

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: P231794

Luminaire Tested: **AXCL6A-GRF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231794
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: AXCL6A-GRF
Description: AXCENT CUTOFF WALLPACK WITH FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6470.9 lumens
Efficiency: N/A
Efficacy: 114.7 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

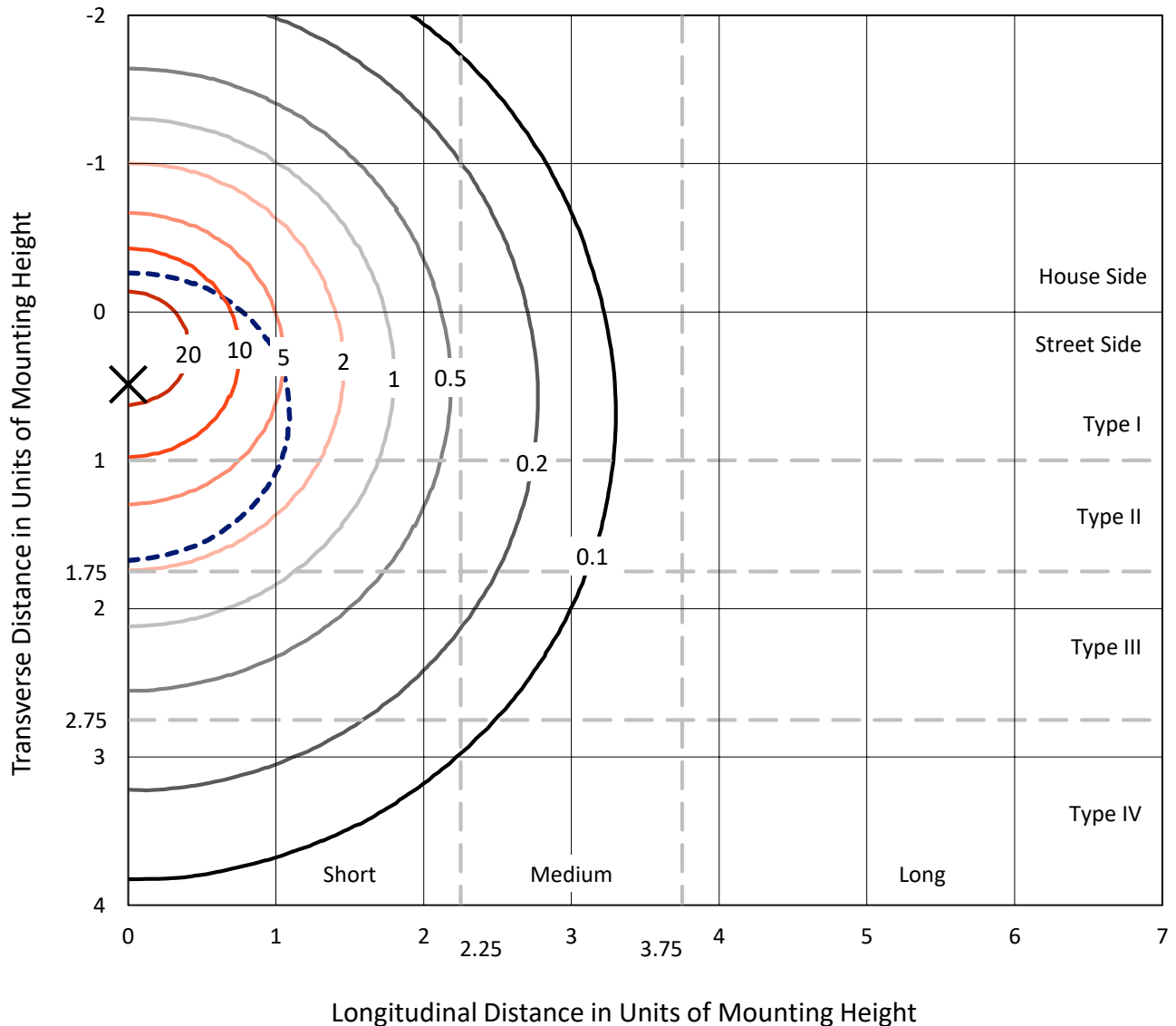
Input Watts (W): 56.43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

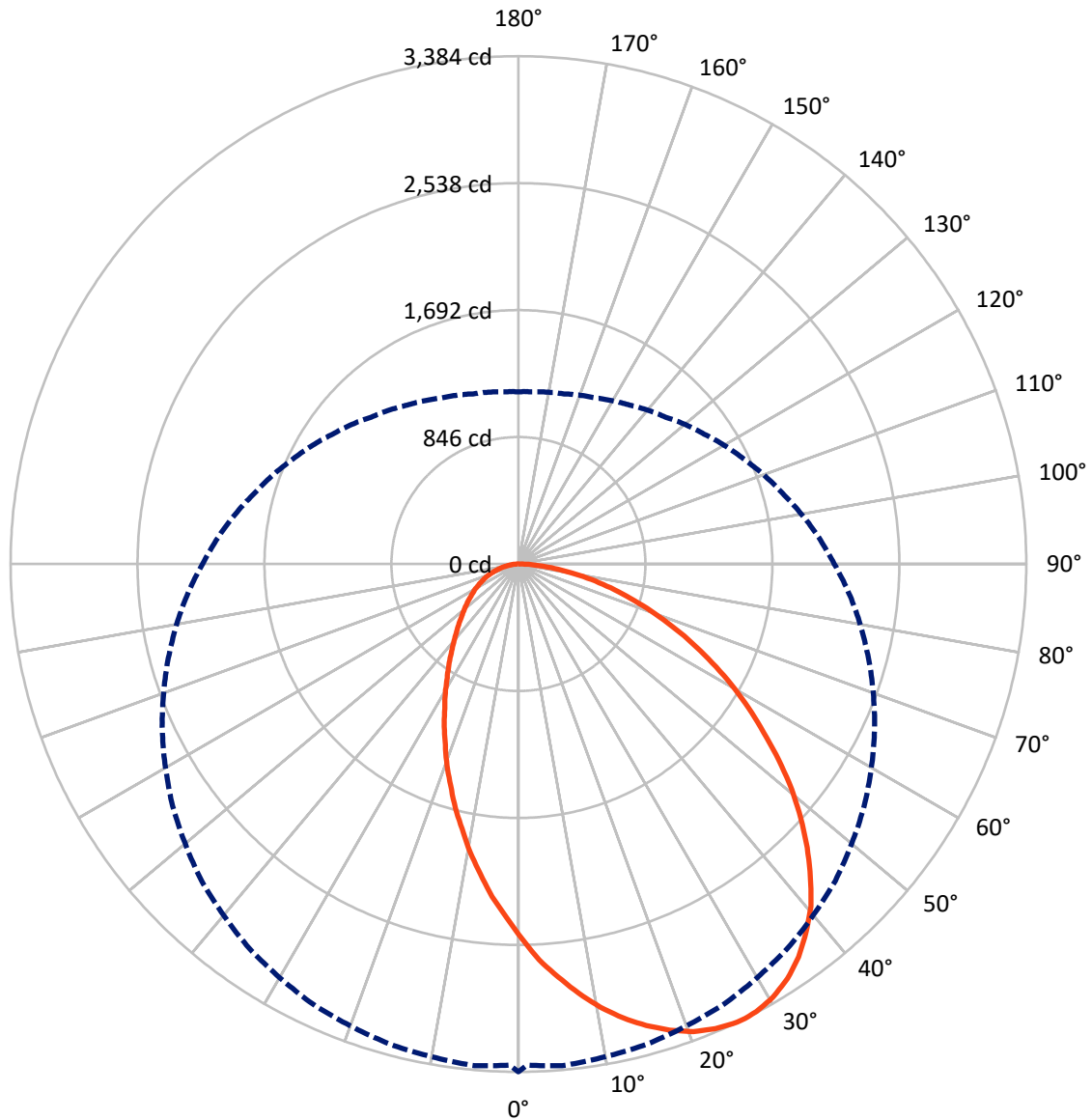
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.8 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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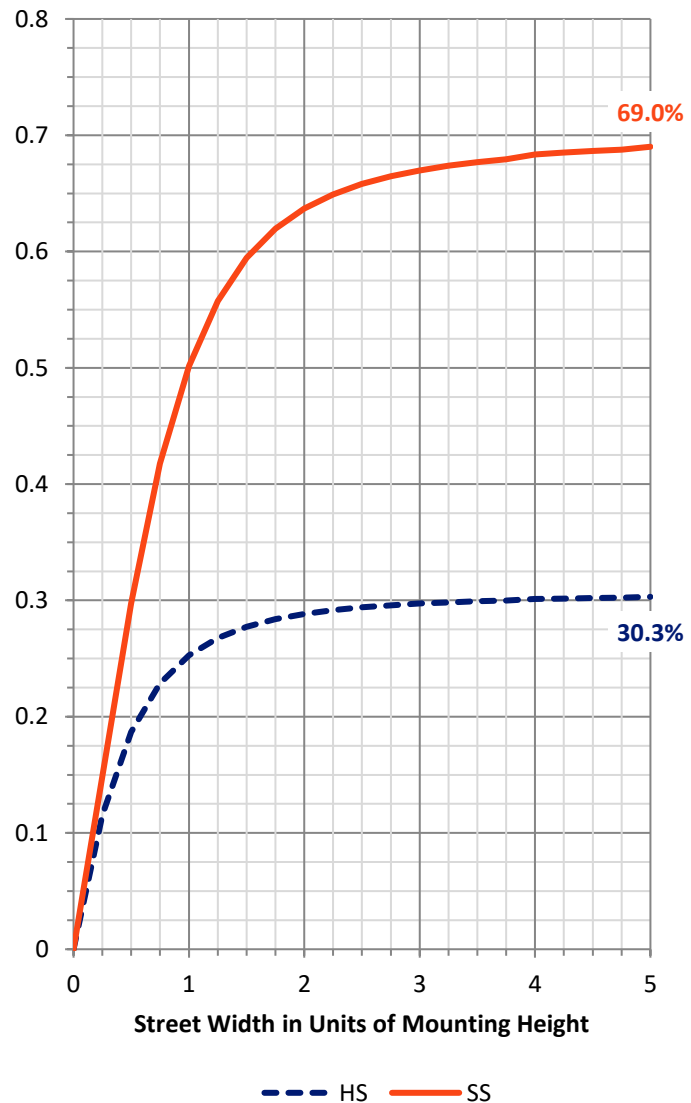
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1981.7	0.0	1981.7
	% Fixture	30.6	0.0	30.6
Street Side	Lumens	4489.2	0.0	4489.2
	% Fixture	69.4	0.0	69.4
Total	Lumens	6470.9	0.0	6470.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.0	3.6
10°-20°	675.7	10.4
20°-30°	1015.8	15.7
30°-40°	1191.6	18.4
40°-50°	1172.8	18.1
50°-60°	990.2	15.3
60°-70°	706.7	10.9
70°-80°	383.1	5.9
80°-90°	98.9	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°	6470.9	100.0
0°-180°	6470.9	100.0



