

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: P232420

Luminaire Tested: **AXCL6ARL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232420
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: AXCL6ARL
Description: AXCENT RL WALLPACK
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7809 lumens
Efficiency: N/A
Efficacy: 138.4 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 - U4 - G4

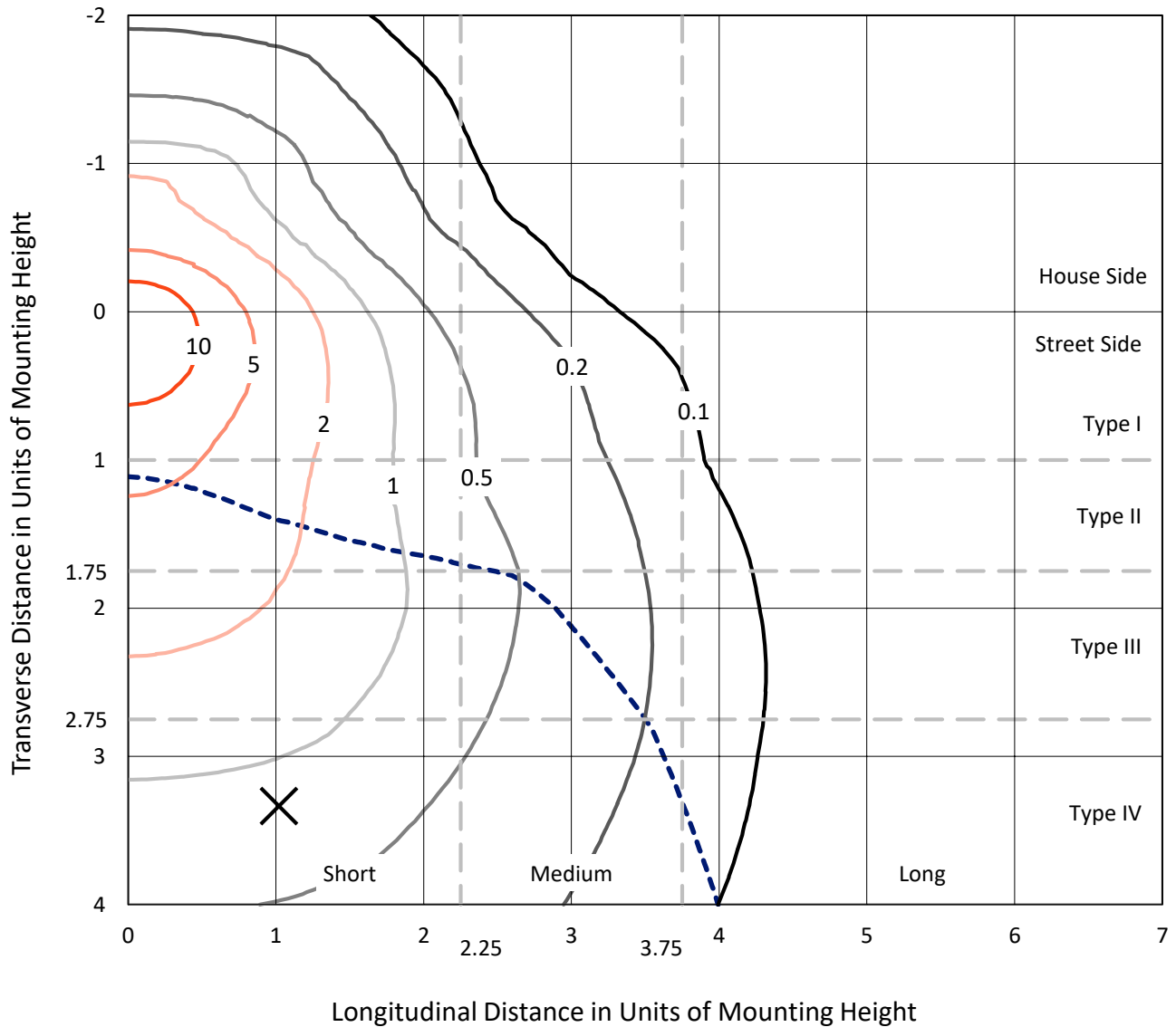
Input Watts (W): 56.43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

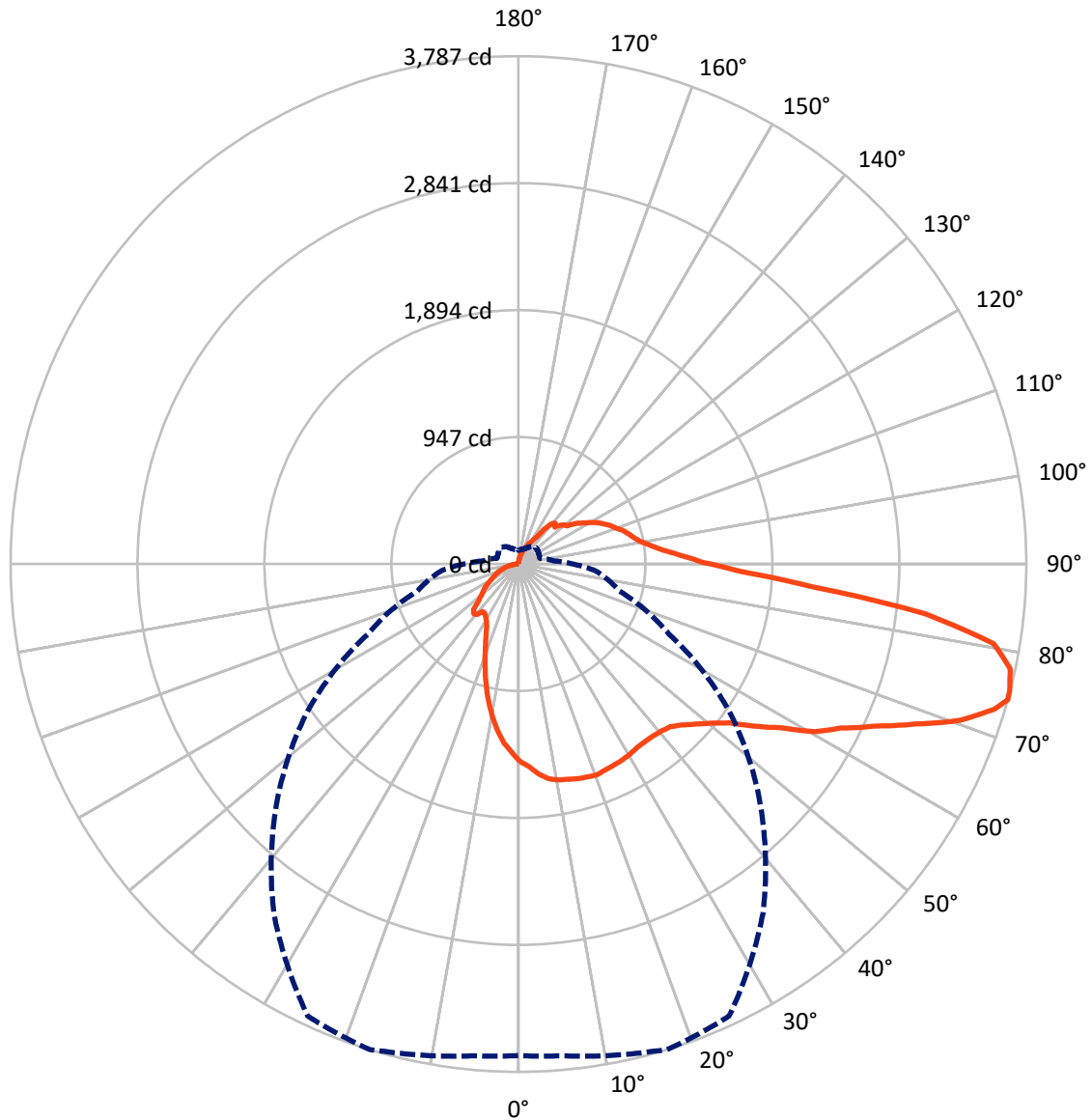
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.8 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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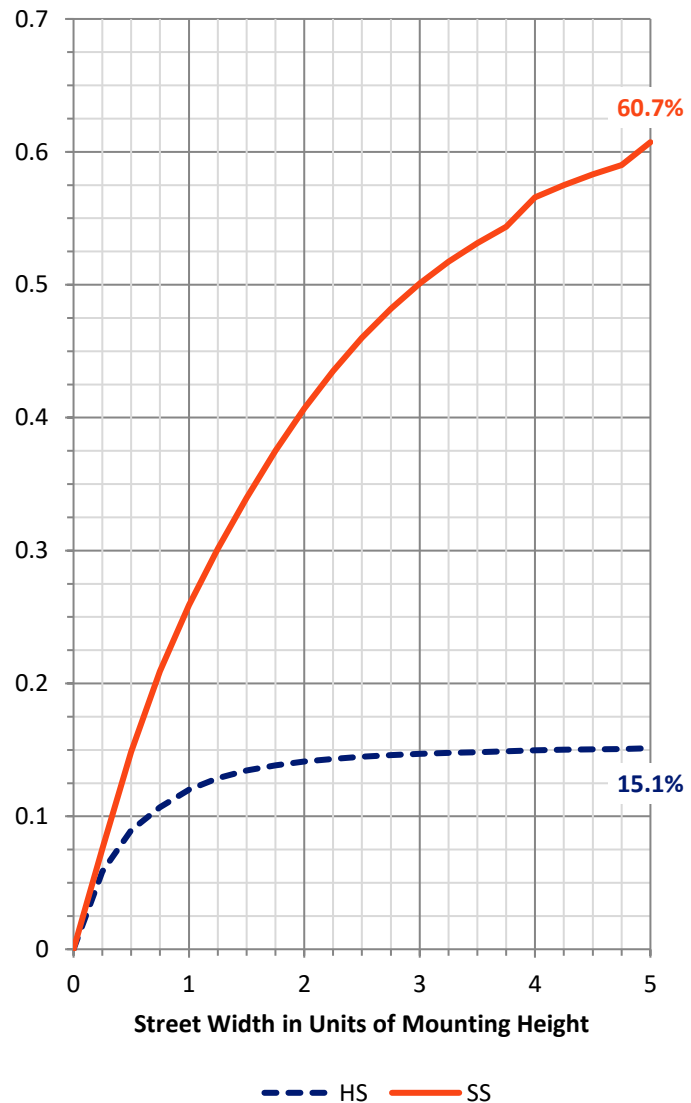
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1202.8	98.9	1301.7
	% Fixture	15.4	1.3	16.7
Street Side	Lumens	5250.3	1257.0	6507.3
	% Fixture	67.2	16.1	83.3
Total	Lumens	6453.1	1355.9	7809.0
	% Fixture	82.6	17.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	1.8
10°-20°	381.0	4.9
20°-30°	543.0	7.0
30°-40°	648.5	8.3
40°-50°	745.7	9.5
50°-60°	859.3	11.0
60°-70°	1076.5	13.8
70°-80°	1284.9	16.5
80°-90°	775.6	9.9
90°-100°	414.1	5.3
100°-110°	313.2	4.0
110°-120°	244.3	3.1
120°-130°	169.1	2.2
130°-140°	115.6	1.5
140°-150°	63.9	0.8
150°-160°	26.5	0.3
160°-170°	8.2	0.1
170°-180°	0.8	0.0
0°-90°	6453.1	82.6
0°-180°	7809.0	100.0

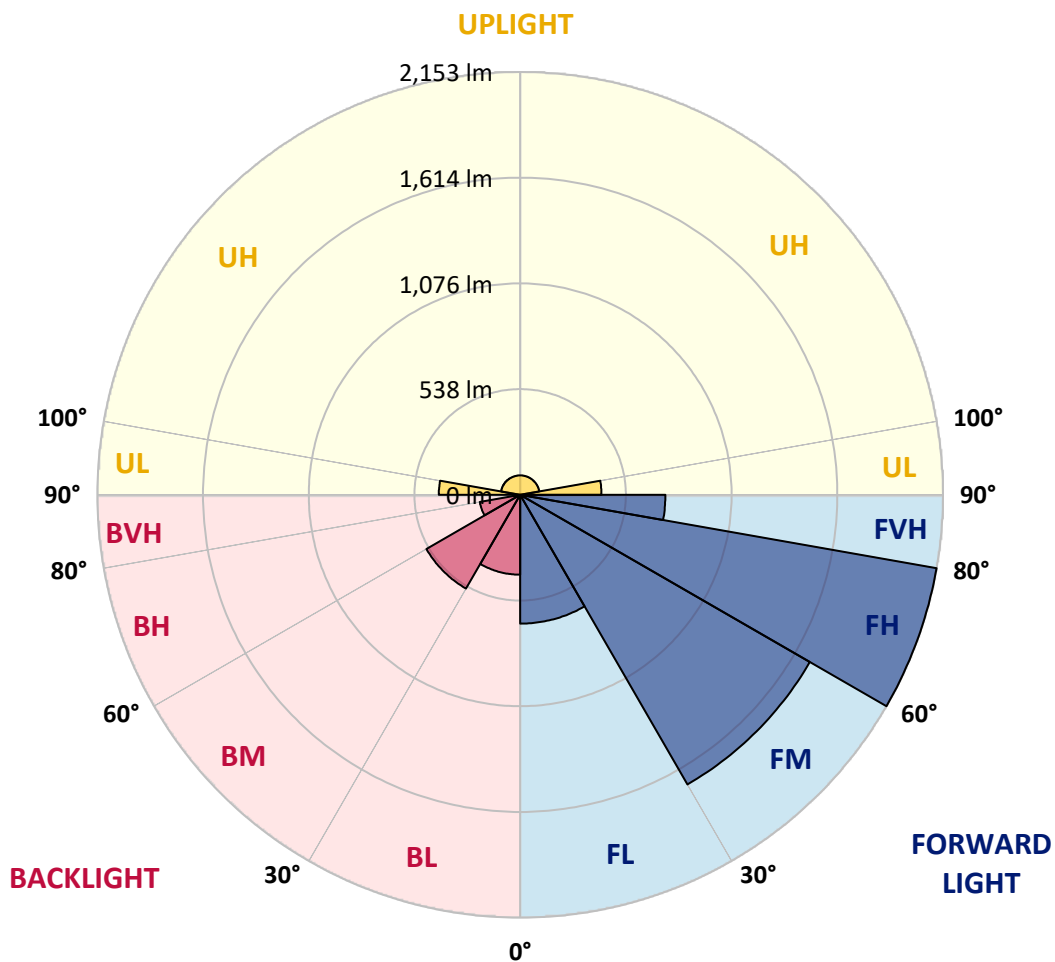


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	655.8	8.4			
