

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: P193871

Luminaire Tested: **GLEON-AF-03-LED-E1-SLR-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193871
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-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA 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: 13032 lumens
Efficiency: N/A
Efficacy: 78.5 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

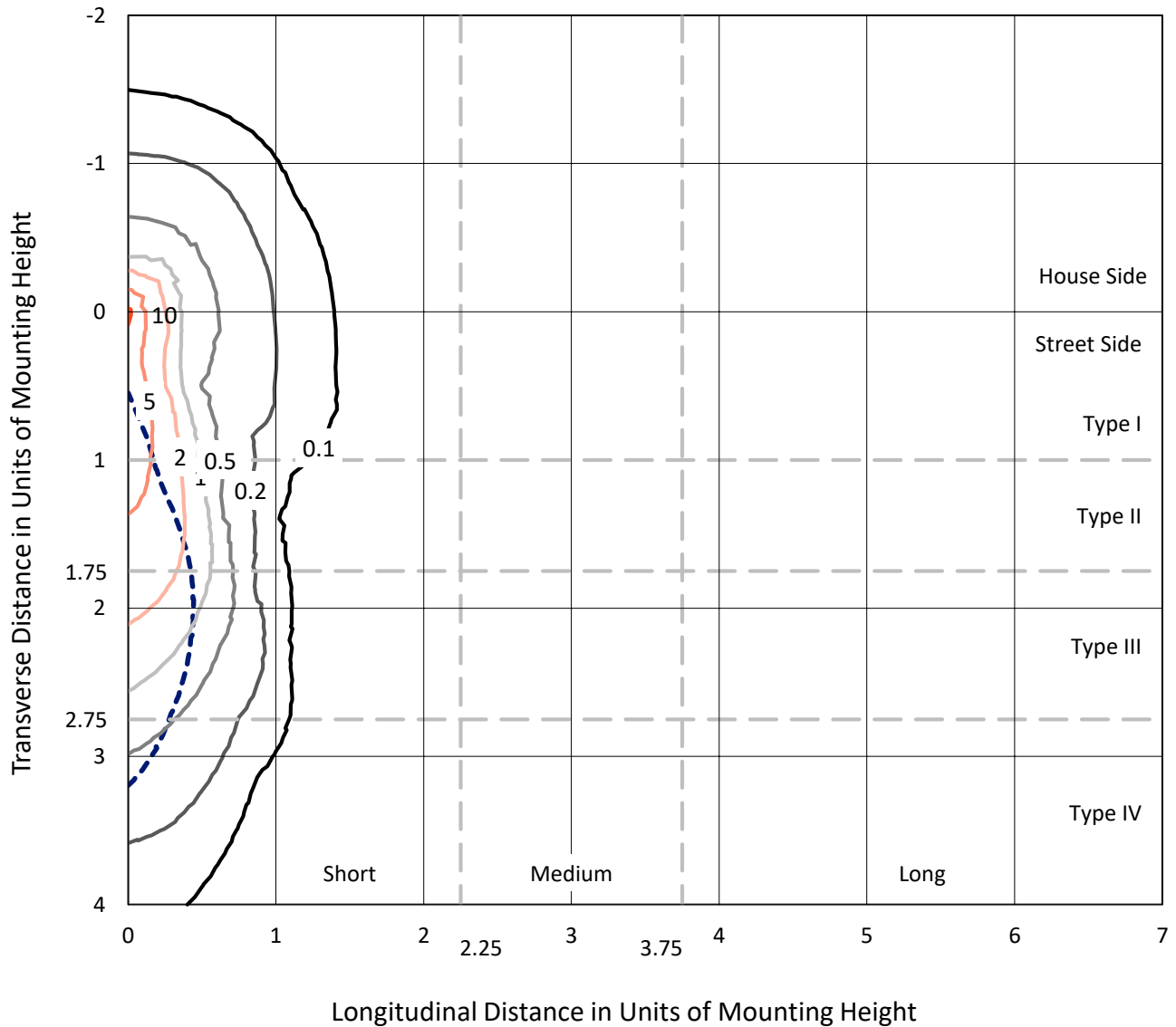
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

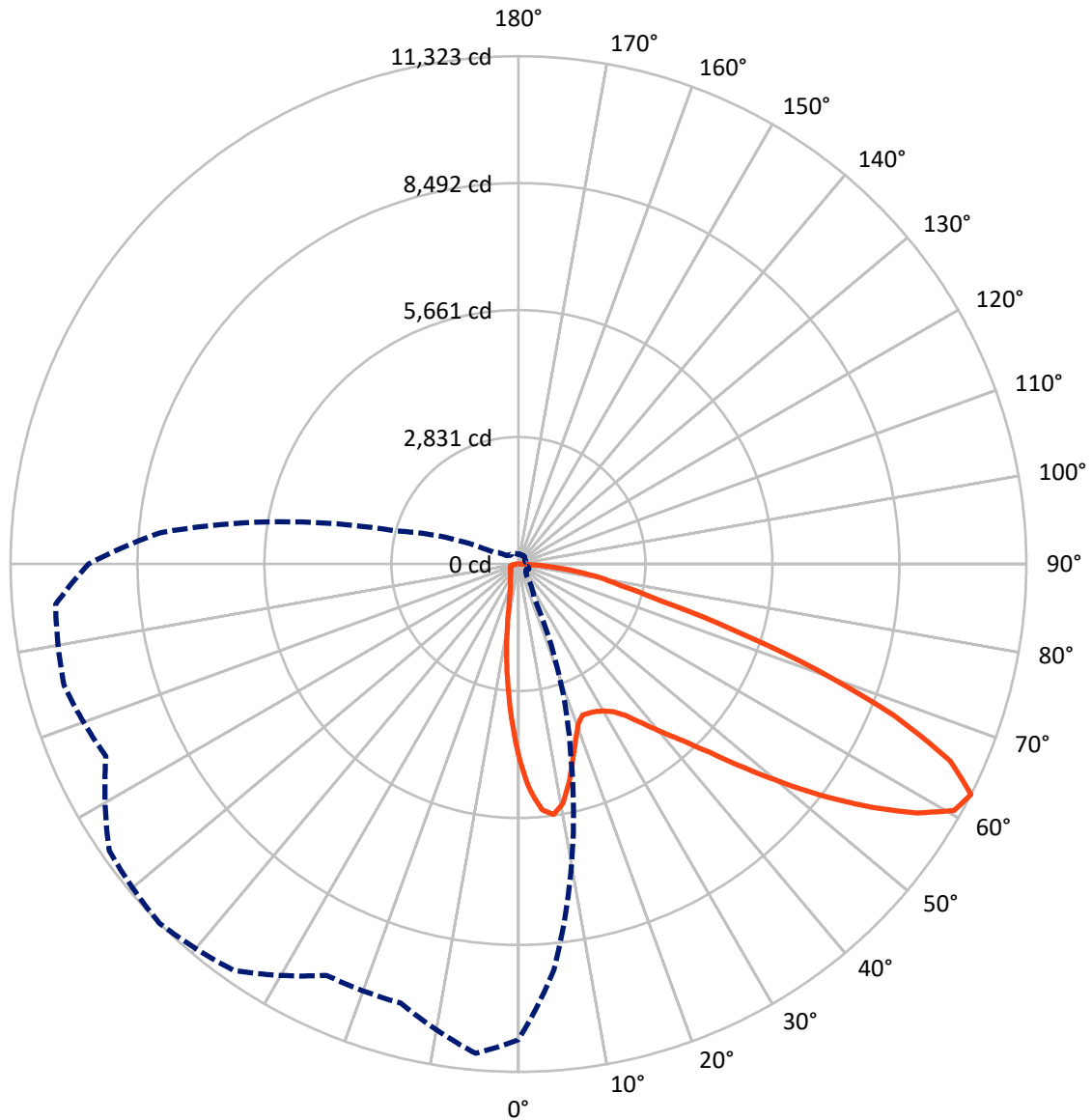
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11 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	2156.6	0.0	2156.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	10875.4	0.0	10875.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	13032.0	0.0	13032.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.5	2.5
10°-20°	587.7	4.5
20°-30°	856.9	6.6
30°-40°	1319.8	10.1
40°-50°	1942.4	14.9
50°-60°	2849.0	21.9
60°-70°	3184.8	24.4
70°-80°	1559.2	12.0
80°-90°	411.7	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°	13032.0	100.0
0°-180°	13032.0	100.0



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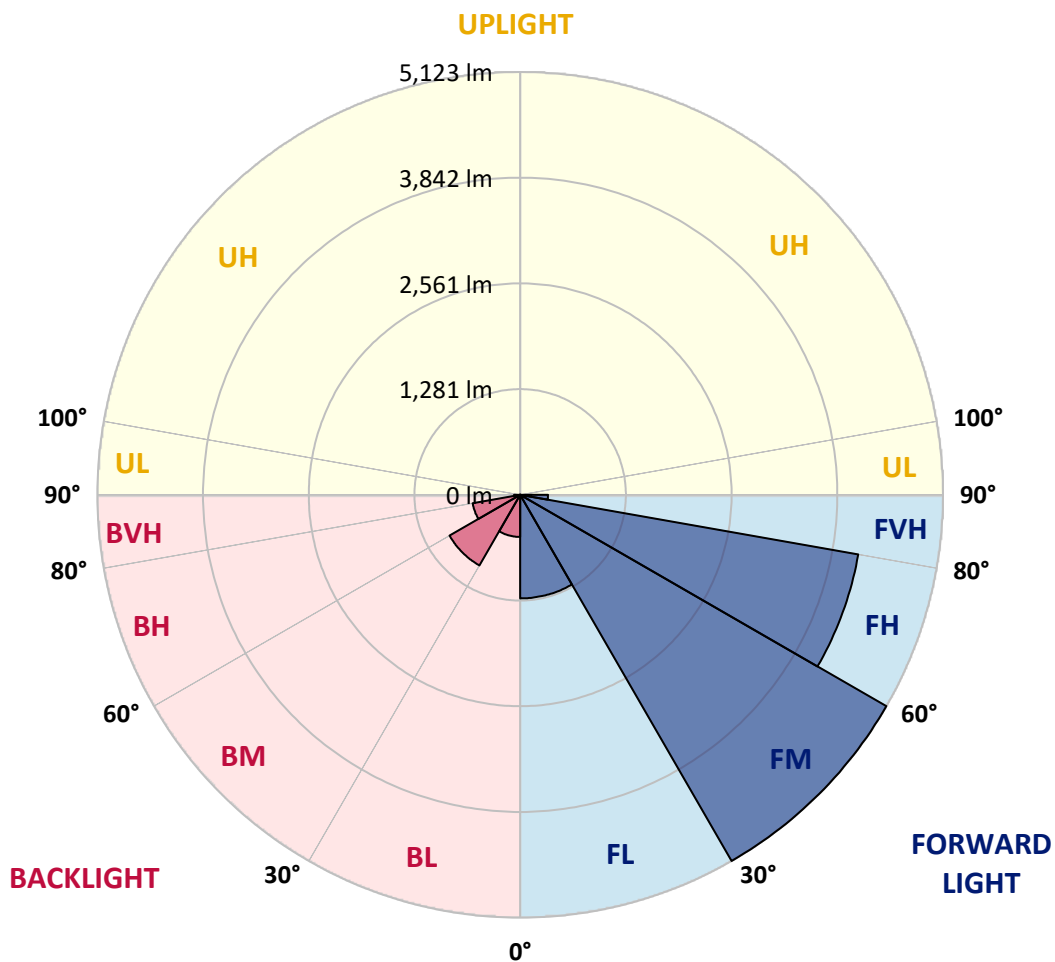
CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1254.9	9.6			
FM	(30°-60°)	5123.0	39.3			
FH	(60°-80°)	4159.4	31.9			G2/5000
FVH	(80°-90°)	338.1	2.6			G3/500
BL	(0°-30°)	510.2	3.9	B2/1000		
BM	(30°-60°)	988.1	7.6	B1/1000		
BH	(60°-80°)	584.7	4.5	B2/1000		G2/1000
BVH	(80°-90°)	73.6	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°	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9
2.5°	4574.8	4481.7	4327.0	4165.8	4067.6	3953.0	3863.5	3784.7	3627.1	3596.3	3624.2