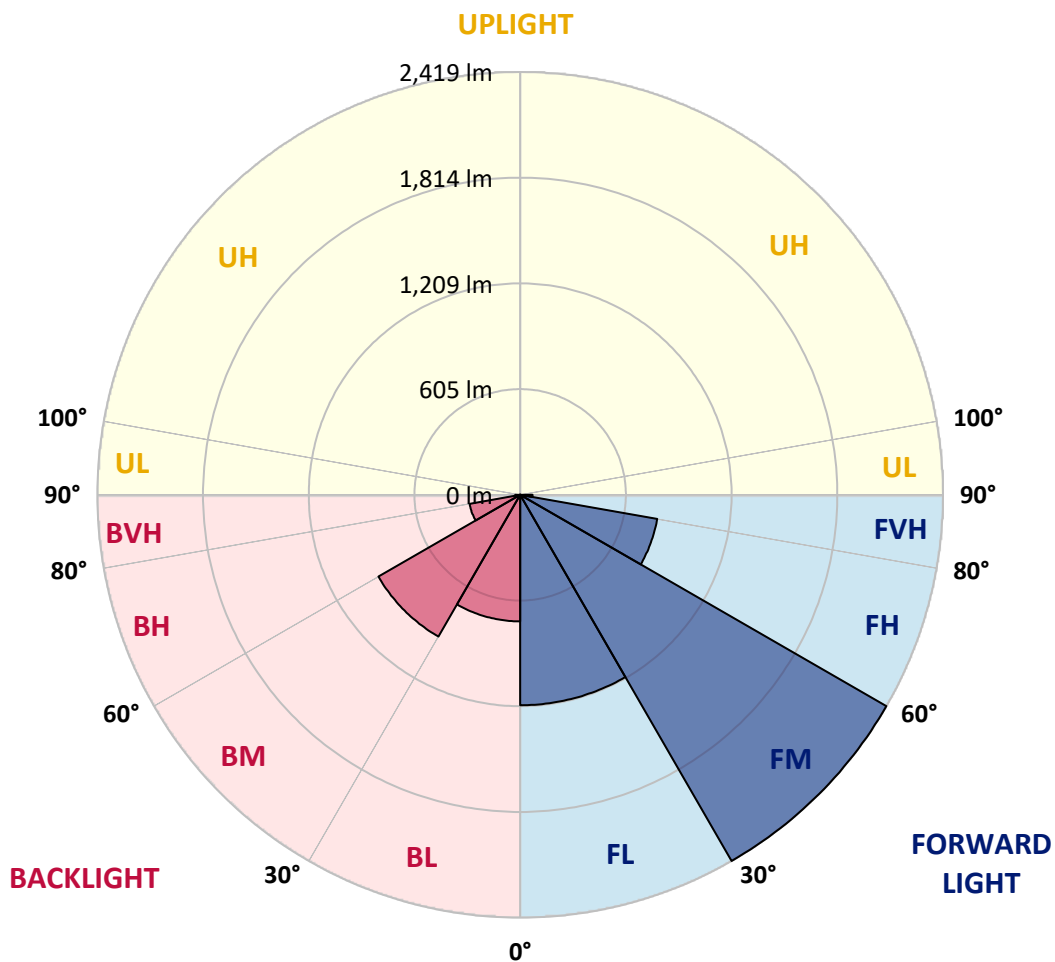
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1203.7	18.6			
FM	(30°-60°)	2418.7	37.4			
FH	(60°-80°)	795.9	12.3			G1/1800
FVH	(80°-90°)	70.9	1.1			G1/100
BL	(0°-30°)	723.8	11.2	B2/1000		
BM	(30°-60°)	936.0	14.5	B1/1000		
BH	(60°-80°)	293.9	4.5	B1/500		G1/500
BVH	(80°-90°)	28.0	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°	2494.9	2494.9	2494.9	2494.9	2494.9	2494.9	2494.9	2494.9	2494.9	2494.9	2494.9
2.5°	2641.1	2615.9	2629.0	2626.3	2612.3	2603.7	2590.6	2568.9	2550.4	2526.0	2503.0
5°	2763.9	2738.7	2751.3	2742.7	2726.9	2699.8	2670.9	2634.8	2596.0	2548.6	2503.9
7.5°	2887.2	2857.4	2869.1	2856.0	2829.4	2796.0	2750.4	2690.8	2633.5	2564.9	2497.6
10°	3004.1	2967.1	2980.2	2961.2	2926.0	2876.3	2817.6	2742.7	2662.4	2573.4	2484.1
12.5°	3103.8	3064.6	3083.1	3056.9	3014.9	2951.3	2879.0	2786.0	2684.5	2574.3	2462.4
15°	3191.0	3154.8	3169.7	3140.8	3091.6	3019.0	2927.8	2819.0	2695.8	2566.7	2433.1
17.5°	3265.9	3230.2	3246.5	3210.8	3154.8	3070.0	2965.3	2837.5	2698.5	2548.6	2396.0
20°	3326.4	3283.9	3300.6	3262.7	3200.9	3106.1	2990.5	2846.5	2688.5	2521.1	2350.4
22.5°	3362.9	3322.3	3338.1	3297.9	3228.9	3126.9	2999.1	2842.5	2668.7	2483.6	2295.4
25°	3382.8	3339.5	3354.4	3311.0	3237.9	3130.5	2992.3	2823.1	2636.6	2438.0	2237.6
