

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: P588536

Luminaire Tested: **GAT-CA6-LED-80-760-U-33-5-X-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-9)
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-80-760-U-33-5-X-X
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR
Light Source: (6) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11627 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U4 - G5

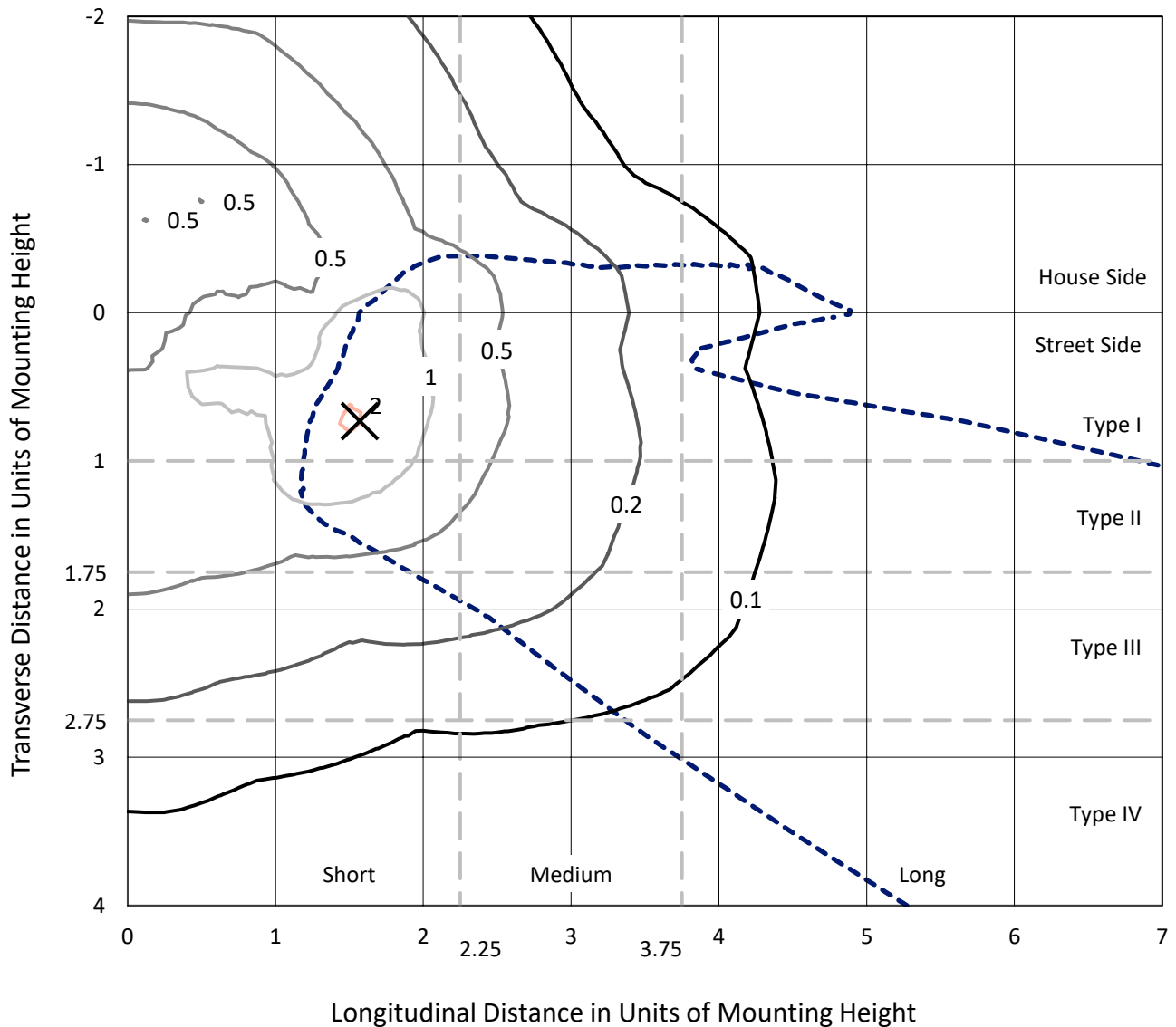
Input Watts (W): 84.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

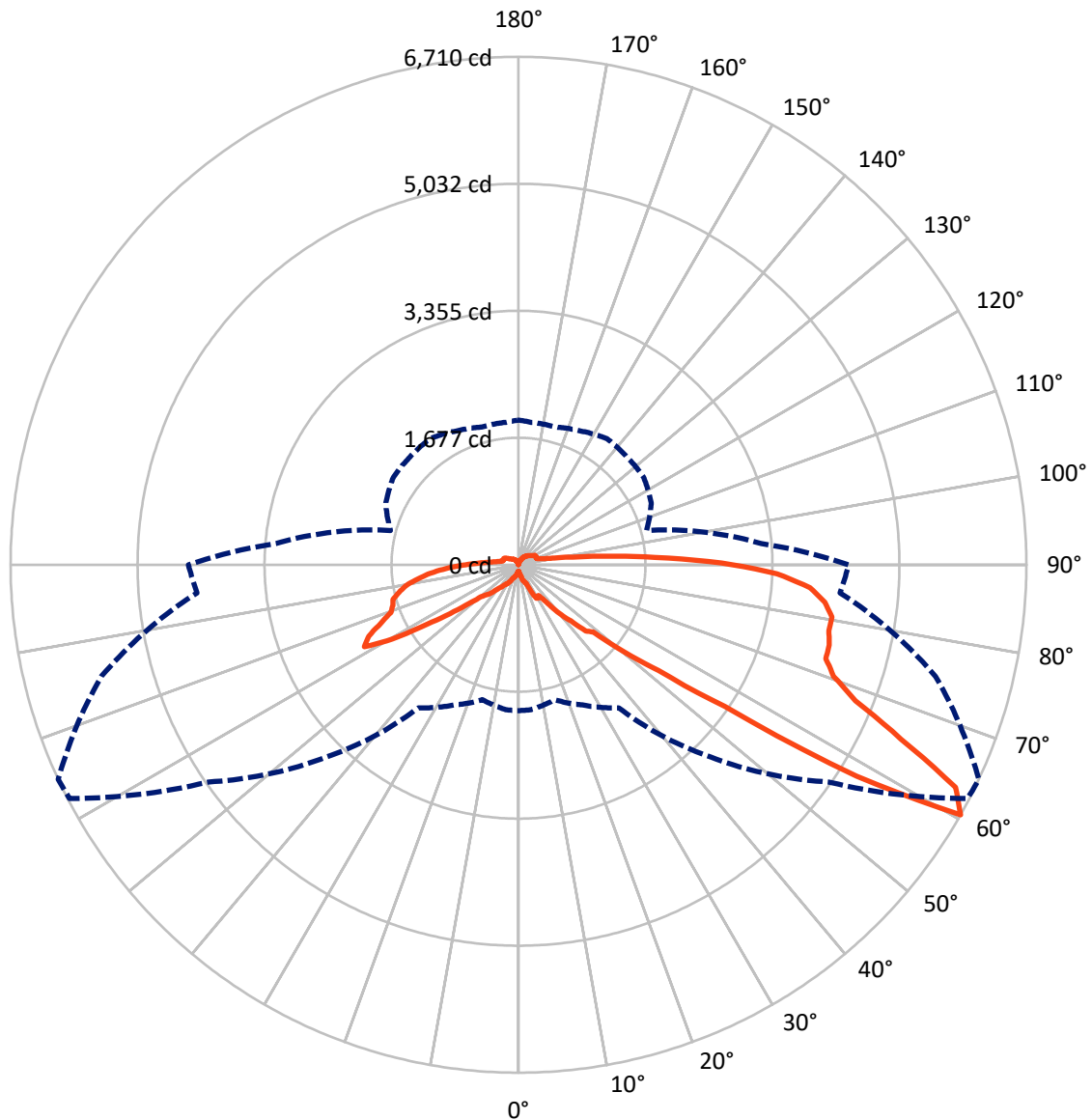
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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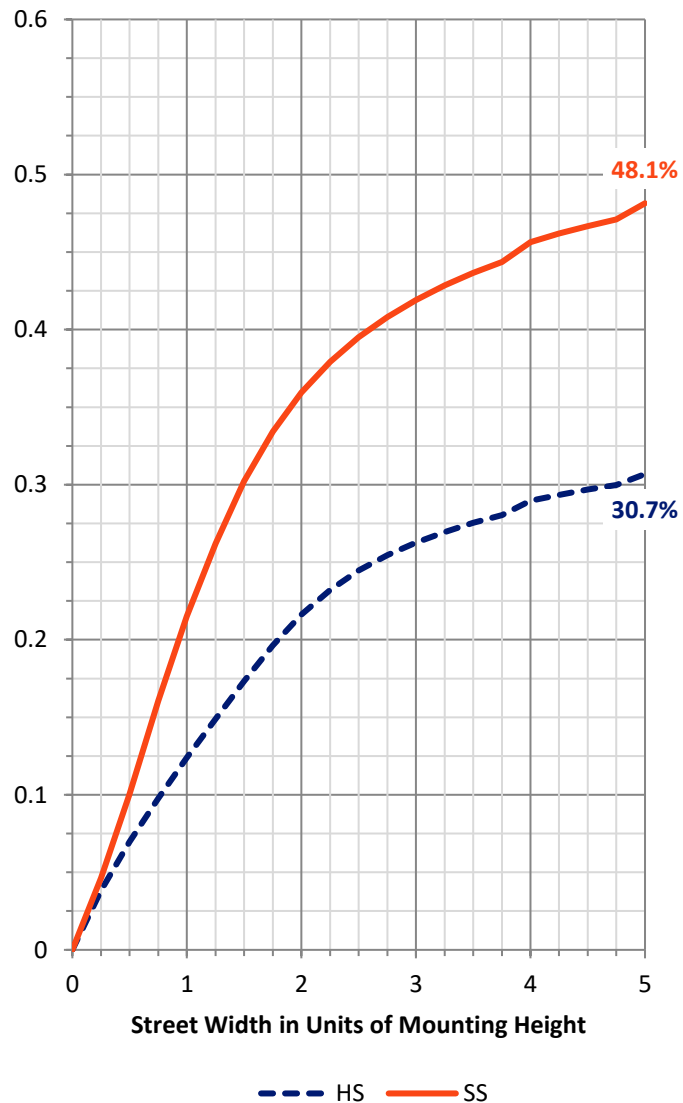
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3877.3	620.9	4498.2
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	6203.2	925.5	7128.7
	% Fixture	53.4	8.0	61.3
Total	Lumens	10080.5	1546.4	11627.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.2	0.1
10°-20°	49.6	0.4
20°-30°	142.0	1.2
30°-40°	305.8	2.6
40°-50°	578.7	5.0
50°-60°	1616.6	13.9
60°-70°	2882.0	24.8
70°-80°	2523.2	21.7
80°-90°	1971.5	17.0
90°-100°	745.3	6.4
100°-110°	256.4	2.2
110°-120°	209.6	1.8
120°-130°	140.8	1.2
130°-140°	96.7	0.8
140°-150°	60.8	0.5
150°-160°	28.2	0.2
160°-170°	8.0	0.1
170°-180°	0.7	0.0
0°-90°	10080.5	86.7
0°-180°	11627.0	100.0

Coefficient of Utilization

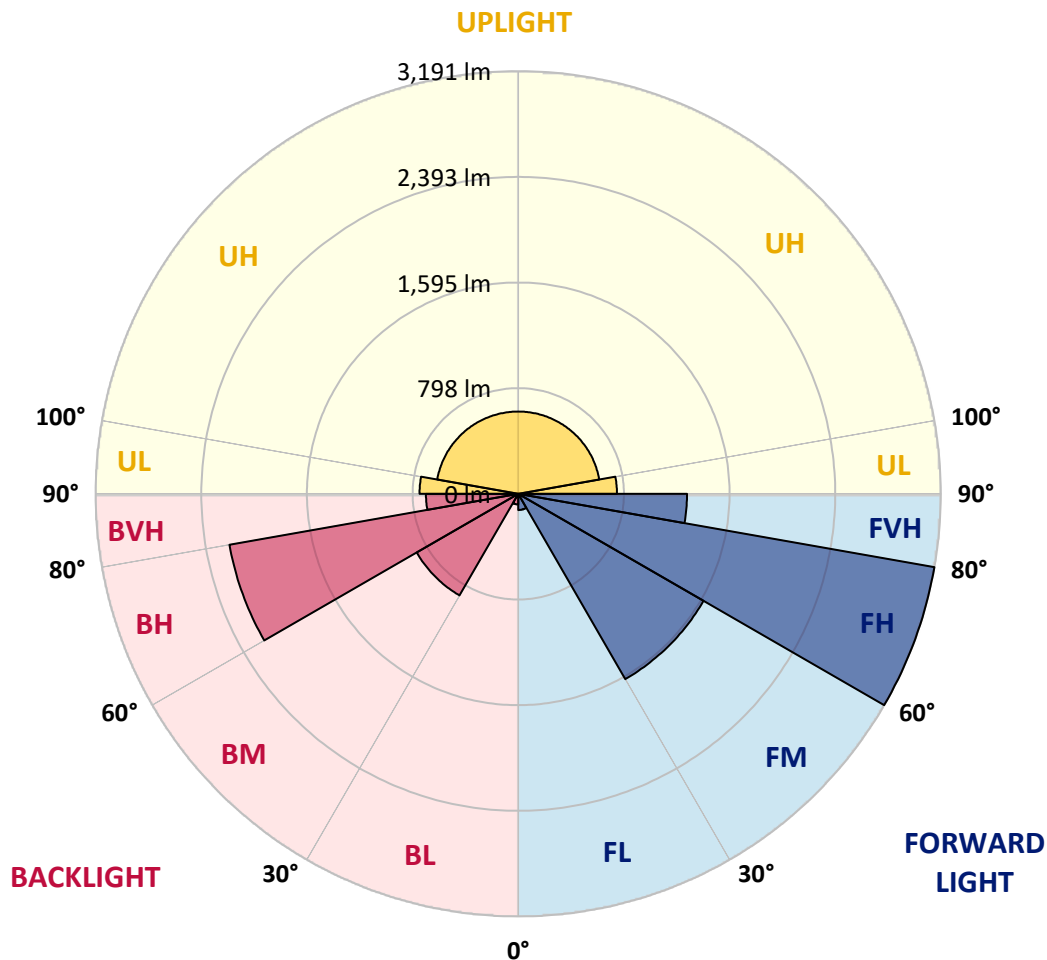


REPORT NUMBER: P588536
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	122.5	1.1			
