

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: P#

Luminaire Tested: **AXCL8A-GRF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
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: AXCL8A-GRF  
Description: AXCENT CUTOFF WALLPACK WITH FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8262 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Luminous Opening: Rectangular (W 0.29' x L: 0.75' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G1

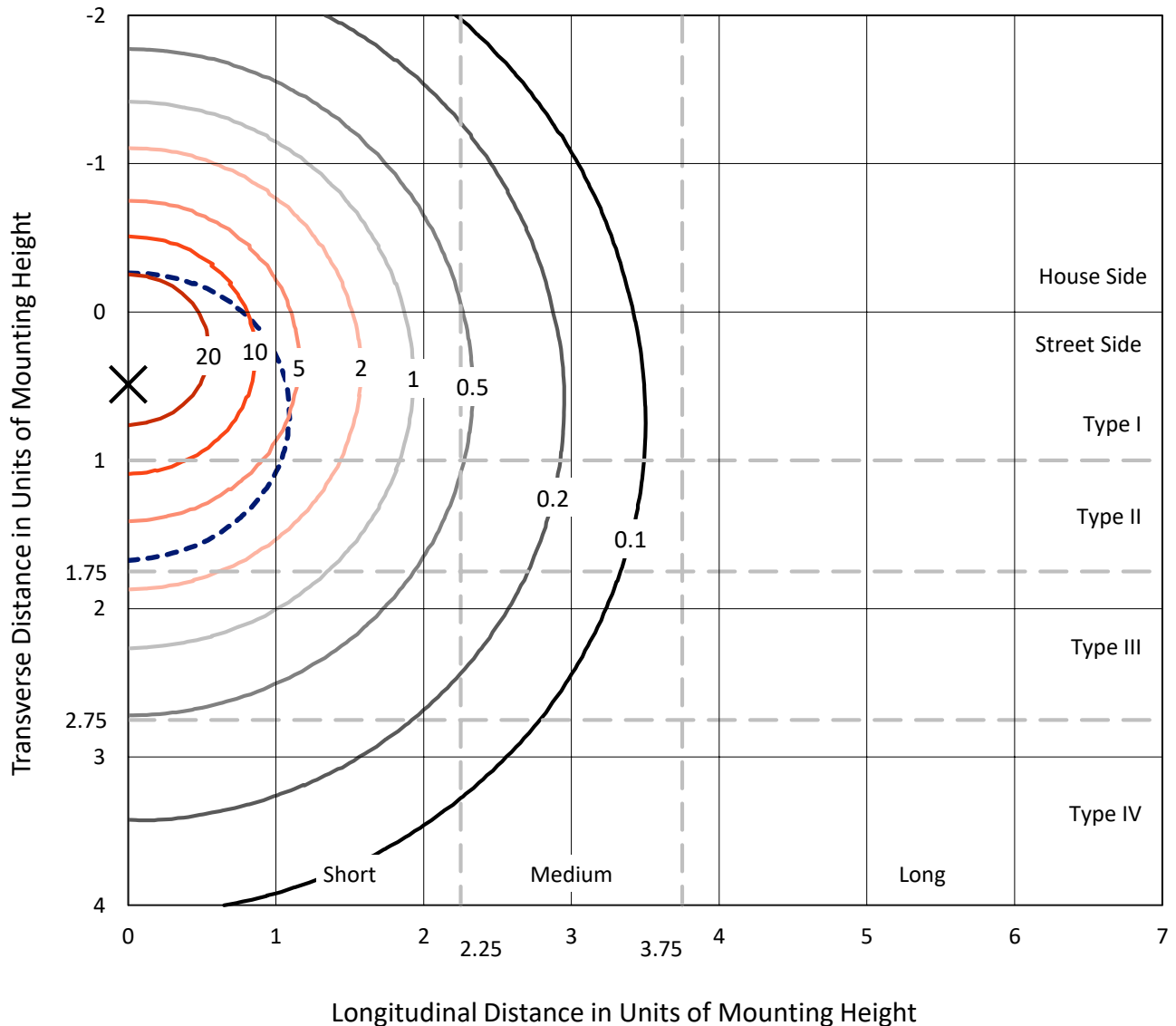
Input Watts (W): 72  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

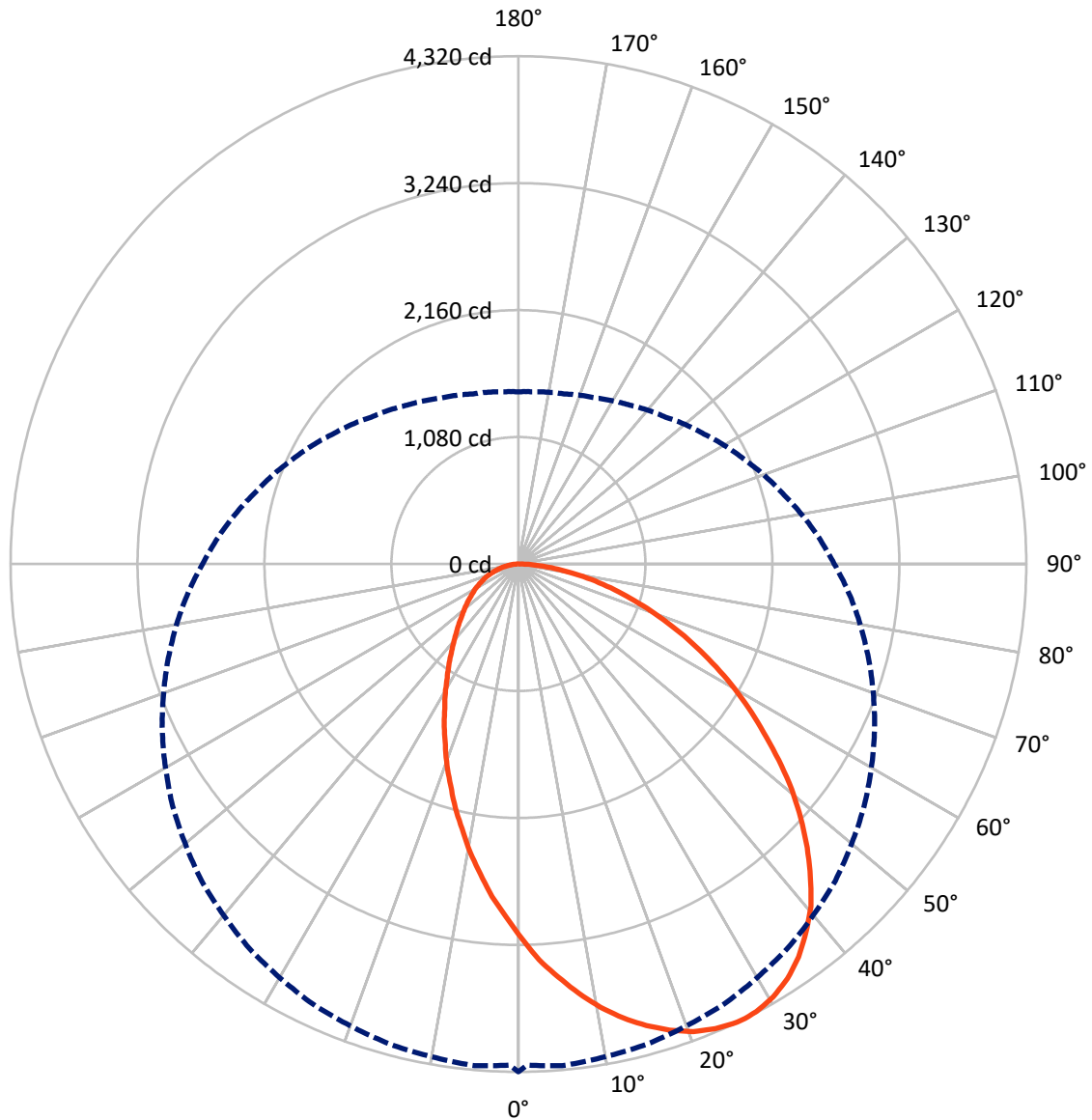
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 36.8 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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

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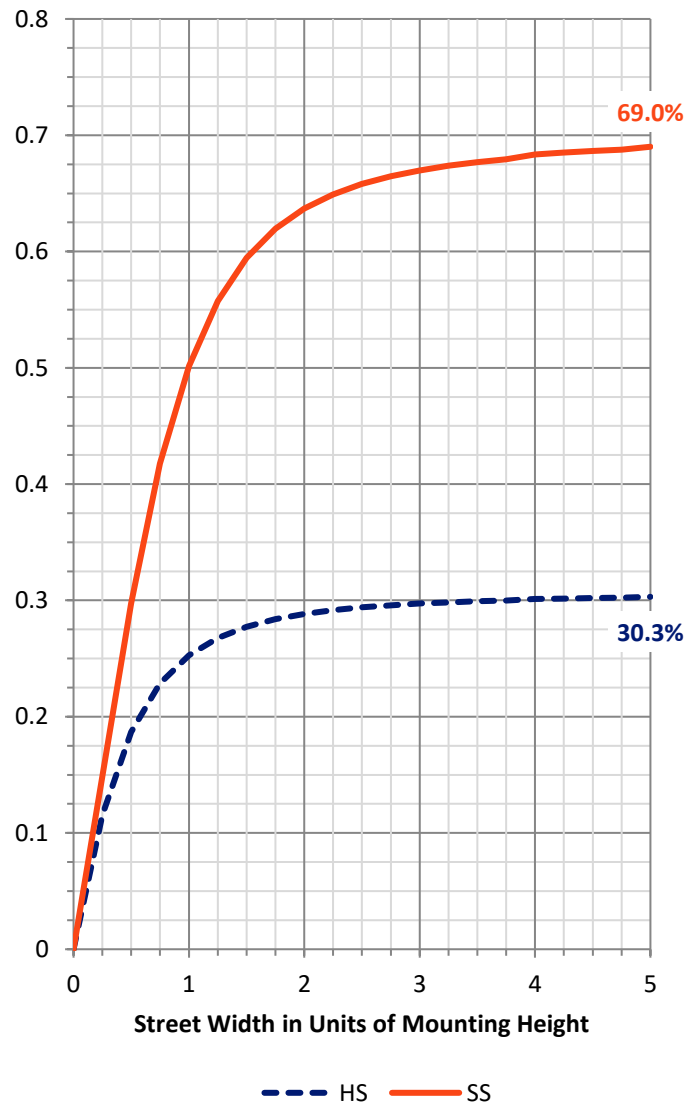
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2530.2	0.0	2530.2
	% Fixture	30.6	0.0	30.6
<b>Street Side</b>	Lumens	5731.8	0.0	5731.8
	% Fixture	69.4	0.0	69.4
<b>Total</b>	Lumens	8262.0	0.0	8262.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	301.3	3.6
10°-20°	862.8	10.4
20°-30°	1297.0	15.7
30°-40°	1521.5	18.4
40°-50°	1497.4	18.1
50°-60°	1264.3	15.3
60°-70°	902.3	10.9
70°-80°	489.1	5.9
