

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: P588519

Luminaire Tested: **GAT-CA6-LED-80-727-U-33-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588519
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-80-727-U-33-5-6-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR
Light Source: (6) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7397 lumens
Efficiency: N/A
Efficacy: 87.6 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

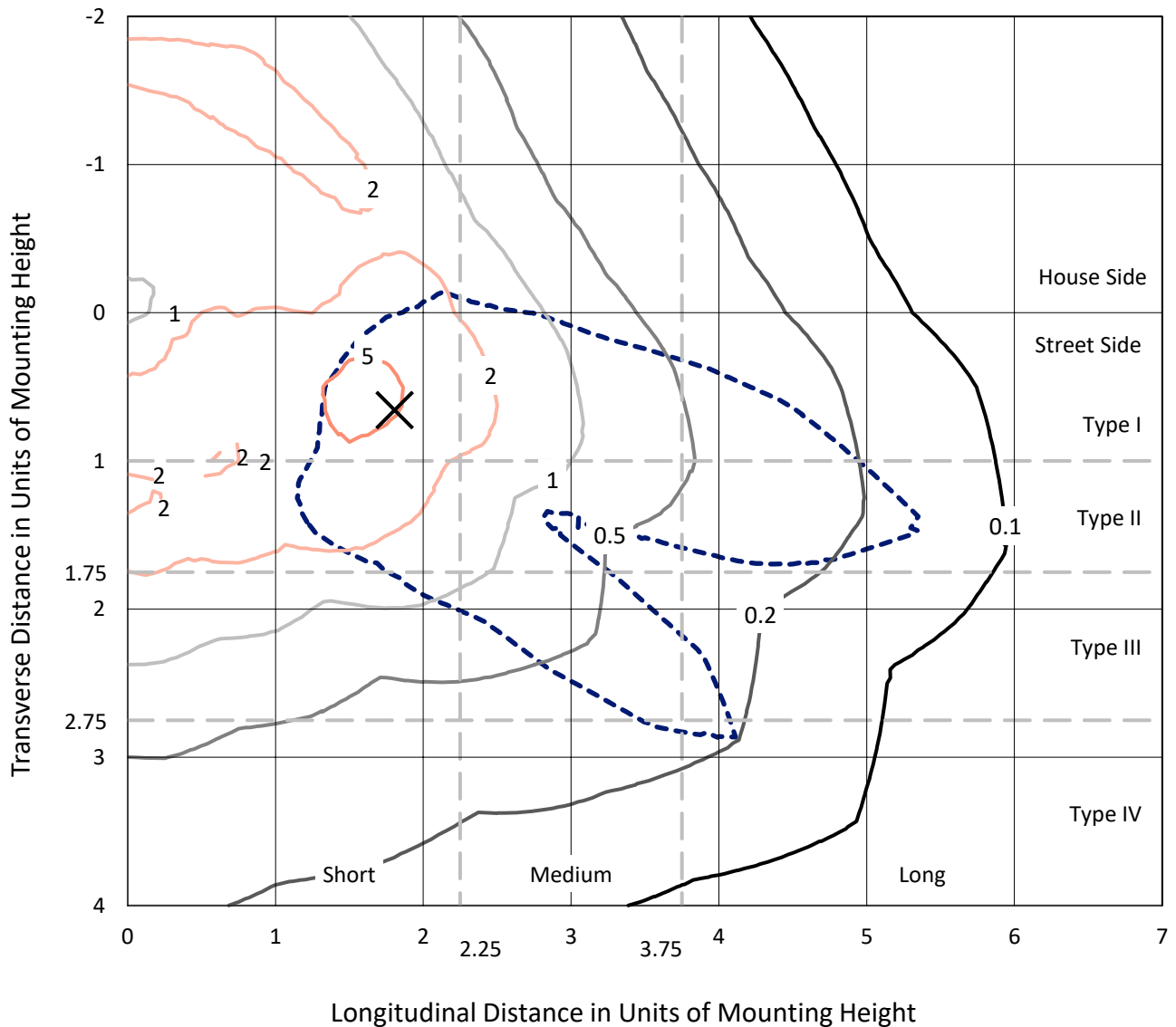
Input Watts (W): 84.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

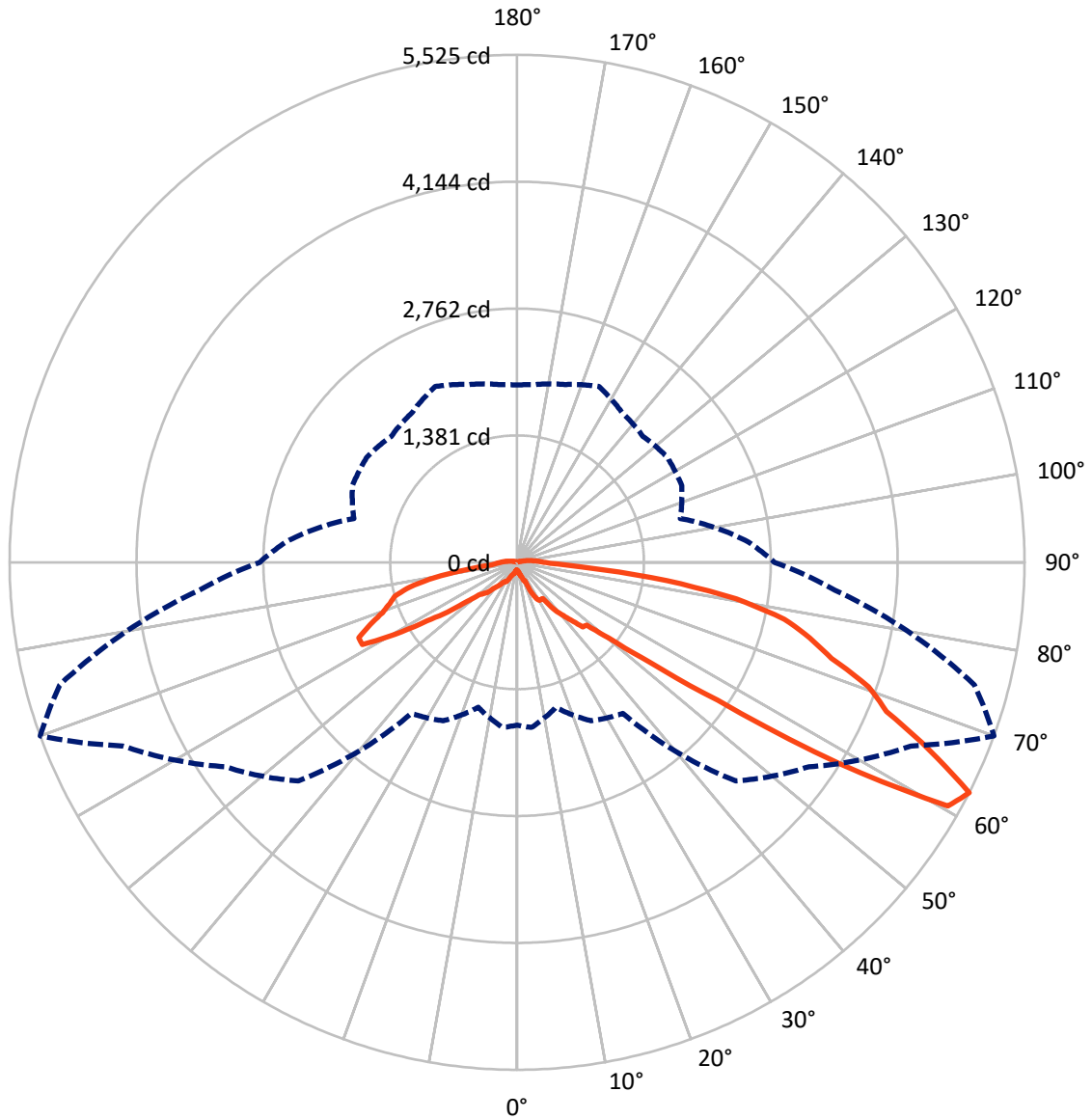
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.5 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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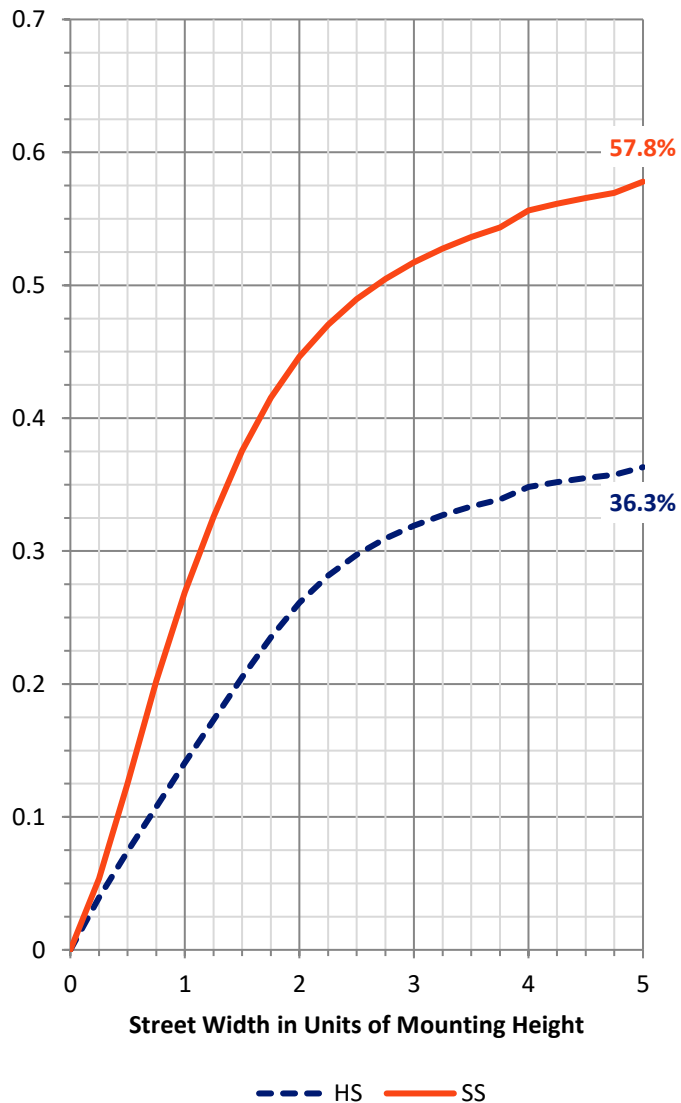
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2741.5	100.5	2842.0
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	4416.9	138.1	4555.0
	% Fixture	59.7	1.9	61.6
Total	Lumens	7158.4	238.6	7397.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.4	0.1
10°-20°	40.3	0.5
20°-30°	124.8	1.7
30°-40°	267.6	3.6
40°-50°	501.4	6.8
50°-60°	1301.1	17.6
60°-70°	2383.3	32.2
70°-80°	1911.7	25.8
80°-90°	619.0	8.4
90°-100°	163.1	2.2
100°-110°	53.1	0.7
110°-120°	20.8	0.3
