

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: P290551

Luminaire Tested: **AXCS4ARL-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290551
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: AXCS4ARL-W
Description: 4ARL AXCENT SMALL LED WALLPACK WITH 3000K CCT AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4950.4 lumens
Efficiency: N/A
Efficacy: 117.6 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 - U3 - G3

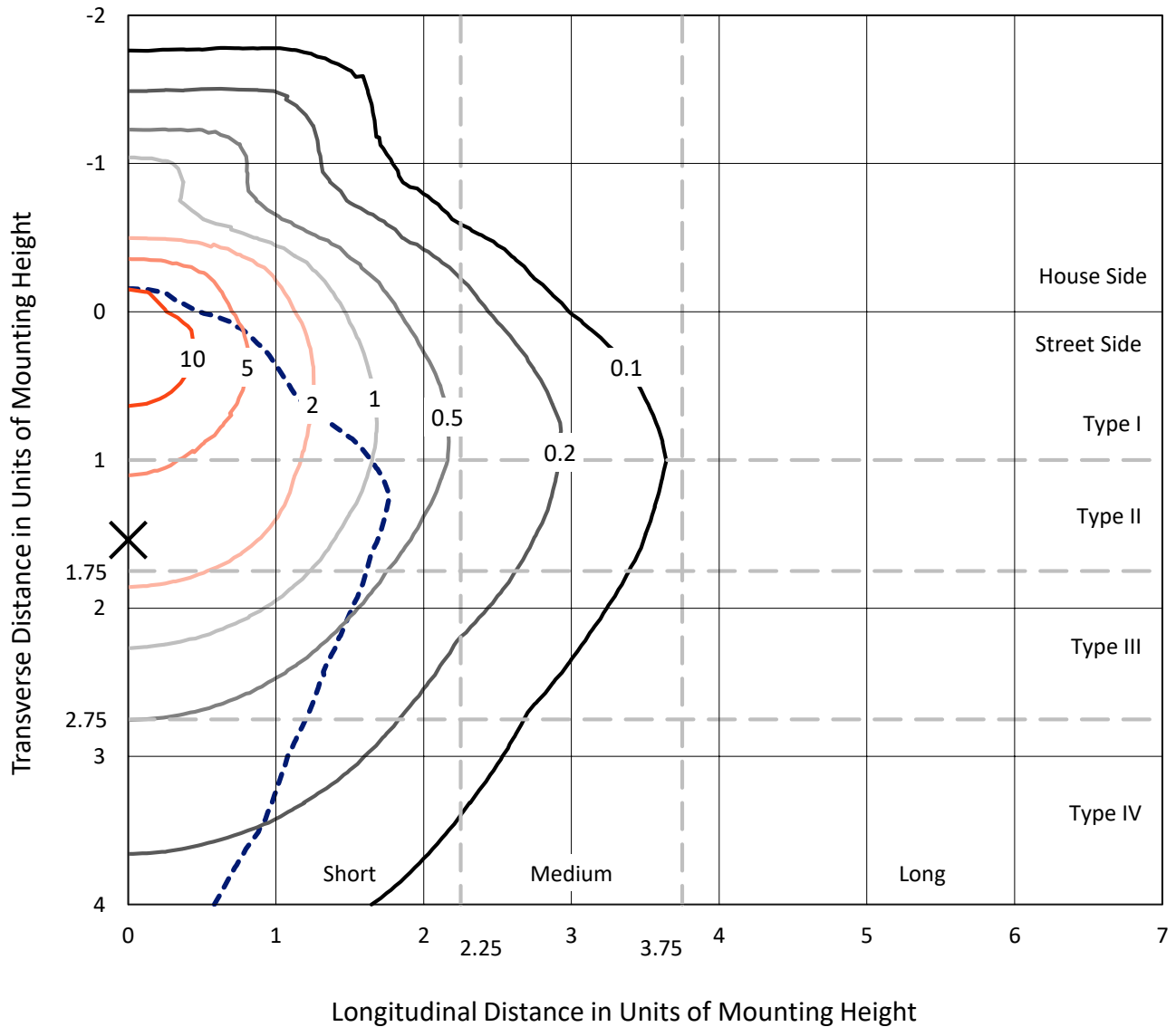
Input Watts (W): 42.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

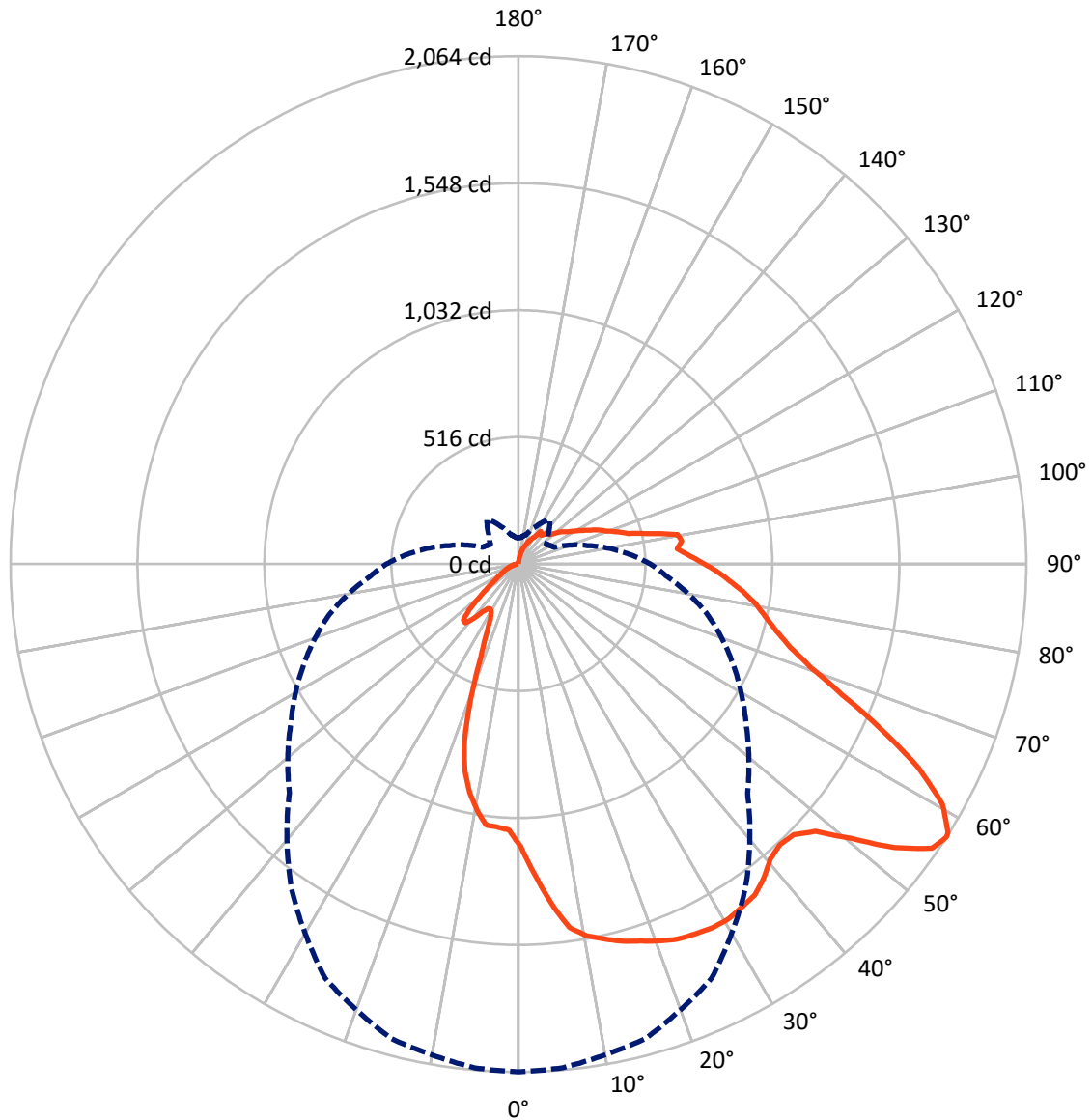
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.4 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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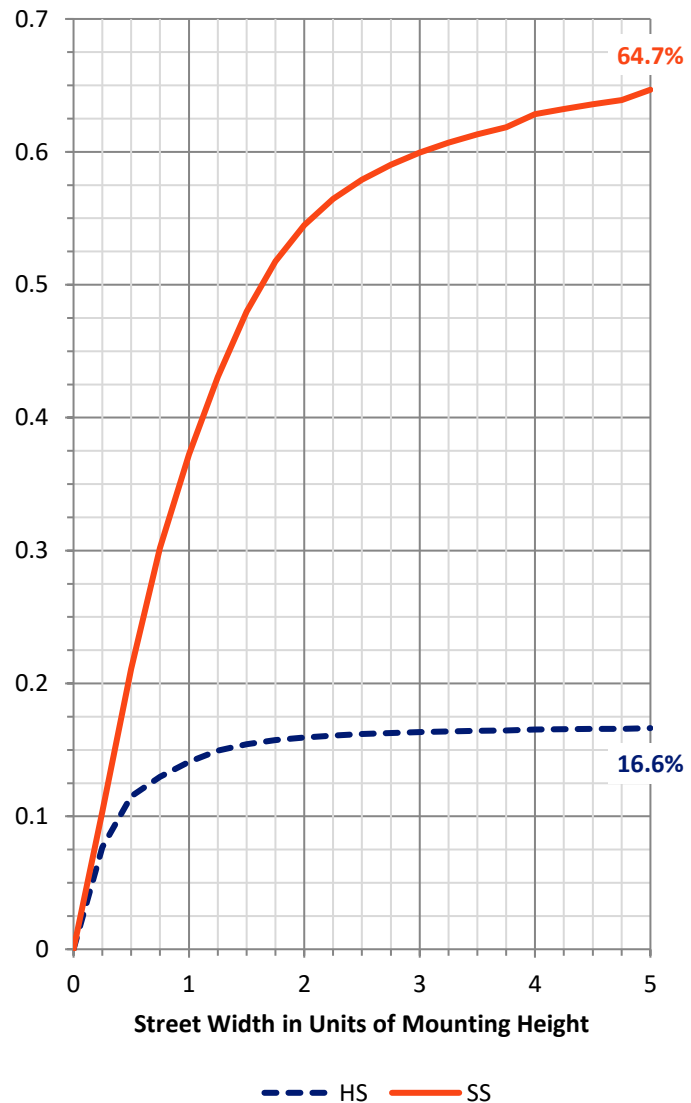
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	840.3	56.5	896.8
	% Fixture	17.0	1.1	18.1
Street Side	Lumens	3395.7	657.9	4053.6
	% Fixture	68.6	13.3	81.9
Total	Lumens	4236.0	714.4	4950.4
	% Fixture	85.6	14.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	2.3
10°-20°	340.5	6.9
20°-30°	493.1	10.0
30°-40°	583.4	11.8
40°-50°	634.0	12.8
50°-60°	703.6	14.2
60°-70°	624.8	12.6
70°-80°	432.3	8.7
80°-90°	309.7	6.3
90°-100°	235.0	4.7
100°-110°	170.5	3.4
110°-120°	117.1	2.4
120°-130°	79.6	1.6
130°-140°	53.9	1.1
140°-150°	34.7	0.7
150°-160°	17.4	0.4
160°-170°	5.7	0.1
170°-180°	0.4	0.0
0°-90°	4236.0	85.6
