

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7201 lumens
Efficiency: N/A
Efficacy: 100.0 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

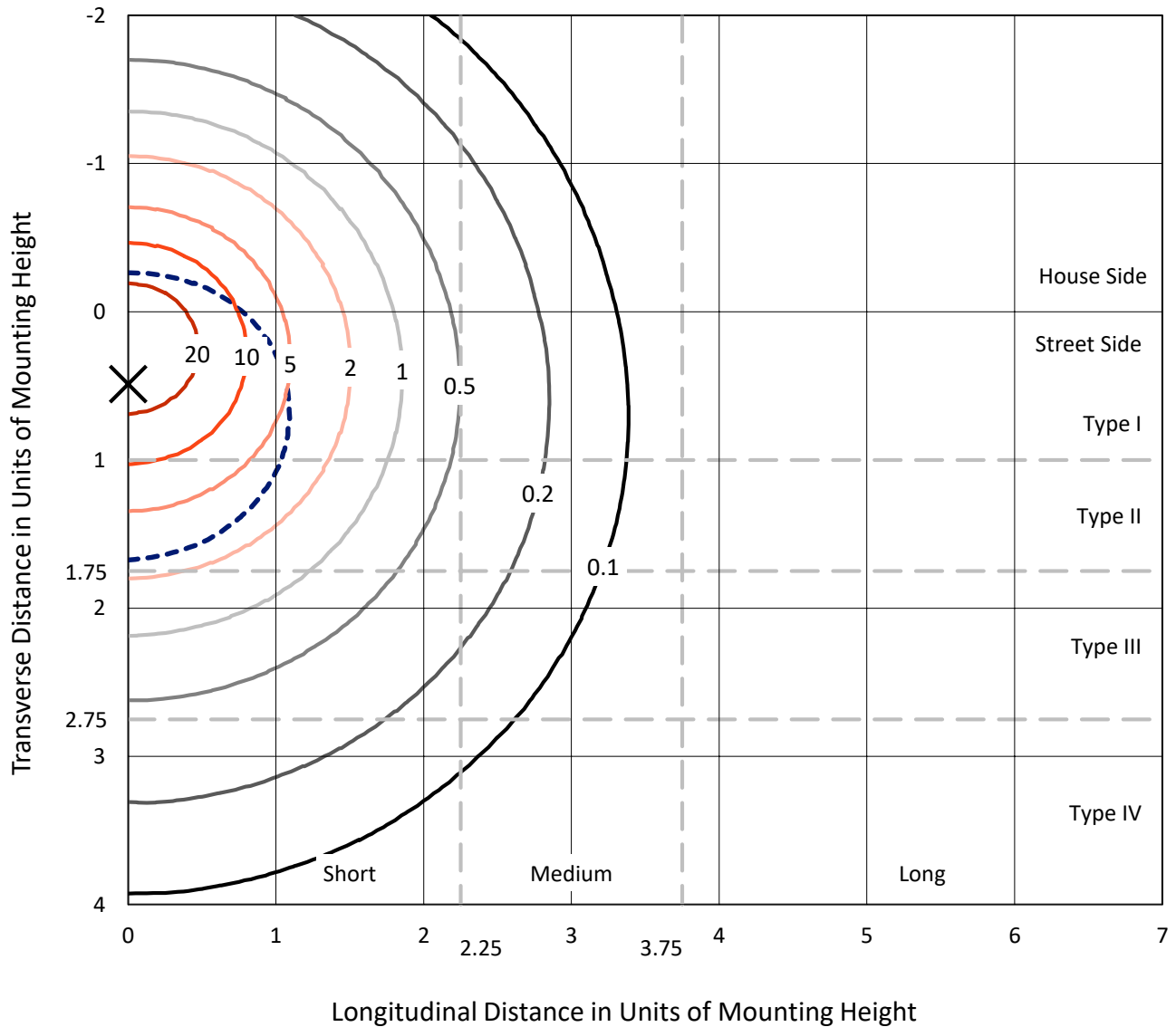
Input Watts (W): 72
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

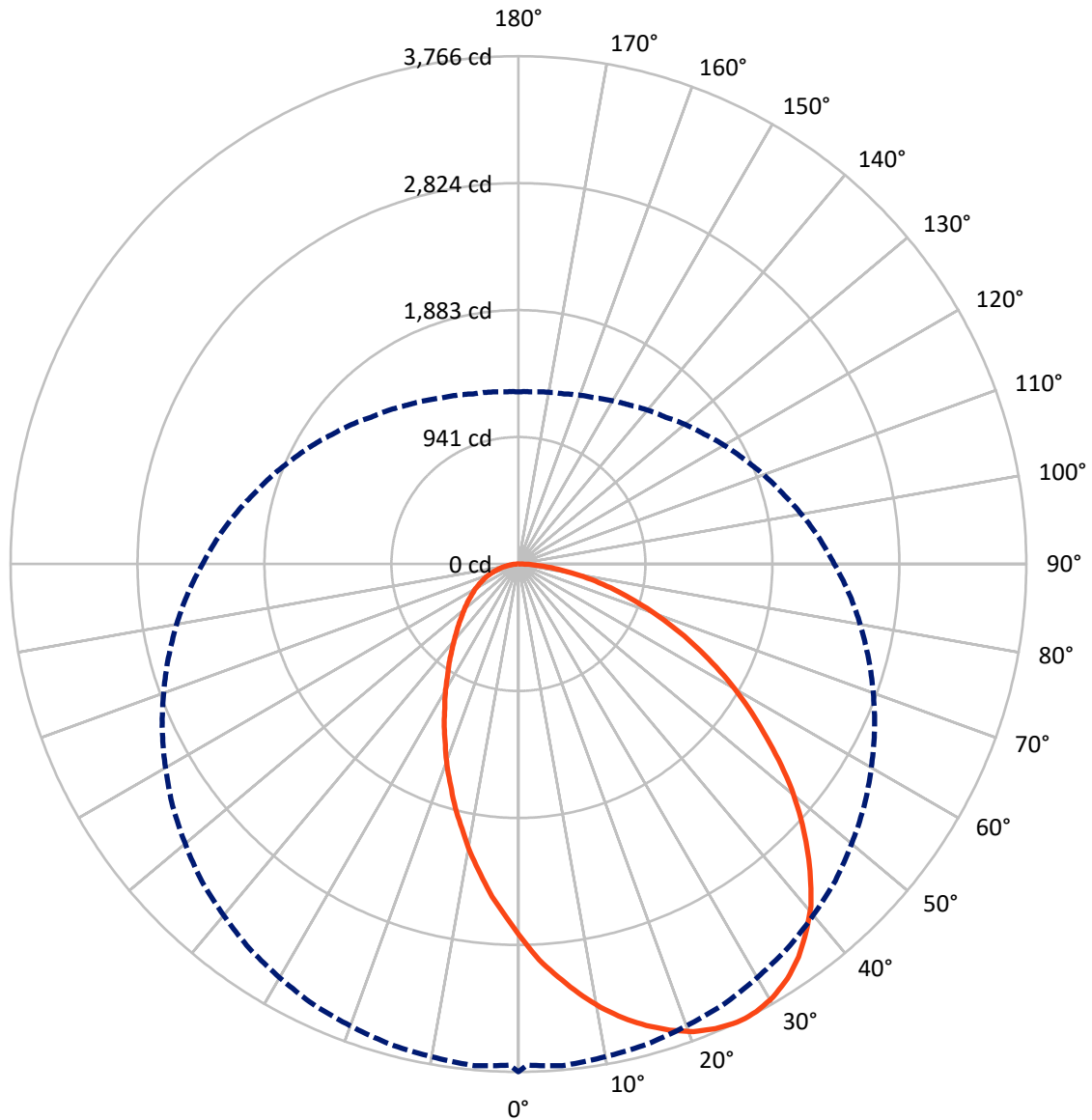
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 32.1 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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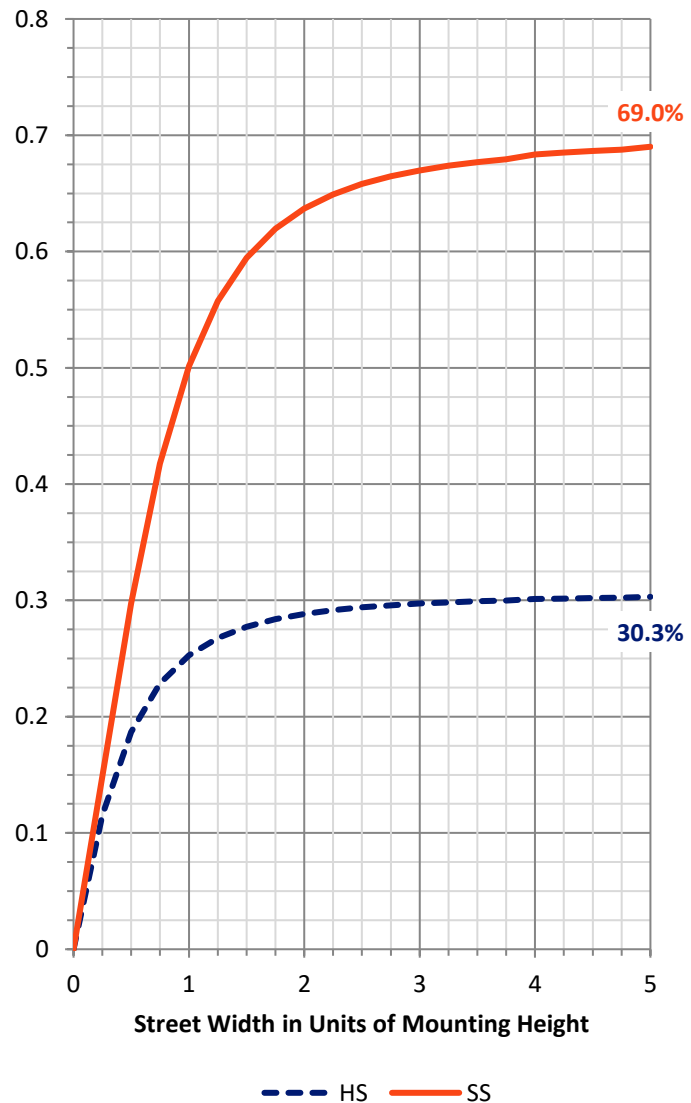
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2205.2	0.0	2205.2
	% Fixture	30.6	0.0	30.6
Street Side	Lumens	4995.7	0.0	4995.7
	% Fixture	69.4	0.0	69.4
Total	Lumens	7201.0	0.0	7201.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.6	3.6
10°-20°	752.0	10.4
20°-30°	1130.5	15.7
30°-40°	1326.1	18.4
40°-50°	1305.1	18.1
50°-60°	1102.0	15.3
60°-70°	786.4	10.9
70°-80°	426.3	5.9
80°-90°	110.1	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°	7201.0	100.0
0°-180°	7201.0	100.0

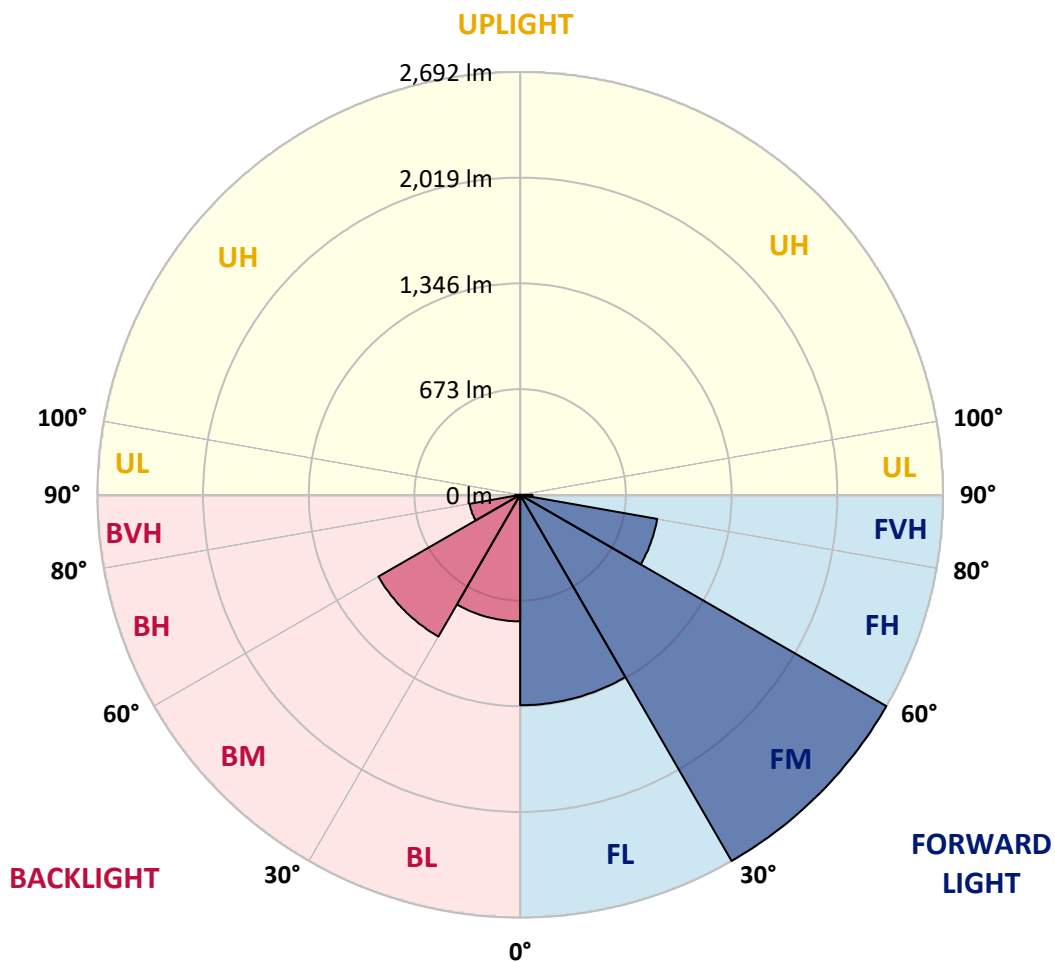


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1339.5	18.6			
FM	(30°-60°)	2691.6	37.4			
FH	(60°-80°)	885.7	12.3			G1/1800
FVH	(80°-90°)	78.9	1.1			G1/100
BL	(0°-30°)	805.5	11.2	B2/1000		
