

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**

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  
Description: AXCENT RL WALLPACK  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9970 lumens  
Efficiency: N/A  
Efficacy: 138.5 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

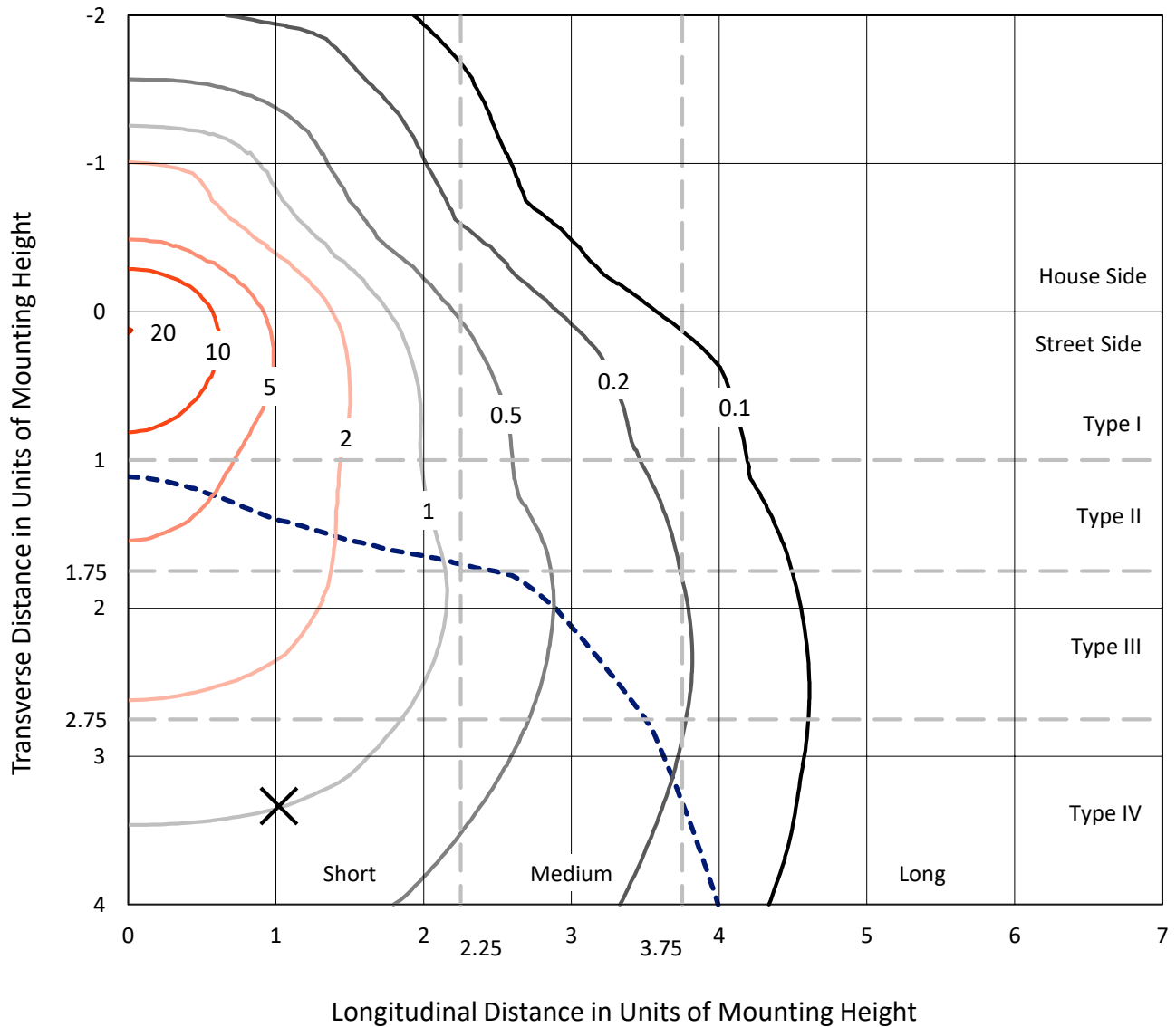
Input Watts (W): 72  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

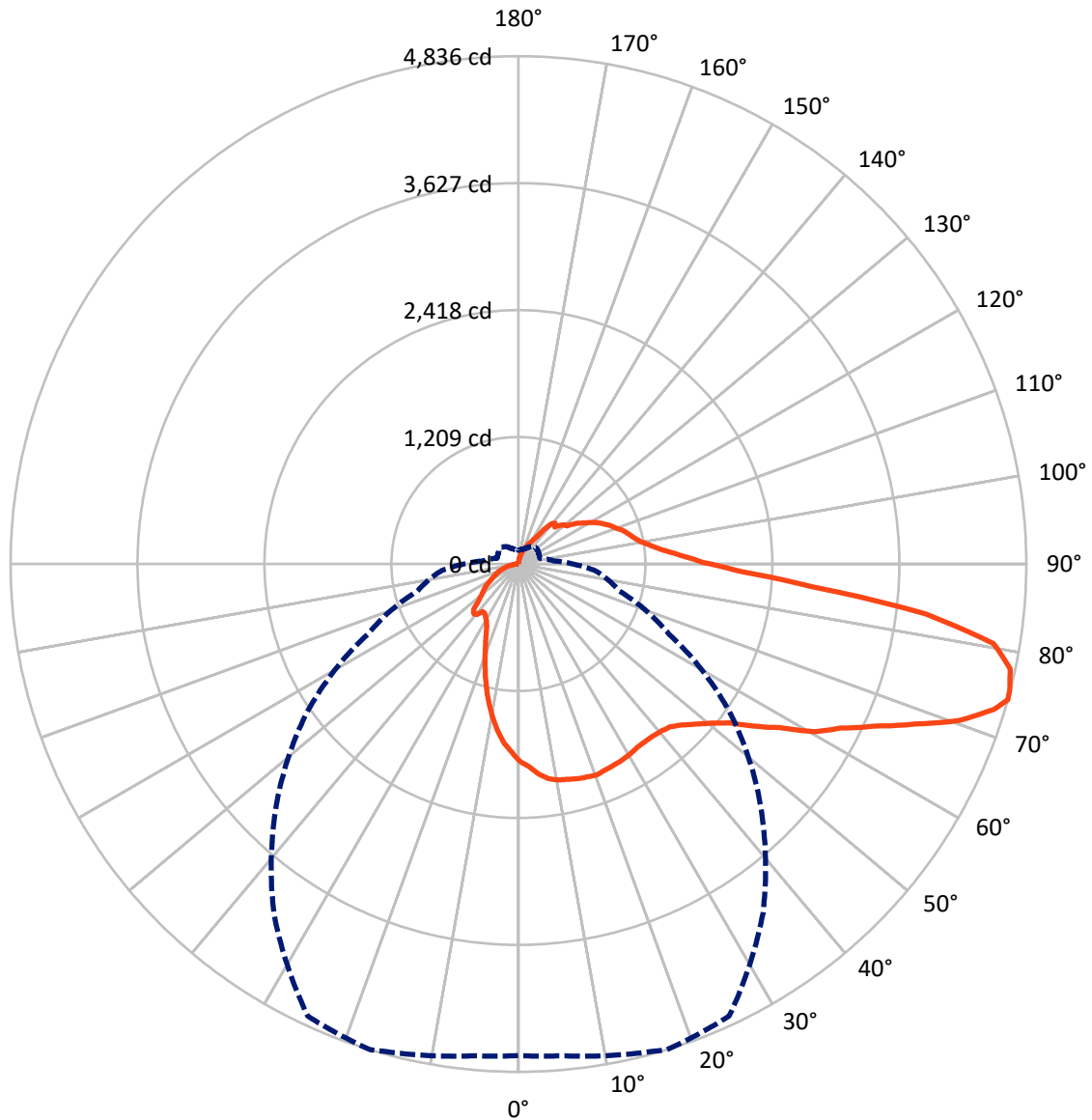
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.1 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
<b>House Side</b>	Lumens	1535.6	126.3	1661.9
	% Fixture	15.4	1.3	16.7
<b>Street Side</b>	Lumens	6703.2	1604.9	8308.0
	% Fixture	67.2	16.1	83.3
<b>Total</b>	Lumens	8238.8	1731.2	9970.0
	% Fixture	82.6	17.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.8	1.8
10°-20°	486.5	4.9
20°-30°	693.3	7.0
30°-40°	828.0	8.3
40°-50°	952.1	9.5
50°-60°	1097.1	11.0
60°-70°	1374.4	13.8
70°-80°	1640.5	16.5
80°-90°	990.2	9.9
90°-100°	528.7	5.3
100°-110°	399.9	4.0
110°-120°	312.0	3.1
120°-130°	215.9	2.2
130°-140°	147.6	1.5
140°-150°	81.6	0.8
150°-160°	33.9	0.3
160°-170°	10.5	0.1
170°-180°	1.1	0.0
0°-90°	8238.8	82.6
0°-180°	9970.0	100.0

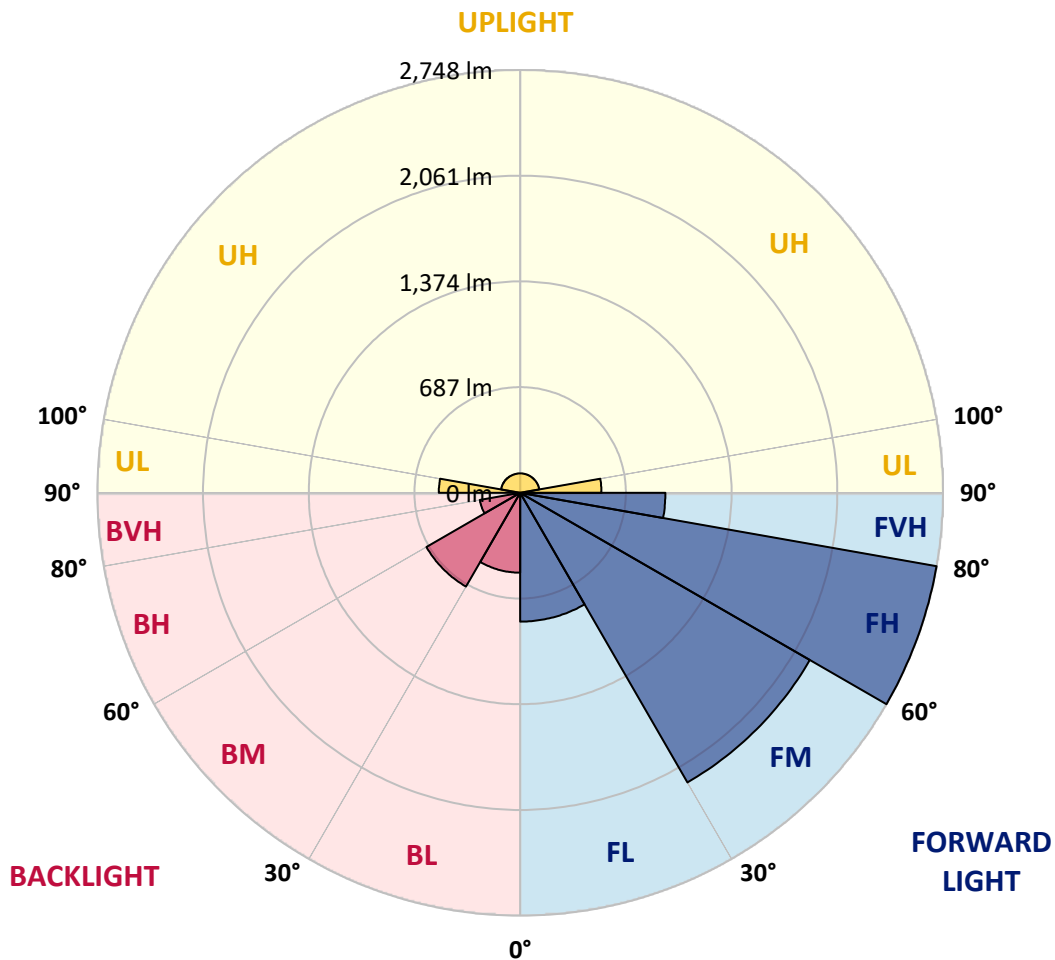


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	837.3	8.4			
FM (30°-60°)	2173.7	21.8			
FH (60°-80°)	2748.4	27.6			G2/5000
FVH (80°-90°)	943.9	9.5			G5
BL (0°-30°)	519.3	5.2	B2/1000		
BM (30°-60°)	703.5	7.1	B1/1000		
BH (60°-80°)	266.5	2.7	B1/500		G1/500
