

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: P193853

Luminaire Tested: **GLEON-AF-05-LED-E1-SLR-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193853
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-05-LED-E1-SLR-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 14056 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 162
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

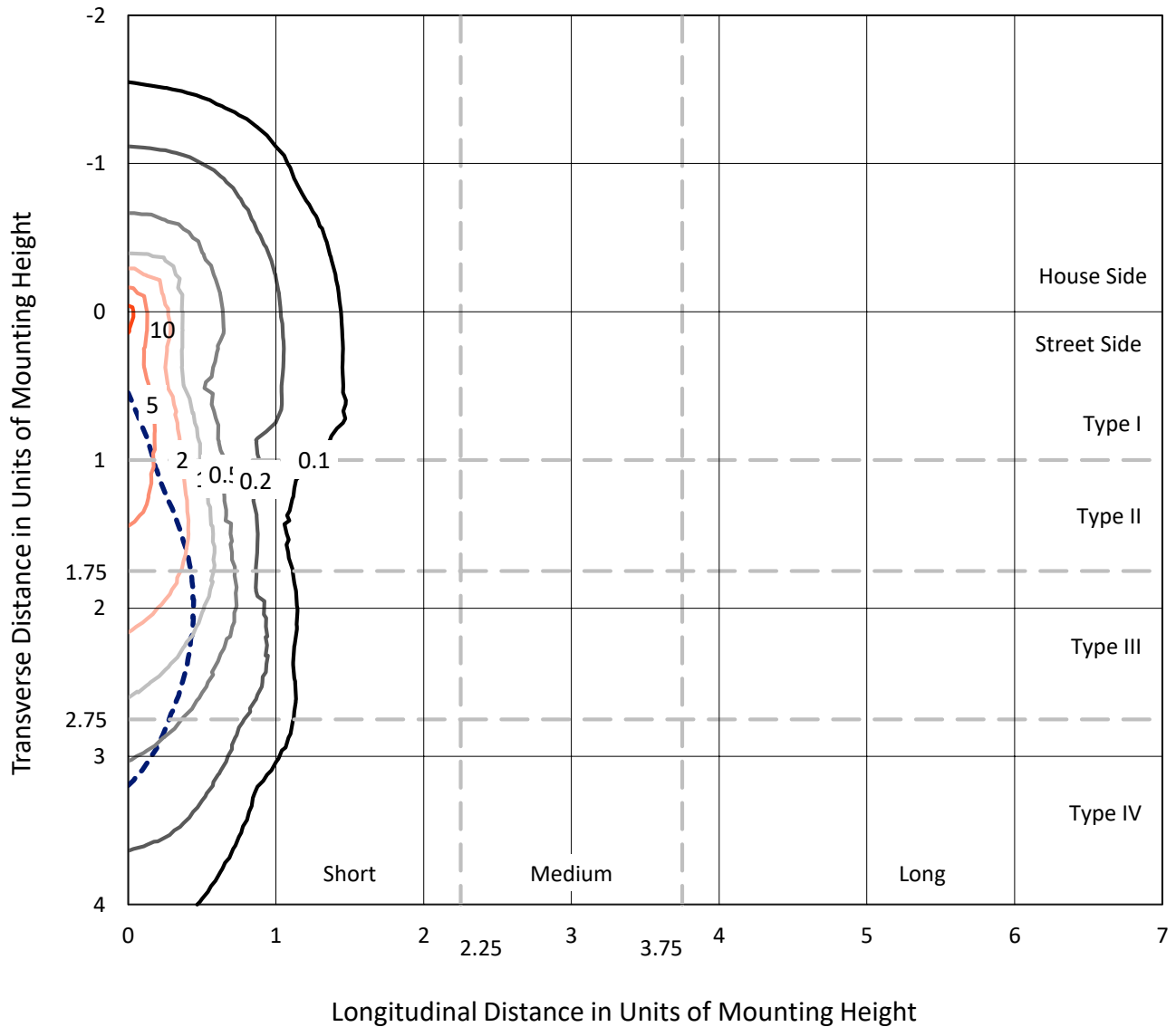


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Iso-Footcandle Lines of Horizontal Illumination

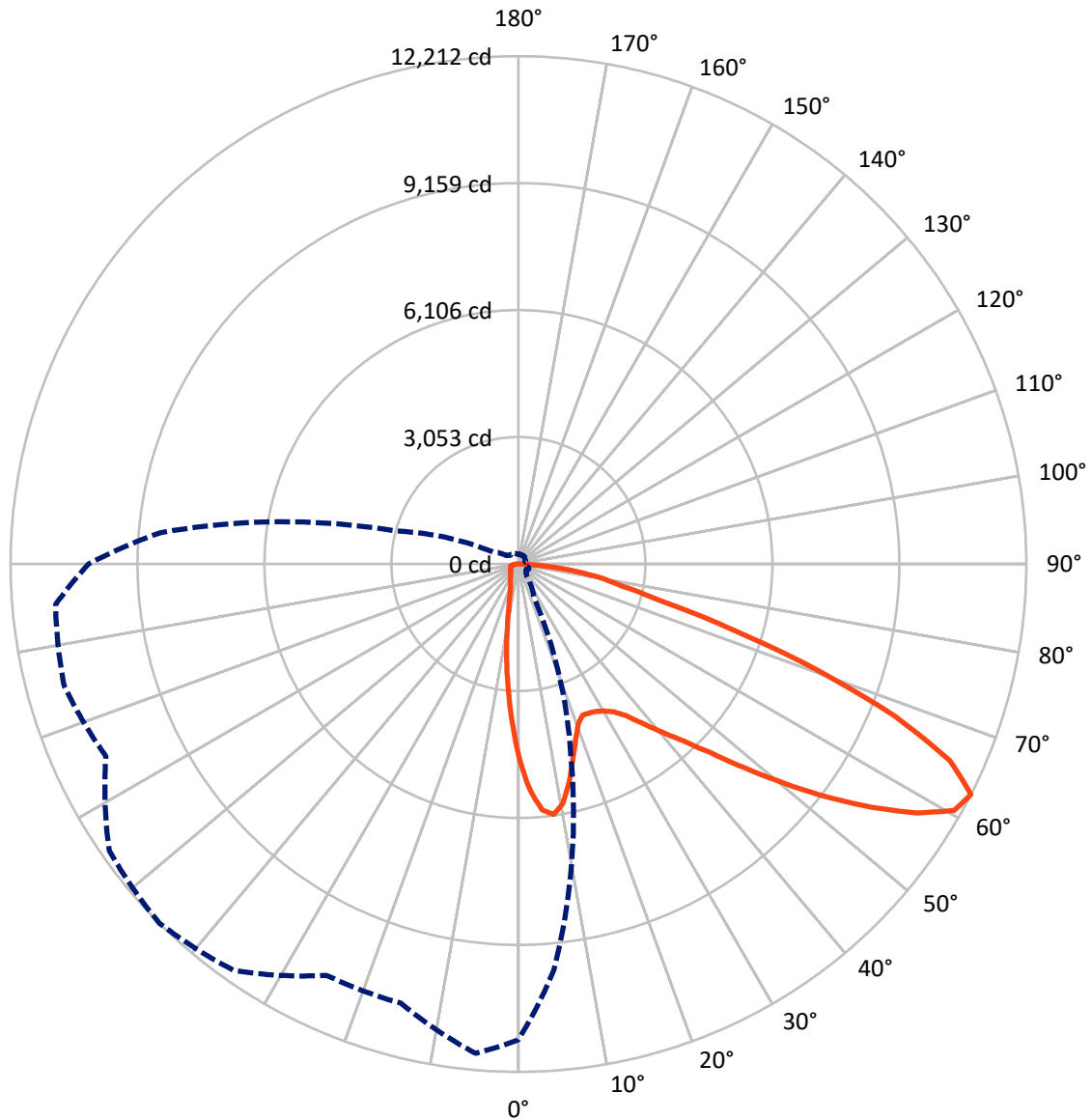
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.9 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	2326.1	0.0	2326.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	11729.9	0.0	11729.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	14056.0	0.0	14056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.7	2.5
10°-20°	633.9	4.5
20°-30°	924.2	6.6
30°-40°	1423.5	10.1
40°-50°	2095.0	14.9
50°-60°	3072.9	21.9
60°-70°	3435.0	24.4
70°-80°	1681.7	12.0
80°-90°	444.0	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°	14056.0	100.0
0°-180°	14056.0	100.0

Coefficient of Utilization



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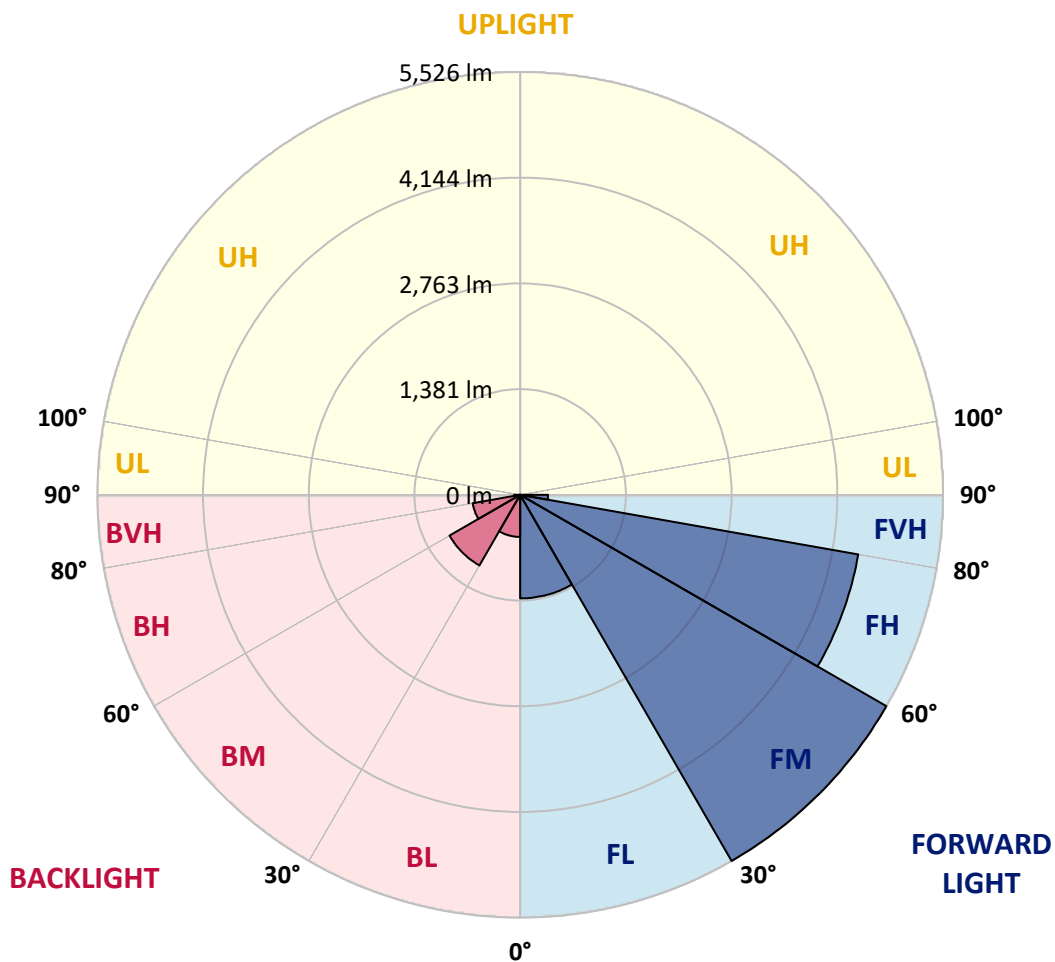
CATALOG NUMBER: GLEON-AF-05-LED-E1-SLR-8030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1353.5	9.6			
FM (30°-60°)	5525.5	39.3			
FH (60°-80°)	4486.2	31.9			G2/5000
FVH (80°-90°)	364.6	2.6			G3/500
BL (0°-30°)	550.3	3.9	B2/1000		
BM (30°-60°)	1065.8	7.6	B2/2500		
BH (60°-80°)	630.6	4.5	B2/1000		G2/1000
BVH (80°-90°)	79.4	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4748.9	4748.9	4748.9	4748.9	4748.9	4748.9	4748.9	4748.9	4748.9	4748.9	4748.9