120°-130°	1.6	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°	7158.4	96.8
0°-180°	7397.0	100.0

Coefficient of Utilization



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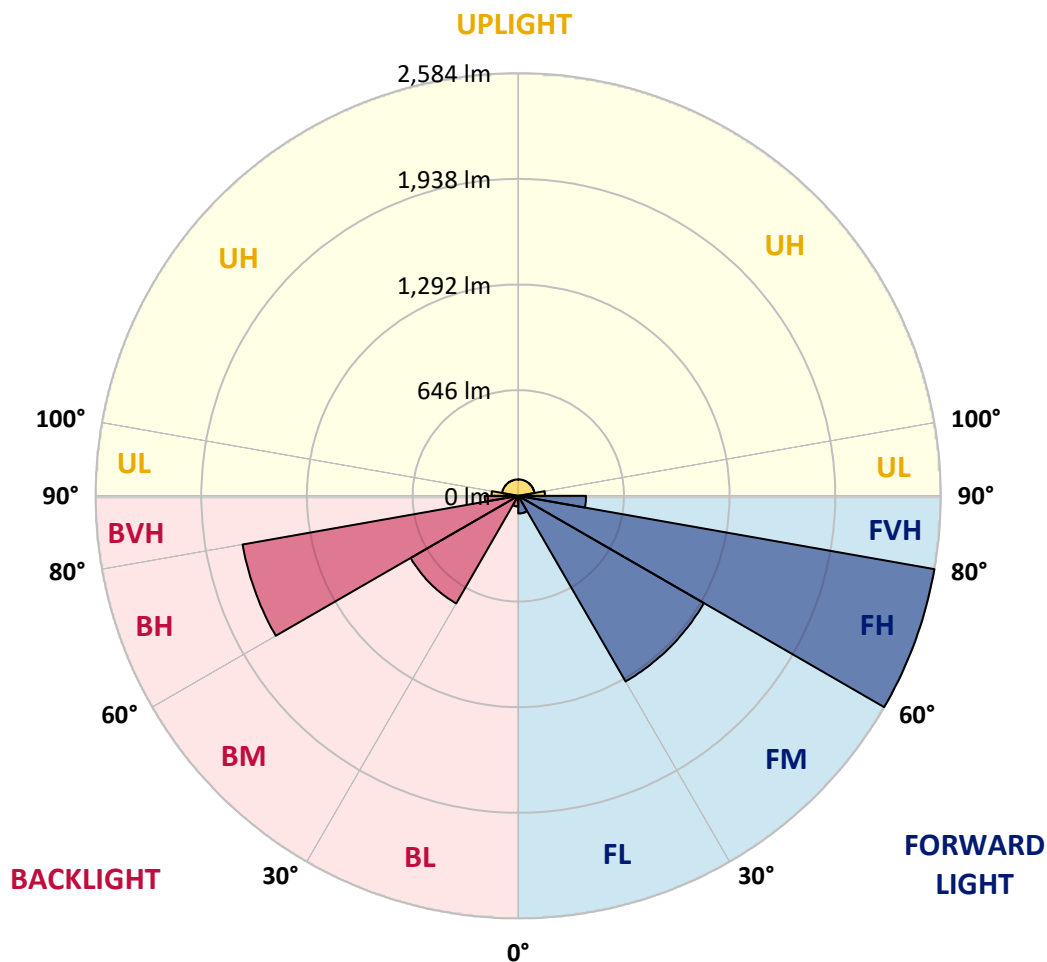
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	108.5	1.5			
FM (30°-60°)	1310.6	17.7			
FH (60°-80°)	2583.6	34.9			G2/5000
FVH (80°-90°)	414.1	5.6			G3/500
BL (0°-30°)	65.8	0.9	B0/110		
BM (30°-60°)	759.4	10.3	B1/1000		
BH (60°-80°)	1711.4	23.1	B3/2500		G3/2500
BVH (80°-90°)	204.9	2.8			G2/225
UL (90°-100°)	163.1	2.2		U3/500	
UH (100°-180°)	100.5	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°	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
2.5°	94.7	94.7	94.7	93.3	91.9	90.5	89.1	89.1	87.7	86.3	84.8
5°	103.2	101.8	100.4	97.6	96.2	96.2	94.7	94.7	94.7	93.3	91.9
7.5°	114.5	114.5	113.1	111.7	110.3	108.9	107.5	106.1	106.1	104.6	103.2
10°	130.1	130.1	130.1	128.7	128.7	127.3	124.4	123.0	120.2	118.8	114.5
12.5°	145.6	147.1	144.2	144.2	144.2	142.8	140.0	138.6	135.8	132.9	127.3
15°	161.2	159.8	158.4	157.0	159.8	159.8	158.4	158.4	152.7	148.5	138.6
17.5°	175.3	175.3	176.8	176.8	181.0	179.6	179.6	178.2	175.3	168.3	155.5
20°	198.0	199.4	199.4	199.4	213.5	219.2	220.6	222.0	217.8	203.6	178.2
22.5°	220.6	222.0	231.9	229.1	229.1	229.1	243.2	236.1	217.8	200.8	186.7