5°	4301.9	4114.9	3823.4	3529.6	3334.1	3124.2	2960.8	2829.7	2629.9	2594.8	2637.0
7.5°	3864.2	3640.7	3255.3	2880.6	2604.1	2341.9	2165.6	2025.2	1869.1	1801.7	1806.0
10°	3486.7	3234.5	2778.9	2371.2	2144.9	1967.9	1819.6	1675.6	1517.3	1413.4	1384.8
12.5°	3275.3	2985.2	2460.1	2096.1	1886.2	1700.0	1540.2	1386.2	1217.1	1111.1	1081.0
15°	3238.8	2923.6	2340.4	1919.9	1657.0	1421.3	1232.9	1061.0	886.9	800.9	783.0
17.5°	3397.1	3033.9	2301.7	1763.0	1441.4	1150.5	919.1	727.1	585.3	542.3	538.7
20°	3700.9	3245.9	2296.7	1615.5	1228.6	887.6	640.4	500.8	438.4	426.2	427.0
22.5°	4127.1	3574.8	2358.3	1504.4	1033.0	661.9	481.4	419.1	394.7	383.3	383.3
25°	4678.7	4027.5	2500.2	1423.5	863.2	528.7	424.8	387.6	364.6	356.8	358.2
27.5°	5213.1	4468.1	2665.0	1359.7	752.2	480.0	402.6	368.9	348.9	341.0	344.6
30°	5630.1	4859.2	2802.5	1273.0	695.6	466.4	410.5	376.1	347.4	335.3	336.0
32.5°	5975.4	5201.7	2917.8	1210.7	645.5	399.7	353.9	338.9	335.3	320.9	313.8
35°	6416.7	5574.9	2995.2	1212.1	621.8	356.8	315.2	288.7	269.4	252.9	252.9
37.5°	6933.9	6003.3	3077.6	1228.6	613.2	331.7	301.6	275.1	257.2	241.4	238.6
40°	7445.4	6423.1	3152.8	1244.4	608.2	316.6	290.9	266.5	250.0	234.3	230.0
42.5°	7880.3	6768.4	3220.2	1252.2	591.0	315.2	283.0	260.8	245.0	227.8	223.5
45°	8201.9	7057.8	3292.5	1264.4	573.8	320.9	283.0	260.0	240.7	224.2	219.9
47.5°	8489.2	7397.4	3413.6	1264.4	553.1	310.2	292.3	260.8	240.0	222.8	219.2
50°	8873.9	7863.1	3642.8	1235.1	523.7	298.7	308.0	257.9	233.5	219.9	215.6
52.5°	9404.0	8459.8	4006.7	1184.2	478.5	276.5	305.9	256.5	227.1	212.8	207.8
55°	10030.8	9098.8	4403.6	1124.7	411.2	260.8	295.2	252.9	219.9	204.2	199.2
57.5°	10520.1	9538.7	4683.0	1033.0	352.5	252.2	261.5	249.3	211.3	194.9	190.6
