

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: P588363

Luminaire Tested: **GAT-CA6-LED-100-750-U-33-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588363
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-100-750-U-33-5-6-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR
Light Source: (6) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9722 lumens
Efficiency: N/A
Efficacy: 93.8 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

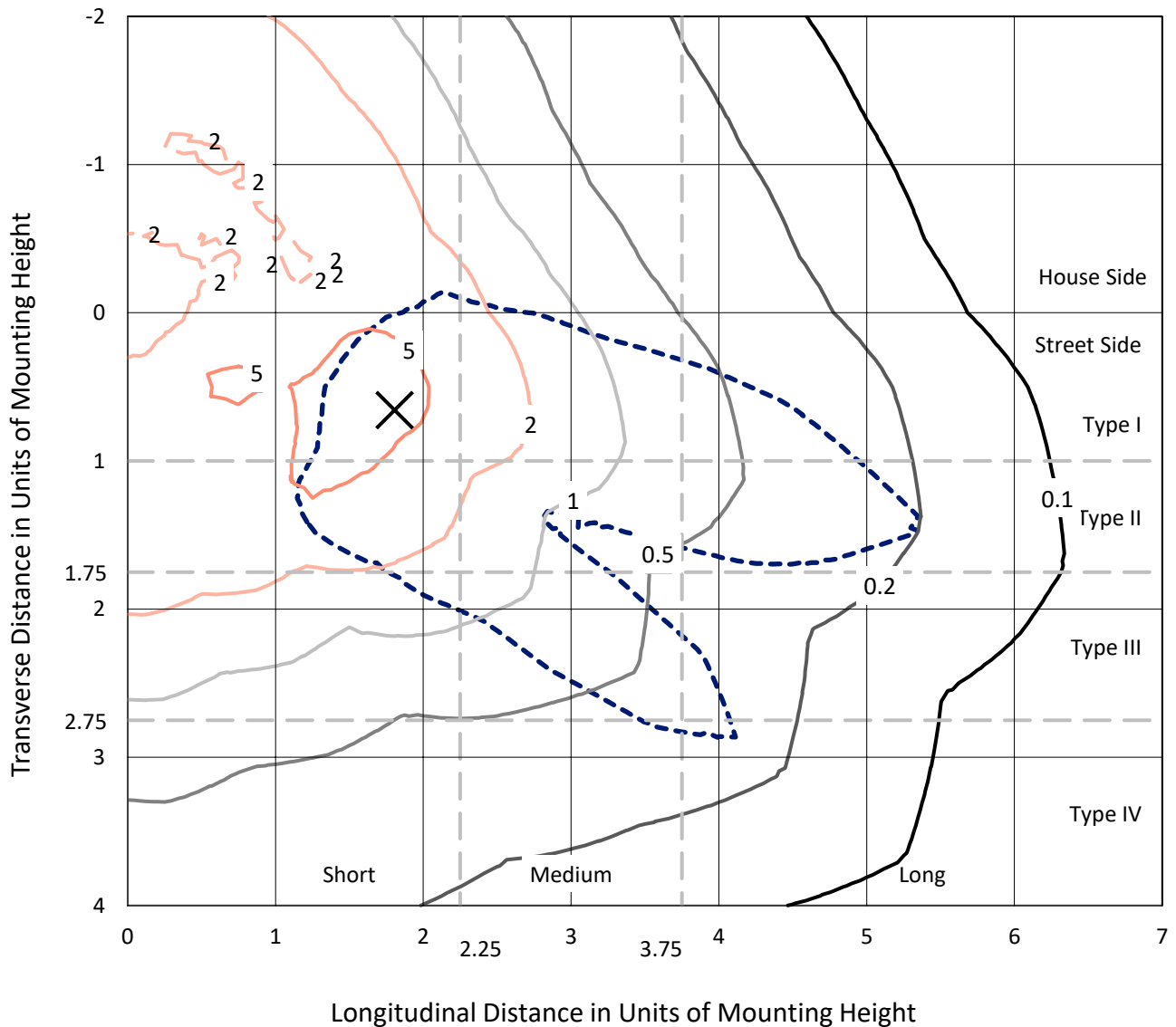
Input Watts (W): 103.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

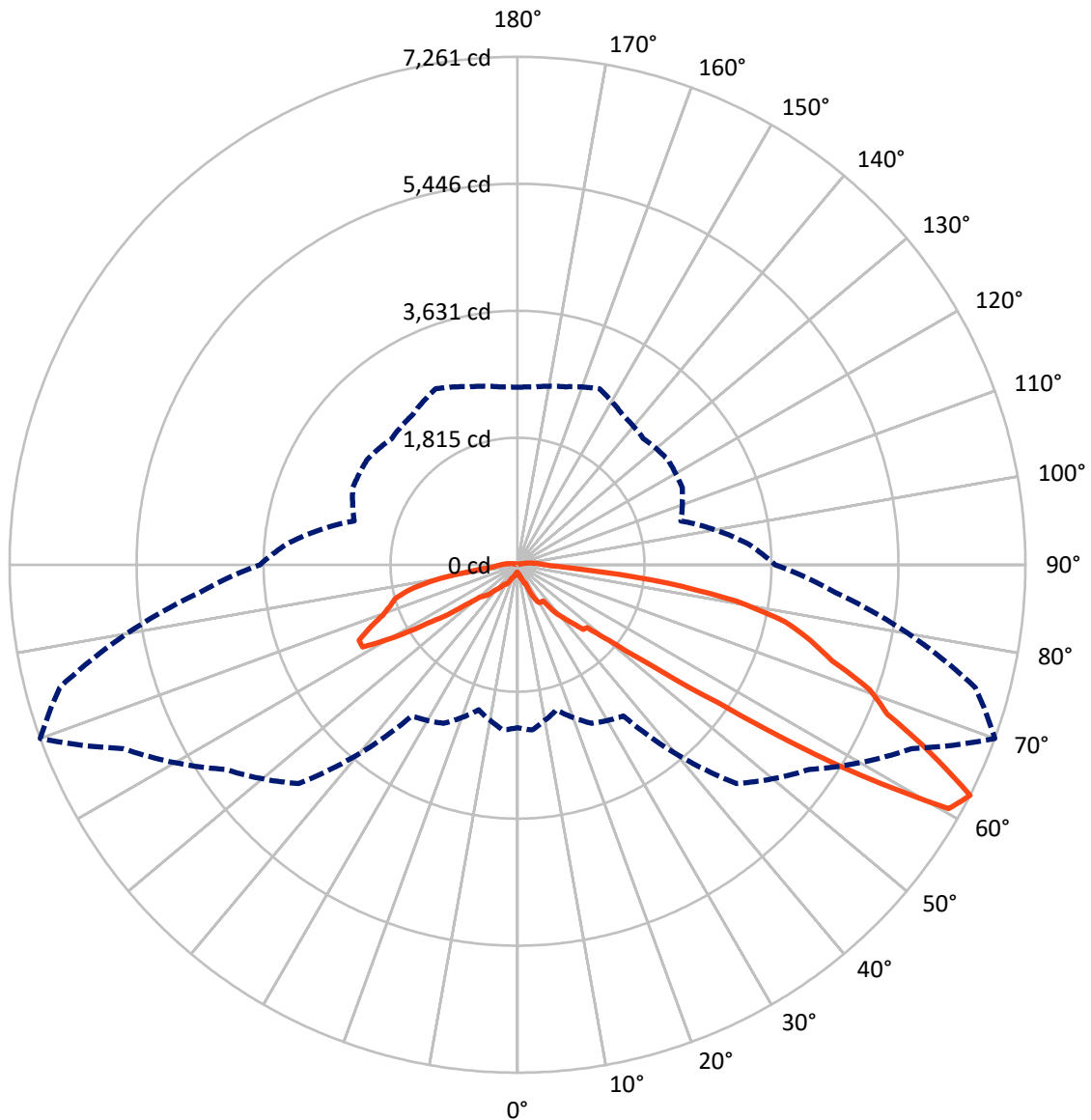
× Max cd
- - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 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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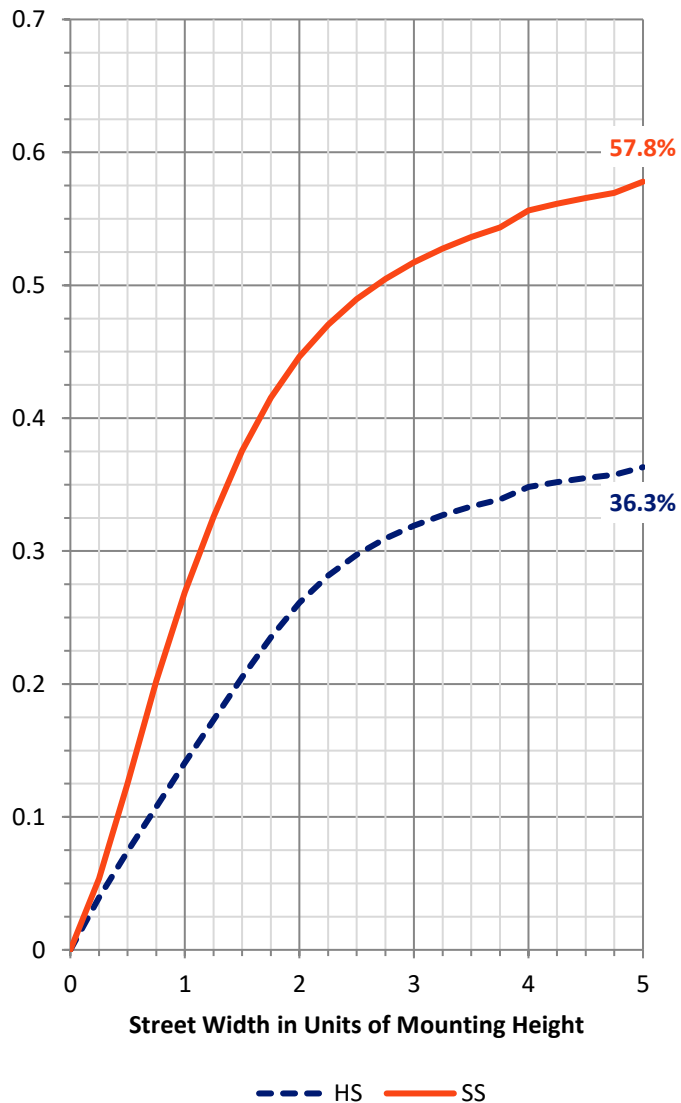
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3603.2	132.1	3735.3
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	5805.2	181.5	5986.7
	% Fixture	59.7	1.9	61.6
Total	Lumens	9408.4	313.6	9722.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.3	0.1
10°-20°	52.9	0.5
20°-30°	164.0	1.7
30°-40°	351.7	3.6
40°-50°	659.0	6.8
50°-60°	1710.0	17.6
60°-70°	3132.4	32.2
70°-80°	2512.5	25.8
80°-90°	813.6	8.4
90°-100°	214.4	2.2
100°-110°	69.7	0.7
110°-120°	27.3	0.3
