

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: P588451

Luminaire Tested: **GAT-CA6-LED-50-730-U-33-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588451
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-50-730-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: 5111 lumens
Efficiency: N/A
Efficacy: 94.6 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

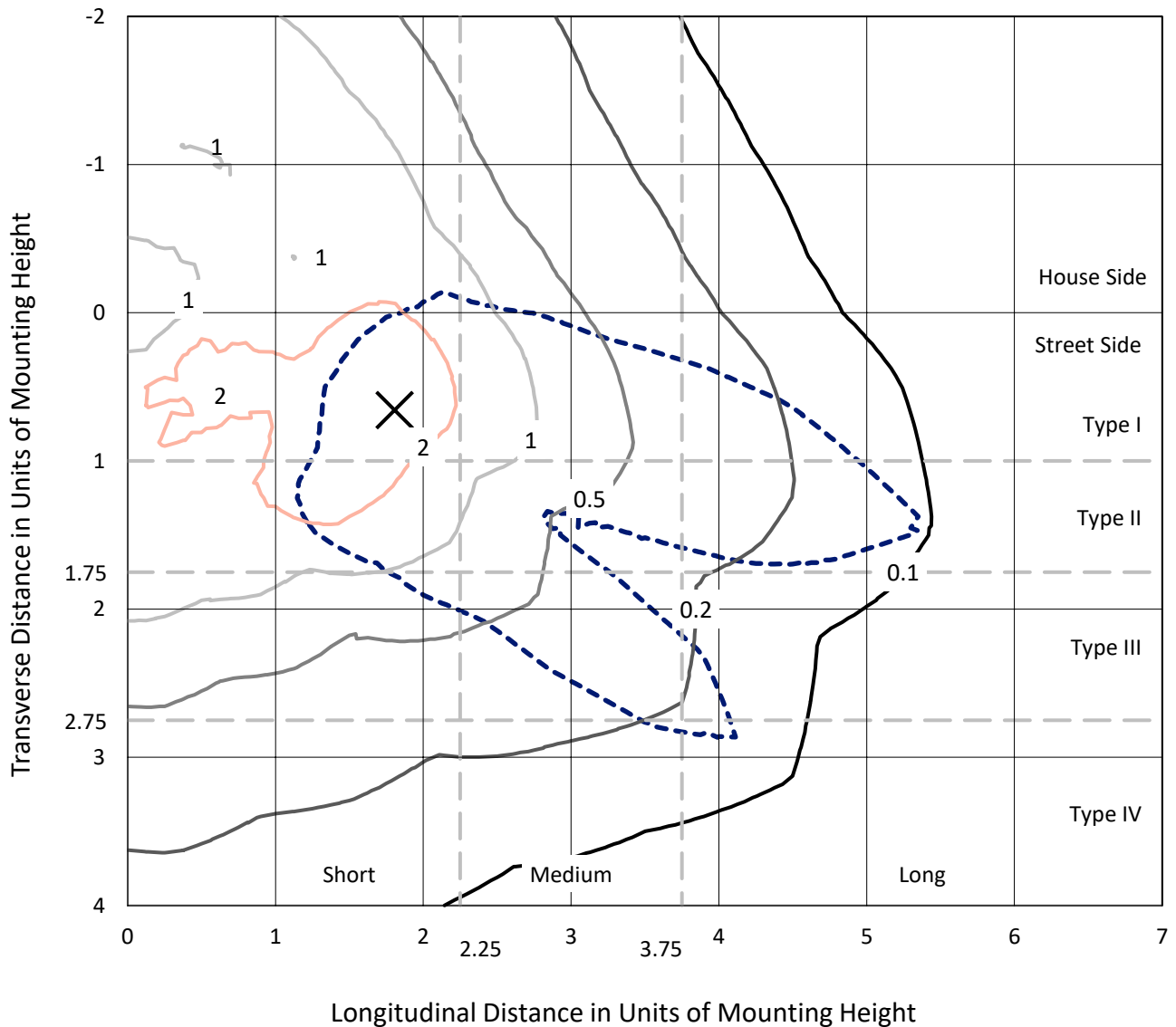
Input Watts (W): 54
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

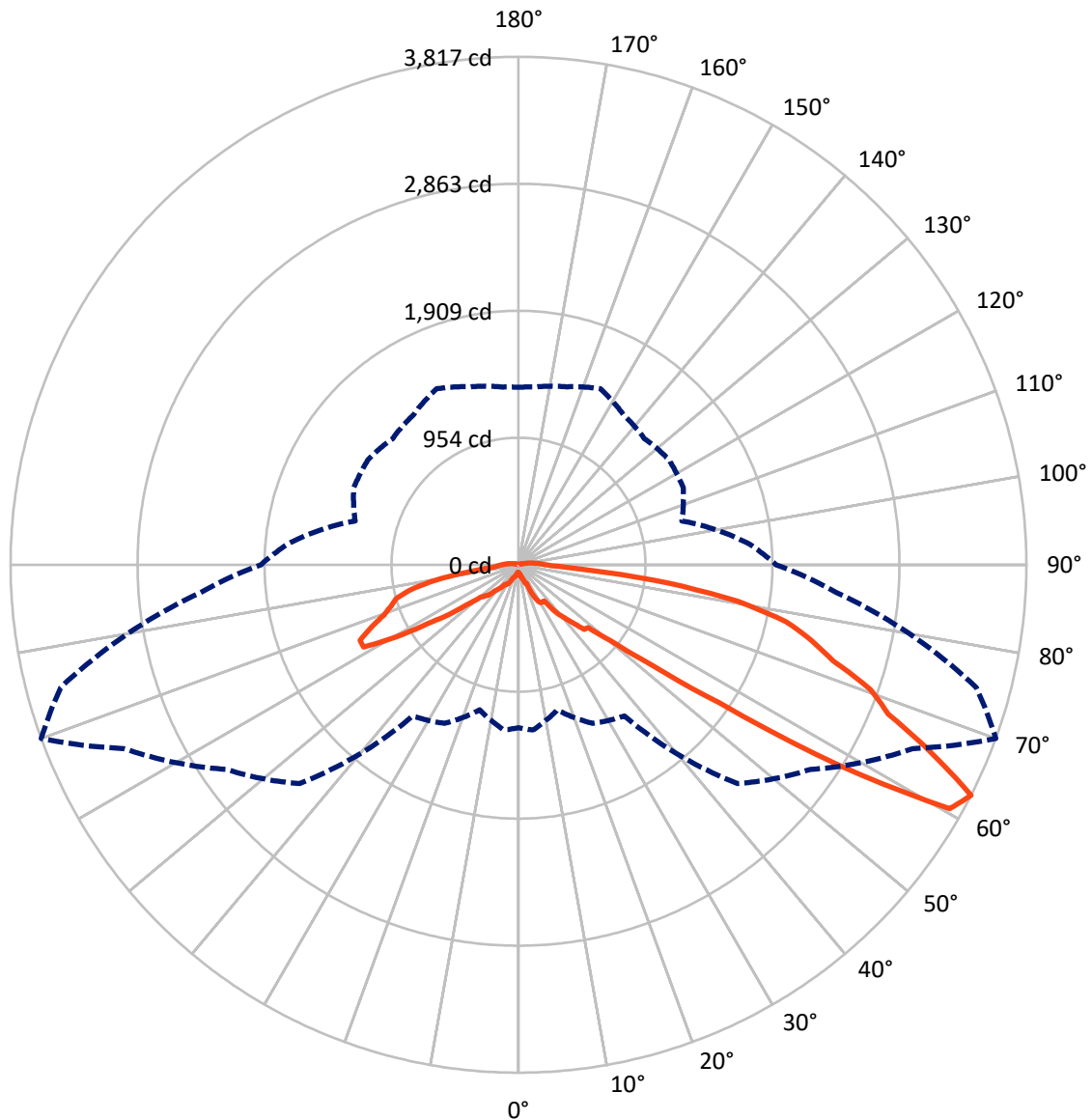
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 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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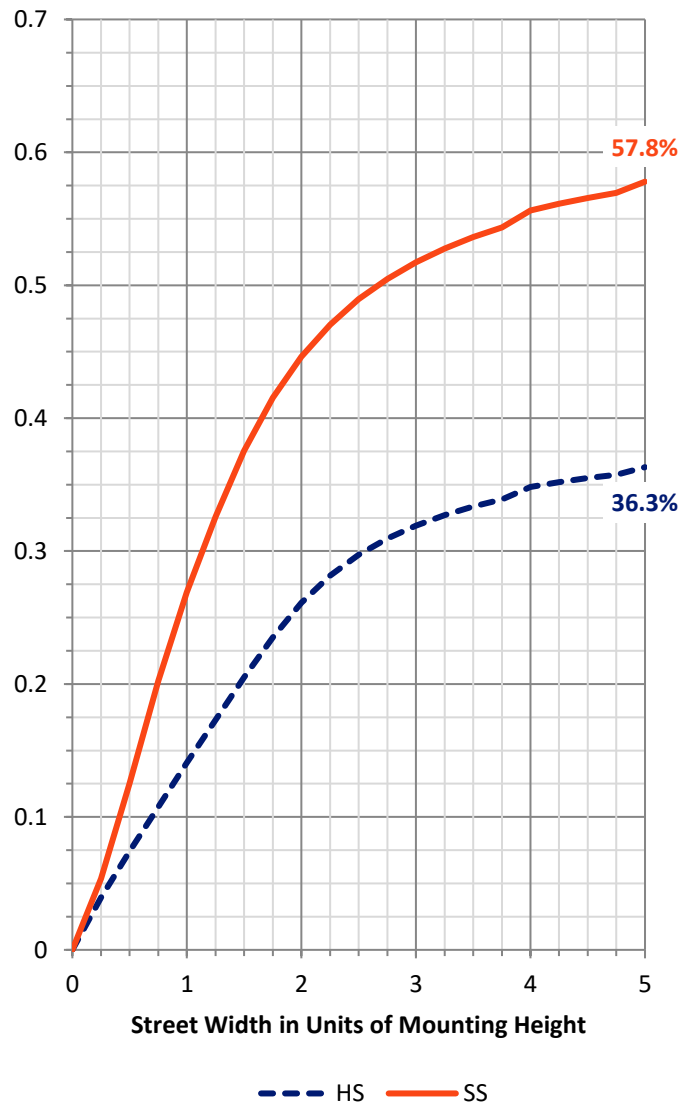
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1894.3	69.4	1963.7
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	3051.9	95.4	3147.3
	% Fixture	59.7	1.9	61.6
Total	Lumens	4946.1	164.9	5111.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.5	0.1
10°-20°	27.8	0.5
20°-30°	86.2	1.7
30°-40°	184.9	3.6
40°-50°	346.4	6.8
50°-60°	899.0	17.6
60°-70°	1646.8	32.2
70°-80°	1320.9	25.8
80°-90°	427.7	8.4
90°-100°	112.7	2.2
100°-110°	36.7	0.7
110°-120°	14.4	0.3
