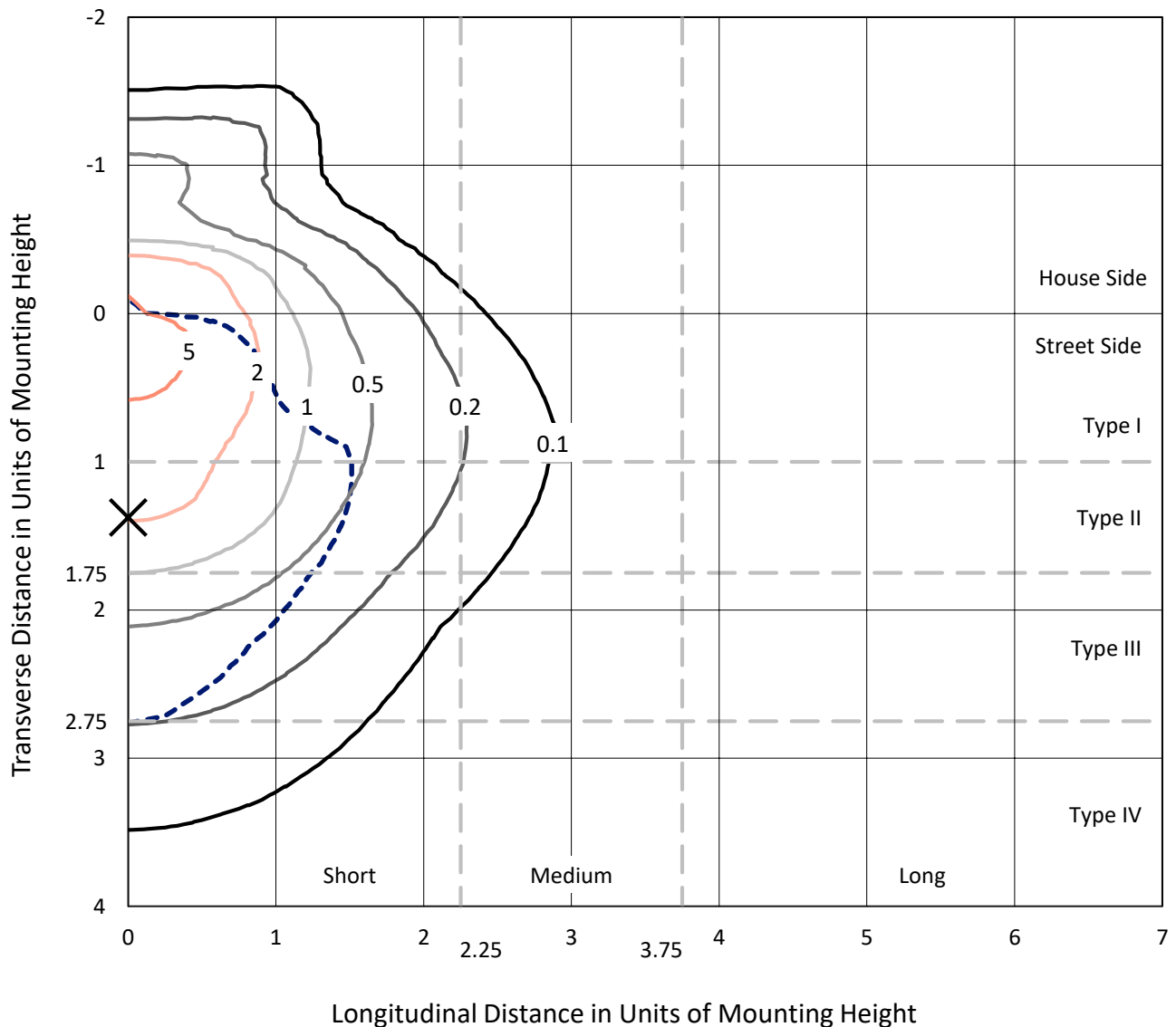
Input Watts (W): 20.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P289640
 CATALOG NUMBER: AXCS2ARL-W

Iso-Footcandle Lines of Horizontal Illumination

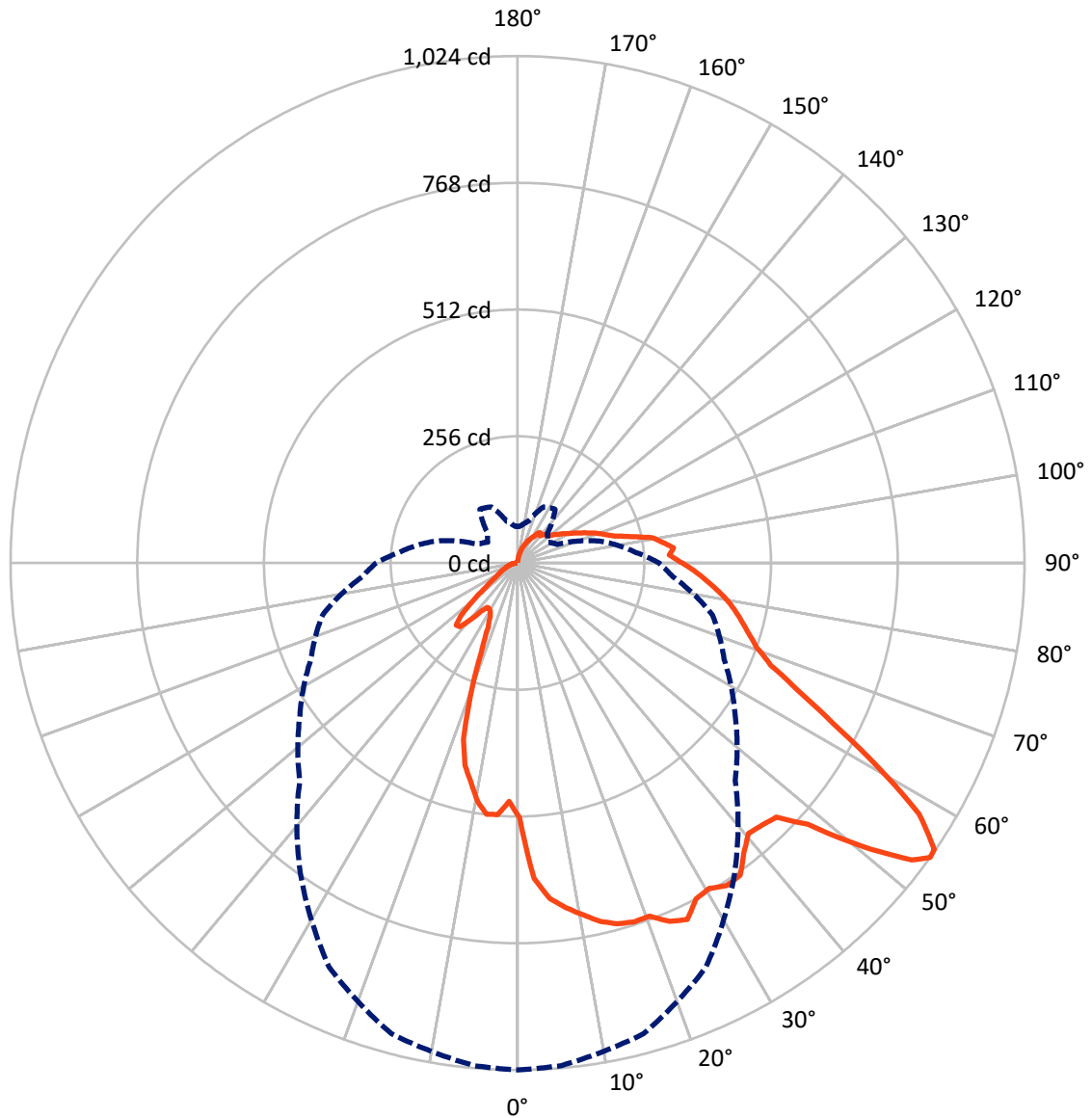
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P289640
CATALOG NUMBER: AXCS2ARL-W

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P289640
 CATALOG NUMBER: AXCS2ARL-W

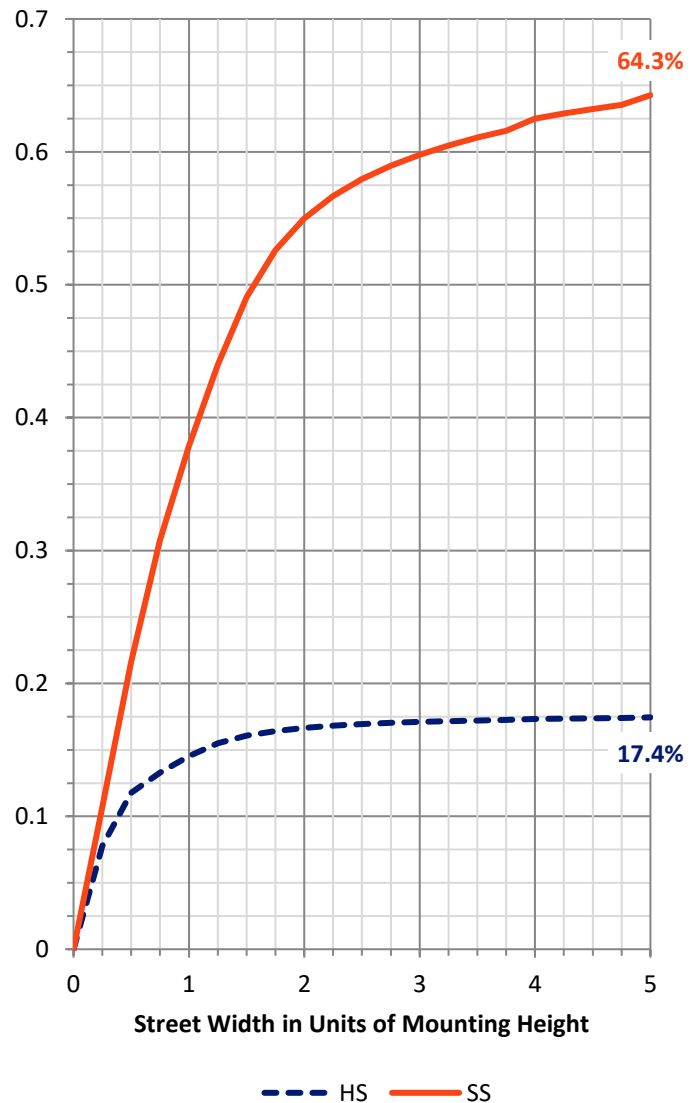
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	409.0	27.0	436.0
	% Fixture	17.8	1.2	19.0
Street Side	Lumens	1561.6	297.6	1859.2
	% Fixture	68.0	13.0	81.0
Total	Lumens	1970.6	324.6	2295.2
	% Fixture	85.9	14.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	2.4
10°-20°	162.0	7.1
20°-30°	233.7	10.2
30°-40°	274.2	11.9
40°-50°	301.6	13.1
50°-60°	341.6	14.9
60°-70°	270.2	11.8
70°-80°	191.8	8.4
80°-90°	141.0	6.1
90°-100°	107.3	4.7
100°-110°	76.0	3.3
110°-120°	52.8	2.3
120°-130°	36.2	1.6
130°-140°	25.2	1.1
140°-150°	16.4	0.7
150°-160°	8.0	0.4
160°-170°	2.5	0.1
170°-180°	0.2	0.0
0°-90°	1970.6	85.9
0°-180°	2295.2	100.0



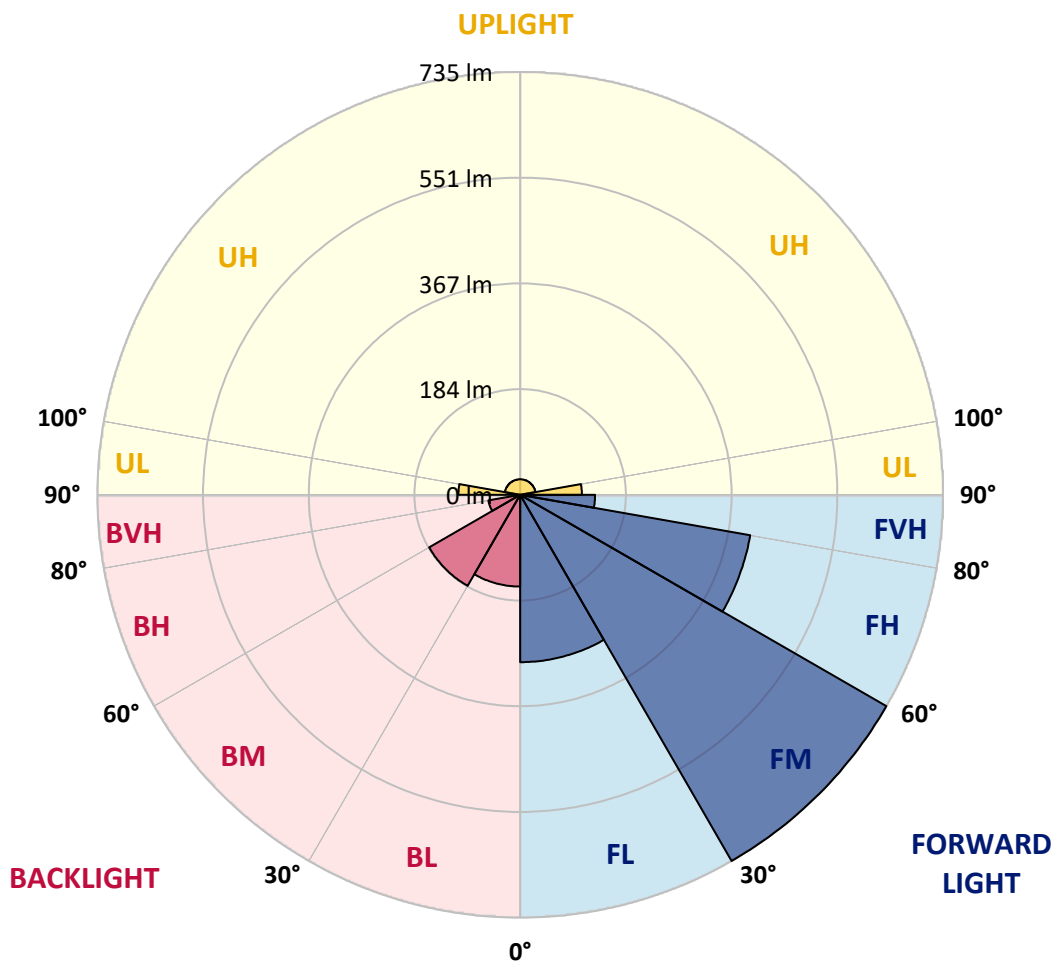
REPORT NUMBER: P289640
 CATALOG NUMBER: AXCS2ARL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	290.8	12.7			
FM	(30°-60°)	734.7	32.0			
FH	(60°-80°)	405.9	17.7			G0/660
FVH	(80°-90°)	130.2	5.7			G2/225
