

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: P588395

Luminaire Tested: **GAT-CA6-LED-120-722-U-33-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588395
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-120-722-U-33-5-6-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR
Light Source: (6) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9281 lumens
Efficiency: N/A
Efficacy: 77.8 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

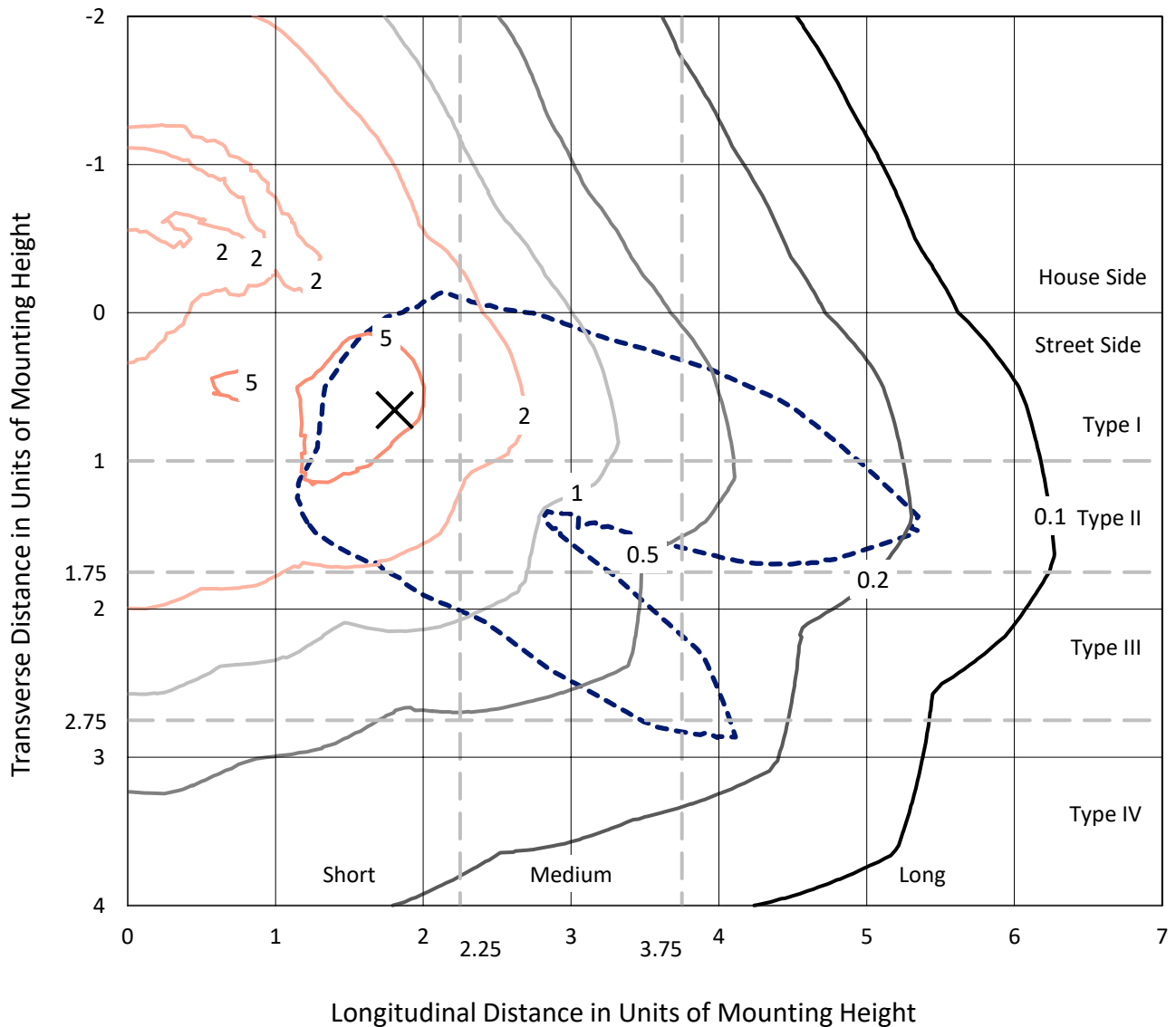
Input Watts (W): 119.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

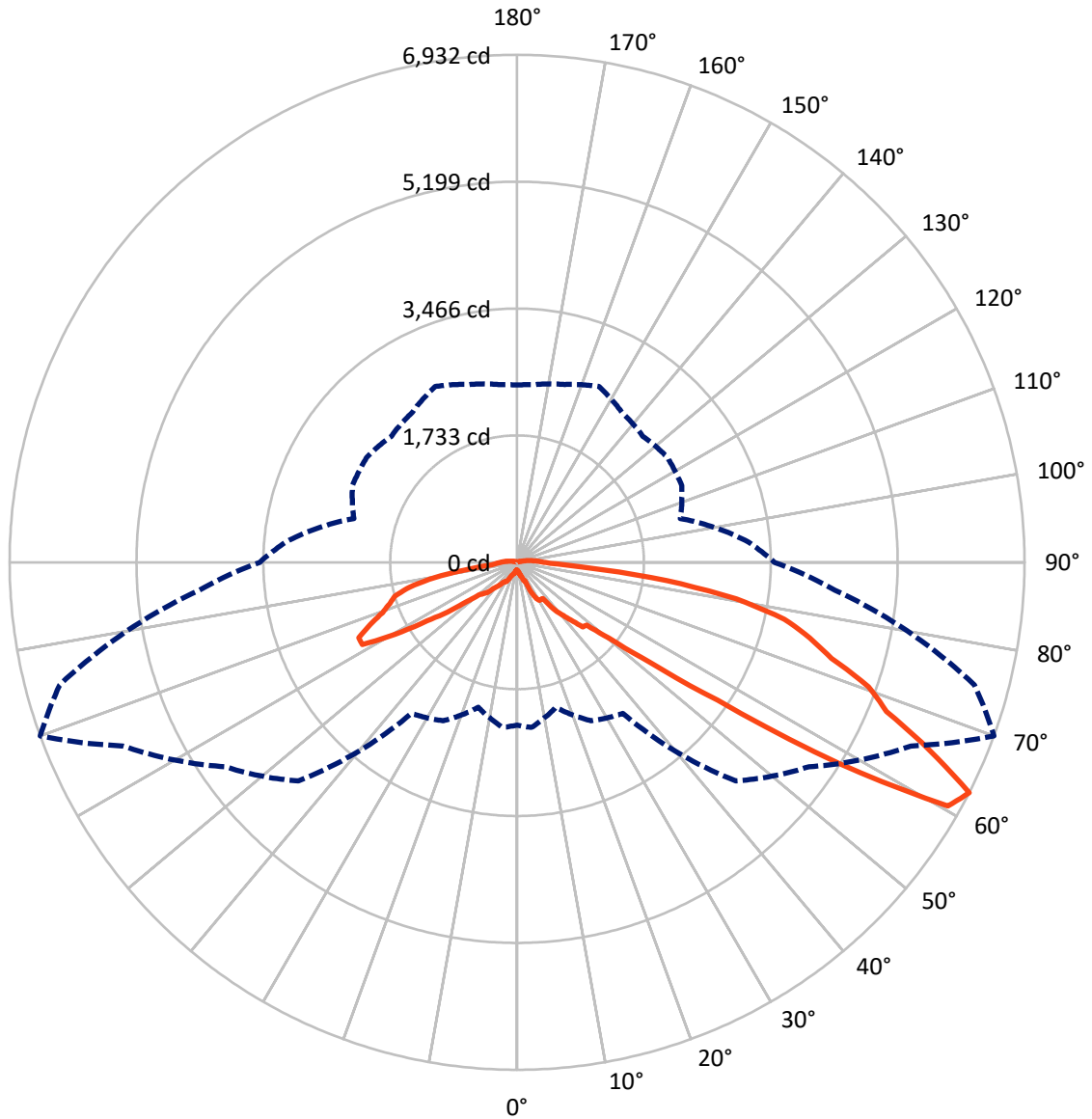
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.1 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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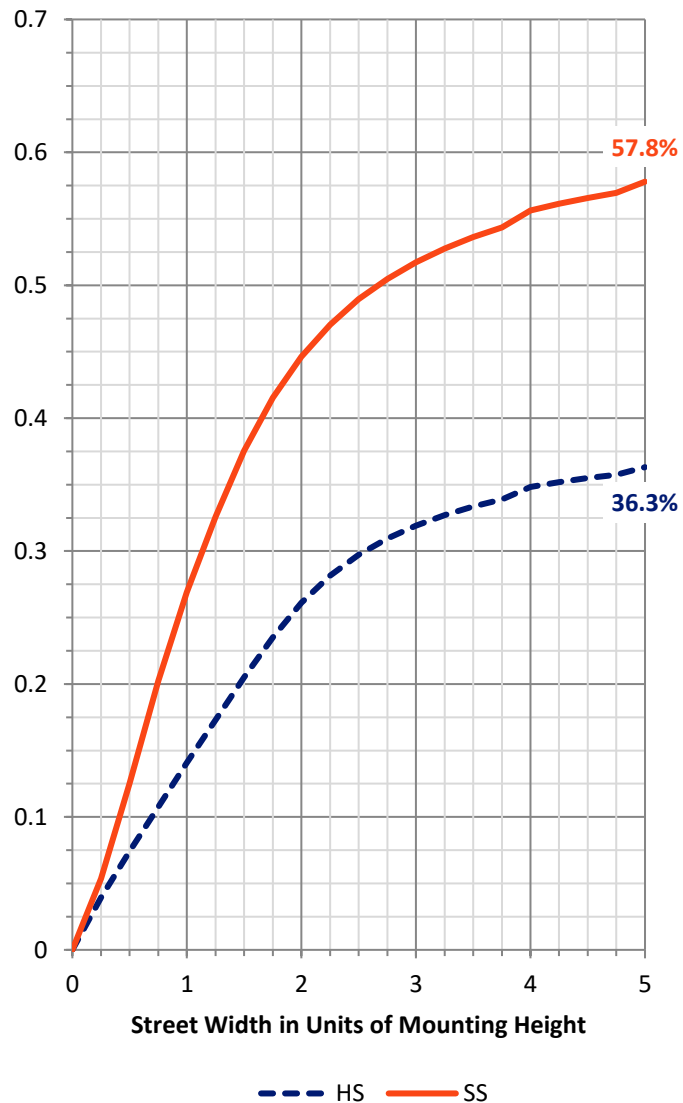
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3439.8	126.1	3565.8
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	5541.9	173.3	5715.2
	% Fixture	59.7	1.9	61.6
Total	Lumens	8981.6	299.4	9281.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.7	0.1
10°-20°	50.5	0.5
20°-30°	156.5	1.7
30°-40°	335.8	3.6
40°-50°	629.1	6.8
50°-60°	1632.4	17.6
60°-70°	2990.3	32.2
70°-80°	2398.6	25.8
80°-90°	776.7	8.4
90°-100°	204.6	2.2
100°-110°	66.6	0.7
110°-120°	26.1	0.3