120°-130°	2.1	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°	9408.4	96.8
0°-180°	9722.0	100.0

Coefficient of Utilization



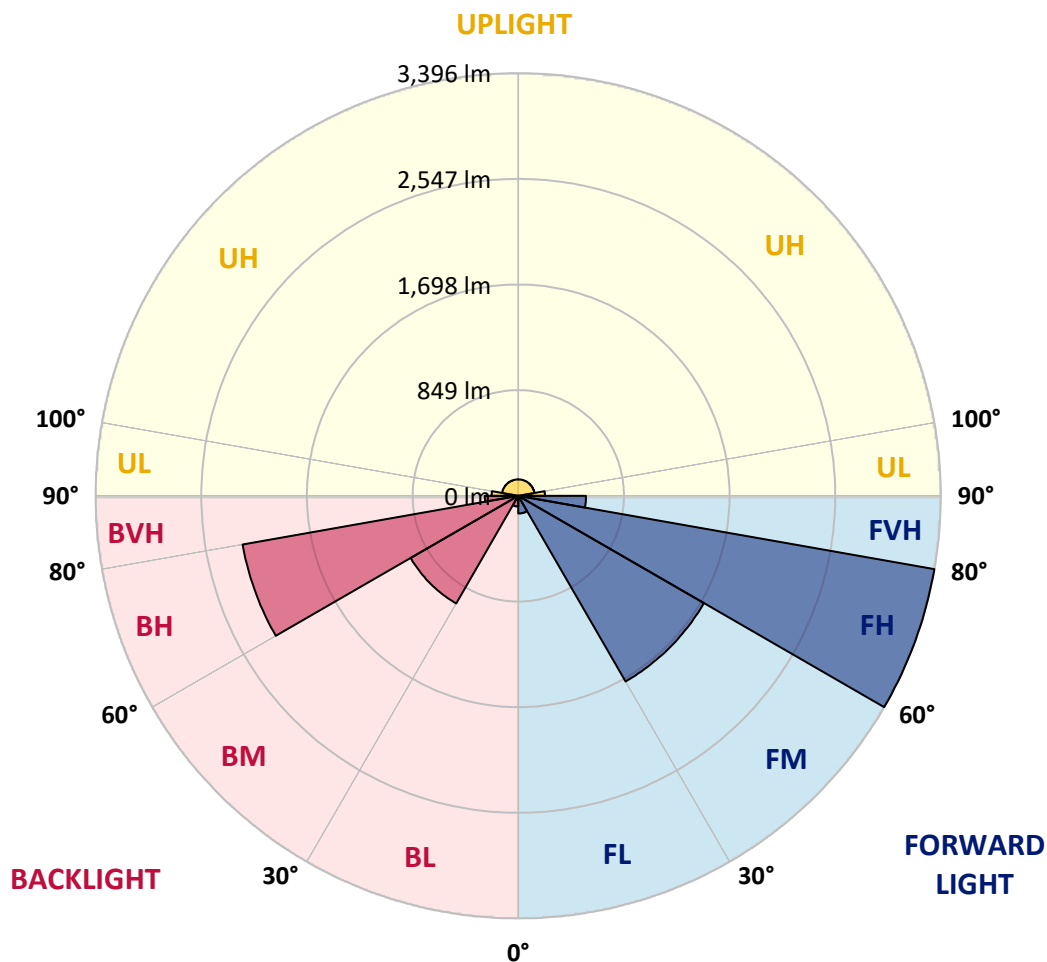
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	142.6	1.5			
FM (30°-60°)	1722.6	17.7			
FH (60°-80°)	3395.7	34.9			G2/5000
FVH (80°-90°)	544.3	5.6			G4/750
BL (0°-30°)	86.5	0.9	B0/110		
BM (30°-60°)	998.1	10.3	B1/1000		
BH (60°-80°)	2249.3	23.1	B3/2500		G3/2500
BVH (80°-90°)	269.3	2.8			G3/500
UL (90°-100°)	214.4	2.2		U3/500	
UH (100°-180°)	132.1	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°	115.2	115.2	115.2	115.2	115.2	115.2	115.2	115.2	115.2	115.2	115.2
2.5°	124.5	124.5	124.5	122.7	120.8	118.9	117.1	117.1	115.2	113.4	111.5
5°	135.7	133.8	132.0	128.2	126.4	126.4	124.5	124.5	124.5	122.7	120.8
7.5°	150.5	150.5	148.7	146.8	145.0	143.1	141.2	139.4	139.4	137.5	135.7
10°	171.0	171.0	171.0	169.1	169.1	167.3	163.6	161.7	158.0	156.1	150.5
12.5°	191.4	193.3	189.6	189.6	189.6	187.7	184.0	182.1	178.4	174.7	167.3
15°	211.9	210.0	208.2	206.3	210.0	210.0	208.2	208.2	200.7	195.1	182.1
17.5°	230.5	230.5	232.3	232.3	237.9	236.0	236.0	234.2	230.5	221.2	204.4
20°	260.2	262.1	262.1	262.1	280.6	288.1	289.9	291.8	286.2	267.6	234.2
22.5°	289.9	291.8	304.8	301.1	301.1	301.1	319.7	310.4	286.2	263.9	245.3
