

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-C-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-C-GRF
Description: AXCENT CUTOFF WALLPACK WITH FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8122 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.29' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

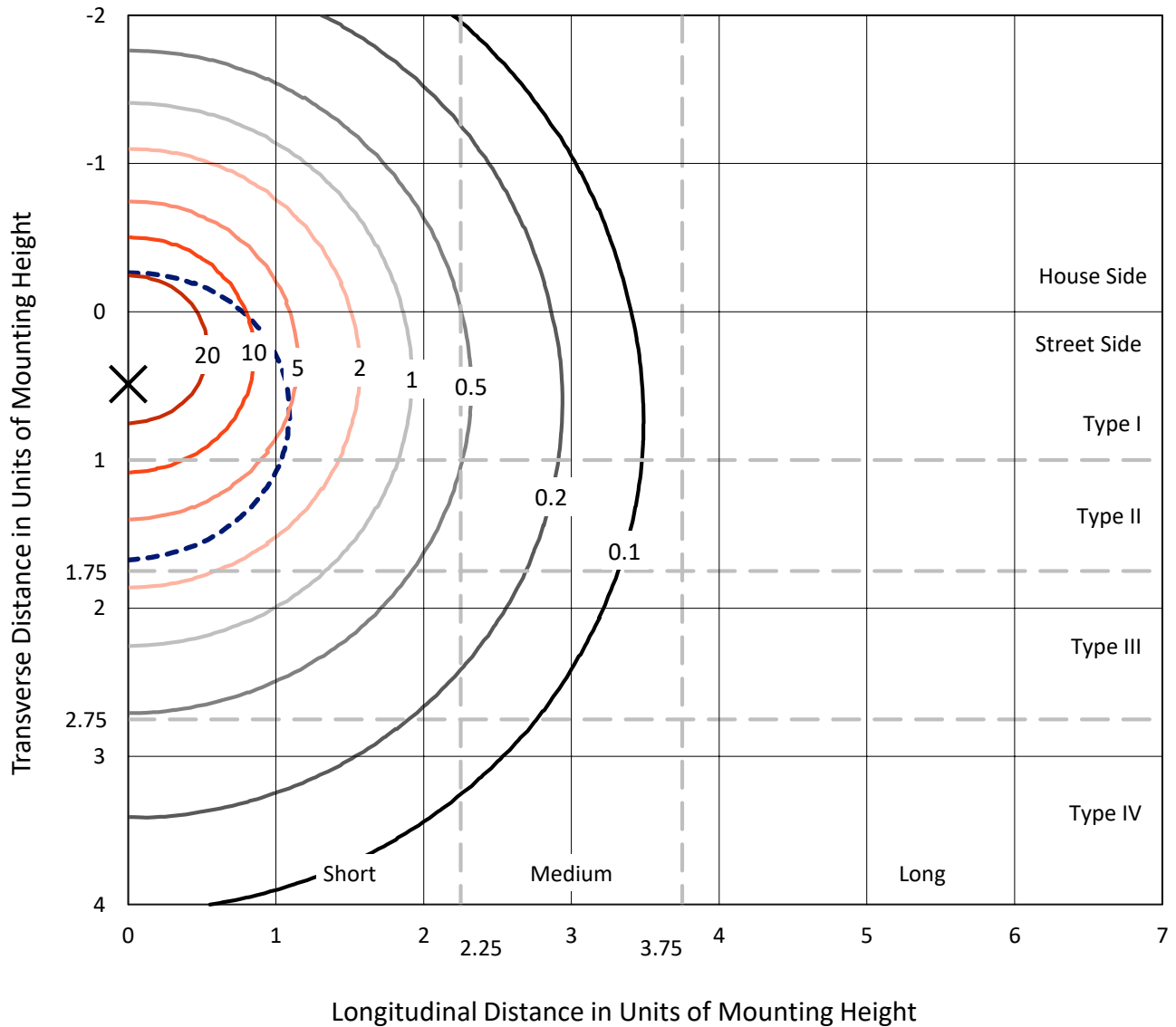
Input Watts (W): 72
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

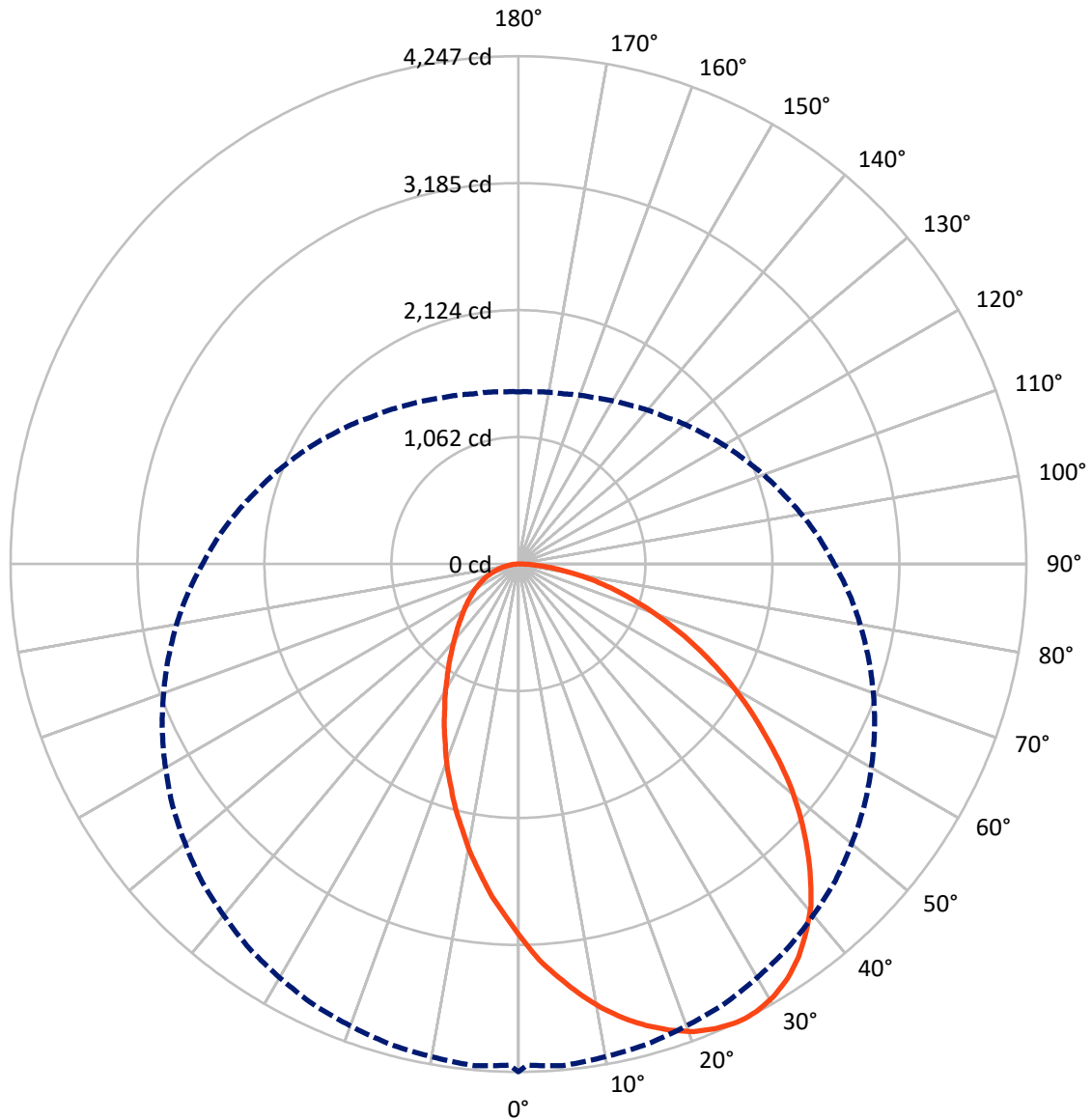
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 36.2 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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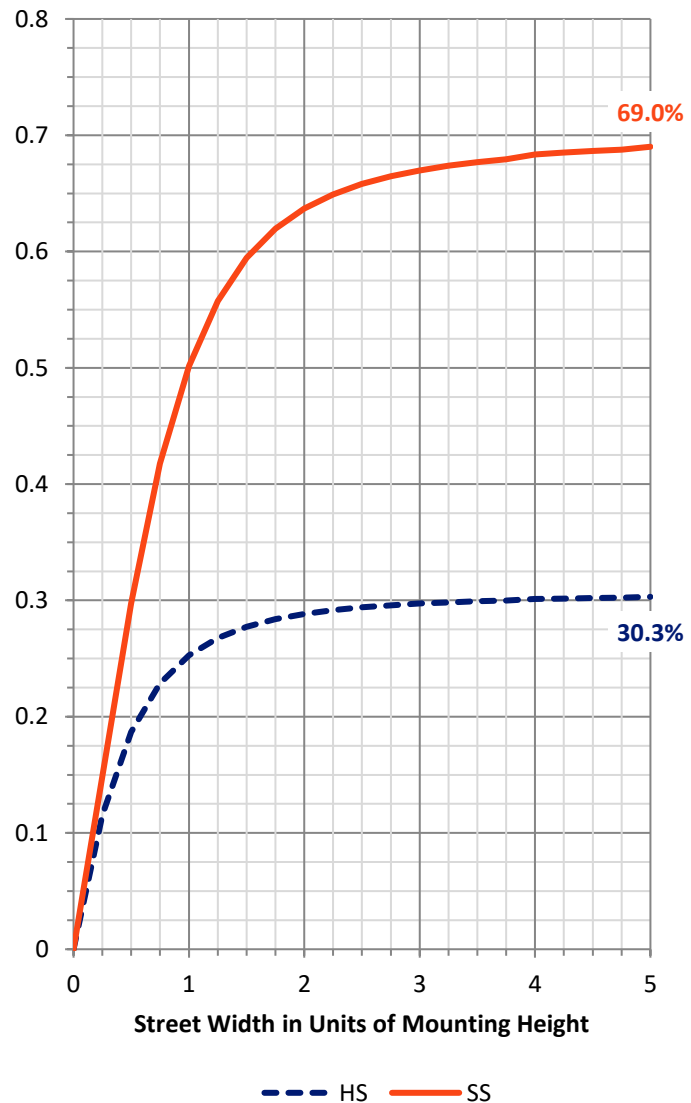
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2487.3	0.0	2487.3
	% Fixture	30.6	0.0	30.6
Street Side	Lumens	5634.7	0.0	5634.7
	% Fixture	69.4	0.0	69.4
Total	Lumens	8122.0	0.0	8122.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.2	3.6
10°-20°	848.1	10.4
20°-30°	1275.0	15.7
30°-40°	1495.7	18.4
40°-50°	1472.1	18.1
50°-60°	1242.9	15.3
60°-70°	887.0	10.9
70°-80°	480.8	5.9
80°-90°	124.1	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°	8122.0	100.0
0°-180°	8122.0	100.0



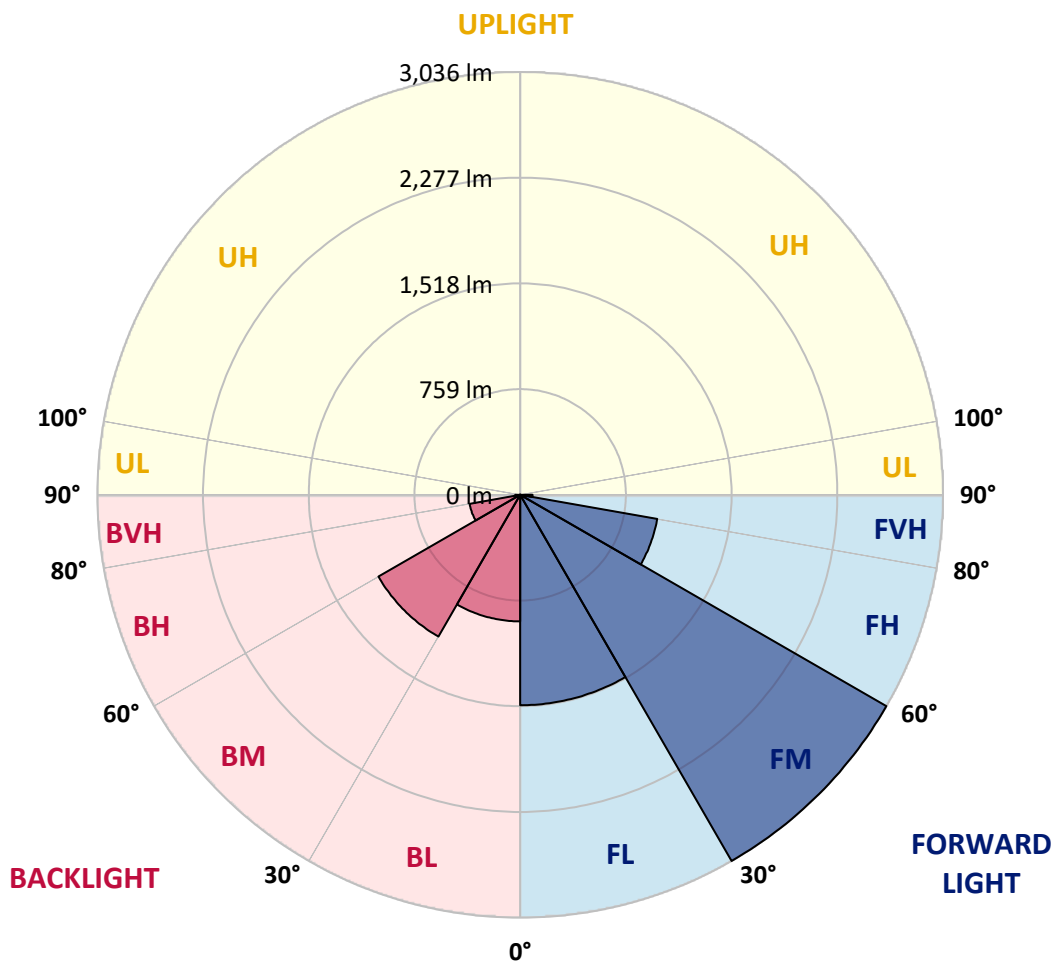