60°	10715.0	9521.5	4759.7	910.5	323.8	245.0	228.5	279.4	204.2	187.7	182.7
62.5°	10609.7	9081.6	4544.8	824.6	317.4	235.7	214.2	258.6	198.4	182.7	175.5
65°	10123.3	8302.2	3975.2	801.6	336.0	226.4	204.9	202.7	190.6	175.5	168.4
67.5°	9063.7	7137.4	3182.9	803.8	359.6	217.1	195.6	185.5	179.8	167.6	161.2
70°	7382.4	5643.0	2372.7	809.5	371.8	206.3	185.5	174.8	168.4	156.2	151.9
72.5°	5428.1	4349.2	1723.6	772.3	374.0	194.1	171.9	162.6	156.2	143.3	139.7
75°	3713.7	3326.9	1195.6	639.7	326.0	176.9	156.9	148.3	144.0	128.2	126.1
77.5°	2713.0	2497.3	765.1	475.0	251.5	155.5	138.3	131.8	128.9	111.8	108.9
80°	2177.1	1975.8	478.5	325.2	184.1	130.4	116.1	112.5	109.6	92.4	90.3
82.5°	1510.1	1323.2	307.3	211.3	138.3	101.0	91.7	90.3	86.0	70.2	68.1
85°	796.6	718.5	194.9	144.0	100.3	69.5	63.8	63.8	61.6	46.6	45.1
87.5°	101.7	165.5	98.9	75.2	55.2	30.8	30.8	30.1	32.2	26.5	22.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9
2.5°	3558.3	3592.7	3559.7	3561.9	3598.4	3707.3	3756.7	3797.6	3841.3	3869.9	3882.8
5°	2579.0	2659.2	2686.4	2743.8	2828.3	2967.3	3022.4	3062.6	3089.1	3104.8	3111.3
7.5°	1763.7	1812.5	1866.9	1959.3	2143.4	2225.1	2261.6	2252.3	2222.2	2211.5	2200.7
10°	1329.6	1310.3	1300.2	1351.1	1500.1	1582.5	1608.3	1583.2	1566.7	1570.3	1588.2
12.5°	1030.2	996.5	955.7	949.9	1048.1	1121.9	1138.3	1139.8	1169.9	1196.4	1235.8
15°	750.8	747.2	727.1	715.0	770.8	831.0	838.2	851.1	878.3	897.6	932.0
17.5°	529.4	548.8	564.5	572.4	614.7	657.6	649.8	643.3	638.3	638.3	654.8
20°	427.0	439.9	459.9	482.8	525.8	555.9	536.6	510.8	492.2	486.4	488.6
22.5°	384.7	394.7	406.2	426.2	464.9	485.7	464.9	446.3	427.7	421.2	419.1
25°	363.2	376.1	386.8	401.9	430.5	444.9	424.8	411.2	399.7	391.9	386.1
27.5°	351.0	362.5	365.4	372.5	396.9	409.8	399.7	394.0	386.8	379.7	372.5
