

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: P269254

Luminaire Tested: **GLEON-AF-04-LED-E1-SLR-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269254
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-04-LED-E1-SLR-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 12079.1 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 129
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

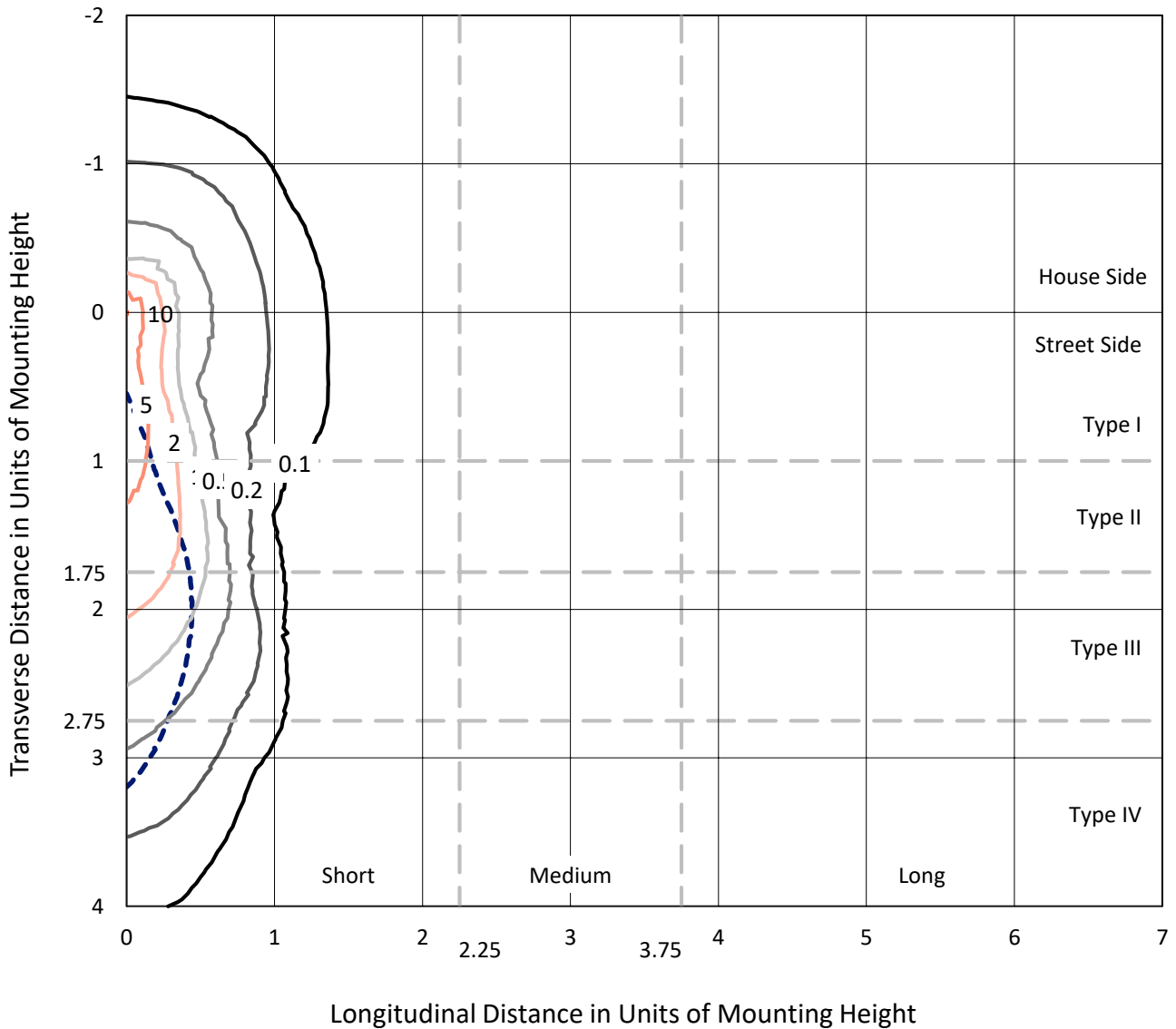


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

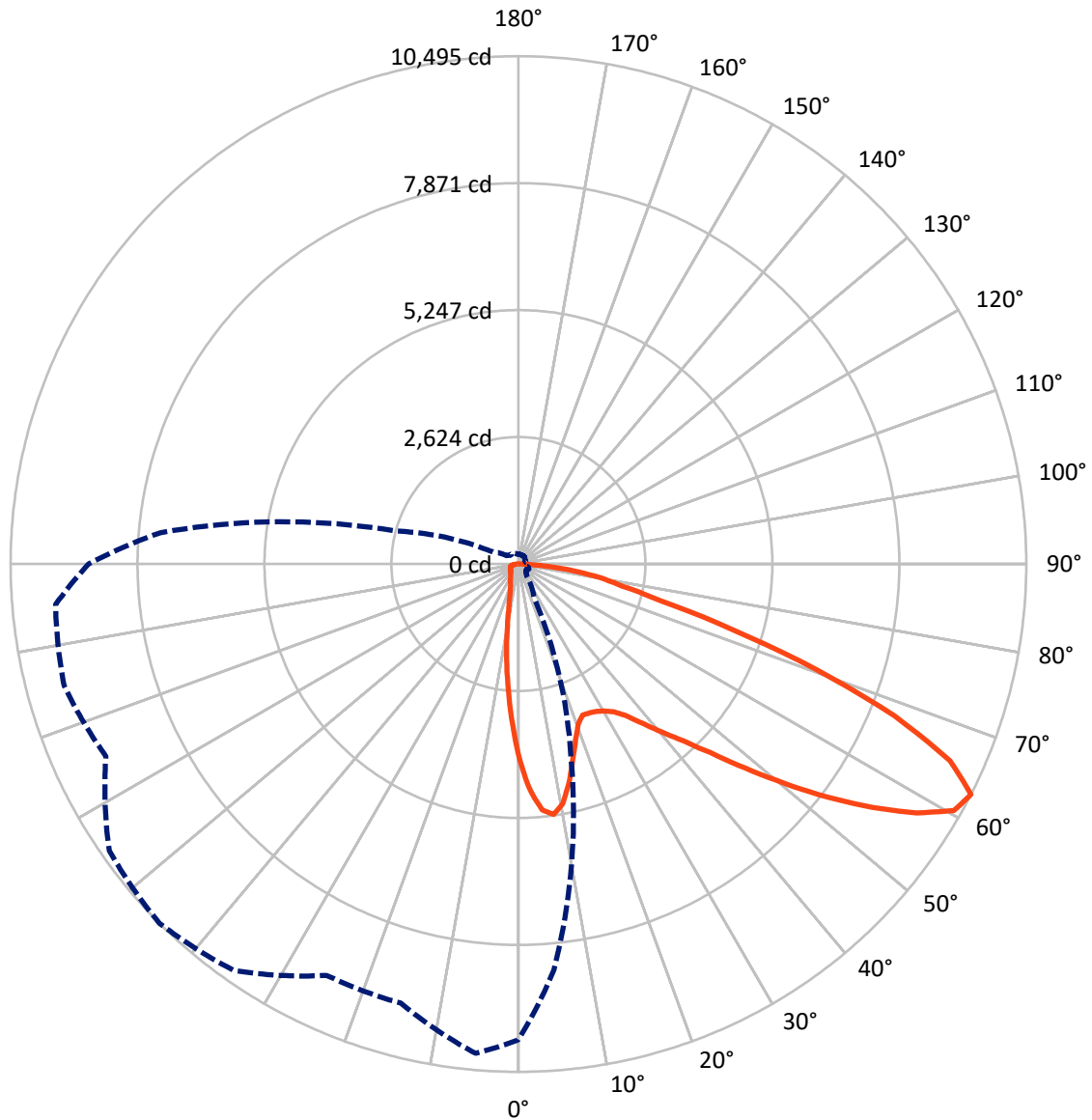


Based on 20 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Short - Non-Cutoff

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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	1998.9	0.0	1998.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	10080.2	0.0	10080.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	12079.1	0.0	12079.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.1	2.5
10°-20°	544.8	4.5
20°-30°	794.3	6.6
30°-40°	1223.3	10.1
40°-50°	1800.3	14.9
50°-60°	2640.7	21.9
60°-70°	2951.9	24.4
70°-80°	1445.2	12.0
80°-90°	381.6	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°	12079.1	100.0
0°-180°	12079.1	100.0



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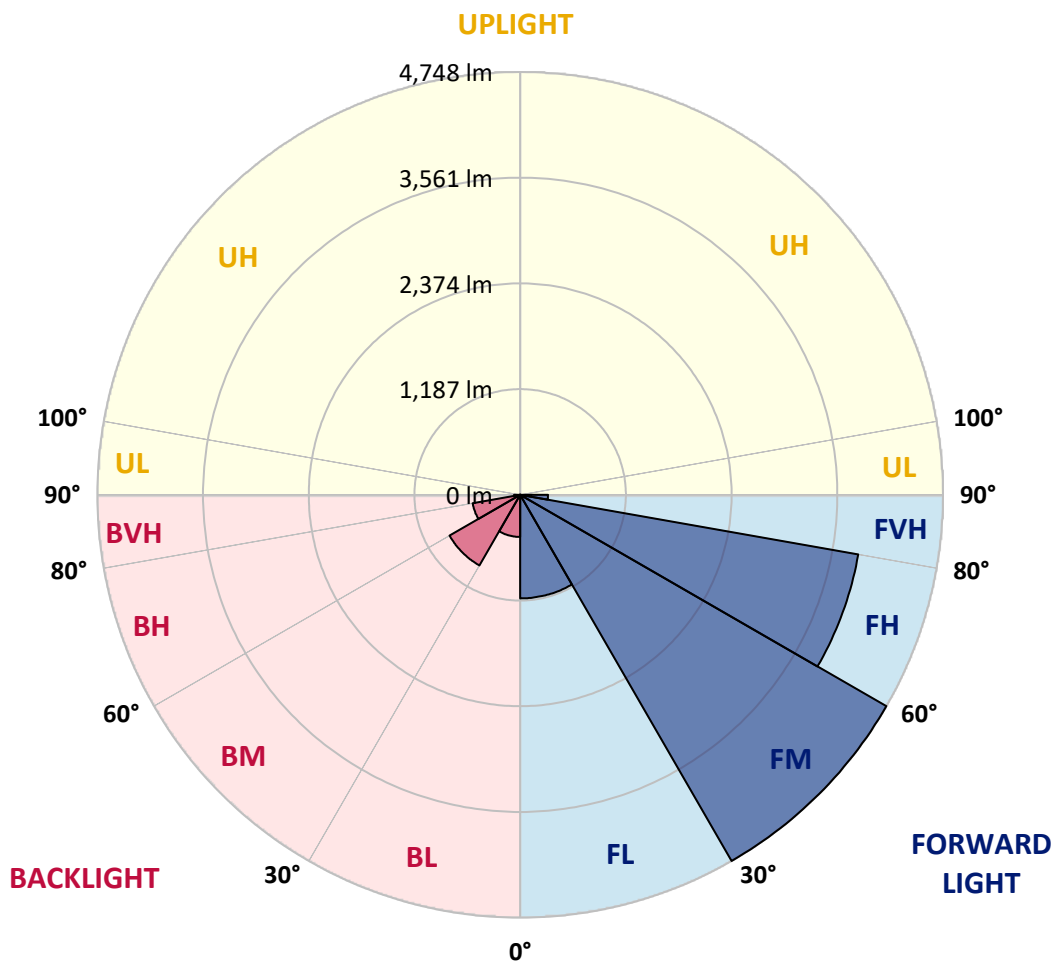
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1163.2	9.6			
FM (30°-60°)	4748.4	39.3			
FH (60°-80°)	3855.2	31.9			G2/5000
FVH (80°-90°)	313.4	2.6			G3/500
BL (0°-30°)	472.9	3.9	B1/500		
BM (30°-60°)	915.9	7.6	B1/1000		
BH (60°-80°)	541.9	4.5	B2/1000		G2/1000
BVH (80°-90°)	68.2	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0
2.5°	4240.3	4154.0	4010.7	3861.2	3770.2	3663.9	3581.0	3507.9	3361.8	3333.3	3359.2
