

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: **AXCL8ARL-C**

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 (P29541)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: AXCL8ARL-C
Description: AXCENT RL WALLPACK
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9817.1 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 0.75' x H: 0.38')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U5 - G5

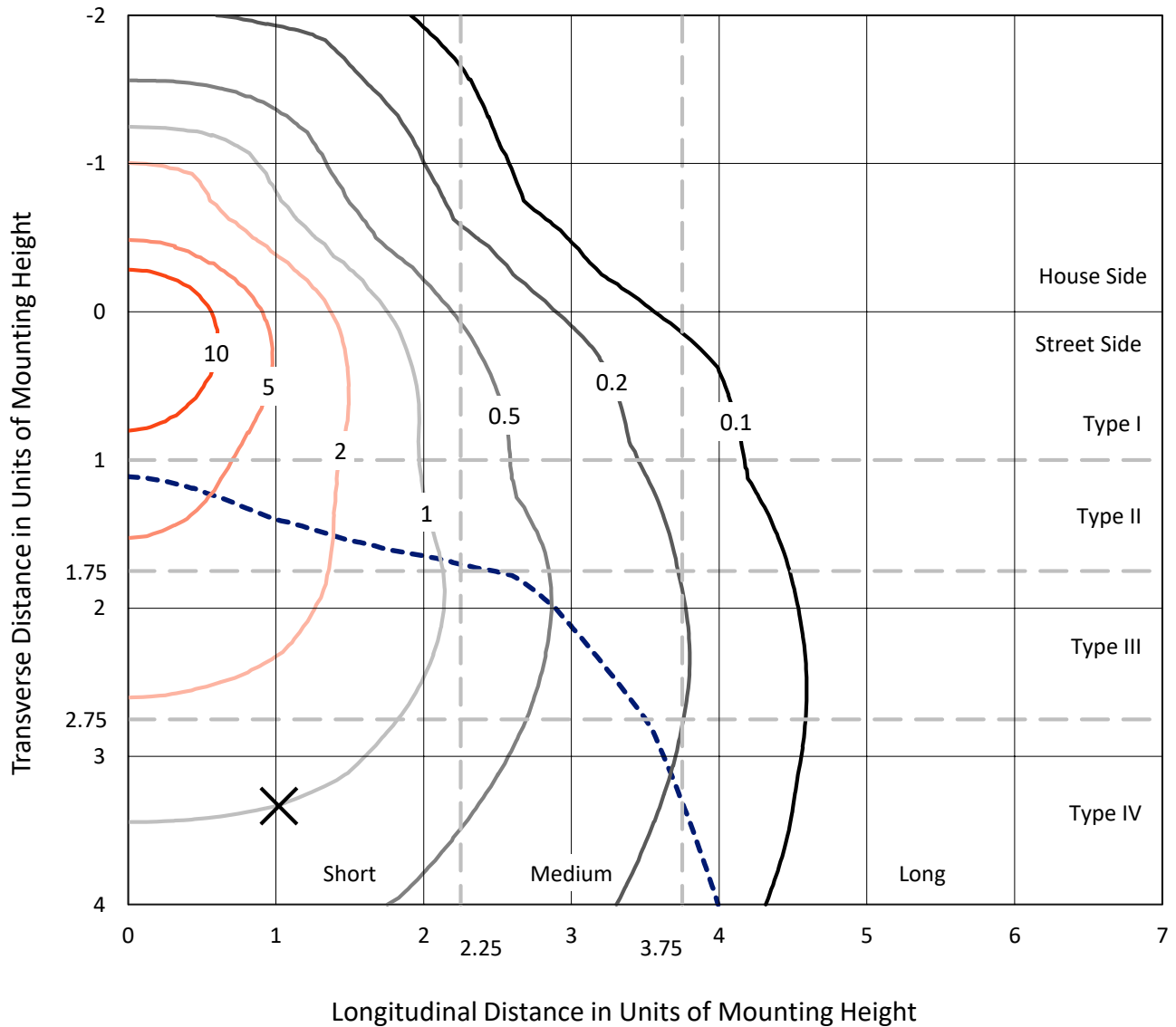
Input Watts (W): 72
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

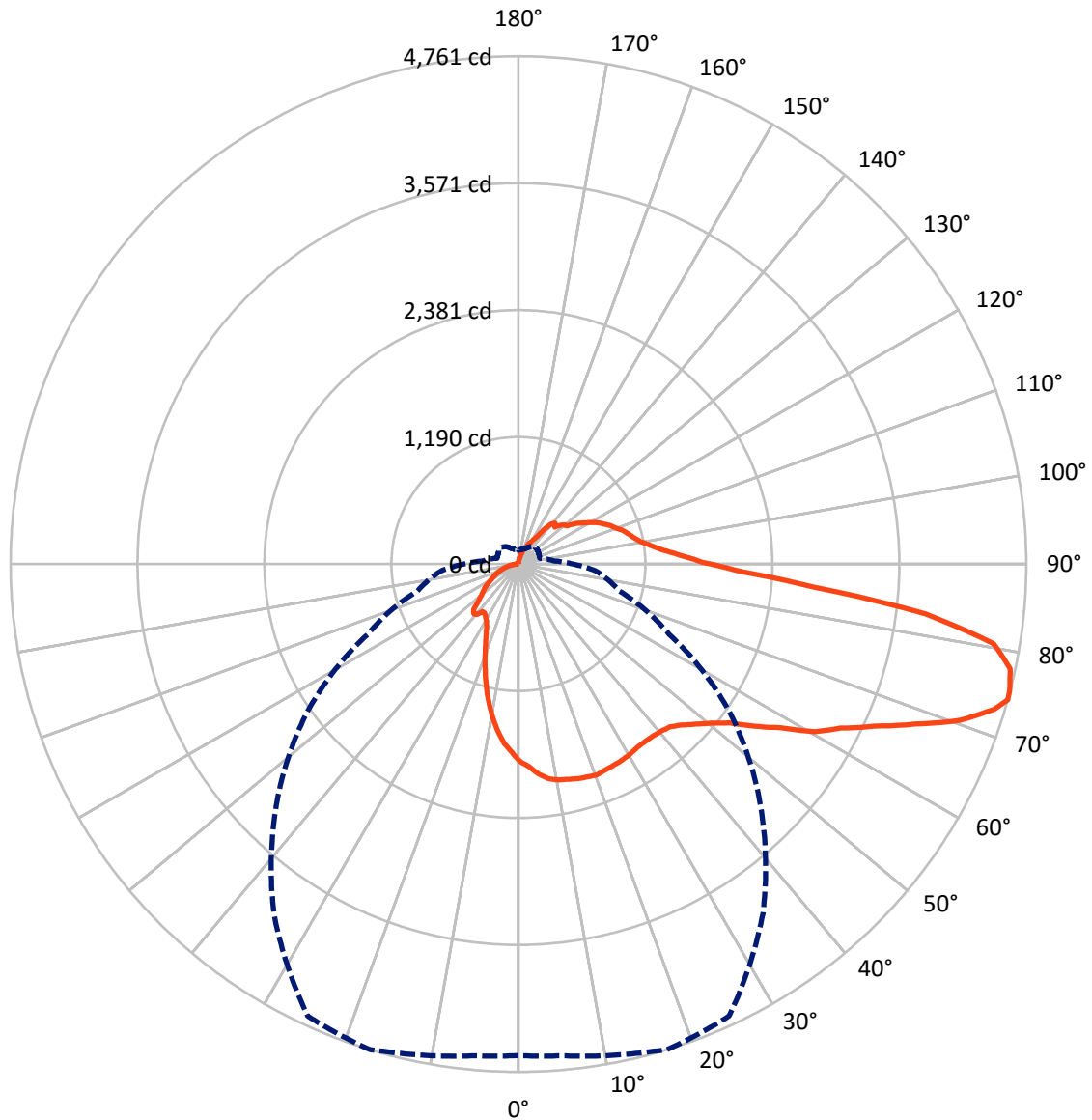
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 17-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1512.1	124.4	1636.5
	% Fixture	15.4	1.3	16.7
Street Side	Lumens	6600.4	1580.2	8180.6
	% Fixture	67.2	16.1	83.3
Total	Lumens	8112.5	1704.6	9817.1
	% Fixture	82.6	17.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.1	1.8
10°-20°	479.0	4.9
20°-30°	682.7	7.0
30°-40°	815.3	8.3
40°-50°	937.5	9.5
50°-60°	1080.3	11.0
60°-70°	1353.3	13.8
70°-80°	1615.4	16.5
80°-90°	975.0	9.9
90°-100°	520.6	5.3
100°-110°	393.8	4.0
110°-120°	307.2	3.1
120°-130°	212.6	2.2
130°-140°	145.4	1.5
140°-150°	80.4	0.8
150°-160°	33.4	0.3
160°-170°	10.4	0.1
170°-180°	1.0	0.0
0°-90°	8112.5	82.6
0°-180°	9817.1	100.0

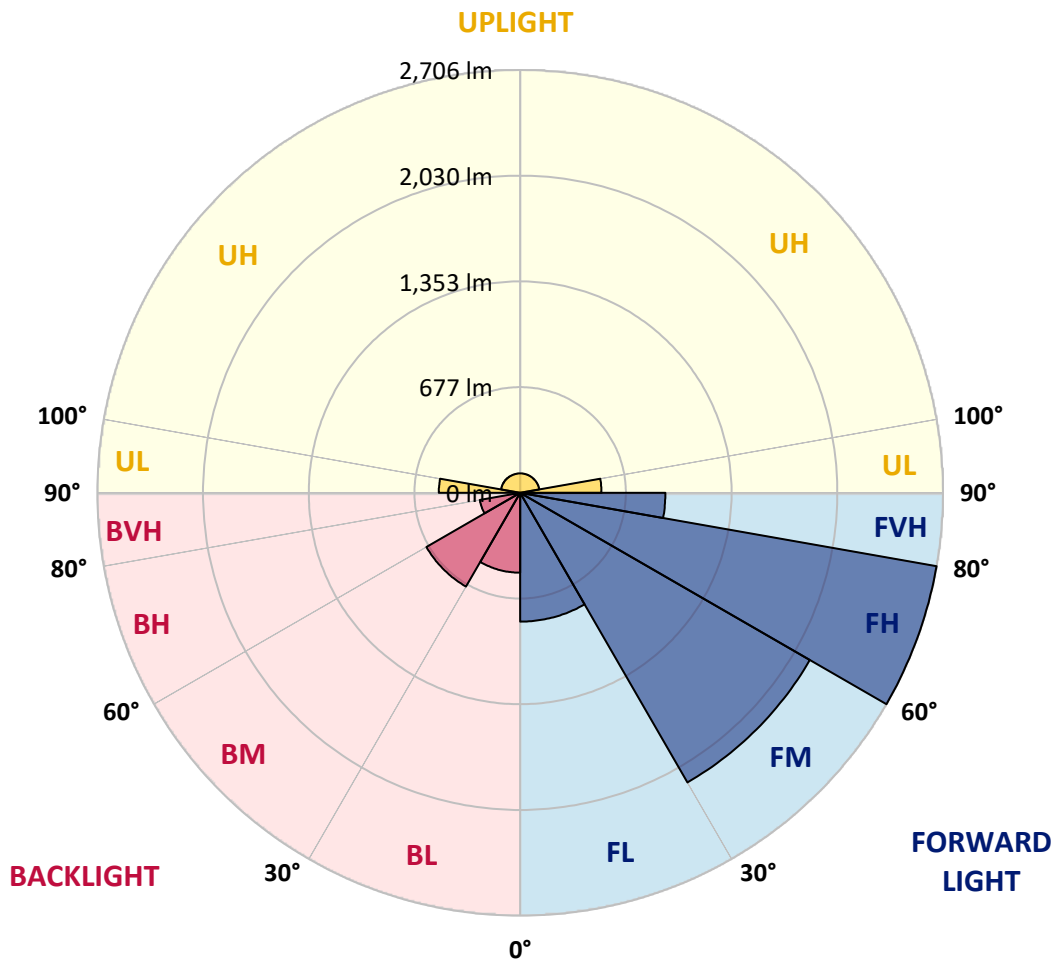


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	824.4	8.4			
FM (30°-60°)	2140.3	21.8			
FH (60°-80°)	2706.2	27.6			G2/5000
FVH (80°-90°)	929.4	9.5			G5
BL (0°-30°)	511.3	5.2	B2/1000		
BM (30°-60°)	692.7	7.1	B1/1000		