FM (30°-60°)	1702.5	21.8			
FH (60°-80°)	2152.7	27.6			G2/5000
FVH (80°-90°)	739.3	9.5			G4/750
BL (0°-30°)	406.7	5.2	B1/500		
BM (30°-60°)	551.0	7.1	B1/1000		
BH (60°-80°)	208.8	2.7	B1/500		G1/500
BVH (80°-90°)	36.3	0.5			G1/100
UL (90°-100°)	414.1	5.3		U3/500	
UH (100°-180°)	98.9	1.3		U3/500	

BUG Rating: B1-U4-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	17°	25°	35°	45°	55°	65°	75°	85°
0°	1472.8	1472.8	1472.8	1472.8	1472.8	1472.8	1472.8	1472.8	1472.8	1472.8	1472.8
2.5°	1512.3	1510.2	1511.8	1512.3	1512.3	1509.1	1504.3	1499.5	1496.8	1488.3	1481.3
5°	1578.5	1573.1	1573.7	1573.7	1568.3	1557.1	1543.8	1530.4	1518.2	1499.5	1485.6
7.5°	1619.1	1618.5	1616.4	1616.9	1610.0	1597.7	1581.2	1560.3	1532.0	1508.0	1481.9
10°	1638.8	1638.3	1637.2	1637.7	1631.9	1618.0	1598.8	1575.3	1543.3	1504.8	1468.5
12.5°	1651.1	1652.2	1648.4	1647.3	1642.0	1629.7	1614.3	1584.9	1551.8	1499.5	1453.6
15°	1665.5	1666.0	1660.7	1660.7	1655.4	1640.4	1618.5	1595.6	1554.5	1498.4	1439.7
17.5°	1677.8	1678.8	1669.2	1669.2	1658.0	1639.3	1618.5	1591.3	1549.7	1487.7	1418.3
20°	1684.7	1684.7	1677.8	1677.2	1660.2	1634.0	1605.2	1573.1	1534.2	1466.9	1387.4
22.5°	1673.0	1673.5	1666.6	1666.0	1654.8	1628.7	1589.2	1554.5	1513.4	1440.2	1349.5
25°	1669.8	1669.2	1660.2	1659.6	1643.6	1621.7	1579.6	1528.8	1484.5	1411.9	1312.6
27.5°	1664.4	1665.5	1655.9	1654.3	1637.7	1605.7	1568.3	1508.0	1453.0	1382.6	1279.0
30°	1653.8	1654.3	1645.2	1643.1	1622.3	1590.2	1541.7	1481.9	1422.6	1348.4	1237.9
32.5°	1647.3	1647.9	1632.4	1629.2	1606.8	1567.8	1512.3	1456.8	1384.2	1311.6	1196.8