120°-130°	2.0	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°	8981.6	96.8
0°-180°	9281.0	100.0

Coefficient of Utilization



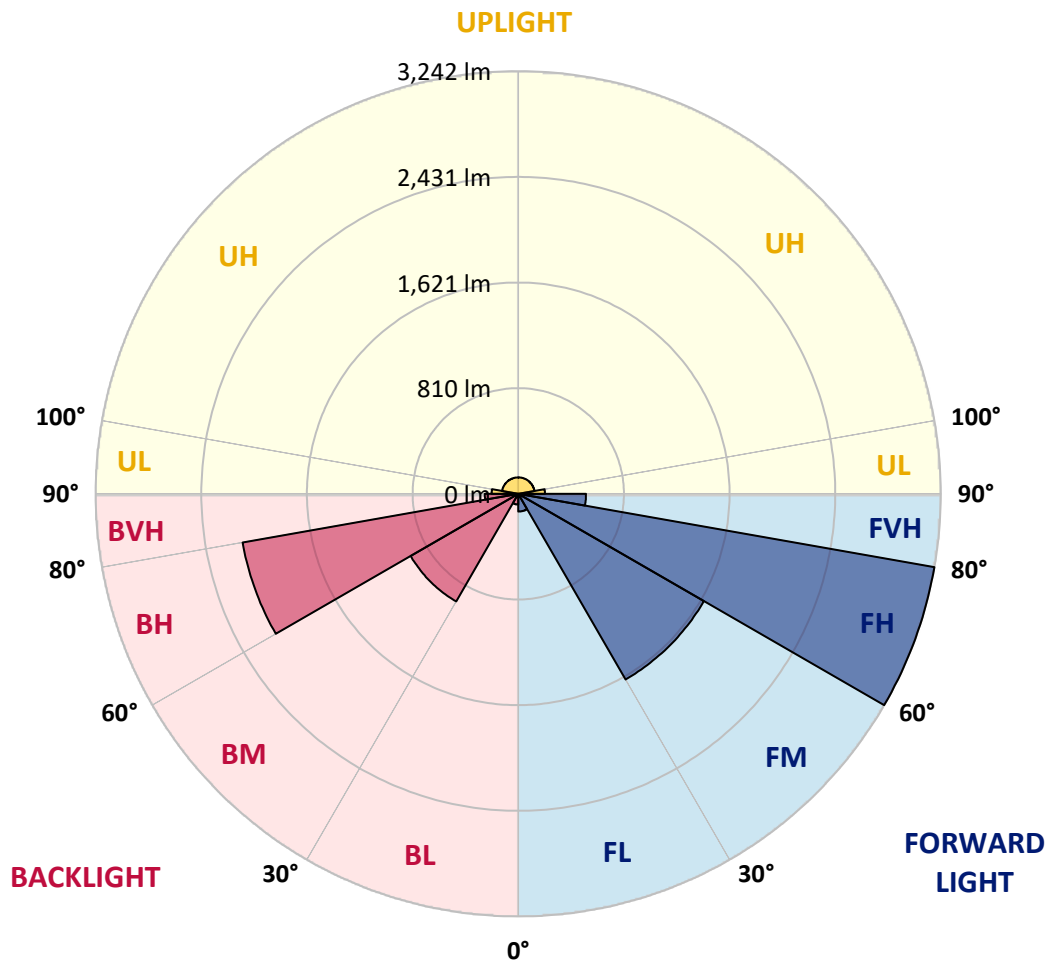
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	136.2	1.5			
FM (30°-60°)	1644.5	17.7			
FH (60°-80°)	3241.6	34.9			G2/5000
FVH (80°-90°)	519.6	5.6			G4/750
BL (0°-30°)	82.6	0.9	B0/110		
BM (30°-60°)	952.8	10.3	B1/1000		
BH (60°-80°)	2147.2	23.1	B3/2500		G3/2500
BVH (80°-90°)	257.1	2.8			G3/500
UL (90°-100°)	204.6	2.2		U3/500	
UH (100°-180°)	126.1	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°	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2.5°	118.9	118.9	118.9	117.1	115.3	113.6	111.8	111.8	110.0	108.2	106.5
5°	129.5	127.7	126.0	122.4	120.6	120.6	118.9	118.9	118.9	117.1	115.3
7.5°	143.7	143.7	141.9	140.2	138.4	136.6	134.8	133.1	133.1	131.3	129.5
10°	163.2	163.2	163.2	161.5	161.5	159.7	156.1	154.4	150.8	149.0	143.7
12.5°	182.7	184.5	181.0	181.0	181.0	179.2	175.6	173.9	170.3	166.8	159.7
15°	202.3	200.5	198.7	196.9	200.5	200.5	198.7	198.7	191.6	186.3	173.9
17.5°	220.0	220.0	221.8	221.8	227.1	225.3	225.3	223.6	220.0	211.1	195.2
20°	248.4	250.2	250.2	250.2	267.9	275.0	276.8	278.6	273.2	255.5	223.6
22.5°	276.8	278.6	291.0	287.4	287.4	287.4	305.2	296.3	273.2	251.9	234.2
25°	374.4	379.7	383.2	395.7	409.8	448.9	511.0	491.5	456.0	383.2	322.9
