

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: McGRAW-EDISON

Report Number: P588496

Luminaire Tested: **GAT-CA6-LED-70-727-U-33-5-X-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GAT-CA6-LED-70-727-U-33-5-X-X
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR
Light Source: (6) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9674 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U4 - G5

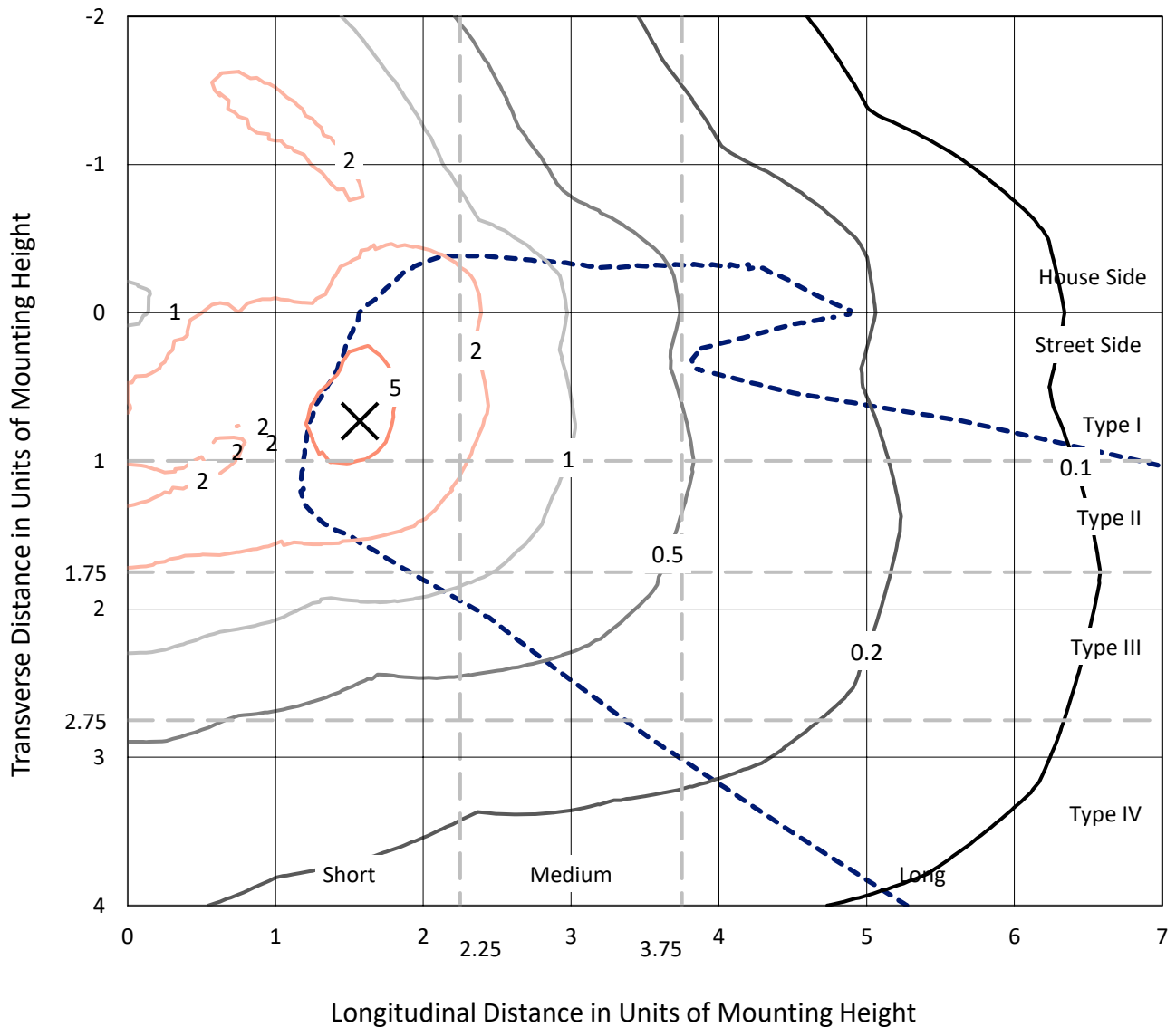
Input Watts (W): 73.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

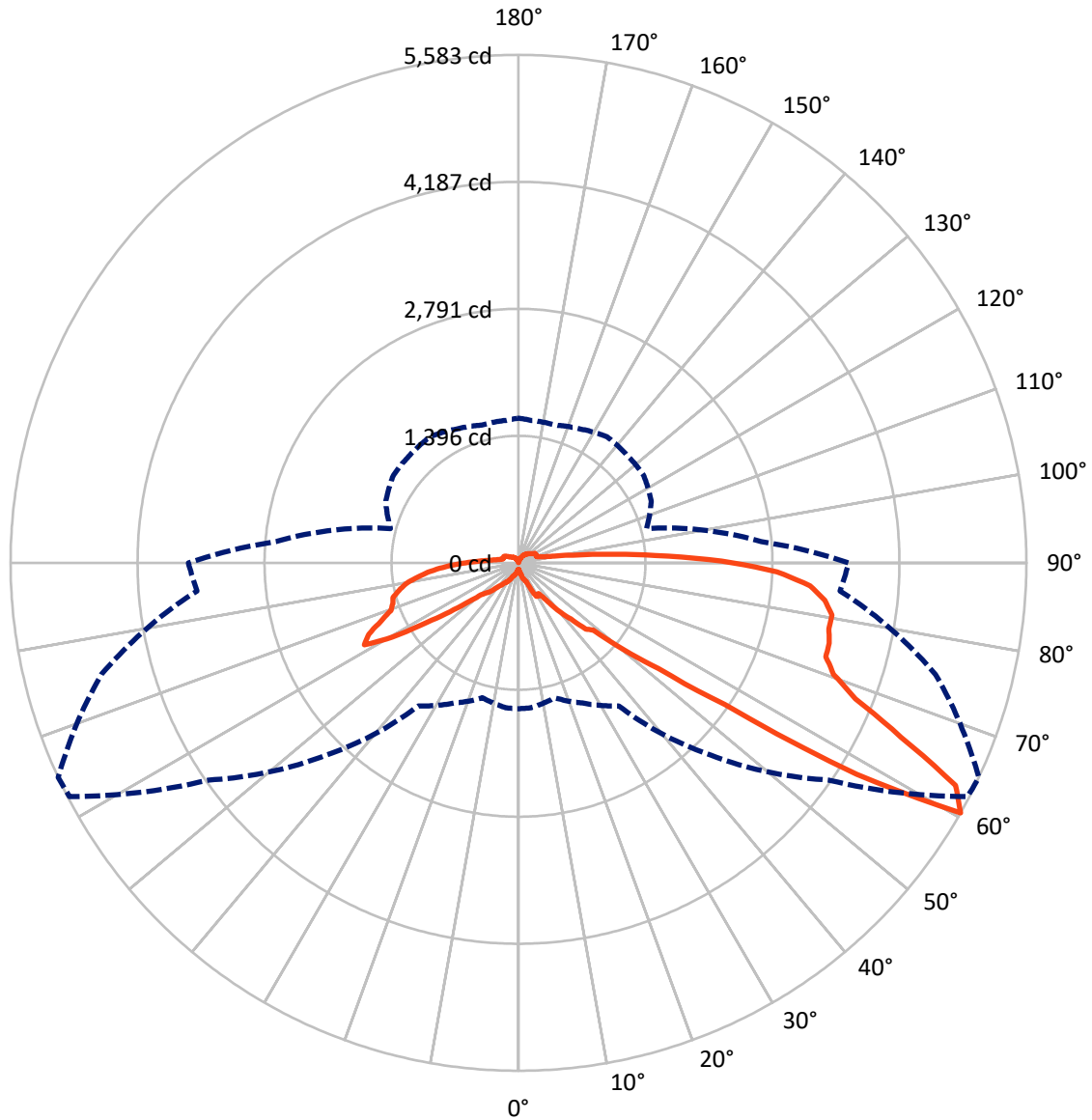
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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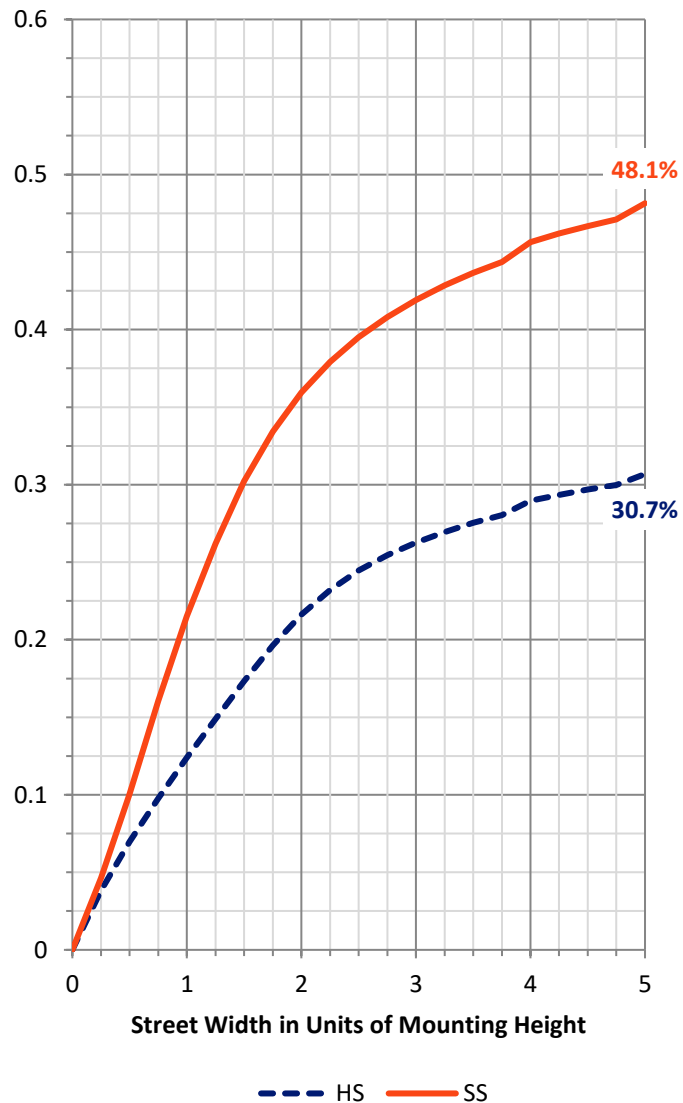
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3226.0	516.6	3742.7
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	5161.3	770.1	5931.3
	% Fixture	53.4	8.0	61.3
Total	Lumens	8387.3	1286.7	9674.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.3	0.1
10°-20°	41.3	0.4
20°-30°	118.2	1.2
30°-40°	254.4	2.6
40°-50°	481.5	5.0
50°-60°	1345.0	13.9
60°-70°	2397.9	24.8
70°-80°	2099.4	21.7
80°-90°	1640.3	17.0
90°-100°	620.2	6.4
100°-110°	213.3	2.2
110°-120°	174.4	1.8
120°-130°	117.2	1.2
130°-140°	80.4	0.8
140°-150°	50.6	0.5
150°-160°	23.4	0.2
160°-170°	6.6	0.1
170°-180°	0.6	0.0
0°-90°	8387.3	86.7
0°-180°	9674.0	100.0

Coefficient of Utilization



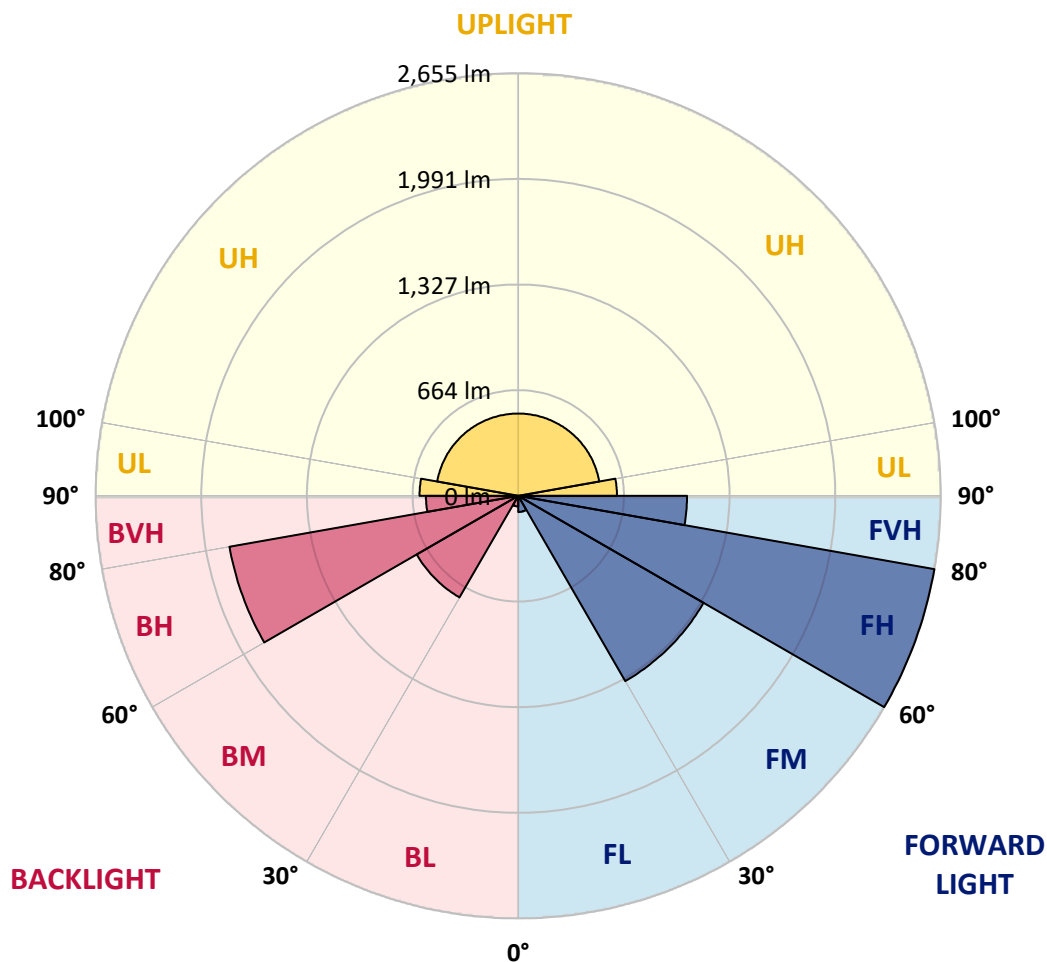
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	101.9	1.1			
FM (30°-60°)	1344.1	13.9			