BH (60°-80°)	262.4	2.7	B1/500		G1/500
BVH (80°-90°)	45.6	0.5			G1/100
UL (90°-100°)	520.6	5.3		U4/1000	
UH (100°-180°)	124.4	1.3		U3/500	

BUG Rating: B2-U5-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	17°	25°	35°	45°	55°	65°	75°	85°
0°	1851.5	1851.5	1851.5	1851.5	1851.5	1851.5	1851.5	1851.5	1851.5	1851.5	1851.5
2.5°	1901.2	1898.5	1900.5	1901.2	1901.2	1897.2	1891.1	1885.1	1881.7	1871.0	1862.3
5°	1984.4	1977.7	1978.4	1978.4	1971.6	1957.6	1940.8	1924.0	1908.6	1885.1	1867.6
7.5°	2035.4	2034.7	2032.0	2032.7	2024.0	2008.6	1987.8	1961.6	1926.0	1895.8	1862.9
10°	2060.2	2059.6	2058.2	2058.9	2051.5	2034.1	2009.9	1980.4	1940.1	1891.8	1846.2
12.5°	2075.7	2077.0	2072.3	2071.0	2064.3	2048.8	2029.4	1992.5	1950.8	1885.1	1827.4
15°	2093.8	2094.5	2087.7	2087.7	2081.0	2062.2	2034.7	2005.9	1954.2	1883.7	1809.9
17.5°	2109.2	2110.6	2098.5	2098.5	2084.4	2060.9	2034.7	2000.5	1948.2	1870.3	1783.1
20°	2117.9	2117.9	2109.2	2108.5	2087.1	2054.2	2018.0	1977.7	1928.7	1844.1	1744.1
22.5°	2103.2	2103.9	2095.1	2094.5	2080.4	2047.5	1997.8	1954.2	1902.5	1810.6	1696.5
25°	2099.2	2098.5	2087.1	2086.4	2066.3	2038.8	1985.7	1922.0	1866.3	1775.0	1650.2
27.5°	2092.4	2093.8	2081.7	2079.7	2058.9	2018.6	1971.6	1895.8	1826.7	1738.1	1607.9
30°	2079.0	2079.7	2068.3	2065.6	2039.4	1999.2	1938.1	1862.9	1788.4	1695.2	1556.2
32.5°	2071.0	2071.6	2052.2	2048.2	2020.0	1971.0	1901.2	1831.4	1740.1	1648.9	1504.6
35°	2073.7	2071.0	2049.5	2044.8	2003.9	1947.5	1872.3	1794.5	1701.2	1608.6	1453.6
37.5°	2089.8	2087.1	2054.2	2046.8	2000.5	1918.6	1840.8	1756.9	1659.6	1574.4	1403.2
