

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: P269255

Luminaire Tested: **GLEON-AF-04-LED-E1-SLR-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269255
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-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA 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: 14812.5 lumens
Efficiency: N/A
Efficacy: 86.6 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

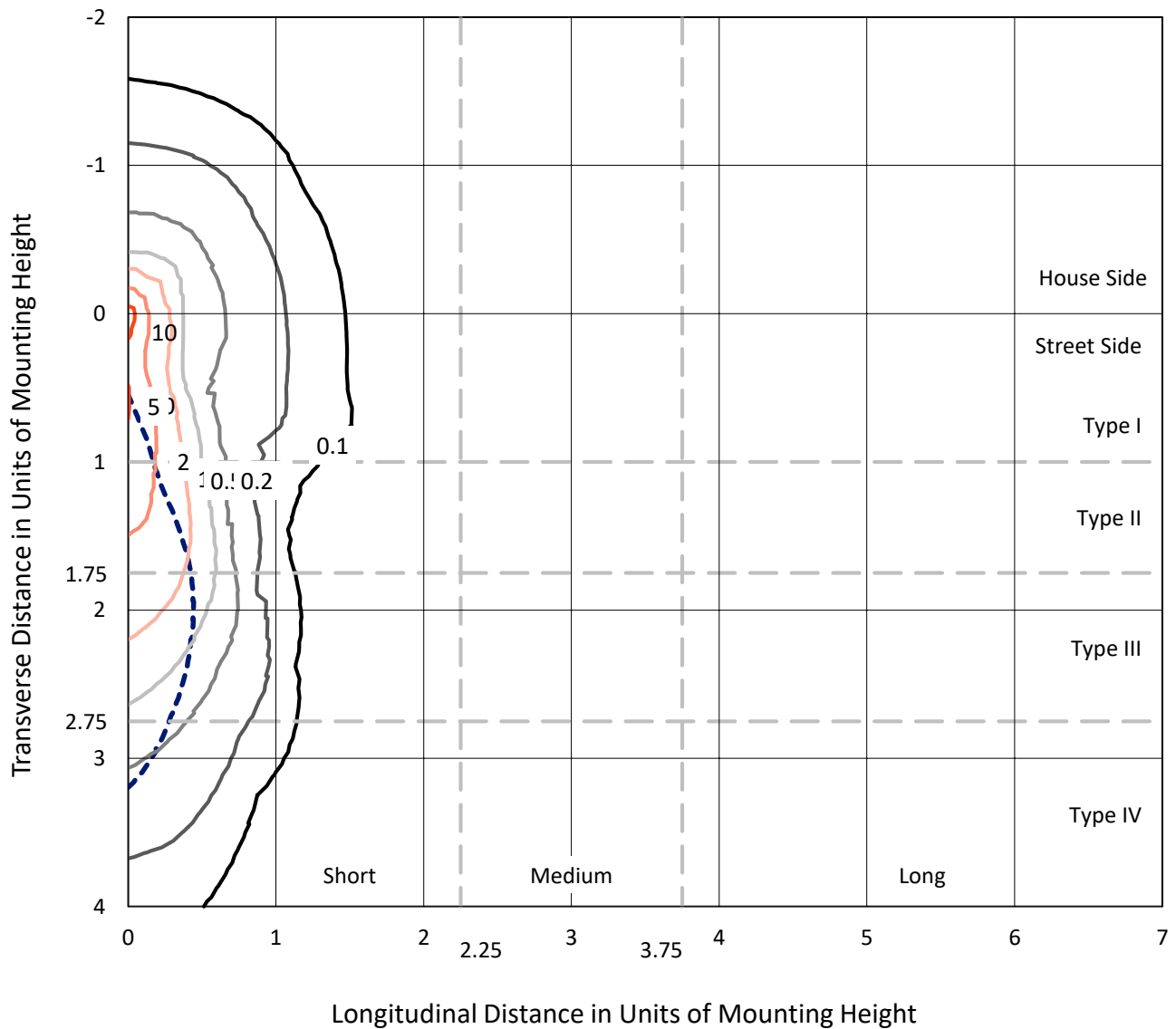
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

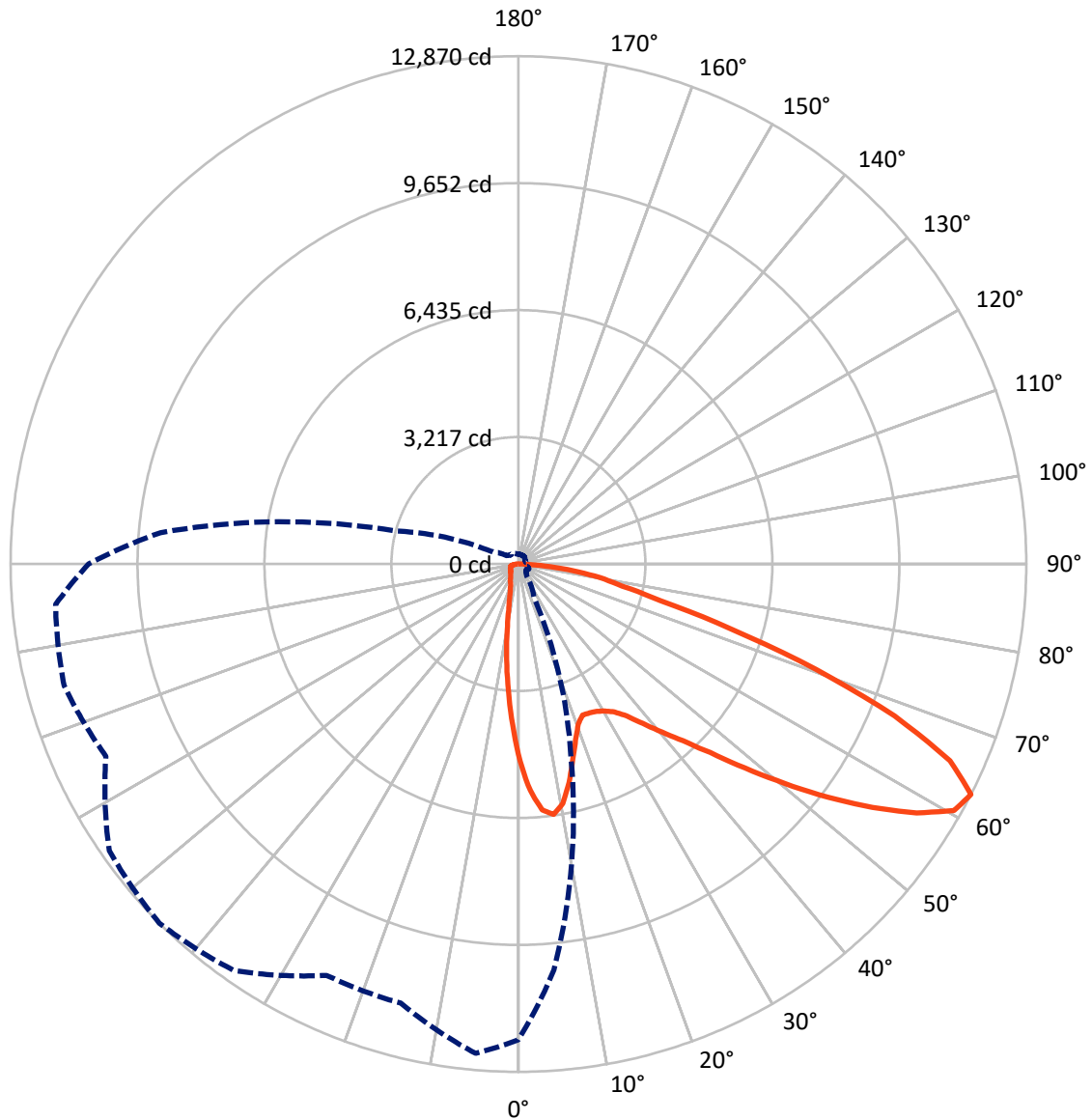
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.5 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	2451.3	0.0	2451.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	12361.3	0.0	12361.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	14812.5	0.0	14812.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.3	2.5
10°-20°	668.0	4.5
20°-30°	974.0	6.6
30°-40°	1500.1	10.1
40°-50°	2207.7	14.9
50°-60°	3238.3	21.9
60°-70°	3619.9	24.4
70°-80°	1772.3	12.0
80°-90°	467.9	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°	14812.5	100.0
0°-180°	14812.5	100.0

Coefficient of Utilization



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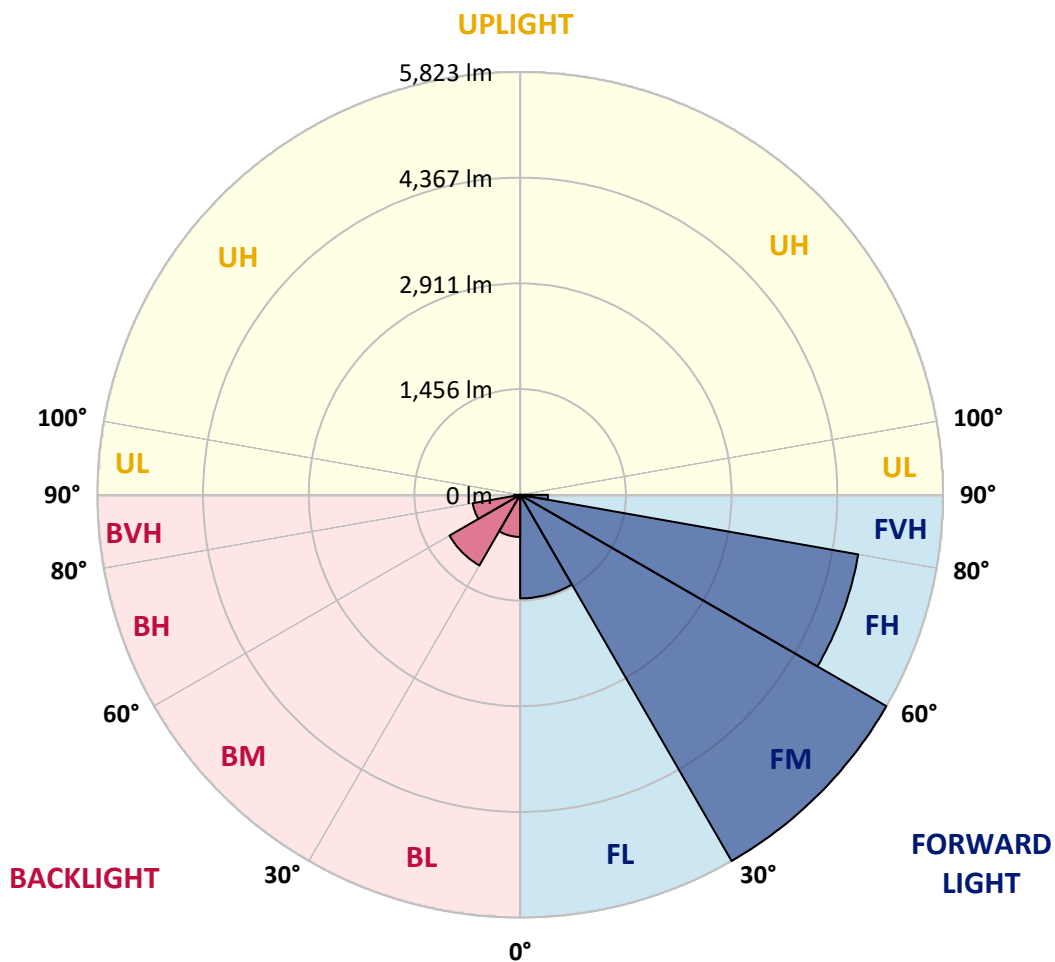
CATALOG NUMBER: GLEON-AF-04-LED-E1-SLR-7027-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1426.4	9.6			
FM (30°-60°)	5822.9	39.3			
FH (60°-80°)	4727.6	31.9			G2/5000
FVH (80°-90°)	384.3	2.6			G3/500
BL (0°-30°)	579.9	3.9	B2/1000		
BM (30°-60°)	1123.2	7.6	B2/2500		
BH (60°-80°)	664.5	4.5	B2/1000		G2/1000
BVH (80°-90°)	83.6	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°	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5
