

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P588612

Luminaire Tested: **GAT-CA6-LED-80-722-U-33-5-X-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2109-372-13)
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-80-722-U-33-5-X-X-GHSS
Description: GENERATIONS SERIES AVENUE WITH NO CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD
Light Source: (3) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4806 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.08')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U3 - G4

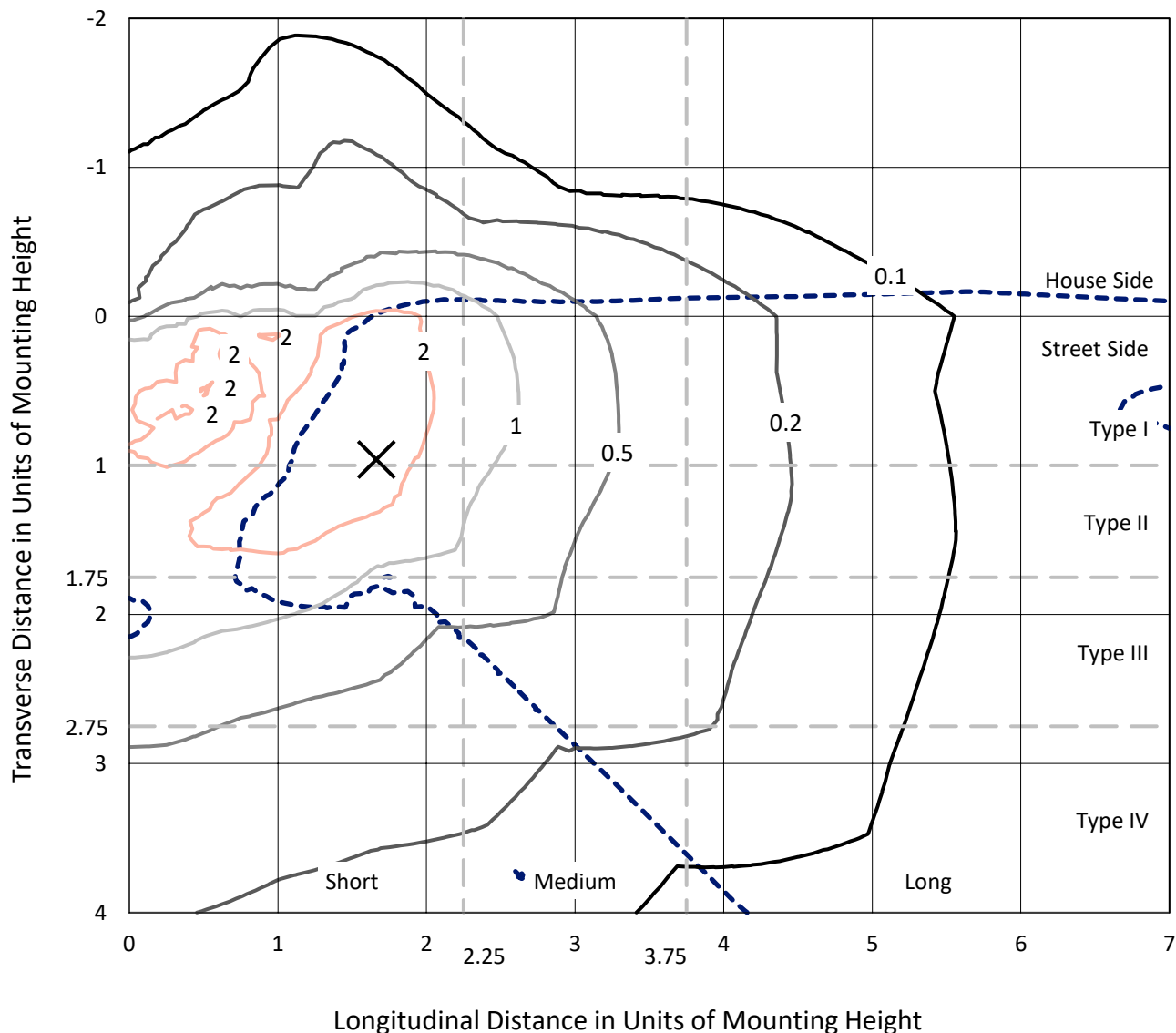
Input Watts (W): 42.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - Non-Cutoff

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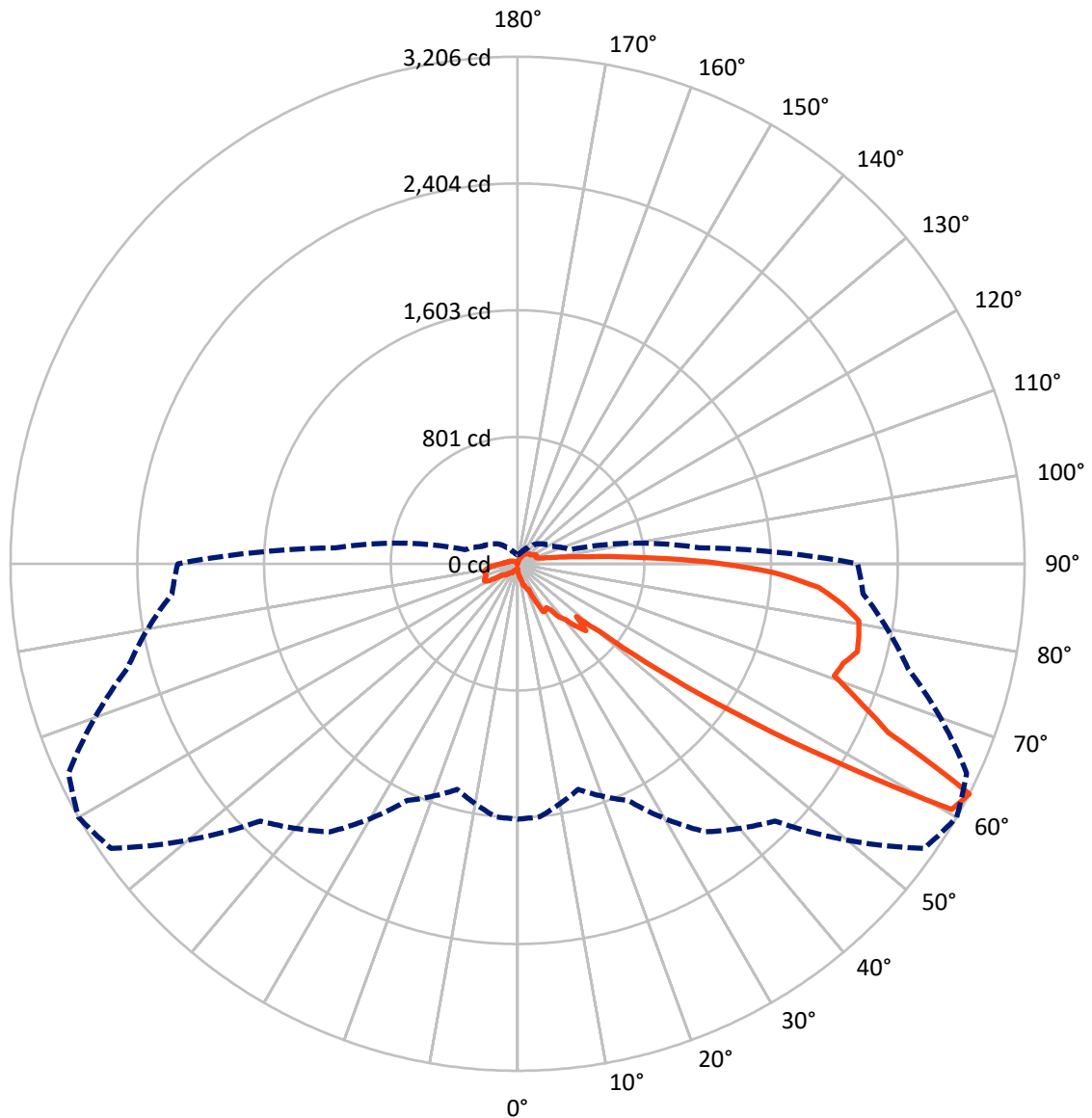
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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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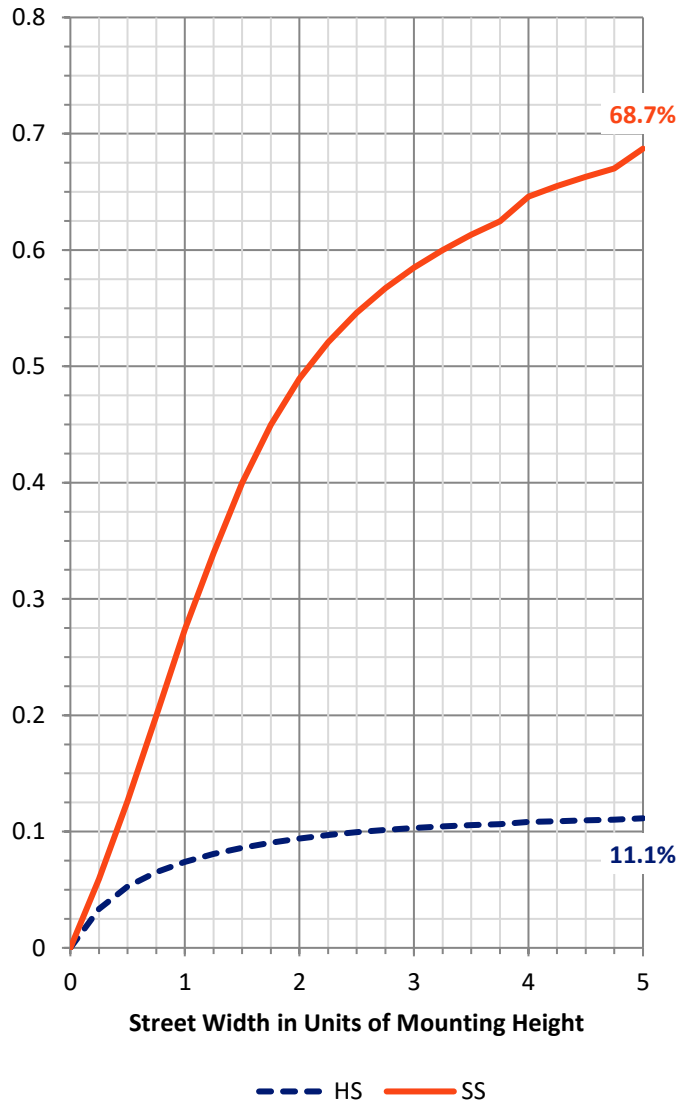
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	563.8	112.4	676.2
	% Fixture	11.7	2.3	14.1
Street Side	Lumens	3671.1	458.7	4129.8
	% Fixture	76.4	9.5	85.9
Total	Lumens	4234.9	571.1	4806.0
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.1
10°-20°	23.1	0.5
20°-30°	68.7	1.4
30°-40°	138.1	2.9
40°-50°	243.0	5.1
50°-60°	671.0	14.0
60°-70°	1160.1	24.1
70°-80°	1076.8	22.4
80°-90°	849.1	17.7
90°-100°	269.4	5.6
100°-110°	96.1	2.0
110°-120°	79.0	1.6
120°-130°	51.9	1.1