BVH (80°-90°)	46.3	0.5			G1/100
UL (90°-100°)	528.7	5.3		U4/1000	
UH (100°-180°)	126.3	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°	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4
2.5°	1930.8	1928.1	1930.1	1930.8	1930.8	1926.7	1920.6	1914.4	1911.0	1900.1	1891.3
5°	2015.3	2008.5	2009.2	2009.2	2002.4	1988.0	1971.0	1954.0	1938.3	1914.4	1896.7
7.5°	2067.1	2066.4	2063.7	2064.4	2055.5	2039.8	2018.7	1992.1	1956.0	1925.3	1891.9
10°	2092.3	2091.6	2090.3	2091.0	2083.5	2065.7	2041.2	2011.2	1970.3	1921.3	1874.9
12.5°	2108.0	2109.4	2104.6	2103.2	2096.4	2080.7	2061.0	2023.5	1981.2	1914.4	1855.8
15°	2126.4	2127.1	2120.3	2120.3	2113.4	2094.4	2066.4	2037.1	1984.6	1913.1	1838.1
17.5°	2142.1	2143.4	2131.2	2131.2	2116.9	2093.0	2066.4	2031.7	1978.5	1899.4	1810.8
20°	2150.9	2150.9	2142.1	2141.4	2119.6	2086.2	2049.4	2008.5	1958.7	1872.9	1771.3
22.5°	2135.9	2136.6	2127.8	2127.1	2112.8	2079.4	2028.9	1984.6	1932.2	1838.8	1722.9
25°	2131.8	2131.2	2119.6	2118.9	2098.4	2070.5	2016.7	1951.9	1895.4	1802.7	1675.9
27.5°	2125.0	2126.4	2114.1	2112.1	2091.0	2050.1	2002.4	1925.3	1855.1	1765.2	1633.0
30°	2111.4	2112.1	2100.5	2097.8	2071.2	2030.3	1968.3	1891.9	1816.3	1721.6	1580.5
32.5°	2103.2	2103.9	2084.1	2080.0	2051.4	2001.7	1930.8	1859.9	1767.2	1674.5	1528.0
35°	2105.9	2103.2	2081.4	2076.6	2035.1	1977.8	1901.5	1822.4	1727.7	1633.6	1476.2
37.5°	2122.3	2119.6	2086.2	2078.7	2031.7	1948.5	1869.5	1784.3	1685.4	1598.9	1425.1
40°	2136.6	2132.5	2101.9	2093.0	2038.5	1940.3	1839.5	1753.6	1663.6	1551.2	1386.2