BL	(0°-30°)	159.4	6.9	B1/500		
BM	(30°-60°)	182.7	8.0	B0/220		
BH	(60°-80°)	56.1	2.4	B0/110		G0/110
BVH	(80°-90°)	10.8	0.5			G1/100
UL	(90°-100°)	107.3	4.7		U3/500	
UH	(100°-180°)	27.0	1.2		U2/50	

BUG Rating: B1-U3-G2

Type III Short





REPORT NUMBER: P289640
 CATALOG NUMBER: AXCS2ARL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	514.7	514.7	514.7	514.7	514.7	514.7	514.7	514.7	514.7	514.7	514.7
2.5°	638.1	635.6	633.1	629.7	618.7	608.6	590.0	573.1	551.9	524.9	513.9
5°	681.3	677.9	677.0	674.5	668.6	660.1	646.6	622.9	584.9	534.2	513.1
7.5°	703.2	701.5	699.0	696.5	687.2	680.4	670.3	650.0	611.9	543.5	511.4
10°	722.7	721.0	716.8	711.7	703.2	692.2	678.7	661.8	630.5	553.6	509.7
12.5°	743.0	742.1	737.9	728.6	716.8	702.4	686.3	664.3	638.1	560.4	507.1
15°	756.5	755.6	752.2	745.5	732.8	714.2	692.2	667.7	637.3	568.0	505.4
17.5°	762.4	761.5	759.0	754.8	742.1	723.5	698.2	667.7	634.8	571.4	500.4
20°	761.5	760.7	756.5	752.2	743.8	729.4	703.2	666.0	628.8	572.2	494.5
22.5°	786.9	786.1	773.4	753.1	739.6	726.9	704.9	666.9	620.4	569.7	490.2
25°	797.9	797.0	796.2	780.1	742.1	718.4	701.5	664.3	611.9	561.2	484.3
27.5°	768.3	768.3	771.7	777.6	762.4	713.4	692.2	660.1	602.6	550.2	476.7
30°	763.2	763.2	756.5	748.9	755.6	721.8	678.7	651.7	591.7	533.3	465.7
32.5°	776.8	776.8	766.6	746.3	729.4	722.7	667.7	638.1	579.0	513.9	453.0
