

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: P194611

Luminaire Tested: **GLEON-AF-03-LED-E1-SLL-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-SLL-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10522 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 96
Input Voltage (V): NR
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: 25 FT



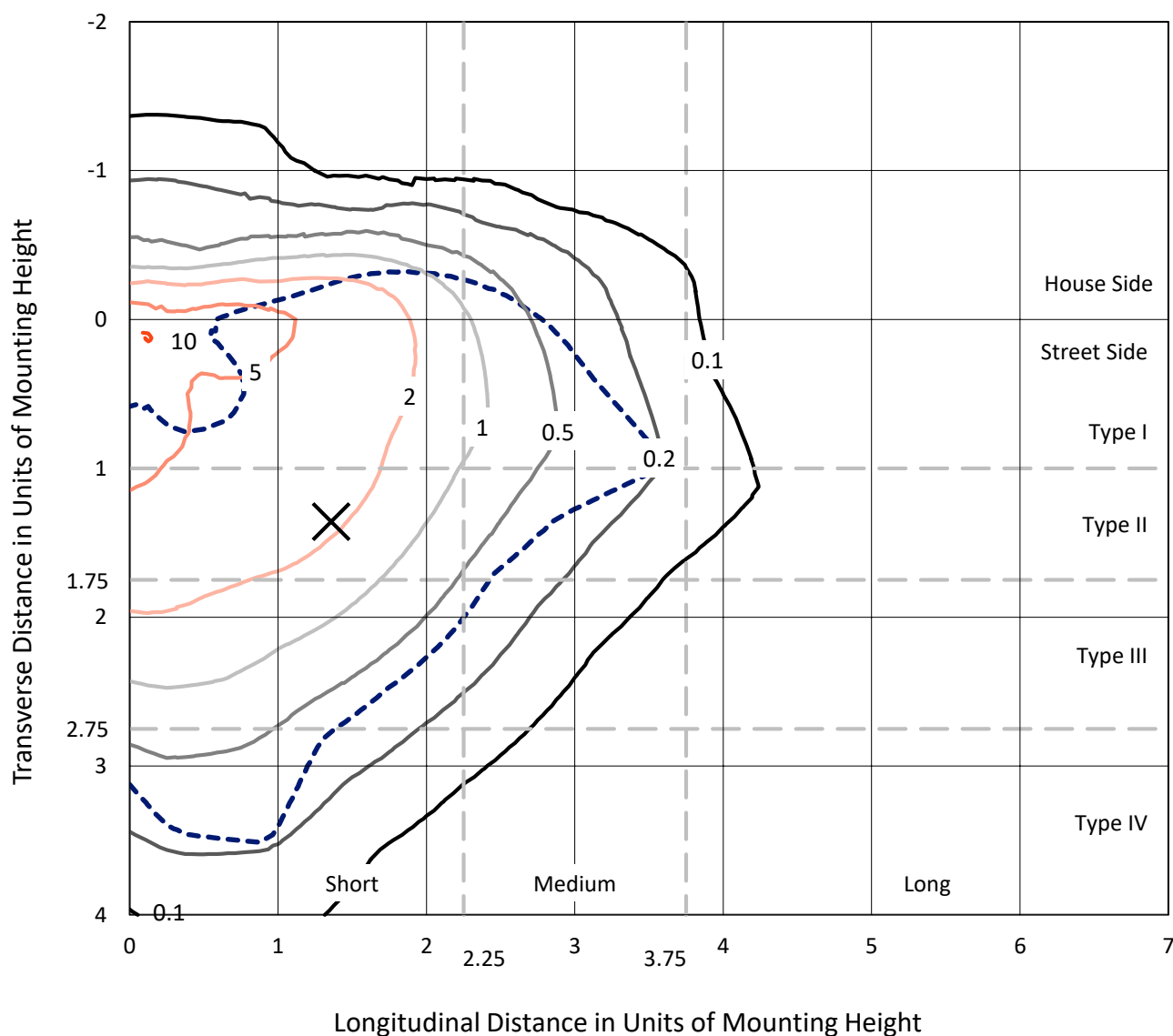
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

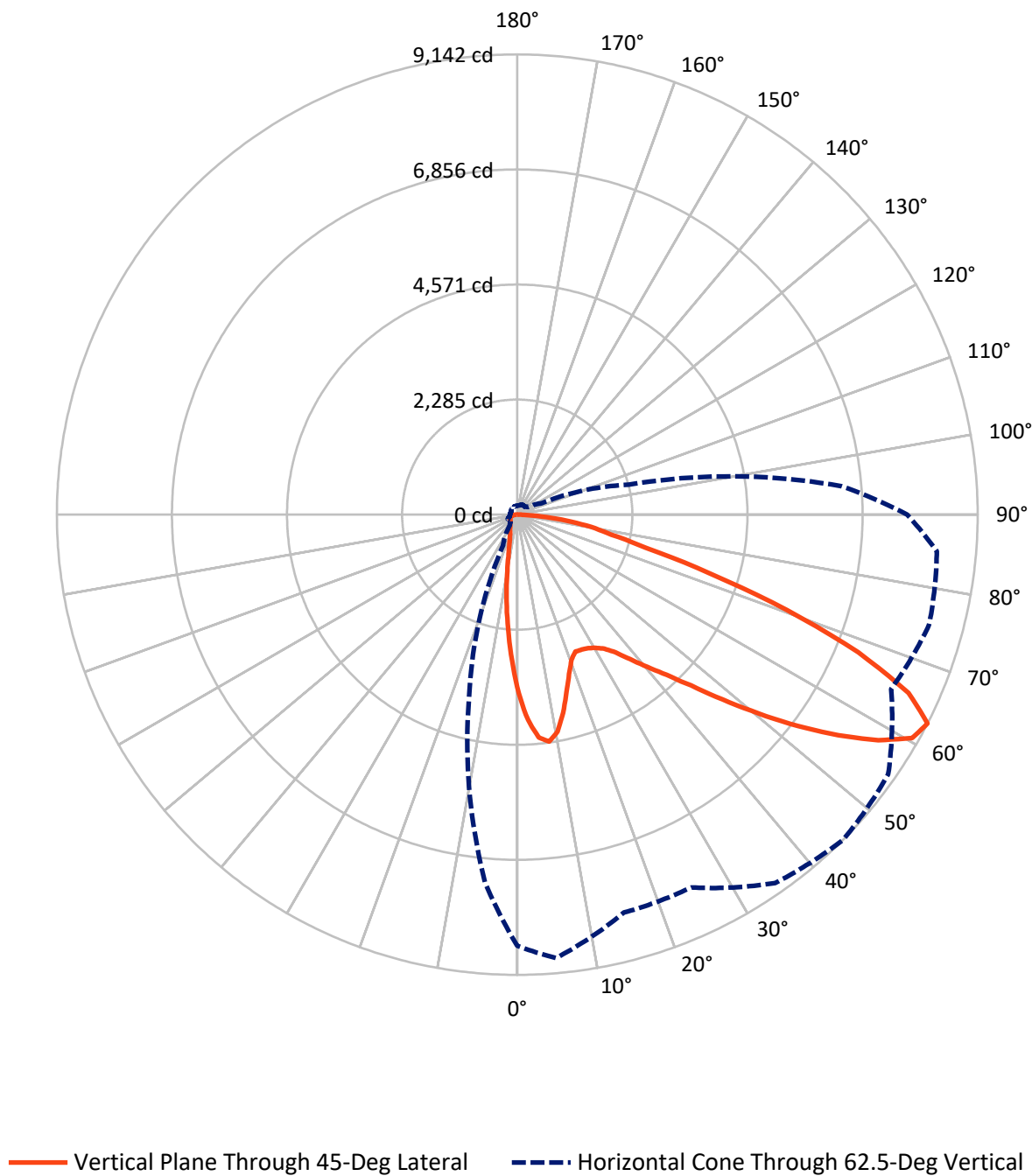


Based on 20 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1741.2	0.0	1741.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	8780.8	0.0	8780.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	10522.0	0.0	10522.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.8	2.5
10°-20°	474.5	4.5
20°-30°	691.9	6.6
30°-40°	1065.6	10.1
40°-50°	1568.3	14.9
50°-60°	2300.3	21.9
60°-70°	2571.4	24.4
70°-80°	1258.9	12.0
80°-90°	332.4	3.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	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°	10522.0	100.0
0°-180°	10522.0	100.0

Coefficient of Utilization



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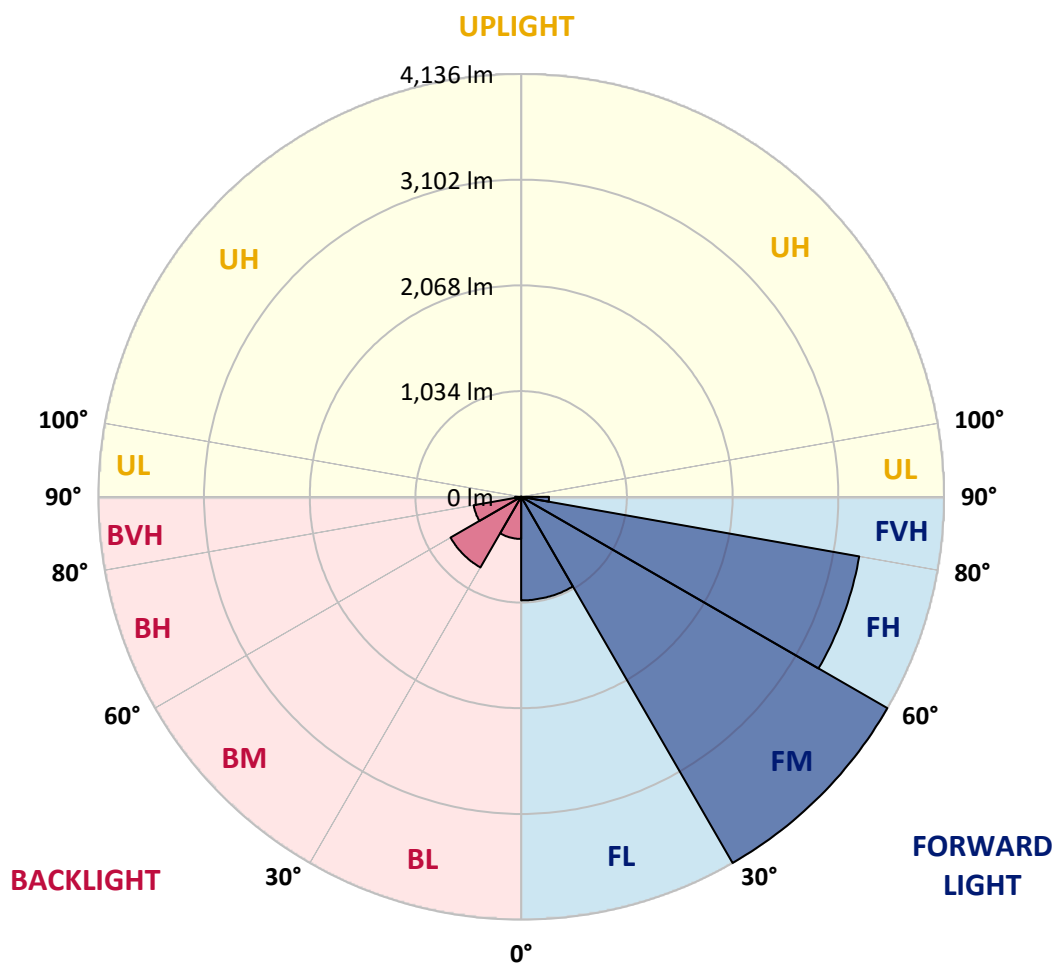
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1013.2	9.6			
FM	(30°-60°)	4136.3	39.3			
FH	(60°-80°)	3358.3	31.9			G2/5000
FVH	(80°-90°)	273.0	2.6			G3/500
BL	(0°-30°)	412.0	3.9	B1/500		
BM	(30°-60°)	797.8	7.6	B1/1000		
BH	(60°-80°)	472.1	4.5	B1/500		G1/500
BVH	(80°-90°)	59.4	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9
2.5°	3693.7	3752.7	3867.8	3954.0	4058.7	4083.0	4116.5	4083.6	4025.1	3947.6	3922.2
5°	3473.3	3599.4	3878.8	4124.6	4343.3	4445.1	4473.4	4389.5	4220.1	3997.4	3861.5