0°-180°	4950.4	100.0

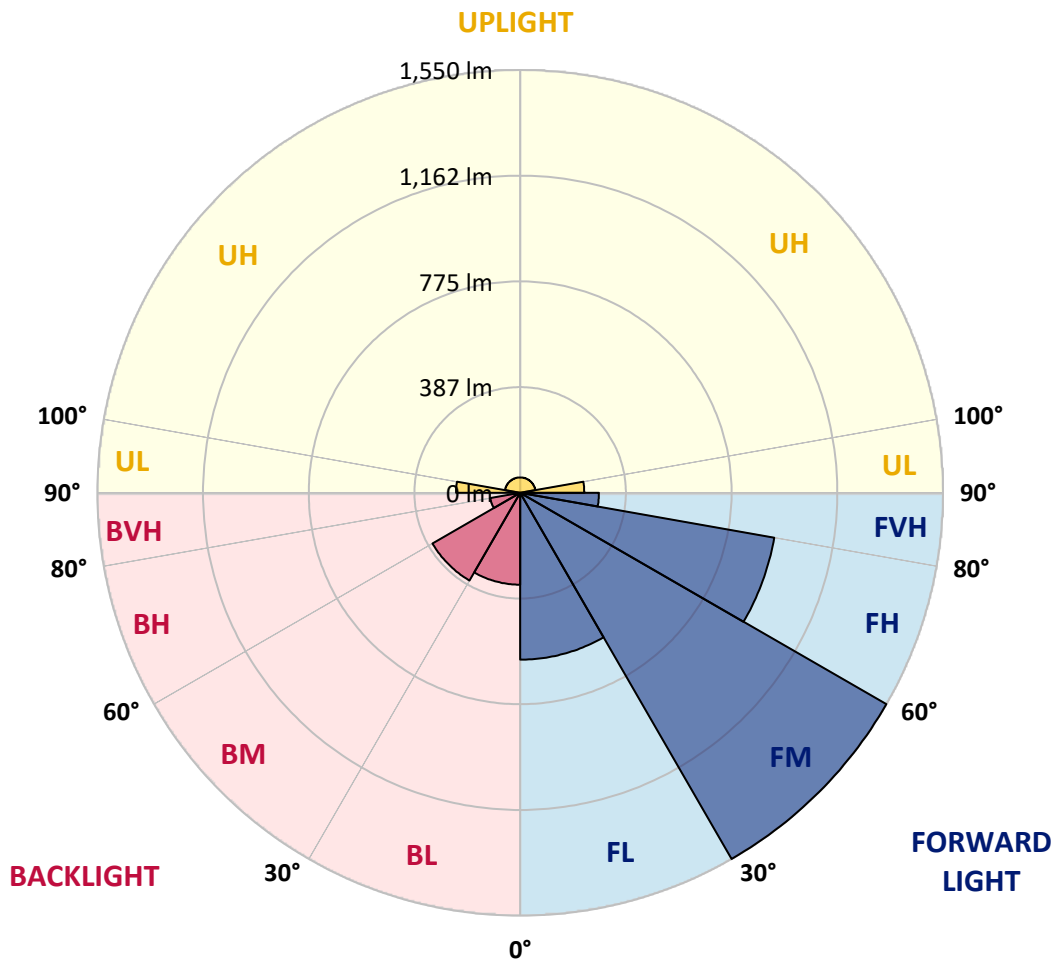


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	611.4	12.4			
FM (30°-60°)	1549.9	31.3			
FH (60°-80°)	945.7	19.1			G1/1800
FVH (80°-90°)	288.7	5.8			G3/500
BL (0°-30°)	336.8	6.8	B1/500		
BM (30°-60°)	371.0	7.5	B1/1000		
BH (60°-80°)	111.5	2.3	B1/500		G1/500
BVH (80°-90°)	21.0	0.4			G1/100
UL (90°-100°)	235.0	4.7		U3/500	
UH (100°-180°)	56.5	1.1		U3/500	

BUG Rating: B1-U3-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4
2.5°	1262.9	1252.5	1254.0	1246.6	1234.8	1225.2	1209.7	1192.0	1174.2	1151.3	1141.0
5°	1384.1	1374.5	1364.9	1349.4	1322.7	1296.9	1274.0	1234.8	1197.9	1156.5	1137.3
7.5°	1492.0	1483.1	1476.5	1458.7	1429.2	1387.0	1327.9	1276.2	1219.3	1158.7	1132.1
10°	1537.0	1533.4	1528.2	1517.8	1496.4	1462.4	1401.1	1316.8	1240.0	1159.4	1124.7
12.5°	1564.4	1560.7	1556.3	1543.7	1526.0	1499.4	1454.3	1362.7	1255.5	1158.0	1112.9
15°	1591.0	1588.0	1579.9	1565.9	1542.2	1514.9	1475.7	1398.1	1273.2	1152.8	1101.8
17.5°	1610.9	1609.5	1602.1	1584.3	1558.5	1525.2	1483.1	1417.3	1290.2	1147.6	1087.8
20°	1635.3	1633.9	1621.3	1598.4	1569.6	1531.1	1483.8	1419.6	1300.6	1138.7	1071.5
22.5°	1656.0	1655.3	1643.5	1620.6	1579.2	1533.4	1480.9	1413.6	1304.3	1128.4	1052.3
25°	1665.6	1666.4	1653.8	1631.6	1595.4	1533.4	1472.8	1401.8	1297.6	1114.4	1031.6
27.5°	1675.2	1675.2	1661.9	1636.1	1598.4	1540.0	1460.9	1384.8	1281.4	1095.9	1006.5