FM (30°-60°)	1615.4	13.9			
FH (60°-80°)	3191.0	27.4			G2/5000
FVH (80°-90°)	1274.3	11.0			G5
BL (0°-30°)	80.3	0.7	B0/110		
BM (30°-60°)	885.6	7.6	B1/1000		
BH (60°-80°)	2214.2	19.0	B3/2500		G3/2500
BVH (80°-90°)	697.2	6.0			G4/750
UL (90°-100°)	745.3	6.4		U4/1000	
UH (100°-180°)	620.9	5.3		U4/1000	

BUG Rating: B3-U4-G5
 Type III Short





REPORT NUMBER: P588536
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
2.5°	102.5	99.5	96.5	96.5	95.0	93.5	93.5	90.4	92.0	90.4	90.4
5°	120.6	119.1	116.1	117.6	114.6	113.1	113.1	111.5	110.0	108.5	104.0
7.5°	140.2	140.2	141.7	143.2	138.7	134.2	132.7	129.6	129.6	128.1	125.1
10°	161.3	159.8	153.8	153.8	150.7	147.7	149.2	147.7	147.7	147.7	141.7
12.5°	167.3	165.8	161.3	161.3	161.3	159.8	165.8	164.3	165.8	164.3	155.3
15°	188.4	186.9	185.4	186.9	193.0	205.0	220.1	214.1	215.6	212.5	179.4
17.5°	197.5	202.0	205.0	206.5	212.5	212.5	215.6	214.1	220.1	224.6	205.0
20°	229.1	226.1	229.1	239.7	254.8	256.3	251.7	251.7	254.8	256.3	218.6
22.5°	242.7	241.2	253.2	244.2	244.2	251.7	278.9	269.8	269.8	266.8	235.2
25°	315.1	321.1	333.1	348.2	384.4	394.9	425.1	391.9	396.5	349.7	298.5
27.5°	378.4	382.9	453.7	517.0	545.7	530.6	556.2	494.4	500.5	506.5	435.6
30°	398.0	407.0	509.5	556.2	593.9	563.8	596.9	515.5	511.0	545.7	517.0
32.5°	382.9	391.9	500.5	520.1	559.3	670.8	628.6	497.4	483.9	500.5	535.1
35°	420.6	426.6	491.4	444.7	480.9	937.6	823.1	580.4	553.2	461.3	512.5
37.5°	505.0	505.0	581.9	615.0	642.2	1106.4	1080.8	722.1	701.0	539.7	592.4
40°	612.0	609.0	704.0	726.6	738.6	1002.4	1306.9	921.0	874.3	634.6	771.8