5°	3987.3	3814.1	3543.9	3271.5	3090.3	2895.7	2744.3	2622.8	2437.6	2405.0	2444.2
7.5°	3581.6	3374.5	3017.2	2669.9	2413.7	2170.7	2007.4	1877.2	1732.4	1669.9	1673.9
10°	3231.7	2998.0	2575.7	2197.9	1987.9	1824.0	1686.6	1553.1	1406.3	1310.1	1283.5
12.5°	3035.8	2766.9	2280.2	1942.9	1748.3	1575.6	1427.5	1284.8	1128.1	1029.8	1002.0
15°	3002.0	2709.7	2169.2	1779.5	1535.8	1317.4	1142.7	983.4	821.9	742.4	725.7
17.5°	3148.6	2812.1	2133.5	1634.0	1336.0	1066.4	852.0	674.0	542.4	502.6	499.4
20°	3430.3	3008.7	2128.9	1497.4	1138.8	822.7	593.6	464.2	406.4	395.1	395.8
22.5°	3825.3	3313.4	2185.8	1394.3	957.6	613.5	446.2	388.4	365.9	355.2	355.2
25°	4336.6	3733.0	2317.4	1319.4	800.1	490.0	393.7	359.2	338.0	330.7	332.1
27.5°	4832.0	4141.4	2470.1	1260.3	697.3	444.9	373.2	342.0	323.4	316.1	319.3
30°	5218.4	4503.9	2597.5	1180.0	644.8	432.3	380.5	348.6	322.0	310.8	311.4
32.5°	5538.5	4821.4	2704.4	1122.2	598.4	370.6	328.1	314.0	310.8	297.5	290.8
35°	5947.5	5167.3	2776.2	1123.5	576.4	330.7	292.2	267.5	249.6	234.4	234.4
37.5°	6427.0	5564.3	2852.6	1138.8	568.4	307.4	279.6	254.9	238.4	223.8	221.2
40°	6901.0	5953.4	2922.2	1153.3	563.7	293.4	269.6	247.0	231.8	217.1	213.2
42.5°	7304.1	6273.6	2984.7	1160.7	547.7	292.2	262.2	241.7	227.1	211.1	207.1
45°	7602.1	6541.7	3051.7	1172.0	531.8	297.5	262.2	241.0	223.0	207.9	203.8
47.5°	7868.4	6856.6	3164.0	1172.0	512.7	287.5	270.8	241.7	222.4	206.5	203.1
50°	8225.1	7288.0	3376.5	1144.7	485.4	276.9	285.5	239.0	216.4	203.8	199.9
52.5°	8716.3	7841.2	3713.8	1097.5	443.6	256.2	283.5	237.7	210.6	197.2	192.5
55°	9297.4	8433.5	4081.5	1042.6	381.2	241.7	273.5	234.4	203.8	189.3	184.6
57.5°	9750.9	8841.2	4340.6	957.6	326.8	233.6	242.4	231.0	195.9	180.6	176.6
