

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: P290570

Luminaire Tested: **AXCS5ARL-GRF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-095-9)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: AXCS5ARL-GRF
Description: 5ARL AXCENT SMALL LED WALLPACK WITH 4000K CCT AND 70 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6447.1 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 0.5' x H: 0.17')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U4 - G3

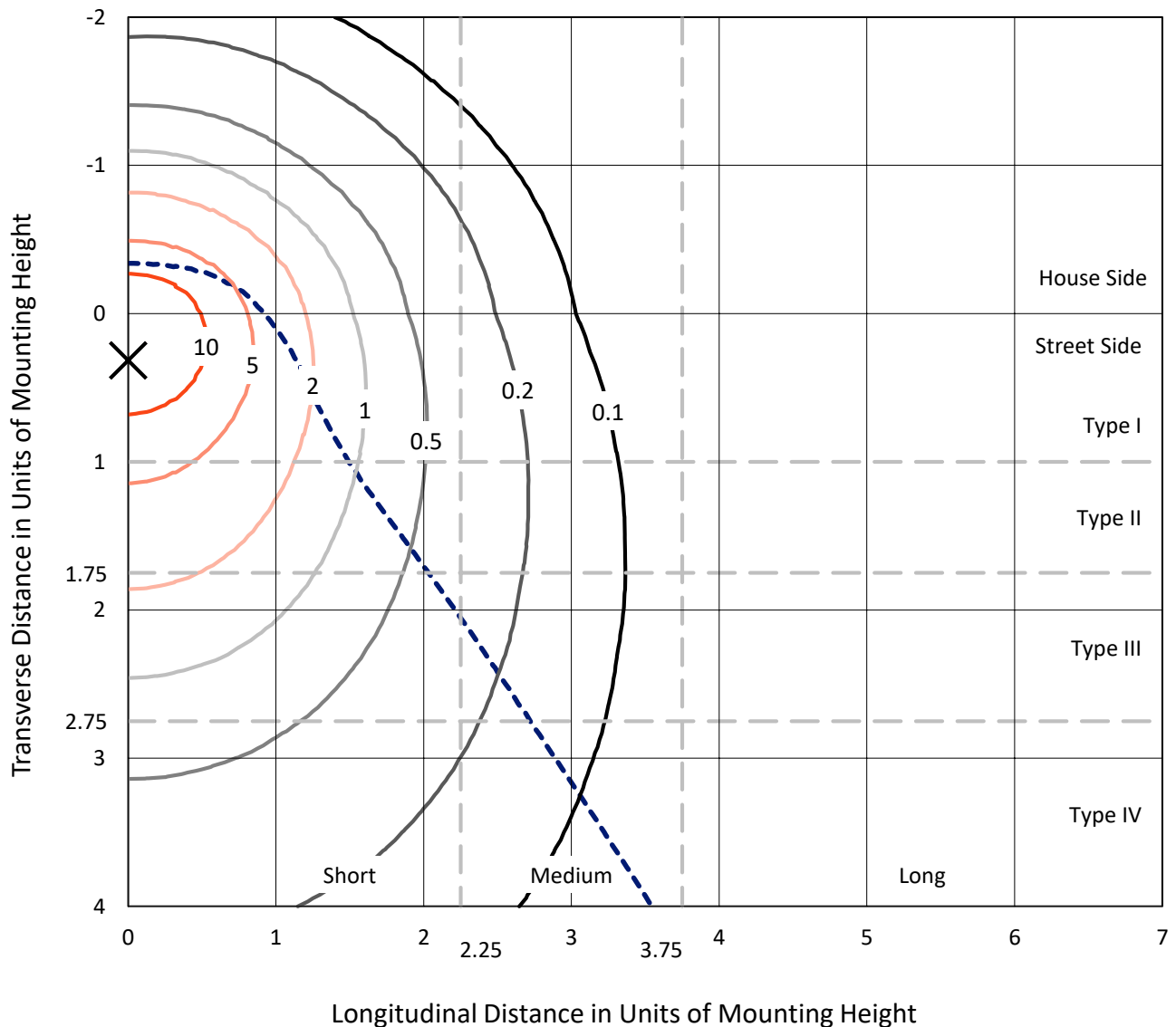
Input Watts (W): 51.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

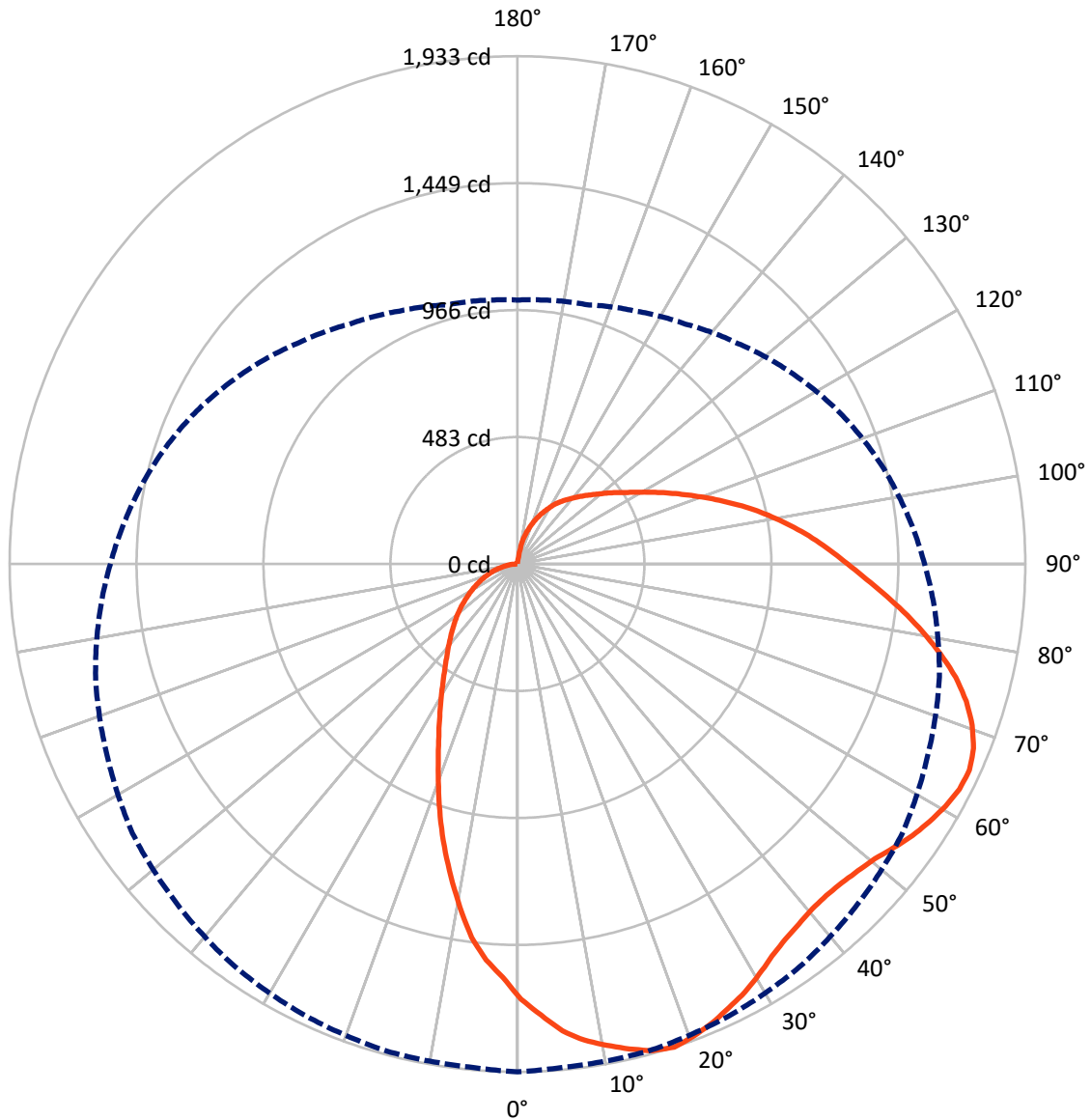
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 17.5-Deg Vertical

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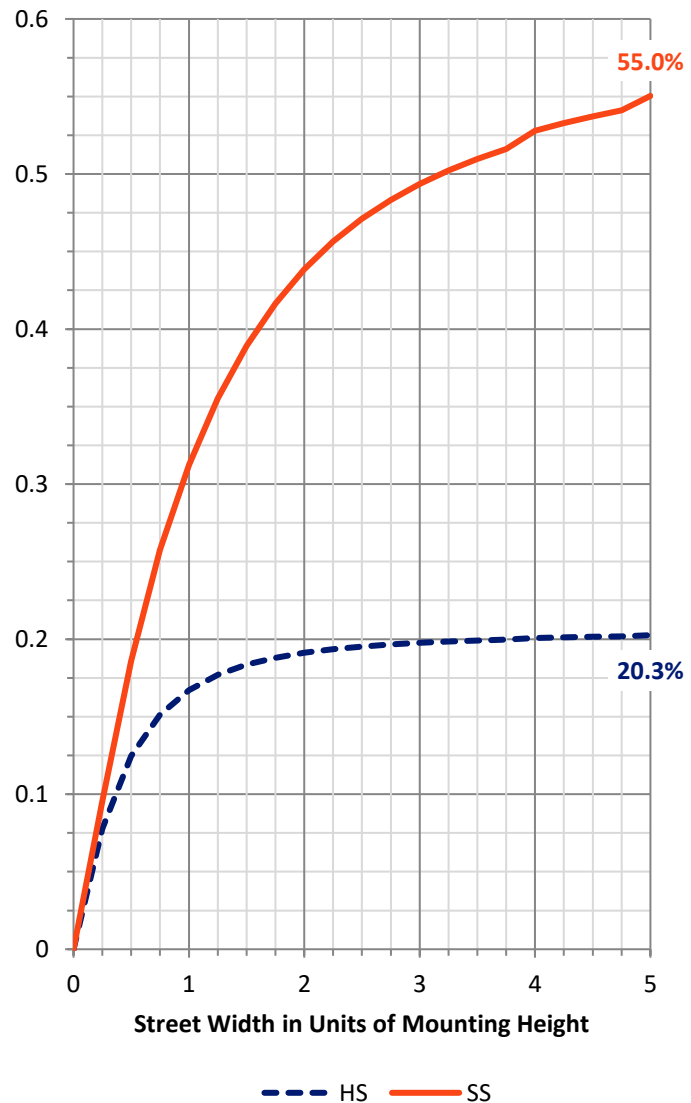
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1330.2	98.8	1429.1
	% Fixture	20.6	1.5	22.2
Street Side	Lumens	3858.7	1159.3	5018.1
	% Fixture	59.9	18.0	77.8
Total	Lumens	5189.0	1258.2	6447.1
	% Fixture	80.5	19.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	2.4
10°-20°	435.5	6.8
20°-30°	622.7	9.7
30°-40°	712.3	11.0
40°-50°	739.5	11.5
50°-60°	736.2	11.4
60°-70°	702.7	10.9
70°-80°	609.5	9.5
80°-90°	474.3	7.4
90°-100°	376.2	5.8
100°-110°	296.3	4.6
110°-120°	217.2	3.4
120°-130°	154.0	2.4
130°-140°	105.1	1.6
140°-150°	65.5	1.0
150°-160°	33.1	0.5
160°-170°	10.4	0.2
170°-180°	0.4	0.0
0°-90°	5189.0	80.5