BM	(30°-60°)	1041.6	14.5	B2/2500		
BH	(60°-80°)	327.0	4.5	B1/500		G1/500
BVH	(80°-90°)	31.2	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°	2776.4	2776.4	2776.4	2776.4	2776.4	2776.4	2776.4	2776.4	2776.4	2776.4	2776.4
2.5°	2939.1	2911.0	2925.6	2922.6	2907.0	2897.4	2882.9	2858.8	2838.2	2811.0	2785.4
5°	3075.8	3047.6	3061.7	3052.2	3034.6	3004.4	2972.3	2932.1	2888.9	2836.2	2786.4
7.5°	3212.9	3179.8	3192.8	3178.3	3148.6	3111.4	3060.7	2994.4	2930.6	2854.2	2779.4
10°	3343.0	3301.8	3316.4	3295.3	3256.1	3200.9	3135.6	3052.2	2962.8	2863.8	2764.3
12.5°	3454.0	3410.3	3430.9	3401.8	3355.1	3284.2	3203.9	3100.4	2987.4	2864.8	2740.2
15°	3551.0	3510.8	3527.4	3495.2	3440.5	3359.6	3258.1	3137.1	2999.9	2856.3	2707.6
17.5°	3634.4	3594.7	3612.8	3573.1	3510.8	3416.4	3299.8	3157.7	3002.9	2836.2	2666.4
20°	3701.7	3654.5	3673.0	3630.9	3562.0	3456.5	3327.9	3167.7	2991.9	2805.5	2615.6
22.5°	3742.4	3697.2	3714.7	3670.0	3593.2	3479.7	3337.5	3163.2	2969.8	2763.8	2554.4
25°	3764.5	3716.3	3732.8	3684.6	3603.2	3483.7	3330.0	3141.6	2934.1	2713.1	2490.1
26°	3765.5	3716.3	3734.3	3685.1	3602.2	3479.1	3321.9	3129.5	2913.5	2686.5	2458.9
27.5°	3757.9	3709.2	3726.3	3676.6	3592.2	3465.6	3303.8	3106.9	2881.4	2645.3	2408.2
