

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: P588427

Luminaire Tested: **GAT-CA6-LED-130-730-U-33-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588427
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-130-730-U-33-5-6-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR
Light Source: (6) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11183 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B4 - U3 - G4

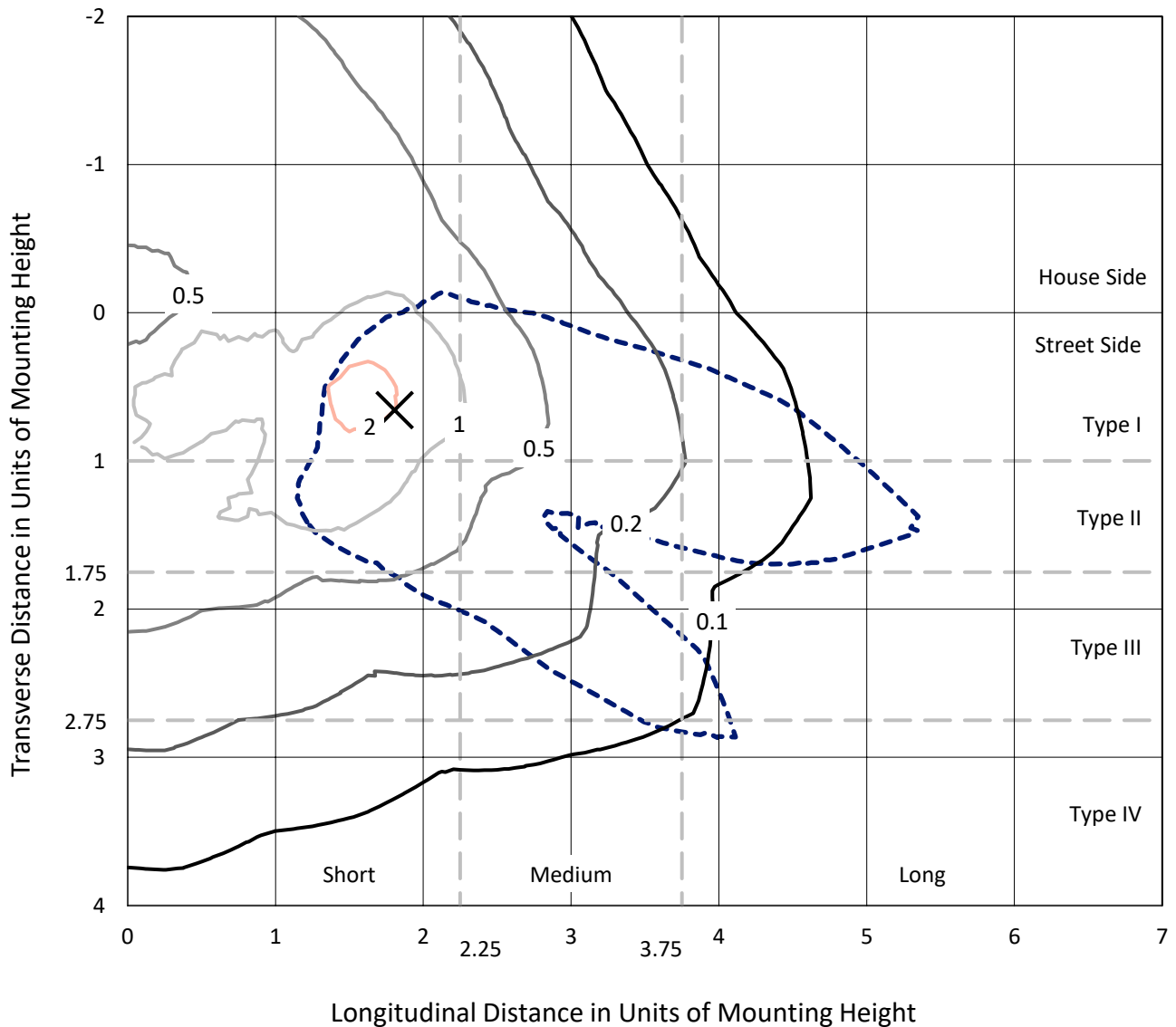
Input Watts (W): 124.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

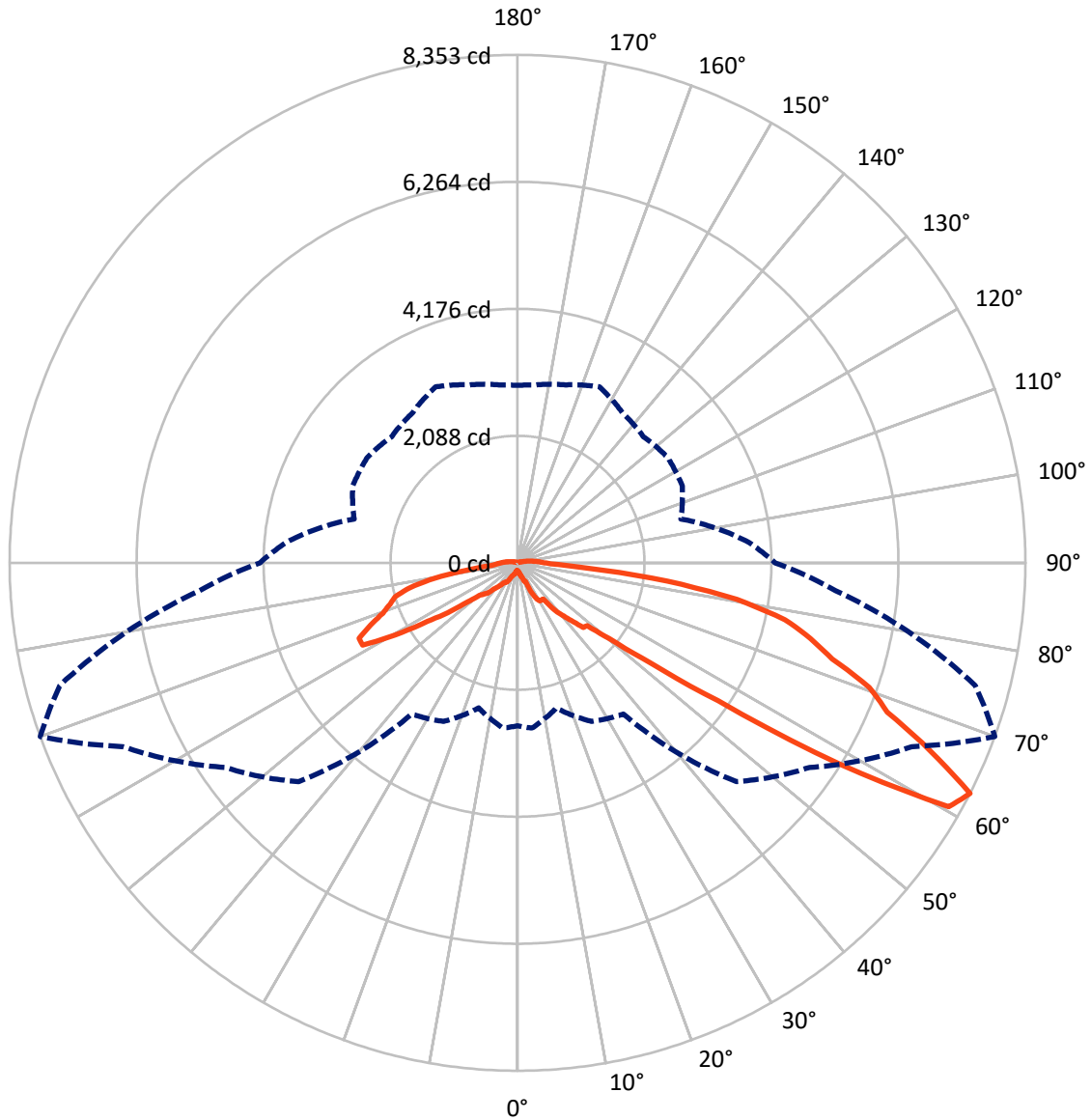
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.4 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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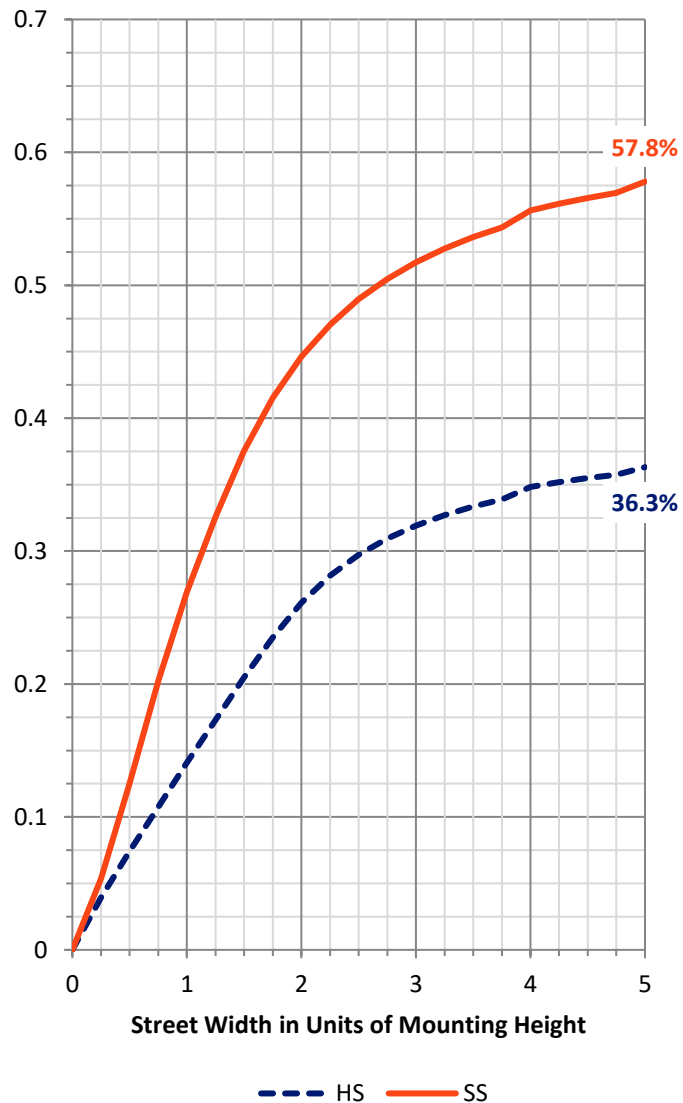
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4144.7	151.9	4296.6
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	6677.6	208.8	6886.4
	% Fixture	59.7	1.9	61.6
Total	Lumens	10822.3	360.7	11183.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.1	0.1
10°-20°	60.9	0.5
20°-30°	188.6	1.7
30°-40°	404.6	3.6
40°-50°	758.0	6.8
50°-60°	1967.0	17.6
60°-70°	3603.1	32.2
70°-80°	2890.1	25.8
80°-90°	935.8	8.4
90°-100°	246.6	2.2
100°-110°	80.2	0.7
110°-120°	31.4	0.3
