

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: P290549

Luminaire Tested: **AXCS3ARL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290549
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: AXCS3ARL
Description: 3ARL AXCENT SMALL LED WALLPACK WITH 4000K CCT AND 70 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3704 lumens
Efficiency: N/A
Efficacy: 139.2 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 - U3 - G2

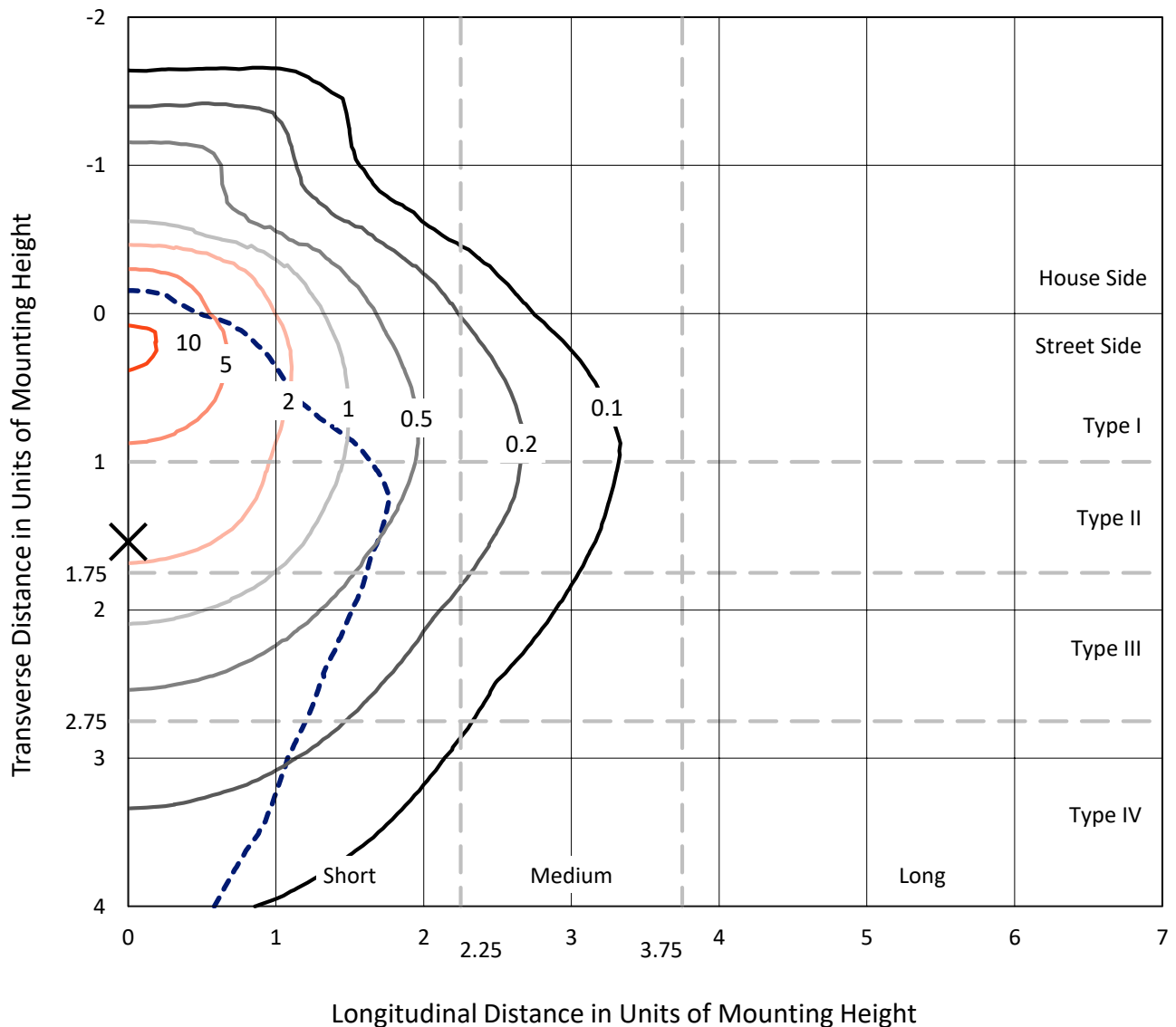
Input Watts (W): 26.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P290549
 CATALOG NUMBER: AXCS3ARL