35°	1649.5	1647.3	1630.3	1626.5	1594.0	1549.1	1489.3	1427.4	1353.2	1279.5	1156.2
37.5°	1662.3	1660.2	1634.0	1628.1	1591.3	1526.2	1464.2	1397.5	1320.1	1252.3	1116.2
40°	1673.5	1670.3	1646.3	1639.3	1596.6	1519.8	1440.8	1373.5	1303.0	1215.0	1085.8
42.5°	1717.8	1713.5	1669.2	1658.6	1601.4	1511.8	1415.7	1347.9	1275.3	1188.8	1045.7
45°	1792.0	1784.0	1726.4	1711.4	1624.9	1505.4	1405.5	1331.9	1252.3	1140.8	1008.4
47.5°	1871.5	1865.1	1802.2	1784.0	1679.4	1515.0	1398.1	1321.2	1220.3	1122.1	975.8
50°	1961.2	1954.3	1887.0	1865.1	1745.6	1544.3	1403.4	1303.0	1189.9	1072.4	925.1
52.5°	2108.6	2093.1	1995.9	1968.7	1831.0	1597.7	1409.3	1298.8	1169.6	1039.9	898.4
55°	2275.6	2263.9	2164.1	2133.1	1958.0	1672.4	1422.1	1290.8	1147.7	1010.5	851.4
57.5°	2475.3	2460.3	2332.8	2303.4	2117.6	1769.6	1471.7	1269.9	1136.0	973.7	813.0
60°	2684.5	2669.1	2569.2	2538.3	2337.0	1907.8	1559.8	1268.3	1126.3	946.5	771.9
62.5°	2849.0	2832.4	2715.5	2695.8	2539.9	2126.7	1672.4	1298.8	1101.8	921.4	732.9
65°	3082.8	3060.3	2944.0	2915.2	2729.4	2338.1	1842.2	1365.0	1072.4	908.5	692.9
67.5°	3311.8	3302.2	3205.5	3186.9	3037.4	2637.0	2065.3	1485.6	1056.4	897.9	651.3
70°	3540.8	3533.8	3485.8	3492.7	3415.9	2995.8	2394.7	1693.8	1089.0	894.1	618.2
72.5°	3631.5	3632.6	3680.1	3707.3	3667.3	3189.5	2580.5	1951.6	1185.1	827.4	592.5
74°	3665.7	3681.2	3766.1	3787.4	3719.1	3179.4	2554.8	1921.2	1239.5	779.9	576.5
75°	3686.5	3705.7	3770.3	3783.7	3689.7	3119.6	2506.3	1858.2	1243.8	750.5	565.3
77.5°	3713.2	3728.1	3759.6	3749.0	3515.7	2842.0	2266.6	1701.8	1150.4	687.0	535.4