120°-130°	2.5	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°	10822.3	96.8
0°-180°	11183.0	100.0

Coefficient of Utilization



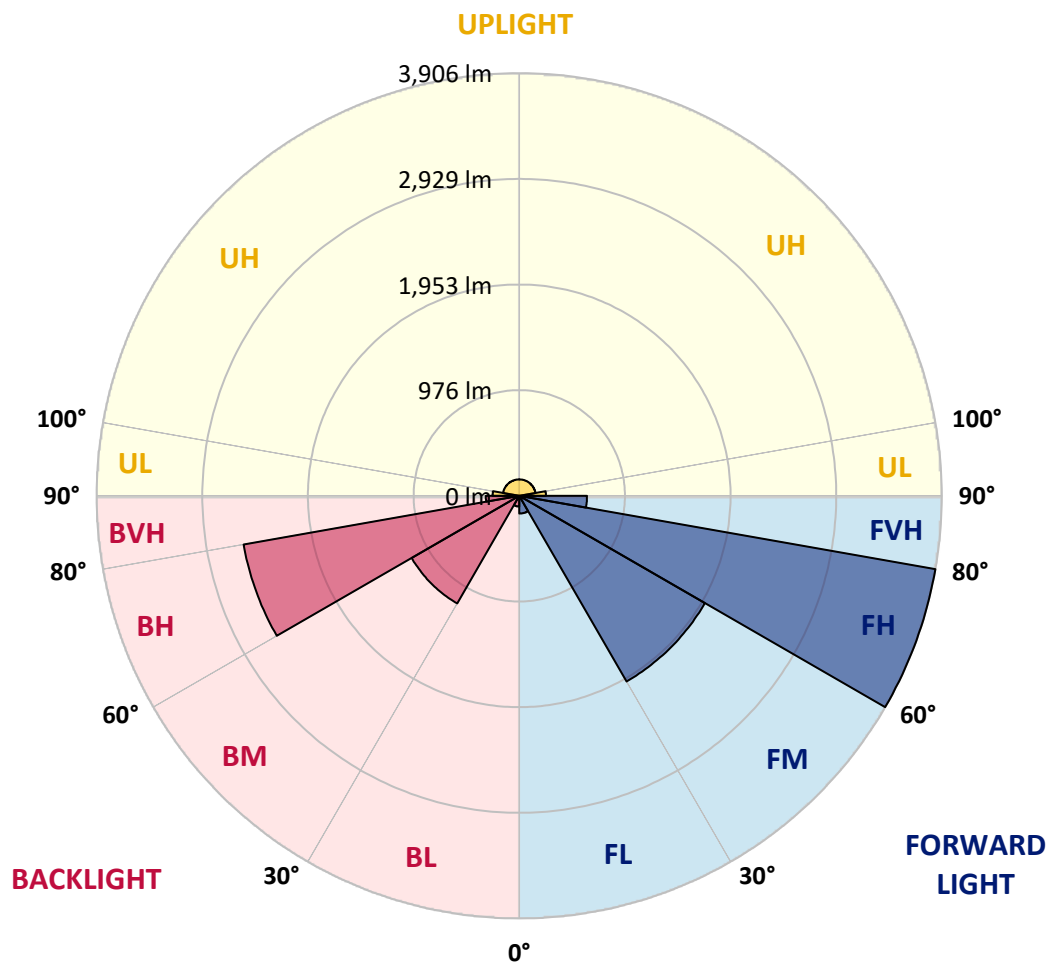
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	164.1	1.5			
FM (30°-60°)	1981.5	17.7			
FH (60°-80°)	3906.0	34.9			G2/5000
FVH (80°-90°)	626.1	5.6			G4/750
BL (0°-30°)	99.5	0.9	B0/110		
BM (30°-60°)	1148.1	10.3	B2/2500		
BH (60°-80°)	2587.3	23.1	B4/5000		G4/5000
BVH (80°-90°)	309.7	2.8			G3/500
UL (90°-100°)	246.6	2.2		U3/500	
UH (100°-180°)	151.9	1.4		U3/500	

BUG Rating: B4-U3-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5
2.5°	143.2	143.2	143.2	141.1	139.0	136.8	134.7	134.7	132.5	130.4	128.3
5°	156.1	153.9	151.8	147.5	145.4	145.4	143.2	143.2	143.2	141.1	139.0
7.5°	173.2	173.2	171.0	168.9	166.8	164.6	162.5	160.3	160.3	158.2	156.1
10°	196.7	196.7	196.7	194.5	194.5	192.4	188.1	186.0	181.7	179.6	173.2
12.5°	220.2	222.3	218.1	218.1	218.1	215.9	211.6	209.5	205.2	201.0	192.4
15°	243.7	241.6	239.4	237.3	241.6	241.6	239.4	239.4	230.9	224.5	209.5
17.5°	265.1	265.1	267.2	267.2	273.6	271.5	271.5	269.4	265.1	254.4	235.2
20°	299.3	301.4	301.4	301.4	322.8	331.4	333.5	335.6	329.2	307.8	269.4
22.5°	333.5	335.6	350.6	346.3	346.3	346.3	367.7	357.0	329.2	303.6	282.2
25°	451.1	457.5	461.8	476.7	493.8	540.9	615.7	592.2	549.4	461.8	389.1