27.5°	468.4	475.5	539.4	628.1	640.5	594.4	638.7	580.2	562.4	487.9	438.2
30°	511.0	523.4	633.4	693.7	715.0	654.7	718.6	606.8	601.5	548.2	505.7
32.5°	521.6	530.5	651.1	658.2	663.6	656.5	752.3	615.7	603.2	550.0	487.9
35°	505.7	516.3	597.9	557.1	558.9	684.9	864.1	663.6	606.8	514.5	445.3
37.5°	622.8	622.8	692.0	702.6	748.7	901.3	1132.0	876.5	812.6	670.7	585.5
40°	709.7	718.6	828.6	869.4	876.5	1006.0	1417.6	1027.3	936.8	750.5	684.9
42.5°	826.8	825.0	926.1	954.5	974.1	1022.0	1449.5	1181.6	1075.2	849.9	800.2
45°	846.3	874.7	967.0	935.0	959.9	1082.3	1513.4	1399.9	1257.9	1037.9	935.0
47.5°	768.2	807.3	993.6	967.0	867.6	924.4	1213.6	1437.1	1281.0	1066.3	993.6
50°	828.6	849.9	942.1	924.4	791.3	982.9	1332.4	1800.8	1627.0	1268.6	1082.3
52.5°	1071.6	1117.8	1133.7	1202.9	1139.1	1470.8	1864.7	2281.7	2258.6	1836.3	1428.3
55°	1376.8	1444.2	1515.2	1777.8	1815.0	2310.1	2602.8	3048.1	3324.9	2904.4	2191.2
57.5°	1706.8	1802.6	1779.6	2161.0	2219.6	3129.7	3399.4	4442.7	5182.5	4611.2	3209.6
60°	2026.2	2090.0	1960.5	2295.9	2407.6	3940.6	4336.2	5785.8	6759.8	6151.3	3953.0
62.5°	2223.1	2263.9	2051.0	2388.1	2519.4	4222.7	4866.7	5936.6	6931.9	6468.9	4355.7
65°	2221.3	2210.7	1967.6	2260.4	2242.6	3898.0	4703.5	4989.1	6192.1	6114.0	4407.2
67.5°	2134.4	2137.9	1882.5	2114.9	2042.1	3436.7	4357.5	4220.9	5443.3	5548.0	4286.5