30°	1676.0	1678.2	1664.9	1636.1	1594.0	1537.8	1450.6	1364.9	1259.2	1073.0	980.6
32.5°	1664.2	1665.6	1654.5	1631.6	1585.1	1522.3	1437.3	1336.8	1228.2	1044.9	947.4
35°	1653.1	1651.6	1639.8	1614.6	1571.8	1504.5	1414.4	1304.3	1189.0	1009.4	912.6
37.5°	1619.8	1620.6	1612.4	1592.5	1551.1	1480.1	1381.9	1265.8	1143.9	969.5	869.8
40°	1576.2	1576.2	1565.9	1551.1	1520.8	1452.1	1346.4	1225.9	1094.4	923.7	827.6
42.5°	1558.5	1554.0	1534.1	1506.8	1478.7	1416.6	1307.2	1179.4	1041.9	883.8	784.8
45°	1568.8	1566.6	1542.2	1488.3	1430.6	1360.4	1254.8	1123.2	999.8	839.5	747.1
47.5°	1622.8	1612.4	1575.5	1509.7	1413.6	1309.4	1192.7	1075.2	957.7	786.3	705.0
50°	1752.8	1743.2	1684.8	1568.1	1437.3	1280.6	1143.9	1035.3	916.3	747.8	656.2
52.5°	1915.4	1905.8	1827.5	1684.8	1487.5	1278.4	1124.7	999.1	873.5	691.7	615.6
55°	2039.5	2025.5	1961.2	1800.9	1562.2	1297.6	1122.5	988.0	836.5	656.9	561.6
57°	2063.9	2055.1	1996.7	1857.8	1608.7	1316.8	1129.1	962.1	795.9	608.2	536.5
57.5°	2058.8	2049.2	1995.2	1862.2	1614.6	1319.1	1132.8	962.1	789.2	606.7	532.1
60°	1979.7	1965.7	1925.7	1814.2	1597.6	1317.6	1129.9	945.1	761.1	563.1	472.9
62.5°	1824.5	1804.6	1757.3	1653.1	1486.1	1245.2	1086.3	930.4	740.4	525.4	433.8
65°	1621.3	1604.3	1542.2	1458.0	1311.7	1127.7	1034.6	907.5	722.7	492.2	404.2
67.5°	1418.8	1402.6	1352.3	1251.1	1104.0	980.6	914.8	857.9	699.8	469.2	366.5
70°	1259.9	1250.3	1193.4	1081.8	943.7	825.4	804.0	798.1	669.5	444.9	331.8