0°-180°	6447.1	100.0



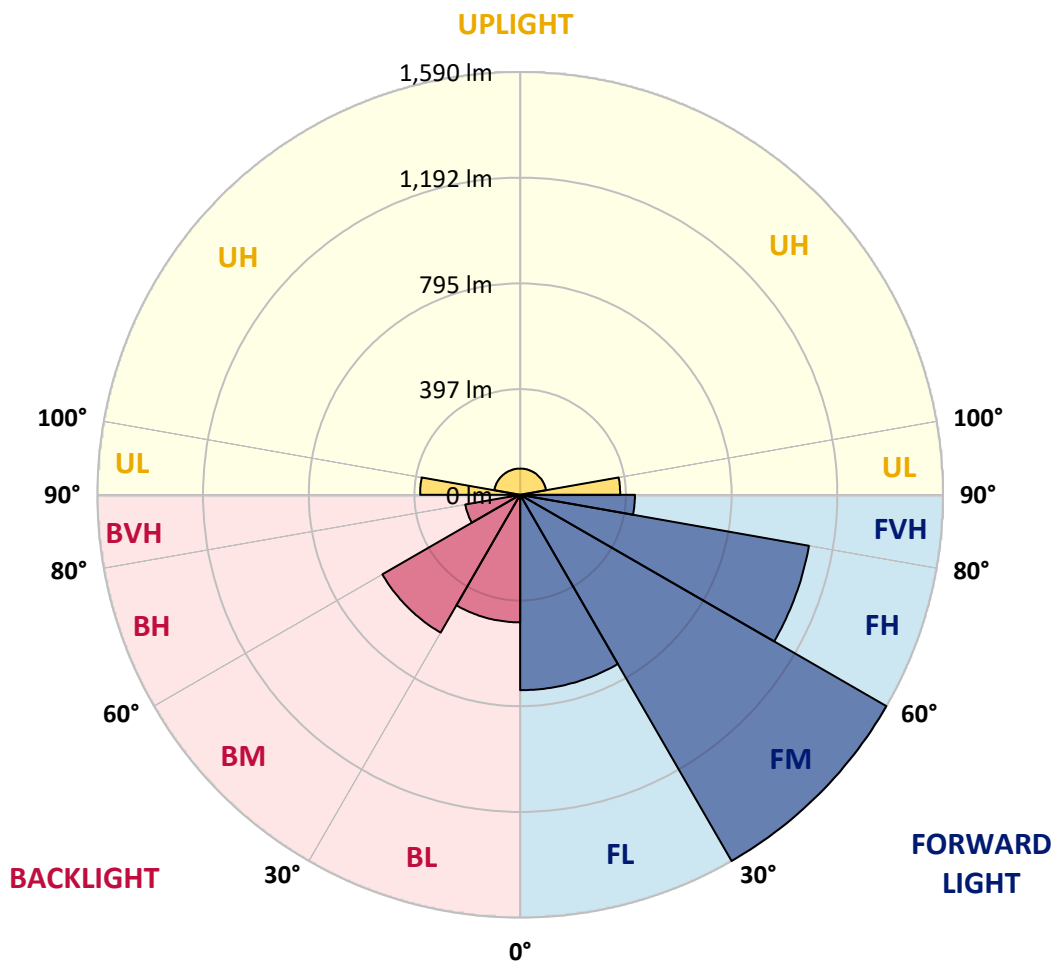
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	734.7	11.4			
FM (30°-60°)	1590.0	24.7			
FH (60°-80°)	1102.6	17.1			G1/1800
FVH (80°-90°)	431.4	6.7			G3/500
BL (0°-30°)	479.7	7.4	B1/500		
BM (30°-60°)	598.0	9.3	B1/1000		
BH (60°-80°)	209.6	3.3	B1/500		G1/500
BVH (80°-90°)	42.9	0.7			G1/100
UL (90°-100°)	376.2	5.8		U3/500	
UH (100°-180°)	98.8	1.5		U3/500	

BUG Rating: B1-U4-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0
2.5°	1718.8	1711.5	1712.5	1708.3	1705.2	1697.9	1693.7	1683.2	1673.8	1665.4	1657.0
5°	1784.8	1773.3	1772.2	1765.9	1755.5	1742.9	1730.3	1711.5	1689.5	1670.6	1654.9
7.5°	1829.8	1820.4	1818.3	1811.0	1793.2	1776.4	1755.5	1728.2	1698.9	1666.4	1645.5
10°	1862.3	1852.9	1850.8	1837.2	1816.2	1791.1	1765.9	1730.3	1693.7	1649.7	1623.5
12.5°	1893.7	1886.4	1880.1	1865.4	1840.3	1809.9	1777.5	1732.4	1688.4	1631.9	1603.6
15°	1922.0	1915.7	1910.5	1891.6	1866.5	1827.7	1790.0	1734.5	1682.1	1616.2	1581.6
17.5°	1932.5	1923.0	1918.9	1899.0	1871.7	1830.9	1787.9	1723.0	1662.2	1587.9	1549.1
20°	1917.8	1910.5	1906.3	1888.5	1861.2	1819.4	1768.0	1698.9	1629.8	1551.2	1504.1
22.5°	1896.9	1891.6	1883.2	1870.7	1842.4	1800.5	1742.9	1670.6	1593.1	1506.2	1458.0
25°	1869.6	1865.4	1860.2	1846.6	1816.2	1774.3	1714.6	1637.1	1554.4	1459.0	1408.8
27.5°	1844.5	1837.2	1830.9	1816.2	1786.9	1740.8	1683.2	1601.5	1509.3	1405.6	1353.3