27.5°	564.4	572.9	649.9	756.8	771.8	716.2	769.6	699.1	677.7	587.9	528.0
30°	615.7	630.7	763.2	835.9	861.5	788.9	865.8	731.1	724.7	660.6	609.3
32.5°	628.5	639.2	784.6	793.1	799.5	791.0	906.4	741.8	726.9	662.7	587.9
35°	609.3	622.1	720.5	671.3	673.4	825.2	1041.1	799.5	731.1	620.0	536.6
37.5°	750.4	750.4	833.8	846.6	902.2	1086.0	1363.9	1056.1	979.1	808.1	705.5
40°	855.1	865.8	998.4	1047.5	1056.1	1212.2	1708.1	1237.8	1128.8	904.3	825.2
42.5°	996.2	994.1	1115.9	1150.2	1173.7	1231.4	1746.6	1423.8	1295.5	1024.0	964.2
45°	1019.7	1054.0	1165.1	1126.6	1156.6	1304.1	1823.6	1686.8	1515.7	1250.6	1126.6
47.5°	925.7	972.7	1197.2	1165.1	1045.4	1113.8	1462.3	1731.6	1543.5	1284.8	1197.2
50°	998.4	1024.0	1135.2	1113.8	953.5	1184.4	1605.5	2169.9	1960.4	1528.6	1304.1
52.5°	1291.3	1346.8	1366.1	1449.5	1372.5	1772.3	2246.9	2749.3	2721.5	2212.7	1721.0
55°	1659.0	1740.2	1825.7	2142.1	2187.0	2783.5	3136.2	3672.8	4006.3	3499.6	2640.2
57.5°	2056.6	2172.0	2144.2	2603.9	2674.4	3771.1	4096.1	5353.1	6244.6	5556.2	3867.3
60°	2441.4	2518.4	2362.3	2766.4	2901.0	4748.1	5224.9	6971.5	8145.1	7411.9	4763.1
62.5°	2678.7	2727.9	2471.3	2877.5	3035.7	5088.0	5864.1	7153.2	8352.5	7794.5	5248.4
65°	2676.6	2663.7	2370.9	2723.6	2702.2	4696.8	5667.4	6011.6	7461.0	7367.0	5310.4
67.5°	2571.8	2576.1	2268.2	2548.3	2460.6	4141.0	5250.5	5085.9	6558.9	6685.0	5165.0