Iso-Footcandle Lines of Horizontal Illumination

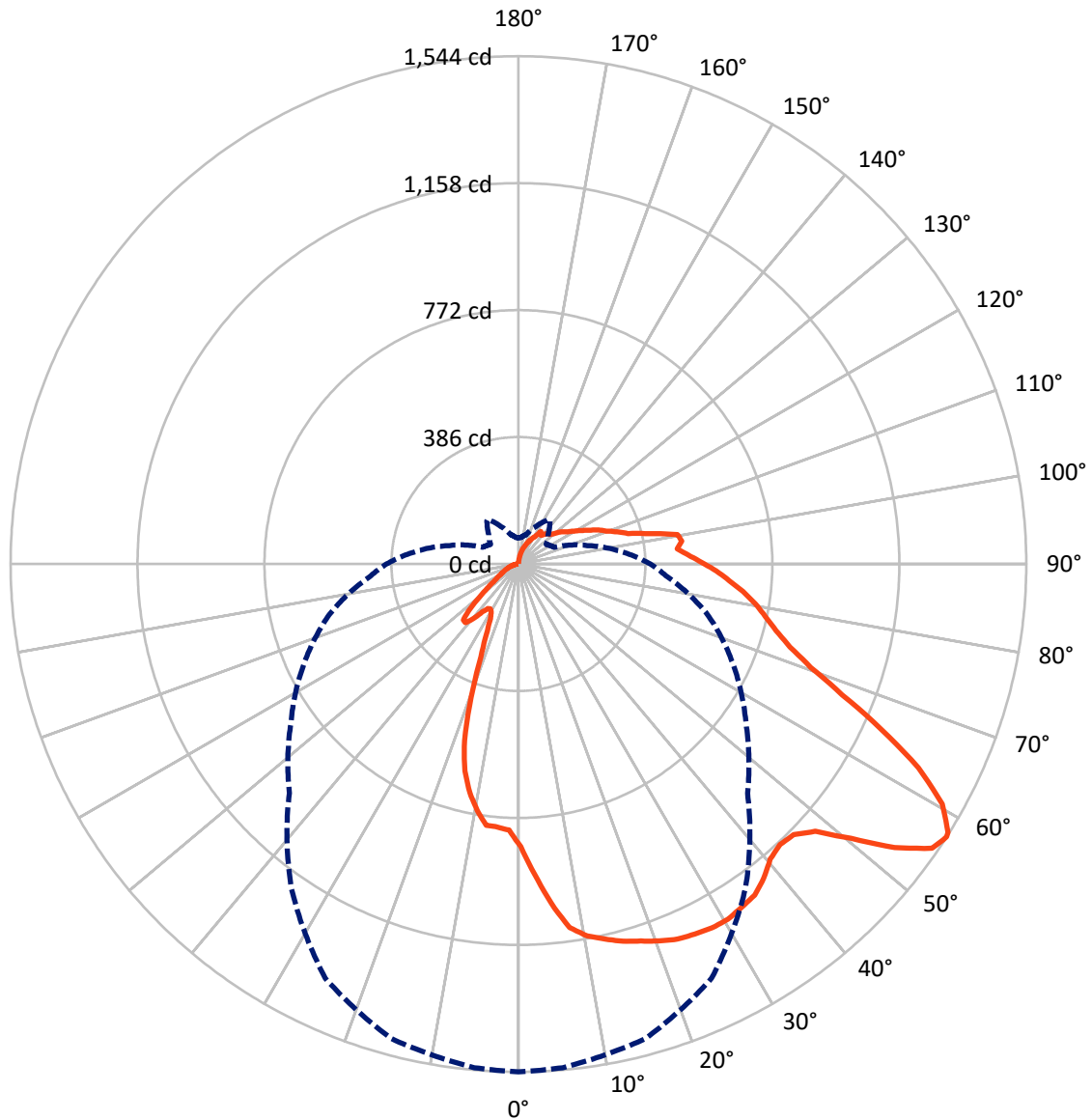
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.8 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P290549
CATALOG NUMBER: AXCS3ARL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P290549
 CATALOG NUMBER: AXCS3ARL

