

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: P588523

Luminaire Tested: **GAT-CA6-LED-80-730-U-33-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588523
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-80-730-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: 7729 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U3 - G3

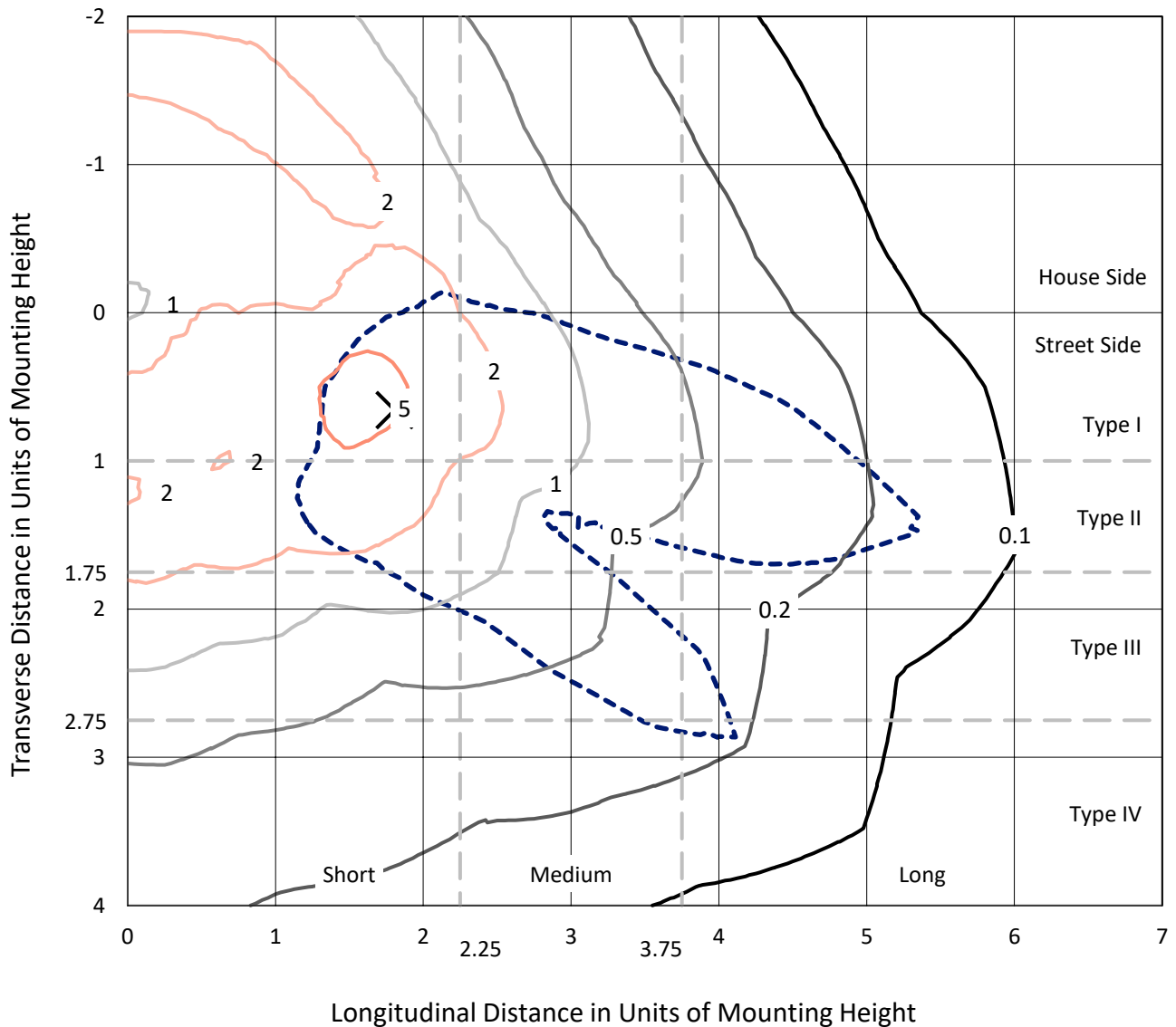
Input Watts (W): 84.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

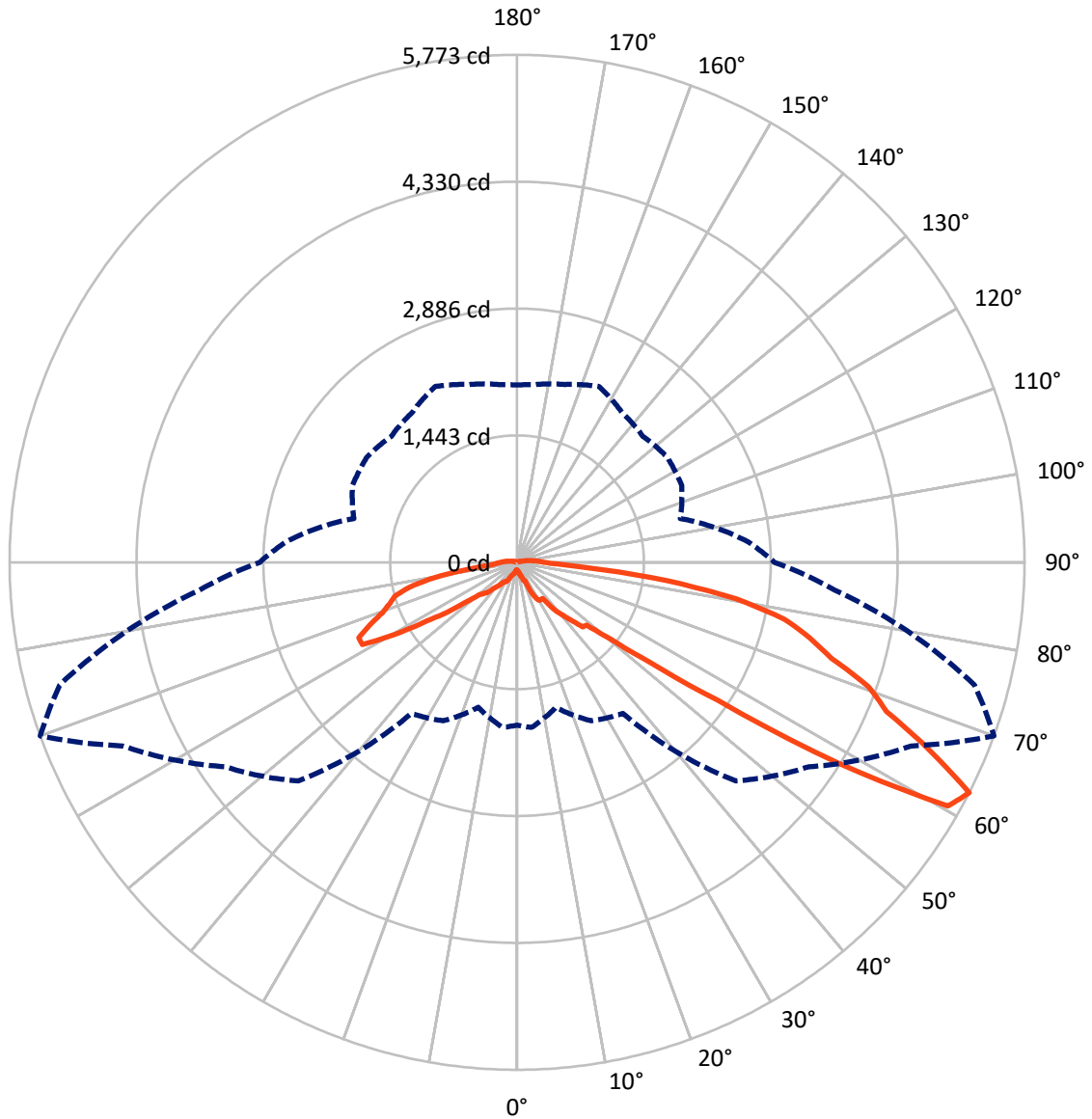
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 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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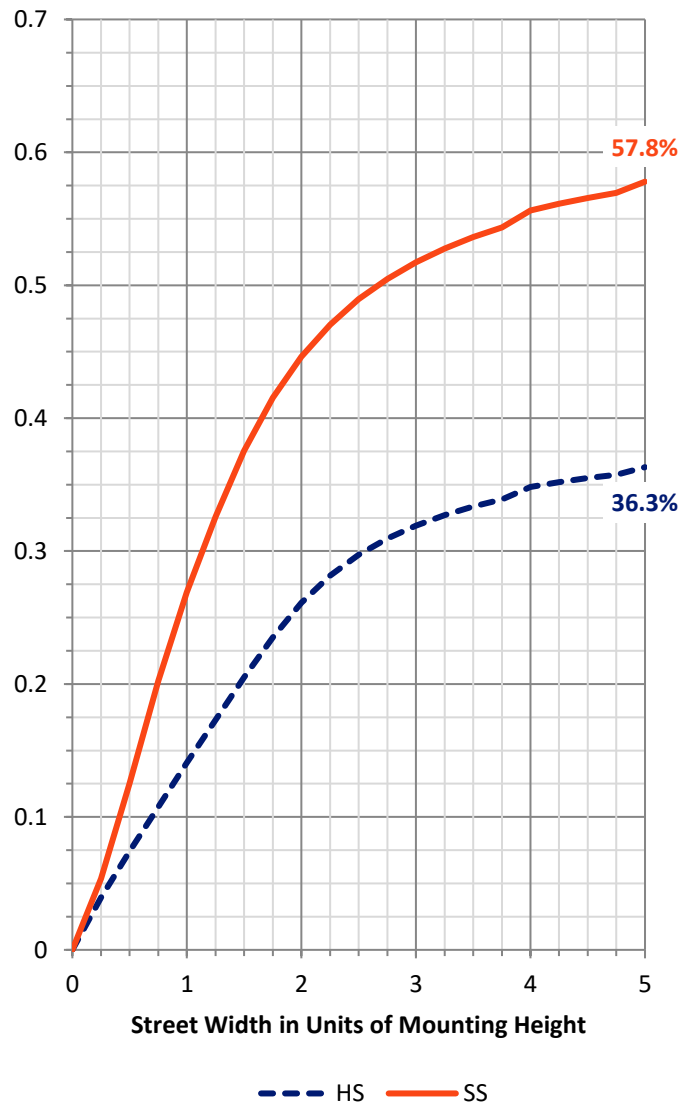
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2864.5	105.0	2969.6
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	4615.1	144.3	4759.4
	% Fixture	59.7	1.9	61.6
Total	Lumens	7479.7	249.3	7729.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.8	0.1
10°-20°	42.1	0.5
20°-30°	130.4	1.7
30°-40°	279.6	3.6
40°-50°	523.9	6.8
50°-60°	1359.5	17.6
60°-70°	2490.3	32.2
70°-80°	1997.5	25.8
80°-90°	646.8	8.4
90°-100°	170.4	2.2
100°-110°	55.4	0.7
110°-120°	21.7	0.3
120°-130°	1.7	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°	7479.7	96.8