30°	338.1	336.0	331.0	331.7	351.0	363.9	363.2	364.6	363.9	361.8	360.3
32.5°	308.8	304.5	300.2	304.5	322.4	333.8	334.6	337.4	337.4	336.7	342.4
35°	257.2	265.1	270.1	283.0	304.5	314.5	310.2	303.0	290.1	282.3	281.5
37.5°	237.8	239.3	247.9	265.8	289.4	298.7	292.3	275.8	267.2	265.8	267.9
40°	228.5	230.0	235.0	251.5	275.1	284.4	278.7	266.5	258.6	257.9	261.5
42.5°	222.1	223.5	226.4	237.8	257.2	268.6	269.4	260.8	251.5	252.2	255.7
45°	218.5	219.2	218.5	224.2	242.1	255.7	261.5	255.7	247.9	249.3	253.6
47.5°	217.8	215.6	212.8	214.2	232.8	246.4	253.6	251.5	247.9	249.3	252.9
50°	214.9	209.9	206.3	205.6	224.2	238.6	245.0	245.0	246.4	249.3	252.9
52.5°	206.3	200.6	200.6	198.4	218.5	232.1	236.4	237.1	239.3	244.3	249.3
55°	195.6	193.4	195.6	192.0	214.2	227.1	229.2	230.7	232.1	236.4	243.6
57.5°	186.3	183.4	188.4	187.0	210.6	222.1	222.1	224.9	224.9	230.7	236.4
60°	181.2	175.5	177.7	179.1	205.6	217.8	216.3	219.2	220.6	225.7	230.0
62.5°	174.8	169.8	169.8	173.4	199.9	211.3	210.6	212.8	218.5	219.9	224.2
65°	166.9	164.8	162.6	166.9	194.1	204.2	204.9	207.8	212.8	214.2	217.8
67.5°	159.0	159.8	155.5	159.8	189.1	197.0	197.0	202.7	204.9	207.8	211.3
70°	150.4	151.2	147.6	152.6	185.5	189.1	188.4	196.3	197.7	199.9	203.5
72.5°	139.7	139.7	138.3	145.4	179.8	181.2	179.8	186.3	187.0	189.1	190.6
75°	128.2	128.2	126.8	136.8	176.2	172.6	168.4	173.4	174.8	176.2	176.2
77.5°	113.2	114.6	114.6	126.8	164.1	169.1	154.7	157.6	159.8	160.5	158.3
80°	94.6	98.1	99.6	115.3	137.5	156.2	138.3	140.4	141.1	141.1	138.3
82.5°	72.4	78.8	82.4	99.6	105.3	131.1	120.4	122.5	120.4	116.1	114.6
85°	50.1	58.7	63.0	75.9	79.5	101.0	100.3	100.3	96.0	90.3	89.5
87.5°	27.2	32.2	35.1	45.1	54.4	68.1	73.8	71.6	68.1	64.5	65.2
