

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: P192111

Luminaire Tested: **GLEON-AF-03-LED-E1-SLR-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192111
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-SLR-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT 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

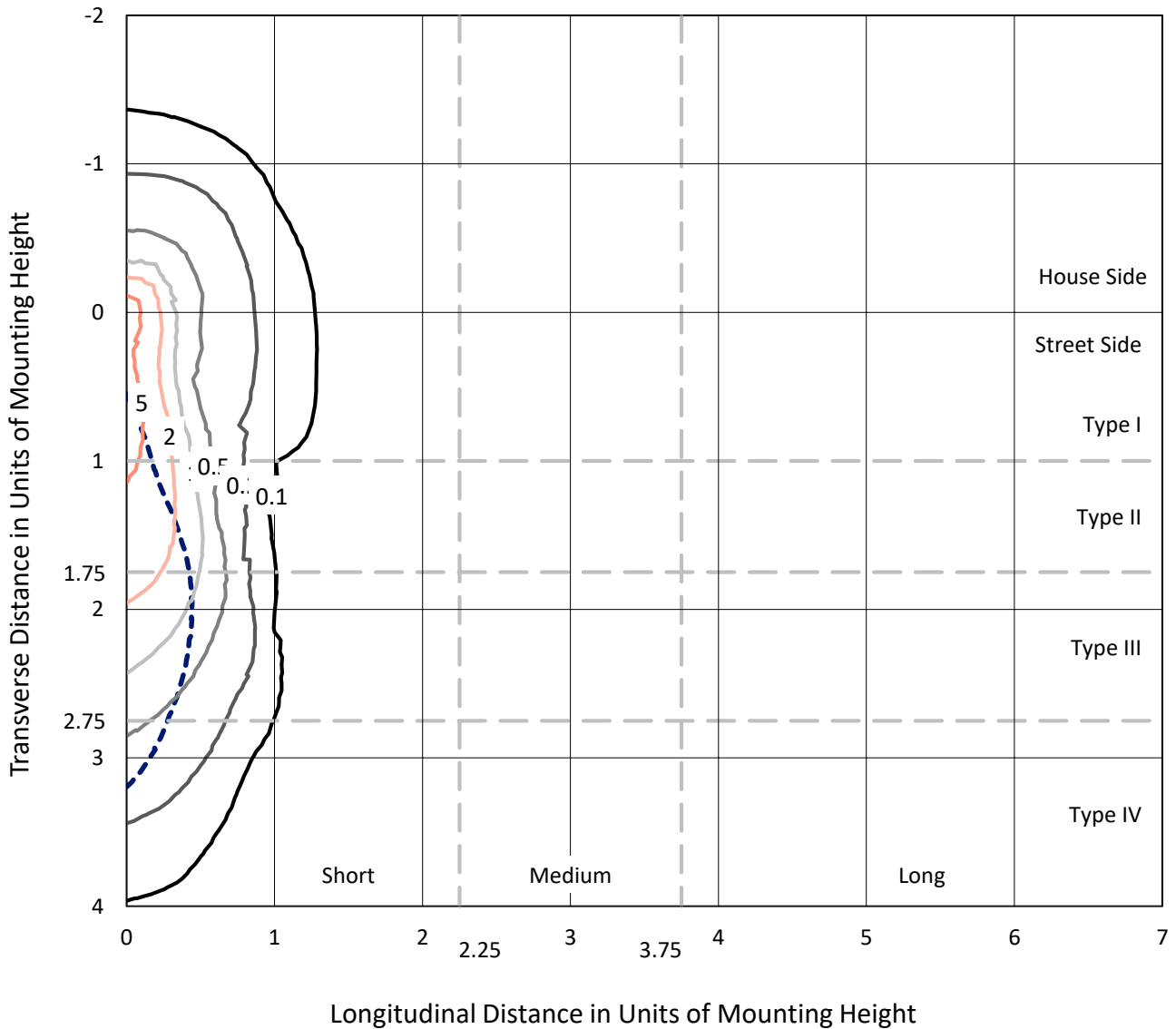


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

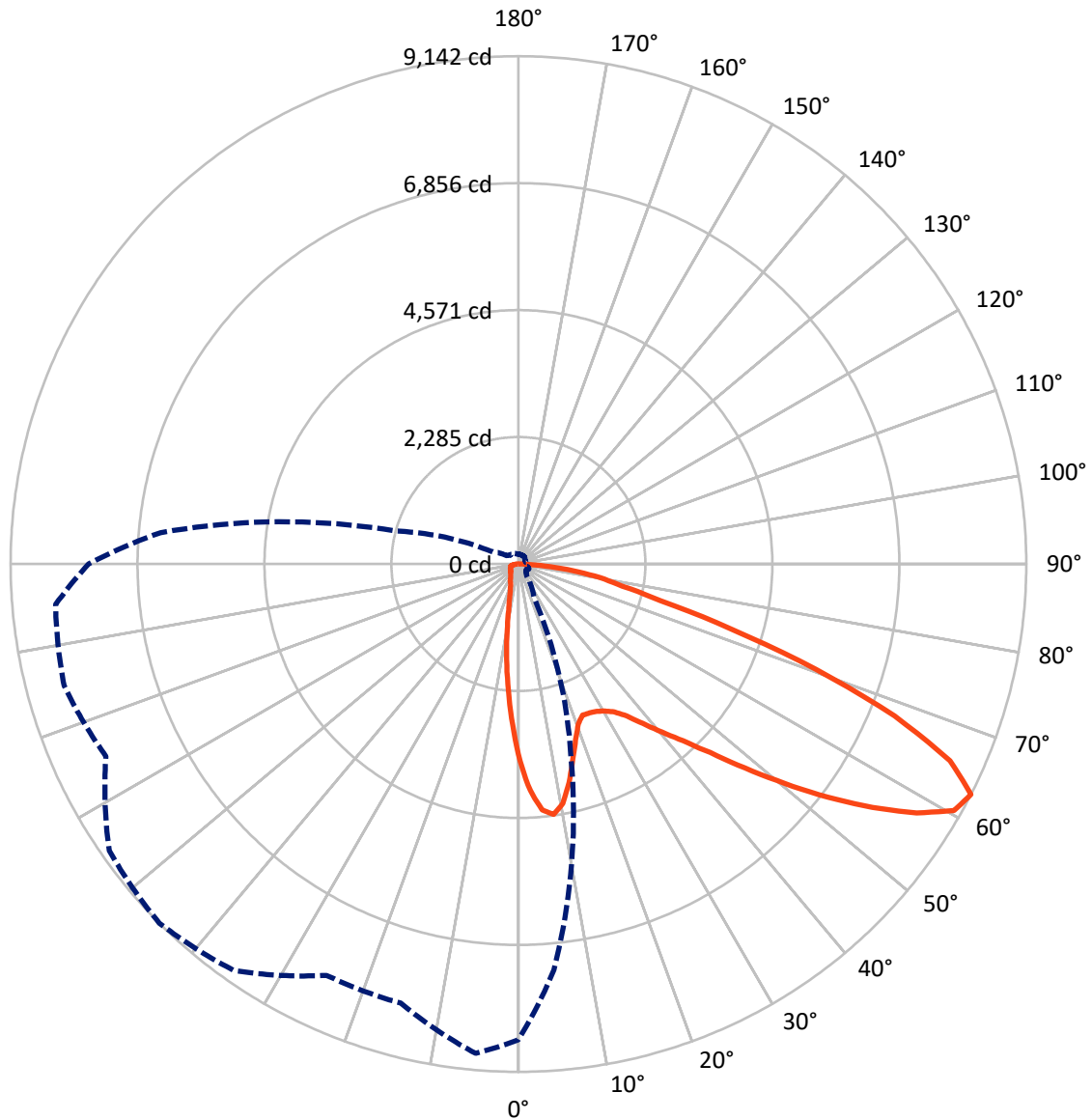


Based on 20 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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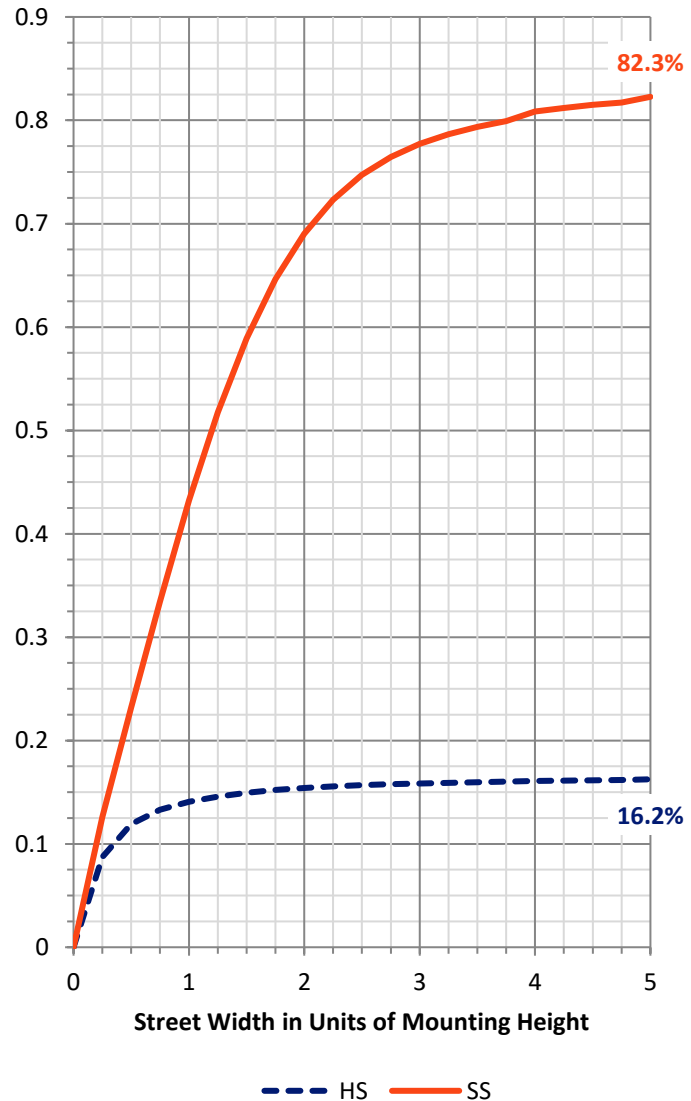
FLUX DISTRIBUTION:

		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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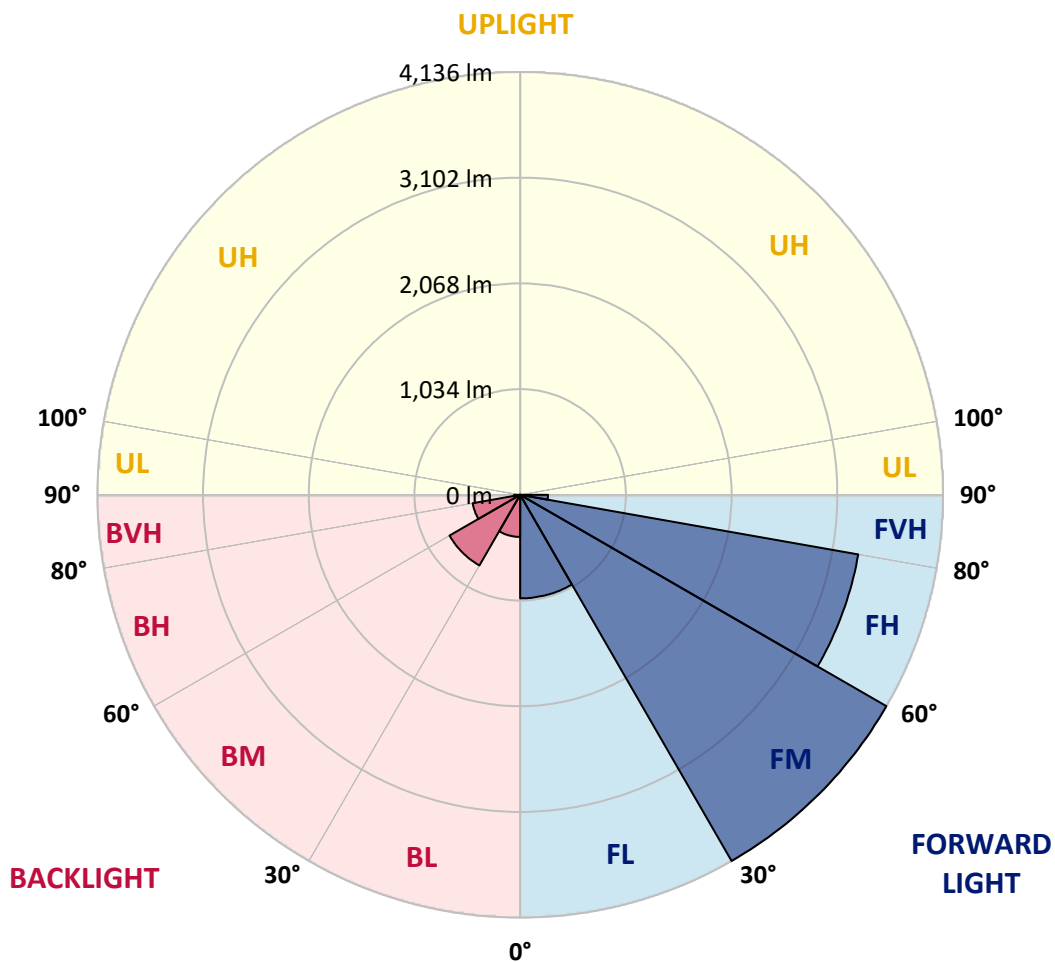
CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7050-600

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	3618.5	3493.6	3363.4	3284.2	3191.7	3119.4	3055.7	2928.5	2903.6	2926.2
5°	3473.3	3322.4	3087.0	2849.8	2691.9	2522.4	2390.6	2284.7	2123.3	2095.0	2129.1
7.5°	3119.9	2939.5	2628.3	2325.8	2102.5	1890.8	1748.5	1635.2	1509.1	1454.7	1458.2
10°	2815.1	2611.5	2243.6	1914.5	1731.8	1588.9	1469.2	1352.9	1225.1	1141.2	1118.1
12.5°	2644.5	2410.2	1986.3	1692.4	1522.9	1372.6	1243.6	1119.2	982.7	897.1	872.8
15°	2615.0	2360.5	1889.7	1550.1	1337.9	1147.6	995.4	856.6	716.1	646.7	632.2