60°	9931.5	8825.3	4411.7	844.0	300.2	227.1	211.8	258.9	189.3	174.0	169.3
62.5°	9833.8	8417.6	4212.4	764.3	294.1	218.5	198.5	239.7	184.0	169.3	162.8
65°	9383.1	7695.2	3684.6	743.0	311.4	209.8	189.9	187.9	176.6	162.8	156.0
67.5°	8400.9	6615.5	2950.2	745.1	333.4	201.2	181.3	171.9	166.6	155.3	149.4
70°	6842.6	5230.3	2199.2	750.4	344.6	191.2	171.9	162.1	156.0	144.7	140.8
72.5°	5031.1	4031.1	1597.5	715.8	346.6	179.9	159.4	150.7	144.7	132.8	129.4
75°	3442.1	3083.6	1108.1	592.9	302.1	164.0	145.4	137.4	133.5	118.8	116.9
77.5°	2514.5	2314.8	709.1	440.2	233.1	144.1	128.2	122.2	119.6	103.6	100.9
80°	2018.0	1831.4	443.6	301.4	170.7	120.8	107.5	104.3	101.6	85.7	83.6
82.5°	1399.6	1226.5	284.9	195.9	128.2	93.7	85.0	83.6	79.7	65.0	63.2
85°	738.3	666.1	180.6	133.5	93.0	64.4	59.1	59.1	57.1	43.2	41.9
87.5°	94.3	153.4	91.6	69.7	51.2	28.6	28.6	27.8	29.9	24.6	21.2
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°	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0
2.5°	3298.0	3329.9	3299.5	3301.5	3335.2	3436.2	3482.0	3519.9	3560.4	3586.9	3598.9
5°	2390.4	2464.8	2490.0	2543.1	2621.4	2750.3	2801.5	2838.6	2863.2	2877.8	2883.7
7.5°	1634.7	1679.9	1730.3	1816.1	1986.7	2062.4	2096.3	2087.7	2059.8	2049.8	2039.8
10°	1232.4	1214.5	1205.2	1252.2	1390.4	1466.8	1490.6	1467.4	1452.2	1455.6	1472.1
12.5°	954.9	923.6	885.8	880.5	971.4	1039.8	1055.1	1056.4	1084.3	1108.9	1145.3
15°	695.8	692.6	674.0	662.7	714.4	770.2	776.9	788.8	814.0	832.0	863.9
17.5°	490.7	508.6	523.3	530.4	569.7	609.6	602.3	596.3	591.7	591.7	607.0
20°	395.8	407.7	426.2	447.5	487.4	515.3	497.3	473.4	456.2	450.9	452.8
22.5°	356.5	365.9	376.5	395.1	430.9	450.2	430.9	413.7	396.4	390.5	388.4
25°	336.7	348.6	358.6	372.4	399.0	412.3	393.7	381.2	370.6	363.3	358.0