42.5°	2193.2	2187.7	2131.2	2117.5	2044.6	1930.1	1807.4	1720.9	1628.2	1517.8	1335.1
45°	2287.9	2277.7	2204.1	2185.0	2074.6	1921.9	1794.5	1700.4	1598.9	1456.4	1287.4
47.5°	2389.5	2381.3	2300.9	2277.7	2144.1	1934.2	1784.9	1686.8	1558.0	1432.6	1245.8
50°	2504.0	2495.1	2409.2	2381.3	2228.6	1971.7	1791.8	1663.6	1519.1	1369.2	1181.1
52.5°	2692.1	2672.3	2548.3	2513.5	2337.7	2039.8	1799.3	1658.2	1493.2	1327.6	1147.0
55°	2905.4	2890.4	2762.9	2723.4	2499.9	2135.3	1815.6	1648.0	1465.3	1290.1	1087.1
57.5°	3160.3	3141.2	2978.3	2940.8	2703.7	2259.3	1879.0	1621.4	1450.3	1243.1	1038.0
60°	3427.4	3407.7	3280.2	3240.7	2983.8	2435.8	1991.4	1619.3	1438.0	1208.4	985.5
62.5°	3637.4	3616.2	3467.0	3441.8	3242.7	2715.2	2135.3	1658.2	1406.7	1176.3	935.7
65°	3935.9	3907.2	3758.7	3721.9	3484.7	2985.1	2352.0	1742.7	1369.2	1160.0	884.6
67.5°	4228.2	4216.0	4092.6	4068.8	3877.9	3366.8	2636.9	1896.7	1348.8	1146.3	831.5
70°	4520.6	4511.8	4450.4	4459.3	4361.1	3824.8	3057.4	2162.5	1390.3	1141.6	789.2
72.5°	4636.5	4637.9	4698.5	4733.3	4682.2	4072.2	3294.5	2491.7	1513.0	1056.4	756.5
74°	4680.1	4699.9	4808.2	4835.5	4748.3	4059.2	3261.8	2452.8	1582.5	995.7	736.1
75°	4706.7	4731.2	4813.7	4830.7	4710.8	3982.9	3199.8	2372.4	1588.0	958.2	721.7
77.5°	4740.8	4759.8	4800.1	4786.4	4488.6	3628.5	2893.8	2172.7	1468.7	877.1	683.6
80°	4669.9	4687.6	4666.5	4587.4	4083.1	3176.0	2404.5	1750.2	1263.6	759.2	576.6
82.5°	4333.9	4322.3	4075.6	3908.6	3268.0	2404.5	1596.8	1247.2	1032.5	684.9	398.7
85°	3580.1	3516.0	2972.9	2821.6	2362.9	1730.4	1338.5	1102.0	920.1	662.5	274.7