2.5°	5199.8	5094.0	4918.2	4735.0	4623.3	4493.1	4391.4	4301.8	4122.6	4087.6	4119.4
5°	4889.7	4677.1	4345.7	4011.9	3789.6	3551.0	3365.4	3216.3	2989.2	2949.2	2997.4
7.5°	4392.2	4138.1	3699.9	3274.1	2959.8	2661.9	2461.5	2301.9	2124.4	2047.9	2052.7
10°	3963.1	3676.5	3158.5	2695.3	2437.9	2236.8	2068.3	1904.5	1724.7	1606.6	1574.0
12.5°	3722.8	3393.1	2796.2	2382.6	2144.0	1932.3	1750.6	1575.5	1383.4	1262.9	1228.7
15°	3681.3	3323.0	2660.2	2182.3	1883.3	1615.5	1401.4	1206.0	1008.1	910.3	890.0
17.5°	3861.3	3448.5	2616.3	2003.8	1638.2	1307.8	1044.6	826.5	665.3	616.3	612.4
20°	4206.6	3689.3	2610.6	1836.1	1396.4	1008.8	727.9	569.2	498.3	484.5	485.4
22.5°	4690.9	4063.2	2680.5	1710.0	1174.2	752.4	547.2	476.3	448.7	435.7	435.7
25°	5318.0	4577.9	2841.8	1617.9	981.2	601.0	482.8	440.4	414.5	405.6	407.1
27.5°	5925.4	5078.6	3029.1	1545.4	854.9	545.6	457.6	419.4	396.5	387.6	391.8
30°	6399.3	5523.1	3185.4	1446.9	790.7	530.1	466.6	427.6	395.0	381.2	381.9
32.5°	6791.7	5912.4	3316.5	1376.2	733.6	454.4	402.3	385.2	381.2	364.8	356.6
35°	7293.3	6336.6	3404.4	1377.7	706.7	405.6	358.2	328.2	306.1	287.5	287.5
37.5°	7881.3	6823.5	3498.1	1396.4	697.1	377.0	342.9	312.7	292.3	274.4	271.2
40°	8462.7	7300.6	3583.6	1414.4	691.3	360.0	330.5	302.9	284.1	266.3	261.3
42.5°	8956.9	7693.2	3660.1	1423.4	671.8	358.2	321.7	296.4	278.5	258.9	254.0
45°	9322.5	8022.1	3742.3	1437.2	652.2	364.8	321.7	295.6	273.7	254.8	250.0
47.5°	9649.1	8408.0	3880.0	1437.2	628.6	352.6	332.3	296.4	272.7	253.2	249.2
50°	10086.3	8937.3	4140.6	1403.8	595.2	339.6	350.1	293.1	265.4	250.0	245.1
52.5°	10688.8	9615.6	4554.1	1346.0	544.0	314.2	347.7	291.5	258.2	241.9	236.2
55°	11401.3	10341.9	5005.3	1278.4	467.4	296.4	335.4	287.5	250.0	232.0	226.4