2.5°	4934.3	4833.9	4667.0	4493.1	4387.3	4263.6	4167.0	4082.1	3912.1	3878.8	3909.0
5°	4639.9	4438.3	4123.8	3807.0	3596.0	3369.6	3193.5	3052.1	2836.5	2798.6	2844.2
7.5°	4167.8	3926.7	3511.0	3106.9	2808.7	2525.9	2335.8	2184.4	2015.9	1943.3	1947.9
10°	3760.6	3488.6	2997.2	2557.6	2313.4	2122.5	1962.6	1807.3	1636.5	1524.5	1493.6
12.5°	3532.7	3219.7	2653.4	2260.9	2034.5	1833.6	1661.3	1495.1	1312.8	1198.4	1166.0
15°	3493.3	3153.3	2524.3	2070.8	1787.2	1533.0	1329.8	1144.3	956.6	863.9	844.5
17.5°	3664.0	3272.3	2482.6	1901.6	1554.6	1240.9	991.3	784.3	631.3	584.9	581.1
20°	3991.7	3501.0	2477.2	1742.4	1325.1	957.3	690.8	540.1	472.9	459.7	460.5
22.5°	4451.4	3855.7	2543.7	1622.6	1114.2	714.0	519.2	452.0	425.7	413.4	413.4
25°	5046.4	4344.0	2696.6	1535.3	931.1	570.2	458.2	418.0	393.3	384.8	386.3
27.5°	5622.8	4819.2	2874.4	1466.5	811.3	517.7	434.2	397.9	376.3	367.8	371.7
30°	6072.5	5241.1	3022.7	1373.0	750.3	503.0	442.7	405.7	374.7	361.6	362.4
32.5°	6444.9	5610.4	3147.1	1305.8	696.2	431.2	381.7	365.5	361.6	346.2	338.4
35°	6920.9	6013.0	3230.6	1307.4	670.7	384.8	340.0	311.4	290.5	272.8	272.8
37.5°	7478.7	6475.0	3319.4	1325.1	661.4	357.7	325.3	296.7	277.4	260.4	257.3
40°	8030.4	6927.8	3400.6	1342.1	656.0	341.5	313.7	287.4	269.7	252.7	248.0
42.5°	8499.4	7300.3	3473.2	1350.6	637.5	340.0	305.2	281.3	264.3	245.7	241.1
45°	8846.4	7612.4	3551.2	1363.8	618.9	346.2	305.2	280.5	259.6	241.8	237.2
47.5°	9156.2	7978.7	3681.8	1363.8	596.5	334.6	315.3	281.3	258.8	240.3	236.4
50°	9571.2	8480.9	3929.1	1332.1	564.8	322.2	332.3	278.2	251.9	237.2	232.6
52.5°	10142.9	9124.5	4321.6	1277.2	516.1	298.3	329.9	276.6	244.9	229.5	224.1
55°	10819.0	9813.8	4749.6	1213.1	443.5	281.3	318.3	272.8	237.2	220.2	214.8
57.5°	11346.8	10288.2	5051.0	1114.2	380.2	272.0	282.0	268.9	227.9	210.2	205.5