87.5°	2512.8	2463.8	2202.7	2127.1	1856.5	1467.3	1202.2	1011.4	831.5	607.2	178.6
90°	2005.8	1981.9	1802.7	1753.6	1594.1	1316.7	1089.1	911.9	741.5	514.6	145.2
92.5°	1720.9	1702.5	1575.7	1551.9	1427.1	1207.0	1010.7	840.3	655.0	417.1	131.5
95°	1498.7	1483.7	1384.2	1380.8	1303.8	1127.3	952.1	793.3	582.0	335.3	132.9
97.5°	1330.4	1319.5	1264.2	1269.0	1212.5	1055.7	884.0	754.5	512.5	282.2	140.4
100°	1216.5	1209.0	1165.4	1179.1	1136.8	995.0	841.7	693.8	463.4	245.4	150.6
102.5°	1144.3	1138.8	1107.5	1125.2	1078.9	955.5	806.3	644.1	419.1	244.7	163.6
105°	1083.6	1080.9	1064.6	1083.0	1055.7	913.9	764.0	595.7	387.8	250.8	174.5
107.5°	1044.1	1043.4	1027.1	1040.7	991.0	868.3	710.8	560.9	378.9	256.9	181.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	17°	25°	35°	45°	55°	65°	75°	85°
110°	968.5	969.8	973.2	984.1	946.7	821.3	670.6	522.7	378.3	259.0	182.0
112.5°	938.5	937.1	937.1	943.2	889.4	772.2	651.5	494.8	360.5	258.3	177.9
115°	896.2	896.2	893.5	892.8	835.6	721.7	618.2	476.4	346.9	251.5	170.4
117.5°	849.9	850.6	839.0	839.7	778.3	691.1	567.0	458.7	332.6	239.2	160.2
120°	788.5	786.5	777.0	775.6	725.8	641.3	520.0	410.3	310.1	229.7	148.6
122.5°	727.2	727.9	717.7	716.3	672.7	576.6	502.3	384.4	297.1	216.7	138.4
125°	669.9	670.6	667.2	663.8	607.2	546.6	452.5	364.6	281.5	204.5	128.1
127.5°	620.9	622.9	597.7	590.2	567.0	525.5	416.4	333.3	268.5	189.5	117.2
130°	568.4	569.1	573.2	575.2	552.7	465.5	405.5	324.4	256.3	175.8	107.0
132.5°	565.0	564.3	549.3	540.5	494.1	443.7	363.3	306.7	239.2	164.9	97.5
