

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: P588391

Luminaire Tested: **GAT-CA6-LED-110-760-U-33-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-14)
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-110-760-U-33-5-6-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR
Light Source: (6) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10127 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U3 - G4

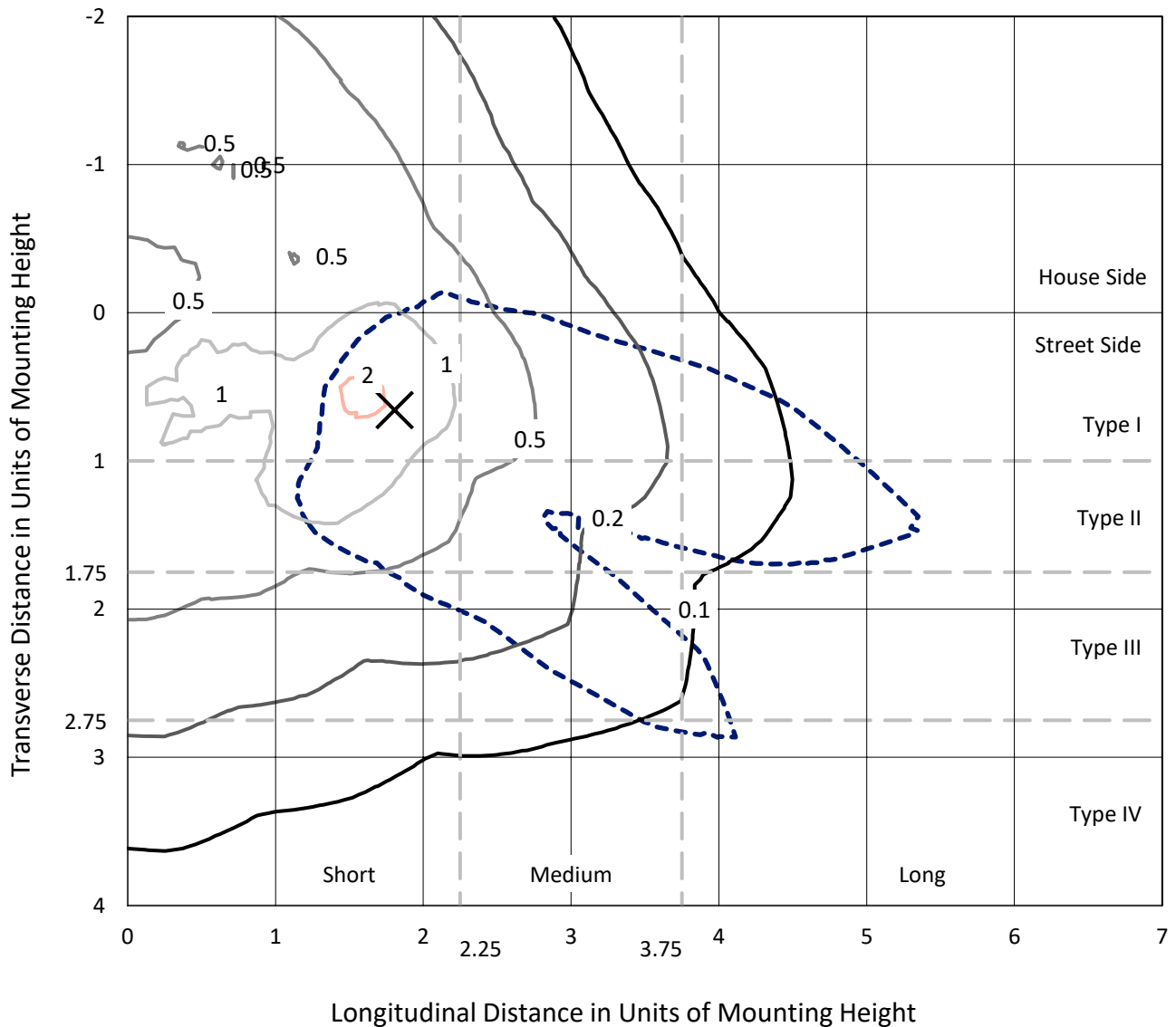
Input Watts (W): 112.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

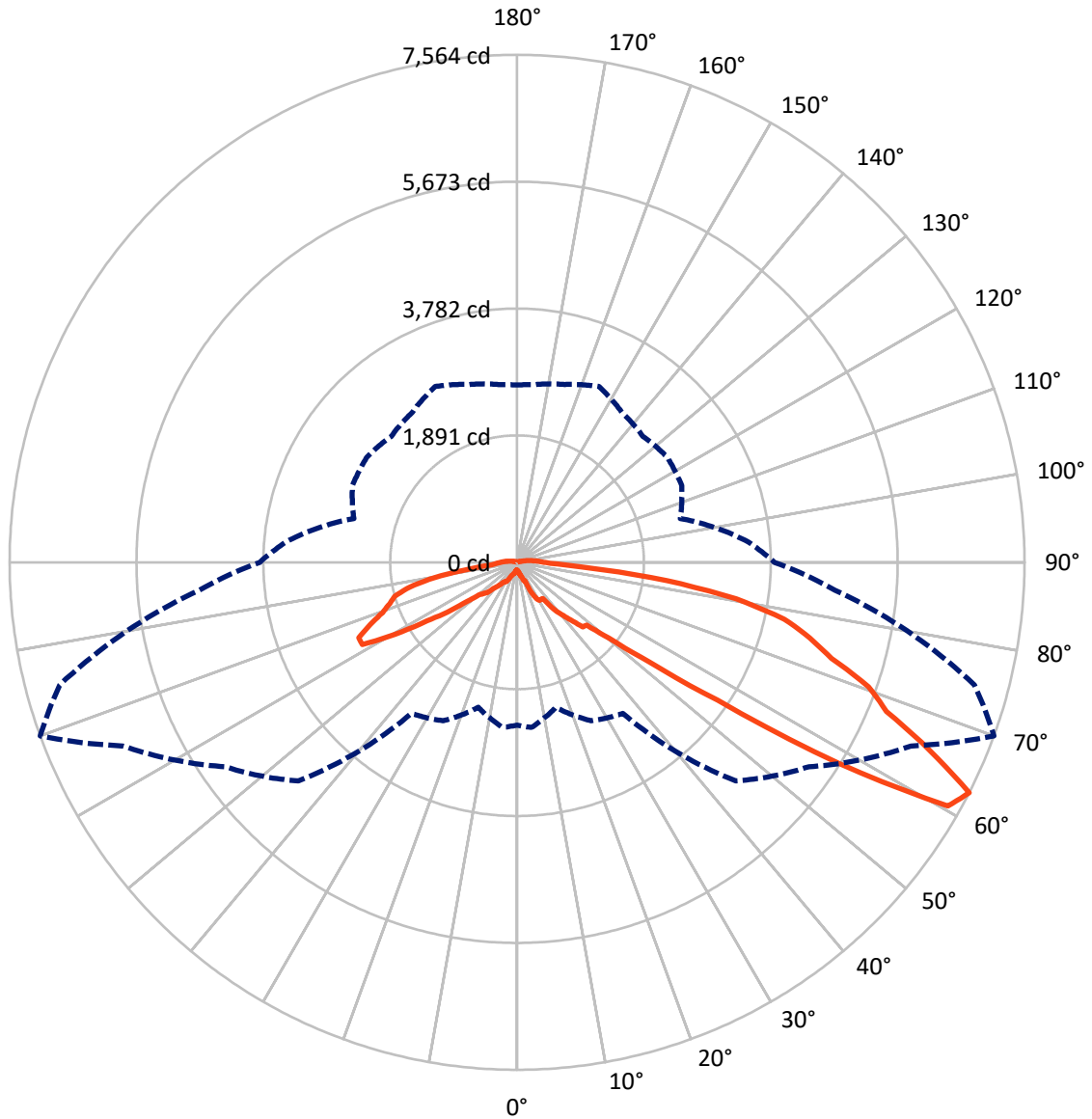
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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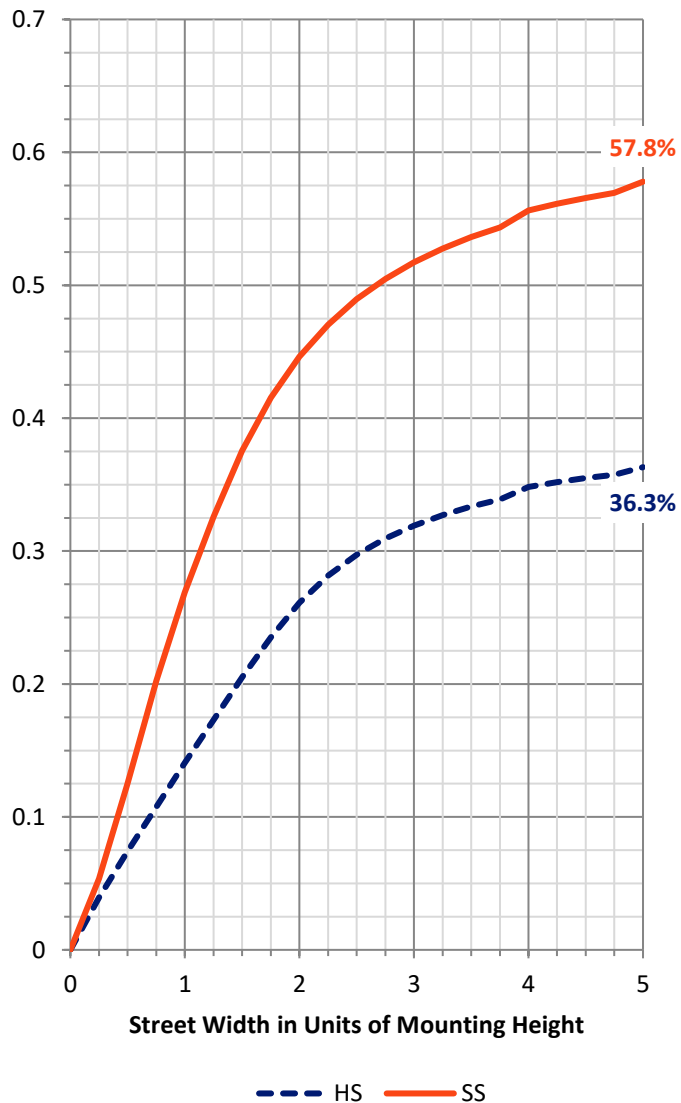
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3753.3	137.6	3890.9
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	6047.0	189.1	6236.1
	% Fixture	59.7	1.9	61.6
Total	Lumens	9800.3	326.7	10127.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.8	0.1
10°-20°	55.1	0.5
20°-30°	170.8	1.7
30°-40°	366.4	3.6
40°-50°	686.4	6.8
50°-60°	1781.2	17.6
60°-70°	3262.9	32.2
70°-80°	2617.2	25.8
80°-90°	847.5	8.4
90°-100°	223.3	2.2
100°-110°	72.6	0.7
110°-120°	28.5	0.3
120°-130°	2.2	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9800.3	96.8
0°-180°	10127.0	100.0