17.5°	2742.8	2449.6	1858.4	1423.5	1163.8	928.9	742.1	587.1	472.6	437.9	435.0
20°	2988.1	2620.8	1854.4	1304.3	992.0	716.6	517.1	404.3	354.0	344.2	344.7
22.5°	3332.2	2886.3	1904.1	1214.7	834.1	534.4	388.7	338.4	318.7	309.4	309.4
25°	3777.6	3251.8	2018.6	1149.3	697.0	426.9	343.0	312.9	294.4	288.0	289.2
27.5°	4209.1	3607.5	2151.7	1097.8	607.3	387.5	325.1	297.9	281.7	275.3	278.2
30°	4545.7	3923.3	2262.7	1027.8	561.6	376.5	331.4	303.7	280.5	270.7	271.3
32.5°	4824.5	4199.8	2355.9	977.5	521.1	322.8	285.7	273.6	270.7	259.1	253.3
35°	5180.8	4501.2	2418.3	978.7	502.1	288.0	254.5	233.1	217.5	204.2	204.2
37.5°	5598.4	4847.1	2484.8	992.0	495.1	267.8	243.5	222.1	207.6	194.9	192.6
40°	6011.4	5186.0	2545.6	1004.7	491.1	255.7	234.8	215.2	201.9	189.1	185.7
42.5°	6362.5	5464.8	2599.9	1011.1	477.2	254.5	228.5	210.5	197.8	183.9	180.5
45°	6622.2	5698.5	2658.4	1020.9	463.3	259.1	228.5	210.0	194.3	181.0	177.6
47.5°	6854.1	5972.6	2756.1	1020.9	446.5	250.5	236.0	210.5	193.8	179.9	177.0
50°	7164.7	6348.6	2941.2	997.2	422.8	241.2	248.7	208.2	188.6	177.6	174.1
52.5°	7592.8	6830.4	3235.0	956.1	386.4	223.3	247.0	207.1	183.4	171.8	167.7
55°	8098.9	7346.4	3555.5	908.1	332.0	210.5	238.3	204.2	177.6	164.8	160.8
57.5°	8493.9	7701.5	3781.1	834.1	284.6	203.6	211.1	201.3	170.6	157.3	153.9
60°	8651.3	7687.6	3842.9	735.2	261.4	197.8	184.5	225.6	164.8	151.5	147.5
62.5°	8566.2	7332.5	3669.4	665.7	256.2	190.3	172.9	208.8	160.2	147.5	141.7