0°-180°	7729.0	100.0

Coefficient of Utilization



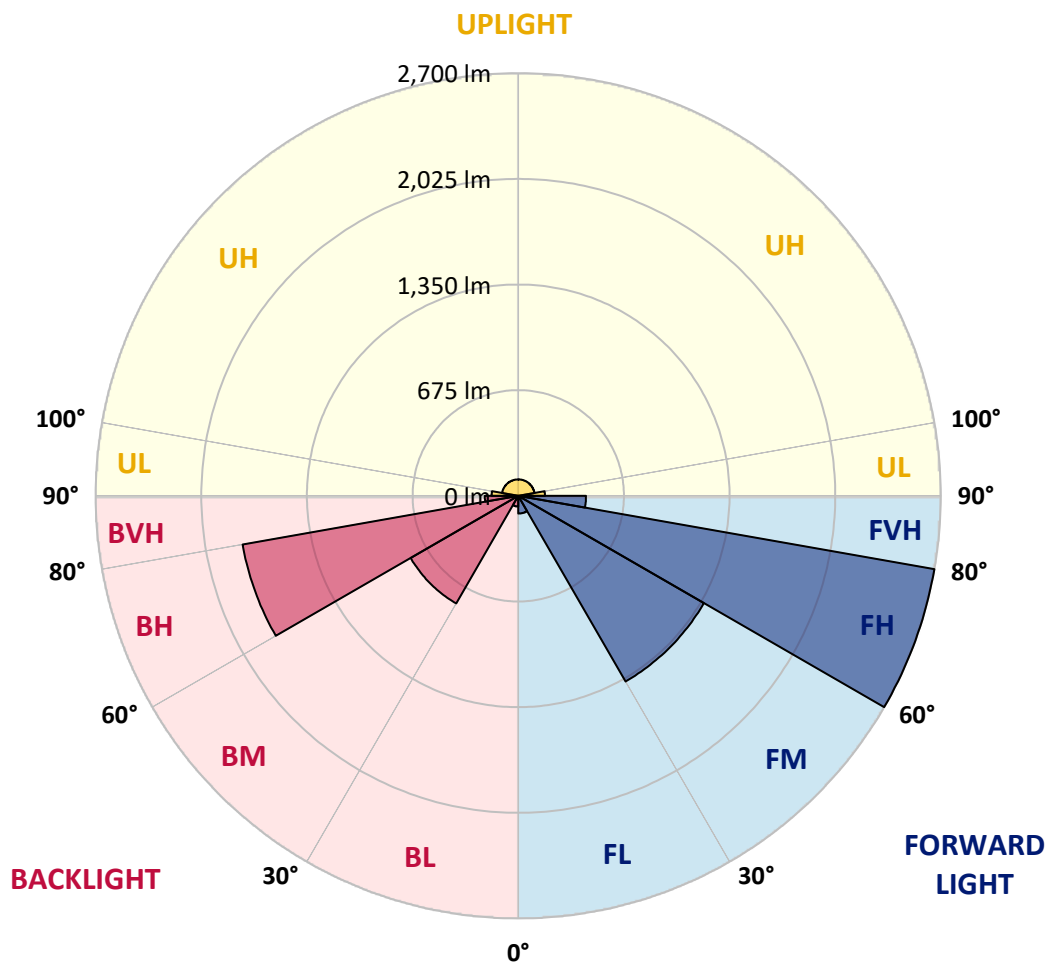
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	113.4	1.5			
FM (30°-60°)	1369.5	17.7			
FH (60°-80°)	2699.6	34.9			G2/5000
FVH (80°-90°)	432.7	5.6			G3/500
BL (0°-30°)	68.8	0.9	B0/110		
BM (30°-60°)	793.5	10.3	B1/1000		
BH (60°-80°)	1788.2	23.1	B3/2500		G3/2500
BVH (80°-90°)	214.1	2.8			G2/225
UL (90°-100°)	170.4	2.2		U3/500	
UH (100°-180°)	105.0	1.4		U3/500	

BUG Rating: B3-U3-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
2.5°	99.0	99.0	99.0	97.5	96.0	94.6	93.1	93.1	91.6	90.1	88.7
5°	107.9	106.4	104.9	102.0	100.5	100.5	99.0	99.0	99.0	97.5	96.0
7.5°	119.7	119.7	118.2	116.7	115.2	113.8	112.3	110.8	110.8	109.3	107.9
10°	135.9	135.9	135.9	134.5	134.5	133.0	130.0	128.5	125.6	124.1	119.7
12.5°	152.2	153.7	150.7	150.7	150.7	149.2	146.3	144.8	141.8	138.9	133.0
15°	168.4	167.0	165.5	164.0	167.0	167.0	165.5	165.5	159.6	155.1	144.8
17.5°	183.2	183.2	184.7	184.7	189.1	187.6	187.6	186.2	183.2	175.8	162.5
20°	206.9	208.3	208.3	208.3	223.1	229.0	230.5	232.0	227.5	212.8	186.2
22.5°	230.5	232.0	242.3	239.4	239.4	239.4	254.1	246.7	227.5	209.8	195.0
25°	311.8	316.2	319.1	329.5	341.3	373.8	425.5	409.3	379.7	319.1	268.9
27.5°	390.1	396.0	449.2	523.0	533.4	495.0	531.9	483.2	468.4	406.3	365.0