FH (60°-80°)	2655.0	27.4			G2/5000
FVH (80°-90°)	1060.3	11.0			G5
BL (0°-30°)	66.8	0.7	B0/110		
BM (30°-60°)	736.8	7.6	B1/1000		
BH (60°-80°)	1842.3	19.0	B3/2500		G3/2500
BVH (80°-90°)	580.1	6.0			G4/750
UL (90°-100°)	620.2	6.4		U4/1000	
UH (100°-180°)	516.6	5.3		U4/1000	

BUG Rating: B3-U4-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
2.5°	85.3	82.8	80.3	80.3	79.0	77.8	77.8	75.3	76.5	75.3	75.3
5°	100.3	99.1	96.6	97.8	95.3	94.1	94.1	92.8	91.6	90.3	86.5
7.5°	116.6	116.6	117.9	119.2	115.4	111.6	110.4	107.9	107.9	106.6	104.1
10°	134.2	132.9	127.9	127.9	125.4	122.9	124.2	122.9	122.9	122.9	117.9
12.5°	139.2	138.0	134.2	134.2	134.2	132.9	138.0	136.7	138.0	136.7	129.2
15°	156.8	155.5	154.3	155.5	160.5	170.6	183.1	178.1	179.4	176.8	149.3
17.5°	164.3	168.1	170.6	171.8	176.8	176.8	179.4	178.1	183.1	186.9	170.6
20°	190.6	188.1	190.6	199.4	212.0	213.2	209.5	209.5	212.0	213.2	181.9
22.5°	201.9	200.7	210.7	203.2	203.2	209.5	232.0	224.5	224.5	222.0	195.7
25°	262.1	267.1	277.2	289.7	319.8	328.6	353.7	326.1	329.9	291.0	248.3
27.5°	314.8	318.6	377.5	430.2	454.0	441.5	462.8	411.4	416.4	421.4	362.5
30°	331.1	338.6	423.9	462.8	494.2	469.1	496.7	428.9	425.2	454.0	430.2
32.5°	318.6	326.1	416.4	432.7	465.3	558.1	523.0	413.9	402.6	416.4	445.2
35°	349.9	354.9	408.9	370.0	400.1	780.1	684.8	482.9	460.3	383.8	426.4
37.5°	420.2	420.2	484.1	511.7	534.3	920.6	899.3	600.8	583.2	449.0	492.9
40°	509.2	506.7	585.7	604.5	614.6	834.1	1087.4	766.3	727.4	528.0	642.2