35°	775.1	774.2	770.8	753.9	721.8	699.0	661.8	617.0	562.9	488.5	437.0
37.5°	743.0	741.3	743.0	744.6	722.7	681.3	648.3	595.9	542.6	464.0	417.5
40°	718.4	716.8	710.8	709.1	709.1	672.8	624.6	574.8	520.7	440.4	398.1
42.5°	724.4	723.5	708.3	688.0	678.7	657.6	599.3	552.8	494.5	414.2	386.3
45°	732.8	734.5	723.5	696.5	658.4	629.7	573.9	523.2	475.0	398.1	360.1
47.5°	788.6	793.7	761.5	719.3	664.3	606.9	549.4	502.9	459.0	372.7	341.5
50°	898.5	901.9	849.5	776.8	691.4	601.8	531.6	491.1	427.7	357.5	314.4
52.5°	997.4	996.5	955.1	861.3	736.2	610.3	531.6	469.1	422.6	333.9	294.1
54°	1024.4	1019.3	984.7	901.0	764.9	622.1	536.7	460.6	408.2	314.4	285.7
55°	1021.9	1016.0	986.4	913.7	777.6	630.5	536.7	459.8	386.3	300.9	271.3
57.5°	956.8	953.4	928.9	884.1	779.3	634.8	536.7	453.9	377.0	289.1	247.7
60°	835.9	827.5	808.9	782.7	720.1	604.3	546.9	454.7	368.5	272.2	235.8
62.5°	716.8	713.4	688.9	669.4	619.5	551.9	492.8	437.8	361.8	258.6	218.1
65°	623.8	611.9	591.7	560.4	512.2	474.2	444.6	429.4	344.9	237.5	198.6
67.5°	551.9	549.4	525.7	486.0	433.6	404.9	413.3	400.6	334.7	229.1	179.2
70°	513.1	509.7	485.2	438.7	379.5	342.3	348.2	342.3	321.2	218.9	161.4
72.5°	488.5	485.2	458.1	406.6	345.7	292.4	308.5	326.3	310.2	204.5	141.2
75°	467.4	463.2	434.4	382.9	320.3	267.1	272.2	297.5	284.8	198.6	123.4
77.5°	447.1	442.1	413.3	362.6	304.3	249.3	239.2	235.8	249.3	180.9	105.7