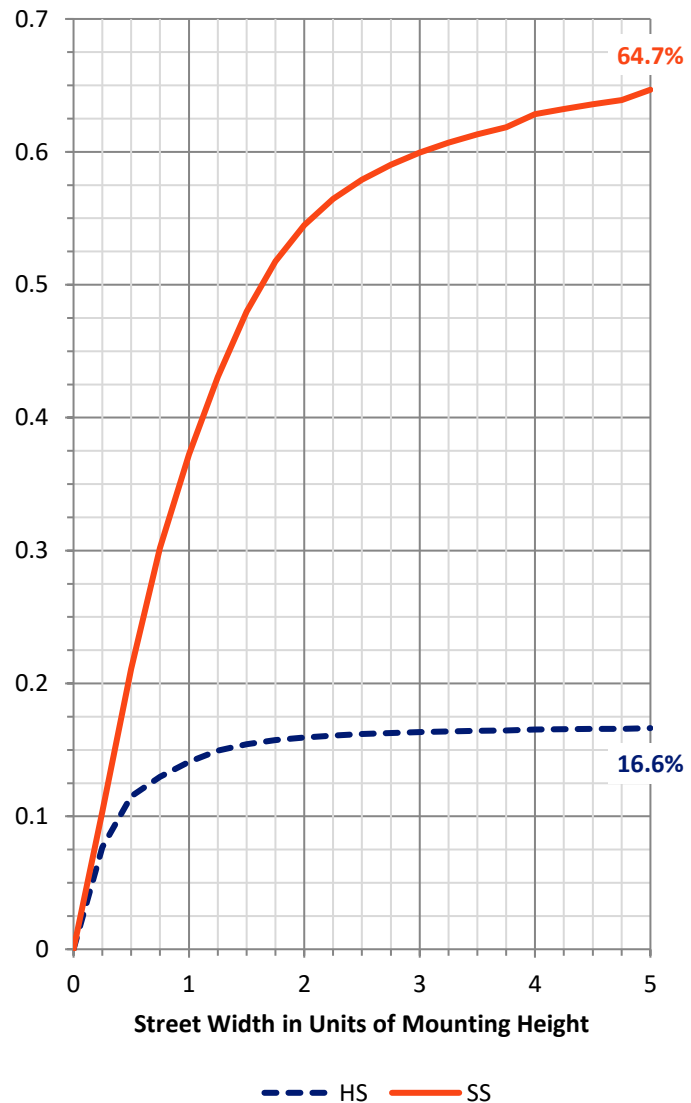
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	628.7	42.3	671.0
	% Fixture	17.0	1.1	18.1
Street Side	Lumens	2540.7	492.3	3033.0
	% Fixture	68.6	13.3	81.9
Total	Lumens	3169.5	534.5	3704.0
	% Fixture	85.6	14.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	2.3
10°-20°	254.7	6.9
20°-30°	368.9	10.0
30°-40°	436.5	11.8
40°-50°	474.4	12.8
50°-60°	526.4	14.2
60°-70°	467.5	12.6
70°-80°	323.5	8.7
80°-90°	231.7	6.3
90°-100°	175.8	4.7
100°-110°	127.6	3.4
110°-120°	87.6	2.4
120°-130°	59.6	1.6
130°-140°	40.4	1.1
140°-150°	26.0	0.7
150°-160°	13.0	0.4
160°-170°	4.3	0.1
170°-180°	0.3	0.0
0°-90°	3169.5	85.6
0°-180°	3704.0	100.0