25°	298.4	302.6	305.4	315.3	326.7	357.8	407.3	391.7	363.4	305.4	257.4
27.5°	373.3	379.0	429.9	500.6	510.5	473.7	509.1	462.4	448.3	388.9	349.3
30°	407.3	417.2	504.8	552.9	569.9	521.8	572.7	483.6	479.4	436.9	403.0
32.5°	415.7	422.8	519.0	524.6	528.9	523.2	599.6	490.7	480.8	438.4	388.9
35°	403.0	411.5	476.5	444.0	445.4	545.8	688.7	528.9	483.6	410.1	354.9
37.5°	496.3	496.3	551.5	560.0	596.7	718.3	902.2	698.6	647.6	534.5	466.6
40°	565.6	572.7	660.4	692.9	698.6	801.8	1129.8	818.7	746.6	598.2	545.8
42.5°	659.0	657.5	738.1	760.8	776.3	814.5	1155.3	941.8	856.9	677.3	637.7
45°	674.5	697.1	770.7	745.2	765.0	862.6	1206.2	1115.7	1002.6	827.2	745.2
47.5°	612.3	643.4	791.9	770.7	691.5	736.7	967.2	1145.4	1021.0	849.9	791.9
50°	660.4	677.3	750.9	736.7	630.7	783.4	1062.0	1435.3	1296.7	1011.1	862.6
52.5°	854.1	890.9	903.6	958.7	907.8	1172.3	1486.2	1818.5	1800.1	1463.6	1138.3
55°	1097.3	1151.1	1207.6	1416.9	1446.6	1841.1	2074.4	2429.4	2650.0	2314.8	1746.4
57.5°	1360.3	1436.7	1418.3	1722.3	1769.0	2494.4	2709.4	3540.8	4130.5	3675.2	2558.1
60°	1614.9	1665.8	1562.5	1829.8	1918.9	3140.7	3456.0	4611.3	5387.6	4902.6	3150.6
62.5°	1771.8	1804.4	1634.7	1903.3	2008.0	3365.5	3878.8	4731.5	5524.8	5155.7	3471.5
65°	1770.4	1761.9	1568.2	1801.5	1787.4	3106.7	3748.7	3976.4	4935.1	4872.9	3512.6