30°	3724.3	3677.6	3693.6	3644.4	3556.0	3426.9	3258.1	3050.7	2817.1	2569.4	2323.8
32.5°	3664.0	3615.8	3631.9	3584.6	3496.2	3360.6	3192.3	2976.3	2738.2	2483.0	2226.8
35°	3577.6	3532.9	3551.0	3499.7	3408.3	3276.2	3105.4	2888.4	2645.3	2386.1	2125.4
37.5°	3463.1	3420.4	3438.0	3388.2	3304.8	3171.2	2998.9	2780.4	2537.8	2277.6	2019.4
40°	3339.5	3291.3	3304.3	3253.6	3176.2	3040.1	2877.9	2662.9	2417.2	2163.5	1902.3
42.5°	3174.7	3137.1	3153.6	3108.9	3025.0	2896.4	2738.2	2527.7	2294.7	2039.0	1787.8
45°	3000.9	2966.3	2982.8	2939.6	2864.8	2748.3	2587.0	2386.6	2157.5	1913.4	1670.8
47.5°	2818.1	2787.4	2794.5	2759.8	2681.4	2573.9	2423.2	2230.9	2013.3	1782.8	1552.7
50°	2626.7	2594.5	2599.6	2571.9	2500.6	2401.1	2254.5	2080.2	1871.7	1656.7	1429.6
52.5°	2416.7	2395.1	2408.2	2372.5	2305.7	2213.8	2083.7	1915.9	1722.5	1519.6	1315.6
55°	2207.2	2195.7	2204.2	2174.1	2115.8	2027.9	1912.4	1757.7	1582.8	1388.4	1200.1
57.5°	2012.3	1989.7	2002.3	1978.7	1923.4	1843.1	1737.1	1593.4	1431.6	1258.8	1089.1
60°	1812.9	1801.4	1804.9	1773.7	1733.5	1659.7	1561.2	1436.7	1285.5	1136.8	973.5
62.5°	1611.5	1594.9	1604.9	1580.3	1536.6	1476.4	1395.0	1279.4	1149.3	1009.2	870.5
65°	1417.6	1405.0	1407.5	1387.9	1363.8	1301.5	1223.2	1125.2	1009.2	887.1	764.0
