

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: P290554

Luminaire Tested: **AXCS5ARL-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1811-024-10)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: AXCS5ARL-W
Description: 5ARL AXCENT SMALL LED WALLPACK WITH 3000K CCT AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5661.1 lumens
Efficiency: N/A
Efficacy: 110.8 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

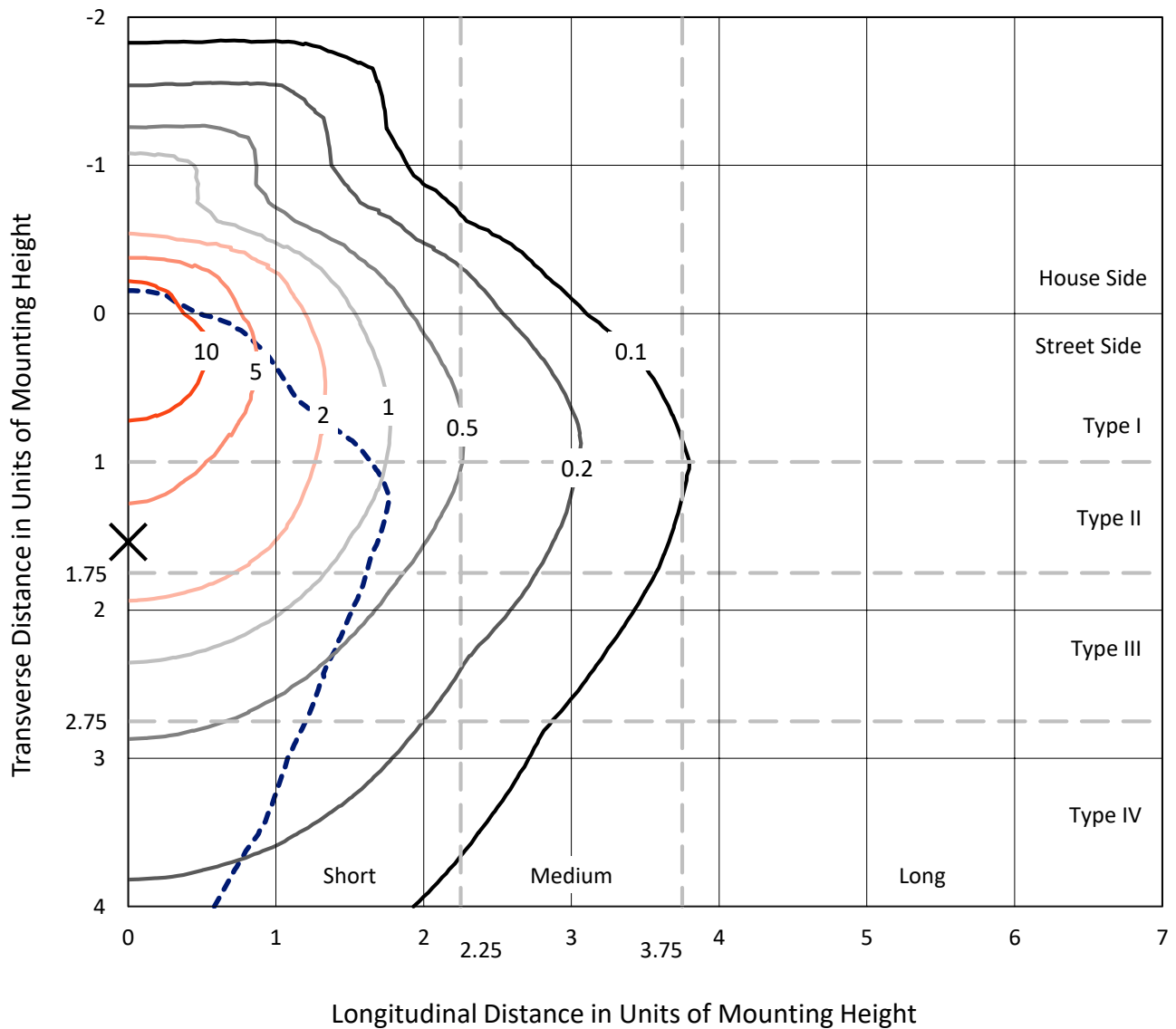
Input Watts (W): 51.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

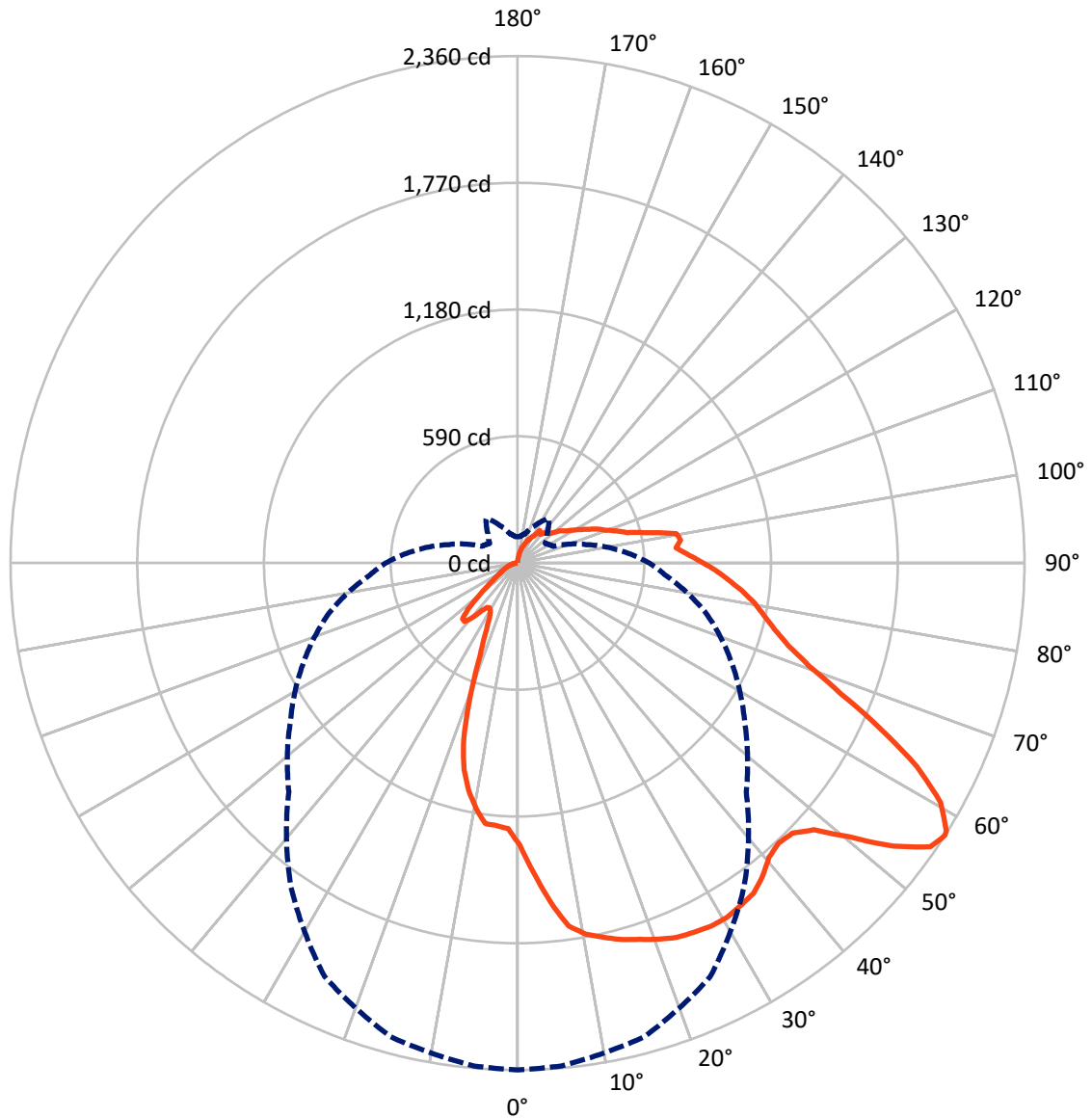
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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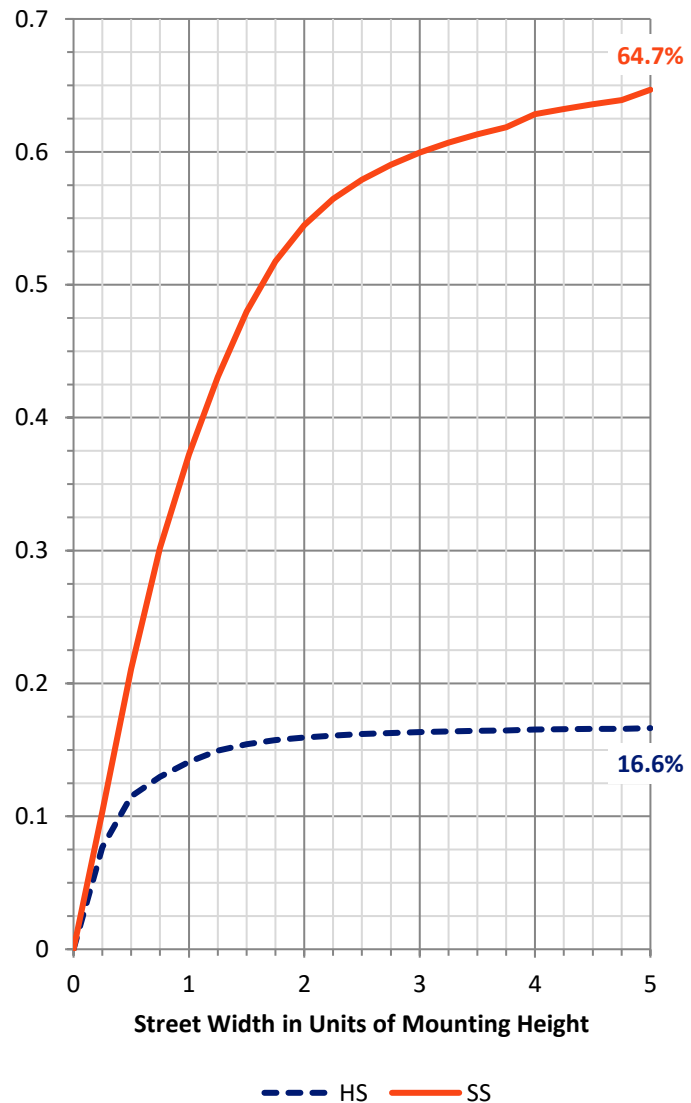
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	960.9	64.6	1025.5
	% Fixture	17.0	1.1	18.1
Street Side	Lumens	3883.2	752.4	4635.6
	% Fixture	68.6	13.3	81.9
Total	Lumens	4844.2	816.9	5661.1
	% Fixture	85.6	14.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.2	2.3
10°-20°	389.3	6.9
20°-30°	563.9	10.0
30°-40°	667.1	11.8
40°-50°	725.1	12.8
50°-60°	804.6	14.2
60°-70°	714.5	12.6
70°-80°	494.4	8.7
80°-90°	354.1	6.3
90°-100°	268.7	4.7
100°-110°	194.9	3.4
110°-120°	133.9	2.4
120°-130°	91.1	1.6
130°-140°	61.7	1.1
140°-150°	39.7	0.7
150°-160°	19.9	0.4
160°-170°	6.6	0.1
170°-180°	0.5	0.0
0°-90°	4844.2	85.6
0°-180°	5661.1	100.0

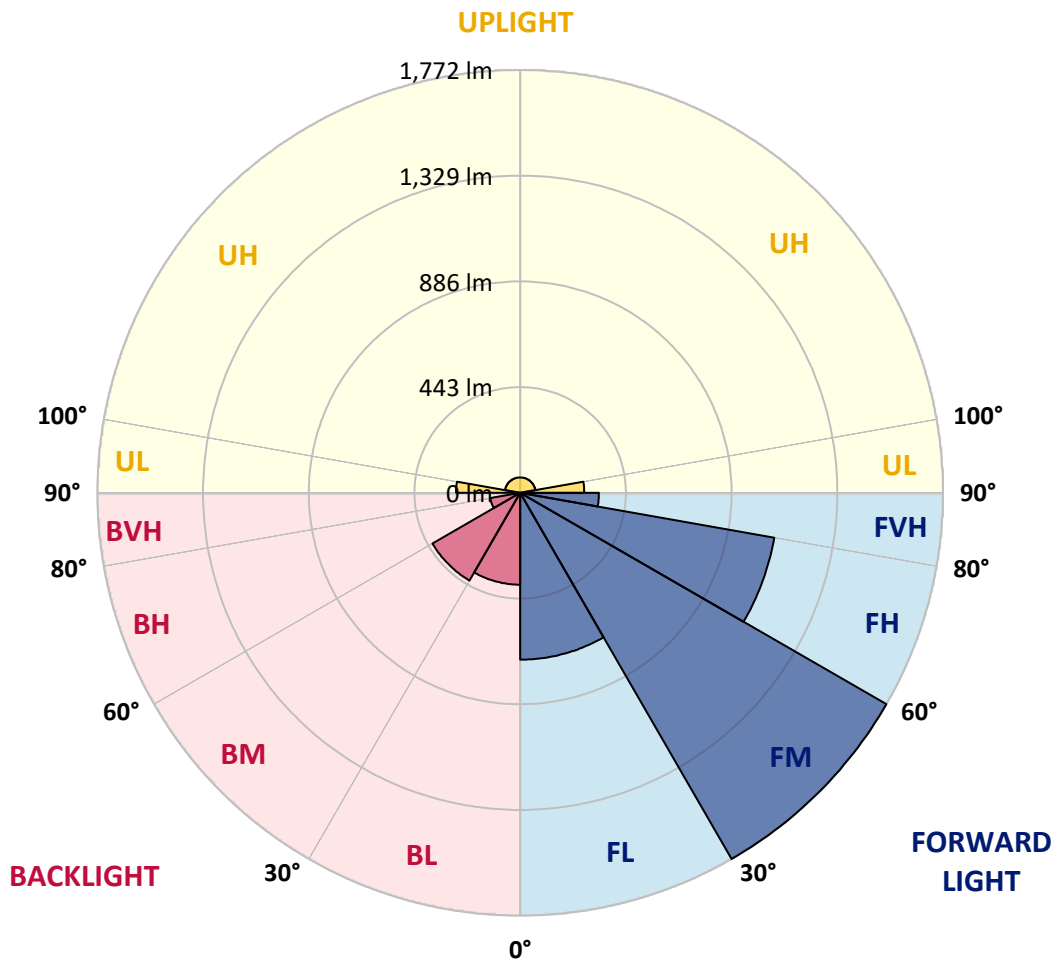