65°	8173.5	6703.2	3209.6	647.2	271.3	182.8	165.4	163.7	153.9	141.7	135.9
67.5°	7318.0	5762.7	2569.9	649.0	290.4	175.3	157.9	149.8	145.2	135.3	130.1
70°	5960.5	4556.1	1915.7	653.6	300.2	166.6	149.8	141.1	135.9	126.1	122.6
72.5°	4382.6	3511.5	1391.7	623.5	301.9	156.7	138.8	131.3	126.1	115.7	112.8
75°	2998.5	2686.1	965.4	516.5	263.2	142.9	126.7	119.7	116.3	103.5	101.8
77.5°	2190.4	2016.3	617.7	383.5	203.0	125.5	111.6	106.4	104.1	90.2	87.9
80°	1757.8	1595.3	386.4	262.6	148.7	105.3	93.7	90.8	88.5	74.6	72.9
82.5°	1219.3	1068.3	248.1	170.6	111.6	81.6	74.0	72.9	69.4	56.7	54.9
85°	643.2	580.1	157.3	116.3	81.0	56.1	51.5	51.5	49.7	37.6	36.4
87.5°	82.1	133.6	79.8	60.7	44.5	24.9	24.9	24.3	26.0	21.4	18.5
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°	2873.0	2900.7	2874.1	2875.8	2905.3	2993.3	3033.2	3066.1	3101.4	3124.6	3135.0
5°	2082.3	2147.1	2169.0	2215.3	2283.6	2395.8	2440.3	2472.7	2494.1	2506.8	2512.0
7.5°	1424.0	1463.4	1507.3	1581.9	1730.6	1796.5	1826.0	1818.5	1794.2	1785.5	1776.9
10°	1073.5	1057.9	1049.8	1090.9	1211.2	1277.7	1298.5	1278.3	1265.0	1267.9	1282.3
12.5°	831.8	804.6	771.6	767.0	846.2	905.8	919.1	920.2	944.5	965.9	997.8
15°	606.2	603.3	587.1	577.3	622.4	671.0	676.7	687.1	709.1	724.7	752.5
17.5°	427.4	443.1	455.8	462.1	496.3	531.0	524.6	519.4	515.4	515.4	528.7
20°	344.7	355.1	371.3	389.8	424.6	448.8	433.2	412.4	397.4	392.7	394.5
