

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-W**

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

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8703.8 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 0.29' x H: 0.38')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U5 - G5

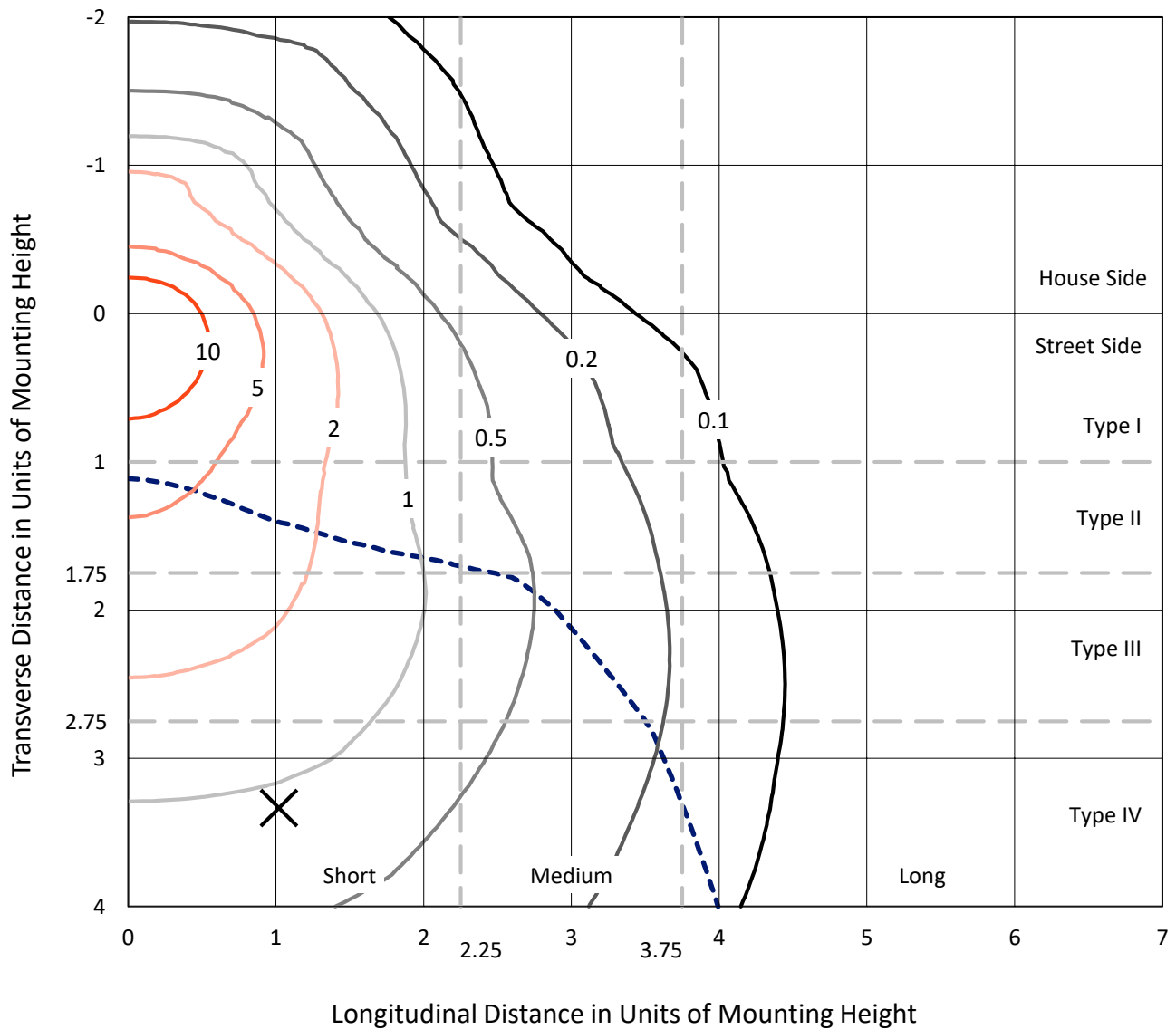
Input Watts (W): 72  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

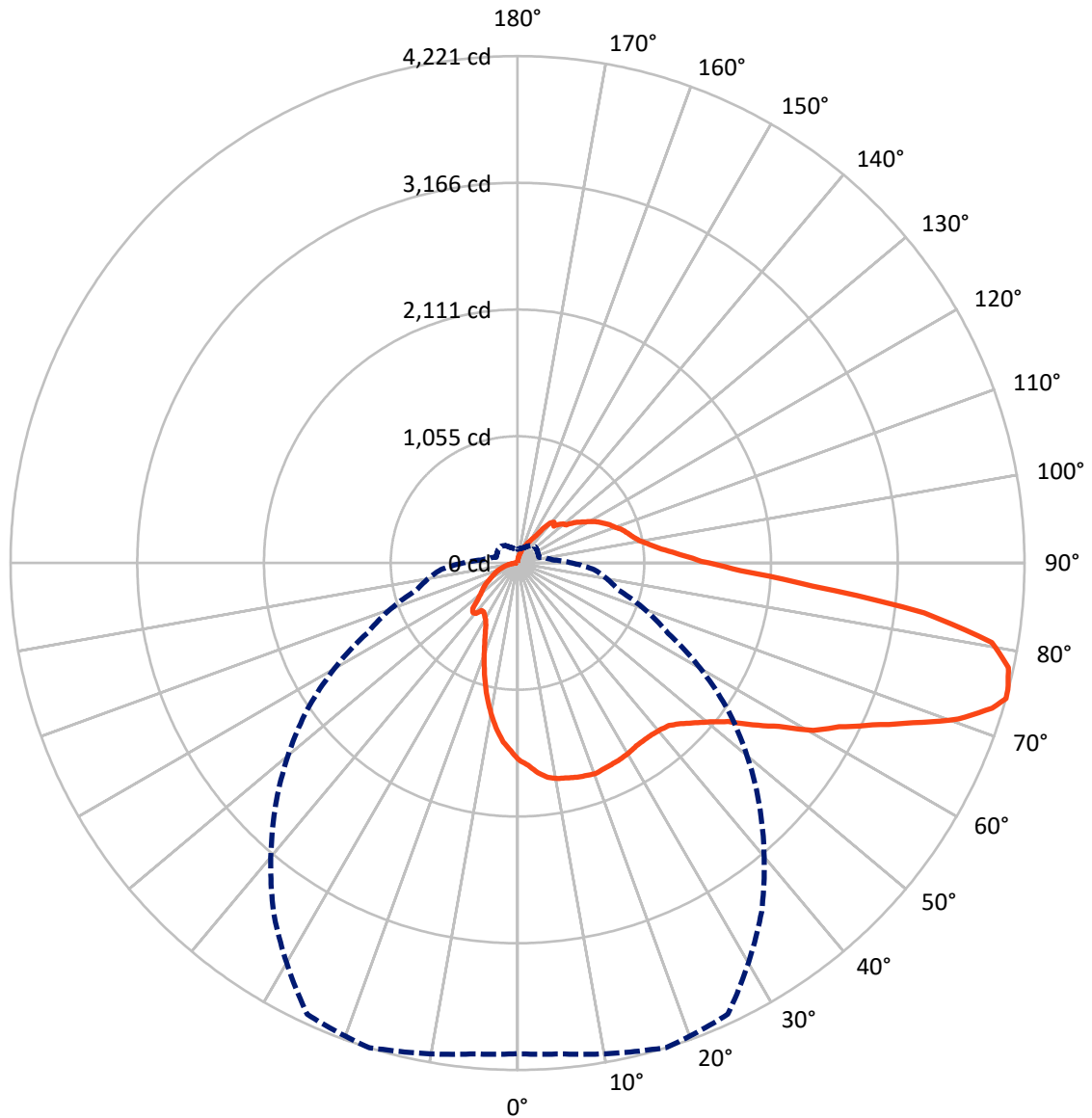
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.6 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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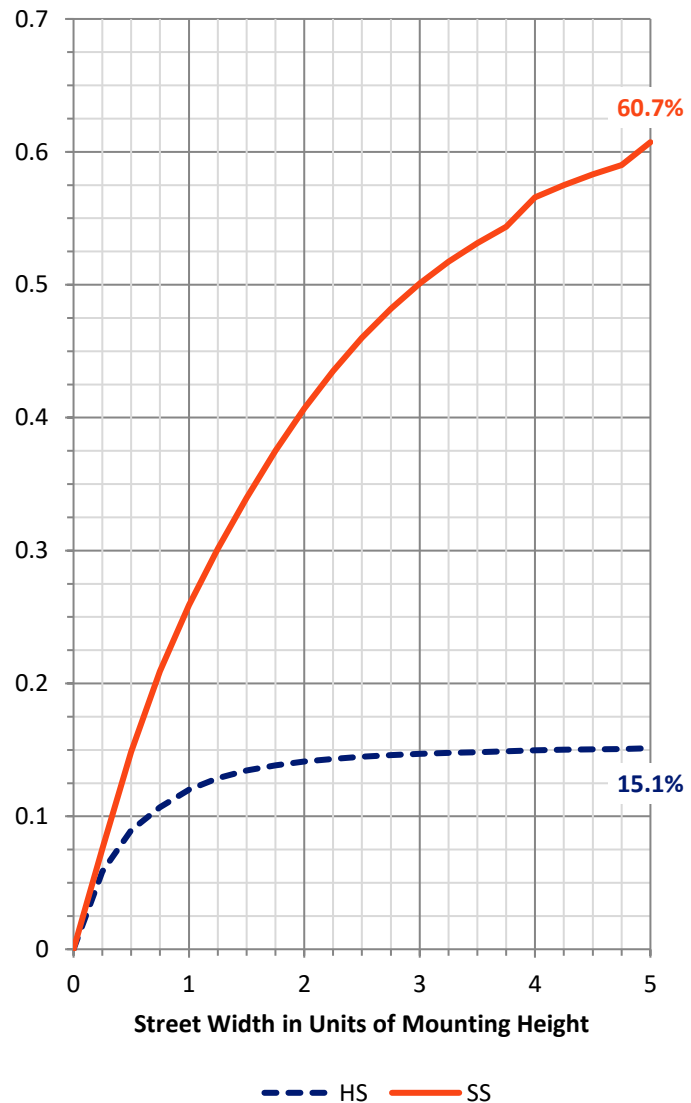
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1340.6	110.3	1450.9
	% Fixture	15.4	1.3	16.7
<b>Street Side</b>	Lumens	5851.9	1401.0	7252.9
	% Fixture	67.2	16.1	83.3
<b>Total</b>	Lumens	7192.5	1511.3	8703.8
	% Fixture	82.6	17.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.3	1.8
10°-20°	424.7	4.9
20°-30°	605.2	7.0
30°-40°	722.8	8.3
40°-50°	831.2	9.5
50°-60°	957.8	11.0
60°-70°	1199.8	13.8
70°-80°	1432.2	16.5
80°-90°	864.4	9.9
90°-100°	461.5	5.3
100°-110°	349.1	4.0
110°-120°	272.4	3.1
120°-130°	188.5	2.2
130°-140°	128.9	1.5
140°-150°	71.2	0.8
150°-160°	29.6	0.3
160°-170°	9.2	0.1
170°-180°	0.9	0.0
0°-90°	7192.5	82.6
0°-180°	8703.8	100.0

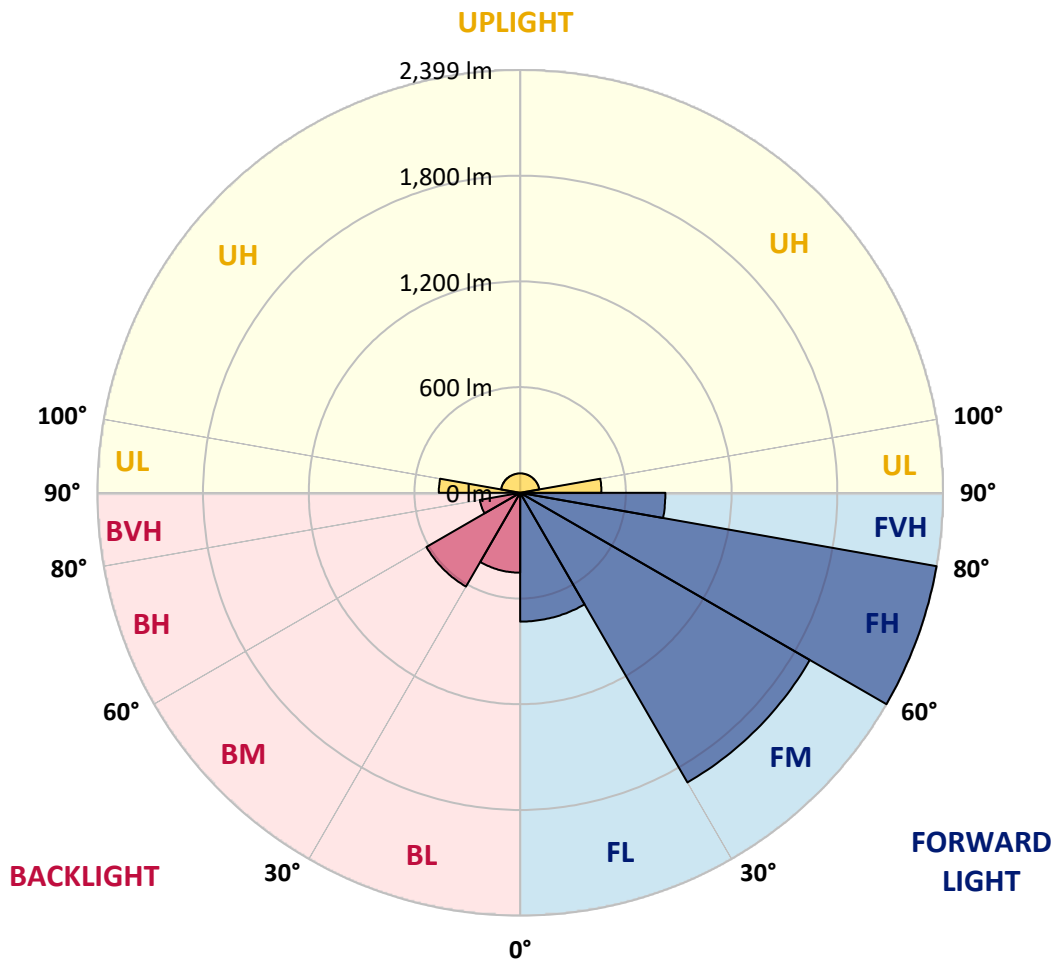


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	731.0	8.4			
FM	(30°-60°)	1897.6	21.8			
FH	(60°-80°)	2399.3	27.6			G2/5000
FVH	(80°-90°)	824.0	9.5			G5
