

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: P231801

Luminaire Tested: **AXCL10A-W-GRF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1709-271-3)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: AXCL10A-W-GRF
Description: AXCENT CUTOFF WALLPACK WITH FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9831.5 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.29' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

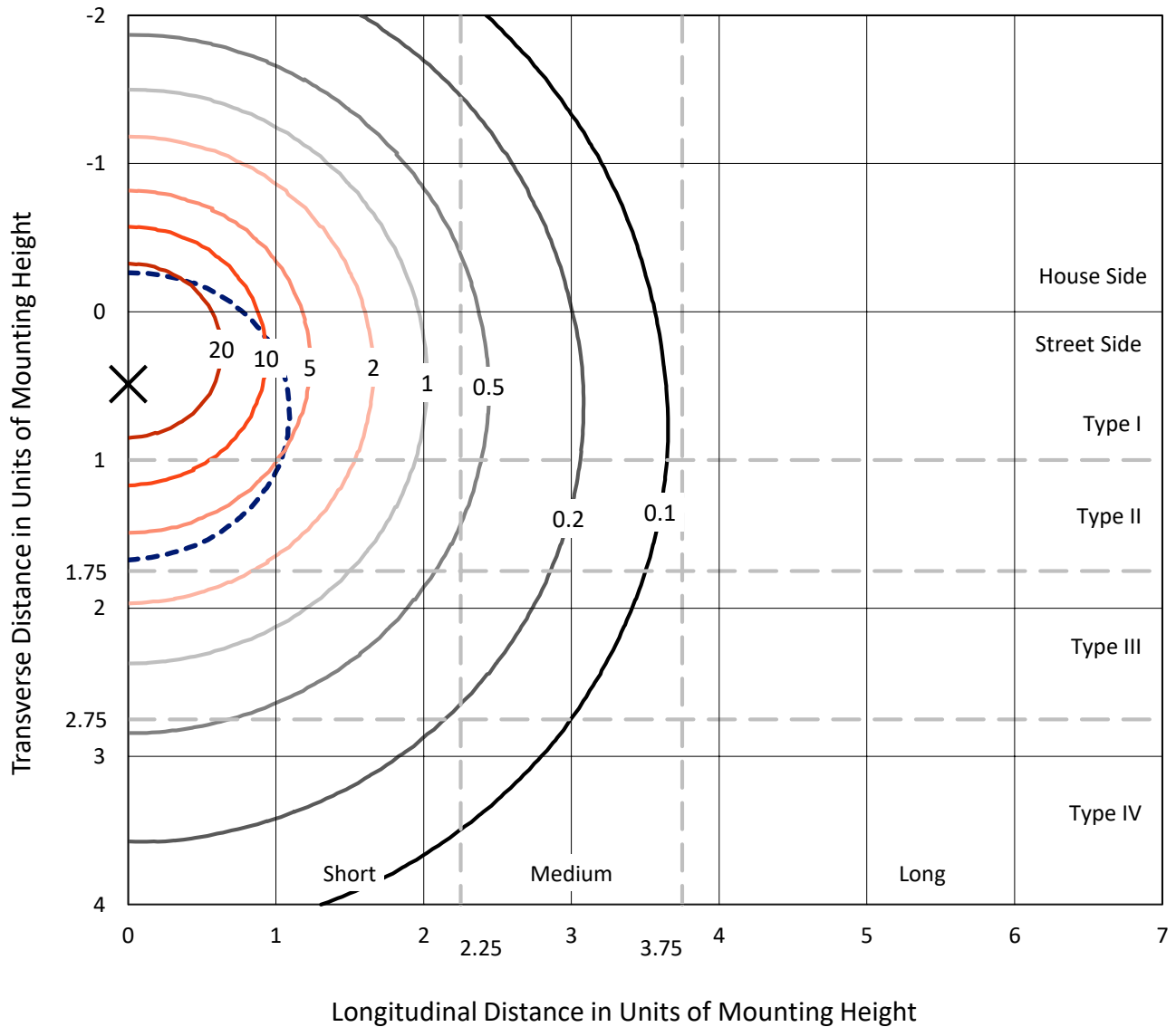
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P231801
 CATALOG NUMBER: AXCL10A-W-GRF