42.5°	563.1	558.1	622.1	642.2	642.2	706.1	1230.4	933.1	842.8	615.8	785.1
45°	584.5	589.5	672.3	647.2	666.0	724.9	1383.4	1163.9	1037.2	722.4	910.6
47.5°	529.3	536.8	656.0	658.5	563.1	579.4	1240.4	1209.1	1105.0	773.9	950.7
50°	649.7	654.7	697.3	668.5	622.1	733.7	1477.5	1554.0	1508.8	958.2	1003.4
52.5°	891.7	914.3	954.5	979.5	965.7	1232.9	1981.7	1967.9	1930.2	1438.6	1369.6
55°	1155.1	1173.9	1230.4	1382.1	1497.5	1846.2	2464.5	2753.0	2750.5	2336.6	2134.7
57.5°	1394.7	1395.9	1403.5	1590.4	1768.4	2410.6	3228.4	4288.2	4383.5	3732.6	3056.5
60°	1602.9	1599.1	1535.2	1702.0	1919.0	2988.8	4161.5	5563.7	5582.5	4746.0	3545.7
62.5°	1659.3	1648.0	1555.2	1710.8	1896.4	3000.1	4399.8	5412.0	5390.6	4817.5	3609.6
65°	1610.4	1599.1	1481.2	1620.5	1708.2	2726.7	4063.7	4654.4	4619.3	4401.1	3436.6
67.5°	1537.7	1545.2	1428.6	1535.2	1595.4	2557.4	3710.0	4004.7	3994.7	4101.3	3292.3
70°	1432.3	1438.6	1332.0	1463.7	1551.5	2449.5	3371.3	3691.2	3673.6	3830.4	3080.4
72.5°	1436.1	1454.9	1328.2	1427.3	1518.9	2301.5	3218.3	3583.3	3531.9	3555.7	2825.8
75°	1446.1	1471.2	1337.0	1426.0	1511.3	2247.6	3200.8	3592.1	3526.9	3456.6	2729.2
77.5°	1449.9	1486.2	1342.0	1439.8	1513.8	2173.6	3160.6	3548.2	3486.7	3361.3	2615.0
80°	1419.8	1458.7	1320.7	1441.1	1497.5	2026.8	3059.0	3540.7	3494.3	3348.8	2568.6
82.5°	1359.6	1398.5	1279.3	1378.4	1466.2	1877.6	2916.1	3393.9	3391.4	3228.4	2470.8
85°	1227.9	1270.5	1180.2	1271.8	1379.6	1679.4	2627.6	3144.3	3213.3	3081.6	2339.1
87.5°	1101.2	1143.8	1096.2	1147.6	1256.7	1459.9	2257.6	2714.1	2843.3	2734.2	2009.3