120°-130°	1.1	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°	4946.1	96.8
0°-180°	5111.0	100.0

Coefficient of Utilization



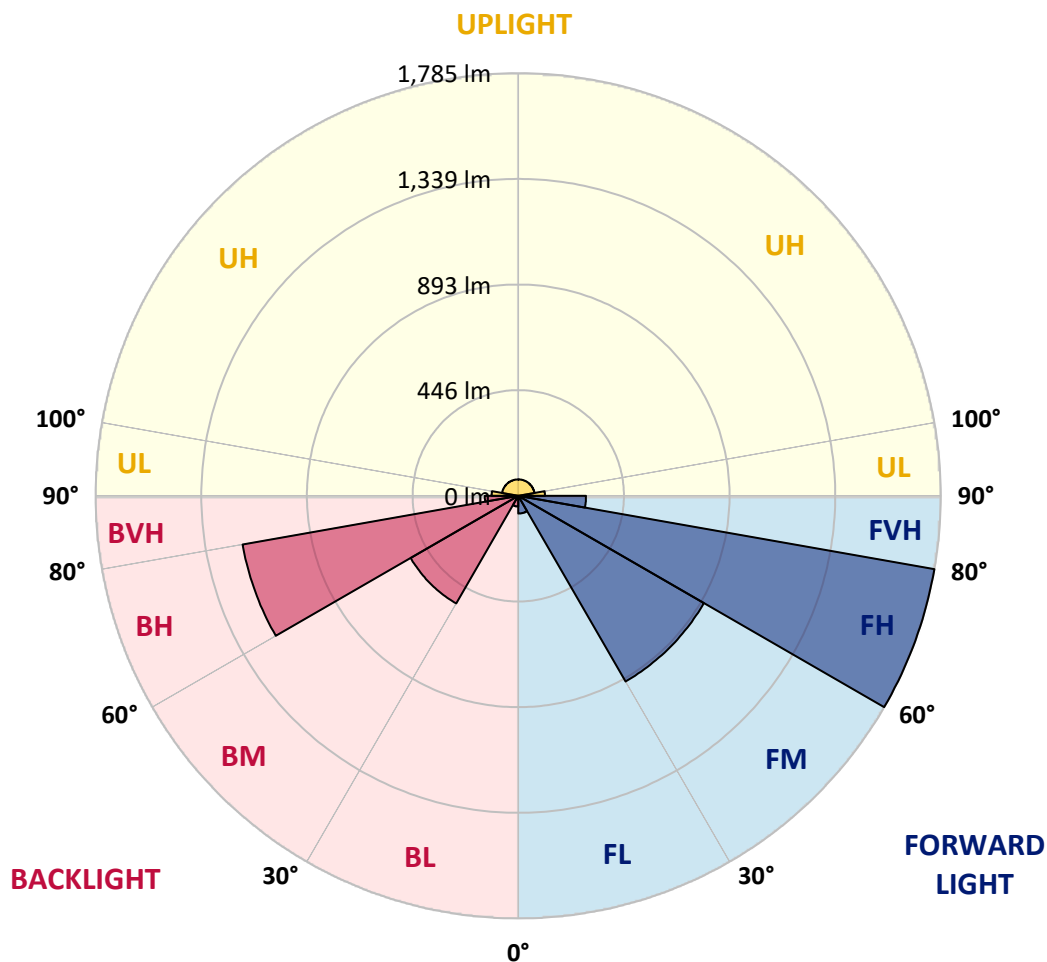
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	75.0	1.5			
FM (30°-60°)	905.6	17.7			
FH (60°-80°)	1785.2	34.9			G1/1800
FVH (80°-90°)	286.1	5.6			G3/500
BL (0°-30°)	45.5	0.9	B0/110		
BM (30°-60°)	524.7	10.3	B1/1000		
BH (60°-80°)	1182.5	23.1	B3/2500		G3/2500
BVH (80°-90°)	141.6	2.8			G2/225
UL (90°-100°)	112.7	2.2		U3/500	
UH (100°-180°)	69.4	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°	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
2.5°	65.5	65.5	65.5	64.5	63.5	62.5	61.6	61.6	60.6	59.6	58.6
5°	71.3	70.3	69.4	67.4	66.4	66.4	65.5	65.5	65.5	64.5	63.5
7.5°	79.1	79.1	78.2	77.2	76.2	75.2	74.3	73.3	73.3	72.3	71.3
10°	89.9	89.9	89.9	88.9	88.9	87.9	86.0	85.0	83.1	82.1	79.1
12.5°	100.6	101.6	99.7	99.7	99.7	98.7	96.7	95.8	93.8	91.8	87.9
15°	111.4	110.4	109.4	108.5	110.4	110.4	109.4	109.4	105.5	102.6	95.8
17.5°	121.2	121.2	122.1	122.1	125.1	124.1	124.1	123.1	121.2	116.3	107.5
20°	136.8	137.8	137.8	137.8	147.5	151.4	152.4	153.4	150.5	140.7	123.1
22.5°	152.4	153.4	160.2	158.3	158.3	158.3	168.1	163.2	150.5	138.7	129.0
25°	206.2	209.1	211.0	217.9	225.7	247.2	281.4	270.6	251.1	211.0	177.8