67.5°	1701.1	1704.0	1500.3	1685.6	1627.6	2739.1	3473.0	3364.1	4338.4	4421.8	3416.4
70°	1634.7	1668.6	1474.9	1636.1	1609.2	2634.4	3352.8	3027.5	4058.4	4216.8	3314.6
72.5°	1541.3	1573.9	1391.4	1532.9	1542.8	2425.1	3147.7	2642.9	3579.0	3769.9	2971.0
75°	1539.9	1580.9	1409.8	1534.3	1549.8	2306.4	3173.2	2510.0	3292.0	3547.9	2773.0
77.5°	1452.3	1489.0	1330.6	1446.6	1490.4	2087.2	3027.5	2344.5	2973.8	3260.8	2514.2
80°	1166.6	1216.1	1086.0	1162.4	1186.4	1565.4	2428.0	1920.3	2419.5	2706.5	2054.6
82.5°	797.5	842.8	756.5	813.1	844.2	1026.6	1678.5	1383.0	1644.6	1819.9	1286.8
85°	461.0	514.7	463.8	456.7	472.3	541.6	903.6	735.3	765.0	804.6	571.3
87.5°	289.9	298.4	272.9	274.3	277.2	297.0	411.5	328.1	362.0	410.1	346.4
90°	230.5	239.0	220.6	222.0	217.8	236.1	308.3	250.3	278.6	321.0	274.3
92.5°	199.4	205.0	192.3	195.1	192.3	206.5	257.4	206.5	229.1	263.0	224.8
95°	169.7	173.9	166.9	168.3	159.8	168.3	200.8	157.0	173.9	198.0	168.3
97.5°	135.8	140.0	135.8	135.8	127.3	131.5	154.1	121.6	132.9	148.5	127.3
100°	107.5	108.9	107.5	106.1	99.0	99.0	107.5	87.7	91.9	101.8	87.7
102.5°	82.0	83.4	82.0	80.6	72.1	67.9	67.9	56.6	59.4	62.2	55.1
105°	65.0	66.5	65.0	62.2	55.1	50.9	49.5	41.0	41.0	42.4	38.2
107.5°	53.7	53.7	53.7	50.9	46.7	41.0	36.8	29.7	29.7	31.1	29.7