130°-140°	37.0	0.8
140°-150°	23.9	0.5
150°-160°	11.0	0.2
160°-170°	2.7	0.1
170°-180°	0.1	0.0
0°-90°	4234.9	88.1
0°-180°	4806.0	100.0

Coefficient of Utilization



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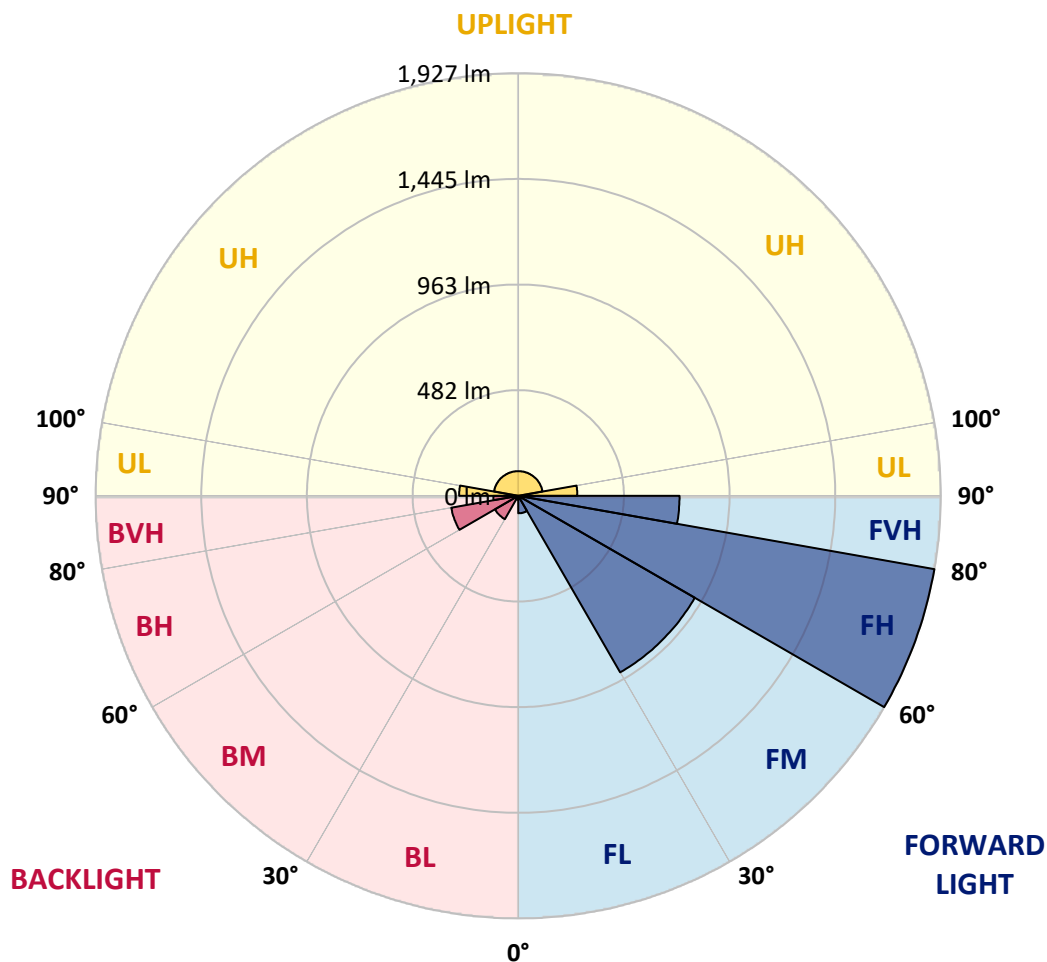
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	79.8	1.7			
FM (30°-60°)	929.3	19.3			
FH (60°-80°)	1926.8	40.1			G2/5000
FVH (80°-90°)	735.2	15.3			G4/750
BL (0°-30°)	17.1	0.4	B0/110		
BM (30°-60°)	122.8	2.6	B0/220		
BH (60°-80°)	310.1	6.5	B1/500		G1/500
BVH (80°-90°)	113.9	2.4			G2/225
UL (90°-100°)	269.4	5.6		U3/500	
UH (100°-180°)	112.4	2.3		U3/500	

BUG Rating: B1-U3-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
2.5°	57.0	55.5	56.2	56.2	57.0	54.0	51.0	48.8	46.6	43.6	39.9
5°	81.4	79.9	77.7	76.9	75.4	72.5	68.0	66.6	62.1	56.2	48.8
7.5°	99.1	98.4	97.6	95.4	93.9	89.5	84.3	82.1	76.9	68.8	59.9
10°	112.4	112.4	113.2	109.5	102.8	99.1	94.7	93.2	89.5	78.4	67.3
12.5°	123.5	122.0	116.1	113.2	110.2	110.9	111.7	110.9	109.5	91.0	75.4
15°	133.9	132.4	128.0	124.3	122.0	129.4	145.7	144.2	143.5	114.6	88.0
17.5°	141.3	141.3	145.7	148.7	152.4	141.3	138.3	142.7	147.9	126.5	99.8
20°	162.7	159.8	156.1	153.1	171.6	163.5	166.4	171.6	175.3	141.3	109.5
22.5°	153.1	153.8	170.1	176.0	167.2	162.7	173.1	175.3	176.0	162.0	113.9
25°	209.3	199.7	193.8	212.3	210.8	243.3	252.9	259.6	259.6	219.7	159.0
27.5°	289.2	289.2	314.3	363.2	355.0	355.8	344.7	343.9	358.0	371.3	241.9