40°	2103.9	2099.8	2069.6	2060.9	2007.2	1910.6	1811.3	1726.7	1638.1	1527.4	1365.0
42.5°	2159.6	2154.2	2098.5	2085.1	2013.3	1900.5	1779.7	1694.5	1603.2	1494.5	1314.7
45°	2252.8	2242.8	2170.3	2151.5	2042.8	1892.5	1767.0	1674.4	1574.4	1434.1	1267.7
47.5°	2352.8	2344.8	2265.6	2242.8	2111.2	1904.5	1757.6	1660.9	1534.1	1410.6	1226.7
50°	2465.6	2456.8	2372.3	2344.8	2194.4	1941.4	1764.3	1638.1	1495.8	1348.2	1163.0
52.5°	2650.8	2631.3	2509.2	2475.0	2301.8	2008.6	1771.7	1632.7	1470.3	1307.3	1129.4
55°	2860.8	2846.1	2720.6	2681.7	2461.5	2102.5	1787.8	1622.7	1442.8	1270.4	1070.4
57.5°	3111.8	3093.0	2932.6	2895.7	2662.2	2224.6	1850.2	1596.5	1428.1	1224.1	1022.1
60°	3374.9	3355.4	3229.9	3191.0	2938.0	2398.5	1960.9	1594.5	1416.0	1189.8	970.4
62.5°	3581.6	3560.8	3413.8	3389.0	3193.0	2673.6	2102.5	1632.7	1385.1	1158.3	921.4
65°	3875.5	3847.3	3701.0	3664.8	3431.3	2939.4	2315.9	1716.0	1348.2	1142.2	871.1
67.5°	4163.4	4151.3	4029.9	4006.4	3818.5	3315.2	2596.4	1867.6	1328.1	1128.8	818.7
70°	4451.3	4442.6	4382.2	4390.9	4294.3	3766.1	3010.5	2129.4	1369.0	1124.1	777.1
72.5°	4565.4	4566.7	4626.5	4660.7	4610.4	4009.7	3244.0	2453.5	1489.8	1040.2	744.9
74°	4608.3	4627.8	4734.5	4761.3	4675.4	3997.0	3211.8	2415.2	1558.3	980.5	724.8
75°	4634.5	4658.7	4739.9	4756.6	4638.5	3921.8	3150.7	2336.0	1563.6	943.5	710.7
77.5°	4668.1	4686.9	4726.5	4713.0	4419.8	3572.9	2849.4	2139.4	1446.2	863.7	673.1
80°	4598.3	4615.7	4594.9	4517.1	4020.5	3127.3	2367.6	1723.3	1244.2	747.6	567.7