80°	3657.7	3671.6	3655.0	3593.1	3198.1	2487.6	1883.3	1370.8	989.7	594.7	451.6
82.5°	3394.5	3385.4	3192.2	3061.4	2559.6	1883.3	1250.7	976.9	808.7	536.5	312.3
85°	2804.1	2753.9	2328.5	2210.0	1850.7	1355.4	1048.4	863.2	720.6	518.9	215.1
87.5°	1968.2	1929.7	1725.3	1666.0	1454.1	1149.3	941.6	792.2	651.3	475.6	139.9
90°	1571.0	1552.3	1411.9	1373.5	1248.6	1031.3	853.0	714.2	580.8	403.0	113.7
92.5°	1347.9	1333.5	1234.2	1215.5	1117.8	945.4	791.6	658.2	513.0	326.7	103.0
95°	1173.9	1162.1	1084.2	1081.5	1021.2	882.9	745.7	621.4	455.9	262.6	104.1
97.5°	1042.0	1033.5	990.2	994.0	949.7	826.9	692.4	590.9	401.4	221.0	110.0
100°	952.9	947.0	912.8	923.5	890.4	779.4	659.3	543.4	363.0	192.2	118.0
102.5°	896.3	892.0	867.4	881.3	845.0	748.4	631.5	504.5	328.3	191.6	128.1
105°	848.8	846.6	833.8	848.2	826.9	715.8	598.4	466.6	303.7	196.4	136.7
107.5°	817.8	817.3	804.5	815.1	776.2	680.1	556.8	439.3	296.8	201.2	142.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	17°	25°	35°	45°	55°	65°	75°	85°
110°	758.5	759.6	762.3	770.8	741.5	643.2	525.3	409.4	296.3	202.8	142.5
112.5°	735.1	734.0	734.0	738.8	696.6	604.8	510.3	387.5	282.4	202.3	139.3
115°	702.0	702.0	699.8	699.3	654.5	565.3	484.2	373.1	271.7	197.0	133.5
117.5°	665.7	666.2	657.1	657.7	609.6	541.3	444.1	359.3	260.5	187.4	125.4
120°	617.6	616.0	608.5	607.5	568.5	502.3	407.3	321.4	242.9	179.9	116.4
122.5°	569.6	570.1	562.1	561.0	526.9	451.6	393.4	301.1	232.7	169.8	108.4
125°	524.7	525.3	522.6	519.9	475.6	428.1	354.5	285.6	220.5	160.1	100.4