60°	11556.9	10269.7	5133.7	982.1	349.3	264.3	246.5	301.3	220.2	202.4	197.0
62.5°	11443.3	9795.2	4901.9	889.4	342.3	254.2	231.0	278.9	214.0	197.0	189.3
65°	10918.7	8954.6	4287.6	864.6	362.4	244.2	221.0	218.7	205.5	189.3	181.6
67.5°	9775.9	7698.2	3433.0	866.9	387.9	234.1	210.9	200.1	193.9	180.8	173.9
70°	7962.4	6086.4	2559.1	873.1	401.0	222.5	200.1	188.5	181.6	168.4	163.8
72.5°	5854.6	4690.9	1859.1	832.9	403.3	209.4	185.4	175.4	168.4	154.5	150.7
75°	4005.6	3588.3	1289.6	690.0	351.6	190.9	169.2	159.9	155.3	138.3	136.0
77.5°	2926.1	2693.6	825.2	512.3	271.2	167.7	149.1	142.2	139.1	120.5	117.4
80°	2348.2	2131.0	516.1	350.8	198.6	140.6	125.2	121.3	118.2	99.7	97.4
82.5°	1628.8	1427.1	331.5	227.9	149.1	108.9	98.9	97.4	92.7	75.7	73.4
85°	859.2	775.0	210.2	155.3	108.2	74.9	68.8	68.8	66.5	50.2	48.7
87.5°	109.7	178.5	106.6	81.1	59.5	33.2	33.2	32.5	34.8	28.6	24.7
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°	4748.9	4748.9	4748.9	4748.9	4748.9	4748.9	4748.9	4748.9	4748.9	4748.9	4748.9
2.5°	3837.9	3875.0	3839.4	3841.8	3881.2	3998.6	4051.9	4096.0	4143.1	4174.0	4187.9
5°	2781.6	2868.2	2897.5	2959.4	3050.5	3200.4	3259.9	3303.2	3331.8	3348.8	3355.7
7.5°	1902.3	1954.9	2013.6	2113.3	2311.9	2399.9	2439.3	2429.3	2396.8	2385.3	2373.7
10°	1434.1	1413.2	1402.4	1457.3	1618.0	1706.8	1734.7	1707.6	1689.8	1693.7	1713.0
12.5°	1111.1	1074.8	1030.8	1024.6	1130.4	1210.0	1227.8	1229.3	1261.8	1290.4	1332.9
15°	809.8	805.9	784.3	771.1	831.4	896.3	904.0	917.9	947.3	968.2	1005.3
17.5°	571.0	591.9	608.9	617.4	663.0	709.3	700.8	693.9	688.5	688.5	706.2
20°	460.5	474.4	496.1	520.8	567.1	599.6	578.7	550.9	530.8	524.6	527.0
22.5°	414.9	425.7	438.1	459.7	501.5	523.9	501.5	481.4	461.3	454.3	452.0
25°	391.7	405.7	417.2	433.5	464.4	479.8	458.2	443.5	431.2	422.7	416.5