70°	2051.0	2093.6	1850.5	2052.8	2019.1	3305.4	4206.7	3798.6	5092.0	5290.8	4158.8
72.5°	1933.9	1974.7	1745.8	1923.3	1935.7	3042.8	3949.4	3316.0	4490.6	4730.1	3727.7
75°	1932.1	1983.6	1768.9	1925.0	1944.6	2893.8	3981.4	3149.3	4130.4	4451.5	3479.3
77.5°	1822.1	1868.3	1669.6	1815.0	1870.0	2618.8	3798.6	2941.7	3731.2	4091.4	3154.6
80°	1463.7	1525.8	1362.6	1458.4	1488.6	1964.1	3046.4	2409.4	3035.7	3395.9	2578.0
82.5°	1000.7	1057.4	949.2	1020.2	1059.2	1288.1	2106.0	1735.2	2063.4	2283.4	1614.6
85°	578.4	645.8	581.9	573.1	592.6	679.5	1133.7	922.6	959.9	1009.5	716.8
87.5°	363.7	374.4	342.4	344.2	347.7	372.6	516.3	411.6	454.2	514.5	434.7
90°	289.2	299.8	276.8	278.6	273.2	296.3	386.8	314.0	349.5	402.8	344.2
92.5°	250.2	257.3	241.3	244.8	241.3	259.0	322.9	259.0	287.4	330.0	282.1
95°	212.9	218.2	209.4	211.1	200.5	211.1	251.9	196.9	218.2	248.4	211.1
97.5°	170.3	175.6	170.3	170.3	159.7	165.0	193.4	152.6	166.8	186.3	159.7
100°	134.8	136.6	134.8	133.1	124.2	124.2	134.8	110.0	115.3	127.7	110.0
102.5°	102.9	104.7	102.9	101.1	90.5	85.2	85.2	71.0	74.5	78.1	69.2
105°	81.6	83.4	81.6	78.1	69.2	63.9	62.1	51.5	51.5	53.2	47.9
107.5°	67.4	67.4	67.4	63.9	58.5	51.5	46.1	37.3	37.3	39.0	37.3
110°	55.0	55.0	53.2	51.5	46.1	40.8	35.5	30.2	30.2	30.2	28.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	46.1	46.1	44.4	42.6	37.3	31.9	28.4	24.8	24.8	24.8	23.1