70°	2471.3	2522.6	2229.8	2473.5	2432.9	3982.8	5068.8	4577.1	6135.6	6375.0	5011.1
72.5°	2330.2	2379.4	2103.6	2317.4	2332.4	3666.4	4758.8	3995.6	5410.9	5699.5	4491.6
75°	2328.1	2390.1	2131.4	2319.6	2343.1	3486.8	4797.3	3794.7	4976.9	5363.8	4192.3
77.5°	2195.6	2251.1	2011.7	2187.0	2253.3	3155.4	4577.1	3544.5	4495.9	4929.8	3801.1
80°	1763.7	1838.5	1641.9	1757.3	1793.6	2366.6	3670.7	2903.2	3657.8	4091.8	3106.3
82.5°	1205.7	1274.1	1143.7	1229.3	1276.3	1552.1	2537.6	2090.8	2486.3	2751.4	1945.4
85°	696.9	778.2	701.2	690.5	714.0	818.8	1366.1	1111.7	1156.6	1216.4	863.7
87.5°	438.3	451.1	412.6	414.7	419.0	448.9	622.1	496.0	547.3	620.0	523.8
90°	348.5	361.3	333.5	335.6	329.2	357.0	466.0	378.4	421.2	485.3	414.7
92.5°	301.4	310.0	290.7	295.0	290.7	312.1	389.1	312.1	346.3	397.6	339.9
95°	256.5	263.0	252.3	254.4	241.6	254.4	303.6	237.3	263.0	299.3	254.4
97.5°	205.2	211.6	205.2	205.2	192.4	198.8	233.0	183.9	201.0	224.5	192.4
100°	162.5	164.6	162.5	160.3	149.6	149.6	162.5	132.5	139.0	153.9	132.5
102.5°	124.0	126.1	124.0	121.9	109.0	102.6	102.6	85.5	89.8	94.1	83.4
105°	98.3	100.5	98.3	94.1	83.4	77.0	74.8	62.0	62.0	64.1	57.7
107.5°	81.2	81.2	81.2	77.0	70.5	62.0	55.6	44.9	44.9	47.0	44.9