127.5°	486.3	487.9	468.2	462.3	444.1	411.6	326.2	261.0	210.3	148.4	91.8
130°	445.2	445.7	448.9	450.5	432.9	364.6	317.6	254.1	200.7	137.7	83.8
132.5°	442.5	442.0	430.3	423.3	387.0	347.5	284.5	240.2	187.4	129.2	76.3
135°	404.6	402.5	389.7	386.5	368.9	334.7	290.9	239.1	184.2	121.2	69.4
137.5°	409.4	407.8	409.4	410.0	386.5	335.8	296.3	239.1	176.2	111.6	63.0
140°	411.0	410.5	391.8	387.5	367.8	343.8	284.5	223.7	158.5	98.2	56.6
142.5°	332.6	335.2	331.0	330.4	326.2	272.2	240.7	182.6	132.9	85.9	51.2
145°	276.0	277.6	258.9	253.0	237.5	229.0	193.2	152.7	114.8	76.9	45.9
147.5°	207.1	208.2	211.9	214.1	211.9	183.1	158.0	134.5	99.3	69.4	40.6
150°	193.2	193.2	183.1	184.2	174.0	160.1	144.7	124.4	90.7	62.5	35.8
152.5°	163.9	163.9	167.1	167.6	154.3	144.1	129.2	106.8	82.2	56.1	31.5
155°	142.5	144.1	140.4	140.4	141.5	127.6	113.2	91.3	72.6	49.6	28.8
157.5°	130.8	132.9	126.0	125.4	122.2	112.1	94.0	80.1	61.4	43.2	27.2
160°	114.8	115.8	111.0	110.0	100.9	90.2	78.5	66.7	51.8	37.4	24.6
162.5°	88.1	89.7	85.4	84.9	79.5	74.2	65.7	53.9	42.2	31.0	21.4
165°	72.1	72.6	71.0	71.0	68.3	58.7	51.2	43.2	33.6	24.0	17.6
167.5°	54.4	55.5	53.9	54.4	51.8	46.4	40.0	32.6	24.6	17.6	13.9
170°	42.7	43.2	42.2	42.2	39.5	34.2	27.2	21.4	16.5	11.2	10.7
172.5°	29.9	30.4	27.8	28.3	23.5	19.8	16.0	12.8	10.1	8.5	8.5
175°	3.7	4.8	9.1	9.1	10.1	9.1	8.5	6.9	6.4	6.9	6.9
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°	1472.8	1472.8	1472.8	1472.8	1472.8	1472.8	1472.8	1472.8	1472.8	1472.8	1472.8
2.5°	1477.6	1473.3	1462.1	1451.4	1437.0	1424.7	1414.1	1405.5	1404.5	1399.1	1398.6