BL	(0°-30°)	453.3	5.2	B1/500		
BM	(30°-60°)	614.2	7.1	B1/1000		
BH	(60°-80°)	232.7	2.7	B1/500		G1/500
BVH	(80°-90°)	40.5	0.5			G1/100
UL	(90°-100°)	461.5	5.3		U3/500	
UH	(100°-180°)	110.3	1.3		U3/500	

**BUG Rating: B1-U5-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	17°	25°	35°	45°	55°	65°	75°	85°
0°	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6
2.5°	1685.6	1683.2	1685.0	1685.6	1685.6	1682.0	1676.7	1671.3	1668.3	1658.8	1651.1
5°	1759.4	1753.4	1754.0	1754.0	1748.1	1735.6	1720.7	1705.8	1692.1	1671.3	1655.8
7.5°	1804.6	1804.0	1801.6	1802.2	1794.5	1780.8	1762.3	1739.1	1707.6	1680.8	1651.7
10°	1826.6	1826.0	1824.8	1825.4	1818.9	1803.4	1782.0	1755.8	1720.1	1677.3	1636.8
12.5°	1840.3	1841.5	1837.3	1836.1	1830.2	1816.5	1799.2	1766.5	1729.6	1671.3	1620.1
15°	1856.3	1856.9	1851.0	1851.0	1845.0	1828.4	1804.0	1778.4	1732.6	1670.1	1604.7
17.5°	1870.0	1871.2	1860.5	1860.5	1848.0	1827.2	1804.0	1773.6	1727.2	1658.2	1580.9
20°	1877.8	1877.8	1870.0	1869.4	1850.4	1821.2	1789.1	1753.4	1710.0	1635.0	1546.4
22.5°	1864.7	1865.3	1857.5	1856.9	1844.4	1815.3	1771.3	1732.6	1686.8	1605.3	1504.1
25°	1861.1	1860.5	1850.4	1849.8	1831.9	1807.6	1760.6	1704.0	1654.6	1573.7	1463.1
27.5°	1855.2	1856.3	1845.6	1843.8	1825.4	1789.7	1748.1	1680.8	1619.5	1541.0	1425.6
30°	1843.3	1843.8	1833.7	1831.4	1808.2	1772.5	1718.3	1651.7	1585.6	1502.9	1379.8
32.5°	1836.1	1836.7	1819.5	1815.9	1790.9	1747.5	1685.6	1623.7	1542.8	1461.9	1333.9
35°	1838.5	1836.1	1817.1	1812.9	1776.6	1726.6	1660.0	1591.0	1508.3	1426.2	1288.7