90°	957.0	1000.9	962.0	941.9	1029.7	1165.2	1804.8	2110.9	2232.5	2166.0	1478.7
92.5°	766.3	804.0	767.6	721.2	773.9	855.4	1340.8	1477.5	1506.3	1442.4	969.5
95°	579.4	607.0	574.4	528.0	534.3	585.7	924.4	968.3	960.7	884.2	615.8
97.5°	402.6	418.9	397.6	365.0	376.3	408.9	612.1	607.0	607.0	540.6	402.6
100°	279.7	286.0	275.9	260.9	269.7	291.0	411.4	410.1	397.6	365.0	293.5
102.5°	222.0	223.3	213.2	203.2	198.2	218.2	297.2	296.0	298.5	283.5	229.5
105°	195.7	194.4	185.6	176.8	166.8	186.9	235.8	245.8	244.6	232.0	196.9
107.5°	179.4	178.1	169.3	161.8	153.0	170.6	204.4	218.2	217.0	215.7	185.6
110°	166.8	165.6	158.0	150.5	143.0	163.0	191.9	213.2	213.2	213.2	188.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	158.0	158.0	151.8	145.5	139.2	161.8	184.4	209.5	209.5	215.7	196.9
115°	153.0	151.8	146.7	143.0	138.0	163.0	181.9	206.9	208.2	217.0	195.7
117.5°	149.3	148.0	144.2	139.2	136.7	160.5	183.1	212.0	210.7	224.5	191.9
120°	143.0	140.5	135.5	130.4	127.9	148.0	178.1	205.7	203.2	209.5	176.8
122.5°	138.0	130.4	121.7	117.9	117.9	134.2	166.8	185.6	183.1	178.1	159.3
125°	126.7	119.2	111.6	110.4	111.6	125.4	159.3	170.6	171.8	168.1	150.5
127.5°	114.1	109.1	105.4	105.4	107.9	122.9	156.8	164.3	164.3	156.8	143.0
130°	107.9	106.6	104.1	104.1	109.1	124.2	153.0	155.5	155.5	145.5	139.2
132.5°	105.4	102.8	100.3	100.3	105.4	120.4	143.0	148.0	146.7	136.7	131.7
135°	100.3	99.1	96.6	96.6	102.8	117.9	134.2	139.2	138.0	125.4	121.7
137.5°	97.8	95.3	95.3	95.3	101.6	116.6	126.7	130.4	129.2	116.6	112.9
140°	94.1	92.8	90.3	90.3	99.1	112.9	119.2	120.4	119.2	109.1	105.4