27.5°	378.6	391.0	394.1	401.8	428.1	442.0	431.2	425.0	417.2	409.5	401.8
30°	364.7	362.4	357.0	357.7	378.6	392.5	391.7	393.3	392.5	390.2	388.7
32.5°	333.0	328.4	323.8	328.4	347.7	360.1	360.8	363.9	363.9	363.2	369.3
35°	277.4	285.9	291.3	305.2	328.4	339.2	334.6	326.8	312.9	304.4	303.7
37.5°	256.5	258.1	267.3	286.7	312.2	322.2	315.3	297.5	288.2	286.7	289.0
40°	246.5	248.0	253.4	271.2	296.7	306.8	300.6	287.4	278.9	278.2	282.0
42.5°	239.5	241.1	244.2	256.5	277.4	289.8	290.5	281.3	271.2	272.0	275.8
45°	235.7	236.4	235.7	241.8	261.2	275.8	282.0	275.8	267.3	268.9	273.5
47.5°	234.9	232.6	229.5	231.0	251.1	265.8	273.5	271.2	267.3	268.9	272.8
50°	231.8	226.4	222.5	221.8	241.8	257.3	264.3	264.3	265.8	268.9	272.8
52.5°	222.5	216.3	216.3	214.0	235.7	250.3	255.0	255.8	258.1	263.5	268.9
55°	210.9	208.6	210.9	207.1	231.0	244.9	247.3	248.8	250.3	255.0	262.7
57.5°	200.9	197.8	203.2	201.7	227.2	239.5	239.5	242.6	242.6	248.8	255.0
60°	195.5	189.3	191.6	193.2	221.8	234.9	233.3	236.4	238.0	243.4	248.0
62.5°	188.5	183.1	183.1	187.0	215.6	227.9	227.2	229.5	235.7	237.2	241.8
65°	180.0	177.7	175.4	180.0	209.4	220.2	221.0	224.1	229.5	231.0	234.9
67.5°	171.5	172.3	167.7	172.3	204.0	212.5	212.5	218.7	221.0	224.1	227.9
70°	162.3	163.0	159.2	164.6	200.1	204.0	203.2	211.7	213.3	215.6	219.4
72.5°	150.7	150.7	149.1	156.9	193.9	195.5	193.9	200.9	201.7	204.0	205.5
75°	138.3	138.3	136.8	147.6	190.1	186.2	181.6	187.0	188.5	190.1	190.1
77.5°	122.1	123.6	123.6	136.8	176.9	182.4	166.9	170.0	172.3	173.1	170.8
80°	102.0	105.9	107.4	124.4	148.4	168.4	149.1	151.4	152.2	152.2	149.1
82.5°	78.0	85.0	88.9	107.4	113.6	141.4	129.8	132.1	129.8	125.2	123.6
85°	54.1	63.4	68.0	81.9	85.8	108.9	108.2	108.2	103.5	97.4	96.6