72.5°	1154.3	1144.7	1085.5	970.3	823.2	708.7	722.0	707.2	648.1	426.4	296.3
75°	1081.1	1074.5	1008.0	889.7	744.9	624.4	614.1	620.7	598.6	401.3	260.1
77.5°	1024.9	1019.0	949.6	832.1	685.8	560.9	550.5	572.0	555.0	372.4	218.7
80°	976.9	965.8	900.1	783.3	648.1	515.8	499.5	496.6	492.9	314.8	170.7
82.5°	919.3	908.2	845.4	738.2	612.6	489.9	461.9	451.5	404.2	244.6	126.4
85°	859.4	848.3	792.2	694.6	580.8	457.4	431.6	415.3	362.8	180.3	85.0
87.5°	804.7	793.6	739.7	651.8	547.6	435.3	402.0	373.9	305.2	131.5	59.9
90°	744.1	738.2	692.4	611.9	519.5	410.9	379.8	343.6	264.5	107.2	54.7
92.5°	690.9	687.2	647.3	576.4	493.6	397.6	355.4	310.4	229.1	88.7	49.5
95°	648.1	642.2	608.2	547.6	473.7	384.3	346.6	284.5	196.6	76.9	50.2
97.5°	671.0	668.8	635.5	566.8	482.5	388.0	325.9	260.9	171.4	73.2	52.5
100°	656.9	653.2	619.3	549.1	470.7	366.5	298.5	232.0	143.4	74.6	56.2
102.5°	546.1	543.1	523.9	470.0	406.4	322.9	257.2	195.8	133.0	76.9	60.6
105°	462.6	459.6	441.2	407.2	356.2	286.0	231.3	175.9	127.8	79.8	63.6
107.5°	421.9	421.9	407.9	376.9	331.8	269.7	217.3	172.2	121.9	82.0	65.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	382.0	380.6	368.0	344.4	301.5	252.7	209.9	164.1	116.0	82.8	66.5
112.5°	354.0	348.8	339.2	318.5	277.9	237.9	200.3	151.5	111.6	82.0	66.5
115°	318.5	316.3	308.1	291.2	257.9	223.2	185.5	138.9	109.4	80.5	64.3
117.5°	289.7	288.2	280.8	264.5	237.9	209.1	171.4	130.8	106.4	77.6	61.3