25°	392.2	397.7	401.4	414.5	429.3	470.2	535.3	514.8	477.6	401.4	338.3
27.5°	490.7	498.1	565.0	657.9	670.9	622.6	669.1	607.7	589.2	511.1	459.1
30°	535.3	548.3	663.5	726.7	749.0	685.8	752.7	635.6	630.0	574.3	529.7
32.5°	546.4	555.7	682.1	689.5	695.1	687.7	788.0	644.9	631.9	576.1	511.1
35°	529.7	540.8	626.3	583.6	585.4	717.4	905.1	695.1	635.6	539.0	466.5
37.5°	652.3	652.3	724.8	736.0	784.3	944.1	1185.7	918.1	851.2	702.5	613.3
40°	743.4	752.7	867.9	910.7	918.1	1053.8	1485.0	1076.1	981.3	786.2	717.4
42.5°	866.1	864.2	970.2	999.9	1020.3	1070.5	1518.4	1237.8	1126.3	890.2	838.2
45°	886.5	916.3	1012.9	979.4	1005.5	1133.7	1585.3	1466.4	1317.7	1087.2	979.4
47.5°	804.7	845.6	1040.8	1012.9	908.8	968.3	1271.2	1505.4	1341.9	1117.0	1040.8
50°	867.9	890.2	986.9	968.3	828.9	1029.6	1395.8	1886.4	1704.3	1328.9	1133.7
52.5°	1122.6	1170.9	1187.6	1260.1	1193.2	1540.7	1953.3	2390.1	2365.9	1923.6	1496.1
55°	1442.2	1512.8	1587.2	1862.3	1901.3	2419.8	2726.5	3193.0	3482.9	3042.4	2295.3
57.5°	1787.9	1888.3	1864.1	2263.7	2325.0	3278.5	3561.0	4653.8	5428.8	4830.3	3362.1
60°	2122.4	2189.4	2053.7	2404.9	2522.0	4127.8	4542.3	6060.7	7081.0	6443.5	4140.8
62.5°	2328.7	2371.5	2148.5	2501.6	2639.1	4423.3	5098.0	6218.7	7261.3	6776.2	4562.7
65°	2326.9	2315.7	2061.1	2367.8	2349.2	4083.2	4927.0	5226.2	6486.3	6404.5	4616.6