87.5°	29.4	34.8	37.9	48.7	58.7	73.4	79.6	77.3	73.4	69.5	70.3
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	4748.9	4748.9	4748.9	4748.9	4748.9	4748.9	4748.9	4748.9	4748.9	4748.9	4748.9
2.5°	4260.5	4365.6	4533.3	4661.6	4790.6	4915.0	5049.4	5152.2	5239.5	5273.5	5377.1
5°	3426.1	3557.4	3715.8	4001.7	4204.1	4427.4	4685.5	5027.0	5158.4	5340.0	5637.5
7.5°	2422.3	2541.3	2796.3	3027.3	3314.0	3630.0	3978.5	4449.8	4622.2	4913.5	5397.9
10°	1808.8	1947.1	2151.9	2346.6	2599.3	2922.3	3322.5	3849.5	4058.9	4374.9	4932.8
12.5°	1457.3	1620.3	1837.4	2020.6	2216.0	2444.0	2832.6	3410.6	3691.1	3967.7	4531.8
15°	1119.6	1290.4	1492.0	1724.6	1940.2	2185.9	2593.1	3225.2	3548.1	3836.3	4317.7
17.5°	775.0	921.0	1175.2	1417.9	1693.7	2008.2	2526.7	3264.6	3650.1	3982.4	4354.8
20°	549.4	632.8	841.4	1122.7	1466.5	1861.4	2514.3	3471.6	3973.1	4352.5	4592.8
22.5°	462.1	493.0	614.3	872.4	1269.5	1751.7	2557.6	3762.2	4408.9	4893.4	4972.2
25°	421.1	439.7	503.0	684.6	1094.1	1672.1	2703.6	4194.9	4948.2	5434.2	5420.3
27.5°	398.7	418.0	459.7	578.0	962.0	1622.6	2849.6	4707.9	5564.8	6021.5	5848.4
30°	391.7	418.0	462.1	544.7	867.7	1544.6	2969.4	5158.4	6039.2	6417.9	6043.1
32.5°	386.3	390.2	410.3	469.8	778.1	1453.4	3050.5	5562.5	6503.6	6794.9	6323.6
35°	312.2	331.5	363.9	421.1	725.5	1398.5	3050.5	5911.0	6961.0	7175.9	6590.9
37.5°	300.6	317.6	346.2	394.8	696.2	1371.5	2989.5	6247.1	7428.5	7607.8	6811.1
40°	294.4	308.3	335.3	374.7	683.8	1340.6	2900.6	6543.8	7885.2	8040.5	7016.7
42.5°	289.8	302.1	327.6	362.4	667.6	1306.6	2828.8	6781.8	8281.6	8409.8	7212.9
45°	287.4	300.6	328.4	368.6	635.1	1261.8	2804.8	7039.1	8607.6	8718.1	7425.4
47.5°	287.4	302.9	332.3	381.7	596.5	1215.4	2879.8	7378.3	8915.9	8970.0	7675.8
50°	285.1	302.1	343.1	368.6	540.1	1156.7	3055.9	7805.6	9249.7	9255.9	7992.6