80°	425.1	421.8	393.9	344.9	291.6	232.4	228.2	235.0	212.2	148.8	86.2
82.5°	399.8	397.3	372.7	327.1	277.2	218.9	212.2	202.9	193.6	118.3	56.6
85°	376.1	374.4	351.6	309.4	262.9	207.9	199.5	190.2	173.3	95.5	36.3
87.5°	352.5	349.1	327.1	291.6	248.5	196.1	180.9	173.3	147.1	62.5	29.6
90°	327.9	326.3	307.7	274.7	235.8	188.5	177.5	157.2	130.2	51.6	24.5
92.5°	306.8	305.1	288.2	258.6	225.7	179.2	165.7	142.0	108.2	40.6	22.8
95°	317.0	315.3	297.5	265.4	226.5	180.0	153.8	131.0	93.8	35.5	22.8
97.5°	296.7	295.0	280.6	253.6	218.9	175.0	142.8	115.0	76.1	33.0	24.5
100°	278.9	274.7	262.0	239.2	207.9	161.4	131.0	98.0	65.9	33.8	26.2
102.5°	235.8	234.1	225.7	206.2	176.7	142.0	117.5	88.7	61.7	35.5	27.9
105°	203.7	202.9	196.9	184.3	158.9	128.5	105.7	82.8	58.3	36.3	29.6
107.5°	185.9	185.1	178.3	166.5	146.2	121.7	100.6	79.5	54.9	38.0	30.4



REPORT NUMBER: P289640
 CATALOG NUMBER: AXCS2ARL-W

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	171.6	170.7	164.8	153.0	133.5	115.8	97.2	74.4	52.4	38.0	31.3
112.5°	155.5	154.7	150.4	141.2	124.2	109.0	91.3	68.5	50.7	38.0	30.4
115°	141.2	140.3	136.1	128.5	115.0	101.4	84.5	63.4	49.9	37.2	29.6
117.5°	128.5	127.6	124.2	117.5	105.7	93.8	77.8	60.0	49.0	35.5	28.7
120°	116.6	115.8	113.3	106.5	97.2	87.9	72.7	57.5	47.3	33.8	27.0
122.5°	109.0	108.2	104.8	99.7	90.4	82.0	68.5	57.5	45.6	32.1	25.4