57.5°	11957.5	10842.0	5322.8	1174.2	400.6	286.6	297.2	283.3	240.1	221.5	216.6
60°	12179.0	10822.4	5410.0	1034.9	368.0	278.5	259.8	317.6	232.0	213.3	207.7
62.5°	12059.2	10322.5	5165.8	937.2	360.7	267.9	243.5	293.9	225.6	207.7	199.6
65°	11506.4	9436.5	4518.4	911.2	381.9	257.4	232.9	230.4	216.6	199.6	191.3
67.5°	10302.0	8112.6	3617.7	913.5	408.8	246.8	222.3	210.9	204.4	190.5	183.3
70°	8391.0	6414.0	2696.8	920.1	422.7	234.5	210.9	198.6	191.3	177.5	172.7
72.5°	6169.6	4943.5	1959.2	877.7	425.1	220.7	195.4	184.8	177.5	162.9	158.8
75°	4221.1	3781.4	1359.0	727.2	370.6	201.1	178.4	168.5	163.8	145.7	143.3
77.5°	3083.6	2838.6	869.6	539.8	285.8	176.6	157.2	149.8	146.6	127.0	123.7
80°	2474.6	2245.8	544.0	369.7	209.2	148.2	132.0	127.9	124.5	105.0	102.5
82.5°	1716.5	1503.9	349.4	240.1	157.2	114.9	104.3	102.5	97.7	79.8	77.3
85°	905.4	816.6	221.5	163.8	113.9	79.1	72.5	72.5	70.0	52.9	51.4
87.5°	115.6	188.0	112.4	85.5	62.7	35.0	35.0	34.1	36.7	30.2	26.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5
2.5°	4044.4	4083.5	4046.1	4048.5	4090.1	4213.8	4270.1	4316.4	4366.1	4398.6	4413.4
5°	2931.3	3022.5	3053.5	3118.6	3214.8	3372.6	3435.4	3481.0	3511.1	3529.0	3536.4
7.5°	2004.7	2060.2	2121.9	2227.0	2436.3	2529.1	2570.6	2560.0	2525.9	2513.6	2501.4
10°	1511.3	1489.3	1477.9	1535.7	1705.1	1798.6	1828.1	1799.6	1780.8	1784.8	1805.2
12.5°	1170.9	1132.7	1086.2	1079.8	1191.2	1275.1	1293.9	1295.4	1329.8	1359.9	1404.6
15°	853.3	849.3	826.5	812.6	876.1	944.6	952.7	967.4	998.2	1020.3	1059.3
17.5°	601.8	623.8	641.6	650.6	698.6	747.5	738.5	731.2	725.6	725.6	744.2
20°	485.4	499.9	522.8	548.9	597.6	631.9	609.9	580.6	559.5	552.8	555.3
22.5°	437.2	448.7	461.6	484.5	528.5	552.1	528.5	507.4	486.2	478.7	476.3