27.5°	257.9	261.9	297.0	345.9	352.7	327.3	351.7	319.5	309.7	268.7	241.3
30°	281.4	288.2	348.8	382.0	393.8	360.5	395.7	334.2	331.2	301.9	278.5
32.5°	287.3	292.1	358.6	362.5	365.4	361.5	414.3	339.0	332.2	302.9	268.7
35°	278.5	284.3	329.3	306.8	307.8	377.1	475.8	365.4	334.2	283.3	245.2
37.5°	342.9	342.9	381.1	386.9	412.3	496.3	623.4	482.7	447.5	369.3	322.4
40°	390.8	395.7	456.3	478.8	482.7	554.0	780.7	565.7	515.9	413.3	377.1
42.5°	455.3	454.3	510.0	525.7	536.4	562.8	798.3	650.7	592.1	468.0	440.7
45°	466.1	481.7	532.5	514.9	528.6	596.0	833.4	770.9	692.7	571.6	514.9
47.5°	423.1	444.6	547.2	532.5	477.8	509.0	668.3	791.4	705.4	587.2	547.2
50°	456.3	468.0	518.8	509.0	435.8	541.3	733.8	991.7	896.0	698.6	596.0
52.5°	590.1	615.5	624.3	662.4	627.3	810.0	1026.9	1256.5	1243.8	1011.3	786.5
55°	758.2	795.3	834.4	979.0	999.5	1272.1	1433.3	1678.6	1831.0	1599.4	1206.7
57.5°	939.9	992.7	980.0	1190.1	1222.3	1723.5	1872.0	2446.6	2854.0	2539.4	1767.5
60°	1115.8	1151.0	1079.7	1264.3	1325.9	2170.1	2387.9	3186.2	3722.6	3387.5	2176.9
62.5°	1224.3	1246.7	1129.5	1315.1	1387.4	2325.4	2680.1	3269.2	3817.4	3562.4	2398.7
65°	1223.3	1217.4	1083.6	1244.8	1235.0	2146.6	2590.2	2747.5	3409.9	3367.0	2427.0
67.5°	1175.4	1177.4	1036.7	1164.7	1124.6	1892.6	2399.7	2324.4	2997.6	3055.3	2360.6