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	699.2	12.4			
FM (30°-60°)	1772.5	31.3			
FH (60°-80°)	1081.5	19.1			G1/1800
FVH (80°-90°)	330.1	5.8			G3/500
BL (0°-30°)	385.2	6.8	B1/500		
BM (30°-60°)	424.3	7.5	B1/1000		
BH (60°-80°)	127.4	2.3	B1/500		G1/500
BVH (80°-90°)	24.0	0.4			G1/100
UL (90°-100°)	268.7	4.7		U3/500	
UH (100°-180°)	64.6	1.1		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°	1313.2	1313.2	1313.2	1313.2	1313.2	1313.2	1313.2	1313.2	1313.2	1313.2	1313.2
2.5°	1444.2	1432.4	1434.1	1425.6	1412.1	1401.1	1383.4	1363.1	1342.8	1316.6	1304.8
5°	1582.8	1571.8	1560.8	1543.1	1512.6	1483.1	1456.9	1412.1	1369.8	1322.5	1300.5
7.5°	1706.2	1696.0	1688.4	1668.1	1634.3	1586.2	1518.6	1459.4	1394.3	1325.0	1294.6
10°	1757.7	1753.5	1747.6	1735.7	1711.2	1672.4	1602.2	1505.9	1418.0	1325.9	1286.2
12.5°	1789.0	1784.8	1779.7	1765.3	1745.0	1714.6	1663.1	1558.3	1435.7	1324.2	1272.7
15°	1819.4	1816.0	1806.7	1790.7	1763.6	1732.4	1687.6	1598.8	1456.0	1318.3	1260.0
17.5°	1842.2	1840.5	1832.1	1811.8	1782.2	1744.2	1696.0	1620.8	1475.5	1312.4	1243.9
20°	1870.1	1868.4	1854.1	1827.9	1794.9	1751.0	1696.9	1623.4	1487.3	1302.2	1225.3
22.5°	1893.8	1892.9	1879.4	1853.2	1805.9	1753.5	1693.5	1616.6	1491.5	1290.4	1203.4
25°	1904.8	1905.6	1891.2	1865.9	1824.5	1753.5	1684.2	1603.1	1483.9	1274.3	1179.7
27.5°	1915.7	1915.7	1900.5	1871.0	1827.9	1761.1	1670.7	1583.6	1465.3	1253.2	1151.0
30°	1916.6	1919.1	1903.9	1871.0	1822.8	1758.6	1658.8	1560.8	1440.0	1227.0	1121.4