25°	412.9	427.6	439.7	456.8	489.3	505.7	482.8	467.4	454.4	445.4	438.9
27.5°	398.9	412.1	415.2	423.5	451.0	465.7	454.4	447.9	439.7	431.5	423.5
30°	384.4	381.9	376.2	377.0	398.9	413.7	412.9	414.5	413.7	411.2	409.5
32.5°	351.0	346.0	341.1	346.0	366.4	379.4	380.3	383.5	383.5	382.7	389.2
35°	292.3	301.3	307.0	321.7	346.0	357.4	352.6	344.4	329.8	320.9	319.9
37.5°	270.3	271.9	281.8	302.1	329.0	339.6	332.3	313.5	303.7	302.1	304.5
40°	259.8	261.3	267.1	285.8	312.7	323.3	316.7	302.9	293.9	293.1	297.2
42.5°	252.5	254.0	257.4	270.3	292.3	305.3	306.1	296.4	285.8	286.6	290.7
45°	248.3	249.2	248.3	254.8	275.2	290.7	297.2	290.7	281.8	283.3	288.3
47.5°	247.6	245.1	241.9	243.5	264.6	280.1	288.3	285.8	281.8	283.3	287.5
50°	244.2	238.6	234.5	233.6	254.8	271.2	278.5	278.5	280.1	283.3	287.5
52.5°	234.5	228.0	228.0	225.6	248.3	263.8	268.8	269.5	271.9	277.7	283.3
55°	222.3	219.8	222.3	218.2	243.5	258.2	260.6	262.1	263.8	268.8	276.9
57.5°	211.7	208.4	214.2	212.4	239.4	252.5	252.5	255.7	255.7	262.1	268.8
60°	206.0	199.6	201.8	203.6	233.6	247.6	245.9	249.2	250.7	256.5	261.3
62.5°	198.6	193.0	193.0	197.1	227.2	240.1	239.4	241.9	248.3	250.0	254.8
65°	189.7	187.2	184.8	189.7	220.7	232.0	232.9	236.2	241.9	243.5	247.6
67.5°	180.7	181.5	176.6	181.5	215.0	223.9	223.9	230.4	232.9	236.2	240.1
70°	170.9	171.8	167.8	173.5	210.9	215.0	214.2	223.0	224.8	227.2	231.3
72.5°	158.8	158.8	157.2	165.3	204.4	206.0	204.4	211.7	212.4	215.0	216.6
75°	145.7	145.7	144.1	155.5	200.3	196.2	191.3	197.1	198.6	200.3	200.3
77.5°	128.6	130.3	130.3	144.1	186.5	192.1	175.9	179.1	181.5	182.4	179.9
80°	107.4	111.6	113.1	131.2	156.3	177.5	157.2	159.5	160.3	160.3	157.2
82.5°	82.3	89.7	93.7	113.1	119.7	148.9	136.8	139.2	136.8	132.0	130.3