82.5°	4267.4	4256.0	4013.1	3848.7	3217.9	2367.6	1572.4	1228.1	1016.7	674.4	392.6
85°	3525.2	3462.1	2927.3	2778.3	2326.7	1703.9	1318.0	1085.1	906.0	652.3	270.4
87.5°	2474.3	2426.0	2168.9	2094.5	1828.0	1444.8	1183.8	995.9	818.7	597.9	175.8
90°	1975.0	1951.5	1775.0	1726.7	1569.7	1296.5	1072.4	897.9	730.1	506.7	142.9
92.5°	1694.5	1676.4	1551.5	1528.1	1405.3	1188.5	995.2	827.4	644.9	410.7	129.5
95°	1475.7	1461.0	1363.0	1359.6	1283.8	1110.0	937.5	781.1	573.1	330.2	130.9
97.5°	1310.0	1299.2	1244.9	1249.6	1193.9	1039.5	870.4	742.9	504.7	277.8	138.2
100°	1197.9	1190.5	1147.6	1161.0	1119.4	979.8	828.8	683.2	456.3	241.6	148.3
102.5°	1126.8	1121.4	1090.5	1108.0	1062.3	940.9	793.9	634.2	412.7	240.9	161.1
105°	1067.0	1064.3	1048.2	1066.4	1039.5	899.9	752.3	586.5	381.8	247.0	171.8
107.5°	1028.1	1027.4	1011.3	1024.7	975.8	855.0	699.9	552.3	373.1	253.0	178.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	17°	25°	35°	45°	55°	65°	75°	85°
110°	953.6	955.0	958.3	969.0	932.1	808.7	660.3	514.7	372.5	255.0	179.2
112.5°	924.1	922.7	922.7	928.8	875.8	760.3	641.6	487.2	355.0	254.3	175.2
115°	882.5	882.5	879.8	879.1	822.7	710.7	608.7	469.1	341.6	247.6	167.8
117.5°	836.8	837.5	826.1	826.8	766.4	680.5	558.3	451.6	327.5	235.6	157.7
120°	776.4	774.4	765.0	763.7	714.7	631.5	512.0	404.0	305.3	226.2	146.3
122.5°	716.0	716.7	706.7	705.3	662.4	567.7	494.6	378.5	292.6	213.4	136.2
125°	659.7	660.3	657.0	653.6	597.9	538.2	445.6	359.0	277.2	201.3	126.2
127.5°	611.4	613.4	588.5	581.2	558.3	517.4	410.0	328.2	264.4	186.6	115.4
130°	559.7	560.4	564.4	566.4	544.2	458.4	399.3	319.4	252.3	173.1	105.4