32.5°	1903.1	1904.8	1892.1	1865.9	1812.6	1740.8	1643.6	1528.7	1404.5	1194.9	1083.4
35°	1890.4	1888.7	1875.2	1846.4	1797.4	1720.5	1617.4	1491.5	1359.7	1154.3	1043.6
37.5°	1852.4	1853.2	1843.9	1821.1	1773.8	1692.6	1580.3	1447.6	1308.1	1108.7	994.6
40°	1802.5	1802.5	1790.7	1773.8	1739.1	1660.5	1539.7	1401.9	1251.5	1056.3	946.5
42.5°	1782.2	1777.2	1754.3	1723.1	1691.0	1620.0	1494.9	1348.7	1191.5	1010.7	897.4
45°	1794.1	1791.5	1763.6	1701.9	1636.0	1555.7	1434.9	1284.5	1143.4	960.0	854.4
47.5°	1855.7	1843.9	1801.7	1726.4	1616.6	1497.4	1363.9	1229.6	1095.2	899.1	806.2
50°	2004.5	1993.5	1926.7	1793.2	1643.6	1464.5	1308.1	1183.9	1047.9	855.2	750.4
52.5°	2190.4	2179.4	2089.8	1926.7	1701.1	1461.9	1286.2	1142.5	998.9	791.0	703.9
55°	2332.4	2316.3	2242.8	2059.4	1786.4	1483.9	1283.6	1129.8	956.6	751.3	642.2
57°	2360.2	2350.1	2283.3	2124.5	1839.7	1505.9	1291.2	1100.3	910.1	695.5	613.5
57.5°	2354.3	2343.3	2281.6	2129.5	1846.4	1508.4	1295.5	1100.3	902.5	693.8	608.4
60°	2263.9	2247.8	2202.2	2074.6	1827.0	1506.7	1292.1	1080.8	870.4	643.9	540.8
62.5°	2086.4	2063.6	2009.5	1890.4	1699.4	1423.9	1242.2	1063.9	846.7	600.8	496.0
65°	1854.1	1834.6	1763.6	1667.3	1500.0	1289.6	1183.1	1037.7	826.5	562.8	462.2
67.5°	1622.5	1603.9	1546.5	1430.7	1262.5	1121.4	1046.2	981.1	800.3	536.6	419.1
70°	1440.8	1429.8	1364.8	1237.2	1079.1	943.9	919.4	912.7	765.6	508.7	379.4
72.5°	1320.0	1309.0	1241.4	1109.6	941.4	810.4	825.6	808.7	741.1	487.6	338.9