110°	43.8	43.8	42.4	41.0	36.8	32.5	28.3	24.0	24.0	24.0	22.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	36.8	36.8	35.4	33.9	29.7	25.5	22.6	19.8	19.8	19.8	18.4
115°	31.1	31.1	29.7	28.3	25.5	21.2	18.4	15.6	15.6	15.6	15.6
117.5°	26.9	26.9	25.5	24.0	21.2	18.4	15.6	12.7	12.7	12.7	12.7
120°	24.0	22.6	21.2	19.8	17.0	15.6	12.7	11.3	11.3	11.3	9.9
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
2.5°	84.8	84.8	83.4	83.4	83.4	82.0	82.0	83.4	83.4	83.4	83.4
5°	90.5	89.1	86.3	83.4	82.0	80.6	79.2	79.2	82.0	82.0	82.0
7.5°	101.8	100.4	96.2	93.3	90.5	87.7	86.3	84.8	86.3	87.7	87.7
10°	113.1	111.7	106.1	101.8	100.4	97.6	96.2	94.7	96.2	96.2	96.2
12.5°	124.4	121.6	117.4	111.7	108.9	107.5	106.1	104.6	104.6	104.6	104.6
15°	134.3	130.1	125.9	121.6	118.8	116.0	114.5	113.1	114.5	116.0	116.0
17.5°	149.9	145.6	135.8	128.7	127.3	124.4	123.0	123.0	124.4	125.9	125.9
20°	166.9	158.4	147.1	140.0	138.6	134.3	132.9	132.9	134.3	135.8	135.8
22.5°	181.0	175.3	158.4	148.5	147.1	145.6	147.1	147.1	148.5	149.9	149.9
25°	230.5	207.9	183.8	176.8	175.3	172.5	169.7	168.3	169.7	173.9	175.3
27.5°	311.1	270.1	224.8	209.3	209.3	212.1	217.8	220.6	214.9	212.1	213.5
30°	364.8	309.7	244.6	230.5	233.3	247.5	260.2	268.7	263.0	258.8	260.2
32.5°	350.7	299.8	253.1	250.3	258.8	270.1	277.2	281.4	292.7	297.0	302.6