125°	98.9	98.0	96.4	91.3	85.4	77.8	65.9	54.9	43.1	29.6	23.7
127.5°	93.0	93.0	90.4	85.4	82.0	73.5	63.4	52.4	40.6	27.0	21.1
130°	84.5	83.7	82.8	82.8	77.8	69.3	61.7	49.9	38.0	24.5	19.4
132.5°	81.1	82.0	82.0	79.5	73.5	66.8	58.3	46.5	35.5	22.8	17.7
135°	81.1	81.1	78.6	76.1	70.2	67.6	54.9	43.1	33.8	20.3	16.9
137.5°	76.9	76.1	74.4	71.0	72.7	63.4	51.6	40.6	31.3	18.6	15.2
140°	71.0	71.0	70.2	75.2	70.2	57.5	48.2	38.0	28.7	16.9	13.5
142.5°	76.9	78.6	81.1	72.7	61.7	54.1	44.8	36.3	26.2	14.4	12.7
145°	73.5	73.5	70.2	62.5	58.3	49.9	42.3	33.8	24.5	12.7	11.0
147.5°	63.4	63.4	61.7	59.2	52.4	47.3	38.9	31.3	22.0	11.0	10.1
150°	59.2	59.2	55.8	52.4	49.9	42.3	35.5	27.9	19.4	9.3	9.3
152.5°	51.6	51.6	51.6	49.9	44.0	38.0	33.0	24.5	16.9	8.5	8.5
155°	49.0	49.0	46.5	42.3	38.0	33.8	27.9	21.1	14.4	7.6	6.8
157.5°	41.4	40.6	39.7	37.2	34.7	30.4	24.5	18.6	12.7	6.8	5.9
160°	36.3	36.3	34.7	33.0	30.4	25.4	20.3	15.2	10.1	5.1	5.1
162.5°	30.4	30.4	29.6	27.9	24.5	21.1	16.9	12.7	8.5	4.2	4.2
165°	25.4	24.5	23.7	22.0	19.4	16.9	12.7	10.1	5.9	3.4	3.4
167.5°	18.6	18.6	17.7	16.9	15.2	11.0	9.3	6.8	3.4	3.4	2.5
170°	13.5	13.5	12.7	10.1	8.5	7.6	5.9	4.2	2.5	2.5	2.5
172.5°	5.1	5.1	5.1	5.1	4.2	3.4	3.4	1.7	1.7	1.7	1.7
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



REPORT NUMBER: P289640
 CATALOG NUMBER: AXCS2ARL-W

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	514.7	514.7	514.7	514.7	514.7	514.7	514.7	514.7	514.7	514.7