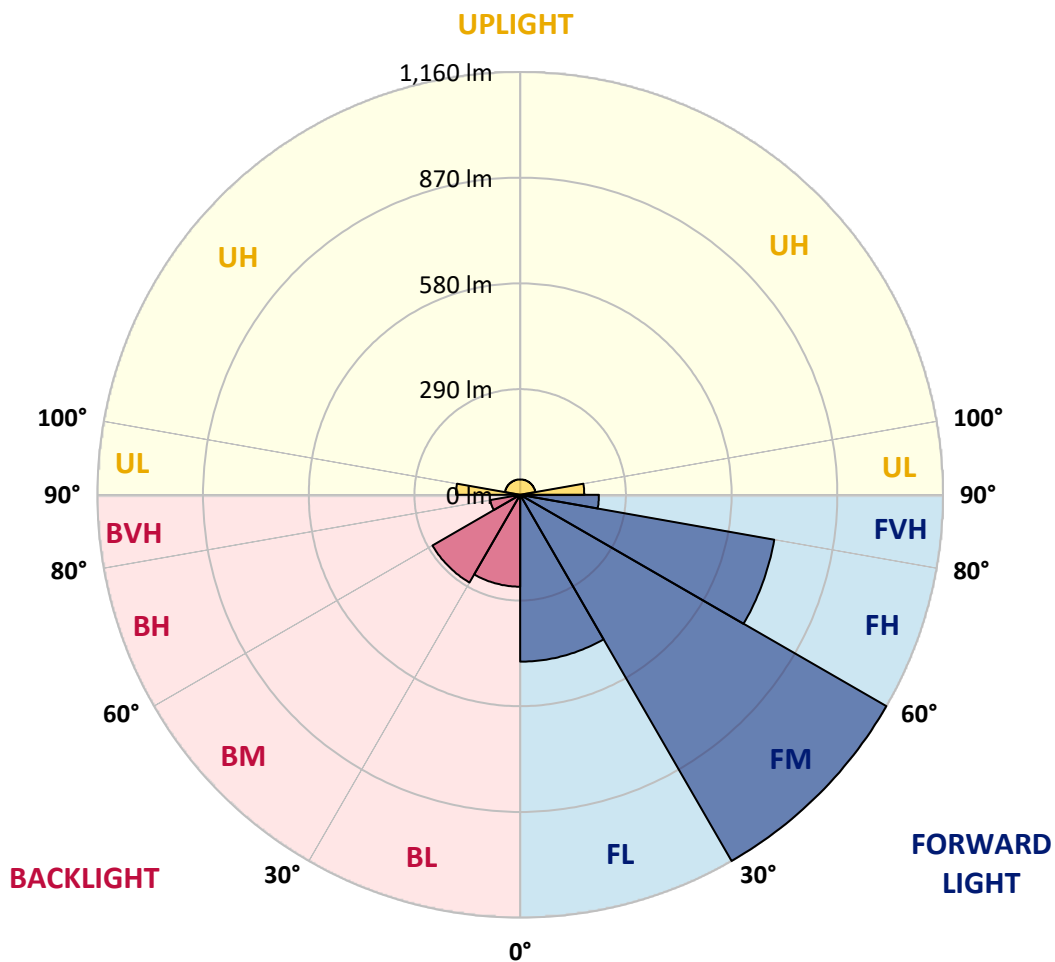
REPORT NUMBER: P290549
 CATALOG NUMBER: AXCS3ARL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	457.5	12.4			
FM (30°-60°)	1159.7	31.3			
FH (60°-80°)	707.6	19.1			G1/1800
FVH (80°-90°)	216.0	5.8			G2/225
BL (0°-30°)	252.0	6.8	B1/500		
BM (30°-60°)	277.6	7.5	B1/1000		
BH (60°-80°)	83.4	2.3	B0/110		G0/110
BVH (80°-90°)	15.7	0.4			G1/100
UL (90°-100°)	175.8	4.7		U3/500	
UH (100°-180°)	42.3	1.1		U2/50	