135°	516.6	513.9	497.5	493.4	470.9	427.3	371.4	305.3	235.1	154.7	88.6
137.5°	522.7	520.7	522.7	523.4	493.4	428.7	378.3	305.3	224.9	142.4	80.4
140°	524.8	524.1	500.2	494.8	469.6	438.9	363.3	285.6	202.4	125.4	72.2
142.5°	424.6	428.0	422.6	421.9	416.4	347.6	307.4	233.1	169.7	109.7	65.4
145°	352.4	354.4	330.5	323.0	303.3	292.4	246.7	194.9	146.5	98.1	58.6
147.5°	264.4	265.8	270.6	273.3	270.6	233.8	201.7	171.7	126.8	88.6	51.8
150°	246.7	246.7	233.8	235.1	222.2	204.5	184.7	158.8	115.9	79.7	45.7
152.5°	209.2	209.2	213.3	214.0	197.0	184.0	164.9	136.3	105.0	71.6	40.2
155°	182.0	184.0	179.2	179.2	180.6	162.9	144.5	116.5	92.7	63.4	36.8
157.5°	167.0	169.7	160.8	160.2	156.1	143.1	120.0	102.2	78.4	55.2	34.8
160°	146.5	147.9	141.8	140.4	128.8	115.2	100.2	85.2	66.1	47.7	31.4
162.5°	112.5	114.5	109.0	108.4	101.5	94.7	83.8	68.8	53.8	39.5	27.3
165°	92.0	92.7	90.6	90.6	87.2	75.0	65.4	55.2	42.9	30.7	22.5
167.5°	69.5	70.9	68.8	69.5	66.1	59.3	51.1	41.6	31.4	22.5	17.7
170°	54.5	55.2	53.8	53.8	50.4	43.6	34.8	27.3	21.1	14.3	13.6
172.5°	38.2	38.8	35.4	36.1	30.0	25.2	20.4	16.4	12.9	10.9	10.9
175°	4.8	6.1	11.6	11.6	12.9	11.6	10.9	8.9	8.2	8.9	8.9
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°	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4
2.5°	1886.5	1881.0	1866.7	1853.1	1834.7	1819.0	1805.4	1794.5	1793.1	1786.3	1785.6
5°	1886.5	1876.3	1847.6	1816.3	1787.0	1762.5	1738.6	1718.2	1711.3	1701.1	1699.1
7.5°	1877.6	1860.6	1819.0	1775.4	1727.7	1686.1	1650.7	1618.0	1604.3	1590.0	1585.9