120°	263.8	261.6	256.4	240.2	217.3	193.6	159.6	125.6	102.7	73.9	58.4
122.5°	240.9	240.2	235.7	221.0	204.0	181.0	149.3	122.7	99.0	69.5	53.9
125°	224.6	223.9	216.5	202.5	184.7	170.0	144.1	120.5	93.8	64.3	49.5
127.5°	211.3	210.6	204.7	190.7	180.3	159.6	136.0	113.8	87.9	59.1	45.8
130°	189.9	188.4	184.0	178.8	170.0	149.3	133.8	107.2	82.0	54.7	42.1
132.5°	175.1	175.1	177.4	173.7	158.9	141.1	126.4	101.2	76.9	50.2	39.2
135°	175.1	175.1	171.4	163.3	149.3	143.4	119.0	93.8	72.4	45.8	35.5
137.5°	164.8	164.1	160.4	152.2	144.8	136.0	110.1	87.2	67.2	42.1	32.5
140°	151.5	150.7	147.8	146.3	150.0	124.1	102.7	82.8	62.8	38.4	29.6
142.5°	148.5	149.3	158.1	155.9	133.0	115.3	95.3	76.9	58.4	34.7	27.3
145°	160.4	157.4	150.7	134.5	121.2	104.9	90.9	73.9	53.9	31.0	24.4
147.5°	133.0	132.3	128.6	123.4	111.6	100.5	83.5	68.0	48.8	27.3	22.2
150°	124.9	124.9	121.2	111.6	102.7	91.6	76.9	62.1	43.6	24.4	20.0
152.5°	108.6	107.9	105.7	104.2	95.3	81.3	70.9	55.4	38.4	20.7	17.7
155°	102.7	102.7	102.7	92.4	82.8	74.6	63.6	48.8	34.0	17.7	15.5
157.5°	87.9	86.5	85.0	80.5	75.4	66.5	54.7	42.1	29.6	14.8	13.3
160°	77.6	78.3	76.9	72.4	66.5	57.6	46.6	35.5	25.1	11.8	11.1
162.5°	68.0	67.2	66.5	62.8	56.2	48.0	38.4	28.8	20.7	9.6	9.6
165°	56.9	56.2	53.9	51.0	45.1	37.7	29.6	23.6	15.5	8.1	7.4
167.5°	43.6	43.6	42.1	38.4	34.0	27.3	21.4	17.0	10.3	6.7	5.9
170°	31.8	31.8	30.3	25.9	20.0	17.0	14.8	10.3	6.7	5.2	5.2
172.5°	12.6	13.3	12.6	12.6	11.1	8.9	7.4	5.9	3.7	3.7	3.7