22.5°	310.6	318.7	328.0	344.2	375.4	392.2	375.4	360.3	345.3	340.1	338.4
25°	293.3	303.7	312.3	324.5	347.6	359.2	343.0	332.0	322.8	316.4	311.8
27.5°	283.4	292.7	295.0	300.8	320.4	330.8	322.8	318.1	312.3	306.6	300.8
30°	273.0	271.3	267.2	267.8	283.4	293.8	293.3	294.4	293.8	292.1	290.9
32.5°	249.3	245.8	242.4	245.8	260.3	269.5	270.1	272.4	272.4	271.9	276.5
35°	207.6	214.0	218.1	228.5	245.8	253.9	250.5	244.7	234.3	227.9	227.3
37.5°	192.0	193.2	200.1	214.6	233.7	241.2	236.0	222.7	215.7	214.6	216.3
40°	184.5	185.7	189.7	203.0	222.1	229.6	225.0	215.2	208.8	208.2	211.1
42.5°	179.3	180.5	182.8	192.0	207.6	216.9	217.5	210.5	203.0	203.6	206.5
45°	176.4	177.0	176.4	181.0	195.5	206.5	211.1	206.5	200.1	201.3	204.8
47.5°	175.8	174.1	171.8	172.9	188.0	199.0	204.8	203.0	200.1	201.3	204.2
50°	173.5	169.5	166.6	166.0	181.0	192.6	197.8	197.8	199.0	201.3	204.2
52.5°	166.6	162.0	162.0	160.2	176.4	187.4	190.9	191.5	193.2	197.2	201.3
55°	157.9	156.2	157.9	155.0	172.9	183.4	185.1	186.2	187.4	190.9	196.7
57.5°	150.4	148.1	152.1	151.0	170.1	179.3	179.3	181.6	181.6	186.2	190.9
60°	146.3	141.7	143.4	144.6	166.0	175.8	174.7	177.0	178.1	182.2	185.7
62.5°	141.1	137.1	137.1	140.0	161.4	170.6	170.1	171.8	176.4	177.6	181.0
65°	134.8	133.0	131.3	134.8	156.7	164.8	165.4	167.7	171.8	172.9	175.8
67.5°	128.4	129.0	125.5	129.0	152.7	159.1	159.1	163.7	165.4	167.7	170.6