67.5°	2235.8	2239.5	1971.9	2215.4	2139.2	3600.0	4564.6	4421.5	5702.0	5811.6	4490.2
70°	2148.5	2193.1	1938.5	2150.3	2115.0	3462.5	4406.6	3979.1	5334.0	5542.2	4356.4
72.5°	2025.8	2068.6	1828.8	2014.7	2027.7	3187.4	4137.1	3473.6	4704.0	4954.9	3904.8
75°	2023.9	2077.8	1853.0	2016.5	2037.0	3031.3	4170.6	3298.9	4326.7	4663.1	3644.6
77.5°	1908.7	1957.0	1748.9	1901.3	1958.9	2743.2	3979.1	3081.5	3908.5	4285.8	3304.5
80°	1533.3	1598.3	1427.4	1527.7	1559.3	2057.4	3191.1	2523.9	3180.0	3557.2	2700.5
82.5°	1048.2	1107.7	994.3	1068.7	1109.5	1349.3	2206.1	1817.6	2161.5	2391.9	1691.3
85°	605.9	676.5	609.6	600.3	620.8	711.8	1187.6	966.4	1005.5	1057.5	750.8
87.5°	381.0	392.2	358.7	360.6	364.3	390.3	540.8	431.2	475.8	539.0	455.3
90°	302.9	314.1	289.9	291.8	286.2	310.4	405.2	329.0	366.1	421.9	360.6
92.5°	262.1	269.5	252.8	256.5	252.8	271.3	338.3	271.3	301.1	345.7	295.5
95°	223.0	228.6	219.3	221.2	210.0	221.2	263.9	206.3	228.6	260.2	221.2
97.5°	178.4	184.0	178.4	178.4	167.3	172.8	202.6	159.8	174.7	195.1	167.3
100°	141.2	143.1	141.2	139.4	130.1	130.1	141.2	115.2	120.8	133.8	115.2
102.5°	107.8	109.7	107.8	105.9	94.8	89.2	89.2	74.3	78.1	81.8	72.5
105°	85.5	87.4	85.5	81.8	72.5	66.9	65.0	53.9	53.9	55.8	50.2
107.5°	70.6	70.6	70.6	66.9	61.3	53.9	48.3	39.0	39.0	40.9	39.0