37.5°	1852.8	1850.4	1821.2	1814.7	1773.6	1701.1	1632.0	1557.7	1471.4	1395.8	1244.1
40°	1865.3	1861.7	1834.9	1827.2	1779.6	1693.9	1605.9	1530.9	1452.4	1354.2	1210.2
42.5°	1914.7	1909.9	1860.5	1848.6	1784.9	1685.0	1577.9	1502.3	1421.4	1325.0	1165.6
45°	1997.4	1988.4	1924.2	1907.5	1811.1	1677.8	1566.6	1484.5	1395.8	1271.5	1123.9
47.5°	2086.0	2078.9	2008.7	1988.4	1871.8	1688.6	1558.3	1472.6	1360.1	1250.7	1087.6
50°	2186.0	2178.2	2103.3	2078.9	1945.6	1721.3	1564.2	1452.4	1326.2	1195.3	1031.1
52.5°	2350.2	2332.9	2224.6	2194.3	2040.8	1780.8	1570.8	1447.6	1303.6	1159.0	1001.4
55°	2536.4	2523.3	2412.1	2377.5	2182.4	1864.1	1585.0	1438.7	1279.2	1126.3	949.0
57.5°	2758.9	2742.3	2600.1	2567.3	2360.3	1972.4	1640.4	1415.5	1266.1	1085.2	906.2
60°	2992.2	2974.9	2863.6	2829.1	2604.8	2126.5	1738.5	1413.7	1255.4	1054.9	860.3
62.5°	3175.4	3157.0	3026.7	3004.7	2830.9	2370.4	1864.1	1447.6	1228.0	1026.9	816.9
65°	3436.0	3411.0	3281.3	3249.2	3042.1	2606.0	2053.3	1521.4	1195.3	1012.7	772.3
67.5°	3691.3	3680.6	3572.9	3552.0	3385.4	2939.2	2302.0	1655.8	1177.5	1000.8	725.9
70°	3946.5	3938.8	3885.2	3893.0	3807.3	3339.0	2669.1	1887.9	1213.8	996.6	689.0
72.5°	4047.7	4048.9	4101.8	4132.2	4087.5	3555.0	2876.1	2175.3	1320.9	922.2	660.4
74°	4085.7	4103.0	4197.6	4221.4	4145.2	3543.7	2847.6	2141.3	1381.5	869.3	642.6
75°	4108.9	4130.4	4202.4	4217.2	4112.5	3477.1	2793.4	2071.1	1386.3	836.5	630.1
77.5°	4138.7	4155.4	4190.5	4178.6	3918.6	3167.7	2526.3	1896.8	1282.2	765.7	596.8
80°	4076.8	4092.3	4073.8	4004.8	3564.5	2772.6	2099.1	1527.9	1103.1	662.8	503.4