42.5°	676.8	670.8	747.7	771.8	771.8	848.7	1478.8	1121.5	1013.0	740.1	943.6
45°	702.5	708.5	808.0	777.8	800.4	871.3	1662.7	1398.9	1246.6	868.3	1094.4
47.5°	636.1	645.2	788.4	791.4	676.8	696.4	1490.8	1453.2	1328.0	930.1	1142.6
50°	780.8	786.9	838.1	803.5	747.7	881.8	1775.7	1867.7	1813.4	1151.7	1205.9
52.5°	1071.8	1098.9	1147.1	1177.3	1160.7	1481.8	2381.7	2365.1	2319.9	1729.0	1646.1
55°	1388.3	1410.9	1478.8	1661.2	1799.9	2218.9	2962.1	3308.8	3305.8	2808.3	2565.6
57.5°	1676.3	1677.8	1686.8	1911.4	2125.5	2897.3	3880.1	5153.9	5268.4	4486.1	3673.6
60°	1926.5	1922.0	1845.1	2045.6	2306.4	3592.2	5001.6	6686.9	6709.5	5704.1	4261.5
62.5°	1994.3	1980.8	1869.2	2056.1	2279.2	3605.8	5288.0	6504.5	6478.9	5790.0	4338.4
65°	1935.5	1922.0	1780.3	1947.6	2053.1	3277.1	4884.1	5594.0	5551.8	5289.5	4130.3
67.5°	1848.1	1857.1	1717.0	1845.1	1917.4	3073.6	4459.0	4813.2	4801.1	4929.3	3957.0
70°	1721.5	1729.0	1600.9	1759.2	1864.7	2944.0	4052.0	4436.3	4415.2	4603.7	3702.2
72.5°	1726.0	1748.6	1596.4	1715.4	1825.5	2766.1	3868.0	4306.7	4244.9	4273.5	3396.2
75°	1738.1	1768.2	1606.9	1713.9	1816.4	2701.3	3846.9	4317.3	4238.9	4154.5	3280.2
77.5°	1742.6	1786.3	1612.9	1730.5	1819.5	2612.4	3798.7	4264.5	4190.6	4039.9	3143.0
80°	1706.4	1753.1	1587.3	1732.0	1799.9	2436.0	3676.6	4255.5	4199.7	4024.8	3087.2
82.5°	1634.0	1680.8	1537.6	1656.7	1762.2	2256.6	3504.8	4079.1	4076.1	3880.1	2969.6
85°	1475.8	1527.0	1418.5	1528.5	1658.2	2018.4	3158.1	3779.1	3862.0	3703.7	2811.3
87.5°	1323.5	1374.8	1317.5	1379.3	1510.4	1754.6	2713.4	3262.1	3417.3	3286.2	2414.9