7.5°	3119.9	3299.2	3677.5	4039.6	4361.8	4552.1	4547.4	4352.5	4040.8	3678.1	3460.0
10°	2815.1	3019.9	3453.7	3858.6	4200.4	4384.9	4313.8	4064.5	3692.6	3274.9	3038.4
12.5°	2644.5	2845.2	3285.4	3692.0	3977.7	4041.3	3987.0	3742.9	3392.4	2970.1	2763.1
15°	2615.0	2835.4	3218.3	3549.1	3709.3	3653.8	3589.0	3479.7	3232.1	2871.8	2656.1
17.5°	2742.8	2985.7	3295.2	3449.6	3422.4	3325.8	3307.3	3319.5	3259.9	2981.1	2732.4
20°	2988.1	3279.6	3478.5	3402.8	3204.4	3071.3	3076.0	3261.6	3438.1	3258.2	2974.2
22.5°	3332.2	3664.8	3742.9	3427.6	3112.4	2954.5	2992.7	3293.5	3722.1	3663.1	3300.4
25°	3777.6	4080.7	4024.6	3517.9	3121.7	2969.0	2999.6	3403.4	4057.5	4067.9	3704.1
27.5°	4209.1	4490.2	4261.1	3637.6	3159.8	3003.1	3043.6	3576.3	4378.0	4507.5	4165.7
30°	4545.7	4741.2	4354.8	3746.9	3235.0	3069.6	3119.9	3740.6	4523.7	4804.3	4520.8
32.5°	4824.5	4965.1	4504.1	3882.3	3373.3	3174.3	3262.8	3940.1	4733.7	5086.5	4868.5
35°	5180.8	5220.7	4689.7	4033.2	3586.7	3356.5	3466.4	4135.6	4933.8	5371.7	5210.9
37.5°	5598.4	5546.9	4865.0	4239.7	3862.6	3641.7	3732.5	4350.2	5098.7	5695.0	5560.8
40°	6011.4	5887.6	5084.8	4560.2	4265.2	3977.7	4085.3	4579.3	5252.5	6018.9	5902.7
42.5°	6362.5	6179.1	5301.7	4912.4	4640.0	4348.5	4476.9	4810.0	5399.4	6295.4	6199.4
45°	6622.2	6394.3	5508.2	5250.8	5156.5	4841.3	4902.0	5074.4	5558.5	6526.2	6443.5
47.5°	6854.1	6610.6	5741.9	5592.1	5608.2	5482.2	5384.4	5382.1	5745.9	6714.7	6674.3
50°	7164.7	6910.8	5992.9	5943.7	6286.1	6202.3	5986.5	5741.3	5983.1	6928.8	6924.1
52.5°	7592.8	7386.3	6299.4	6322.6	6918.9	6973.9	6706.6	6172.8	6354.4	7321.5	7293.7
55°	8098.9	7978.6	6717.1	6758.1	7695.1	7734.5	7469.0	6712.4	6900.4	7890.1	7813.1