82.5°	3783.5	3773.4	3558.0	3412.2	2852.9	2099.1	1394.0	1088.8	901.4	598.0	348.1
85°	3125.4	3069.5	2595.3	2463.2	2062.8	1510.7	1168.5	962.1	803.2	578.3	239.8
87.5°	2193.7	2150.9	1923.0	1856.9	1620.7	1281.0	1049.5	883.0	725.9	530.1	155.9
90°	1751.0	1730.2	1573.7	1530.9	1391.7	1149.5	950.8	796.1	647.3	449.2	126.7
92.5°	1502.3	1486.3	1375.6	1354.8	1245.9	1053.7	882.4	733.6	571.8	364.1	114.8
95°	1308.4	1295.3	1208.4	1205.4	1138.2	984.1	831.2	692.6	508.1	292.7	116.0
97.5°	1161.4	1151.9	1103.7	1107.9	1058.5	921.6	771.7	658.6	447.4	246.3	122.6
100°	1062.0	1055.5	1017.4	1029.3	992.4	868.7	734.8	605.7	404.6	214.2	131.5
102.5°	999.0	994.2	966.8	982.3	941.9	834.2	703.9	562.3	365.9	213.6	142.8
105°	946.0	943.6	929.4	945.4	921.6	797.9	667.0	520.0	338.5	219.0	152.3
107.5°	911.5	910.9	896.6	908.5	865.1	758.0	620.6	489.7	330.8	224.3	158.3

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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	17°	25°	35°	45°	55°	65°	75°	85°
110°	845.5	846.7	849.6	859.2	826.4	717.0	585.5	456.4	330.2	226.1	158.9
112.5°	819.3	818.1	818.1	823.5	776.5	674.1	568.8	432.0	314.7	225.5	155.3
115°	782.4	782.4	780.0	779.4	729.4	630.1	539.6	415.9	302.8	219.5	148.7
117.5°	741.9	742.5	732.4	733.0	679.5	603.3	495.0	400.4	290.4	208.8	139.8
120°	688.4	686.6	678.3	677.1	633.7	559.9	454.0	358.2	270.7	200.5	129.7
122.5°	634.8	635.4	626.5	625.3	587.2	503.4	438.5	335.6	259.4	189.2	120.8
125°	584.9	585.5	582.5	579.5	530.1	477.2	395.1	318.3	245.7	178.5	111.9
127.5°	542.0	543.8	521.8	515.3	495.0	458.7	363.5	290.9	234.4	165.4	102.3