5°	1477.6	1469.6	1447.2	1422.6	1399.7	1380.4	1361.8	1345.7	1340.4	1332.4	1330.8
7.5°	1470.7	1457.3	1424.7	1390.6	1353.2	1320.7	1292.9	1267.3	1256.6	1245.4	1242.2
10°	1454.6	1436.0	1391.1	1344.1	1295.0	1248.6	1208.6	1171.2	1154.1	1142.9	1138.6
12.5°	1437.0	1413.0	1358.0	1294.5	1231.0	1170.7	1122.1	1082.0	1053.7	1036.1	1030.8
15°	1418.3	1387.9	1318.5	1243.3	1160.5	1095.9	1029.2	977.9	945.9	926.2	920.3
17.5°	1392.2	1355.9	1274.2	1182.4	1089.0	1001.4	928.8	873.3	837.6	816.7	810.3
20°	1355.9	1312.1	1217.6	1111.9	1002.0	904.8	828.5	772.4	736.7	714.8	707.3
22.5°	1316.9	1266.2	1158.4	1040.4	919.2	816.2	736.1	681.7	646.4	626.7	628.3
25°	1275.8	1220.8	1101.3	967.3	831.7	732.4	655.0	606.9	571.2	555.2	555.2
27.5°	1234.7	1173.9	1042.5	893.6	753.2	657.1	586.7	542.9	514.1	503.9	503.9
30°	1188.8	1122.1	976.3	817.3	684.3	591.5	526.9	494.3	482.0	476.7	476.7
32.5°	1138.1	1071.4	917.1	744.7	619.8	533.3	479.4	466.6	460.1	458.5	459.1
35°	1094.9	1021.2	855.2	677.4	562.6	483.6	451.1	447.3	444.7	443.6	443.6
37.5°	1054.8	975.8	792.7	620.3	512.5	445.2	431.9	432.9	447.3	473.0	475.1
40°	1011.0	931.5	731.9	565.8	468.2	418.0	416.9	432.9	502.9	526.9	526.3
42.5°	973.7	884.5	675.8	519.9	429.2	398.8	402.0	478.8	502.9	497.5	498.6
45°	925.6	844.0	626.7	471.9	395.0	381.7	409.4	479.9	475.6	454.8	454.8
47.5°	892.5	789.5	579.2	430.8	368.3	366.2	445.2	450.0	399.8	367.8	367.3
50°	842.9	753.2	527.4	392.4	348.6	356.1	421.7	399.8	358.2	337.4	336.8
52.5°	800.7	696.6	477.2	359.8	332.0	354.5	390.2	359.8	326.2	314.9	314.9