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1510.9	18.6			
FM	(30°-60°)	3035.8	37.4			
FH	(60°-80°)	999.0	12.3			G1/1800
FVH	(80°-90°)	89.0	1.1			G1/100
BL	(0°-30°)	908.5	11.2	B2/1000		
BM	(30°-60°)	1174.8	14.5	B2/2500		
BH	(60°-80°)	368.8	4.5	B1/500		G1/500
BVH	(80°-90°)	35.1	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°	3131.5	3131.5	3131.5	3131.5	3131.5	3131.5	3131.5	3131.5	3131.5	3131.5	3131.5
2.5°	3315.1	3283.3	3299.8	3296.4	3278.8	3268.0	3251.6	3224.4	3201.2	3170.6	3141.7
5°	3469.2	3437.4	3453.3	3442.5	3422.7	3388.7	3352.5	3307.1	3258.4	3198.9	3142.8
7.5°	3623.8	3586.4	3601.2	3584.7	3551.3	3509.4	3452.2	3377.4	3305.4	3219.3	3134.9
10°	3770.6	3724.1	3740.6	3716.8	3672.6	3610.2	3536.6	3442.5	3341.7	3230.1	3117.9
12.5°	3895.8	3846.5	3869.7	3836.9	3784.2	3704.3	3613.6	3496.9	3369.4	3231.2	3090.7
15°	4005.2	3959.8	3978.5	3942.3	3880.5	3789.3	3674.8	3538.3	3383.6	3221.6	3053.9
17.5°	4099.2	4054.4	4074.8	4030.1	3959.8	3853.3	3721.9	3561.5	3387.0	3198.9	3007.4
20°	4175.1	4121.9	4142.8	4095.2	4017.6	3898.6	3753.6	3572.8	3374.5	3164.3	2950.2
22.5°	4221.0	4170.0	4189.9	4139.4	4052.7	3924.7	3764.4	3567.8	3349.6	3117.3	2881.1
25°	4245.9	4191.6	4210.3	4155.9	4064.1	3929.2	3755.9	3543.4	3309.4	3060.1	2808.5