Iso-Footcandle Lines of Horizontal Illumination

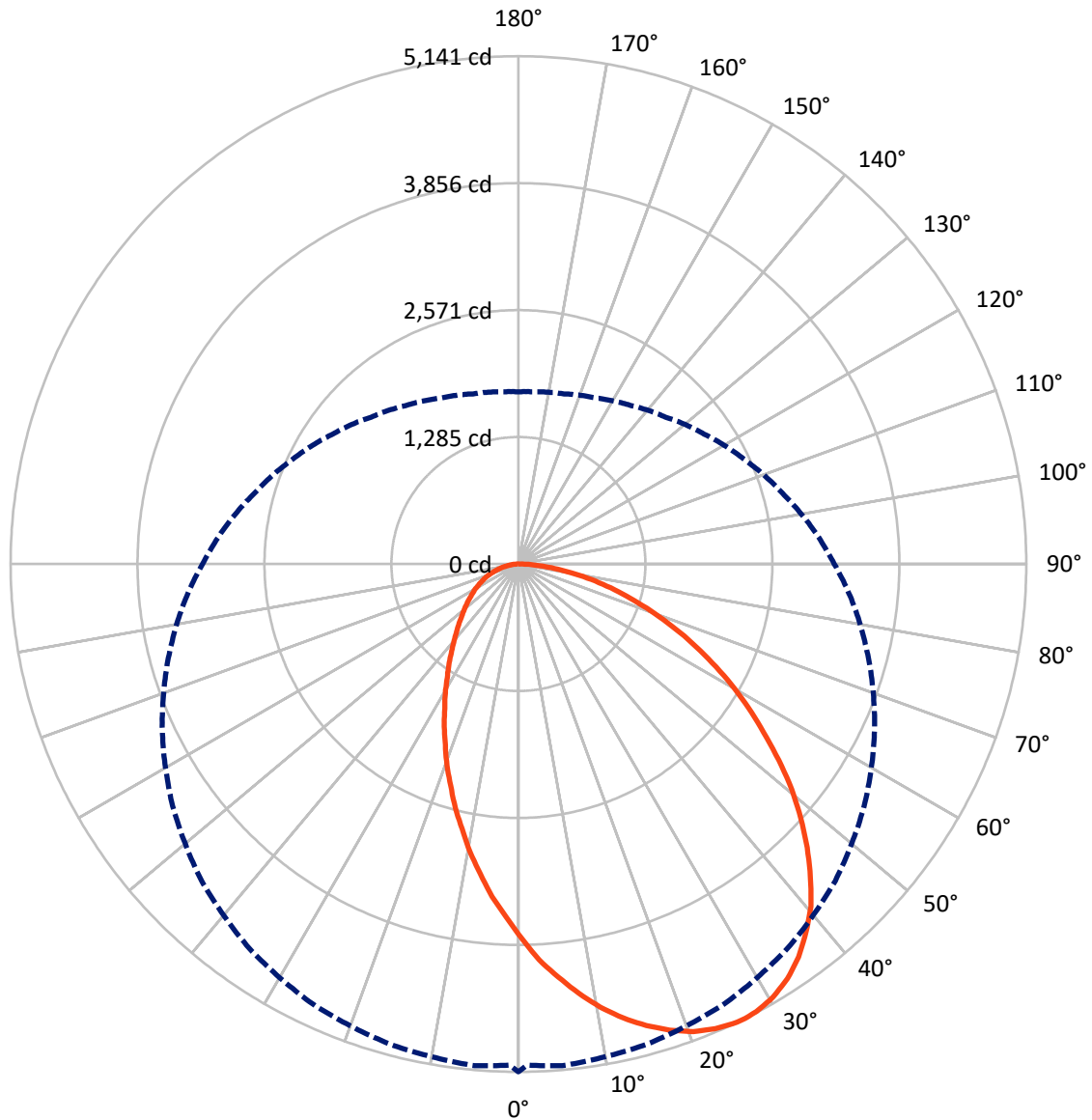
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 43.8 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P231801
CATALOG NUMBER: AXCL10A-W-GRF