75°	1236.3	1228.7	1152.7	1017.4	851.8	714.1	702.2	709.8	684.5	458.9	297.5
77.5°	1172.1	1165.3	1085.9	951.5	784.2	641.4	629.6	654.1	634.6	425.9	250.1
80°	1117.2	1104.5	1029.3	895.8	741.1	589.8	571.3	567.9	563.7	360.0	195.2
82.5°	1051.2	1038.6	966.7	844.2	700.6	560.3	528.2	516.3	462.2	279.7	144.5
85°	982.8	970.1	905.9	794.4	664.2	523.1	493.5	474.9	414.9	206.2	97.2
87.5°	920.3	907.6	845.9	745.3	626.2	497.7	459.7	427.6	349.0	150.4	68.4
90°	851.0	844.2	791.8	699.7	594.1	469.9	434.4	393.0	302.5	122.5	62.5
92.5°	790.1	785.9	740.3	659.1	564.5	454.6	406.5	354.9	262.0	101.4	56.6
95°	741.1	734.4	695.5	626.2	541.7	439.4	396.3	325.3	224.8	87.9	57.5
97.5°	767.3	764.8	726.7	648.2	551.8	443.7	372.7	298.3	196.1	83.7	60.0
100°	751.3	747.0	708.2	627.9	538.3	419.1	341.4	265.3	163.9	85.4	64.2
102.5°	624.5	621.1	599.1	537.5	464.8	369.3	294.1	223.9	152.1	87.9	69.3
105°	529.0	525.6	504.5	465.6	407.3	327.0	264.5	201.1	146.2	91.3	72.7
107.5°	482.5	482.5	466.5	431.0	379.4	308.4	248.4	196.9	139.4	93.8	75.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	436.9	435.2	420.8	393.8	344.8	289.0	240.0	187.6	132.7	94.6	76.1
112.5°	404.8	398.9	387.9	364.2	317.7	272.1	229.0	173.2	127.6	93.8	76.1
115°	364.2	361.7	352.4	333.0	294.9	255.2	212.1	158.9	125.1	92.1	73.5
117.5°	331.3	329.6	321.1	302.5	272.1	239.2	196.1	149.6	121.7	88.7	70.1
120°	301.7	299.1	293.2	274.6	248.4	221.4	182.5	143.7	117.5	84.5	66.8