30°	313.6	321.7	392.0	416.4	443.0	409.7	373.5	345.4	351.3	423.1	281.8
32.5°	321.0	328.4	413.4	386.8	396.4	383.1	388.3	331.3	317.3	389.8	274.4
35°	280.3	290.7	360.2	326.2	307.7	347.6	395.7	355.0	348.4	320.3	248.5
37.5°	374.2	379.4	403.8	398.7	404.6	406.8	464.5	427.5	434.9	386.8	314.3
40°	429.7	423.8	519.2	542.1	533.3	525.1	520.0	463.0	471.9	448.2	425.3
42.5°	528.1	521.4	588.7	602.8	605.0	583.6	608.0	536.2	514.0	465.2	529.6
45°	534.7	538.4	602.1	565.8	603.5	642.7	687.1	604.3	564.3	482.2	615.4
47.5°	473.4	489.6	629.4	597.6	560.6	525.9	542.9	500.7	468.2	381.6	591.7
50°	483.0	489.6	579.1	541.4	450.4	557.7	707.1	676.8	641.3	473.4	570.2
52.5°	683.4	680.4	719.6	721.9	744.8	837.2	1132.4	1108.0	1113.9	921.6	849.1
55°	937.1	935.6	1034.7	1193.0	1323.9	1369.0	1754.4	1658.2	1614.6	1428.2	1499.2
57.5°	1211.5	1224.1	1267.7	1489.6	1713.7	1772.1	2375.7	2326.1	2230.0	1863.1	2052.4
60°	1500.7	1493.3	1428.9	1574.6	1933.4	2224.8	3130.1	3153.7	2962.2	2345.3	2240.3
62.5°	1614.6	1605.0	1477.0	1650.8	2068.7	2300.2	3137.5	3205.5	3132.3	2553.9	2193.0
65°	1595.4	1573.2	1403.1	1539.9	1746.2	1957.0	2800.9	2575.4	2695.2	2611.6	2073.2
67.5°	1519.9	1514.7	1356.5	1431.9	1566.5	1593.9	2558.3	2330.5	2373.4	2663.4	2108.7
70°	1425.2	1423.8	1303.9	1360.9	1552.5	1524.4	2368.3	2123.4	2098.3	2383.8	2117.5
72.5°	1428.2	1426.7	1294.3	1313.6	1519.2	1473.3	2348.3	2153.0	2107.2	2246.2	2015.5
75°	1452.6	1454.1	1313.6	1335.0	1565.8	1483.7	2395.6	2218.9	2172.3	2232.9	1934.1