30°	1812.0	1805.7	1796.3	1779.6	1746.0	1699.9	1637.1	1555.4	1453.8	1348.0	1289.4
32.5°	1778.5	1775.4	1760.7	1741.8	1701.0	1652.8	1587.9	1498.8	1395.2	1284.1	1225.5
35°	1754.4	1750.2	1735.6	1705.2	1659.1	1603.6	1534.5	1444.4	1335.4	1219.2	1158.4
37.5°	1738.7	1733.5	1714.6	1674.8	1619.3	1554.4	1480.0	1383.6	1273.7	1153.2	1091.4
40°	1726.1	1723.0	1697.9	1647.6	1580.5	1504.1	1421.3	1320.8	1208.7	1085.1	1024.4
42.5°	1724.0	1718.8	1689.5	1626.6	1546.0	1455.9	1359.5	1256.9	1143.8	1018.1	956.3
45°	1730.3	1724.0	1687.4	1610.9	1516.7	1409.8	1300.9	1194.0	1073.6	950.0	889.3
47.5°	1743.9	1739.8	1694.7	1602.5	1489.4	1364.8	1243.3	1128.1	1008.7	881.9	821.2
50°	1762.8	1759.7	1706.2	1599.4	1463.2	1322.9	1189.9	1065.2	944.8	818.0	758.3
52.5°	1793.2	1782.7	1724.0	1602.5	1448.6	1284.1	1134.3	1001.3	880.9	755.2	698.6
55°	1824.6	1812.0	1743.9	1607.8	1431.8	1249.6	1083.0	942.7	819.1	694.4	638.9
57.5°	1849.7	1837.2	1763.8	1615.1	1418.2	1219.2	1036.9	888.2	761.5	637.9	584.5
60°	1871.7	1861.2	1778.5	1617.2	1403.5	1183.6	990.9	833.7	706.0	584.5	533.1
62.5°	1887.4	1873.8	1791.1	1612.0	1386.8	1151.1	947.9	782.4	652.5	534.2	482.9
65°	1890.6	1877.0	1785.8	1602.5	1366.9	1116.5	906.0	735.3	603.3	486.0	436.8
67.5°	1871.7	1861.2	1770.1	1581.6	1340.7	1084.1	863.1	690.2	556.2	442.0	393.8
70°	1836.1	1830.9	1735.6	1550.2	1304.0	1045.3	821.2	646.3	510.1	395.9	351.9
72.5°	1785.8	1781.6	1687.4	1505.1	1265.3	1004.5	779.3	606.5	467.1	356.1	312.1
75°	1723.0	1716.7	1625.6	1453.8	1213.9	958.4	736.3	564.6	425.2	315.3	274.4