27.5°	325.4	336.0	338.7	345.3	367.9	379.9	370.6	365.3	358.6	352.0	345.3
30°	313.4	311.4	306.9	307.4	325.4	337.4	336.7	338.0	337.4	335.2	334.0
32.5°	286.2	282.2	278.3	282.2	298.7	309.5	310.1	312.7	312.7	312.2	317.5
35°	238.4	245.6	250.4	262.2	282.2	291.5	287.5	280.9	269.0	261.6	261.0
37.5°	220.4	221.8	229.7	246.3	268.2	276.9	270.8	255.7	247.7	246.3	248.3
40°	211.8	213.2	217.7	233.1	254.9	263.7	258.4	247.0	239.7	239.0	242.4
42.5°	205.8	207.1	209.8	220.4	238.4	249.0	249.6	241.7	233.1	233.6	237.1
45°	202.5	203.1	202.5	207.9	224.4	237.1	242.4	237.1	229.7	231.0	235.0
47.5°	201.8	199.9	197.2	198.5	215.9	228.3	235.0	233.1	229.7	231.0	234.4
50°	199.2	194.6	191.2	190.6	207.9	221.2	227.1	227.1	228.3	231.0	234.4
52.5°	191.2	185.9	185.9	184.0	202.5	215.1	219.1	219.7	221.8	226.5	231.0
55°	181.3	179.3	181.3	178.0	198.5	210.6	212.4	213.7	215.1	219.1	225.7
57.5°	172.7	170.0	174.6	173.4	195.2	205.8	205.8	208.4	208.4	213.7	219.1
60°	168.1	162.8	164.7	165.9	190.6	201.8	200.5	203.1	204.5	209.1	213.2
62.5°	162.1	157.4	157.4	160.6	185.3	195.9	195.2	197.2	202.5	203.8	207.9
65°	154.7	152.7	150.7	154.7	179.9	189.3	189.9	192.5	197.2	198.5	201.8
67.5°	147.4	148.1	144.1	148.1	175.3	182.5	182.5	187.9	189.9	192.5	195.9
70°	139.4	140.0	136.8	141.5	171.9	175.3	174.6	181.9	183.3	185.3	188.6
72.5°	129.4	129.4	128.2	134.7	166.6	168.1	166.6	172.7	173.4	175.3	176.6
75°	118.8	118.8	117.5	126.8	163.3	160.0	156.0	160.6	162.1	163.3	163.3
77.5°	104.9	106.2	106.2	117.5	152.1	156.8	143.4	146.1	148.1	148.7	146.8
80°	87.7	91.0	92.3	106.9	127.5	144.7	128.2	130.2	130.9	130.9	128.2
82.5°	67.1	73.0	76.4	92.3	97.6	121.5	111.6	113.5	111.6	107.5	106.2
85°	46.5	54.4	58.4	70.3	73.8	93.7	93.0	93.0	89.0	83.6	83.1