70°	1129.5	1152.9	1019.1	1130.5	1111.9	1820.3	2316.6	2091.9	2804.2	2913.6	2290.2
72.5°	1065.0	1087.5	961.4	1059.1	1066.0	1675.7	2174.9	1826.1	2472.9	2604.8	2052.8
75°	1064.0	1092.4	974.1	1060.1	1070.9	1593.6	2192.5	1734.3	2274.6	2451.4	1916.0
77.5°	1003.4	1028.8	919.4	999.5	1029.8	1442.1	2091.9	1620.0	2054.8	2253.1	1737.2
80°	806.1	840.3	750.4	803.1	819.8	1081.6	1677.6	1326.8	1671.8	1870.1	1419.7
82.5°	551.1	582.3	522.7	561.8	583.3	709.3	1159.8	955.6	1136.3	1257.5	889.1
85°	318.5	355.7	320.5	315.6	326.3	374.2	624.3	508.1	528.6	555.9	394.7
87.5°	200.3	206.2	188.6	189.5	191.5	205.2	284.3	226.7	250.1	283.3	239.4
90°	159.3	165.1	152.4	153.4	150.5	163.2	213.0	172.9	192.5	221.8	189.5
92.5°	137.8	141.7	132.9	134.8	132.9	142.7	177.8	142.7	158.3	181.7	155.4
95°	117.2	120.2	115.3	116.3	110.4	116.3	138.7	108.5	120.2	136.8	116.3
97.5°	93.8	96.7	93.8	93.8	87.9	90.9	106.5	84.0	91.8	102.6	87.9
100°	74.3	75.2	74.3	73.3	68.4	68.4	74.3	60.6	63.5	70.3	60.6
102.5°	56.7	57.6	56.7	55.7	49.8	46.9	46.9	39.1	41.0	43.0	38.1
105°	44.9	45.9	44.9	43.0	38.1	35.2	34.2	28.3	28.3	29.3	26.4
107.5°	37.1	37.1	37.1	35.2	32.2	28.3	25.4	20.5	20.5	21.5	20.5