26°	4247.1	4191.6	4212.0	4156.4	4062.9	3924.1	3746.8	3529.8	3286.2	3030.1	2773.4
27.5°	4238.6	4183.6	4202.9	4146.8	4051.6	3908.8	3726.4	3504.3	3249.9	2983.6	2716.2
30°	4200.6	4147.9	4166.1	4110.5	4010.8	3865.2	3674.8	3440.8	3177.4	2898.1	2621.0
32.5°	4132.6	4078.2	4096.4	4043.1	3943.4	3790.4	3600.6	3357.0	3088.4	2800.6	2511.6
35°	4035.2	3984.8	4005.2	3947.4	3844.2	3695.2	3502.6	3257.8	2983.6	2691.3	2397.2
37.5°	3906.0	3857.8	3877.7	3821.6	3727.5	3576.8	3382.5	3136.0	2862.4	2568.9	2277.6
40°	3766.6	3712.2	3727.0	3669.7	3582.5	3428.9	3245.9	3003.4	2726.4	2440.3	2145.6
42.5°	3580.8	3538.3	3557.0	3506.6	3411.9	3266.9	3088.4	2851.0	2588.1	2299.7	2016.5
45°	3384.7	3345.7	3364.3	3315.6	3231.2	3099.8	2917.9	2691.8	2433.5	2158.1	1884.4
47.5°	3178.5	3143.9	3151.9	3112.8	3024.4	2903.2	2733.2	2516.2	2270.9	2010.8	1751.3
50°	2962.6	2926.4	2932.0	2900.9	2820.4	2708.2	2542.8	2346.2	2111.1	1868.6	1612.5
52.5°	2725.8	2701.5	2716.2	2676.0	2600.6	2496.9	2350.2	2160.9	1942.8	1713.9	1483.9
55°	2489.6	2476.5	2486.2	2452.2	2386.4	2287.3	2157.0	1982.5	1785.3	1566.0	1353.6
57.5°	2269.7	2244.2	2258.4	2231.8	2169.4	2078.8	1959.2	1797.2	1614.8	1419.8	1228.3
60°	2044.8	2031.8	2035.7	2000.6	1955.3	1872.0	1760.9	1620.4	1449.9	1282.2	1098.0
62.5°	1817.6	1798.9	1810.2	1782.5	1733.2	1665.2	1573.4	1443.1	1296.3	1138.3	981.9