87.5°	25.2	29.9	32.6	41.9	50.5	63.2	68.5	66.5	63.2	59.7	60.5
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0
2.5°	3661.3	3751.6	3895.7	4005.9	4116.8	4223.7	4339.3	4427.6	4502.7	4531.8	4620.8
5°	2944.1	3057.1	3193.1	3438.9	3612.9	3804.7	4026.6	4319.9	4432.9	4588.9	4844.6
7.5°	2081.6	2183.9	2403.1	2601.6	2847.8	3119.5	3418.9	3823.9	3972.0	4222.5	4638.8
10°	1554.4	1673.4	1849.3	2016.5	2233.7	2511.2	2855.3	3308.1	3487.9	3759.5	4239.0
12.5°	1252.2	1392.5	1579.0	1736.3	1904.3	2100.2	2434.2	2930.9	3171.9	3409.6	3894.4
15°	962.2	1108.9	1282.2	1482.1	1667.3	1878.4	2228.3	2771.5	3049.0	3296.8	3710.4
17.5°	666.1	791.4	1010.0	1218.5	1455.6	1725.7	2171.4	2805.3	3136.7	3422.3	3742.2
20°	472.1	543.8	723.0	964.8	1260.3	1599.6	2160.7	2983.5	3414.3	3740.4	3946.9
22.5°	397.1	423.6	527.8	749.6	1090.9	1505.3	2197.9	3233.0	3788.8	4205.1	4272.9
25°	361.8	377.7	432.3	588.3	940.3	1436.8	2323.3	3604.9	4252.2	4670.0	4658.0
27.5°	342.7	359.2	395.1	496.7	826.7	1394.3	2448.9	4045.7	4782.1	5174.5	5025.8
30°	336.7	359.2	397.1	468.1	745.7	1327.3	2551.7	4432.9	5189.9	5515.2	5193.2
32.5°	332.1	335.2	352.6	403.7	668.7	1249.1	2621.4	4780.2	5589.0	5839.3	5434.1
35°	268.2	284.9	312.7	361.8	623.6	1201.8	2621.4	5079.6	5982.1	6166.7	5664.0
37.5°	258.4	272.9	297.5	339.3	598.4	1178.5	2569.1	5368.5	6383.7	6537.8	5853.1
40°	253.1	264.9	288.1	322.0	587.6	1152.0	2492.6	5623.5	6776.2	6909.7	6029.9
42.5°	249.0	259.6	281.4	311.4	573.7	1122.8	2431.0	5827.9	7116.8	7227.0	6198.5
45°	247.0	258.4	282.2	316.7	545.8	1084.3	2410.3	6049.0	7397.1	7492.0	6381.1
47.5°	247.0	260.2	285.5	328.1	512.7	1044.5	2474.7	6340.5	7662.0	7708.4	6596.3
50°	245.0	259.6	294.9	316.7	464.2	994.1	2626.1	6707.7	7948.8	7954.1	6868.5