80°-90°	126.3	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°	8262.0	100.0
0°-180°	8262.0	100.0

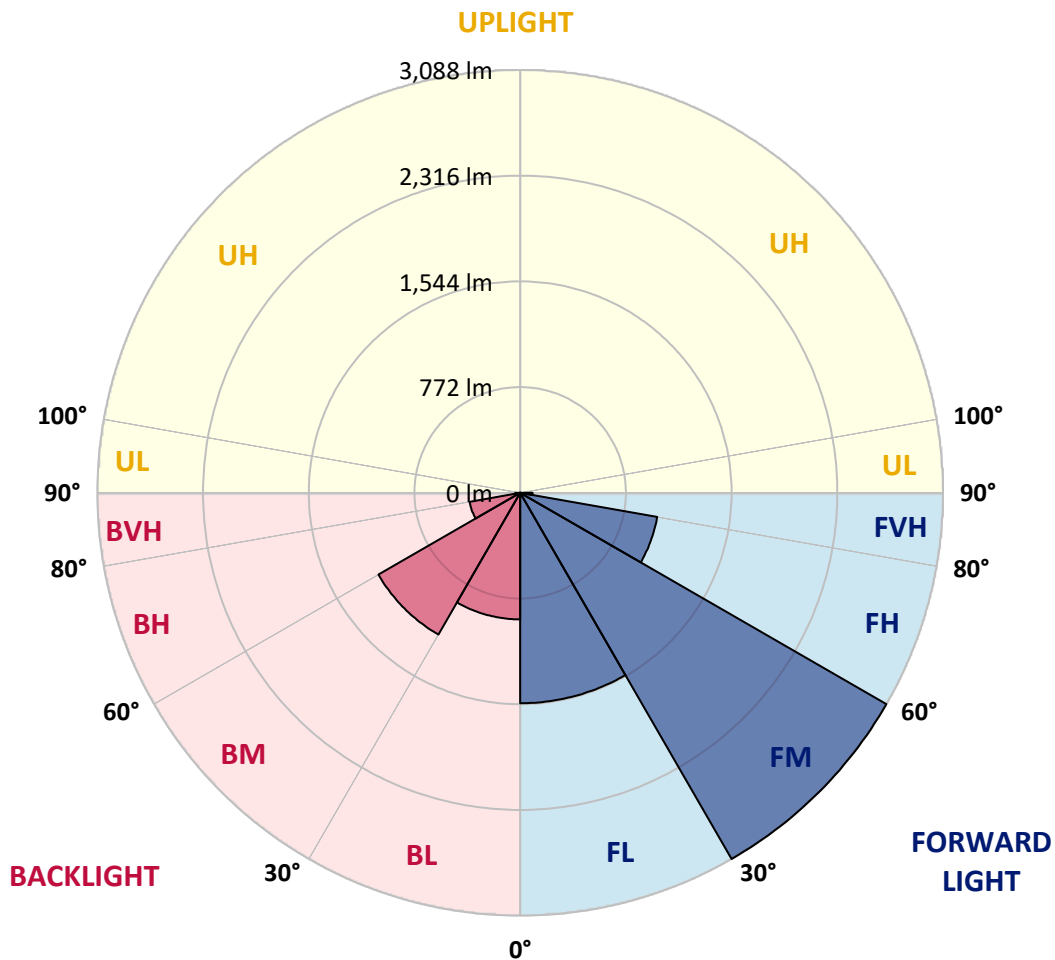


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1536.9	18.6			
FM (30°-60°)	3088.2	37.4			
FH (60°-80°)	1016.2	12.3			G1/1800
FVH (80°-90°)	90.5	1.1			G1/100
BL (0°-30°)	924.2	11.2	B2/1000		
BM (30°-60°)	1195.1	14.5	B2/2500		
BH (60°-80°)	375.2	4.5	B1/500		G1/500
BVH (80°-90°)	35.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3185.5	3185.5	3185.5	3185.5	3185.5	3185.5	3185.5	3185.5	3185.5	3185.5	3185.5
2.5°	3372.2	3339.9	3356.6	3353.2	3335.3	3324.4	3307.6	3280.0	3256.4	3225.2	3195.8
5°	3529.0	3496.7	3512.8	3501.9	3481.7	3447.1	3410.2	3364.1	3314.6	3254.0	3197.0
7.5°	3686.3	3648.3	3663.3	3646.5	3612.5	3569.9	3511.7	3435.6	3362.4	3274.8	3188.9
10°	3835.6	3788.3	3805.0	3780.8	3735.9	3672.5	3597.5	3501.9	3399.3	3285.7	3171.6
12.5°	3963.0	3912.8	3936.4	3903.0	3849.4	3768.1	3675.9	3557.2	3427.5	3286.9	3144.0
15°	4074.2	4028.1	4047.1	4010.2	3947.4	3854.6	3738.2	3599.3	3441.9	3277.1	3106.5
17.5°	4169.9	4124.3	4145.1	4099.5	4028.1	3919.7	3786.0	3622.9	3445.4	3254.0	3059.2
20°	4247.1	4192.9	4214.2	4165.8	4086.9	3965.8	3818.3	3634.4	3432.7	3218.9	3001.0
22.5°	4293.8	4241.9	4262.1	4210.8	4122.6	3992.3	3829.2	3629.2	3407.4	3171.1	2930.7