26°	3383.7	3339.5	3355.7	3311.5	3237.0	3126.4	2985.1	2812.2	2618.1	2414.1	2209.6
27.5°	3376.9	3333.1	3348.5	3303.8	3228.0	3114.2	2968.9	2791.9	2589.2	2377.1	2164.0
30°	3346.7	3304.7	3319.2	3274.9	3195.5	3079.5	2927.8	2741.4	2531.5	2308.9	2088.2
32.5°	3292.5	3249.2	3263.6	3221.2	3141.8	3019.9	2868.7	2674.6	2460.6	2231.3	2001.1
35°	3214.9	3174.7	3191.0	3144.9	3062.8	2944.0	2790.6	2595.6	2377.1	2144.2	1909.9
37.5°	3112.0	3073.6	3089.4	3044.7	2969.8	2849.7	2694.9	2498.5	2280.5	2046.7	1814.6
40°	3000.9	2957.6	2969.3	2923.7	2854.2	2731.9	2586.1	2392.9	2172.1	1944.2	1709.5
42.5°	2852.9	2819.0	2833.9	2793.7	2718.3	2602.8	2460.6	2271.5	2062.0	1832.2	1606.5
45°	2696.7	2665.5	2680.4	2641.6	2574.3	2469.6	2324.7	2144.6	1938.8	1719.4	1501.4
47.5°	2532.4	2504.8	2511.1	2480.0	2409.6	2313.0	2177.6	2004.7	1809.2	1602.0	1395.3
50°	2360.4	2331.5	2336.0	2311.2	2247.1	2157.7	2025.9	1869.3	1681.9	1488.7	1284.7
52.5°	2171.7	2152.3	2164.0	2132.0	2071.9	1989.3	1872.4	1721.6	1547.9	1365.5	1182.2
55°	1983.5	1973.1	1980.7	1953.7	1901.3	1822.3	1718.5	1579.5	1422.4	1247.7	1078.4
57.5°	1808.3	1788.0	1799.3	1778.1	1728.4	1656.2	1560.9	1431.8	1286.5	1131.2	978.6
60°	1629.1	1618.7	1621.9	1593.9	1557.8	1491.4	1403.0	1291.0	1155.1	1021.5	874.8