70°	121.5	122.0	119.2	123.2	149.8	152.7	152.1	158.5	159.6	161.4	164.3
72.5°	112.8	112.8	111.6	117.4	145.2	146.3	145.2	150.4	151.0	152.7	153.9
75°	103.5	103.5	102.4	110.5	142.3	139.4	135.9	140.0	141.1	142.3	142.3
77.5°	91.4	92.5	92.5	102.4	132.5	136.5	124.9	127.2	129.0	129.6	127.8
80°	76.3	79.2	80.4	93.1	111.1	126.1	111.6	113.4	113.9	113.9	111.6
82.5°	58.4	63.6	66.5	80.4	85.0	105.8	97.2	98.9	97.2	93.7	92.5
85°	40.5	47.4	50.9	61.3	64.2	81.6	81.0	81.0	77.5	72.9	72.3
87.5°	22.0	26.0	28.3	36.4	44.0	54.9	59.6	57.8	54.9	52.1	52.6
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°	3189.3	3268.0	3393.5	3489.5	3586.1	3679.3	3779.9	3856.8	3922.2	3947.6	4025.1
5°	2564.7	2663.0	2781.6	2995.6	3147.1	3314.3	3507.5	3763.1	3861.5	3997.4	4220.1
7.5°	1813.3	1902.4	2093.3	2266.2	2480.8	2717.4	2978.2	3331.1	3460.0	3678.1	4040.8
10°	1354.1	1457.6	1610.9	1756.6	1945.8	2187.5	2487.2	2881.6	3038.4	3274.9	3692.6
12.5°	1090.9	1212.9	1375.5	1512.5	1658.9	1829.5	2120.4	2553.1	2763.1	2970.1	3392.4
15°	838.1	965.9	1116.9	1291.0	1452.4	1636.3	1941.1	2414.3	2656.1	2871.8	3232.1
17.5°	580.1	689.5	879.8	1061.4	1267.9	1503.3	1891.4	2443.8	2732.4	2981.1	3259.9
20°	411.2	473.7	629.9	840.4	1097.8	1393.4	1882.1	2598.8	2974.2	3258.2	3438.1
22.5°	345.9	369.0	459.8	653.0	950.3	1311.3	1914.5	2816.3	3300.4	3663.1	3722.1
25°	315.2	329.1	376.5	512.5	819.0	1251.7	2023.9	3140.2	3704.1	4067.9	4057.5
27.5°	298.5	312.9	344.2	432.6	720.1	1214.7	2133.2	3524.2	4165.7	4507.5	4378.0