30°	425.5	435.9	527.5	577.7	595.4	545.2	598.4	505.3	500.9	456.6	421.1
32.5°	434.4	441.8	542.3	548.2	552.6	546.7	626.5	512.7	502.4	458.0	406.3
35°	421.1	430.0	497.9	463.9	465.4	570.3	719.6	552.6	505.3	428.5	370.9
37.5°	518.6	518.6	576.2	585.1	623.5	750.6	942.7	729.9	676.7	558.5	487.6
40°	591.0	598.4	690.0	724.0	729.9	837.8	1180.6	855.5	780.1	625.0	570.3
42.5°	688.5	687.1	771.3	794.9	811.2	851.1	1207.1	984.0	895.4	707.7	666.4
45°	704.8	728.4	805.3	778.7	799.3	901.3	1260.3	1165.8	1047.6	864.4	778.7
47.5°	639.8	672.3	827.4	805.3	722.5	769.8	1010.6	1196.8	1066.8	888.0	827.4
50°	690.0	707.7	784.6	769.8	659.0	818.6	1109.6	1499.7	1354.9	1056.4	901.3
52.5°	892.4	930.8	944.1	1001.8	948.6	1224.9	1552.9	1900.1	1880.9	1529.3	1189.4
55°	1146.6	1202.7	1261.8	1480.5	1511.5	1923.8	2167.5	2538.4	2768.9	2418.7	1824.8
57.5°	1421.4	1501.2	1482.0	1799.6	1848.4	2606.4	2831.0	3699.8	4315.9	3840.1	2672.9
60°	1687.3	1740.5	1632.7	1911.9	2005.0	3281.6	3611.1	4818.3	5629.4	5122.6	3292.0
62.5°	1851.4	1885.3	1708.0	1988.8	2098.1	3516.5	4052.9	4943.8	5772.7	5387.1	3627.4
65°	1849.9	1841.0	1638.6	1882.4	1867.6	3246.2	3917.0	4154.8	5156.6	5091.6	3670.2
67.5°	1777.5	1780.4	1567.7	1761.2	1700.6	2862.0	3628.8	3515.1	4533.1	4620.3	3569.7