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9
2.5°	3950.2	4047.6	4203.0	4322.0	4441.6	4556.9	4681.6	4776.9	4857.8	4889.3	4985.3
5°	3176.5	3298.2	3445.1	3710.2	3897.9	4104.9	4344.2	4660.8	4782.6	4950.9	5226.8
7.5°	2245.9	2356.2	2592.6	2806.8	3072.6	3365.6	3688.7	4125.7	4285.4	4555.5	5004.7
10°	1677.1	1805.3	1995.1	2175.7	2409.9	2709.4	3080.5	3569.0	3763.2	4056.2	4573.4
12.5°	1351.1	1502.3	1703.6	1873.4	2054.6	2265.9	2626.3	3162.1	3422.2	3678.6	4201.6
15°	1038.0	1196.4	1383.3	1599.0	1798.8	2026.7	2404.2	2990.2	3289.6	3556.9	4003.2
17.5°	718.5	853.9	1089.6	1314.6	1570.3	1861.9	2342.6	3026.7	3384.2	3692.3	4037.6
20°	509.4	586.7	780.1	1040.9	1359.7	1725.8	2331.1	3218.7	3683.7	4035.4	4258.2
22.5°	428.4	457.1	569.5	808.8	1177.0	1624.0	2371.2	3488.1	4087.7	4536.9	4609.9
25°	390.4	407.6	466.4	634.7	1014.4	1550.3	2506.6	3889.3	4587.7	5038.3	5025.5
27.5°	369.7	387.6	426.2	535.9	891.9	1504.4	2642.0	4364.9	5159.4	5582.8	5422.3
30°	363.2	387.6	428.4	505.1	804.5	1432.1	2753.1	4782.6	5599.3	5950.3	5602.9
32.5°	358.2	361.8	380.4	435.6	721.4	1347.5	2828.3	5157.3	6029.8	6299.9	5862.9
35°	289.4	307.3	337.4	390.4	672.7	1296.7	2828.3	5480.4	6453.9	6653.1	6110.8
37.5°	278.7	294.4	320.9	366.1	645.5	1271.6	2771.7	5792.0	6887.3	7053.5	6314.9
40°	272.9	285.8	310.9	347.4	634.0	1242.9	2689.3	6067.1	7310.7	7454.7	6505.5
42.5°	268.6	280.1	303.7	336.0	619.0	1211.4	2622.7	6287.7	7678.2	7797.2	6687.5
45°	266.5	278.7	304.5	341.7	588.9	1169.9	2600.5	6526.3	7980.5	8083.0	6884.5
47.5°	266.5	280.8	308.0	353.9	553.1	1126.9	2670.0	6840.8	8266.4	8316.5	7116.6
50°	264.3	280.1	318.1	341.7	500.8	1072.4	2833.3	7236.9	8575.9	8581.6	7410.3
52.5°	260.0	278.7	342.4	334.6	440.6	1000.8	3054.0	7745.6	9033.6	9068.0	7870.2