77.5°	1428.9	1440.8	1302.5	1350.5	1595.4	1482.2	2373.4	2206.3	2140.5	2123.4	1778.8
80°	1349.8	1366.1	1241.8	1297.3	1568.7	1502.2	2354.9	2187.1	2103.5	2010.3	1667.1
82.5°	1184.1	1201.1	1105.7	1156.8	1459.3	1420.1	2225.5	2062.8	1988.1	1825.4	1521.4
85°	1017.7	1056.9	1010.3	1017.7	1288.4	1300.3	2051.0	1907.5	1855.7	1713.7	1471.8
87.5°	840.2	874.2	830.6	778.1	965.2	1033.2	1695.9	1624.9	1610.9	1512.5	1277.3
90°	622.0	653.1	627.2	558.4	653.8	696.7	1250.0	1210.8	1241.1	1128.7	877.9
92.5°	451.2	456.3	426.0	369.1	435.6	456.3	819.5	759.6	795.1	691.5	514.8
95°	301.8	314.3	290.7	266.3	315.8	318.0	505.2	460.8	441.6	397.2	307.7
97.5°	221.1	221.9	213.0	190.8	221.9	224.8	335.8	302.5	285.5	267.0	213.0
100°	175.3	175.3	162.0	147.9	154.6	160.5	233.7	210.8	201.9	193.8	160.5
102.5°	153.1	152.4	141.3	127.2	126.5	129.4	176.8	161.2	154.6	149.4	126.5
105°	145.0	144.2	133.1	118.3	114.6	112.4	147.2	136.8	132.4	128.0	113.9
107.5°	143.5	142.0	130.9	117.6	111.7	105.8	132.4	123.5	124.3	119.8	109.5
110°	145.0	145.0	135.4	127.2	117.6	109.5	133.1	123.5	126.5	125.0	113.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	141.3	145.0	141.3	136.1	125.7	119.1	139.0	128.0	131.7	131.7	117.6
115°	133.1	136.8	136.8	131.7	122.0	119.8	137.6	128.0	129.4	127.2	109.5
117.5°	122.0	124.3	122.8	116.9	108.7	107.2	128.0	123.5	123.5	116.9	102.1
120°	113.9	109.5	103.5	99.1	94.7	98.4	115.4	110.9	107.2	104.3	93.2
122.5°	102.1	96.9	90.2	88.0	85.1	90.2	105.0	101.3	97.6	96.2	88.0