110°	57.6	57.6	55.8	53.9	48.3	42.7	37.2	31.6	31.6	31.6	29.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	48.3	48.3	46.5	44.6	39.0	33.5	29.7	26.0	26.0	26.0	24.2
115°	40.9	40.9	39.0	37.2	33.5	27.9	24.2	20.4	20.4	20.4	20.4
117.5°	35.3	35.3	33.5	31.6	27.9	24.2	20.4	16.7	16.7	16.7	16.7
120°	31.6	29.7	27.9	26.0	22.3	20.4	16.7	14.9	14.9	14.9	13.0
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°	115.2	115.2	115.2	115.2	115.2	115.2	115.2	115.2	115.2	115.2	115.2
2.5°	111.5	111.5	109.7	109.7	109.7	107.8	107.8	109.7	109.7	109.7	109.7
5°	118.9	117.1	113.4	109.7	107.8	105.9	104.1	104.1	107.8	107.8	107.8
7.5°	133.8	132.0	126.4	122.7	118.9	115.2	113.4	111.5	113.4	115.2	115.2
10°	148.7	146.8	139.4	133.8	132.0	128.2	126.4	124.5	126.4	126.4	126.4
12.5°	163.6	159.8	154.3	146.8	143.1	141.2	139.4	137.5	137.5	137.5	137.5
15°	176.6	171.0	165.4	159.8	156.1	152.4	150.5	148.7	150.5	152.4	152.4
17.5°	197.0	191.4	178.4	169.1	167.3	163.6	161.7	161.7	163.6	165.4	165.4
20°	219.3	208.2	193.3	184.0	182.1	176.6	174.7	174.7	176.6	178.4	178.4
22.5°	237.9	230.5	208.2	195.1	193.3	191.4	193.3	193.3	195.1	197.0	197.0
25°	302.9	273.2	241.6	232.3	230.5	226.7	223.0	221.2	223.0	228.6	230.5
27.5°	408.9	355.0	295.5	275.1	275.1	278.8	286.2	289.9	282.5	278.8	280.6
30°	479.5	407.0	321.5	302.9	306.7	325.2	342.0	353.1	345.7	340.1	342.0
32.5°	460.9	394.0	332.7	329.0	340.1	355.0	364.3	369.8	384.7	390.3	397.7