142.5°	87.8	86.5	85.3	87.8	96.6	106.6	111.6	111.6	110.4	104.1	99.1
145°	84.0	82.8	81.5	87.8	95.3	100.3	105.4	101.6	101.6	97.8	92.8
147.5°	80.3	79.0	79.0	84.0	90.3	90.3	94.1	92.8	94.1	92.8	87.8
150°	72.7	71.5	71.5	75.3	76.5	76.5	80.3	80.3	80.3	80.3	76.5
152.5°	64.0	62.7	64.0	65.2	65.2	65.2	67.7	69.0	69.0	67.7	66.5
155°	55.2	55.2	55.2	56.4	56.4	55.2	58.9	58.9	58.9	58.9	57.7
157.5°	48.9	48.9	48.9	48.9	48.9	47.7	50.2	50.2	51.4	50.2	50.2
160°	42.6	41.4	41.4	41.4	41.4	40.1	41.4	41.4	41.4	42.6	42.6
162.5°	33.9	32.6	32.6	32.6	32.6	30.1	32.6	31.4	32.6	32.6	33.9
165°	27.6	26.3	26.3	26.3	25.1	23.8	25.1	23.8	23.8	23.8	25.1
167.5°	21.3	21.3	20.1	21.3	20.1	17.6	17.6	16.3	16.3	16.3	16.3
170°	16.3	15.1	13.8	15.1	13.8	11.3	11.3	10.0	10.0	8.8	8.8
172.5°	11.3	10.0	8.8	10.0	8.8	6.3	6.3	3.8	3.8	3.8	3.8
175°	10.0	8.8	7.5	8.8	7.5	5.0	3.8	2.5	2.5	2.5	2.5
177.5°	10.0	8.8	7.5	8.8	7.5	5.0	3.8	2.5	2.5	2.5	2.5
180°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
2.5°	75.3	74.0	72.7	75.3	74.0	75.3	76.5	77.8	77.8	76.5	76.5
5°	86.5	85.3	82.8	81.5	79.0	79.0	79.0	81.5	81.5	80.3	81.5
7.5°	102.8	100.3	96.6	94.1	90.3	90.3	89.0	91.6	92.8	90.3	91.6
10°	115.4	114.1	109.1	105.4	101.6	100.3	100.3	101.6	101.6	100.3	100.3
12.5°	126.7	124.2	119.2	115.4	110.4	109.1	109.1	110.4	110.4	109.1	109.1
15°	143.0	135.5	130.4	126.7	121.7	120.4	119.2	120.4	121.7	119.2	119.2
17.5°	165.6	156.8	145.5	135.5	130.4	132.9	134.2	135.5	134.2	130.4	130.4
20°	178.1	173.1	158.0	150.5	144.2	144.2	144.2	144.2	144.2	143.0	144.2