Coefficient of Utilization

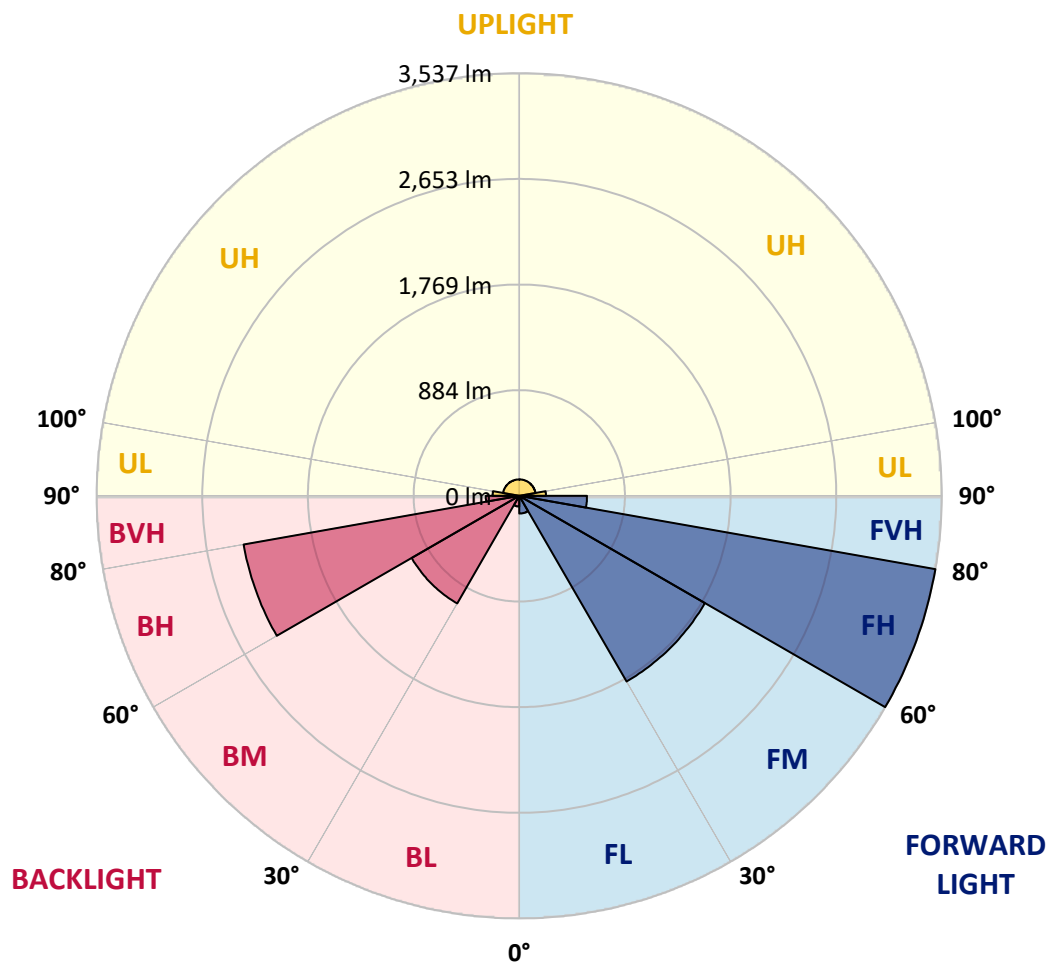


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	148.6	1.5			
FM (30°-60°)	1794.4	17.7			
FH (60°-80°)	3537.1	34.9			G2/5000
FVH (80°-90°)	567.0	5.6			G4/750
BL (0°-30°)	90.1	0.9	B0/110		
BM (30°-60°)	1039.7	10.3	B2/2500		
BH (60°-80°)	2343.0	23.1	B3/2500		G3/2500
BVH (80°-90°)	280.5	2.8			G3/500
UL (90°-100°)	223.3	2.2		U3/500	
UH (100°-180°)	137.6	1.4		U3/500	

BUG Rating: B3-U3-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
2.5°	129.7	129.7	129.7	127.8	125.8	123.9	122.0	122.0	120.0	118.1	116.2
5°	141.3	139.4	137.5	133.6	131.6	131.6	129.7	129.7	129.7	127.8	125.8
7.5°	156.8	156.8	154.9	152.9	151.0	149.1	147.1	145.2	145.2	143.3	141.3
10°	178.1	178.1	178.1	176.2	176.2	174.2	170.4	168.4	164.6	162.6	156.8
12.5°	199.4	201.3	197.5	197.5	197.5	195.5	191.7	189.7	185.9	182.0	174.2
15°	220.7	218.8	216.8	214.9	218.8	218.8	216.8	216.8	209.1	203.3	189.7
17.5°	240.1	240.1	242.0	242.0	247.8	245.9	245.9	243.9	240.1	230.4	213.0
20°	271.0	273.0	273.0	273.0	292.3	300.1	302.0	303.9	298.1	278.8	243.9
22.5°	302.0	303.9	317.5	313.6	313.6	313.6	333.0	323.3	298.1	274.9	255.5
25°	408.5	414.3	418.2	431.7	447.2	489.8	557.6	536.3	497.5	418.2	352.3
27.5°	511.1	518.8	588.5	685.3	698.9	648.5	696.9	633.1	613.7	532.4	478.2