57.5°	8493.9	8468.5	7175.2	7281.0	8274.7	8451.7	8207.6	7337.1	7515.8	8369.0	8175.8
60°	8651.3	8774.5	7662.8	7808.5	8810.9	9007.0	8793.0	7886.0	8061.3	8567.4	8150.9
62.5°	8566.2	8841.6	8182.2	8170.0	8930.6	9141.7	8991.4	8191.4	8465.6	8362.6	7738.5
65°	8173.5	8600.4	8483.5	8076.9	8521.1	8538.5	8489.9	8054.9	8561.0	7715.4	6941.5
67.5°	7318.0	7932.3	8086.7	7278.7	7416.4	7303.6	7222.0	7307.6	8063.6	6745.4	5833.8
70°	5960.5	6884.8	6958.8	5821.7	5759.2	5683.4	5520.9	5991.2	7082.0	5528.4	4629.0
72.5°	4382.6	5354.3	5581.6	4269.8	3980.6	3996.2	3867.8	4515.1	5758.1	4106.7	3456.0
75°	2998.5	3877.1	4367.0	2979.4	2632.3	2638.7	2622.5	3199.2	4586.2	2856.8	2586.1
77.5°	2190.4	2770.0	3293.5	2003.0	1944.6	1908.7	1900.1	2238.4	3516.1	2074.2	2008.2
80°	1757.8	2046.4	2212.4	1388.2	1492.9	1490.0	1442.0	1539.1	2296.3	1517.2	1502.1
82.5°	1219.3	1572.7	1792.5	1088.0	1007.6	990.8	1002.4	1146.4	1623.0	1037.1	986.2
85°	643.2	1044.6	1775.1	964.2	598.1	477.2	593.4	938.8	1406.1	549.5	481.2
87.5°	82.1	301.9	1175.3	384.6	236.0	127.2	281.7	528.7	902.9	112.2	97.8
90°	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9
2.5°	3856.8	3779.9	3679.3	3586.1	3489.5	3393.5	3268.0	3189.3	3135.0	3124.6	3101.4
5°	3763.1	3507.5	3314.3	3147.1	2995.6	2781.6	2663.0	2564.7	2512.0	2506.8	2494.1
7.5°	3331.1	2978.2	2717.4	2480.8	2266.2	2093.3	1902.4	1813.3	1776.9	1785.5	1794.2
10°	2881.6	2487.2	2187.5	1945.8	1756.6	1610.9	1457.6	1354.1	1282.3	1267.9	1265.0
12.5°	2553.1	2120.4	1829.5	1658.9	1512.5	1375.5	1212.9	1090.9	997.8	965.9	944.5
15°	2414.3	1941.1	1636.3	1452.4	1291.0	1116.9	965.9	838.1	752.5	724.7	709.1
17.5°	2443.8	1891.4	1503.3	1267.9	1061.4	879.8	689.5	580.1	528.7	515.4	515.4
20°	2598.8	1882.1	1393.4	1097.8	840.4	629.9	473.7	411.2	394.5	392.7	397.4