130°	496.2	496.8	500.4	502.2	482.5	406.4	354.0	283.2	223.7	153.5	93.4
132.5°	493.2	492.6	479.6	471.8	431.4	387.3	317.1	267.7	208.8	144.0	85.1
135°	451.0	448.6	434.3	430.8	411.1	373.1	324.3	266.6	205.3	135.1	77.3
137.5°	456.4	454.6	456.4	456.9	430.8	374.2	330.2	266.6	196.3	124.4	70.2
140°	458.1	457.5	436.7	432.0	409.9	383.2	317.1	249.3	176.7	109.5	63.1
142.5°	370.7	373.6	368.9	368.3	363.5	303.4	268.3	203.5	148.2	95.8	57.1
145°	307.6	309.4	288.6	282.0	264.8	255.2	215.4	170.2	127.9	85.7	51.2
147.5°	230.9	232.0	236.2	238.6	236.2	204.1	176.1	149.9	110.7	77.3	45.2
150°	215.4	215.4	204.1	205.3	194.0	178.5	161.2	138.6	101.1	69.6	39.9
152.5°	182.7	182.7	186.2	186.8	171.9	160.6	144.0	119.0	91.6	62.5	35.1
155°	158.9	160.6	156.5	156.5	157.7	142.2	126.1	101.7	80.9	55.3	32.1
157.5°	145.8	148.2	140.4	139.8	136.3	124.9	104.7	89.2	68.4	48.2	30.3
160°	127.9	129.1	123.8	122.6	112.5	100.6	87.5	74.4	57.7	41.6	27.4
162.5°	98.2	100.0	95.2	94.6	88.7	82.7	73.2	60.1	47.0	34.5	23.8
165°	80.3	80.9	79.1	79.1	76.2	65.4	57.1	48.2	37.5	26.8	19.6
167.5°	60.7	61.9	60.1	60.7	57.7	51.8	44.6	36.3	27.4	19.6	15.5
170°	47.6	48.2	47.0	47.0	44.0	38.1	30.3	23.8	18.4	12.5	11.9
172.5°	33.3	33.9	30.9	31.5	26.2	22.0	17.8	14.3	11.3	9.5	9.5
175°	4.2	5.4	10.1	10.1	11.3	10.1	9.5	7.7	7.1	7.7	7.7
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°	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6
2.5°	1646.9	1642.2	1629.7	1617.8	1601.7	1588.0	1576.1	1566.6	1565.4	1559.4	1558.9
5°	1646.9	1638.0	1613.0	1585.6	1560.0	1538.6	1517.8	1499.9	1494.0	1485.1	1483.3