77.5°	1645.5	1642.3	1557.5	1389.9	1159.5	910.2	693.4	523.7	386.5	277.6	235.7
80°	1563.8	1561.7	1480.0	1322.9	1099.8	862.0	651.5	486.0	348.8	237.8	203.2
82.5°	1478.9	1477.9	1400.4	1249.6	1039.0	812.8	610.6	450.4	316.3	207.4	172.8
85°	1394.1	1392.0	1319.7	1177.3	979.3	767.8	575.0	421.1	287.0	179.1	147.7
87.5°	1313.5	1311.4	1242.2	1109.2	923.8	722.7	542.6	393.8	261.9	156.1	127.8
90°	1242.2	1239.1	1175.2	1048.5	875.6	689.2	519.5	376.0	247.2	144.5	118.4
92.5°	1178.3	1176.2	1115.5	999.2	836.9	665.1	504.9	368.7	242.0	141.4	116.3
95°	1114.4	1110.3	1054.7	947.9	798.1	641.0	490.2	359.3	236.7	139.3	114.2
97.5°	1049.5	1046.4	995.0	896.6	759.4	614.8	474.5	348.8	230.4	137.2	111.0
100°	984.6	982.5	937.4	847.4	720.6	586.6	455.6	337.3	223.1	134.1	107.9
102.5°	921.7	920.7	877.7	796.0	681.9	557.2	435.7	324.7	215.8	129.9	104.7
105°	855.7	856.8	817.0	743.7	640.0	525.8	415.8	311.1	209.5	126.7	101.6
107.5°	793.9	792.9	758.3	692.3	600.2	499.6	397.0	298.5	202.2	122.5	98.5
110°	733.2	731.1	702.8	644.2	563.5	471.3	377.1	287.0	194.8	118.4	94.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	678.7	677.7	651.5	599.1	527.9	444.1	358.2	274.4	187.5	113.1	90.1
115°	628.4	627.4	603.3	557.2	494.4	420.0	341.5	259.8	179.1	107.9	85.9
117.5°	581.3	578.2	559.3	519.5	463.0	397.0	324.7	248.2	171.8	103.7	81.7
120°	538.4	537.3	520.6	486.0	435.7	375.0	309.0	236.7	164.4	98.5	77.5
122.5°	499.6	501.7	486.0	454.6	409.5	355.1	294.3	226.2	157.1	93.2	74.4