90°	1150.2	1202.9	1156.2	1132.1	1237.6	1400.4	2169.2	2537.0	2683.2	2603.3	1777.3
92.5°	921.0	966.3	922.5	866.8	930.1	1028.1	1611.4	1775.7	1810.4	1733.5	1165.2
95°	696.4	729.6	690.4	634.6	642.2	704.0	1111.0	1163.7	1154.7	1062.7	740.1
97.5°	483.9	503.5	477.9	438.7	452.2	491.4	735.6	729.6	729.6	649.7	483.9
100°	336.2	343.7	331.6	313.5	324.1	349.7	494.4	492.9	477.9	438.7	352.7
102.5°	266.8	268.3	256.3	244.2	238.2	262.3	357.3	355.8	358.8	340.7	275.9
105°	235.2	233.7	223.1	212.5	200.5	224.6	283.4	295.5	293.9	278.9	236.7
107.5°	215.6	214.1	203.5	194.5	183.9	205.0	245.7	262.3	260.8	259.3	223.1
110°	200.5	199.0	189.9	180.9	171.8	196.0	230.6	256.3	256.3	256.3	226.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	189.9	189.9	182.4	174.9	167.3	194.5	221.6	251.7	251.7	259.3	236.7
115°	183.9	182.4	176.4	171.8	165.8	196.0	218.6	248.7	250.2	260.8	235.2
117.5°	179.4	177.9	173.4	167.3	164.3	193.0	220.1	254.8	253.2	269.8	230.6
120°	171.8	168.8	162.8	156.8	153.8	177.9	214.1	247.2	244.2	251.7	212.5
122.5°	165.8	156.8	146.2	141.7	141.7	161.3	200.5	223.1	220.1	214.1	191.4
125°	152.2	143.2	134.2	132.7	134.2	150.7	191.4	205.0	206.5	202.0	180.9
127.5°	137.2	131.1	126.6	126.6	129.6	147.7	188.4	197.5	197.5	188.4	171.8
130°	129.6	128.1	125.1	125.1	131.1	149.2	183.9	186.9	186.9	174.9	167.3
132.5°	126.6	123.6	120.6	120.6	126.6	144.7	171.8	177.9	176.4	164.3	158.3
135°	120.6	119.1	116.1	116.1	123.6	141.7	161.3	167.3	165.8	150.7	146.2
137.5°	117.6	114.6	114.6	114.6	122.1	140.2	152.2	156.8	155.3	140.2	135.7