7.5°	1639.2	1624.3	1588.0	1549.9	1508.3	1472.0	1441.0	1412.5	1400.6	1388.1	1384.5
10°	1621.3	1600.5	1550.5	1498.2	1443.4	1391.7	1347.0	1305.4	1286.4	1273.9	1269.1
12.5°	1601.7	1574.9	1513.6	1442.8	1372.0	1304.8	1250.7	1206.0	1174.5	1154.9	1148.9
15°	1580.9	1547.0	1469.6	1385.7	1293.5	1221.5	1147.1	1090.0	1054.3	1032.3	1025.7
17.5°	1551.7	1511.3	1420.2	1317.9	1213.8	1116.2	1035.3	973.4	933.5	910.3	903.2
20°	1511.3	1462.5	1357.2	1239.3	1116.8	1008.5	923.4	860.9	821.1	796.7	788.4
22.5°	1467.8	1411.3	1291.1	1159.6	1024.6	909.7	820.5	759.8	720.5	698.5	700.3
25°	1422.0	1360.7	1227.4	1078.1	927.0	816.3	730.0	676.5	636.6	618.8	618.8
27.5°	1376.2	1308.4	1162.0	996.0	839.5	732.4	653.9	605.1	573.0	561.7	561.7
30°	1325.0	1250.7	1088.2	910.9	762.8	659.2	587.2	551.0	537.3	531.3	531.3
32.5°	1268.5	1194.1	1022.2	830.0	690.8	594.4	534.3	520.0	512.9	511.1	511.7
35°	1220.3	1138.2	953.2	755.0	627.1	539.1	502.8	498.6	495.6	494.4	494.4
37.5°	1175.7	1087.6	883.5	691.4	571.2	496.2	481.3	482.5	498.6	527.2	529.5
40°	1126.9	1038.2	815.7	630.7	521.8	465.9	464.7	482.5	560.5	587.2	586.7
42.5°	1085.2	985.9	753.2	579.5	478.4	444.5	448.0	533.7	560.5	554.5	555.7
45°	1031.7	940.7	698.5	526.0	440.3	425.4	456.4	534.9	530.1	506.9	506.9
47.5°	994.8	880.0	645.6	480.2	410.5	408.2	496.2	501.6	445.6	409.9	409.3
50°	939.5	839.5	587.8	437.3	388.5	396.9	470.0	445.6	399.2	376.0	375.4
52.5°	892.5	776.5	531.9	401.0	370.1	395.1	434.9	401.0	363.5	351.0	351.0
55°	848.4	730.6	480.7	368.3	352.2	405.8	382.6	366.5	336.8	317.7	316.5