125°	468.2	467.1	454.6	427.3	386.5	337.3	280.7	215.8	149.8	88.0	70.2
127.5°	438.9	436.8	425.2	401.2	364.5	320.5	267.1	205.3	142.4	83.8	66.0
130°	410.6	408.5	398.0	378.1	343.6	303.7	251.4	194.8	134.1	78.6	61.8
132.5°	386.5	385.4	376.0	357.2	326.8	289.1	238.8	184.3	126.7	73.3	57.6
135°	364.5	363.5	354.0	338.3	309.0	274.4	226.2	173.9	119.4	68.1	53.4
137.5°	343.6	343.6	335.2	319.5	293.3	256.6	213.7	163.4	112.1	62.8	50.3
140°	323.7	323.7	315.3	300.6	276.5	240.9	200.1	151.9	103.7	57.6	46.1
142.5°	304.8	305.8	297.5	283.8	256.6	225.2	186.4	141.4	96.4	52.4	41.9
145°	287.0	288.0	279.7	266.0	239.9	209.5	172.8	132.0	89.0	47.1	38.8
147.5°	268.1	268.1	260.8	245.1	222.1	193.8	159.2	121.5	81.7	41.9	34.6
150°	245.1	246.1	237.8	225.2	204.2	177.0	145.6	111.0	73.3	35.6	31.4
152.5°	224.1	224.1	216.8	204.2	184.3	160.3	132.0	99.5	66.0	30.4	27.2
155°	202.2	202.2	194.8	183.3	165.5	143.5	117.3	88.0	57.6	24.1	24.1
157.5°	180.2	180.2	173.9	162.3	146.6	127.8	103.7	76.5	49.2	20.9	19.9
160°	157.1	157.1	151.9	140.4	127.8	111.0	88.0	63.9	40.8	17.8	16.8
162.5°	134.1	134.1	129.9	120.5	107.9	92.2	70.2	51.3	32.5	14.7	13.6
165°	111.0	111.0	106.8	97.4	85.9	69.1	51.3	37.7	23.0	11.5	10.5
167.5°	84.8	84.8	81.7	71.2	53.4	45.0	36.7	25.1	14.7	8.4	8.4
170°	44.0	45.0	36.7	34.6	32.5	26.2	19.9	13.6	7.3	6.3	6.3
172.5°	1.0	1.0	5.2	7.3	10.5	11.5	9.4	6.3	4.2	4.2	4.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0