62.5°	1448.1	1433.2	1442.2	1420.1	1380.8	1326.7	1253.5	1149.7	1032.8	906.9	782.3
65°	1273.9	1262.6	1264.8	1247.2	1225.6	1169.6	1099.2	1011.1	906.9	797.2	686.6
67.5°	1099.6	1106.4	1097.4	1081.6	1058.5	1015.2	954.3	875.7	788.1	693.8	593.6
70°	936.2	939.8	936.2	925.4	901.9	873.0	814.8	753.4	672.6	587.7	508.7
72.5°	779.1	789.0	785.4	775.5	754.3	720.9	677.6	626.1	561.5	489.8	424.3
75°	635.1	634.2	642.3	627.0	612.6	581.4	548.9	503.3	453.2	398.6	338.6
77.5°	496.1	497.4	492.5	488.0	475.3	457.7	432.4	391.4	352.5	306.5	260.9
80°	358.9	366.1	365.2	358.4	350.7	334.9	316.4	288.9	254.6	222.1	189.1
82.5°	242.4	254.1	246.5	244.2	238.8	225.2	211.7	191.4	172.4	149.4	123.2
85°	141.7	154.8	148.5	147.6	144.0	132.7	124.1	111.9	95.7	81.7	66.8
87.5°	66.8	82.6	77.2	74.0	70.4	65.5	59.1	52.4	42.9	33.4	23.9
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°	2494.9	2494.9	2494.9	2494.9	2494.9	2494.9	2494.9	2494.9	2494.9	2494.9	2494.9
2.5°	2490.8	2480.9	2458.3	2434.9	2415.9	2393.3	2382.9	2368.1	2361.7	2356.8	2351.8
5°	2479.1	2458.3	2414.5	2368.1	2330.6	2292.2	2270.5	2243.0	2228.6	2216.4	2222.7
7.5°	2462.4	2428.1	2361.7	2300.3	2240.3	2186.6	2149.1	2118.4	2096.3	2078.3	2079.6
10°	2438.0	2393.8	2307.6	2225.4	2146.0	2081.4	2034.0	1992.9	1957.7	1948.7	1946.9