30°	557.6	571.1	691.1	757.0	780.2	714.4	784.1	662.1	656.3	598.2	551.7
32.5°	569.2	578.9	710.5	718.2	724.0	716.3	820.8	671.8	658.2	600.1	532.4
35°	551.7	563.4	652.4	607.9	609.8	747.3	942.8	724.0	662.1	561.4	485.9
37.5°	679.5	679.5	755.0	766.6	817.0	983.5	1235.1	956.4	886.7	731.8	638.9
40°	774.4	784.1	904.1	948.6	956.4	1097.7	1546.8	1120.9	1022.2	818.9	747.3
42.5°	902.2	900.2	1010.6	1041.5	1062.8	1115.1	1581.7	1289.3	1173.2	927.3	873.1
45°	923.5	954.4	1055.1	1020.3	1047.4	1180.9	1651.4	1527.5	1372.6	1132.5	1020.3
47.5°	838.3	880.9	1084.1	1055.1	946.7	1008.6	1324.2	1568.1	1397.8	1163.5	1084.1
50°	904.1	927.3	1028.0	1008.6	863.4	1072.5	1453.9	1965.0	1775.3	1384.2	1180.9
52.5°	1169.3	1219.7	1237.1	1312.6	1242.9	1604.9	2034.7	2489.6	2464.5	2003.7	1558.4
55°	1502.3	1575.9	1653.3	1939.8	1980.5	2520.6	2840.1	3326.0	3628.0	3169.2	2390.9
57.5°	1862.4	1966.9	1941.8	2358.0	2421.9	3415.0	3709.3	4847.6	5654.9	5031.6	3502.2
60°	2210.9	2280.6	2139.2	2505.1	2627.1	4299.8	4731.5	6313.2	7376.0	6712.0	4313.3
62.5°	2425.8	2470.3	2238.0	2605.8	2749.1	4607.6	5310.3	6477.7	7563.8	7058.5	4752.8
65°	2423.8	2412.2	2147.0	2466.4	2447.1	4253.3	5132.2	5443.9	6756.5	6671.3	4808.9
67.5°	2329.0	2332.8	2054.1	2307.7	2228.3	3750.0	4754.7	4605.7	5939.5	6053.7	4677.3
70°	2238.0	2284.4	2019.2	2239.9	2203.1	3606.7	4590.2	4144.9	5556.2	5773.0	4537.9