2.5°	1650.7	1636.1	1620.3	1607.8	1597.3	1592.1	1583.7	1575.3	1575.3	1573.2
5°	1643.4	1619.3	1595.2	1576.4	1555.4	1544.9	1528.2	1513.5	1513.5	1511.4
7.5°	1627.7	1595.2	1563.8	1531.3	1500.9	1478.9	1453.8	1431.8	1425.5	1431.8
10°	1601.5	1557.5	1516.7	1469.5	1429.7	1393.1	1358.5	1331.3	1319.7	1323.9
12.5°	1575.3	1522.9	1468.5	1409.8	1352.2	1305.1	1260.0	1229.7	1220.2	1216.0
15°	1549.1	1484.2	1417.1	1343.8	1273.7	1209.8	1162.6	1127.0	1114.4	1110.3
17.5°	1512.5	1437.0	1356.4	1270.5	1186.7	1114.4	1062.1	1021.2	1008.7	1004.5
20°	1464.3	1380.5	1287.3	1189.9	1095.6	1017.0	955.2	918.6	899.7	898.7
22.5°	1409.8	1318.7	1217.1	1109.2	1006.6	927.0	862.0	825.4	806.5	803.4
25°	1356.4	1256.9	1145.9	1028.6	922.8	842.1	779.3	742.6	728.0	720.6
27.5°	1303.0	1197.2	1075.7	952.1	845.3	765.7	707.0	671.4	655.7	651.5
30°	1240.1	1130.2	1004.5	880.9	771.9	695.5	641.0	607.5	592.8	589.7
32.5°	1172.1	1060.0	931.1	806.5	706.0	632.6	582.4	553.0	538.4	534.2
35°	1106.1	992.9	863.1	740.5	647.3	579.2	532.1	504.9	492.3	488.1
37.5°	1040.1	925.9	796.0	681.9	594.9	531.0	489.1	463.0	452.5	448.3
40°	972.0	858.9	735.3	626.4	545.7	490.2	451.4	426.3	415.8	413.7
42.5°	908.1	799.2	679.8	578.2	501.7	451.4	417.9	395.9	383.4	382.3
45°	839.0	736.3	624.3	531.0	461.9	415.8	386.5	366.6	355.1	354.0
47.5°	779.3	678.7	572.9	487.0	425.2	384.4	357.2	338.3	328.9	326.8
50°	716.4	623.2	528.9	449.3	391.7	356.1	329.9	312.1	302.7	301.7
52.5°	659.9	574.0	485.0	412.7	361.4	327.8	304.8	288.0	278.6	276.5