BUG Rating: B1-U3-G2

Type IV Short





REPORT NUMBER: P290549
 CATALOG NUMBER: AXCS3ARL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2
2.5°	944.9	937.2	938.3	932.8	923.9	916.7	905.1	891.8	878.6	861.4	853.7
5°	1035.6	1028.4	1021.2	1009.6	989.7	970.4	953.2	923.9	896.3	865.3	850.9
7.5°	1116.3	1109.7	1104.7	1091.4	1069.3	1037.8	993.6	954.9	912.3	867.0	847.1
10°	1150.0	1147.3	1143.4	1135.7	1119.6	1094.2	1048.3	985.3	927.8	867.5	841.5
12.5°	1170.5	1167.7	1164.4	1155.0	1141.8	1121.9	1088.1	1019.6	939.4	866.4	832.7
15°	1190.4	1188.2	1182.1	1171.6	1153.9	1133.5	1104.2	1046.1	952.7	862.5	824.4
17.5°	1205.3	1204.2	1198.7	1185.4	1166.1	1141.2	1109.7	1060.5	965.4	858.7	813.9
20°	1223.6	1222.5	1213.1	1195.9	1174.4	1145.6	1110.2	1062.1	973.1	852.0	801.7
22.5°	1239.1	1238.5	1229.7	1212.5	1181.6	1147.3	1108.0	1057.7	975.9	844.3	787.3
25°	1246.3	1246.8	1237.4	1220.8	1193.7	1147.3	1101.9	1048.9	970.9	833.8	771.9
27.5°	1253.4	1253.4	1243.5	1224.1	1195.9	1152.3	1093.1	1036.2	958.7	820.0	753.1
30°	1254.0	1255.7	1245.7	1224.1	1192.6	1150.6	1085.4	1021.2	942.2	802.8	733.7
32.5°	1245.2	1246.3	1238.0	1220.8	1186.0	1139.0	1075.4	1000.2	918.9	781.8	708.8
35°	1236.9	1235.8	1226.9	1208.1	1176.0	1125.7	1058.3	975.9	889.6	755.3	682.8
37.5°	1212.0	1212.5	1206.4	1191.5	1160.6	1107.5	1033.9	947.1	855.9	725.4	650.8
40°	1179.4	1179.4	1171.6	1160.6	1137.9	1086.5	1007.4	917.3	818.9	691.1	619.3
42.5°	1166.1	1162.8	1147.8	1127.4	1106.4	1059.9	978.1	882.4	779.6	661.3	587.2
45°	1173.8	1172.2	1153.9	1113.6	1070.4	1017.9	938.8	840.4	748.1	628.1	559.0
47.5°	1214.2	1206.4	1178.8	1129.6	1057.7	979.8	892.4	804.5	716.6	588.3	527.5
50°	1311.5	1304.3	1260.6	1173.3	1075.4	958.2	855.9	774.6	685.6	559.5	491.0
52.5°	1433.1	1426.0	1367.3	1260.6	1113.0	956.5	841.5	747.5	653.5	517.5	460.6
55°	1526.0	1515.5	1467.4	1347.4	1168.8	970.9	839.9	739.2	625.9	491.5	420.2
57°	1544.3	1537.6	1494.0	1390.0	1203.7	985.3	844.8	719.9	595.5	455.0	401.4
57.5°	1540.4	1533.2	1492.9	1393.3	1208.1	986.9	847.6	719.9	590.5	453.9	398.1
60°	1481.2	1470.7	1440.9	1357.4	1195.4	985.8	845.4	707.2	569.5	421.3	353.9
62.5°	1365.1	1350.2	1314.8	1236.9	1111.9	931.7	812.8	696.1	554.0	393.1	324.6
65°	1213.1	1200.4	1153.9	1090.9	981.4	843.7	774.1	679.0	540.7	368.2	302.4
67.5°	1061.6	1049.4	1011.8	936.1	826.0	733.7	684.5	641.9	523.6	351.1	274.2
70°	942.7	935.5	892.9	809.5	706.1	617.6	601.6	597.1	500.9	332.9	248.3
72.5°	863.6	856.5	812.2	726.0	615.9	530.2	540.2	529.1	484.9	319.0	221.7
75°	808.9	803.9	754.2	665.7	557.3	467.2	459.5	464.4	447.9	300.2	194.6
77.5°	766.9	762.5	710.5	622.6	513.1	419.7	411.9	428.0	415.2	278.7	163.7
80°	730.9	722.7	673.4	586.1	484.9	385.9	373.8	371.6	368.8	235.5	127.7
82.5°	687.8	679.5	632.5	552.4	458.4	366.6	345.6	337.8	302.4	183.0	94.5
85°	643.0	634.7	592.7	519.7	434.6	342.3	322.9	310.7	271.5	134.9	63.6
87.5°	602.1	593.8	553.5	487.7	409.7	325.7	300.8	279.8	228.4	98.4	44.8
90°	556.8	552.4	518.1	457.8	388.7	307.4	284.2	257.1	197.9	80.2	40.9
92.5°	517.0	514.2	484.3	431.3	369.3	297.5	265.9	232.2	171.4	66.3	37.0
95°	484.9	480.5	455.0	409.7	354.4	287.5	259.3	212.9	147.1	57.5	37.6
97.5°	502.0	500.4	475.5	424.1	361.0	290.3	243.8	195.2	128.3	54.7	39.3
100°	491.5	488.8	463.3	410.8	352.2	274.2	223.4	173.6	107.3	55.8	42.0
102.5°	408.6	406.4	392.0	351.6	304.1	241.6	192.4	146.5	99.5	57.5	45.3
105°	346.1	343.9	330.1	304.7	266.5	214.0	173.1	131.6	95.7	59.7	47.6
107.5°	315.7	315.7	305.2	282.0	248.3	201.8	162.6	128.8	91.2	61.4	49.2