72.5°	2110.2	2154.7	1905.0	2098.6	2112.1	3320.2	4309.4	3618.3	4899.9	5161.3	4067.5
75°	2108.3	2164.4	1930.2	2100.5	2121.8	3157.6	4344.3	3436.3	4506.9	4857.3	3796.4
77.5°	1988.2	2038.6	1821.7	1980.5	2040.5	2857.5	4144.9	3209.8	4071.3	4464.3	3442.1
80°	1597.2	1664.9	1486.8	1591.4	1624.3	2143.1	3324.0	2629.0	3312.4	3705.4	2813.0
82.5°	1091.9	1153.8	1035.7	1113.2	1155.8	1405.5	2298.0	1893.4	2251.5	2491.6	1761.7
85°	631.1	704.7	635.0	625.3	646.6	741.5	1237.1	1006.7	1047.4	1101.6	782.1
87.5°	396.9	408.5	373.6	375.6	379.4	406.6	563.4	449.1	495.6	561.4	474.3
90°	315.6	327.2	302.0	303.9	298.1	323.3	422.0	342.7	381.4	439.5	375.6
92.5°	273.0	280.7	263.3	267.2	263.3	282.7	352.3	282.7	313.6	360.1	307.8
95°	232.3	238.1	228.4	230.4	218.8	230.4	274.9	214.9	238.1	271.0	230.4
97.5°	185.9	191.7	185.9	185.9	174.2	180.0	211.0	166.5	182.0	203.3	174.2
100°	147.1	149.1	147.1	145.2	135.5	135.5	147.1	120.0	125.8	139.4	120.0
102.5°	112.3	114.2	112.3	110.3	98.7	92.9	92.9	77.4	81.3	85.2	75.5
105°	89.1	91.0	89.1	85.2	75.5	69.7	67.8	56.1	56.1	58.1	52.3
107.5°	73.6	73.6	73.6	69.7	63.9	56.1	50.3	40.7	40.7	42.6	40.7
110°	60.0	60.0	58.1	56.1	50.3	44.5	38.7	32.9	32.9	32.9	31.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	50.3	50.3	48.4	46.5	40.7	34.8	31.0	27.1	27.1	27.1	25.2