67.5°	1223.7	1231.2	1221.2	1203.6	1178.0	1129.7	1061.9	974.5	877.1	772.1	660.6
70°	1041.8	1045.9	1041.8	1029.8	1003.7	971.5	906.7	838.4	748.5	654.0	566.1
72.5°	867.0	878.1	874.1	863.0	839.4	802.2	754.0	696.7	624.9	545.0	472.2
75°	706.8	705.8	714.8	697.7	681.7	647.0	610.8	560.1	504.3	443.6	376.7
77.5°	552.1	553.6	548.0	543.0	529.0	509.4	481.2	435.5	392.3	341.1	290.3
80°	399.4	407.4	406.4	398.9	390.3	372.7	352.1	321.5	283.3	247.1	210.5
82.5°	269.8	282.8	274.3	271.8	265.7	250.7	235.6	213.0	191.9	166.3	137.1
85°	157.7	172.3	165.3	164.3	160.2	147.7	138.1	124.6	106.5	90.9	74.3
87.5°	74.3	91.9	85.9	82.4	78.4	72.8	65.8	58.3	47.7	37.2	26.6
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



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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°	2776.4	2776.4	2776.4	2776.4	2776.4	2776.4	2776.4	2776.4	2776.4	2776.4	2776.4
2.5°	2771.9	2760.8	2735.7	2709.6	2688.5	2663.4	2651.8	2635.2	2628.2	2622.7	2617.1
5°	2758.8	2735.7	2687.0	2635.2	2593.5	2550.8	2526.7	2496.1	2480.0	2466.4	2473.5
7.5°	2740.2	2702.0	2628.2	2559.9	2493.1	2433.3	2391.6	2357.4	2332.8	2312.7	2314.2
10°	2713.1	2663.9	2567.9	2476.5	2388.1	2316.3	2263.5	2217.8	2178.6	2168.6	2166.6