REPORT NUMBER: P290549
 CATALOG NUMBER: AXCS3ARL

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	285.9	284.7	275.3	257.7	225.6	189.1	157.0	122.7	86.8	61.9	49.8
112.5°	264.8	261.0	253.8	238.3	207.9	178.0	149.8	113.3	83.5	61.4	49.8
115°	238.3	236.6	230.6	217.8	193.0	167.0	138.8	103.9	81.8	60.3	48.1
117.5°	216.7	215.6	210.1	197.9	178.0	156.5	128.3	97.9	79.6	58.1	45.9
120°	197.4	195.7	191.9	179.7	162.6	144.9	119.4	94.0	76.9	55.3	43.7
122.5°	180.2	179.7	176.4	165.3	152.6	135.5	111.7	91.8	74.1	52.0	40.4
125°	168.1	167.5	162.0	151.5	138.2	127.2	107.8	90.1	70.2	48.1	37.0
127.5°	158.1	157.6	153.2	142.7	134.9	119.4	101.7	85.1	65.8	44.2	34.3
130°	142.1	141.0	137.7	133.8	127.2	111.7	100.1	80.2	61.4	40.9	31.5
132.5°	131.0	131.0	132.7	129.9	118.9	105.6	94.5	75.7	57.5	37.6	29.3
135°	131.0	131.0	128.3	122.2	111.7	107.3	89.0	70.2	54.2	34.3	26.5
137.5°	123.3	122.7	120.0	113.9	108.4	101.7	82.4	65.2	50.3	31.5	24.3
140°	113.3	112.8	110.6	109.5	112.2	92.9	76.9	61.9	47.0	28.8	22.1
142.5°	111.1	111.7	118.3	116.7	99.5	86.3	71.3	57.5	43.7	26.0	20.5
145°	120.0	117.8	112.8	100.6	90.7	78.5	68.0	55.3	40.4	23.2	18.2
147.5°	99.5	99.0	96.2	92.3	83.5	75.2	62.5	50.9	36.5	20.5	16.6
150°	93.4	93.4	90.7	83.5	76.9	68.6	57.5	46.4	32.6	18.2	14.9
152.5°	81.3	80.7	79.1	78.0	71.3	60.8	53.1	41.5	28.8	15.5	13.3
155°	76.9	76.9	76.9	69.1	61.9	55.8	47.6	36.5	25.4	13.3	11.6
157.5°	65.8	64.7	63.6	60.3	56.4	49.8	40.9	31.5	22.1	11.1	10.0
160°	58.1	58.6	57.5	54.2	49.8	43.1	34.8	26.5	18.8	8.8	8.3
162.5°	50.9	50.3	49.8	47.0	42.0	35.9	28.8	21.6	15.5	7.2	7.2
165°	42.6	42.0	40.4	38.2	33.7	28.2	22.1	17.7	11.6	6.1	5.5
167.5°	32.6	32.6	31.5	28.8	25.4	20.5	16.0	12.7	7.7	5.0	4.4
170°	23.8	23.8	22.7	19.4	14.9	12.7	11.1	7.7	5.0	3.9	3.9
172.5°	9.4	10.0	9.4	9.4	8.3	6.6	5.5	4.4	2.8	2.8	2.8
175°	0.6	0.6	1.1	2.2	2.8	2.8	2.8	2.2	2.8	2.8	2.8
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: P290549
 CATALOG NUMBER: AXCS3ARL