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 26-Deg Vertical

REPORT NUMBER: P231801
 CATALOG NUMBER: AXCL10A-W-GRF

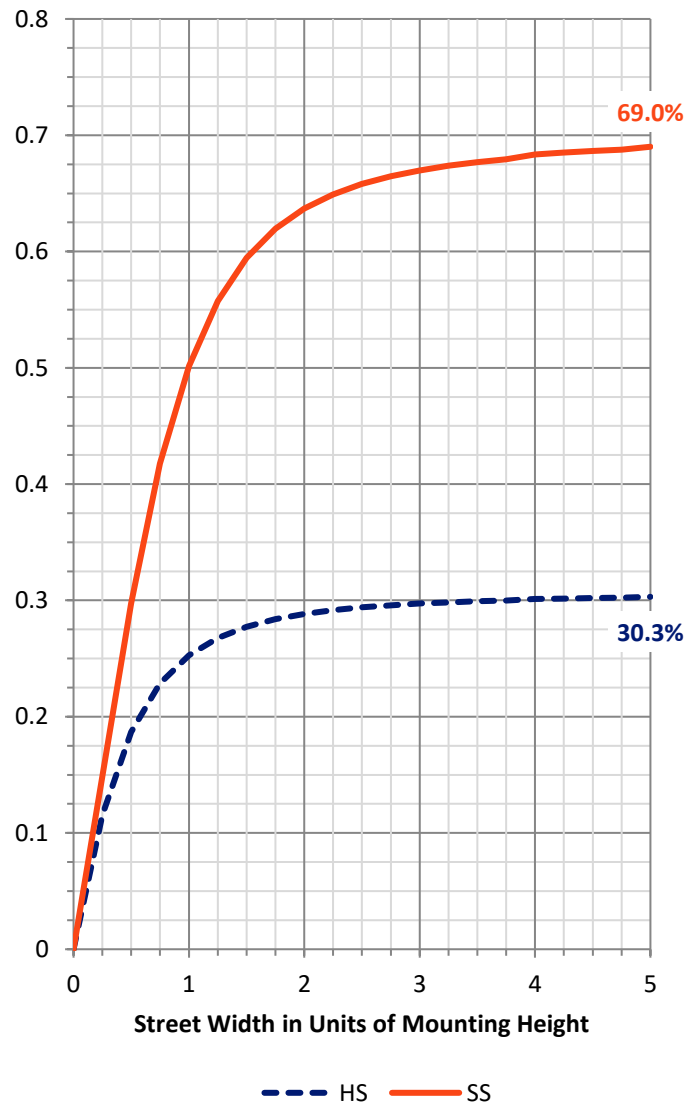
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3010.8	0.0	3010.8
	% Fixture	30.6	0.0	30.6
Street Side	Lumens	6820.7	0.0	6820.7
	% Fixture	69.4	0.0	69.4
Total	Lumens	9831.5	0.0	9831.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.5	3.6
10°-20°	1026.6	10.4
20°-30°	1543.4	15.7
30°-40°	1810.5	18.4
40°-50°	1781.9	18.1
50°-60°	1504.5	15.3
60°-70°	1073.7	10.9
70°-80°	582.0	5.9
80°-90°	150.3	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9831.5	100.0
0°-180°	9831.5	100.0