57.5°	785.4	652.7	426.0	340.3	333.8	375.4	349.3	332.0	301.1	277.9	276.1
60°	737.2	593.2	373.1	316.5	314.7	337.4	330.2	298.1	261.8	245.7	244.5
62.5°	679.5	548.0	329.0	293.3	292.1	295.7	305.2	264.2	234.4	221.3	220.1
65°	627.1	488.5	294.5	270.1	270.7	264.2	280.2	233.2	210.0	196.9	196.9
67.5°	574.2	432.0	262.4	245.1	257.6	246.3	256.4	207.6	188.6	176.1	174.9
70°	524.8	377.2	230.9	223.1	235.6	226.7	224.9	182.7	165.4	153.5	152.3
72.5°	480.2	324.9	201.7	200.5	210.0	208.8	192.8	158.3	141.6	130.9	128.5
74°	452.2	293.9	184.4	187.4	196.3	197.5	175.5	143.4	126.7	117.8	114.8
75°	434.9	270.1	172.5	178.5	188.0	189.2	163.6	132.7	117.2	108.3	105.3
77.5°	380.2	207.1	146.4	163.0	171.4	167.8	136.8	107.1	94.6	85.7	83.3
80°	298.7	147.6	122.6	147.6	156.5	141.0	107.7	83.9	70.8	63.7	62.5
82.5°	209.4	102.9	100.0	118.4	129.7	113.6	82.1	61.9	51.2	45.8	44.6
85°	129.1	75.6	81.5	94.6	100.0	83.9	60.7	48.2	37.5	31.5	30.3
87.5°	82.1	62.5	66.6	82.7	76.2	60.1	46.4	35.1	26.2	20.2	19.6
90°	66.6	61.3	61.9	79.7	62.5	47.0	34.5	23.8	11.9	5.9	5.4
92.5°	68.4	66.6	67.8	83.9	61.3	44.6	32.1	22.0	10.1	4.2	3.6
95°	85.7	77.3	77.9	82.7	63.1	45.2	32.1	22.0	10.1	3.6	3.0
97.5°	100.6	89.8	83.9	79.7	63.7	45.8	31.5	20.8	9.5	3.0	2.4
100°	110.7	100.0	83.9	77.3	63.1	45.2	30.9	19.6	8.9	2.4	2.4
102.5°	120.2	107.7	86.3	76.2	62.5	44.0	29.7	18.4	8.3	2.4	1.8
105°	127.9	113.0	89.8	75.0	61.9	42.8	28.6	17.3	7.7	1.8	1.2
107.5°	131.5	114.8	91.6	73.2	61.9	41.6	27.4	16.1	6.5	1.2	0.6



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	130.9	114.2	90.4	73.2	62.5	41.1	26.2	14.9	5.9	0.6	0.0