115°	42.6	42.6	40.7	38.7	34.8	29.0	25.2	21.3	21.3	21.3	21.3
117.5°	36.8	36.8	34.8	32.9	29.0	25.2	21.3	17.4	17.4	17.4	17.4
120°	32.9	31.0	29.0	27.1	23.2	21.3	17.4	15.5	15.5	15.5	13.6
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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°	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
2.5°	116.2	116.2	114.2	114.2	114.2	112.3	112.3	114.2	114.2	114.2	114.2
5°	123.9	122.0	118.1	114.2	112.3	110.3	108.4	108.4	112.3	112.3	112.3
7.5°	139.4	137.5	131.6	127.8	123.9	120.0	118.1	116.2	118.1	120.0	120.0
10°	154.9	152.9	145.2	139.4	137.5	133.6	131.6	129.7	131.6	131.6	131.6
12.5°	170.4	166.5	160.7	152.9	149.1	147.1	145.2	143.3	143.3	143.3	143.3
15°	183.9	178.1	172.3	166.5	162.6	158.7	156.8	154.9	156.8	158.7	158.7
17.5°	205.2	199.4	185.9	176.2	174.2	170.4	168.4	168.4	170.4	172.3	172.3
20°	228.4	216.8	201.3	191.7	189.7	183.9	182.0	182.0	183.9	185.9	185.9
22.5°	247.8	240.1	216.8	203.3	201.3	199.4	201.3	201.3	203.3	205.2	205.2
25°	315.6	284.6	251.7	242.0	240.1	236.2	232.3	230.4	232.3	238.1	240.1
27.5°	425.9	369.8	307.8	286.5	286.5	290.4	298.1	302.0	294.3	290.4	292.3
30°	499.5	424.0	334.9	315.6	319.4	338.8	356.2	367.8	360.1	354.3	356.2
32.5°	480.1	410.4	346.5	342.7	354.3	369.8	379.4	385.3	400.7	406.6	414.3
35°	437.5	385.3	350.4	365.9	373.6	373.6	373.6	373.6	402.7	429.8	437.5