52.5°	241.0	258.4	317.5	310.1	408.4	927.6	2830.6	7179.3	8373.1	8404.9	7294.7
55°	236.3	256.2	311.4	294.9	362.6	848.5	2998.0	7752.3	8969.3	9057.7	7921.6
57.5°	230.4	253.6	301.4	273.5	332.6	747.0	3058.4	8171.9	9385.8	9607.5	8628.1
60°	225.0	251.6	272.2	261.0	314.0	661.3	2941.5	8088.9	9357.1	9835.3	9254.2
62.5°	219.7	253.6	248.3	253.1	305.5	606.3	2636.0	7424.2	8883.7	9600.1	9718.4
65°	213.7	235.7	234.4	246.3	303.4	584.3	2185.2	6427.6	7968.8	8857.2	9827.9
67.5°	205.8	217.7	224.4	237.7	310.1	565.0	1763.6	5302.1	6697.1	7743.6	9256.9
70°	197.2	207.1	214.4	227.1	306.1	556.4	1466.8	4181.3	5314.1	6346.5	8130.1
72.5°	185.9	194.6	201.2	213.2	302.1	551.7	1239.0	3367.1	3967.5	4714.5	6610.2
75°	172.7	180.6	185.3	197.2	289.6	505.2	974.1	2849.2	2968.8	3279.5	5264.8
77.5°	157.4	163.3	167.4	180.6	256.2	420.2	704.5	2197.9	2305.4	2381.0	4036.4
80°	139.4	145.4	147.4	160.0	212.4	328.7	459.6	1623.4	1724.4	1741.6	2636.0
82.5°	118.8	124.9	124.9	136.8	174.0	236.3	301.4	1112.2	1132.1	1190.6	1863.2
85°	95.6	100.3	100.3	106.2	134.7	176.6	207.1	558.4	552.5	630.8	1614.3
87.5°	68.5	71.8	75.0	76.4	96.3	116.9	124.9	170.0	112.2	128.7	1036.6
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0
2.5°	4687.9	4725.8	4687.1	4659.2	4539.1	4440.2	4308.0	4240.3
5°	5039.1	5135.4	5102.9	4986.0	4735.1	4452.8	4132.2	3987.3
7.5°	4996.6	5220.4	5225.7	5007.2	4637.4	4221.8	3787.4	3581.6
10°	4665.9	4952.1	5033.8	4822.0	4429.5	3964.8	3466.7	3231.7
12.5°	4296.8	4577.0	4639.3	4566.4	4238.4	3771.5	3266.2	3035.8
15°	3994.7	4120.2	4194.5	4258.2	4074.4	3694.5	3255.0	3002.0
17.5°	3810.7	3796.7	3818.1	3928.8	3960.1	3782.9	3427.7	3148.6
20°	3744.3	3531.1	3525.8	3678.6	3906.3	3993.3	3764.8	3430.3
22.5°	3780.8	3435.6	3391.7	3573.0	3934.8	4296.8	4207.1	3825.3