2.5°	505.4	491.1	481.8	476.7	475.9	476.7	478.4	480.9	480.9	481.8
5°	495.3	477.6	477.6	484.3	494.5	501.2	506.3	508.8	510.5	509.7
7.5°	486.8	474.2	487.7	502.9	511.4	513.9	513.1	513.1	511.4	511.4
10°	478.4	474.2	497.0	509.7	508.8	502.1	496.1	489.4	486.0	488.5
12.5°	469.9	475.9	499.5	502.9	493.6	475.9	464.9	458.1	453.9	452.2
15°	463.2	477.6	498.7	491.1	465.7	448.0	436.1	428.5	422.6	422.6
17.5°	455.6	477.6	487.7	465.7	440.4	420.9	404.9	384.6	377.0	372.7
20°	447.1	472.5	474.2	441.2	415.0	385.4	344.9	306.8	289.1	283.2
22.5°	439.5	464.9	452.2	417.5	383.7	325.4	261.2	218.1	196.1	196.9
25°	430.2	453.0	426.8	392.2	333.0	243.4	183.4	153.8	145.4	143.7
27.5°	420.1	438.7	405.7	359.2	268.8	178.3	142.8	128.5	123.4	121.7
30°	408.2	421.8	381.2	314.4	199.5	140.3	122.6	115.0	112.4	111.6
32.5°	393.9	400.6	354.1	260.3	158.1	121.7	111.6	108.2	107.3	108.2
35°	378.7	375.3	323.7	204.5	129.3	109.9	106.5	106.5	109.0	109.0
37.5°	360.1	348.2	286.5	161.4	114.1	104.0	104.8	112.4	120.9	121.7
40°	342.3	322.0	244.3	131.9	103.1	99.7	109.0	130.2	146.2	147.9
42.5°	327.1	297.5	200.3	113.3	96.4	99.7	123.4	154.7	171.6	173.3
45°	314.4	274.7	164.8	101.4	91.3	102.3	142.8	172.4	176.7	176.7
47.5°	288.2	243.4	134.4	90.4	87.9	110.7	158.1	167.4	158.1	157.2
50°	278.9	218.1	113.3	82.0	85.4	121.7	157.2	142.8	121.7	120.0