52.5°	280.5	300.6	369.3	360.8	475.2	1079.4	3293.9	8354.2	9743.5	9780.5	8488.6
55°	275.1	298.3	362.4	343.1	421.9	987.5	3488.6	9021.0	10437.3	10540.1	9218.0
57.5°	268.1	295.2	350.8	318.3	387.1	869.3	3559.0	9509.3	10921.8	11179.9	10040.2
60°	261.9	292.8	316.8	303.7	365.5	769.6	3423.0	9412.8	10888.6	11444.9	10768.8
62.5°	255.8	295.2	289.0	294.4	355.4	705.5	3067.5	8639.3	10337.6	11171.4	11308.9
65°	248.8	274.3	272.8	286.7	353.1	680.0	2542.9	7479.5	9272.9	10306.7	11436.4
67.5°	239.5	253.4	261.2	276.6	360.8	657.5	2052.2	6169.8	7793.2	9011.0	10771.9
70°	229.5	241.1	249.6	264.3	356.2	647.5	1706.8	4865.5	6183.7	7385.2	9460.7
72.5°	216.3	226.4	234.1	248.0	351.6	642.1	1441.8	3918.2	4616.7	5486.0	7692.0
75°	200.9	210.2	215.6	229.5	336.9	588.0	1133.5	3315.6	3454.6	3816.3	6126.6
77.5°	183.1	190.1	194.7	210.2	298.3	489.1	819.8	2557.6	2682.7	2770.8	4697.1
80°	162.3	169.2	171.5	186.2	247.3	382.5	534.7	1889.2	2006.6	2026.7	3067.5
82.5°	138.3	145.3	145.3	159.2	202.4	275.1	350.8	1294.2	1317.4	1385.4	2168.1
85°	111.3	116.7	116.7	123.6	156.9	205.5	241.1	649.8	642.9	734.0	1878.4
87.5°	79.6	83.4	87.3	88.9	112.0	136.0	145.3	197.8	130.6	149.9	1206.1
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°	4748.9	4748.9	4748.9	4748.9	4748.9	4748.9	4748.9	4748.9
2.5°	5455.1	5499.1	5454.3	5421.9	5282.0	5166.9	5013.1	4934.3
5°	5863.8	5975.9	5938.0	5802.0	5510.0	5181.6	4808.4	4639.9
7.5°	5814.4	6074.8	6081.0	5826.8	5396.4	4912.7	4407.4	4167.8
10°	5429.6	5762.6	5857.7	5611.2	5154.5	4613.7	4034.1	3760.6
12.5°	5000.0	5326.1	5398.7	5313.7	4932.0	4388.8	3800.8	3532.7
15°	4648.4	4794.5	4881.0	4955.2	4741.1	4299.2	3787.7	3493.3
17.5°	4434.4	4418.2	4442.9	4571.9	4608.2	4401.9	3988.6	3664.0
20°	4357.1	4109.1	4102.9	4280.6	4545.7	4646.9	4381.1	3991.7