35°	420.0	369.8	336.4	351.3	358.7	358.7	358.7	358.7	386.6	412.6	420.0
37.5°	513.0	427.5	399.6	405.2	399.6	394.0	399.6	414.5	438.6	459.1	464.6
40°	602.2	494.4	447.9	444.2	442.3	460.9	494.4	520.4	527.8	509.2	513.0
42.5°	700.7	559.4	499.9	505.5	520.4	550.1	587.3	587.3	587.3	570.6	576.1
45°	793.6	635.6	600.3	615.2	615.2	630.0	650.5	637.5	654.2	661.6	670.9
47.5°	903.2	737.8	659.8	646.8	648.6	678.4	685.8	680.2	691.4	678.4	678.4
50°	936.7	754.6	693.2	743.4	743.4	710.0	682.1	685.8	717.4	752.7	760.1
52.5°	1191.3	934.8	879.1	931.1	953.4	895.8	895.8	903.2	910.7	936.7	944.1
55°	1782.3	1332.6	1165.3	1286.1	1302.8	1338.1	1434.8	1419.9	1334.4	1291.7	1288.0
57.5°	2665.1	1977.5	1451.5	1622.5	1730.3	1875.3	1947.7	1905.0	1789.8	1750.7	1708.0
60°	3406.7	2707.9	1880.8	2178.2	2339.9	2364.1	2338.0	2341.8	2254.4	2282.3	2271.1
62.5°	3681.8	3323.1	2418.0	2598.2	2622.4	2548.1	2616.8	2774.8	2633.5	2549.9	2536.9
65°	3763.5	3551.7	2568.5	2451.4	2429.1	2416.1	2687.4	2951.4	2635.4	2440.3	2438.4
67.5°	3681.8	3317.5	2377.1	2183.8	2235.8	2341.8	2694.9	2793.4	2496.0	2280.4	2265.6
70°	3575.8	2940.2	2139.2	1971.9	2092.7	2247.0	2471.9	2432.8	2315.7	2124.3	2115.0
72.5°	3191.1	2548.1	1986.8	1847.4	1984.9	2029.5	2141.0	2124.3	2157.8	2037.0	2031.4
75°	2856.6	2339.9	1895.7	1732.2	1799.1	1791.6	1880.8	1901.3	1996.1	1944.0	1923.6