122.5°	275.5	274.6	269.6	252.7	233.2	207.0	170.7	140.3	113.2	79.4	61.7
125°	256.9	256.1	247.6	231.5	211.3	194.4	164.8	137.7	107.3	73.5	56.6
127.5°	241.7	240.8	234.1	218.0	206.2	182.5	155.5	130.1	100.6	67.6	52.4
130°	217.2	215.5	210.4	204.5	194.4	170.7	153.0	122.5	93.8	62.5	48.2
132.5°	200.3	200.3	202.8	198.6	181.7	161.4	144.5	115.8	87.9	57.5	44.8
135°	200.3	200.3	196.1	186.8	170.7	163.9	136.1	107.3	82.8	52.4	40.6
137.5°	188.4	187.6	183.4	174.1	165.6	155.5	125.9	99.7	76.9	48.2	37.2
140°	173.2	172.4	169.0	167.3	171.5	142.0	117.5	94.6	71.8	43.9	33.8
142.5°	169.9	170.7	180.8	178.3	152.1	131.8	109.0	87.9	66.8	39.7	31.3
145°	183.4	180.0	172.4	153.8	138.6	120.0	103.9	84.5	61.7	35.5	27.9
147.5°	152.1	151.3	147.0	141.1	127.6	114.9	95.5	77.7	55.8	31.3	25.4
150°	142.8	142.8	138.6	127.6	117.5	104.8	87.9	71.0	49.9	27.9	22.8
152.5°	124.2	123.4	120.8	119.2	109.0	93.0	81.1	63.4	43.9	23.7	20.3
155°	117.5	117.5	117.5	105.6	94.6	85.4	72.7	55.8	38.9	20.3	17.7
157.5°	100.6	98.9	97.2	92.1	86.2	76.1	62.5	48.2	33.8	16.9	15.2
160°	88.7	89.6	87.9	82.8	76.1	65.9	53.2	40.6	28.7	13.5	12.7
162.5°	77.7	76.9	76.1	71.8	64.2	54.9	43.9	33.0	23.7	11.0	11.0
165°	65.1	64.2	61.7	58.3	51.5	43.1	33.8	27.0	17.7	9.3	8.5
167.5°	49.9	49.9	48.2	43.9	38.9	31.3	24.5	19.4	11.8	7.6	6.8
170°	36.3	36.3	34.6	29.6	22.8	19.4	16.9	11.8	7.6	5.9	5.9
172.5°	14.4	15.2	14.4	14.4	12.7	10.1	8.5	6.8	4.2	4.2	4.2
175°	0.8	0.8	1.7	3.4	4.2	4.2	4.2	3.4	4.2	4.2	4.2