22.5°	4399.6	3997.8	3946.8	4157.8	4578.9	5000.0	4895.7	4451.4
25°	4546.4	4007.1	3966.2	4170.1	4699.4	5376.3	5451.2	5046.4
27.5°	4777.5	4065.8	4011.7	4221.1	4859.4	5692.3	5998.3	5622.8
30°	4996.9	4167.8	4100.6	4321.6	5005.4	5817.5	6333.6	6072.5
32.5°	5263.5	4358.7	4240.5	4506.3	5186.2	6016.8	6632.7	6444.9
35°	5524.6	4630.7	4483.8	4791.4	5387.9	6264.9	6974.2	6920.9
37.5°	5811.3	4986.1	4864.8	5159.9	5663.7	6499.0	7410.0	7478.7
40°	6117.3	5457.4	5313.7	5697.7	6091.8	6792.6	7865.1	8030.4
42.5°	6425.6	5980.5	5809.0	6198.4	6562.3	7082.4	8254.5	8499.4
45°	6778.7	6548.4	6467.3	6888.4	7014.4	7358.2	8541.9	8846.4
47.5°	7189.8	7192.9	7323.4	7491.9	7470.2	7670.4	8830.9	9156.2
50°	7669.6	7997.2	8285.4	8397.5	7940.0	8005.7	9231.9	9571.2
52.5°	8246.0	8959.2	9316.2	9242.8	8446.1	8415.2	9867.1	10142.9
55°	8966.9	9977.6	10332.2	10279.7	9028.0	8973.1	10658.3	10819.0
57.5°	9801.4	10964.3	11290.4	11053.9	9726.5	9585.1	11312.8	11346.8
60°	10534.7	11746.2	12032.1	11770.2	10431.1	10236.4	11721.5	11556.9
62.5°	10942.7	12011.3	12212.2	11930.1	10914.1	10930.3	11811.1	11443.3
65°	10760.3	11341.4	11406.3	11383.1	10789.7	11332.9	11488.9	10918.7
67.5°	9762.0	9647.6	9756.6	9907.3	9723.4	10802.8	10596.5	9775.9
70°	8003.4	7375.2	7592.3	7693.5	7777.0	9296.1	9197.2	7962.4
72.5°	6031.5	5166.9	5338.4	5317.6	5703.9	7456.3	7152.7	5854.6
75°	4273.7	3503.3	3525.0	3516.5	3980.1	5833.7	5179.3	4005.6
77.5°	2990.3	2538.2	2549.8	2597.7	2675.8	4399.6	3700.4	2926.1
80°	2056.1	1926.3	1990.4	1994.3	1854.4	2955.5	2733.7	2348.2
82.5°	1531.4	1339.0	1323.6	1346.0	1453.4	2394.5	2100.9	1628.8
85°	1254.1	792.8	637.5	798.9	1288.1	2371.3	1395.5	859.2
87.5°	706.2	376.3	170.0	315.3	513.8	1570.1	403.3	109.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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