22.5°	186.9	179.4	160.5	155.5	151.8	154.3	156.8	158.0	158.0	156.8	156.8
25°	227.0	199.4	180.6	176.8	171.8	173.1	170.6	170.6	171.8	170.6	173.1
27.5°	312.3	267.1	224.5	209.5	205.7	205.7	208.2	208.2	208.2	208.2	206.9
30°	375.0	322.3	252.1	232.0	229.5	240.8	247.1	252.1	249.6	245.8	245.8
32.5°	385.0	327.4	257.1	249.6	255.9	264.6	270.9	274.7	278.4	277.2	275.9
35°	363.7	302.3	253.4	263.4	268.4	273.4	274.7	272.2	283.5	288.5	289.7
37.5°	406.4	338.6	294.7	302.3	296.0	291.0	293.5	294.7	309.8	317.3	324.8
40°	519.2	408.9	334.9	331.1	327.4	338.6	353.7	361.2	360.0	354.9	356.2
42.5°	628.4	477.9	377.5	376.3	375.0	395.1	418.9	417.7	406.4	397.6	397.6
45°	740.0	544.3	445.2	446.5	444.0	451.5	457.8	452.8	454.0	456.5	459.0
47.5°	809.0	604.5	487.9	484.1	467.8	482.9	500.4	489.1	485.4	479.1	481.6
50°	825.3	619.6	513.0	540.6	525.5	514.2	495.4	487.9	501.7	511.7	519.2
52.5°	1072.4	765.1	640.9	684.8	664.7	624.6	620.8	608.3	623.3	624.6	633.4
55°	1797.3	1226.6	883.0	925.6	926.9	913.1	975.8	940.7	909.3	895.5	890.5
57.5°	2833.3	1896.4	1142.6	1196.5	1247.9	1296.9	1382.1	1310.7	1220.4	1209.1	1221.6
60°	3628.5	2677.8	1457.4	1609.2	1678.1	1680.7	1691.9	1621.7	1566.5	1571.5	1589.1
62.5°	3799.0	3330.0	1856.2	1919.0	1925.2	1878.8	1898.9	1944.0	1866.3	1804.8	1821.1
65°	3684.9	3588.3	1986.7	1823.6	1813.6	1821.1	1957.8	2083.3	1926.5	1771.0	1771.0
67.5°	3464.2	3391.4	1853.7	1640.5	1668.1	1753.4	1926.5	1989.2	1822.4	1656.8	1656.8
70°	3228.4	3082.9	1704.5	1495.0	1562.8	1661.8	1774.7	1779.7	1681.9	1564.0	1556.5