10°	1857.2	1833.3	1776.1	1716.1	1653.4	1594.1	1543.0	1495.3	1473.5	1459.2	1453.7
12.5°	1834.7	1804.0	1733.8	1652.7	1571.6	1494.6	1432.6	1381.5	1345.4	1322.9	1316.0
15°	1810.8	1772.0	1683.4	1587.3	1481.7	1399.2	1314.0	1248.6	1207.7	1182.5	1175.0
17.5°	1777.4	1731.1	1626.8	1509.6	1390.3	1278.6	1185.9	1115.0	1069.3	1042.8	1034.6
20°	1731.1	1675.2	1554.6	1419.6	1279.2	1155.2	1057.7	986.2	940.5	912.6	903.0
22.5°	1681.3	1616.6	1478.9	1328.3	1173.6	1042.1	939.8	870.3	825.3	800.1	802.2
25°	1628.9	1558.7	1406.0	1234.9	1061.8	935.1	836.2	774.9	729.2	708.8	708.8
27.5°	1576.4	1498.7	1331.0	1140.9	961.6	839.0	749.0	693.1	656.3	643.4	643.4
30°	1517.8	1432.6	1246.5	1043.4	873.7	755.1	672.7	631.1	615.4	608.6	608.6
32.5°	1453.0	1367.8	1170.9	950.7	791.3	680.9	612.0	595.7	587.5	585.4	586.1
35°	1397.8	1303.8	1091.8	864.9	718.3	617.5	575.9	571.1	567.7	566.4	566.4
37.5°	1346.7	1245.8	1012.1	791.9	654.3	568.4	551.4	552.7	571.1	603.8	606.6
40°	1290.8	1189.3	934.4	722.4	597.7	533.6	532.3	552.7	642.0	672.7	672.0
42.5°	1243.1	1129.3	862.8	663.8	548.0	509.1	513.2	611.3	642.0	635.2	636.6
45°	1181.8	1077.5	800.1	602.5	504.3	487.3	522.7	612.7	607.2	580.7	580.7
47.5°	1139.5	1008.0	739.5	550.0	470.3	467.5	568.4	574.5	510.5	469.6	468.9
50°	1076.1	961.6	673.4	500.9	445.0	454.6	538.4	510.5	457.3	430.7	430.0
52.5°	1022.3	889.4	609.3	459.4	423.9	452.5	498.2	459.4	416.4	402.1	402.1
55°	971.9	836.9	550.7	421.9	403.5	464.8	438.2	419.8	385.7	363.9	362.6
57.5°	899.6	747.6	488.0	389.8	382.3	430.0	400.1	380.3	344.9	318.3	316.2