22.5°	2816.3	1914.5	1311.3	950.3	653.0	459.8	369.0	345.9	338.4	340.1	345.3
25°	3140.2	2023.9	1251.7	819.0	512.5	376.5	329.1	315.2	311.8	316.4	322.8
27.5°	3524.2	2133.2	1214.7	720.1	432.6	344.2	312.9	298.5	300.8	306.6	312.3
30°	3861.5	2222.8	1156.2	649.6	407.8	345.9	312.9	293.3	290.9	292.1	293.8
32.5°	4164.0	2283.6	1088.0	582.5	351.7	307.1	292.1	289.2	276.5	271.9	272.4
35°	4424.8	2283.6	1046.9	543.1	315.2	272.4	248.1	233.7	227.3	227.9	234.3
37.5°	4676.4	2237.9	1026.7	521.1	295.6	259.1	237.7	225.0	216.3	214.6	215.7
40°	4898.5	2171.3	1003.5	511.9	280.5	251.0	230.8	220.4	211.1	208.2	208.8
42.5°	5076.7	2117.6	978.1	499.7	271.3	245.2	226.2	216.9	206.5	203.6	203.0
45°	5269.3	2099.6	944.5	475.5	275.9	245.8	225.0	215.2	204.8	201.3	200.1
47.5°	5523.2	2155.7	909.8	446.5	285.7	248.7	226.7	215.2	204.2	201.3	200.1
50°	5843.1	2287.6	865.9	404.3	275.9	256.8	226.2	213.4	204.2	201.3	199.0
52.5°	6253.8	2465.8	808.0	355.7	270.1	276.5	225.0	210.0	201.3	197.2	193.2
55°	6752.9	2611.5	739.2	315.8	256.8	271.3	223.3	205.9	196.7	190.9	187.4
57.5°	7118.5	2664.1	650.7	289.8	238.3	262.6	221.0	200.7	190.9	186.2	181.6
60°	7046.2	2562.3	576.1	273.6	227.3	237.1	219.2	196.1	185.7	182.2	178.1
62.5°	6467.2	2296.3	528.1	266.1	220.4	216.3	221.0	191.5	181.0	177.6	176.4
65°	5599.0	1903.5	509.0	264.3	214.6	204.2	205.3	186.2	175.8	172.9	171.8
67.5°	4618.6	1536.3	492.2	270.1	207.1	195.5	189.7	179.3	170.6	167.7	165.4
70°	3642.2	1277.7	484.7	266.6	197.8	186.8	180.5	171.8	164.3	161.4	159.6
72.5°	2933.1	1079.3	480.7	263.2	185.7	175.3	169.5	162.0	153.9	152.7	151.0
75°	2482.0	848.5	440.2	252.2	171.8	161.4	157.3	150.4	142.3	142.3	141.1
77.5°	1914.5	613.7	366.1	223.3	157.3	145.8	142.3	137.1	127.8	129.6	129.0