35°	319.6	281.4	255.9	267.3	272.9	272.9	272.9	272.9	294.1	313.9	319.6
37.5°	390.3	325.2	304.0	308.3	304.0	299.8	304.0	315.3	333.7	349.3	353.5
40°	458.2	376.1	340.8	338.0	336.5	350.7	376.1	395.9	401.6	387.5	390.3
42.5°	533.1	425.6	380.4	384.6	395.9	418.6	446.8	446.8	446.8	434.1	438.4
45°	603.8	483.6	456.7	468.1	468.1	479.4	494.9	485.0	497.8	503.4	510.5
47.5°	687.2	561.4	502.0	492.1	493.5	516.1	521.8	517.6	526.0	516.1	516.1
50°	712.7	574.1	527.4	565.6	565.6	540.2	519.0	521.8	545.8	572.7	578.4
52.5°	906.4	711.3	668.9	708.4	725.4	681.6	681.6	687.2	692.9	712.7	718.3
55°	1356.1	1013.9	886.6	978.5	991.3	1018.1	1091.7	1080.4	1015.3	982.8	980.0
57.5°	2027.8	1504.6	1104.4	1234.5	1316.5	1426.8	1481.9	1449.4	1361.8	1332.1	1299.5
60°	2592.0	2060.3	1431.0	1657.3	1780.3	1798.7	1778.9	1781.7	1715.3	1736.5	1728.0
62.5°	2801.3	2528.4	1839.7	1976.9	1995.3	1938.7	1991.0	2111.2	2003.7	1940.1	1930.2
65°	2863.5	2702.3	1954.2	1865.2	1848.2	1838.3	2044.7	2245.5	2005.2	1856.7	1855.3
67.5°	2801.3	2524.1	1808.6	1661.5	1701.1	1781.7	2050.4	2125.3	1899.1	1735.1	1723.8
70°	2720.7	2237.1	1627.6	1500.3	1592.2	1709.6	1880.7	1851.0	1761.9	1616.3	1609.2
72.5°	2428.0	1938.7	1511.6	1405.6	1510.2	1544.2	1629.0	1616.3	1641.7	1549.8	1545.6
75°	2173.4	1780.3	1442.4	1317.9	1368.8	1363.2	1431.0	1446.6	1518.7	1479.1	1463.6