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°	1313.2	1313.2	1313.2	1313.2	1313.2	1313.2	1313.2	1313.2	1313.2	1313.2
2.5°	1297.2	1292.1	1281.1	1264.2	1251.5	1244.8	1238.0	1238.9	1234.6	1237.2
5°	1285.3	1268.4	1246.5	1227.0	1218.6	1216.9	1219.4	1224.5	1226.2	1226.2
7.5°	1272.7	1244.8	1221.1	1214.3	1218.6	1222.8	1223.6	1226.2	1222.8	1222.8
10°	1258.3	1218.6	1207.6	1211.8	1214.3	1202.5	1182.2	1171.2	1165.3	1161.1
12.5°	1238.9	1197.4	1200.8	1201.7	1175.5	1142.5	1113.8	1096.9	1086.7	1086.7
15°	1217.7	1178.0	1187.3	1164.5	1118.0	1074.1	1044.5	1019.1	999.7	993.8
17.5°	1195.8	1160.3	1167.9	1111.2	1054.6	1000.5	942.2	885.6	862.8	857.7
20°	1171.2	1140.0	1128.1	1055.5	984.5	893.2	796.0	709.8	661.7	657.5
22.5°	1143.4	1114.6	1075.8	992.1	892.4	752.1	616.0	519.7	477.5	463.9
25°	1113.8	1086.7	1025.9	922.0	766.5	588.2	446.2	380.3	352.4	355.8
27.5°	1081.7	1050.4	971.8	834.9	617.7	439.4	343.9	303.4	287.3	285.6
30°	1047.0	1006.5	909.3	729.3	485.1	343.1	288.2	265.3	257.7	256.1
32.5°	1008.2	958.3	837.5	605.1	382.0	287.3	257.7	249.3	246.8	245.9
35°	961.7	899.1	752.9	493.5	311.0	256.1	244.2	245.9	250.1	251.0
37.5°	912.7	835.8	664.2	396.3	267.9	239.2	240.8	258.6	276.3	278.9
40°	860.3	776.6	565.3	325.3	240.0	229.9	251.0	293.2	322.0	329.6
42.5°	823.1	707.3	476.6	273.8	223.1	228.2	276.3	337.2	365.1	367.6
45°	771.5	643.9	398.0	240.0	210.4	235.8	308.4	360.0	365.1	365.1
47.5°	719.1	578.9	332.1	215.5	202.0	251.0	332.1	343.9	316.1	313.5