25°	4319.1	4263.8	4282.8	4227.5	4134.1	3997.0	3820.6	3604.5	3366.4	3112.8	2856.9
26°	4320.3	4263.8	4284.6	4228.1	4133.0	3991.8	3811.4	3590.6	3342.8	3082.3	2821.2
27.5°	4311.6	4255.7	4275.3	4218.3	4121.4	3976.2	3790.6	3564.7	3305.9	3035.0	2763.0
30°	4273.0	4219.4	4237.9	4181.4	4080.0	3931.8	3738.2	3500.1	3232.1	2948.0	2666.2
32.5°	4203.9	4148.5	4167.0	4112.8	4011.4	3855.8	3662.7	3414.8	3141.7	2848.9	2554.9
35°	4104.7	4053.4	4074.2	4015.4	3910.5	3758.9	3563.0	3314.0	3035.0	2737.6	2438.5
37.5°	3973.3	3924.3	3944.5	3887.5	3791.8	3638.5	3440.8	3190.1	2911.7	2613.2	2316.9
40°	3831.5	3776.2	3791.2	3733.0	3644.2	3488.0	3301.9	3055.2	2773.4	2482.3	2182.6
42.5°	3642.5	3599.3	3618.3	3567.0	3470.8	3323.2	3141.7	2900.2	2632.7	2339.4	2051.2
45°	3443.1	3403.3	3422.3	3372.8	3286.9	3153.2	2968.2	2738.2	2475.4	2195.3	1916.9
47.5°	3233.3	3198.1	3206.2	3166.4	3076.5	2953.2	2780.3	2559.6	2310.0	2045.5	1781.5
50°	3013.7	2976.8	2982.6	2950.9	2869.0	2754.9	2586.6	2386.6	2147.5	1900.8	1640.3
52.5°	2772.8	2748.0	2763.0	2722.1	2645.4	2540.0	2390.7	2198.2	1976.3	1743.4	1509.4
55°	2532.5	2519.2	2529.0	2494.4	2427.6	2326.7	2194.1	2016.6	1816.1	1593.0	1376.9
57.5°	2308.8	2282.9	2297.3	2270.2	2206.8	2114.6	1993.0	1828.2	1642.6	1444.3	1249.5
60°	2080.0	2066.8	2070.8	2035.1	1989.0	1904.2	1791.3	1648.3	1474.9	1304.3	1117.0