115°	39.0	39.0	37.3	35.5	31.9	26.6	23.1	19.5	19.5	19.5	19.5
117.5°	33.7	33.7	31.9	30.2	26.6	23.1	19.5	16.0	16.0	16.0	16.0
120°	30.2	28.4	26.6	24.8	21.3	19.5	16.0	14.2	14.2	14.2	12.4
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°	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2.5°	106.5	106.5	104.7	104.7	104.7	102.9	102.9	104.7	104.7	104.7	104.7
5°	113.6	111.8	108.2	104.7	102.9	101.1	99.4	99.4	102.9	102.9	102.9
7.5°	127.7	126.0	120.6	117.1	113.6	110.0	108.2	106.5	108.2	110.0	110.0
10°	141.9	140.2	133.1	127.7	126.0	122.4	120.6	118.9	120.6	120.6	120.6
12.5°	156.1	152.6	147.3	140.2	136.6	134.8	133.1	131.3	131.3	131.3	131.3
15°	168.6	163.2	157.9	152.6	149.0	145.5	143.7	141.9	143.7	145.5	145.5
17.5°	188.1	182.7	170.3	161.5	159.7	156.1	154.4	154.4	156.1	157.9	157.9
20°	209.4	198.7	184.5	175.6	173.9	168.6	166.8	166.8	168.6	170.3	170.3
22.5°	227.1	220.0	198.7	186.3	184.5	182.7	184.5	184.5	186.3	188.1	188.1
25°	289.2	260.8	230.7	221.8	220.0	216.5	212.9	211.1	212.9	218.2	220.0
27.5°	390.3	338.9	282.1	262.6	262.6	266.1	273.2	276.8	269.7	266.1	267.9
30°	457.8	388.6	306.9	289.2	292.7	310.5	326.5	337.1	330.0	324.7	326.5
32.5°	440.0	376.1	317.6	314.0	324.7	338.9	347.7	353.1	367.3	372.6	379.7