110°	66.3	66.3	64.1	62.0	55.6	49.2	42.8	36.3	36.3	36.3	34.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	55.6	55.6	53.4	51.3	44.9	38.5	34.2	29.9	29.9	29.9	27.8
115°	47.0	47.0	44.9	42.8	38.5	32.1	27.8	23.5	23.5	23.5	23.5
117.5°	40.6	40.6	38.5	36.3	32.1	27.8	23.5	19.2	19.2	19.2	19.2
120°	36.3	34.2	32.1	29.9	25.7	23.5	19.2	17.1	17.1	17.1	15.0
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5
2.5°	128.3	128.3	126.1	126.1	126.1	124.0	124.0	126.1	126.1	126.1	126.1
5°	136.8	134.7	130.4	126.1	124.0	121.9	119.7	119.7	124.0	124.0	124.0
7.5°	153.9	151.8	145.4	141.1	136.8	132.5	130.4	128.3	130.4	132.5	132.5
10°	171.0	168.9	160.3	153.9	151.8	147.5	145.4	143.2	145.4	145.4	145.4
12.5°	188.1	183.9	177.4	168.9	164.6	162.5	160.3	158.2	158.2	158.2	158.2
15°	203.1	196.7	190.3	183.9	179.6	175.3	173.2	171.0	173.2	175.3	175.3
17.5°	226.6	220.2	205.2	194.5	192.4	188.1	186.0	186.0	188.1	190.3	190.3
20°	252.3	239.4	222.3	211.6	209.5	203.1	201.0	201.0	203.1	205.2	205.2
22.5°	273.6	265.1	239.4	224.5	222.3	220.2	222.3	222.3	224.5	226.6	226.6
25°	348.5	314.3	277.9	267.2	265.1	260.8	256.5	254.4	256.5	263.0	265.1
27.5°	470.3	408.3	339.9	316.4	316.4	320.7	329.2	333.5	325.0	320.7	322.8
30°	551.6	468.2	369.8	348.5	352.7	374.1	393.4	406.2	397.6	391.2	393.4
32.5°	530.2	453.2	382.7	378.4	391.2	408.3	419.0	425.4	442.5	448.9	457.5
35°	483.2	425.4	386.9	404.1	412.6	412.6	412.6	412.6	444.7	474.6	483.2