52.5°	244.3	185.9	96.4	76.9	85.4	131.0	142.0	105.7	87.9	87.1
54°	240.9	170.7	88.7	73.5	85.4	132.7	125.1	87.9	75.2	73.5
55°	240.0	161.4	83.7	71.8	86.2	131.9	114.1	79.5	66.8	66.8
57.5°	205.4	135.2	74.4	67.6	87.9	121.7	87.9	63.4	54.9	53.2
60°	188.5	115.8	66.8	63.4	88.7	106.5	67.6	51.6	44.8	44.0
62.5°	170.7	97.2	60.9	60.0	87.1	87.1	56.6	43.1	38.0	38.0
65°	147.1	82.0	54.9	56.6	83.7	69.3	46.5	37.2	33.0	33.0
67.5°	134.4	69.3	50.7	53.2	76.9	55.8	39.7	31.3	27.9	27.9
70°	115.0	59.2	46.5	49.9	68.5	47.3	33.0	27.0	24.5	23.7
72.5°	101.4	50.7	43.1	46.5	59.2	38.9	28.7	23.7	20.3	20.3
75°	80.3	44.8	39.7	43.1	50.7	31.3	23.7	19.4	16.9	16.9
77.5°	56.6	38.0	36.3	38.9	41.4	26.2	20.3	16.9	14.4	14.4
80°	42.3	33.0	33.8	35.5	34.7	22.0	16.9	14.4	11.8	11.8
82.5°	32.1	28.7	30.4	31.3	28.7	18.6	14.4	11.8	9.3	9.3
85°	24.5	25.4	27.9	27.0	22.0	16.1	12.7	9.3	6.8	6.8
87.5°	21.1	22.8	25.4	23.7	16.9	11.8	8.5	5.9	4.2	3.4
90°	19.4	21.1	22.8	19.4	13.5	9.3	5.1	3.4	1.7	0.8
92.5°	19.4	20.3	21.1	17.7	11.8	7.6	5.1	2.5	0.8	0.8
95°	20.3	20.3	21.1	16.9	11.0	6.8	4.2	1.7	0.8	0.0
97.5°	22.0	21.1	20.3	16.1	11.0	6.8	3.4	1.7	0.8	0.0
100°	23.7	21.1	20.3	16.1	11.0	6.8	3.4	1.7	0.8	0.0
102.5°	24.5	22.0	20.3	16.1	11.0	6.8	3.4	1.7	0.8	0.0
105°	25.4	22.0	19.4	15.2	10.1	6.8	3.4	1.7	0.8	0.0
107.5°	26.2	21.1	19.4	15.2	10.1	5.9	3.4	1.7	0.8	0.0



REPORT NUMBER: P289640
 CATALOG NUMBER: AXCS2ARL-W