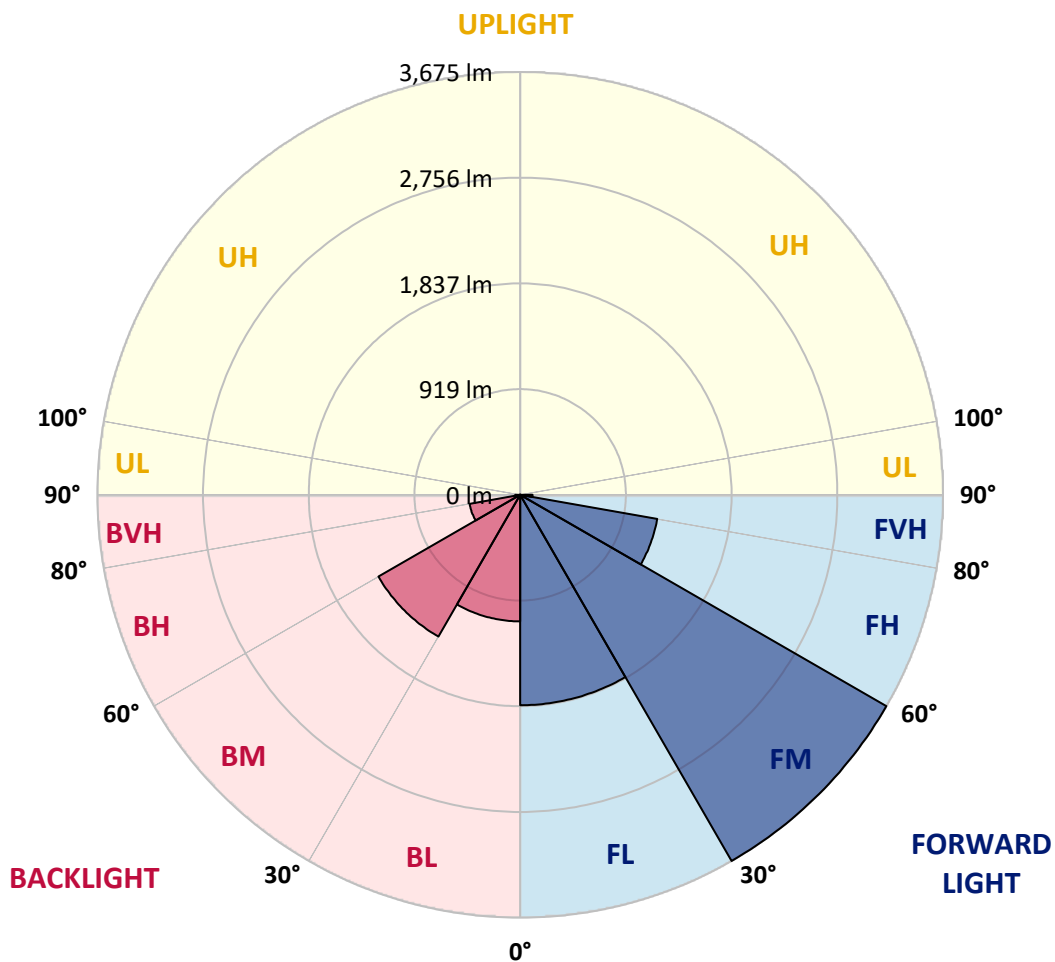
REPORT NUMBER: P231801
 CATALOG NUMBER: AXCL10A-W-GRF

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1828.9	18.6			
FM	(30°-60°)	3674.8	37.4			
FH	(60°-80°)	1209.3	12.3			G1/1800
FVH	(80°-90°)	107.7	1.1			G2/225
BL	(0°-30°)	1099.7	11.2	B3/2500		
BM	(30°-60°)	1422.1	14.5	B2/2500		
BH	(60°-80°)	446.5	4.5	B1/500		G1/500
BVH	(80°-90°)	42.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