132.5°	556.3	555.7	540.9	532.2	486.5	436.9	357.7	302.0	235.6	162.4	96.0
135°	508.7	506.0	489.9	485.9	463.7	420.8	365.7	300.6	231.5	152.3	87.2
137.5°	514.7	512.7	514.7	515.4	485.9	422.1	372.5	300.6	221.5	140.3	79.2
140°	516.7	516.1	492.6	487.2	462.4	432.2	357.7	281.2	199.3	123.5	71.1
142.5°	418.1	421.4	416.1	415.4	410.0	342.3	302.7	229.5	167.1	108.0	64.4
145°	347.0	349.0	325.5	318.1	298.6	287.9	242.9	191.9	144.3	96.6	57.7
147.5°	260.4	261.7	266.4	269.1	266.4	230.2	198.6	169.1	124.8	87.2	51.0
150°	242.9	242.9	230.2	231.5	218.8	201.3	181.9	156.4	114.1	78.5	45.0
152.5°	206.0	206.0	210.0	210.7	193.9	181.2	162.4	134.2	103.3	70.5	39.6
155°	179.2	181.2	176.5	176.5	177.8	160.4	142.3	114.8	91.3	62.4	36.2
157.5°	164.4	167.1	158.4	157.7	153.7	140.9	118.1	100.7	77.2	54.4	34.2
160°	144.3	145.6	139.6	138.2	126.8	113.4	98.6	83.9	65.1	47.0	30.9
162.5°	110.7	112.7	107.4	106.7	100.0	93.3	82.5	67.8	53.0	38.9	26.8
165°	90.6	91.3	89.3	89.3	85.9	73.8	64.4	54.4	42.3	30.2	22.1
167.5°	68.5	69.8	67.8	68.5	65.1	58.4	50.3	40.9	30.9	22.1	17.4
170°	53.7	54.4	53.0	53.0	49.7	42.9	34.2	26.8	20.8	14.1	13.4
172.5°	37.6	38.3	34.9	35.6	29.5	24.8	20.1	16.1	12.8	10.7	10.7
175°	4.7	6.0	11.4	11.4	12.8	11.4	10.7	8.7	8.1	8.7	8.7
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°	1851.5	1851.5	1851.5	1851.5	1851.5	1851.5	1851.5	1851.5	1851.5	1851.5	1851.5
2.5°	1857.6	1852.2	1838.1	1824.7	1806.6	1791.1	1777.7	1767.0	1765.6	1758.9	1758.2
5°	1857.6	1847.5	1819.3	1788.4	1759.6	1735.4	1711.9	1691.8	1685.1	1675.0	1673.0