12.5°	2405.5	2351.8	2243.9	2142.8	2052.5	1976.7	1911.7	1860.7	1826.4	1810.1	1803.8
15°	2365.8	2301.2	2176.2	2059.7	1954.1	1862.9	1792.1	1735.6	1702.2	1676.1	1677.9
17.5°	2318.4	2245.7	2100.8	1970.8	1855.3	1754.1	1672.9	1616.9	1567.7	1546.5	1542.4
20°	2264.7	2183.9	2025.9	1881.9	1751.9	1645.4	1556.9	1492.3	1444.5	1425.1	1423.7
22.5°	2203.3	2116.6	1943.3	1786.6	1652.1	1533.4	1444.5	1372.7	1328.9	1302.7	1300.0
25°	2135.1	2039.9	1855.3	1691.4	1548.3	1429.1	1335.2	1263.0	1215.2	1194.4	1191.2
26°	2104.4	2009.6	1821.0	1656.2	1509.9	1384.9	1291.9	1220.6	1173.2	1151.5	1147.5
27.5°	2060.2	1956.8	1766.3	1596.6	1447.2	1329.4	1231.0	1161.9	1107.3	1084.3	1080.7
30°	1975.8	1873.3	1673.3	1500.0	1351.0	1229.2	1131.7	1060.3	1014.3	989.5	989.0
32.5°	1886.9	1779.9	1581.7	1403.4	1254.0	1130.8	1038.7	969.6	923.6	899.2	895.6
35°	1796.1	1686.4	1489.6	1311.3	1164.6	1044.1	952.0	885.2	841.9	817.0	817.5
37.5°	1695.9	1589.8	1391.2	1218.3	1077.0	963.3	873.0	808.0	768.7	745.7	744.4
40°	1594.8	1491.9	1298.2	1132.6	993.5	883.4	798.5	738.9	701.0	679.8	677.1
42.5°	1496.8	1392.1	1204.3	1045.4	915.0	810.7	729.9	677.6	639.6	623.4	620.2
45°	1395.7	1297.8	1112.3	963.7	837.8	744.4	669.9	619.8	585.5	569.7	567.9
47.5°	1290.1	1197.1	1031.0	887.0	771.0	681.2	613.9	568.8	538.1	522.3	519.6