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	26.2	21.1	18.6	14.4	10.1	5.9	3.4	1.7	0.8	0.0
112.5°	26.2	20.3	17.7	14.4	10.1	5.9	3.4	1.7	0.8	0.0
115°	25.4	19.4	16.9	13.5	9.3	5.9	3.4	1.7	0.8	0.0
117.5°	24.5	18.6	16.1	12.7	9.3	5.9	3.4	1.7	0.8	0.0
120°	22.8	17.7	15.2	12.7	8.5	5.1	2.5	1.7	0.0	0.0
122.5°	22.0	16.9	14.4	11.8	8.5	5.1	2.5	1.7	0.0	0.0
125°	20.3	16.1	13.5	11.0	7.6	5.1	2.5	1.7	0.0	0.0
127.5°	18.6	15.2	12.7	10.1	7.6	4.2	2.5	1.7	0.0	0.0
130°	17.7	14.4	11.8	10.1	6.8	4.2	2.5	1.7	0.0	0.0
132.5°	16.1	13.5	11.0	9.3	6.8	4.2	2.5	1.7	0.0	0.0
135°	15.2	12.7	10.1	8.5	5.9	3.4	2.5	1.7	0.0	0.0
137.5°	13.5	11.8	10.1	7.6	5.9	3.4	1.7	0.8	0.0	0.0
140°	12.7	11.0	9.3	6.8	5.1	3.4	1.7	0.8	0.0	0.0
142.5°	11.8	10.1	8.5	6.8	4.2	2.5	1.7	0.8	0.0	0.0
145°	11.0	9.3	7.6	5.9	4.2	2.5	1.7	0.8	0.0	0.0
147.5°	9.3	8.5	6.8	5.1	3.4	2.5	1.7	0.8	0.0	0.0
150°	8.5	7.6	5.9	5.1	3.4	1.7	0.8	0.8	0.0	0.0
152.5°	7.6	6.8	5.9	4.2	3.4	1.7	0.8	0.8	0.0	0.0
155°	6.8	5.9	5.1	3.4	2.5	1.7	0.8	0.0	0.0	0.0
157.5°	5.9	5.1	4.2	3.4	2.5	1.7	0.8	0.0	0.0	0.0
160°	5.1	4.2	3.4	2.5	1.7	0.8	0.8	0.0	0.0	0.0
162.5°	4.2	3.4	3.4	2.5	1.7	0.8	0.0	0.0	0.0	0.0
165°	3.4	3.4	2.5	1.7	1.7	0.8	0.0	0.0	0.0	0.0
167.5°	2.5	2.5	2.5	1.7	0.8	0.8	0.0	0.0	0.0	0.0
170°	2.5	2.5	1.7	1.7	0.8	0.0	0.0	0.0	0.0	0.0
172.5°	1.7	1.7	1.7	0.8	0.8	0.0	0.0	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)