7.5°	1848.8	1832.1	1791.1	1748.2	1701.2	1660.3	1625.4	1593.2	1579.7	1565.6	1561.6
10°	1828.7	1805.2	1748.8	1689.8	1628.1	1569.7	1519.3	1472.4	1450.9	1436.8	1431.4
12.5°	1806.6	1776.4	1707.2	1627.4	1547.5	1471.7	1410.6	1360.3	1324.7	1302.6	1295.9
15°	1783.1	1744.8	1657.6	1563.0	1458.9	1377.7	1293.9	1229.4	1189.2	1164.3	1157.0
17.5°	1750.2	1704.6	1601.9	1486.5	1369.0	1259.0	1167.7	1097.9	1052.9	1026.8	1018.7
20°	1704.6	1649.5	1530.7	1397.9	1259.6	1137.5	1041.5	971.1	926.1	898.6	889.2
22.5°	1655.6	1591.8	1456.3	1307.9	1155.6	1026.1	925.4	857.0	812.7	787.9	789.9
25°	1603.9	1534.8	1384.4	1216.0	1045.6	920.7	823.4	763.0	718.1	697.9	697.9
27.5°	1552.2	1475.7	1310.6	1123.4	946.9	826.1	737.5	682.5	646.3	633.5	633.5
30°	1494.5	1410.6	1227.4	1027.4	860.3	743.6	662.4	621.4	606.0	599.3	599.3
32.5°	1430.8	1346.9	1152.9	936.2	779.1	670.4	602.6	586.5	578.5	576.5	577.1
35°	1376.4	1283.8	1075.1	851.6	707.3	608.0	567.1	562.4	559.0	557.7	557.7
37.5°	1326.1	1226.7	996.6	779.8	644.2	559.7	542.9	544.2	562.4	594.6	597.3
40°	1271.0	1171.0	920.1	711.3	588.5	525.5	524.1	544.2	632.2	662.4	661.7
42.5°	1224.1	1112.0	849.6	653.6	539.6	501.3	505.3	602.0	632.2	625.5	626.8
45°	1163.7	1061.0	787.9	593.2	496.6	479.8	514.7	603.3	597.9	571.8	571.8
47.5°	1122.1	992.5	728.1	541.6	463.0	460.4	559.7	565.7	502.6	462.4	461.7
50°	1059.6	946.9	663.0	493.2	438.2	447.6	530.2	502.6	450.3	424.1	423.5
52.5°	1006.6	875.8	599.9	452.3	417.4	445.6	490.6	452.3	410.0	395.9	395.9
55°	957.0	824.1	542.2	415.4	397.3	457.7	431.5	413.4	379.8	358.4	357.0
57.5°	885.8	736.2	480.5	383.9	376.5	423.5	393.9	374.5	339.6	313.4	311.4