60°	844.4	679.5	427.3	362.6	360.5	386.4	378.3	341.4	299.9	281.5	280.1
62.5°	778.3	627.7	376.9	336.0	334.6	338.7	349.6	302.6	268.5	253.5	252.2
65°	718.3	559.5	337.4	309.4	310.1	302.6	321.0	267.2	240.6	225.6	225.6
67.5°	657.7	494.8	300.6	280.8	295.1	282.2	293.7	237.9	216.0	201.7	200.4
70°	601.1	432.1	264.4	255.6	269.9	259.7	257.6	209.2	189.5	175.8	174.5
72.5°	550.0	372.1	231.0	229.7	240.6	239.2	220.8	181.3	162.2	149.9	147.2
74°	518.0	336.7	211.3	214.7	224.9	226.3	201.1	164.3	145.2	134.9	131.5
75°	498.2	309.4	197.6	204.5	215.4	216.7	187.4	152.0	134.3	124.0	120.6
77.5°	435.5	237.2	167.7	186.7	196.3	192.2	156.8	122.7	108.4	98.1	95.4
80°	342.1	169.0	140.4	169.0	179.2	161.5	123.4	96.1	81.1	72.9	71.6
82.5°	239.9	117.9	114.5	135.6	148.6	130.2	94.1	70.9	58.6	52.5	51.1
85°	147.9	86.6	93.4	108.4	114.5	96.1	69.5	55.2	42.9	36.1	34.8
87.5°	94.1	71.6	76.3	94.7	87.2	68.8	53.2	40.2	30.0	23.2	22.5
90°	76.3	70.2	70.9	91.3	71.6	53.8	39.5	27.3	13.6	6.8	6.1
92.5°	78.4	76.3	77.7	96.1	70.2	51.1	36.8	25.2	11.6	4.8	4.1
95°	98.1	88.6	89.3	94.7	72.2	51.8	36.8	25.2	11.6	4.1	3.4
97.5°	115.2	102.9	96.1	91.3	72.9	52.5	36.1	23.9	10.9	3.4	2.7
100°	126.8	114.5	96.1	88.6	72.2	51.8	35.4	22.5	10.2	2.7	2.7
102.5°	137.7	123.4	98.8	87.2	71.6	50.4	34.1	21.1	9.5	2.7	2.0
105°	146.5	129.5	102.9	85.9	70.9	49.1	32.7	19.8	8.9	2.0	1.4
107.5°	150.6	131.5	105.0	83.8	70.9	47.7	31.4	18.4	7.5	1.4	0.7



REPORT NUMBER: P#  
 CATALOG NUMBER: AXCL8ARL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	149.9	130.9	103.6	83.8	71.6	47.0	30.0	17.0	6.8	0.7	0.0