55°	761.2	655.5	431.3	330.4	316.0	364.1	343.2	328.8	302.1	285.1	284.0
57.5°	704.6	585.6	382.2	305.3	299.5	336.8	313.3	297.9	270.1	249.3	247.7
60°	661.4	532.2	334.7	284.0	282.4	302.7	296.3	267.4	234.9	220.5	219.4
62.5°	609.6	491.6	295.2	263.2	262.1	265.3	273.8	237.0	210.3	198.6	197.5
65°	562.6	438.3	264.2	242.4	242.9	237.0	251.4	209.3	188.4	176.7	176.7
67.5°	515.1	387.5	235.4	219.9	231.1	221.0	230.1	186.3	169.2	158.0	156.9
70°	470.8	338.4	207.1	200.2	211.4	203.4	201.8	163.9	148.4	137.7	136.7
72.5°	430.8	291.5	181.0	179.9	188.4	187.4	173.0	142.0	127.0	117.4	115.3
74°	405.7	263.7	165.5	168.2	176.2	177.2	157.5	128.6	113.7	105.7	103.0
75°	390.2	242.4	154.8	160.1	168.7	169.8	146.8	119.0	105.2	97.2	94.5
77.5°	341.1	185.8	131.3	146.3	153.7	150.5	122.8	96.1	84.9	76.9	74.7
80°	268.0	132.4	110.0	132.4	140.4	126.5	96.6	75.3	63.5	57.1	56.1
82.5°	187.9	92.3	89.7	106.2	116.4	102.0	73.7	55.5	45.9	41.1	40.0
85°	115.8	67.8	73.1	84.9	89.7	75.3	54.4	43.2	33.6	28.3	27.2
87.5°	73.7	56.1	59.8	74.2	68.3	53.9	41.6	31.5	23.5	18.1	17.6
90°	59.8	55.0	55.5	71.5	56.1	42.2	31.0	21.4	10.7	5.3	4.8
92.5°	61.4	59.8	60.9	75.3	55.0	40.0	28.8	19.8	9.1	3.7	3.2
95°	76.9	69.4	69.9	74.2	56.6	40.6	28.8	19.8	9.1	3.2	2.7
97.5°	90.2	80.6	75.3	71.5	57.1	41.1	28.3	18.7	8.5	2.7	2.1
100°	99.3	89.7	75.3	69.4	56.6	40.6	27.8	17.6	8.0	2.1	2.1
102.5°	107.8	96.6	77.4	68.3	56.1	39.5	26.7	16.5	7.5	2.1	1.6
105°	114.8	101.4	80.6	67.3	55.5	38.4	25.6	15.5	6.9	1.6	1.1
107.5°	118.0	103.0	82.2	65.7	55.5	37.4	24.6	14.4	5.9	1.1	0.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	117.4	102.5	81.1	65.7	56.1	36.8	23.5	13.3	5.3	0.5	0.0