37.5°	590.0	491.7	459.6	466.0	459.6	453.2	459.6	476.7	504.5	528.0	534.5
40°	692.7	568.7	515.2	510.9	508.8	530.2	568.7	598.6	607.1	585.8	590.0
42.5°	806.0	643.5	575.1	581.5	598.6	632.8	675.6	675.6	675.6	656.3	662.7
45°	912.9	731.1	690.5	707.6	707.6	724.7	748.2	733.3	752.5	761.1	771.8
47.5°	1039.0	848.7	758.9	744.0	746.1	780.3	788.9	782.4	795.3	780.3	780.3
50°	1077.5	868.0	797.4	855.1	855.1	816.7	784.6	788.9	825.2	865.8	874.4
52.5°	1370.4	1075.3	1011.2	1071.1	1096.7	1030.4	1030.4	1039.0	1047.5	1077.5	1086.0
55°	2050.2	1532.8	1340.4	1479.4	1498.6	1539.2	1650.4	1633.3	1535.0	1485.8	1481.5
57.5°	3065.7	2274.7	1669.6	1866.3	1990.3	2157.1	2240.5	2191.3	2058.7	2013.8	1964.7
60°	3918.7	3114.8	2163.5	2505.5	2691.5	2719.3	2689.4	2693.7	2593.2	2625.3	2612.4
62.5°	4235.0	3822.4	2781.3	2988.7	3016.5	2931.0	3010.1	3191.8	3029.3	2933.1	2918.1
65°	4329.1	4085.4	2954.5	2819.8	2794.1	2779.2	3091.3	3394.9	3031.4	2807.0	2804.8
67.5°	4235.0	3816.0	2734.3	2512.0	2571.8	2693.7	3099.9	3213.2	2871.1	2623.1	2606.0
70°	4113.2	3382.1	2460.6	2268.2	2407.2	2584.6	2843.3	2798.4	2663.7	2443.5	2432.9
72.5°	3670.7	2931.0	2285.3	2125.0	2283.2	2334.5	2462.8	2443.5	2482.0	2343.1	2336.7
75°	3285.9	2691.5	2180.6	1992.5	2069.4	2060.9	2163.5	2187.0	2296.0	2236.2	2212.7