50°	667.6	505.3	277.2	195.2	197.7	268.7	324.5	283.1	244.2	240.8
52.5°	617.7	442.0	236.6	179.2	196.1	278.9	287.3	219.7	184.2	184.2
55°	566.2	375.2	204.5	167.3	196.1	272.1	237.5	170.7	145.3	142.0
57°	517.2	331.3	184.2	158.0	196.1	254.4	192.7	142.0	123.4	121.7
57.5°	506.2	321.1	180.8	156.3	196.1	249.3	184.2	136.9	117.5	116.6
60°	460.6	269.6	160.6	147.0	194.4	214.6	147.0	111.5	98.0	97.2
62.5°	414.1	231.5	144.5	138.6	186.8	180.0	123.4	94.6	83.7	82.8
65°	375.2	196.1	131.0	131.0	175.8	147.0	102.3	81.1	71.0	70.1
67.5°	333.8	166.5	120.0	122.5	159.7	121.7	85.4	69.3	60.8	60.0
70°	283.1	142.8	109.9	114.1	142.0	101.4	71.8	58.3	51.5	50.7
72.5°	241.7	122.5	101.4	105.6	122.5	84.5	61.7	49.9	42.3	42.3
75°	189.3	105.6	93.0	96.3	103.9	69.3	51.5	41.4	34.6	33.8
77.5°	144.5	91.3	84.5	87.0	87.9	56.6	42.3	34.6	27.9	27.9
80°	103.1	78.6	77.7	77.7	72.7	47.3	36.3	27.9	22.8	22.0
82.5°	77.7	67.6	71.0	69.3	60.0	39.7	30.4	22.8	16.9	16.1
85°	61.7	59.2	64.2	61.7	49.0	33.8	25.4	16.9	11.8	11.0
87.5°	50.7	53.2	58.3	51.5	37.2	24.5	16.1	9.3	4.2	3.4
90°	46.5	49.9	52.4	43.1	29.6	17.7	10.1	4.2	0.8	0.0
92.5°	47.3	49.0	50.7	40.6	27.9	16.1	9.3	4.2	0.8	0.0
95°	49.9	49.9	49.0	39.7	27.0	16.1	9.3	4.2	0.8	0.0
97.5°	53.2	50.7	48.2	38.9	26.2	16.1	8.5	4.2	0.8	0.0
100°	56.6	51.5	48.2	38.0	26.2	15.2	8.5	4.2	0.8	0.0
102.5°	60.0	52.4	48.2	38.0	25.4	15.2	8.5	4.2	0.8	0.0
105°	62.5	52.4	47.3	38.0	25.4	15.2	8.5	4.2	0.8	0.0