112.5°	114.2	99.8	78.5	66.2	53.9	37.4	22.4	12.8	4.8	0.5	0.0
115°	109.4	96.1	75.3	66.2	51.2	36.8	21.4	11.7	3.7	0.0	0.0
117.5°	103.0	91.3	72.1	65.1	48.6	35.2	20.3	10.7	3.2	0.0	0.0
120°	96.6	85.9	68.9	63.5	47.0	33.1	19.8	10.1	2.7	0.0	0.0
122.5°	89.7	80.6	65.7	60.9	45.9	30.4	18.1	9.1	2.1	0.0	0.0
125°	82.7	74.7	61.9	59.3	43.2	28.3	16.5	8.0	1.6	0.0	0.0
127.5°	76.3	68.9	57.7	57.7	39.5	27.2	14.9	6.9	1.6	0.0	0.0
130°	69.4	63.0	53.9	55.0	36.3	25.6	13.9	6.4	1.1	0.0	0.0
132.5°	63.0	57.1	50.2	51.2	33.1	24.6	12.8	5.3	1.1	0.0	0.0
135°	57.1	52.8	46.4	47.0	30.4	23.5	11.2	4.8	1.1	0.0	0.0
137.5°	51.8	48.6	43.8	42.2	27.8	21.9	10.1	3.7	0.5	0.0	0.0
140°	48.0	44.8	42.7	37.9	25.1	20.3	9.1	3.2	0.5	0.0	0.0
142.5°	43.8	41.6	42.2	33.6	23.0	18.1	8.0	2.7	0.5	0.0	0.0
145°	39.0	37.9	40.0	28.8	20.8	16.5	6.9	2.7	0.5	0.0	0.0
147.5°	35.8	35.2	38.4	24.6	18.7	14.9	6.4	2.1	0.5	0.0	0.0
150°	33.1	33.1	34.7	20.8	16.5	12.8	5.3	2.1	0.0	0.0	0.0
152.5°	30.4	31.5	30.4	18.1	14.4	11.2	4.3	2.1	0.0	0.0	0.0
155°	28.3	28.8	26.2	16.0	12.3	9.1	4.3	1.6	0.0	0.0	0.0
157.5°	27.2	27.2	23.0	13.9	10.1	6.9	3.7	1.6	0.0	0.0	0.0
160°	25.1	25.1	19.8	12.3	8.5	5.9	3.2	1.6	0.0	0.0	0.0
162.5°	21.9	21.4	16.5	10.7	7.5	4.8	3.2	1.6	0.0	0.0	0.0
165°	17.6	16.5	12.8	9.1	5.9	4.3	2.7	1.6	0.0	0.0	0.0
167.5°	13.3	12.8	9.6	6.9	4.8	3.7	2.7	1.6	0.0	0.0	0.0
170°	10.1	9.6	7.5	5.3	4.3	3.7	2.7	1.6	0.0	0.0	0.0
172.5°	8.0	8.0	6.4	4.8	4.3	3.7	2.7	1.1	0.0	0.0	0.0
175°	6.9	6.4	5.3	4.8	4.3	2.7	2.1	1.1	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)