60°	831.5	669.1	420.8	357.0	355.0	380.5	372.5	336.2	295.3	277.2	275.8
62.5°	766.4	618.1	371.1	330.8	329.5	333.5	344.3	298.0	264.4	249.6	248.3
65°	707.3	551.0	332.2	304.7	305.3	298.0	316.1	263.1	236.9	222.1	222.1
67.5°	647.6	487.2	295.9	276.5	290.6	277.8	289.2	234.2	212.7	198.6	197.3
70°	591.9	425.5	260.4	251.7	265.7	255.7	253.7	206.0	186.6	173.1	171.8
72.5°	541.6	366.4	227.5	226.2	236.9	235.6	217.4	178.5	159.7	147.6	145.0
74°	510.0	331.5	208.0	211.4	221.5	222.8	198.0	161.7	142.9	132.9	129.5
75°	490.6	304.7	194.6	201.3	212.1	213.4	184.5	149.7	132.2	122.1	118.8
77.5°	428.8	233.5	165.1	183.9	193.3	189.2	154.3	120.8	106.7	96.6	94.0
80°	336.9	166.4	138.2	166.4	176.5	159.0	121.5	94.6	79.9	71.8	70.5
82.5°	236.2	116.1	112.7	133.5	146.3	128.2	92.6	69.8	57.7	51.7	50.3
85°	145.6	85.2	91.9	106.7	112.7	94.6	68.5	54.4	42.3	35.6	34.2
87.5°	92.6	70.5	75.2	93.3	85.9	67.8	52.3	39.6	29.5	22.8	22.1
90°	75.2	69.1	69.8	89.9	70.5	53.0	38.9	26.8	13.4	6.7	6.0
92.5°	77.2	75.2	76.5	94.6	69.1	50.3	36.2	24.8	11.4	4.7	4.0
95°	96.6	87.2	87.9	93.3	71.1	51.0	36.2	24.8	11.4	4.0	3.4
97.5°	113.4	101.3	94.6	89.9	71.8	51.7	35.6	23.5	10.7	3.4	2.7
100°	124.8	112.7	94.6	87.2	71.1	51.0	34.9	22.1	10.1	2.7	2.7
102.5°	135.6	121.5	97.3	85.9	70.5	49.7	33.6	20.8	9.4	2.7	2.0
105°	144.3	127.5	101.3	84.6	69.8	48.3	32.2	19.5	8.7	2.0	1.3
107.5°	148.3	129.5	103.3	82.5	69.8	47.0	30.9	18.1	7.4	1.3	0.7



REPORT NUMBER: P#

CATALOG NUMBER: AXCL8ARL-C

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	147.6	128.8	102.0	82.5	70.5	46.3	29.5	16.8	6.7	0.7	0.0