72.5°	2973.8	2842.1	1640.5	1452.4	1483.7	1501.3	1562.8	1601.6	1590.4	1513.8	1512.6
75°	2898.5	2791.9	1639.3	1432.3	1413.5	1407.2	1449.9	1533.9	1572.8	1527.6	1530.1
77.5°	2784.4	2720.4	1562.8	1348.3	1328.2	1328.2	1350.8	1418.5	1477.5	1458.7	1464.9
80°	2705.4	2608.8	1446.1	1256.7	1229.1	1232.9	1235.4	1281.8	1337.0	1339.5	1339.5
82.5°	2553.6	2371.7	1269.3	1120.0	1101.2	1106.2	1097.4	1123.8	1138.8	1157.6	1153.9
85°	2304.0	2046.9	1072.4	970.8	940.7	930.6	923.1	924.4	933.1	929.4	914.3
87.5°	1930.2	1623.0	855.4	796.4	761.3	736.2	726.2	713.7	712.4	698.6	703.6
90°	1424.8	1113.7	634.6	613.3	588.2	561.9	548.1	535.6	525.5	511.7	506.7
92.5°	929.4	717.4	464.1	452.8	436.5	421.4	415.1	408.9	406.4	395.1	398.8
95°	580.7	485.4	348.7	336.1	327.4	323.6	324.8	326.1	323.6	311.0	314.8
97.5°	387.6	351.2	272.2	263.4	254.6	253.4	254.6	257.1	258.4	249.6	252.1
100°	286.0	269.7	223.3	217.0	209.5	206.9	208.2	210.7	212.0	204.4	205.7
102.5°	227.0	219.5	193.1	190.6	181.9	179.4	181.9	183.1	184.4	179.4	179.4
105°	199.4	199.4	178.1	176.8	170.6	168.1	169.3	170.6	171.8	166.8	166.8
107.5°	191.9	193.1	171.8	173.1	169.3	168.1	170.6	173.1	171.8	168.1	166.8
110°	198.2	200.7	171.8	175.6	176.8	179.4	184.4	185.6	185.6	183.1	184.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	204.4	208.2	169.3	178.1	186.9	193.1	201.9	206.9	204.4	203.2	204.4
115°	199.4	201.9	158.0	171.8	188.1	196.9	199.4	199.4	193.1	193.1	194.4
117.5°	193.1	198.2	146.7	158.0	169.3	176.8	175.6	171.8	164.3	161.8	169.3
120°	179.4	194.4	140.5	143.0	144.2	146.7	143.0	139.2	132.9	131.7	136.7