62.5°	1848.9	1829.9	1841.4	1813.2	1763.0	1693.9	1600.5	1468.0	1318.7	1157.9	998.8
65°	1626.4	1612.0	1614.9	1592.4	1564.8	1493.3	1403.4	1291.0	1157.9	1017.8	876.6
67.5°	1404.0	1412.6	1401.1	1380.9	1351.5	1296.2	1218.4	1118.1	1006.3	885.8	757.9
70°	1195.3	1200.0	1195.3	1181.5	1151.5	1114.7	1040.3	961.9	858.8	750.4	649.5
72.5°	994.8	1007.5	1002.8	990.2	963.1	920.4	865.1	799.4	717.0	625.3	541.8
75°	810.9	809.8	820.1	800.5	782.1	742.3	700.8	642.6	578.7	508.9	432.3
77.5°	633.4	635.1	628.8	623.0	606.9	584.4	552.1	499.7	450.1	391.3	333.1
80°	458.2	467.4	466.3	457.6	447.8	427.6	404.0	368.9	325.1	283.6	241.5
82.5°	309.5	324.5	314.7	311.8	304.9	287.6	270.3	244.4	220.2	190.8	157.3
85°	181.0	197.7	189.6	188.5	183.9	169.4	158.5	142.9	122.2	104.3	85.3
87.5°	85.3	105.5	98.6	94.5	89.9	83.6	75.5	66.9	54.8	42.6	30.5
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



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**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





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3185.5	3185.5	3185.5	3185.5	3185.5	3185.5	3185.5	3185.5	3185.5	3185.5	3185.5
2.5°	3180.3	3167.6	3138.8	3108.8	3084.6	3055.8	3042.5	3023.5	3015.4	3009.1	3002.8
5°	3165.3	3138.8	3082.9	3023.5	2975.7	2926.7	2899.0	2863.9	2845.4	2829.9	2837.9
7.5°	3144.0	3100.2	3015.4	2937.1	2860.4	2791.8	2744.0	2704.8	2676.5	2653.5	2655.2