12.5°	2676.9	2617.1	2497.1	2384.6	2284.1	2199.7	2127.4	2070.6	2032.4	2014.4	2007.3
15°	2632.7	2560.9	2421.7	2292.1	2174.6	2073.1	1994.3	1931.5	1894.3	1865.2	1867.2
17.5°	2580.0	2499.1	2337.9	2193.2	2064.6	1952.1	1861.6	1799.4	1744.6	1721.0	1716.5
20°	2520.2	2430.3	2254.5	2094.2	1949.5	1831.0	1732.5	1660.7	1607.5	1585.9	1584.4
22.5°	2451.9	2355.4	2162.5	1988.2	1838.5	1706.4	1607.5	1527.6	1478.9	1449.7	1446.7
25°	2376.0	2270.0	2064.6	1882.2	1723.0	1590.4	1485.9	1405.5	1352.3	1329.2	1325.7
26°	2341.9	2236.4	2026.4	1843.1	1680.3	1541.2	1437.7	1358.3	1305.6	1281.4	1276.9
27.5°	2292.6	2177.6	1965.6	1776.7	1610.5	1479.4	1369.9	1293.0	1232.2	1206.6	1202.6
30°	2198.7	2084.7	1862.1	1669.2	1503.5	1367.8	1259.3	1180.0	1128.7	1101.1	1100.6
32.5°	2099.7	1980.7	1760.2	1561.7	1395.5	1258.3	1155.9	1079.0	1027.8	1000.6	996.6
35°	1998.8	1876.7	1657.7	1459.3	1296.0	1161.9	1059.4	985.1	936.8	909.2	909.7
37.5°	1887.3	1769.2	1548.2	1355.8	1198.6	1072.0	971.5	899.2	855.5	829.9	828.3
40°	1774.7	1660.2	1444.7	1260.4	1105.6	983.1	888.6	822.3	780.1	756.5	753.5
42.5°	1665.7	1549.2	1340.2	1163.4	1018.2	902.2	812.3	754.0	711.8	693.7	690.2
45°	1553.2	1444.2	1237.7	1072.5	932.3	828.3	745.5	689.7	651.5	633.9	631.9
47.5°	1435.7	1332.2	1147.3	987.1	858.0	758.0	683.2	632.9	598.8	581.2	578.2