80°	1414.2	400.3	286.3	185.1	139.4	128.4	126.7	121.5	111.6	113.9	113.9
82.5°	968.8	262.6	205.9	151.5	119.2	108.7	108.7	103.5	92.5	93.7	97.2
85°	486.4	180.5	153.9	117.4	92.5	87.3	87.3	83.3	72.3	72.9	77.5
87.5°	148.1	108.7	101.8	83.9	66.5	65.4	62.5	59.6	52.6	52.1	54.9
90°	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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9
2.5°	3066.1	3033.2	2993.3	2905.3	2875.8	2874.1	2900.7	2873.0	2926.2	2903.6	2928.5
5°	2472.7	2440.3	2395.8	2283.6	2215.3	2169.0	2147.1	2082.3	2129.1	2095.0	2123.3
7.5°	1818.5	1826.0	1796.5	1730.6	1581.9	1507.3	1463.4	1424.0	1458.2	1454.7	1509.1
10°	1278.3	1298.5	1277.7	1211.2	1090.9	1049.8	1057.9	1073.5	1118.1	1141.2	1225.1
12.5°	920.2	919.1	905.8	846.2	767.0	771.6	804.6	831.8	872.8	897.1	982.7
15°	687.1	676.7	671.0	622.4	577.3	587.1	603.3	606.2	632.2	646.7	716.1
17.5°	519.4	524.6	531.0	496.3	462.1	455.8	443.1	427.4	435.0	437.9	472.6
20°	412.4	433.2	448.8	424.6	389.8	371.3	355.1	344.7	344.7	344.2	354.0
22.5°	360.3	375.4	392.2	375.4	344.2	328.0	318.7	310.6	309.4	309.4	318.7
25°	332.0	343.0	359.2	347.6	324.5	312.3	303.7	293.3	289.2	288.0	294.4
27.5°	318.1	322.8	330.8	320.4	300.8	295.0	292.7	283.4	278.2	275.3	281.7
30°	294.4	293.3	293.8	283.4	267.8	267.2	271.3	273.0	271.3	270.7	280.5
32.5°	272.4	270.1	269.5	260.3	245.8	242.4	245.8	249.3	253.3	259.1	270.7
35°	244.7	250.5	253.9	245.8	228.5	218.1	214.0	207.6	204.2	204.2	217.5
37.5°	222.7	236.0	241.2	233.7	214.6	200.1	193.2	192.0	192.6	194.9	207.6
40°	215.2	225.0	229.6	222.1	203.0	189.7	185.7	184.5	185.7	189.1	201.9
42.5°	210.5	217.5	216.9	207.6	192.0	182.8	180.5	179.3	180.5	183.9	197.8
45°	206.5	211.1	206.5	195.5	181.0	176.4	177.0	176.4	177.6	181.0	194.3