112.5°	127.3	111.3	87.5	73.8	60.1	41.6	25.0	14.3	5.4	0.6	0.0
115°	122.0	107.1	83.9	73.8	57.1	41.1	23.8	13.1	4.2	0.0	0.0
117.5°	114.8	101.7	80.3	72.6	54.1	39.3	22.6	11.9	3.6	0.0	0.0
120°	107.7	95.8	76.8	70.8	52.4	36.9	22.0	11.3	3.0	0.0	0.0
122.5°	100.0	89.8	73.2	67.8	51.2	33.9	20.2	10.1	2.4	0.0	0.0
125°	92.2	83.3	69.0	66.0	48.2	31.5	18.4	8.9	1.8	0.0	0.0
127.5°	85.1	76.8	64.3	64.3	44.0	30.3	16.7	7.7	1.8	0.0	0.0
130°	77.3	70.2	60.1	61.3	40.5	28.6	15.5	7.1	1.2	0.0	0.0
132.5°	70.2	63.7	55.9	57.1	36.9	27.4	14.3	5.9	1.2	0.0	0.0
135°	63.7	58.9	51.8	52.4	33.9	26.2	12.5	5.4	1.2	0.0	0.0
137.5°	57.7	54.1	48.8	47.0	30.9	24.4	11.3	4.2	0.6	0.0	0.0
140°	53.5	50.0	47.6	42.2	28.0	22.6	10.1	3.6	0.6	0.0	0.0
142.5°	48.8	46.4	47.0	37.5	25.6	20.2	8.9	3.0	0.6	0.0	0.0
145°	43.4	42.2	44.6	32.1	23.2	18.4	7.7	3.0	0.6	0.0	0.0
147.5°	39.9	39.3	42.8	27.4	20.8	16.7	7.1	2.4	0.6	0.0	0.0
150°	36.9	36.9	38.7	23.2	18.4	14.3	5.9	2.4	0.0	0.0	0.0
152.5°	33.9	35.1	33.9	20.2	16.1	12.5	4.8	2.4	0.0	0.0	0.0
155°	31.5	32.1	29.2	17.8	13.7	10.1	4.8	1.8	0.0	0.0	0.0
157.5°	30.3	30.3	25.6	15.5	11.3	7.7	4.2	1.8	0.0	0.0	0.0
160°	28.0	28.0	22.0	13.7	9.5	6.5	3.6	1.8	0.0	0.0	0.0
162.5°	24.4	23.8	18.4	11.9	8.3	5.4	3.6	1.8	0.0	0.0	0.0
165°	19.6	18.4	14.3	10.1	6.5	4.8	3.0	1.8	0.0	0.0	0.0
167.5°	14.9	14.3	10.7	7.7	5.4	4.2	3.0	1.8	0.0	0.0	0.0
170°	11.3	10.7	8.3	5.9	4.8	4.2	3.0	1.8	0.0	0.0	0.0
172.5°	8.9	8.9	7.1	5.4	4.8	4.2	3.0	1.2	0.0	0.0	0.0
175°	7.7	7.1	5.9	5.4	4.8	3.0	2.4	1.2	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)