175°	0.7	0.7	1.5	3.0	3.7	3.7	3.7	3.0	3.7	3.7	3.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4
2.5°	1134.3	1129.9	1120.3	1105.5	1094.4	1088.5	1082.6	1083.3	1079.6	1081.8
5°	1124.0	1109.2	1090.0	1073.0	1065.6	1064.1	1066.3	1070.8	1072.2	1072.2
7.5°	1112.9	1088.5	1067.8	1061.9	1065.6	1069.3	1070.0	1072.2	1069.3	1069.3
10°	1100.3	1065.6	1056.0	1059.7	1061.9	1051.5	1033.8	1024.2	1019.0	1015.3
12.5°	1083.3	1047.1	1050.1	1050.8	1027.9	999.1	974.0	959.2	950.3	950.3
15°	1064.9	1030.1	1038.2	1018.3	977.7	939.2	913.4	891.2	874.2	869.0
17.5°	1045.6	1014.6	1021.3	971.7	922.2	874.9	823.9	774.4	754.5	750.1
20°	1024.2	996.9	986.5	923.0	860.9	781.1	696.1	620.7	578.6	574.9
22.5°	999.8	974.7	940.7	867.5	780.3	657.7	538.7	454.5	417.5	405.7
25°	974.0	950.3	897.1	806.2	670.2	514.3	390.2	332.5	308.1	311.1
27.5°	945.9	918.5	849.8	730.1	540.2	384.3	300.8	265.3	251.2	249.8
30°	915.6	880.1	795.1	637.7	424.2	300.0	252.0	232.0	225.4	223.9
32.5°	881.6	838.0	732.3	529.1	334.0	251.2	225.4	218.0	215.8	215.0
35°	840.9	786.3	658.4	431.6	271.9	223.9	213.6	215.0	218.7	219.5
37.5°	798.1	730.8	580.8	346.6	234.3	209.1	210.6	226.1	241.6	243.9
40°	752.3	679.1	494.4	284.5	209.9	201.0	219.5	256.4	281.5	288.2
42.5°	719.8	618.5	416.8	239.4	195.1	199.5	241.6	294.8	319.2	321.5
45°	674.7	563.1	348.1	209.9	184.0	206.2	269.7	314.8	319.2	319.2
47.5°	628.9	506.2	290.4	188.4	176.6	219.5	290.4	300.8	276.4	274.2