140°	113.1	111.5	108.5	108.5	119.1	135.7	143.2	144.7	143.2	131.1	126.6
142.5°	105.5	104.0	102.5	105.5	116.1	128.1	134.2	134.2	132.7	125.1	119.1
145°	101.0	99.5	98.0	105.5	114.6	120.6	126.6	122.1	122.1	117.6	111.5
147.5°	96.5	95.0	95.0	101.0	108.5	108.5	113.1	111.5	113.1	111.5	105.5
150°	87.4	85.9	85.9	90.4	92.0	92.0	96.5	96.5	96.5	96.5	92.0
152.5°	76.9	75.4	76.9	78.4	78.4	78.4	81.4	82.9	82.9	81.4	79.9
155°	66.3	66.3	66.3	67.8	67.8	66.3	70.8	70.8	70.8	70.8	69.3
157.5°	58.8	58.8	58.8	58.8	58.8	57.3	60.3	60.3	61.8	60.3	60.3
160°	51.3	49.7	49.7	49.7	49.7	48.2	49.7	49.7	49.7	51.3	51.3
162.5°	40.7	39.2	39.2	39.2	39.2	36.2	39.2	37.7	39.2	39.2	40.7
165°	33.2	31.7	31.7	31.7	30.1	28.6	30.1	28.6	28.6	28.6	30.1
167.5°	25.6	25.6	24.1	25.6	24.1	21.1	21.1	19.6	19.6	19.6	19.6
170°	19.6	18.1	16.6	18.1	16.6	13.6	13.6	12.1	12.1	10.6	10.6
172.5°	13.6	12.1	10.6	12.1	10.6	7.5	7.5	4.5	4.5	4.5	4.5
175°	12.1	10.6	9.0	10.6	9.0	6.0	4.5	3.0	3.0	3.0	3.0
177.5°	12.1	10.6	9.0	10.6	9.0	6.0	4.5	3.0	3.0	3.0	3.0
180°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
2.5°	90.4	88.9	87.4	90.4	88.9	90.4	92.0	93.5	93.5	92.0	92.0
5°	104.0	102.5	99.5	98.0	95.0	95.0	95.0	98.0	98.0	96.5	98.0
7.5°	123.6	120.6	116.1	113.1	108.5	108.5	107.0	110.0	111.5	108.5	110.0
10°	138.7	137.2	131.1	126.6	122.1	120.6	120.6	122.1	122.1	120.6	120.6
12.5°	152.2	149.2	143.2	138.7	132.7	131.1	131.1	132.7	132.7	131.1	131.1
15°	171.8	162.8	156.8	152.2	146.2	144.7	143.2	144.7	146.2	143.2	143.2
17.5°	199.0	188.4	174.9	162.8	156.8	159.8	161.3	162.8	161.3	156.8	156.8