125°	84.3	84.3	81.4	79.9	79.1	86.5	103.5	99.8	94.7	91.7	82.1
127.5°	81.4	81.4	79.1	77.7	78.4	87.3	101.3	97.6	91.7	88.0	79.1
130°	82.1	80.6	77.7	75.4	76.2	86.5	100.6	96.2	90.2	87.3	79.1
132.5°	77.7	76.2	74.0	72.5	71.7	82.1	95.4	93.2	88.8	82.1	73.2
135°	75.4	74.0	72.5	71.7	71.7	79.9	91.0	88.8	84.3	76.9	67.3
137.5°	74.7	73.2	70.3	69.5	68.8	76.2	85.1	83.6	79.1	72.5	64.3
140°	71.0	68.8	66.6	65.8	65.8	71.7	80.6	79.1	74.7	69.5	62.1
142.5°	65.8	64.3	62.1	62.1	62.9	68.8	78.4	77.7	72.5	66.6	59.9
145°	62.9	61.4	59.9	60.6	61.4	66.6	74.0	73.2	69.5	64.3	57.7
147.5°	57.7	57.0	55.5	54.7	56.2	60.6	68.8	68.8	66.6	59.9	53.3
150°	50.3	49.6	48.1	47.3	48.8	53.3	59.9	59.9	57.7	51.0	45.1
152.5°	42.2	41.4	41.4	42.2	43.6	45.9	51.8	52.5	50.3	43.6	38.5
155°	37.0	36.2	36.2	37.0	39.2	41.4	45.1	45.1	42.9	38.5	33.3
157.5°	31.8	31.1	31.1	31.8	34.0	35.5	39.2	38.5	37.0	33.3	28.8
160°	24.4	23.7	23.7	24.4	26.6	28.1	31.1	31.1	30.3	28.1	24.4
162.5°	18.5	17.8	17.8	18.5	20.0	20.7	22.9	23.7	23.7	22.2	19.2
165°	14.1	13.3	13.3	13.3	14.8	15.5	16.3	16.3	16.3	15.5	13.3
167.5°	8.9	8.1	8.1	8.9	9.6	9.6	10.4	10.4	9.6	9.6	8.1
170°	4.4	3.7	3.7	4.4	4.4	4.4	3.7	3.0	3.0	3.0	3.0
172.5°	1.5	0.7	2.2	2.2	1.5	0.0	0.0	0.7	0.7	0.7	0.0
175°	1.5	0.7	2.2	2.2	1.5	0.0	0.0	0.7	0.0	0.7	0.0
177.5°	0.7	0.7	2.2	2.2	1.5	0.0	0.0	0.0	0.0	0.7	0.0
180°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
2.5°	38.5	37.7	34.8	30.3	25.9	21.4	20.7	21.4	22.2	22.9	23.7
5°	45.9	42.9	37.0	30.3	24.4	18.5	15.5	14.1	13.3	14.1	14.8