50°	583.8	441.9	242.4	170.7	172.9	235.0	283.8	247.6	213.6	210.6
52.5°	540.2	386.5	206.9	156.7	171.4	243.9	251.2	192.1	161.1	161.1
55°	495.1	328.1	178.8	146.3	171.4	237.9	207.6	149.3	127.1	124.1
57°	452.2	289.7	161.1	138.2	171.4	222.4	168.5	124.1	107.9	106.4
57.5°	442.6	280.8	158.1	136.7	171.4	218.0	161.1	119.7	102.7	102.0
60°	402.7	235.7	140.4	128.6	170.0	187.7	128.6	97.5	85.7	85.0
62.5°	362.1	202.5	126.4	121.2	163.3	157.4	107.9	82.8	73.2	72.4
65°	328.1	171.4	114.5	114.5	153.7	128.6	89.4	70.9	62.1	61.3
67.5°	291.9	145.6	104.9	107.2	139.7	106.4	74.6	60.6	53.2	52.5
70°	247.6	124.9	96.1	99.8	124.1	88.7	62.8	51.0	45.1	44.3
72.5°	211.3	107.2	88.7	92.4	107.2	73.9	53.9	43.6	36.9	36.9
75°	165.5	92.4	81.3	84.2	90.9	60.6	45.1	36.2	30.3	29.6
77.5°	126.4	79.8	73.9	76.1	76.9	49.5	36.9	30.3	24.4	24.4
80°	90.2	68.7	68.0	68.0	63.6	41.4	31.8	24.4	20.0	19.2
82.5°	68.0	59.1	62.1	60.6	52.5	34.7	26.6	20.0	14.8	14.0
85°	53.9	51.7	56.2	53.9	42.9	29.6	22.2	14.8	10.3	9.6
87.5°	44.3	46.6	51.0	45.1	32.5	21.4	14.0	8.1	3.7	3.0
90°	40.6	43.6	45.8	37.7	25.9	15.5	8.9	3.7	0.7	0.0
92.5°	41.4	42.9	44.3	35.5	24.4	14.0	8.1	3.7	0.7	0.0
95°	43.6	43.6	42.9	34.7	23.6	14.0	8.1	3.7	0.7	0.0
97.5°	46.6	44.3	42.1	34.0	22.9	14.0	7.4	3.7	0.7	0.0
100°	49.5	45.1	42.1	33.3	22.9	13.3	7.4	3.7	0.7	0.0
102.5°	52.5	45.8	42.1	33.3	22.2	13.3	7.4	3.7	0.7	0.0
105°	54.7	45.8	41.4	33.3	22.2	13.3	7.4	3.7	0.7	0.0