85°	57.0	66.7	71.7	86.2	90.4	114.9	113.9	113.9	109.1	102.5	101.8
87.5°	30.9	36.7	40.0	51.4	62.0	77.3	83.9	81.4	77.3	73.3	74.1
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5
2.5°	4489.9	4600.6	4777.2	4912.4	5048.5	5179.5	5321.2	5429.5	5521.5	5557.4	5666.5
5°	3610.5	3748.8	3915.8	4217.1	4430.4	4665.7	4937.8	5297.7	5436.1	5627.4	5940.9
7.5°	2552.8	2678.0	2946.8	3190.3	3492.4	3825.4	4192.7	4689.3	4870.9	5177.9	5688.4
10°	1906.3	2052.0	2267.7	2472.9	2739.2	3079.6	3501.4	4056.7	4277.3	4610.5	5198.2
12.5°	1535.7	1707.5	1936.3	2129.3	2335.4	2575.5	2985.1	3594.2	3889.8	4181.3	4775.7
15°	1179.8	1359.9	1572.4	1817.5	2044.6	2303.6	2732.6	3398.7	3739.0	4042.8	4550.2
17.5°	816.6	970.6	1238.6	1494.2	1784.8	2116.2	2662.7	3440.2	3846.6	4196.7	4589.3
20°	579.0	666.9	886.7	1183.1	1545.4	1961.5	2649.6	3658.4	4186.9	4586.7	4840.0
22.5°	486.9	519.5	647.4	919.2	1337.8	1845.9	2695.3	3964.7	4646.3	5156.7	5239.9
25°	443.8	463.3	530.1	721.3	1153.1	1762.0	2849.2	4420.6	5214.5	5726.8	5712.1
27.5°	420.1	440.4	484.5	609.1	1013.7	1710.0	3003.0	4961.2	5864.3	6345.5	6163.2
30°	412.9	440.4	486.9	574.0	914.5	1627.6	3129.2	5436.1	6364.3	6763.2	6368.4
32.5°	407.1	411.2	432.4	495.1	820.0	1531.6	3214.8	5861.9	6853.7	7160.6	6663.9
35°	329.0	349.4	383.5	443.8	764.5	1473.8	3214.8	6229.1	7335.6	7562.1	6945.6
37.5°	316.7	334.7	364.8	416.1	733.6	1445.4	3150.4	6583.3	7828.3	8017.3	7177.7
40°	310.3	324.8	353.5	395.0	720.6	1412.8	3056.8	6896.0	8309.5	8473.3	7394.3
42.5°	305.3	318.4	345.3	381.9	703.6	1376.9	2981.0	7146.7	8727.3	8862.5	7601.2
45°	302.9	316.7	346.0	388.3	669.3	1329.8	2955.8	7417.9	9070.9	9187.3	7825.0
47.5°	302.9	319.2	350.1	402.3	628.6	1280.9	3034.7	7775.4	9395.8	9452.8	8088.9