7.5°	55.5	51.8	44.4	36.2	28.8	22.9	19.2	15.5	13.3	13.3	14.1
10°	62.1	57.7	48.8	39.9	32.5	25.9	21.4	17.8	15.5	14.1	14.1
12.5°	69.5	63.6	51.8	42.2	34.0	28.1	23.7	20.0	17.8	16.3	16.3
15°	77.7	71.0	57.0	44.4	36.2	29.6	25.9	22.2	19.2	17.8	17.8
17.5°	91.0	79.9	59.9	46.6	37.7	31.1	26.6	22.9	20.0	18.5	18.5
20°	96.9	84.3	60.6	48.8	39.9	32.5	27.4	22.9	20.7	19.2	19.2
22.5°	96.9	83.6	62.1	50.3	42.2	34.0	28.1	23.7	20.7	19.2	19.2
25°	122.0	91.7	63.6	54.0	44.4	35.5	29.6	24.4	21.4	20.0	20.0
27.5°	170.9	119.8	73.2	57.7	47.3	37.7	31.1	25.9	22.2	20.7	20.7
30°	187.9	133.9	83.6	67.3	51.8	39.9	32.5	27.4	23.7	21.4	21.4
32.5°	191.6	131.7	89.5	74.0	59.2	43.6	34.0	28.8	24.4	22.2	22.2
35°	173.1	122.0	89.5	76.9	63.6	48.8	37.7	30.3	25.1	22.9	22.2
37.5°	201.9	131.7	91.7	77.7	65.8	52.5	42.2	32.5	26.6	23.7	23.7
40°	261.1	156.1	102.8	82.1	66.6	54.7	46.6	36.2	28.8	25.1	25.1
42.5°	305.5	176.0	114.6	93.2	72.5	57.7	48.1	39.2	31.8	27.4	26.6
45°	343.2	195.3	125.0	103.5	82.8	64.3	51.0	42.2	34.8	30.3	29.6
47.5°	349.8	204.9	133.1	113.9	91.0	71.0	55.5	45.1	38.5	33.3	32.5
50°	338.0	205.6	136.1	120.6	99.8	78.4	60.6	48.8	41.4	36.2	36.2
52.5°	483.0	256.6	149.4	124.3	102.8	84.3	67.3	53.3	44.4	39.9	39.9
55°	871.3	414.9	193.0	147.2	110.2	88.8	73.2	59.9	48.8	43.6	43.6
57.5°	1408.2	647.9	255.2	196.7	142.0	102.8	79.9	66.6	54.7	47.3	47.3
60°	1866.1	914.2	310.6	239.6	186.4	141.3	96.9	75.4	61.4	52.5	51.8
62.5°	2148.6	1153.8	343.2	255.9	213.0	179.0	130.2	94.7	69.5	59.9	58.4