30°	293.3	312.9	345.9	407.8	649.6	1156.2	2222.8	3861.5	4520.8	4804.3	4523.7
32.5°	289.2	292.1	307.1	351.7	582.5	1088.0	2283.6	4164.0	4868.5	5086.5	4733.7
35°	233.7	248.1	272.4	315.2	543.1	1046.9	2283.6	4424.8	5210.9	5371.7	4933.8
37.5°	225.0	237.7	259.1	295.6	521.1	1026.7	2237.9	4676.4	5560.8	5695.0	5098.7
40°	220.4	230.8	251.0	280.5	511.9	1003.5	2171.3	4898.5	5902.7	6018.9	5252.5
42.5°	216.9	226.2	245.2	271.3	499.7	978.1	2117.6	5076.7	6199.4	6295.4	5399.4
45°	215.2	225.0	245.8	275.9	475.5	944.5	2099.6	5269.3	6443.5	6526.2	5558.5
47.5°	215.2	226.7	248.7	285.7	446.5	909.8	2155.7	5523.2	6674.3	6714.7	5745.9
50°	213.4	226.2	256.8	275.9	404.3	865.9	2287.6	5843.1	6924.1	6928.8	5983.1
52.5°	210.0	225.0	276.5	270.1	355.7	808.0	2465.8	6253.8	7293.7	7321.5	6354.4
55°	205.9	223.3	271.3	256.8	315.8	739.2	2611.5	6752.9	7813.1	7890.1	6900.4
57.5°	200.7	221.0	262.6	238.3	289.8	650.7	2664.1	7118.5	8175.8	8369.0	7515.8
60°	196.1	219.2	237.1	227.3	273.6	576.1	2562.3	7046.2	8150.9	8567.4	8061.3
62.5°	191.5	221.0	216.3	220.4	266.1	528.1	2296.3	6467.2	7738.5	8362.6	8465.6
65°	186.2	205.3	204.2	214.6	264.3	509.0	1903.5	5599.0	6941.5	7715.4	8561.0
67.5°	179.3	189.7	195.5	207.1	270.1	492.2	1536.3	4618.6	5833.8	6745.4	8063.6
70°	171.8	180.5	186.8	197.8	266.6	484.7	1277.7	3642.2	4629.0	5528.4	7082.0
72.5°	162.0	169.5	175.3	185.7	263.2	480.7	1079.3	2933.1	3456.0	4106.7	5758.1