37.5°	534.3	445.3	416.2	422.0	416.2	410.4	416.2	431.7	456.9	478.2	484.0
40°	627.3	515.0	466.6	462.7	460.8	480.1	515.0	542.1	549.8	530.5	534.3
42.5°	729.9	582.7	520.8	526.6	542.1	573.0	611.8	611.8	611.8	594.3	600.1
45°	826.7	662.1	625.3	640.8	640.8	656.3	677.6	664.0	681.5	689.2	698.9
47.5°	940.9	768.6	687.3	673.7	675.7	706.6	714.4	708.6	720.2	706.6	706.6
50°	975.7	786.0	722.1	774.4	774.4	739.5	710.5	714.4	747.3	784.1	791.8
52.5°	1241.0	973.8	915.7	969.9	993.1	933.1	933.1	940.9	948.6	975.7	983.5
55°	1856.6	1388.1	1213.8	1339.7	1357.1	1393.9	1494.6	1479.1	1390.0	1345.5	1341.6
57.5°	2776.2	2059.9	1512.0	1690.1	1802.4	1953.4	2028.9	1984.4	1864.3	1823.7	1779.1
60°	3548.6	2820.7	1959.2	2268.9	2437.4	2462.5	2435.4	2439.3	2348.3	2377.4	2365.7
62.5°	3835.1	3461.5	2518.7	2706.5	2731.6	2654.2	2725.8	2890.4	2743.3	2656.1	2642.6
65°	3920.3	3699.6	2675.5	2553.5	2530.3	2516.7	2799.4	3074.3	2745.2	2541.9	2540.0
67.5°	3835.1	3455.7	2476.1	2274.8	2329.0	2439.3	2807.1	2909.7	2600.0	2375.4	2359.9
70°	3724.8	3062.7	2228.3	2054.1	2179.9	2340.6	2574.8	2534.2	2412.2	2212.8	2203.1
72.5°	3324.0	2654.2	2069.5	1924.3	2067.6	2114.1	2230.2	2212.8	2247.7	2121.8	2116.0
75°	2975.6	2437.4	1974.7	1804.3	1874.0	1866.3	1959.2	1980.5	2079.2	2025.0	2003.7
77.5°	2567.1	2119.9	1740.4	1543.0	1570.1	1568.1	1612.7	1626.2	1695.9	1699.8	1676.5