107.5°	56.2	45.8	40.6	32.5	22.2	12.6	7.4	3.7	0.7	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	56.9	45.1	39.2	31.8	21.4	12.6	6.7	3.0	0.7	0.0
112.5°	56.2	44.3	37.7	30.3	20.7	11.8	6.7	3.0	0.7	0.0
115°	53.9	42.9	36.2	28.8	20.0	11.8	6.7	3.0	0.7	0.0
117.5°	51.7	40.6	34.7	27.3	19.2	11.1	5.9	3.0	0.7	0.0
120°	49.5	38.4	32.5	25.9	17.7	10.3	5.9	3.0	0.0	0.0
122.5°	46.6	36.9	31.0	24.4	17.0	10.3	5.2	2.2	0.0	0.0
125°	43.6	34.7	29.6	23.6	16.3	9.6	5.2	2.2	0.0	0.0
127.5°	40.6	32.5	27.3	22.2	15.5	8.9	5.2	2.2	0.0	0.0
130°	37.7	31.0	25.9	20.7	14.8	8.1	4.4	2.2	0.0	0.0
132.5°	34.7	28.8	23.6	19.2	13.3	8.1	4.4	2.2	0.0	0.0
135°	31.8	26.6	22.2	17.7	12.6	7.4	3.7	1.5	0.0	0.0
137.5°	29.6	25.1	20.7	17.0	11.8	6.7	3.7	1.5	0.0	0.0
140°	27.3	22.9	19.2	15.5	11.1	5.9	3.7	1.5	0.0	0.0
142.5°	25.1	21.4	17.7	14.0	9.6	5.9	3.0	1.5	0.0	0.0
145°	22.9	19.2	16.3	12.6	8.9	5.2	3.0	1.5	0.0	0.0
147.5°	20.7	17.7	14.8	11.8	7.4	4.4	2.2	0.7	0.0	0.0
150°	18.5	16.3	13.3	10.3	6.7	3.7	2.2	0.7	0.0	0.0
152.5°	17.0	14.0	11.8	8.9	5.9	3.7	1.5	0.7	0.0	0.0
155°	14.8	12.6	10.3	8.1	5.2	3.0	1.5	0.7	0.0	0.0
157.5°	12.6	11.1	8.9	6.7	4.4	2.2	0.7	0.7	0.0	0.0
160°	11.1	9.6	8.1	5.9	3.7	2.2	0.7	0.0	0.0	0.0
162.5°	8.9	8.1	6.7	4.4	3.0	1.5	0.7	0.0	0.0	0.0
165°	7.4	6.7	5.2	3.7	2.2	1.5	0.7	0.0	0.0	0.0
167.5°	5.9	5.2	4.4	3.0	2.2	0.7	0.7	0.0	0.0	0.0
170°	5.2	4.4	3.7	2.2	1.5	0.7	0.7	0.0	0.0	0.0
172.5°	3.7	3.7	3.0	1.5	0.7	0.7	0.0	0.0	0.0	0.0
175°	3.7	3.0	1.5	1.5	0.7	0.7	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)