REPORT NUMBER: P231801
 CATALOG NUMBER: AXCL10A-W-GRF

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3790.6	3790.6	3790.6	3790.6	3790.6	3790.6	3790.6	3790.6	3790.6	3790.6	3790.6
2.5°	4012.8	3974.4	3994.3	3990.2	3968.9	3955.9	3936.0	3903.1	3874.9	3837.9	3802.9
5°	4199.3	4160.9	4180.1	4167.1	4143.1	4102.0	4058.1	4003.2	3944.2	3872.2	3804.3
7.5°	4386.6	4341.3	4359.1	4339.3	4298.8	4248.0	4178.8	4088.2	4001.1	3896.9	3794.7
10°	4564.2	4508.0	4527.9	4499.1	4445.6	4370.1	4281.0	4167.1	4045.0	3909.9	3774.1
12.5°	4715.8	4656.1	4684.2	4644.4	4580.7	4484.0	4374.2	4232.9	4078.6	3911.3	3741.2
15°	4848.1	4793.3	4815.9	4772.0	4697.3	4586.8	4448.3	4283.0	4095.8	3899.6	3696.6
17.5°	4962.0	4907.8	4932.5	4878.3	4793.3	4664.3	4505.2	4311.1	4099.9	3872.2	3640.4
20°	5053.9	4989.4	5014.8	4957.2	4863.2	4719.2	4543.6	4324.9	4084.8	3830.4	3571.1
22.5°	5109.4	5047.7	5071.7	5010.7	4905.7	4750.8	4556.7	4318.7	4054.6	3773.4	3487.5
25°	5139.6	5073.8	5096.4	5030.6	4919.5	4756.2	4546.4	4289.2	4005.9	3704.2	3399.7
26°	5141.0	5073.8	5098.5	5031.3	4918.1	4750.1	4535.4	4272.7	3977.8	3667.8	3357.1
27.5°	5130.7	5064.2	5087.5	5019.6	4904.4	4731.5	4510.7	4241.9	3933.9	3611.6	3287.9
30°	5084.8	5021.0	5042.9	4975.7	4855.0	4678.7	4448.3	4165.1	3846.1	3508.0	3172.7
32.5°	5002.5	4936.6	4958.6	4894.1	4773.4	4588.2	4358.5	4063.5	3738.5	3390.1	3040.3
35°	4884.5	4823.4	4848.1	4778.2	4653.4	4473.0	4239.8	3943.5	3611.6	3257.7	2901.8
37.5°	4728.1	4669.8	4693.8	4625.9	4512.1	4329.7	4094.4	3796.1	3464.8	3109.6	2757.0
40°	4559.4	4493.6	4511.4	4442.1	4336.5	4150.6	3929.1	3635.6	3300.2	2953.9	2597.2
42.5°	4334.5	4283.0	4305.6	4244.6	4130.1	3954.5	3738.5	3451.1	3132.9	2783.8	2440.9
45°	4097.2	4049.8	4072.5	4013.5	3911.3	3752.2	3532.0	3258.4	2945.6	2612.3	2281.1
47.5°	3847.5	3805.7	3815.3	3768.0	3661.0	3514.2	3308.4	3045.8	2748.8	2434.0	2119.9
50°	3586.2	3542.3	3549.2	3511.5	3414.1	3278.3	3078.0	2840.0	2555.4	2261.9	1951.9
52.5°	3299.5	3270.0	3287.9	3239.2	3148.0	3022.5	2844.8	2615.8	2351.7	2074.6	1796.2
55°	3013.5	2997.8	3009.4	2968.3	2888.7	2768.7	2611.0	2399.7	2161.1	1895.6	1638.5
57.5°	2747.4	2716.6	2733.7	2701.5	2626.0	2516.3	2371.6	2175.5	1954.6	1718.7	1486.9
60°	2475.2	2459.4	2464.2	2421.7	2366.8	2266.0	2131.6	1961.5	1755.0	1552.0	1329.1
62.5°	2200.1	2177.5	2191.2	2157.6	2098.0	2015.7	1904.6	1746.8	1569.2	1377.8	1188.5
65°	1935.4	1918.3	1921.7	1895.0	1862.0	1777.0	1670.0	1536.3	1377.8	1211.2	1043.1
67.5°	1670.7	1681.0	1667.3	1643.3	1608.3	1542.4	1449.8	1330.5	1197.5	1054.1	901.9
70°	1422.4	1427.9	1422.4	1406.0	1370.3	1326.4	1237.9	1144.7	1021.9	893.0	772.9
72.5°	1183.7	1198.8	1193.3	1178.3	1146.0	1095.3	1029.4	951.2	853.2	744.1	644.7
75°	965.0	963.6	975.9	952.6	930.7	883.4	834.0	764.7	688.6	605.6	514.4
77.5°	753.7	755.8	748.2	741.4	722.2	695.4	657.0	594.6	535.6	465.7	396.4
80°	545.2	556.2	554.8	544.5	532.9	508.9	480.8	438.9	386.8	337.4	287.4
82.5°	368.3	386.1	374.5	371.0	362.8	342.2	321.7	290.8	262.0	227.0	187.2
85°	215.4	235.2	225.6	224.3	218.8	201.6	188.6	170.1	145.4	124.1	101.5
87.5°	101.5	125.5	117.3	112.5	107.0	99.4	89.8	79.6	65.2	50.8	36.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P231801
 CATALOG NUMBER: AXCL10A-W-GRF

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	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	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: P231801
 CATALOG NUMBER: AXCL10A-W-GRF