70°	1708.0	1743.5	1541.1	1709.5	1681.4	2752.7	3503.2	3163.4	4240.5	4406.0	3463.4
72.5°	1610.5	1644.5	1453.9	1601.7	1612.0	2534.0	3289.0	2761.5	3739.7	3939.1	3104.3
75°	1609.0	1651.9	1473.1	1603.1	1619.4	2409.9	3315.6	2622.6	3439.7	3707.1	2897.5
77.5°	1517.4	1555.8	1390.4	1511.5	1557.3	2180.8	3163.4	2449.8	3107.3	3407.2	2627.1
80°	1219.0	1270.7	1134.8	1214.5	1239.7	1635.6	2536.9	2006.5	2528.1	2828.0	2146.9
82.5°	833.3	880.6	790.5	849.6	882.1	1072.7	1753.8	1445.0	1718.4	1901.6	1344.6
85°	481.7	537.8	484.6	477.2	493.5	565.9	944.1	768.3	799.3	840.7	596.9
87.5°	302.9	311.8	285.2	286.6	289.6	310.3	430.0	342.8	378.3	428.5	362.0
90°	240.8	249.7	230.5	232.0	227.5	246.7	322.1	261.5	291.1	335.4	286.6
92.5°	208.3	214.2	200.9	203.9	200.9	215.7	268.9	215.7	239.4	274.8	234.9
95°	177.3	181.7	174.3	175.8	167.0	175.8	209.8	164.0	181.7	206.9	175.8
97.5°	141.8	146.3	141.8	141.8	133.0	137.4	161.1	127.1	138.9	155.1	133.0
100°	112.3	113.8	112.3	110.8	103.4	103.4	112.3	91.6	96.0	106.4	91.6
102.5°	85.7	87.2	85.7	84.2	75.4	70.9	70.9	59.1	62.1	65.0	57.6
105°	68.0	69.4	68.0	65.0	57.6	53.2	51.7	42.8	42.8	44.3	39.9
107.5°	56.1	56.1	56.1	53.2	48.8	42.8	38.4	31.0	31.0	32.5	31.0
110°	45.8	45.8	44.3	42.8	38.4	34.0	29.6	25.1	25.1	25.1	23.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	38.4	38.4	36.9	35.5	31.0	26.6	23.6	20.7	20.7	20.7	19.2