75°	150.4	157.3	161.4	171.8	252.2	440.2	848.5	2482.0	2586.1	2856.8	4586.2
77.5°	137.1	142.3	145.8	157.3	223.3	366.1	613.7	1914.5	2008.2	2074.2	3516.1
80°	121.5	126.7	128.4	139.4	185.1	286.3	400.3	1414.2	1502.1	1517.2	2296.3
82.5°	103.5	108.7	108.7	119.2	151.5	205.9	262.6	968.8	986.2	1037.1	1623.0
85°	83.3	87.3	87.3	92.5	117.4	153.9	180.5	486.4	481.2	549.5	1406.1
87.5°	59.6	62.5	65.4	66.5	83.9	101.8	108.7	148.1	97.8	112.2	902.9
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):

	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°	4083.6	4116.5	4083.0	4058.7	3954.0	3867.8	3752.7	3693.7
5°	4389.5	4473.4	4445.1	4343.3	4124.6	3878.8	3599.4	3473.3
7.5°	4352.5	4547.4	4552.1	4361.8	4039.6	3677.5	3299.2	3119.9
10°	4064.5	4313.8	4384.9	4200.4	3858.6	3453.7	3019.9	2815.1
12.5°	3742.9	3987.0	4041.3	3977.7	3692.0	3285.4	2845.2	2644.5
15°	3479.7	3589.0	3653.8	3709.3	3549.1	3218.3	2835.4	2615.0
17.5°	3319.5	3307.3	3325.8	3422.4	3449.6	3295.2	2985.7	2742.8
20°	3261.6	3076.0	3071.3	3204.4	3402.8	3478.5	3279.6	2988.1
22.5°	3293.5	2992.7	2954.5	3112.4	3427.6	3742.9	3664.8	3332.2
25°	3403.4	2999.6	2969.0	3121.7	3517.9	4024.6	4080.7	3777.6
27.5°	3576.3	3043.6	3003.1	3159.8	3637.6	4261.1	4490.2	4209.1
30°	3740.6	3119.9	3069.6	3235.0	3746.9	4354.8	4741.2	4545.7
32.5°	3940.1	3262.8	3174.3	3373.3	3882.3	4504.1	4965.1	4824.5
35°	4135.6	3466.4	3356.5	3586.7	4033.2	4689.7	5220.7	5180.8