20°	214.1	208.0	189.9	180.9	173.4	173.4	173.4	173.4	173.4	171.8	173.4
22.5°	224.6	215.6	193.0	186.9	182.4	185.4	188.4	189.9	189.9	188.4	188.4
25°	272.8	239.7	217.1	212.5	206.5	208.0	205.0	205.0	206.5	205.0	208.0
27.5°	375.3	321.1	269.8	251.7	247.2	247.2	250.2	250.2	250.2	250.2	248.7
30°	450.7	387.4	303.0	278.9	275.9	289.4	297.0	303.0	300.0	295.5	295.5
32.5°	462.8	393.4	309.0	300.0	307.5	318.1	325.6	330.1	334.6	333.1	331.6
35°	437.2	363.3	304.5	316.6	322.6	328.6	330.1	327.1	340.7	346.7	348.2
37.5°	488.4	407.0	354.2	363.3	355.8	349.7	352.7	354.2	372.3	381.4	390.4
40°	624.1	491.4	402.5	398.0	393.4	407.0	425.1	434.1	432.6	426.6	428.1
42.5°	755.2	574.3	453.7	452.2	450.7	474.8	503.5	502.0	488.4	477.9	477.9
45°	889.4	654.2	535.1	536.6	533.6	542.7	550.2	544.2	545.7	548.7	551.7
47.5°	972.3	726.6	586.4	581.9	562.3	580.4	601.5	587.9	583.4	575.8	578.9
50°	991.9	744.7	616.5	649.7	631.6	618.0	595.4	586.4	603.0	615.0	624.1
52.5°	1288.8	919.5	770.3	823.1	798.9	750.7	746.2	731.1	749.2	750.7	761.2
55°	2160.1	1474.3	1061.2	1112.5	1114.0	1097.4	1172.8	1130.6	1092.9	1076.3	1070.3
57.5°	3405.3	2279.2	1373.3	1438.1	1499.9	1558.7	1661.2	1575.3	1466.7	1453.2	1468.2
60°	4361.0	3218.3	1751.6	1934.0	2016.9	2019.9	2033.5	1949.1	1882.8	1888.8	1909.9
62.5°	4566.0	4002.2	2231.0	2306.4	2313.9	2258.1	2282.2	2336.5	2243.0	2169.2	2188.8
65°	4428.8	4312.7	2387.8	2191.8	2179.7	2188.8	2353.1	2503.8	2315.4	2128.5	2128.5
67.5°	4163.5	4076.1	2228.0	1971.7	2004.9	2107.4	2315.4	2390.8	2190.3	1991.3	1991.3
70°	3880.1	3705.2	2048.6	1796.8	1878.2	1997.3	2133.0	2139.0	2021.5	1879.8	1870.7