122.5°	165.6	179.4	129.2	126.7	125.4	125.4	124.2	122.9	119.2	120.4	125.4
125°	154.3	161.8	117.9	114.1	112.9	114.1	114.1	114.1	111.6	109.1	109.1
127.5°	145.5	148.0	111.6	106.6	105.4	105.4	105.4	106.6	105.4	101.6	101.6
130°	140.5	139.2	107.9	99.1	97.8	99.1	99.1	100.3	97.8	95.3	95.3
132.5°	130.4	127.9	102.8	94.1	92.8	94.1	94.1	94.1	91.6	89.0	89.0
135°	119.2	116.6	96.6	87.8	86.5	87.8	87.8	89.0	86.5	84.0	84.0
137.5°	110.4	107.9	90.3	82.8	81.5	81.5	82.8	82.8	81.5	79.0	79.0
140°	102.8	100.3	84.0	77.8	75.3	76.5	76.5	76.5	75.3	72.7	72.7
142.5°	96.6	95.3	77.8	71.5	69.0	70.2	70.2	71.5	69.0	66.5	66.5
145°	91.6	89.0	72.7	65.2	64.0	64.0	64.0	65.2	62.7	60.2	60.2
147.5°	86.5	84.0	66.5	58.9	57.7	57.7	57.7	57.7	56.4	53.9	52.7
150°	76.5	75.3	61.5	53.9	51.4	51.4	51.4	50.2	47.7	45.2	45.2
152.5°	65.2	64.0	53.9	47.7	45.2	45.2	43.9	43.9	41.4	40.1	38.9
155°	56.4	56.4	48.9	42.6	40.1	38.9	37.6	37.6	36.4	35.1	33.9
157.5°	50.2	48.9	43.9	38.9	33.9	33.9	32.6	32.6	31.4	30.1	28.8
160°	42.6	42.6	37.6	32.6	28.8	27.6	27.6	26.3	25.1	23.8	23.8
162.5°	33.9	33.9	30.1	26.3	22.6	22.6	21.3	21.3	20.1	18.8	17.6
165°	23.8	23.8	22.6	20.1	17.6	16.3	16.3	16.3	15.1	13.8	13.8
167.5°	16.3	16.3	15.1	13.8	12.5	11.3	12.5	12.5	11.3	10.0	10.0
170°	8.8	8.8	7.5	7.5	6.3	6.3	7.5	8.8	7.5	6.3	5.0
172.5°	3.8	3.8	3.8	3.8	2.5	3.8	5.0	6.3	5.0	3.8	3.8
175°	2.5	2.5	3.8	3.8	2.5	3.8	5.0	6.3	5.0	3.8	3.8
177.5°	2.5	2.5	3.8	3.8	2.5	3.8	5.0	6.3	5.0	3.8	3.8
180°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0

(END OF REPORT)