37.5°	4350.2	3732.5	3641.7	3862.6	4239.7	4865.0	5546.9	5598.4
40°	4579.3	4085.3	3977.7	4265.2	4560.2	5084.8	5887.6	6011.4
42.5°	4810.0	4476.9	4348.5	4640.0	4912.4	5301.7	6179.1	6362.5
45°	5074.4	4902.0	4841.3	5156.5	5250.8	5508.2	6394.3	6622.2
47.5°	5382.1	5384.4	5482.2	5608.2	5592.1	5741.9	6610.6	6854.1
50°	5741.3	5986.5	6202.3	6286.1	5943.7	5992.9	6910.8	7164.7
52.5°	6172.8	6706.6	6973.9	6918.9	6322.6	6299.4	7386.3	7592.8
55°	6712.4	7469.0	7734.5	7695.1	6758.1	6717.1	7978.6	8098.9
57.5°	7337.1	8207.6	8451.7	8274.7	7281.0	7175.2	8468.5	8493.9
60°	7886.0	8793.0	9007.0	8810.9	7808.5	7662.8	8774.5	8651.3
62.5°	8191.4	8991.4	9141.7	8930.6	8170.0	8182.2	8841.6	8566.2
65°	8054.9	8489.9	8538.5	8521.1	8076.9	8483.5	8600.4	8173.5
67.5°	7307.6	7222.0	7303.6	7416.4	7278.7	8086.7	7932.3	7318.0
70°	5991.2	5520.9	5683.4	5759.2	5821.7	6958.8	6884.8	5960.5
72.5°	4515.1	3867.8	3996.2	3980.6	4269.8	5581.6	5354.3	4382.6
75°	3199.2	2622.5	2638.7	2632.3	2979.4	4367.0	3877.1	2998.5
77.5°	2238.4	1900.1	1908.7	1944.6	2003.0	3293.5	2770.0	2190.4
80°	1539.1	1442.0	1490.0	1492.9	1388.2	2212.4	2046.4	1757.8
82.5°	1146.4	1002.4	990.8	1007.6	1088.0	1792.5	1572.7	1219.3
85°	938.8	593.4	477.2	598.1	964.2	1775.1	1044.6	643.2
87.5°	528.7	281.7	127.2	236.0	384.6	1175.3	301.9	82.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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