110°	30.3	30.3	29.3	28.3	25.4	22.5	19.5	16.6	16.6	16.6	15.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	25.4	25.4	24.4	23.4	20.5	17.6	15.6	13.7	13.7	13.7	12.7
115°	21.5	21.5	20.5	19.5	17.6	14.7	12.7	10.7	10.7	10.7	10.7
117.5°	18.6	18.6	17.6	16.6	14.7	12.7	10.7	8.8	8.8	8.8	8.8
120°	16.6	15.6	14.7	13.7	11.7	10.7	8.8	7.8	7.8	7.8	6.8
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°	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
2.5°	58.6	58.6	57.6	57.6	57.6	56.7	56.7	57.6	57.6	57.6	57.6
5°	62.5	61.6	59.6	57.6	56.7	55.7	54.7	54.7	56.7	56.7	56.7
7.5°	70.3	69.4	66.4	64.5	62.5	60.6	59.6	58.6	59.6	60.6	60.6
10°	78.2	77.2	73.3	70.3	69.4	67.4	66.4	65.5	66.4	66.4	66.4
12.5°	86.0	84.0	81.1	77.2	75.2	74.3	73.3	72.3	72.3	72.3	72.3
15°	92.8	89.9	87.0	84.0	82.1	80.1	79.1	78.2	79.1	80.1	80.1
17.5°	103.6	100.6	93.8	88.9	87.9	86.0	85.0	85.0	86.0	87.0	87.0
20°	115.3	109.4	101.6	96.7	95.8	92.8	91.8	91.8	92.8	93.8	93.8
22.5°	125.1	121.2	109.4	102.6	101.6	100.6	101.6	101.6	102.6	103.6	103.6
25°	159.3	143.6	127.0	122.1	121.2	119.2	117.2	116.3	117.2	120.2	121.2
27.5°	215.0	186.6	155.4	144.6	144.6	146.6	150.5	152.4	148.5	146.6	147.5
30°	252.1	214.0	169.0	159.3	161.2	171.0	179.8	185.6	181.7	178.8	179.8
32.5°	242.3	207.1	174.9	172.9	178.8	186.6	191.5	194.4	202.3	205.2	209.1
35°	220.8	194.4	176.8	184.7	188.6	188.6	188.6	188.6	203.2	216.9	220.8