50°	1190.8	1105.5	943.0	813.4	705.5	625.2	565.2	522.3	492.9	479.4	477.1
52.5°	1094.6	1009.8	862.6	743.9	645.5	571.0	516.9	477.1	452.3	440.1	440.1
55°	997.1	919.5	785.4	677.1	589.1	520.0	473.5	437.4	414.8	404.0	401.7
57.5°	901.4	831.9	711.4	612.6	534.9	474.0	430.6	400.4	380.5	369.2	367.9
60°	808.5	748.4	638.7	550.3	482.5	429.7	390.9	363.4	345.3	336.7	336.7
62.5°	721.8	664.9	568.8	493.8	431.1	386.9	352.1	327.7	312.4	306.0	303.8
65°	632.4	584.6	504.2	434.2	382.8	344.0	315.1	294.3	280.8	274.5	272.2
67.5°	549.8	509.6	438.8	379.6	335.8	302.0	277.2	260.5	247.8	242.0	242.9
70°	466.7	434.2	373.3	327.3	290.7	260.0	241.0	226.6	217.6	210.8	212.6
72.5°	390.5	359.8	312.4	272.2	242.4	221.2	204.5	192.3	184.6	180.6	181.9
75°	312.4	290.3	253.7	222.1	199.1	182.8	167.5	158.9	153.0	150.8	149.9
77.5°	242.9	223.9	197.3	173.8	156.6	144.0	133.2	127.7	121.9	120.5	120.5
80°	173.8	162.1	141.3	127.3	114.2	106.1	100.7	95.7	93.9	92.5	92.1
82.5°	114.7	104.7	93.9	84.9	78.1	73.1	69.1	68.2	65.9	65.5	65.9
85°	60.0	56.4	51.0	46.9	46.5	44.2	43.8	44.2	43.8	43.3	43.3
87.5°	21.7	19.9	19.9	20.3	21.7	23.0	23.5	25.3	26.2	27.1	27.5
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



REPORT NUMBER: P231794
 CATALOG NUMBER: AXCL6A-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)