65°	1598.9	1584.7	1587.6	1565.5	1538.3	1468.0	1379.6	1269.1	1138.3	1000.6	861.8
67.5°	1380.2	1388.7	1377.4	1357.5	1328.6	1274.2	1197.7	1099.2	989.2	870.8	745.1
70°	1175.1	1179.6	1175.1	1161.5	1132.0	1095.8	1022.7	945.6	844.2	737.7	638.5
72.5°	977.9	990.4	985.8	973.4	946.8	904.8	850.4	785.8	704.8	614.7	532.6
75°	797.2	796.0	806.2	787.0	768.8	729.8	689.0	631.7	568.8	500.3	424.9
77.5°	622.7	624.4	618.1	612.5	596.6	574.5	542.8	491.2	442.5	384.7	327.5
80°	450.4	459.5	458.4	449.9	440.2	420.4	397.2	362.6	319.6	278.8	237.4
82.5°	304.3	319.0	309.4	306.5	299.7	282.7	265.7	240.2	216.4	187.5	154.7
85°	177.9	194.3	186.4	185.3	180.7	166.6	155.8	140.5	120.1	102.6	83.9
87.5°	83.9	103.7	96.9	92.9	88.4	82.2	74.2	65.7	53.8	41.9	30.0
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°	3131.5	3131.5	3131.5	3131.5	3131.5	3131.5	3131.5	3131.5	3131.5	3131.5	3131.5
2.5°	3126.4	3113.9	3085.6	3056.1	3032.3	3004.0	2991.0	2972.3	2964.3	2958.1	2951.9
5°	3111.7	3085.6	3030.6	2972.3	2925.2	2877.1	2849.9	2815.3	2797.2	2781.9	2789.8
7.5°	3090.7	3047.6	2964.3	2887.3	2811.9	2744.5	2697.5	2659.0	2631.2	2608.5	2610.2
10°	3060.1	3004.6	2896.4	2793.2	2693.5	2612.5	2553.0	2501.4	2457.3	2445.9	2443.7