10°	3112.8	3056.4	2946.3	2841.4	2739.9	2657.5	2597.0	2544.6	2499.6	2488.1	2485.8
12.5°	3071.3	3002.8	2865.0	2735.9	2620.6	2523.8	2440.8	2375.7	2331.9	2311.1	2303.1
15°	3020.6	2938.2	2778.6	2629.9	2495.0	2378.6	2288.1	2216.0	2173.4	2140.0	2142.3
17.5°	2960.1	2867.3	2682.3	2516.3	2368.8	2239.7	2135.9	2064.5	2001.6	1974.6	1969.4
20°	2891.5	2788.4	2586.6	2402.8	2236.8	2100.8	1987.8	1905.4	1844.3	1819.5	1817.8
22.5°	2813.1	2702.5	2481.2	2281.2	2109.4	1957.8	1844.3	1752.7	1696.8	1663.3	1659.9
25°	2726.1	2604.5	2368.8	2159.6	1976.9	1824.7	1704.8	1612.6	1551.5	1525.0	1521.0
26°	2686.9	2565.9	2325.0	2114.6	1927.9	1768.2	1649.5	1558.4	1497.9	1470.3	1465.1
27.5°	2630.4	2498.5	2255.2	2038.5	1847.8	1697.3	1571.7	1483.5	1413.8	1384.4	1379.8
30°	2522.7	2391.8	2136.5	1915.2	1725.0	1569.4	1444.9	1353.8	1295.0	1263.3	1262.8
32.5°	2409.1	2272.5	2019.5	1791.9	1601.1	1443.7	1326.2	1238.0	1179.2	1148.1	1143.5
35°	2293.3	2153.2	1901.9	1674.3	1487.0	1333.1	1215.5	1130.2	1074.9	1043.2	1043.8
37.5°	2165.3	2029.9	1776.3	1555.6	1375.2	1229.9	1114.7	1031.7	981.5	952.1	950.4
40°	2036.2	1904.8	1657.6	1446.1	1268.5	1127.9	1019.6	943.5	895.1	868.0	864.5
42.5°	1911.2	1777.4	1537.7	1334.8	1168.3	1035.1	932.0	865.1	816.7	795.9	791.9
45°	1782.1	1657.0	1420.1	1230.5	1069.7	950.4	855.3	791.3	747.5	727.3	725.0