115°	32.5	32.5	31.0	29.6	26.6	22.2	19.2	16.3	16.3	16.3	16.3
117.5°	28.1	28.1	26.6	25.1	22.2	19.2	16.3	13.3	13.3	13.3	13.3
120°	25.1	23.6	22.2	20.7	17.7	16.3	13.3	11.8	11.8	11.8	10.3
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°	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
2.5°	88.7	88.7	87.2	87.2	87.2	85.7	85.7	87.2	87.2	87.2	87.2
5°	94.6	93.1	90.1	87.2	85.7	84.2	82.7	82.7	85.7	85.7	85.7
7.5°	106.4	104.9	100.5	97.5	94.6	91.6	90.1	88.7	90.1	91.6	91.6
10°	118.2	116.7	110.8	106.4	104.9	102.0	100.5	99.0	100.5	100.5	100.5
12.5°	130.0	127.1	122.6	116.7	113.8	112.3	110.8	109.3	109.3	109.3	109.3
15°	140.4	135.9	131.5	127.1	124.1	121.2	119.7	118.2	119.7	121.2	121.2
17.5°	156.6	152.2	141.8	134.5	133.0	130.0	128.5	128.5	130.0	131.5	131.5
20°	174.3	165.5	153.7	146.3	144.8	140.4	138.9	138.9	140.4	141.8	141.8
22.5°	189.1	183.2	165.5	155.1	153.7	152.2	153.7	153.7	155.1	156.6	156.6
25°	240.8	217.2	192.1	184.7	183.2	180.3	177.3	175.8	177.3	181.7	183.2
27.5°	325.1	282.2	234.9	218.7	218.7	221.6	227.5	230.5	224.6	221.6	223.1
30°	381.2	323.6	255.6	240.8	243.8	258.6	271.9	280.7	274.8	270.4	271.9
32.5°	366.4	313.2	264.5	261.5	270.4	282.2	289.6	294.0	305.9	310.3	316.2
35°	333.9	294.0	267.4	279.3	285.2	285.2	285.2	285.2	307.3	328.0	333.9