55°	255.0	276.5	336.0	318.1	391.1	915.5	3234.5	8363.8	9676.9	9772.2	8546.5
57.5°	248.6	273.7	325.2	295.2	358.9	805.9	3299.7	8816.6	10126.1	10365.4	9308.7
60°	242.9	271.5	293.7	281.5	338.9	713.5	3173.6	8727.0	10095.3	10611.1	9984.3
62.5°	237.1	273.7	267.9	272.9	329.5	654.1	2844.1	8009.9	9584.5	10357.5	10485.0
65°	230.7	254.3	252.9	265.8	327.4	630.4	2357.6	6934.6	8597.4	9555.9	10603.2
67.5°	222.1	235.0	242.1	256.5	334.6	609.6	1902.7	5720.3	7225.5	8354.5	9987.1
70°	212.8	223.5	231.4	245.0	330.3	600.3	1582.5	4511.1	5733.2	6847.2	8771.4
72.5°	200.6	209.9	217.1	230.0	326.0	595.3	1336.8	3632.8	4280.4	5086.3	7131.6
75°	186.3	194.9	199.9	212.8	312.3	545.2	1050.9	3074.0	3203.0	3538.2	5680.2
77.5°	169.8	176.2	180.5	194.9	276.5	453.5	760.1	2371.2	2487.3	2569.0	4354.9
80°	150.4	156.9	159.0	172.6	229.2	354.6	495.7	1751.6	1860.5	1879.1	2844.1
82.5°	128.2	134.7	134.7	147.6	187.7	255.0	325.2	1199.9	1221.4	1284.5	2010.2
85°	103.2	108.2	108.2	114.6	145.4	190.6	223.5	602.5	596.0	680.6	1741.5
87.5°	73.8	77.4	81.0	82.4	103.9	126.1	134.7	183.4	121.1	139.0	1118.3
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°	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9
2.5°	5057.7	5098.5	5057.0	5026.9	4897.2	4790.5	4647.9	4574.8
5°	5436.7	5540.5	5505.4	5379.3	5108.6	4804.1	4458.1	4301.9
7.5°	5390.8	5632.2	5638.0	5402.3	5003.2	4554.8	4086.3	3864.2
10°	5034.0	5342.8	5430.9	5202.4	4779.0	4277.5	3740.3	3486.7
12.5°	4635.7	4938.1	5005.4	4926.6	4572.7	4069.1	3523.9	3275.3
15°	4309.8	4445.2	4525.4	4594.2	4395.7	3986.0	3511.7	3238.8
17.5°	4111.3	4096.3	4119.2	4238.9	4272.5	4081.3	3698.0	3397.1
20°	4039.7	3809.7	3804.0	3968.8	4214.5	4308.3	4061.9	3700.9
22.5°	4079.1	3706.6	3659.3	3854.9	4245.3	4635.7	4539.0	4127.1