72.5°	3574.1	3415.8	1971.7	1745.6	1783.3	1804.4	1878.2	1925.0	1911.4	1819.5	1818.0
75°	3483.7	3355.5	1970.2	1721.5	1698.9	1691.3	1742.6	1843.6	1890.3	1836.0	1839.1
77.5°	3346.5	3269.6	1878.2	1620.5	1596.4	1596.4	1623.5	1704.9	1775.7	1753.1	1760.7
80°	3251.5	3135.4	1738.1	1510.4	1477.3	1481.8	1484.8	1540.6	1606.9	1609.9	1609.9
82.5°	3069.1	2850.5	1525.5	1346.1	1323.5	1329.5	1319.0	1350.7	1368.7	1391.4	1386.8
85°	2769.1	2460.1	1288.8	1166.7	1130.6	1118.5	1109.5	1111.0	1121.5	1117.0	1098.9
87.5°	2319.9	1950.6	1028.1	957.2	915.0	884.9	872.8	857.7	856.2	839.6	845.7
90°	1712.4	1338.6	762.8	737.1	707.0	675.3	658.7	643.7	631.6	615.0	609.0
92.5°	1117.0	862.2	557.7	544.2	524.6	506.5	499.0	491.4	488.4	474.8	479.4
95°	697.9	583.4	419.1	404.0	393.4	388.9	390.4	391.9	388.9	373.8	378.4
97.5°	465.8	422.1	327.1	316.6	306.0	304.5	306.0	309.0	310.5	300.0	303.0
100°	343.7	324.1	268.3	260.8	251.7	248.7	250.2	253.2	254.8	245.7	247.2
102.5°	272.8	263.8	232.1	229.1	218.6	215.6	218.6	220.1	221.6	215.6	215.6
105°	239.7	239.7	214.1	212.5	205.0	202.0	203.5	205.0	206.5	200.5	200.5
107.5°	230.6	232.1	206.5	208.0	203.5	202.0	205.0	208.0	206.5	202.0	200.5
110°	238.2	241.2	206.5	211.0	212.5	215.6	221.6	223.1	223.1	220.1	221.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	245.7	250.2	203.5	214.1	224.6	232.1	242.7	248.7	245.7	244.2	245.7
115°	239.7	242.7	189.9	206.5	226.1	236.7	239.7	239.7	232.1	232.1	233.7
117.5°	232.1	238.2	176.4	189.9	203.5	212.5	211.0	206.5	197.5	194.5	203.5
120°	215.6	233.7	168.8	171.8	173.4	176.4	171.8	167.3	159.8	158.3	164.3