37.5°	407.8	339.8	317.7	322.1	317.7	313.2	317.7	329.5	348.7	365.0	369.4
40°	478.7	393.0	356.1	353.1	351.7	366.4	393.0	413.7	419.6	404.8	407.8
42.5°	557.0	444.7	397.5	401.9	413.7	437.4	466.9	466.9	466.9	453.6	458.0
45°	630.9	505.3	477.2	489.1	489.1	500.9	517.1	506.8	520.1	526.0	533.4
47.5°	718.1	586.6	524.5	514.2	515.7	539.3	545.2	540.8	549.6	539.3	539.3
50°	744.7	599.9	551.1	591.0	591.0	564.4	542.3	545.2	570.3	598.4	604.3
52.5°	947.1	743.2	698.9	740.2	758.0	712.2	712.2	718.1	724.0	744.7	750.6
55°	1417.0	1059.4	926.4	1022.5	1035.8	1063.8	1140.7	1128.8	1060.9	1026.9	1023.9
57.5°	2118.8	1572.1	1154.0	1289.9	1375.6	1490.8	1548.5	1514.5	1422.9	1391.8	1357.9
60°	2708.3	2152.8	1495.3	1731.7	1860.2	1879.4	1858.7	1861.7	1792.3	1814.4	1805.6
62.5°	2927.0	2641.8	1922.3	2065.6	2084.8	2025.7	2080.4	2206.0	2093.7	2027.2	2016.8
65°	2992.0	2823.6	2042.0	1948.9	1931.1	1920.8	2136.5	2346.3	2095.2	1940.0	1938.5
67.5°	2927.0	2637.4	1889.8	1736.1	1777.5	1861.7	2142.4	2220.7	1984.3	1812.9	1801.1
70°	2842.8	2337.5	1700.6	1567.7	1663.7	1786.3	1965.1	1934.1	1841.0	1688.8	1681.4
72.5°	2536.9	2025.7	1579.5	1468.7	1578.0	1613.5	1702.1	1688.8	1715.4	1619.4	1615.0
75°	2271.0	1860.2	1507.1	1377.1	1430.3	1424.3	1495.3	1511.5	1586.9	1545.5	1529.3