65°	2085.7	1273.6	357.2	254.4	211.5	190.8	155.3	117.6	83.6	68.8	66.6
67.5°	1915.6	1274.4	355.0	243.3	200.4	181.2	154.6	127.2	96.9	77.7	74.7
70°	1830.6	1252.2	343.9	235.2	191.6	169.4	143.5	116.9	95.4	82.8	81.4
72.5°	1789.9	1237.4	337.3	233.7	190.1	164.9	136.1	104.3	85.8	79.1	80.6
75°	1799.5	1246.3	340.2	235.9	193.0	167.2	133.1	96.9	75.4	68.0	69.5
77.5°	1778.0	1228.5	344.7	235.2	191.6	163.5	124.3	88.8	68.8	61.4	60.6
80°	1795.8	1190.0	334.3	227.8	180.5	148.7	110.2	79.1	62.9	57.7	57.0
82.5°	1659.7	1036.2	297.3	207.8	163.5	128.0	92.5	69.5	59.2	53.3	53.3
85°	1521.4	840.2	255.2	182.7	134.6	100.6	74.0	60.6	51.8	47.3	47.3
87.5°	1154.5	602.1	197.5	150.1	112.4	86.5	67.3	58.4	51.0	48.1	47.3
90°	713.7	371.3	147.2	119.8	95.4	76.9	63.6	56.2	50.3	48.1	48.1
92.5°	399.4	237.4	113.9	98.4	82.1	68.8	58.4	51.0	45.9	43.6	43.6
95°	270.7	177.5	97.6	88.0	73.2	60.6	51.0	44.4	39.9	37.0	37.0
97.5°	196.0	139.8	86.5	79.1	65.8	53.3	45.1	38.5	34.8	33.3	33.3
100°	150.1	113.2	78.4	71.0	58.4	46.6	39.2	33.3	29.6	28.1	28.1
102.5°	120.6	95.4	71.0	64.3	51.8	41.4	33.3	27.4	24.4	23.7	22.9
105°	108.7	88.8	66.6	59.9	47.3	37.7	29.6	24.4	21.4	20.0	20.0
107.5°	105.8	88.8	65.8	58.4	45.1	35.5	26.6	22.2	19.2	17.8	17.8
110°	112.4	93.9	66.6	57.0	42.2	32.5	24.4	20.0	17.0	16.3	16.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	116.1	94.7	63.6	53.3	39.2	29.6	22.9	18.5	16.3	14.8	14.8
115°	106.5	85.1	58.4	47.3	34.8	26.6	21.4	17.8	14.8	13.3	13.3