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2
2.5°	848.7	845.4	838.2	827.2	818.9	814.4	810.0	810.6	807.8	809.5
5°	841.0	829.9	815.5	802.8	797.3	796.2	797.8	801.2	802.3	802.3
7.5°	832.7	814.4	799.0	794.5	797.3	800.1	800.6	802.3	800.1	800.1
10°	823.3	797.3	790.1	792.9	794.5	786.8	773.5	766.3	762.5	759.7
12.5°	810.6	783.5	785.7	786.2	769.1	747.5	728.7	717.7	711.0	711.0
15°	796.7	770.8	776.8	761.9	731.5	702.7	683.4	666.8	654.1	650.2
17.5°	782.4	759.1	764.1	727.1	690.0	654.6	616.5	579.4	564.5	561.2
20°	766.3	745.9	738.1	690.6	644.1	584.4	520.8	464.4	432.9	430.2
22.5°	748.1	729.3	703.9	649.1	583.9	492.1	403.1	340.0	312.4	303.5
25°	728.7	711.0	671.2	603.2	501.5	384.8	291.9	248.8	230.6	232.8
27.5°	707.7	687.3	635.8	546.3	404.2	287.5	225.0	198.5	188.0	186.9
30°	685.1	658.5	594.9	477.2	317.4	224.5	188.5	173.6	168.6	167.5
32.5°	659.6	627.0	547.9	395.9	249.9	188.0	168.6	163.1	161.4	160.9
35°	629.2	588.3	492.6	322.9	203.5	167.5	159.8	160.9	163.7	164.2
37.5°	597.1	546.8	434.6	259.3	175.3	156.5	157.6	169.2	180.8	182.5
40°	562.9	508.1	369.9	212.9	157.0	150.4	164.2	191.9	210.7	215.6
42.5°	538.5	462.8	311.8	179.1	146.0	149.3	180.8	220.6	238.9	240.5
45°	504.8	421.3	260.4	157.0	137.7	154.3	201.8	235.5	238.9	238.9
47.5°	470.5	378.7	217.3	141.0	132.1	164.2	217.3	225.0	206.8	205.1
50°	436.8	330.6	181.4	127.7	129.4	175.8	212.3	185.2	159.8	157.6
52.5°	404.2	289.2	154.8	117.2	128.3	182.5	188.0	143.8	120.5	120.5
55°	370.4	245.5	133.8	109.5	128.3	178.0	155.4	111.7	95.1	92.9
57°	338.4	216.7	120.5	103.4	128.3	166.4	126.1	92.9	80.7	79.6
57.5°	331.2	210.1	118.3	102.3	128.3	163.1	120.5	89.6	76.9	76.3
60°	301.3	176.4	105.1	96.2	127.2	140.4	96.2	73.0	64.1	63.6
62.5°	270.9	151.5	94.5	90.7	122.2	117.8	80.7	61.9	54.7	54.2
65°	245.5	128.3	85.7	85.7	115.0	96.2	66.9	53.1	46.4	45.9
67.5°	218.4	108.9	78.5	80.2	104.5	79.6	55.8	45.3	39.8	39.3
70°	185.2	93.4	71.9	74.6	92.9	66.3	47.0	38.2	33.7	33.2
72.5°	158.1	80.2	66.3	69.1	80.2	55.3	40.4	32.6	27.6	27.6
75°	123.9	69.1	60.8	63.0	68.0	45.3	33.7	27.1	22.7	22.1
77.5°	94.5	59.7	55.3	56.9	57.5	37.0	27.6	22.7	18.2	18.2
80°	67.5	51.4	50.9	50.9	47.6	31.0	23.8	18.2	14.9	14.4
82.5°	50.9	44.2	46.4	45.3	39.3	26.0	19.9	14.9	11.1	10.5
85°	40.4	38.7	42.0	40.4	32.1	22.1	16.6	11.1	7.7	7.2
87.5°	33.2	34.8	38.2	33.7	24.3	16.0	10.5	6.1	2.8	2.2
90°	30.4	32.6	34.3	28.2	19.4	11.6	6.6	2.8	0.6	0.0
92.5°	31.0	32.1	33.2	26.5	18.2	10.5	6.1	2.8	0.6	0.0
95°	32.6	32.6	32.1	26.0	17.7	10.5	6.1	2.8	0.6	0.0
97.5°	34.8	33.2	31.5	25.4	17.1	10.5	5.5	2.8	0.6	0.0
100°	37.0	33.7	31.5	24.9	17.1	10.0	5.5	2.8	0.6	0.0
102.5°	39.3	34.3	31.5	24.9	16.6	10.0	5.5	2.8	0.6	0.0
105°	40.9	34.3	31.0	24.9	16.6	10.0	5.5	2.8	0.6	0.0
107.5°	42.0	34.3	30.4	24.3	16.6	9.4	5.5	2.8	0.6	0.0