122.5°	199.0	215.6	155.3	152.2	150.7	150.7	149.2	147.7	143.2	144.7	150.7
125°	185.4	194.5	141.7	137.2	135.7	137.2	137.2	137.2	134.2	131.1	131.1
127.5°	174.9	177.9	134.2	128.1	126.6	126.6	126.6	128.1	126.6	122.1	122.1
130°	168.8	167.3	129.6	119.1	117.6	119.1	119.1	120.6	117.6	114.6	114.6
132.5°	156.8	153.8	123.6	113.1	111.5	113.1	113.1	113.1	110.0	107.0	107.0
135°	143.2	140.2	116.1	105.5	104.0	105.5	105.5	107.0	104.0	101.0	101.0
137.5°	132.7	129.6	108.5	99.5	98.0	98.0	99.5	99.5	98.0	95.0	95.0
140°	123.6	120.6	101.0	93.5	90.4	92.0	92.0	92.0	90.4	87.4	87.4
142.5°	116.1	114.6	93.5	85.9	82.9	84.4	84.4	85.9	82.9	79.9	79.9
145°	110.0	107.0	87.4	78.4	76.9	76.9	76.9	78.4	75.4	72.4	72.4
147.5°	104.0	101.0	79.9	70.8	69.3	69.3	69.3	69.3	67.8	64.8	63.3
150°	92.0	90.4	73.9	64.8	61.8	61.8	61.8	60.3	57.3	54.3	54.3
152.5°	78.4	76.9	64.8	57.3	54.3	54.3	52.8	52.8	49.7	48.2	46.7
155°	67.8	67.8	58.8	51.3	48.2	46.7	45.2	45.2	43.7	42.2	40.7
157.5°	60.3	58.8	52.8	46.7	40.7	40.7	39.2	39.2	37.7	36.2	34.7
160°	51.3	51.3	45.2	39.2	34.7	33.2	33.2	31.7	30.1	28.6	28.6
162.5°	40.7	40.7	36.2	31.7	27.1	27.1	25.6	25.6	24.1	22.6	21.1
165°	28.6	28.6	27.1	24.1	21.1	19.6	19.6	19.6	18.1	16.6	16.6
167.5°	19.6	19.6	18.1	16.6	15.1	13.6	15.1	15.1	13.6	12.1	12.1
170°	10.6	10.6	9.0	9.0	7.5	7.5	9.0	10.6	9.0	7.5	6.0
172.5°	4.5	4.5	4.5	4.5	3.0	4.5	6.0	7.5	6.0	4.5	4.5
175°	3.0	3.0	4.5	4.5	3.0	4.5	6.0	7.5	6.0	4.5	4.5
177.5°	3.0	3.0	4.5	4.5	3.0	4.5	6.0	7.5	6.0	4.5	4.5
180°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0

(END OF REPORT)