117.5°	102.8	79.9	57.0	41.4	31.8	24.4	20.0	16.3	14.1	12.6	12.6
120°	102.8	77.7	50.3	36.2	28.8	22.2	18.5	14.8	12.6	11.8	11.8
122.5°	99.1	71.7	44.4	31.8	25.1	19.2	16.3	13.3	11.8	10.4	10.4
125°	90.2	66.6	36.2	28.8	22.9	17.8	14.8	12.6	10.4	9.6	9.6
127.5°	85.1	65.8	34.0	26.6	20.7	16.3	13.3	11.1	8.9	8.1	8.1
130°	84.3	65.8	31.8	23.7	18.5	14.1	11.8	9.6	8.1	7.4	7.4
132.5°	75.4	59.9	30.3	22.2	17.0	13.3	11.1	8.9	7.4	6.7	6.7
135°	68.0	55.5	29.6	20.7	15.5	11.8	9.6	8.1	5.9	5.9	5.9
137.5°	62.9	51.0	29.6	19.2	14.1	10.4	8.9	7.4	5.2	5.2	5.2
140°	59.2	47.3	28.8	18.5	12.6	9.6	8.1	5.9	4.4	4.4	4.4
142.5°	55.5	44.4	26.6	17.8	11.8	8.1	7.4	5.9	4.4	3.7	3.7
145°	51.0	40.7	23.7	16.3	11.1	7.4	6.7	5.2	3.7	3.0	3.0
147.5°	46.6	36.2	20.7	14.1	10.4	6.7	5.9	4.4	3.0	3.0	3.0
150°	39.9	31.1	18.5	12.6	8.9	5.9	5.2	3.7	3.0	2.2	2.2
152.5°	32.5	26.6	16.3	11.1	8.1	5.2	4.4	3.0	2.2	1.5	1.5
155°	28.8	23.7	14.8	9.6	6.7	4.4	3.7	2.2	2.2	1.5	1.5
157.5°	25.1	20.7	13.3	8.1	5.2	3.0	3.0	2.2	1.5	1.5	0.7
160°	20.7	17.8	11.1	6.7	4.4	2.2	2.2	1.5	1.5	0.7	0.7
162.5°	16.3	13.3	8.1	5.2	3.0	1.5	1.5	1.5	1.5	0.7	0.0
165°	11.1	9.6	5.9	3.7	2.2	0.7	0.7	1.5	0.7	0.7	0.0
167.5°	7.4	5.9	3.7	2.2	1.5	0.0	0.7	0.7	0.7	0.7	0.0
170°	3.0	3.0	2.2	1.5	0.0	0.0	0.0	0.7	0.7	0.7	0.0
172.5°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.0
175°	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.7	0.7	0.7	0.0
177.5°	0.7	0.7	0.7	0.7	0.0	0.0	0.7	0.7	0.7	0.7	0.0
180°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7

(END OF REPORT)