80°	2009.5	1661.1	1359.0	1161.6	1165.4	1130.6	1136.4	1134.5	1148.0	1163.5	1142.2
82.5°	1153.8	927.3	770.5	644.7	617.6	571.1	561.4	565.3	559.5	555.6	555.6
85°	565.3	439.5	404.6	362.0	346.5	334.9	340.7	352.3	358.2	346.5	340.7
87.5°	381.4	329.1	313.6	296.2	288.5	276.8	284.6	294.3	302.0	292.3	290.4
90°	302.0	261.4	257.5	253.6	247.8	238.1	245.9	257.5	263.3	255.5	251.7
92.5°	243.9	211.0	211.0	209.1	203.3	195.5	205.2	214.9	220.7	214.9	213.0
95°	187.8	162.6	168.4	164.6	158.7	156.8	162.6	170.4	174.2	170.4	170.4
97.5°	145.2	127.8	133.6	131.6	123.9	122.0	125.8	131.6	135.5	131.6	129.7
100°	98.7	91.0	98.7	98.7	91.0	87.1	91.0	96.8	98.7	98.7	96.8
102.5°	65.8	62.0	71.6	73.6	69.7	65.8	67.8	71.6	73.6	73.6	73.6
105°	46.5	46.5	56.1	58.1	54.2	50.3	54.2	56.1	56.1	56.1	56.1
107.5°	36.8	38.7	44.5	48.4	44.5	40.7	42.6	44.5	44.5	44.5	46.5
110°	31.0	31.0	36.8	40.7	36.8	34.8	34.8	34.8	34.8	36.8	40.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	25.2	27.1	31.0	32.9	31.0	29.0	29.0	29.0	29.0	31.0	36.8
115°	21.3	23.2	27.1	27.1	25.2	25.2	25.2	23.2	23.2	25.2	34.8
117.5°	17.4	19.4	21.3	21.3	21.3	19.4	19.4	19.4	19.4	23.2	36.8
120°	15.5	15.5	17.4	17.4	15.5	15.5	15.5	15.5	13.6	19.4	29.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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)