55°	604.4	524.8	444.1	379.2	332.0	300.6	279.7	265.0	252.4	250.3
57.5°	553.0	479.7	406.4	346.7	304.8	277.6	255.6	239.9	230.4	227.3
60°	503.8	436.8	370.8	317.4	278.6	251.4	232.5	217.9	208.4	205.3
62.5°	456.7	397.0	337.3	289.1	251.4	228.3	210.5	196.9	187.5	183.3
65°	411.6	358.2	305.8	261.9	227.3	206.3	188.5	176.0	165.5	163.4
67.5°	370.8	322.6	275.5	233.6	204.2	185.4	167.6	156.1	146.6	143.5
70°	332.0	288.0	244.0	209.5	182.2	163.4	148.7	136.2	126.7	123.6
72.5°	294.3	253.5	215.8	185.4	160.3	142.4	128.8	116.3	107.9	106.8
75°	254.5	222.1	189.6	161.3	140.4	122.5	110.0	98.5	90.1	89.0
77.5°	221.0	191.7	163.4	139.3	120.5	103.7	92.2	81.7	72.3	71.2
80°	189.6	164.4	140.4	119.4	101.6	86.9	75.4	64.9	56.6	55.5
82.5°	161.3	139.3	119.4	101.6	84.8	72.3	60.7	50.3	42.9	41.9
85°	138.3	119.4	102.6	85.9	71.2	58.7	48.2	38.8	30.4	30.4
87.5°	119.4	104.7	90.1	74.4	58.7	45.0	34.6	24.1	16.8	14.7
90°	111.0	94.3	77.5	61.8	45.0	31.4	20.9	11.5	4.2	3.1
92.5°	108.9	93.2	76.5	59.7	42.9	29.3	18.9	9.4	2.1	1.0
95°	106.8	91.1	75.4	58.7	42.9	29.3	18.9	8.4	2.1	1.0
97.5°	103.7	89.0	74.4	57.6	41.9	28.3	17.8	8.4	2.1	1.0
100°	101.6	86.9	72.3	56.6	41.9	28.3	17.8	8.4	2.1	1.0
102.5°	98.5	84.8	70.2	55.5	39.8	27.2	16.8	7.3	1.0	1.0
105°	95.3	82.7	69.1	54.5	39.8	26.2	15.7	7.3	1.0	1.0
107.5°	92.2	80.7	67.0	52.4	37.7	25.1	14.7	6.3	1.0	1.0
110°	89.0	77.5	64.9	51.3	36.7	24.1	14.7	6.3	1.0	1.0



REPORT NUMBER: P290570
 CATALOG NUMBER: AXCS5ARL-GRF