77.5°	1875.1	1548.4	1271.3	1127.0	1146.8	1145.4	1177.9	1187.8	1238.7	1241.6	1224.6
80°	1467.8	1213.3	992.7	848.4	851.3	825.8	830.1	828.6	838.5	849.9	834.3
82.5°	842.8	677.3	562.8	470.9	451.1	417.2	410.1	412.9	408.7	405.8	405.8
85°	412.9	321.0	295.5	264.4	253.1	244.6	248.9	257.4	261.6	253.1	248.9
87.5°	278.6	240.4	229.1	216.4	210.7	202.2	207.9	214.9	220.6	213.5	212.1
90°	220.6	190.9	188.1	185.2	181.0	173.9	179.6	188.1	192.3	186.7	183.8
92.5°	178.2	154.1	154.1	152.7	148.5	142.8	149.9	157.0	161.2	157.0	155.5
95°	137.2	118.8	123.0	120.2	116.0	114.5	118.8	124.4	127.3	124.4	124.4
97.5°	106.1	93.3	97.6	96.2	90.5	89.1	91.9	96.2	99.0	96.2	94.7
100°	72.1	66.5	72.1	72.1	66.5	63.6	66.5	70.7	72.1	72.1	70.7
102.5°	48.1	45.3	52.3	53.7	50.9	48.1	49.5	52.3	53.7	53.7	53.7
105°	33.9	33.9	41.0	42.4	39.6	36.8	39.6	41.0	41.0	41.0	41.0
107.5°	26.9	28.3	32.5	35.4	32.5	29.7	31.1	32.5	32.5	32.5	33.9
110°	22.6	22.6	26.9	29.7	26.9	25.5	25.5	25.5	25.5	26.9	29.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	18.4	19.8	22.6	24.0	22.6	21.2	21.2	21.2	21.2	22.6	26.9
115°	15.6	17.0	19.8	19.8	18.4	18.4	18.4	17.0	17.0	18.4	25.5
117.5°	12.7	14.1	15.6	15.6	15.6	14.1	14.1	14.1	14.1	17.0	26.9
120°	11.3	11.3	12.7	12.7	11.3	11.3	11.3	11.3	9.9	14.1	21.2
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)