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3790.6	3790.6	3790.6	3790.6	3790.6	3790.6	3790.6	3790.6	3790.6	3790.6	3790.6
2.5°	3784.4	3769.3	3735.0	3699.4	3670.6	3636.3	3620.5	3597.9	3588.3	3580.7	3573.2
5°	3766.6	3735.0	3668.5	3597.9	3540.9	3482.6	3449.7	3407.9	3385.9	3367.4	3377.0
7.5°	3741.2	3689.1	3588.3	3495.0	3403.8	3322.2	3265.2	3218.6	3185.0	3157.6	3159.6
10°	3704.2	3637.0	3506.0	3381.1	3260.4	3162.4	3090.4	3027.9	2974.4	2960.7	2958.0
12.5°	3654.8	3573.2	3409.3	3255.6	3118.5	3003.3	2904.5	2827.0	2774.9	2750.2	2740.6
15°	3594.4	3496.4	3306.4	3129.4	2969.0	2830.4	2722.7	2637.0	2586.3	2546.5	2549.2
17.5°	3522.4	3412.0	3191.9	2994.3	2818.8	2665.1	2541.7	2456.6	2381.9	2349.7	2343.5
20°	3440.8	3318.1	3078.0	2859.2	2661.7	2499.9	2365.4	2267.4	2194.7	2165.2	2163.1
22.5°	3347.5	3215.9	2952.5	2714.5	2510.1	2329.8	2194.7	2085.6	2019.1	1979.3	1975.2
25°	3244.0	3099.3	2818.8	2569.8	2352.4	2171.3	2028.7	1919.0	1846.3	1814.7	1809.9
26°	3197.3	3053.3	2766.6	2516.3	2294.1	2104.1	1962.8	1854.5	1782.5	1749.6	1743.4
27.5°	3130.1	2973.1	2683.7	2425.8	2198.8	2019.8	1870.3	1765.3	1682.3	1647.4	1641.9
30°	3001.9	2846.2	2542.4	2279.0	2052.7	1867.5	1719.4	1611.0	1541.1	1503.3	1502.7
32.5°	2866.8	2704.2	2403.2	2132.2	1905.2	1718.0	1578.1	1473.2	1403.2	1366.2	1360.7
35°	2728.9	2562.3	2263.2	1992.3	1769.4	1586.3	1446.4	1344.9	1279.1	1241.4	1242.0
37.5°	2576.7	2415.5	2113.7	1851.1	1636.4	1463.6	1326.4	1227.6	1168.0	1133.0	1130.9
40°	2423.0	2266.7	1972.5	1720.8	1509.5	1342.2	1213.2	1122.7	1065.1	1032.9	1028.7
42.5°	2274.2	2115.1	1829.8	1588.4	1390.2	1231.8	1109.0	1029.4	971.8	947.1	942.3
45°	2120.6	1971.8	1689.9	1464.2	1272.9	1130.9	1017.8	941.6	889.5	865.5	862.8
47.5°	1960.1	1818.8	1566.4	1347.7	1171.4	1034.9	932.7	864.1	817.5	793.5	789.4
50°	1809.2	1679.6	1432.7	1235.9	1072.0	949.9	858.7	793.5	748.9	728.4	724.9
52.5°	1663.1	1534.2	1310.6	1130.2	980.7	867.6	785.3	724.9	687.2	668.7	668.7
55°	1515.0	1397.0	1193.3	1028.7	895.0	790.1	719.4	664.6	630.3	613.8	610.4
57.5°	1369.6	1264.0	1080.9	930.7	812.7	720.1	654.3	608.3	578.2	561.0	559.0
60°	1228.3	1137.1	970.5	836.0	733.2	652.9	593.9	552.1	524.7	511.6	511.6
62.5°	1096.6	1010.2	864.1	750.3	655.0	587.8	534.9	497.9	474.6	465.0	461.6
65°	960.8	888.2	766.1	659.8	581.6	522.6	478.7	447.2	426.6	417.0	413.6
67.5°	835.3	774.3	666.6	576.8	510.3	458.8	421.1	395.7	376.5	367.6	369.0
70°	709.1	659.8	567.2	497.2	441.7	395.0	366.2	344.3	330.6	320.3	323.0
72.5°	593.2	546.6	474.6	413.6	368.3	336.1	310.7	292.2	280.5	274.3	276.4
75°	474.6	441.0	385.4	337.4	302.5	277.8	254.4	241.4	232.5	229.1	227.7
77.5°	369.0	340.2	299.7	264.0	238.0	218.8	202.3	194.1	185.2	183.1	183.1
80°	264.0	246.2	214.7	193.4	173.5	161.2	152.9	145.4	142.7	140.6	139.9
82.5°	174.2	159.1	142.7	128.9	118.6	111.1	104.9	103.6	100.1	99.4	100.1
85°	91.2	85.7	77.5	71.3	70.6	67.2	66.5	67.2	66.5	65.8	65.8
87.5°	32.9	30.2	30.2	30.9	32.9	35.0	35.7	38.4	39.8	41.1	41.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P231801
 CATALOG NUMBER: AXCL10A-W-GRF

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	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	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)