37.5°	269.7	224.7	210.1	213.0	210.1	207.1	210.1	217.9	230.6	241.3	244.3
40°	316.6	259.9	235.5	233.5	232.5	242.3	259.9	273.6	277.5	267.7	269.7
42.5°	368.4	294.1	262.8	265.8	273.6	289.2	308.8	308.8	308.8	300.0	302.9
45°	417.2	334.2	315.6	323.4	323.4	331.2	342.0	335.1	343.9	347.8	352.7
47.5°	474.9	387.9	346.9	340.0	341.0	356.6	360.5	357.6	363.5	356.6	356.6
50°	492.4	396.7	364.4	390.8	390.8	373.2	358.6	360.5	377.1	395.7	399.6
52.5°	626.3	491.5	462.1	489.5	501.2	470.9	470.9	474.9	478.8	492.4	496.3
55°	937.0	700.6	612.6	676.1	684.9	703.5	754.3	746.5	701.5	679.1	677.1
57.5°	1401.1	1039.6	763.1	853.0	909.6	985.9	1024.0	1001.5	940.9	920.4	897.9
60°	1791.0	1423.6	988.8	1145.1	1230.1	1242.8	1229.1	1231.1	1185.2	1199.8	1194.0
62.5°	1935.6	1747.0	1271.2	1365.9	1378.6	1339.6	1375.7	1458.8	1384.5	1340.5	1333.7
65°	1978.5	1867.2	1350.3	1288.7	1277.0	1270.2	1412.8	1551.6	1385.5	1282.9	1281.9
67.5°	1935.6	1744.1	1249.7	1148.0	1175.4	1231.1	1416.7	1468.5	1312.2	1198.9	1191.0
70°	1879.9	1545.7	1124.6	1036.7	1100.2	1181.3	1299.5	1279.0	1217.4	1116.8	1111.9
72.5°	1677.6	1339.6	1044.5	971.2	1043.5	1067.0	1125.6	1116.8	1134.4	1070.9	1067.9
75°	1501.7	1230.1	996.6	910.6	945.8	941.9	988.8	999.5	1049.4	1022.0	1011.3