25°	3907.0	3443.6	3408.3	3583.6	4038.5	4620.2	4684.5	4336.6
27.5°	4105.6	3494.0	3447.5	3627.4	4176.0	4891.7	5154.7	4832.0
30°	4294.1	3581.6	3524.0	3713.8	4301.4	4999.2	5442.8	5218.4
32.5°	4523.1	3745.7	3644.1	3872.5	4456.9	5170.6	5699.8	5538.5
35°	4747.6	3979.4	3853.2	4117.6	4630.1	5383.7	5993.3	5947.5
37.5°	4993.9	4284.8	4180.5	4434.3	4867.1	5584.9	6367.7	6427.0
40°	5256.9	4689.8	4566.4	4896.3	5235.1	5837.2	6758.8	6901.0
42.5°	5521.8	5139.5	4992.1	5326.6	5639.4	6086.2	7093.6	7304.1
45°	5825.2	5627.4	5557.8	5919.7	6027.8	6323.3	7340.6	7602.1
47.5°	6178.5	6181.1	6293.4	6438.2	6419.6	6591.6	7588.9	7868.4
50°	6591.0	6872.5	7120.1	7216.4	6823.3	6879.8	7933.6	8225.1
52.5°	7086.3	7699.2	8005.9	7942.9	7258.2	7231.6	8479.3	8716.3
55°	7705.8	8574.3	8879.0	8833.9	7758.2	7711.1	9159.3	9297.4
57.5°	8422.9	9422.2	9702.5	9499.2	8358.5	8237.0	9721.6	9750.9
60°	9052.9	10094.2	10339.9	10114.7	8964.0	8796.7	10073.0	9931.5
62.5°	9403.6	10322.0	10494.5	10252.3	9379.1	9392.9	10149.9	9833.8
65°	9247.0	9746.3	9802.0	9782.2	9272.1	9739.0	9873.1	9383.1
67.5°	8389.0	8290.7	8384.4	8513.9	8355.9	9283.4	9106.2	8400.9
70°	6877.8	6337.9	6524.5	6611.4	6683.2	7988.6	7903.6	6842.6
72.5°	5183.2	4440.2	4587.6	4569.7	4901.7	6407.6	6146.7	5031.1
75°	3672.6	3010.6	3029.2	3021.9	3420.2	5013.3	4450.8	3442.1
77.5°	2569.7	2181.3	2191.2	2232.4	2299.4	3780.8	3179.9	2514.5
80°	1767.0	1655.3	1710.5	1713.7	1593.7	2539.8	2349.2	2018.0
82.5°	1316.0	1150.6	1137.4	1156.7	1249.1	2057.7	1805.5	1399.6
85°	1077.6	681.3	547.7	686.6	1106.9	2037.8	1199.1	738.3
87.5°	607.0	323.4	146.1	270.8	441.5	1349.3	346.6	94.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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