77.5°	2464.4	2035.1	1670.8	1481.3	1507.3	1505.4	1548.2	1561.2	1628.1	1631.8	1609.5
80°	1929.2	1594.6	1304.7	1115.1	1118.8	1085.4	1091.0	1089.1	1102.1	1117.0	1096.5
82.5°	1107.7	890.2	739.7	618.9	592.9	548.3	539.0	542.7	537.1	533.4	533.4
85°	542.7	421.9	388.4	347.5	332.7	321.5	327.1	338.3	343.8	332.7	327.1
87.5°	366.1	316.0	301.1	284.4	276.9	265.8	273.2	282.5	289.9	280.6	278.8
90°	289.9	250.9	247.2	243.5	237.9	228.6	236.0	247.2	252.8	245.3	241.6
92.5°	234.2	202.6	202.6	200.7	195.1	187.7	197.0	206.3	211.9	206.3	204.4
95°	180.3	156.1	161.7	158.0	152.4	150.5	156.1	163.6	167.3	163.6	163.6
97.5°	139.4	122.7	128.2	126.4	118.9	117.1	120.8	126.4	130.1	126.4	124.5
100°	94.8	87.4	94.8	94.8	87.4	83.6	87.4	92.9	94.8	94.8	92.9
102.5°	63.2	59.5	68.8	70.6	66.9	63.2	65.0	68.8	70.6	70.6	70.6
105°	44.6	44.6	53.9	55.8	52.0	48.3	52.0	53.9	53.9	53.9	53.9
107.5°	35.3	37.2	42.7	46.5	42.7	39.0	40.9	42.7	42.7	42.7	44.6
110°	29.7	29.7	35.3	39.0	35.3	33.5	33.5	33.5	33.5	35.3	39.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	24.2	26.0	29.7	31.6	29.7	27.9	27.9	27.9	27.9	29.7	35.3
115°	20.4	22.3	26.0	26.0	24.2	24.2	24.2	22.3	22.3	24.2	33.5
117.5°	16.7	18.6	20.4	20.4	20.4	18.6	18.6	18.6	18.6	22.3	35.3
120°	14.9	14.9	16.7	16.7	14.9	14.9	14.9	14.9	13.0	18.6	27.9
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)