47.5°	1647.2	1528.5	1316.4	1132.5	984.4	869.7	783.8	726.2	687.0	666.8	663.4
50°	1520.4	1411.5	1204.0	1038.6	900.8	798.2	721.6	666.8	629.4	612.1	609.2
52.5°	1397.6	1289.3	1101.4	949.8	824.2	729.1	659.9	609.2	577.5	561.9	561.9
55°	1273.1	1174.0	1002.8	864.5	752.1	664.0	604.6	558.5	529.7	515.8	512.9
57.5°	1151.0	1062.2	908.3	782.1	683.0	605.2	549.8	511.2	485.9	471.5	469.7
60°	1032.2	955.6	815.5	702.6	616.1	548.7	499.1	464.0	440.9	430.0	430.0
62.5°	921.6	849.0	726.2	630.5	550.4	493.9	449.5	418.4	398.8	390.8	387.9
65°	807.5	746.4	643.8	554.4	488.7	439.2	402.3	375.8	358.5	350.4	347.5
67.5°	702.0	650.7	560.2	484.7	428.8	385.6	353.9	332.6	316.4	308.9	310.1
70°	595.9	554.4	476.6	417.9	371.2	332.0	307.8	289.3	277.8	269.2	271.5
72.5°	498.5	459.3	398.8	347.5	309.5	282.4	261.1	245.5	235.7	230.5	232.3
75°	398.8	370.6	323.9	283.6	254.2	233.4	213.8	202.9	195.4	192.5	191.3
77.5°	310.1	285.9	251.9	221.9	200.0	183.9	170.0	163.1	155.6	153.9	153.9
80°	221.9	206.9	180.4	162.5	145.8	135.4	128.5	122.2	119.9	118.2	117.6
82.5°	146.4	133.7	119.9	108.4	99.7	93.4	88.2	87.0	84.1	83.6	84.1
85°	76.7	72.0	65.1	59.9	59.4	56.5	55.9	56.5	55.9	55.3	55.3
87.5°	27.7	25.4	25.4	25.9	27.7	29.4	30.0	32.3	33.4	34.6	35.2
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: P#  
 CATALOG NUMBER: AXCL8A-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)