REPORT NUMBER: P290549
 CATALOG NUMBER: AXCS3ARL

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	42.6	33.7	29.3	23.8	16.0	9.4	5.0	2.2	0.6	0.0
112.5°	42.0	33.2	28.2	22.7	15.5	8.8	5.0	2.2	0.6	0.0
115°	40.4	32.1	27.1	21.6	14.9	8.8	5.0	2.2	0.6	0.0
117.5°	38.7	30.4	26.0	20.5	14.4	8.3	4.4	2.2	0.6	0.0
120°	37.0	28.8	24.3	19.4	13.3	7.7	4.4	2.2	0.0	0.0
122.5°	34.8	27.6	23.2	18.2	12.7	7.7	3.9	1.7	0.0	0.0
125°	32.6	26.0	22.1	17.7	12.2	7.2	3.9	1.7	0.0	0.0
127.5°	30.4	24.3	20.5	16.6	11.6	6.6	3.9	1.7	0.0	0.0
130°	28.2	23.2	19.4	15.5	11.1	6.1	3.3	1.7	0.0	0.0
132.5°	26.0	21.6	17.7	14.4	10.0	6.1	3.3	1.7	0.0	0.0
135°	23.8	19.9	16.6	13.3	9.4	5.5	2.8	1.1	0.0	0.0
137.5°	22.1	18.8	15.5	12.7	8.8	5.0	2.8	1.1	0.0	0.0
140°	20.5	17.1	14.4	11.6	8.3	4.4	2.8	1.1	0.0	0.0
142.5°	18.8	16.0	13.3	10.5	7.2	4.4	2.2	1.1	0.0	0.0
145°	17.1	14.4	12.2	9.4	6.6	3.9	2.2	1.1	0.0	0.0
147.5°	15.5	13.3	11.1	8.8	5.5	3.3	1.7	0.6	0.0	0.0
150°	13.8	12.2	10.0	7.7	5.0	2.8	1.7	0.6	0.0	0.0
152.5°	12.7	10.5	8.8	6.6	4.4	2.8	1.1	0.6	0.0	0.0
155°	11.1	9.4	7.7	6.1	3.9	2.2	1.1	0.6	0.0	0.0
157.5°	9.4	8.3	6.6	5.0	3.3	1.7	0.6	0.6	0.0	0.0
160°	8.3	7.2	6.1	4.4	2.8	1.7	0.6	0.0	0.0	0.0
162.5°	6.6	6.1	5.0	3.3	2.2	1.1	0.6	0.0	0.0	0.0
165°	5.5	5.0	3.9	2.8	1.7	1.1	0.6	0.0	0.0	0.0
167.5°	4.4	3.9	3.3	2.2	1.7	0.6	0.6	0.0	0.0	0.0
170°	3.9	3.3	2.8	1.7	1.1	0.6	0.6	0.0	0.0	0.0
172.5°	2.8	2.8	2.2	1.1	0.6	0.6	0.0	0.0	0.0	0.0
175°	2.8	2.2	1.1	1.1	0.6	0.6	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)