112.5°	143.6	125.5	98.6	83.2	67.8	47.0	28.2	16.1	6.0	0.7	0.0
115°	137.6	120.8	94.6	83.2	64.4	46.3	26.8	14.8	4.7	0.0	0.0
117.5°	129.5	114.8	90.6	81.9	61.1	44.3	25.5	13.4	4.0	0.0	0.0
120°	121.5	108.0	86.6	79.9	59.1	41.6	24.8	12.8	3.4	0.0	0.0
122.5°	112.7	101.3	82.5	76.5	57.7	38.3	22.8	11.4	2.7	0.0	0.0
125°	104.0	94.0	77.8	74.5	54.4	35.6	20.8	10.1	2.0	0.0	0.0
127.5°	96.0	86.6	72.5	72.5	49.7	34.2	18.8	8.7	2.0	0.0	0.0
130°	87.2	79.2	67.8	69.1	45.6	32.2	17.4	8.1	1.3	0.0	0.0
132.5°	79.2	71.8	63.1	64.4	41.6	30.9	16.1	6.7	1.3	0.0	0.0
135°	71.8	66.4	58.4	59.1	38.3	29.5	14.1	6.0	1.3	0.0	0.0
137.5°	65.1	61.1	55.0	53.0	34.9	27.5	12.8	4.7	0.7	0.0	0.0
140°	60.4	56.4	53.7	47.6	31.5	25.5	11.4	4.0	0.7	0.0	0.0
142.5°	55.0	52.3	53.0	42.3	28.9	22.8	10.1	3.4	0.7	0.0	0.0
145°	49.0	47.6	50.3	36.2	26.2	20.8	8.7	3.4	0.7	0.0	0.0
147.5°	45.0	44.3	48.3	30.9	23.5	18.8	8.1	2.7	0.7	0.0	0.0
150°	41.6	41.6	43.6	26.2	20.8	16.1	6.7	2.7	0.0	0.0	0.0
152.5°	38.3	39.6	38.3	22.8	18.1	14.1	5.4	2.7	0.0	0.0	0.0
155°	35.6	36.2	32.9	20.1	15.4	11.4	5.4	2.0	0.0	0.0	0.0
157.5°	34.2	34.2	28.9	17.4	12.8	8.7	4.7	2.0	0.0	0.0	0.0
160°	31.5	31.5	24.8	15.4	10.7	7.4	4.0	2.0	0.0	0.0	0.0
162.5°	27.5	26.8	20.8	13.4	9.4	6.0	4.0	2.0	0.0	0.0	0.0
165°	22.1	20.8	16.1	11.4	7.4	5.4	3.4	2.0	0.0	0.0	0.0
167.5°	16.8	16.1	12.1	8.7	6.0	4.7	3.4	2.0	0.0	0.0	0.0
170°	12.8	12.1	9.4	6.7	5.4	4.7	3.4	2.0	0.0	0.0	0.0
172.5°	10.1	10.1	8.1	6.0	5.4	4.7	3.4	1.3	0.0	0.0	0.0
175°	8.7	8.1	6.7	6.0	5.4	3.4	2.7	1.3	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)