77.5°	1295.6	1069.9	878.4	778.7	792.4	791.4	813.9	820.7	855.9	857.9	846.1
80°	1014.2	838.3	685.9	586.2	588.2	570.6	573.5	572.6	579.4	587.2	576.5
82.5°	582.3	468.0	388.9	325.4	311.7	288.2	283.3	285.3	282.4	280.4	280.4
85°	285.3	221.8	204.2	182.7	174.9	169.0	172.0	177.8	180.8	174.9	172.0
87.5°	192.5	166.1	158.3	149.5	145.6	139.7	143.6	148.5	152.4	147.5	146.6
90°	152.4	131.9	129.9	128.0	125.1	120.2	124.1	129.9	132.9	129.0	127.0
92.5°	123.1	106.5	106.5	105.5	102.6	98.7	103.6	108.5	111.4	108.5	107.5
95°	94.8	82.1	85.0	83.1	80.1	79.1	82.1	86.0	87.9	86.0	86.0
97.5°	73.3	64.5	67.4	66.4	62.5	61.6	63.5	66.4	68.4	66.4	65.5
100°	49.8	45.9	49.8	49.8	45.9	44.0	45.9	48.9	49.8	49.8	48.9
102.5°	33.2	31.3	36.2	37.1	35.2	33.2	34.2	36.2	37.1	37.1	37.1
105°	23.4	23.4	28.3	29.3	27.4	25.4	27.4	28.3	28.3	28.3	28.3
107.5°	18.6	19.5	22.5	24.4	22.5	20.5	21.5	22.5	22.5	22.5	23.4
110°	15.6	15.6	18.6	20.5	18.6	17.6	17.6	17.6	17.6	18.6	20.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	12.7	13.7	15.6	16.6	15.6	14.7	14.7	14.7	14.7	15.6	18.6
115°	10.7	11.7	13.7	13.7	12.7	12.7	12.7	11.7	11.7	12.7	17.6
117.5°	8.8	9.8	10.7	10.7	10.7	9.8	9.8	9.8	9.8	11.7	18.6
120°	7.8	7.8	8.8	8.8	7.8	7.8	7.8	7.8	6.8	9.8	14.7
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)