47.5°	203.0	204.8	199.0	188.0	172.9	171.8	174.1	175.8	177.0	179.9	193.8
50°	197.8	197.8	192.6	181.0	166.0	166.6	169.5	173.5	174.1	177.6	188.6
52.5°	191.5	190.9	187.4	176.4	160.2	162.0	162.0	166.6	167.7	171.8	183.4
55°	186.2	185.1	183.4	172.9	155.0	157.9	156.2	157.9	160.8	164.8	177.6
57.5°	181.6	179.3	179.3	170.1	151.0	152.1	148.1	150.4	153.9	157.3	170.6
60°	177.0	174.7	175.8	166.0	144.6	143.4	141.7	146.3	147.5	151.5	164.8
62.5°	171.8	170.1	170.6	161.4	140.0	137.1	137.1	141.1	141.7	147.5	160.2
65°	167.7	165.4	164.8	156.7	134.8	131.3	133.0	134.8	135.9	141.7	153.9
67.5°	163.7	159.1	159.1	152.7	129.0	125.5	129.0	128.4	130.1	135.3	145.2
70°	158.5	152.1	152.7	149.8	123.2	119.2	122.0	121.5	122.6	126.1	135.9
72.5°	150.4	145.2	146.3	145.2	117.4	111.6	112.8	112.8	112.8	115.7	126.1
75°	140.0	135.9	139.4	142.3	110.5	102.4	103.5	103.5	101.8	103.5	116.3
77.5°	127.2	124.9	136.5	132.5	102.4	92.5	92.5	91.4	87.9	90.2	104.1
80°	113.4	111.6	126.1	111.1	93.1	80.4	79.2	76.3	72.9	74.6	88.5
82.5°	98.9	97.2	105.8	85.0	80.4	66.5	63.6	58.4	54.9	56.7	69.4
85°	81.0	81.0	81.6	64.2	61.3	50.9	47.4	40.5	36.4	37.6	49.7
87.5°	57.8	59.6	54.9	44.0	36.4	28.3	26.0	22.0	18.5	21.4	26.0
90°	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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9
2.5°	3055.7	3119.4	3191.7	3284.2	3363.4	3493.6	3618.5	3693.7
5°	2284.7	2390.6	2522.4	2691.9	2849.8	3087.0	3322.4	3473.3
7.5°	1635.2	1748.5	1890.8	2102.5	2325.8	2628.3	2939.5	3119.9
10°	1352.9	1469.2	1588.9	1731.8	1914.5	2243.6	2611.5	2815.1
12.5°	1119.2	1243.6	1372.6	1522.9	1692.4	1986.3	2410.2	2644.5
15°	856.6	995.4	1147.6	1337.9	1550.1	1889.7	2360.5	2615.0