35°	401.0	353.1	321.1	335.3	342.4	342.4	342.4	342.4	369.0	393.9	401.0
37.5°	489.7	408.1	381.5	386.8	381.5	376.1	381.5	395.7	418.7	438.2	443.6
40°	574.9	471.9	427.6	424.0	422.3	440.0	471.9	496.8	503.9	486.1	489.7
42.5°	668.9	534.0	477.3	482.6	496.8	525.2	560.7	560.7	560.7	544.7	550.0
45°	757.6	606.8	573.1	587.3	587.3	601.5	621.0	608.6	624.5	631.6	640.5
47.5°	862.3	704.4	629.9	617.4	619.2	647.6	654.7	649.4	660.0	647.6	647.6
50°	894.2	720.3	661.8	709.7	709.7	677.8	651.1	654.7	684.9	718.6	725.7
52.5°	1137.3	892.4	839.2	888.9	910.2	855.2	855.2	862.3	869.4	894.2	901.3
55°	1701.5	1272.1	1112.4	1227.8	1243.7	1277.4	1369.7	1355.5	1273.9	1233.1	1229.5
57.5°	2544.2	1887.8	1385.7	1548.9	1651.8	1790.2	1859.4	1818.6	1708.6	1671.3	1630.5
60°	3252.2	2585.1	1795.5	2079.4	2233.8	2256.8	2232.0	2235.5	2152.1	2178.8	2168.1
62.5°	3514.8	3172.3	2308.3	2480.4	2503.4	2432.5	2498.1	2648.9	2514.1	2434.2	2421.8
65°	3592.8	3390.6	2452.0	2340.2	2318.9	2306.5	2565.5	2817.5	2515.9	2329.6	2327.8
67.5°	3514.8	3167.0	2269.2	2084.7	2134.4	2235.5	2572.6	2666.7	2382.8	2177.0	2162.8
70°	3413.6	2806.8	2042.1	1882.5	1997.8	2145.0	2359.7	2322.5	2210.7	2027.9	2019.1
72.5°	3046.4	2432.5	1896.7	1763.6	1894.9	1937.5	2043.9	2027.9	2059.9	1944.6	1939.2
75°	2727.0	2233.8	1809.7	1653.6	1717.5	1710.4	1795.5	1815.0	1905.5	1855.8	1836.3