77.5°	1959.2	1617.9	1328.3	1177.6	1198.3	1196.8	1230.8	1241.1	1294.3	1297.3	1279.5
80°	1533.7	1267.7	1037.2	886.5	889.5	862.9	867.3	865.8	876.2	888.0	871.7
82.5°	880.6	707.7	588.1	492.0	471.3	435.9	428.5	431.4	427.0	424.1	424.1
85°	431.4	335.4	308.8	276.3	264.5	255.6	260.0	268.9	273.3	264.5	260.0
87.5°	291.1	251.2	239.4	226.1	220.2	211.3	217.2	224.6	230.5	223.1	221.6
90°	230.5	199.5	196.5	193.6	189.1	181.7	187.6	196.5	200.9	195.0	192.1
92.5°	186.2	161.1	161.1	159.6	155.1	149.2	156.6	164.0	168.4	164.0	162.5
95°	143.3	124.1	128.5	125.6	121.2	119.7	124.1	130.0	133.0	130.0	130.0
97.5°	110.8	97.5	102.0	100.5	94.6	93.1	96.0	100.5	103.4	100.5	99.0
100°	75.4	69.4	75.4	75.4	69.4	66.5	69.4	73.9	75.4	75.4	73.9
102.5°	50.2	47.3	54.7	56.1	53.2	50.2	51.7	54.7	56.1	56.1	56.1
105°	35.5	35.5	42.8	44.3	41.4	38.4	41.4	42.8	42.8	42.8	42.8
107.5°	28.1	29.6	34.0	36.9	34.0	31.0	32.5	34.0	34.0	34.0	35.5
110°	23.6	23.6	28.1	31.0	28.1	26.6	26.6	26.6	26.6	28.1	31.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	19.2	20.7	23.6	25.1	23.6	22.2	22.2	22.2	22.2	23.6	28.1
115°	16.3	17.7	20.7	20.7	19.2	19.2	19.2	17.7	17.7	19.2	26.6
117.5°	13.3	14.8	16.3	16.3	16.3	14.8	14.8	14.8	14.8	17.7	28.1
120°	11.8	11.8	13.3	13.3	11.8	11.8	11.8	11.8	10.3	14.8	22.2
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)