25°	4215.2	3715.2	3677.2	3866.3	4357.1	4984.6	5054.1	4678.7
27.5°	4429.4	3769.6	3719.5	3913.6	4505.4	5277.6	5561.3	5213.1
30°	4632.9	3864.2	3801.9	4006.7	4640.8	5393.7	5872.2	5630.1
32.5°	4880.0	4041.1	3931.5	4178.0	4808.4	5578.5	6149.5	5975.4
35°	5122.2	4293.3	4157.2	4442.3	4995.4	5808.5	6466.1	6416.7
37.5°	5387.9	4622.8	4510.4	4784.0	5251.1	6025.5	6870.1	6933.9
40°	5671.6	5059.8	4926.6	5282.6	5648.0	6297.8	7292.1	7445.4
42.5°	5957.5	5544.8	5385.8	5746.9	6084.3	6566.4	7653.2	7880.3
45°	6284.9	6071.4	5996.2	6386.6	6503.4	6822.1	7919.7	8201.9
47.5°	6666.0	6668.8	6789.9	6946.1	6926.0	7111.6	8187.6	8489.2
50°	7110.9	7414.6	7681.8	7785.7	7361.6	7422.5	8559.4	8873.9
52.5°	7645.3	8306.5	8637.5	8569.4	7830.8	7802.2	9148.3	9404.0
55°	8313.7	9250.7	9579.5	9530.8	8370.3	8319.4	9881.8	10030.8
57.5°	9087.4	10165.5	10467.8	10248.6	9017.9	8886.8	10488.6	10520.1
60°	9767.2	10890.5	11155.6	10912.7	9671.2	9490.7	10867.6	10715.0
62.5°	10145.5	11136.2	11322.5	11061.0	10119.0	10134.0	10950.7	10609.7
65°	9976.4	10515.1	10575.3	10553.8	10003.6	10507.2	10652.0	10123.3
67.5°	9050.8	8944.8	9045.8	9185.5	9015.0	10015.8	9824.5	9063.7
70°	7420.3	6837.9	7039.2	7133.1	7210.4	8618.8	8527.1	7382.4
72.5°	5592.1	4790.5	4949.5	4930.2	5288.4	6913.1	6631.6	5428.1
75°	3962.3	3248.1	3268.2	3260.3	3690.1	5408.7	4801.9	3713.7
77.5°	2772.4	2353.3	2364.1	2408.5	2480.8	4079.1	3430.8	2713.0
80°	1906.3	1786.0	1845.4	1849.0	1719.3	2740.2	2534.6	2177.1
82.5°	1419.9	1241.5	1227.2	1247.9	1347.5	2220.1	1947.9	1510.1
85°	1162.7	735.0	591.0	740.7	1194.2	2198.6	1293.8	796.6
87.5°	654.8	348.9	157.6	292.3	476.4	1455.7	374.0	101.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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