12.5°	3019.3	2951.9	2816.5	2689.6	2576.2	2481.1	2399.5	2335.4	2292.4	2272.0	2264.1
15°	2969.4	2888.4	2731.5	2585.3	2452.7	2338.3	2249.3	2178.5	2136.6	2103.7	2106.0
17.5°	2910.0	2818.7	2636.9	2473.7	2328.6	2201.7	2099.7	2029.5	1967.7	1941.1	1936.0
20°	2842.5	2741.1	2542.8	2362.1	2198.9	2065.2	1954.1	1873.1	1813.1	1788.7	1787.0
22.5°	2765.5	2656.7	2439.1	2242.5	2073.7	1924.7	1813.1	1723.0	1668.0	1635.1	1631.7
25°	2679.9	2560.4	2328.6	2123.0	1943.4	1793.8	1675.9	1585.3	1525.2	1499.2	1495.2
26°	2641.4	2522.4	2285.6	2078.8	1895.2	1738.3	1621.6	1532.0	1472.5	1445.3	1440.2
27.5°	2585.9	2456.1	2217.0	2004.0	1816.5	1668.6	1545.1	1458.4	1389.8	1360.9	1356.4
30°	2479.9	2351.3	2100.3	1882.7	1695.8	1542.8	1420.4	1330.9	1273.1	1241.9	1241.4
32.5°	2368.3	2234.0	1985.3	1761.5	1574.0	1419.3	1303.7	1217.0	1159.2	1128.6	1124.1
35°	2254.4	2116.7	1869.7	1645.9	1461.8	1310.5	1194.9	1111.1	1056.7	1025.5	1026.1
37.5°	2128.6	1995.5	1746.2	1529.2	1351.9	1209.1	1095.8	1014.2	964.9	936.0	934.3
40°	2001.7	1872.5	1629.5	1421.5	1247.0	1108.8	1002.3	927.5	879.9	853.3	849.9
42.5°	1878.8	1747.3	1511.6	1312.2	1148.5	1017.6	916.2	850.4	802.8	782.4	778.5
45°	1751.9	1628.9	1396.1	1209.6	1051.6	934.3	840.8	777.9	734.9	715.0	712.8
47.5°	1619.3	1502.6	1294.1	1113.3	967.7	855.0	770.5	713.9	675.4	655.5	652.1