50°	1325.2	1230.2	1049.4	905.2	785.1	695.7	628.9	581.2	548.5	533.5	531.0
52.5°	1218.2	1123.7	960.0	827.8	718.3	635.4	575.2	531.0	503.3	489.8	489.8
55°	1109.7	1023.2	874.1	753.5	655.5	578.7	526.9	486.8	461.6	449.6	447.1
57.5°	1003.2	925.8	791.7	681.7	595.3	527.4	479.2	445.6	423.5	410.9	409.4
60°	899.7	832.9	710.8	612.3	537.0	478.2	435.0	404.4	384.3	374.7	374.7
62.5°	803.2	739.9	632.9	549.6	479.7	430.5	391.8	364.7	347.6	340.6	338.1
65°	703.8	650.5	561.1	483.2	426.0	382.8	350.6	327.5	312.5	305.4	302.9
67.5°	611.8	567.1	488.3	422.5	373.7	336.1	308.4	289.8	275.8	269.2	270.3
70°	519.4	483.2	415.4	364.2	323.5	289.3	268.2	252.2	242.1	234.6	236.6
72.5°	434.5	400.4	347.6	302.9	269.8	246.1	227.6	214.0	205.5	200.9	202.4
75°	347.6	323.0	282.3	247.1	221.5	203.4	186.4	176.8	170.3	167.8	166.8
77.5°	270.3	249.2	219.5	193.4	174.3	160.2	148.2	142.2	135.6	134.1	134.1
80°	193.4	180.3	157.2	141.7	127.1	118.0	112.0	106.5	104.5	103.0	102.5
82.5°	127.6	116.5	104.5	94.4	86.9	81.4	76.9	75.9	73.3	72.8	73.3
85°	66.8	62.8	56.8	52.2	51.7	49.2	48.7	49.2	48.7	48.2	48.2
87.5°	24.1	22.1	22.1	22.6	24.1	25.6	26.1	28.1	29.1	30.1	30.6
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-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)