77.5°	2352.6	1942.8	1595.0	1414.1	1438.9	1437.1	1477.9	1490.4	1554.2	1557.8	1536.5
80°	1841.7	1522.3	1245.5	1064.5	1068.1	1036.2	1041.5	1039.7	1052.1	1066.3	1046.8
82.5°	1057.4	849.9	706.1	590.8	566.0	523.4	514.5	518.1	512.8	509.2	509.2
85°	518.1	402.8	370.8	331.8	317.6	306.9	312.3	322.9	328.2	317.6	312.3
87.5°	349.5	301.6	287.4	271.5	264.4	253.7	260.8	269.7	276.8	267.9	266.1
90°	276.8	239.5	236.0	232.4	227.1	218.2	225.3	236.0	241.3	234.2	230.7
92.5°	223.6	193.4	193.4	191.6	186.3	179.2	188.1	196.9	202.3	196.9	195.2
95°	172.1	149.0	154.4	150.8	145.5	143.7	149.0	156.1	159.7	156.1	156.1
97.5°	133.1	117.1	122.4	120.6	113.6	111.8	115.3	120.6	124.2	120.6	118.9
100°	90.5	83.4	90.5	90.5	83.4	79.8	83.4	88.7	90.5	90.5	88.7
102.5°	60.3	56.8	65.6	67.4	63.9	60.3	62.1	65.6	67.4	67.4	67.4
105°	42.6	42.6	51.5	53.2	49.7	46.1	49.7	51.5	51.5	51.5	51.5
107.5°	33.7	35.5	40.8	44.4	40.8	37.3	39.0	40.8	40.8	40.8	42.6
110°	28.4	28.4	33.7	37.3	33.7	31.9	31.9	31.9	31.9	33.7	37.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	23.1	24.8	28.4	30.2	28.4	26.6	26.6	26.6	26.6	28.4	33.7
115°	19.5	21.3	24.8	24.8	23.1	23.1	23.1	21.3	21.3	23.1	31.9
117.5°	16.0	17.7	19.5	19.5	19.5	17.7	17.7	17.7	17.7	21.3	33.7
120°	14.2	14.2	16.0	16.0	14.2	14.2	14.2	14.2	12.4	17.7	26.6
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

(END OF REPORT)