77.5°	2834.8	2340.9	1921.9	1703.9	1733.8	1731.6	1780.8	1795.8	1872.7	1877.0	1851.4
80°	2219.1	1834.3	1500.8	1282.7	1287.0	1248.5	1254.9	1252.8	1267.7	1284.8	1261.3
82.5°	1274.1	1024.0	850.9	711.9	682.0	630.7	620.0	624.2	617.8	613.6	613.6
85°	624.2	485.3	446.8	399.8	382.7	369.8	376.3	389.1	395.5	382.7	376.3
87.5°	421.2	363.4	346.3	327.1	318.5	305.7	314.3	325.0	333.5	322.8	320.7
90°	333.5	288.6	284.3	280.1	273.6	263.0	271.5	284.3	290.7	282.2	277.9
92.5°	269.4	233.0	233.0	230.9	224.5	215.9	226.6	237.3	243.7	237.3	235.2
95°	207.4	179.6	186.0	181.7	175.3	173.2	179.6	188.1	192.4	188.1	188.1
97.5°	160.3	141.1	147.5	145.4	136.8	134.7	139.0	145.4	149.6	145.4	143.2
100°	109.0	100.5	109.0	109.0	100.5	96.2	100.5	106.9	109.0	109.0	106.9
102.5°	72.7	68.4	79.1	81.2	77.0	72.7	74.8	79.1	81.2	81.2	81.2
105°	51.3	51.3	62.0	64.1	59.9	55.6	59.9	62.0	62.0	62.0	62.0
107.5°	40.6	42.8	49.2	53.4	49.2	44.9	47.0	49.2	49.2	49.2	51.3
110°	34.2	34.2	40.6	44.9	40.6	38.5	38.5	38.5	38.5	40.6	44.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	27.8	29.9	34.2	36.3	34.2	32.1	32.1	32.1	32.1	34.2	40.6
115°	23.5	25.7	29.9	29.9	27.8	27.8	27.8	25.7	25.7	27.8	38.5
117.5°	19.2	21.4	23.5	23.5	23.5	21.4	21.4	21.4	21.4	25.7	40.6
120°	17.1	17.1	19.2	19.2	17.1	17.1	17.1	17.1	15.0	21.4	32.1
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)