17.5°	587.1	742.1	928.9	1163.8	1423.5	1858.4	2449.6	2742.8
20°	404.3	517.1	716.6	992.0	1304.3	1854.4	2620.8	2988.1
22.5°	338.4	388.7	534.4	834.1	1214.7	1904.1	2886.3	3332.2
25°	312.9	343.0	426.9	697.0	1149.3	2018.6	3251.8	3777.6
27.5°	297.9	325.1	387.5	607.3	1097.8	2151.7	3607.5	4209.1
30°	303.7	331.4	376.5	561.6	1027.8	2262.7	3923.3	4545.7
32.5°	273.6	285.7	322.8	521.1	977.5	2355.9	4199.8	4824.5
35°	233.1	254.5	288.0	502.1	978.7	2418.3	4501.2	5180.8
37.5°	222.1	243.5	267.8	495.1	992.0	2484.8	4847.1	5598.4
40°	215.2	234.8	255.7	491.1	1004.7	2545.6	5186.0	6011.4
42.5°	210.5	228.5	254.5	477.2	1011.1	2599.9	5464.8	6362.5
45°	210.0	228.5	259.1	463.3	1020.9	2658.4	5698.5	6622.2
47.5°	210.5	236.0	250.5	446.5	1020.9	2756.1	5972.6	6854.1
50°	208.2	248.7	241.2	422.8	997.2	2941.2	6348.6	7164.7
52.5°	207.1	247.0	223.3	386.4	956.1	3235.0	6830.4	7592.8
55°	204.2	238.3	210.5	332.0	908.1	3555.5	7346.4	8098.9
57.5°	201.3	211.1	203.6	284.6	834.1	3781.1	7701.5	8493.9
60°	225.6	184.5	197.8	261.4	735.2	3842.9	7687.6	8651.3
62.5°	208.8	172.9	190.3	256.2	665.7	3669.4	7332.5	8566.2
65°	163.7	165.4	182.8	271.3	647.2	3209.6	6703.2	8173.5
67.5°	149.8	157.9	175.3	290.4	649.0	2569.9	5762.7	7318.0
70°	141.1	149.8	166.6	300.2	653.6	1915.7	4556.1	5960.5
72.5°	131.3	138.8	156.7	301.9	623.5	1391.7	3511.5	4382.6
75°	119.7	126.7	142.9	263.2	516.5	965.4	2686.1	2998.5
77.5°	106.4	111.6	125.5	203.0	383.5	617.7	2016.3	2190.4
80°	90.8	93.7	105.3	148.7	262.6	386.4	1595.3	1757.8
82.5°	72.9	74.0	81.6	111.6	170.6	248.1	1068.3	1219.3
85°	51.5	51.5	56.1	81.0	116.3	157.3	580.1	643.2
87.5°	24.3	24.9	24.9	44.5	60.7	79.8	133.6	82.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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