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	84.8	74.4	61.8	49.2	35.6	23.0	13.6	5.2	0.0	0.0
115°	81.7	71.2	59.7	47.1	33.5	22.0	12.6	5.2	0.0	0.0
117.5°	77.5	68.1	57.6	45.0	32.5	20.9	11.5	4.2	0.0	0.0
120°	74.4	64.9	54.5	42.9	31.4	19.9	11.5	4.2	0.0	0.0
122.5°	70.2	61.8	52.4	40.8	29.3	18.9	10.5	3.1	0.0	0.0
125°	66.0	58.7	49.2	38.8	28.3	16.8	9.4	3.1	0.0	0.0
127.5°	62.8	55.5	47.1	36.7	26.2	15.7	8.4	2.1	0.0	0.0
130°	58.7	52.4	44.0	34.6	25.1	14.7	8.4	2.1	0.0	0.0
132.5°	54.5	49.2	41.9	32.5	23.0	13.6	7.3	2.1	0.0	0.0
135°	51.3	46.1	38.8	30.4	22.0	12.6	6.3	2.1	0.0	0.0
137.5°	48.2	42.9	36.7	28.3	19.9	11.5	5.2	2.1	0.0	0.0
140°	44.0	39.8	33.5	26.2	17.8	10.5	5.2	1.0	0.0	0.0
142.5°	39.8	35.6	30.4	24.1	16.8	9.4	4.2	1.0	0.0	0.0
145°	36.7	32.5	28.3	22.0	14.7	8.4	3.1	1.0	0.0	0.0
147.5°	33.5	30.4	25.1	19.9	13.6	7.3	3.1	1.0	0.0	0.0
150°	29.3	27.2	23.0	17.8	11.5	6.3	3.1	1.0	0.0	0.0
152.5°	26.2	24.1	19.9	15.7	10.5	5.2	2.1	1.0	0.0	0.0
155°	23.0	19.9	16.8	12.6	8.4	4.2	2.1	1.0	0.0	0.0
157.5°	19.9	17.8	14.7	10.5	7.3	3.1	2.1	1.0	0.0	0.0
160°	16.8	14.7	12.6	9.4	5.2	3.1	1.0	1.0	0.0	0.0
162.5°	13.6	11.5	10.5	7.3	4.2	3.1	1.0	1.0	0.0	0.0
165°	10.5	9.4	7.3	5.2	3.1	2.1	1.0	0.0	0.0	0.0
167.5°	8.4	7.3	6.3	4.2	3.1	2.1	1.0	0.0	0.0	0.0
170°	6.3	5.2	4.2	3.1	3.1	2.1	1.0	0.0	0.0	0.0
172.5°	4.2	3.1	3.1	3.1	2.1	1.0	1.0	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
177.5°	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

(END OF REPORT)