107.5°	64.2	52.4	46.5	37.2	25.4	14.4	8.5	4.2	0.8	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	65.1	51.5	44.8	36.3	24.5	14.4	7.6	3.4	0.8	0.0
112.5°	64.2	50.7	43.1	34.6	23.7	13.5	7.6	3.4	0.8	0.0
115°	61.7	49.0	41.4	33.0	22.8	13.5	7.6	3.4	0.8	0.0
117.5°	59.2	46.5	39.7	31.3	22.0	12.7	6.8	3.4	0.8	0.0
120°	56.6	43.9	37.2	29.6	20.3	11.8	6.8	3.4	0.0	0.0
122.5°	53.2	42.3	35.5	27.9	19.4	11.8	5.9	2.5	0.0	0.0
125°	49.9	39.7	33.8	27.0	18.6	11.0	5.9	2.5	0.0	0.0
127.5°	46.5	37.2	31.3	25.4	17.7	10.1	5.9	2.5	0.0	0.0
130°	43.1	35.5	29.6	23.7	16.9	9.3	5.1	2.5	0.0	0.0
132.5°	39.7	33.0	27.0	22.0	15.2	9.3	5.1	2.5	0.0	0.0
135°	36.3	30.4	25.4	20.3	14.4	8.5	4.2	1.7	0.0	0.0
137.5°	33.8	28.7	23.7	19.4	13.5	7.6	4.2	1.7	0.0	0.0
140°	31.3	26.2	22.0	17.7	12.7	6.8	4.2	1.7	0.0	0.0
142.5°	28.7	24.5	20.3	16.1	11.0	6.8	3.4	1.7	0.0	0.0
145°	26.2	22.0	18.6	14.4	10.1	5.9	3.4	1.7	0.0	0.0
147.5°	23.7	20.3	16.9	13.5	8.5	5.1	2.5	0.8	0.0	0.0
150°	21.1	18.6	15.2	11.8	7.6	4.2	2.5	0.8	0.0	0.0
152.5°	19.4	16.1	13.5	10.1	6.8	4.2	1.7	0.8	0.0	0.0
155°	16.9	14.4	11.8	9.3	5.9	3.4	1.7	0.8	0.0	0.0
157.5°	14.4	12.7	10.1	7.6	5.1	2.5	0.8	0.8	0.0	0.0
160°	12.7	11.0	9.3	6.8	4.2	2.5	0.8	0.0	0.0	0.0
162.5°	10.1	9.3	7.6	5.1	3.4	1.7	0.8	0.0	0.0	0.0
165°	8.5	7.6	5.9	4.2	2.5	1.7	0.8	0.0	0.0	0.0
167.5°	6.8	5.9	5.1	3.4	2.5	0.8	0.8	0.0	0.0	0.0
170°	5.9	5.1	4.2	2.5	1.7	0.8	0.8	0.0	0.0	0.0
172.5°	4.2	4.2	3.4	1.7	0.8	0.8	0.0	0.0	0.0	0.0
175°	4.2	3.4	1.7	1.7	0.8	0.8	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)