112.5°	145.8	127.4	100.2	84.5	68.8	47.7	28.6	16.4	6.1	0.7	0.0
115°	139.7	122.7	96.1	84.5	65.4	47.0	27.3	15.0	4.8	0.0	0.0
117.5°	131.5	116.5	92.0	83.1	62.0	45.0	25.9	13.6	4.1	0.0	0.0
120°	123.4	109.7	87.9	81.1	60.0	42.3	25.2	12.9	3.4	0.0	0.0
122.5°	114.5	102.9	83.8	77.7	58.6	38.8	23.2	11.6	2.7	0.0	0.0
125°	105.6	95.4	79.1	75.7	55.2	36.1	21.1	10.2	2.0	0.0	0.0
127.5°	97.5	87.9	73.6	73.6	50.4	34.8	19.1	8.9	2.0	0.0	0.0
130°	88.6	80.4	68.8	70.2	46.3	32.7	17.7	8.2	1.4	0.0	0.0
132.5°	80.4	72.9	64.1	65.4	42.3	31.4	16.4	6.8	1.4	0.0	0.0
135°	72.9	67.5	59.3	60.0	38.8	30.0	14.3	6.1	1.4	0.0	0.0
137.5°	66.1	62.0	55.9	53.8	35.4	27.9	12.9	4.8	0.7	0.0	0.0
140°	61.3	57.2	54.5	48.4	32.0	25.9	11.6	4.1	0.7	0.0	0.0
142.5°	55.9	53.2	53.8	42.9	29.3	23.2	10.2	3.4	0.7	0.0	0.0
145°	49.8	48.4	51.1	36.8	26.6	21.1	8.9	3.4	0.7	0.0	0.0
147.5°	45.7	45.0	49.1	31.4	23.9	19.1	8.2	2.7	0.7	0.0	0.0
150°	42.3	42.3	44.3	26.6	21.1	16.4	6.8	2.7	0.0	0.0	0.0
152.5°	38.8	40.2	38.8	23.2	18.4	14.3	5.5	2.7	0.0	0.0	0.0
155°	36.1	36.8	33.4	20.4	15.7	11.6	5.5	2.0	0.0	0.0	0.0
157.5°	34.8	34.8	29.3	17.7	12.9	8.9	4.8	2.0	0.0	0.0	0.0
160°	32.0	32.0	25.2	15.7	10.9	7.5	4.1	2.0	0.0	0.0	0.0
162.5°	27.9	27.3	21.1	13.6	9.5	6.1	4.1	2.0	0.0	0.0	0.0
165°	22.5	21.1	16.4	11.6	7.5	5.5	3.4	2.0	0.0	0.0	0.0
167.5°	17.0	16.4	12.3	8.9	6.1	4.8	3.4	2.0	0.0	0.0	0.0
170°	12.9	12.3	9.5	6.8	5.5	4.8	3.4	2.0	0.0	0.0	0.0
172.5°	10.2	10.2	8.2	6.1	5.5	4.8	3.4	1.4	0.0	0.0	0.0
175°	8.9	8.2	6.8	6.1	5.5	3.4	2.7	1.4	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)