50°	1494.6	1387.6	1183.6	1021.0	885.6	784.7	709.4	655.5	618.7	601.7	598.9
52.5°	1374.0	1267.4	1082.7	933.7	810.2	716.7	648.7	598.9	567.7	552.4	552.4
55°	1251.6	1154.1	985.8	849.9	739.4	652.7	594.3	549.0	520.7	507.1	504.3
57.5°	1131.5	1044.2	892.9	768.8	671.4	594.9	540.5	502.6	477.6	463.5	461.8
60°	1014.7	939.4	801.7	690.7	605.7	539.4	490.7	456.1	433.4	422.7	422.7
62.5°	906.0	834.6	713.9	619.8	541.1	485.6	441.9	411.3	392.1	384.1	381.3
65°	793.8	733.7	632.9	545.0	480.5	431.7	395.5	369.4	352.4	344.5	341.6
67.5°	690.1	639.7	550.7	476.5	421.5	379.0	347.9	326.9	311.1	303.7	304.8
70°	585.8	545.0	468.6	410.8	364.9	326.3	302.6	284.4	273.1	264.6	266.9
72.5°	490.1	451.6	392.1	341.6	304.3	277.6	256.7	241.4	231.7	226.6	228.3
75°	392.1	364.3	318.4	278.8	249.9	229.5	210.2	199.4	192.1	189.2	188.1
77.5°	304.8	281.0	247.6	218.1	196.6	180.7	167.1	160.3	153.0	151.3	151.3
80°	218.1	203.4	177.3	159.8	143.3	133.1	126.3	120.1	117.8	116.1	115.6
82.5°	143.9	131.4	117.8	106.5	98.0	91.8	86.7	85.6	82.7	82.2	82.7
85°	75.4	70.8	64.0	58.9	58.4	55.5	55.0	55.5	55.0	54.4	54.4
87.5°	27.2	24.9	24.9	25.5	27.2	28.9	29.5	31.7	32.9	34.0	34.6
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-C-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)