50°	300.5	318.4	361.6	388.3	569.2	1219.0	3220.5	8225.7	9747.6	9754.1	8422.8
52.5°	295.6	316.7	389.2	380.3	500.7	1137.6	3471.2	8803.7	10267.8	10307.0	8945.5
55°	289.9	314.2	381.9	361.6	444.7	1040.6	3676.5	9506.6	10999.0	11107.4	9714.2
57.5°	282.5	311.1	369.7	335.4	407.9	916.0	3750.6	10021.1	11509.7	11781.6	10580.5
60°	276.0	308.6	333.8	319.9	385.2	811.0	3607.1	9919.4	11474.6	12060.9	11348.4
62.5°	269.5	311.1	304.5	310.3	374.6	743.3	3232.6	9104.3	10894.0	11772.6	11917.5
65°	262.1	289.1	287.5	302.1	372.1	716.6	2679.7	7882.1	9772.0	10861.4	12051.9
67.5°	252.5	267.1	275.2	291.5	380.3	693.0	2162.7	6501.9	8212.7	9496.0	11351.6
70°	241.9	254.0	263.1	278.5	375.4	682.4	1798.6	5127.4	6516.6	7782.7	9969.8
72.5°	228.0	238.6	246.8	261.3	370.6	676.7	1519.5	4129.1	4865.2	5781.3	8105.9
75°	211.7	221.5	227.2	241.9	355.0	619.7	1194.6	3494.0	3640.7	4021.6	6456.3
77.5°	193.0	200.3	205.3	221.5	314.2	515.4	863.9	2695.3	2827.1	2919.9	4949.9
80°	170.9	178.4	180.7	196.2	260.6	403.1	563.4	1990.9	2114.6	2135.8	3232.6
82.5°	145.7	153.2	153.2	167.8	213.3	289.9	369.7	1363.8	1388.3	1459.9	2284.7
85°	117.3	123.0	123.0	130.3	165.3	216.6	254.0	684.8	677.5	773.5	1979.4
87.5°	83.9	87.9	91.9	93.7	118.0	143.3	153.2	208.4	137.6	157.9	1271.0
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°	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5
2.5°	5748.8	5795.1	5747.9	5713.7	5566.3	5444.9	5282.9	5199.8
5°	6179.4	6297.5	6257.7	6114.4	5806.6	5460.4	5067.2	4889.7
7.5°	6127.2	6401.7	6408.2	6140.4	5686.8	5177.1	4644.5	4392.2
10°	5721.8	6072.8	6173.0	5913.3	5432.0	4861.9	4251.3	3963.1
12.5°	5269.1	5612.7	5689.2	5599.7	5197.5	4625.1	4005.4	3722.8
15°	4898.5	5052.4	5143.8	5221.8	4996.4	4530.5	3991.4	3681.3
17.5°	4673.1	4655.9	4682.1	4818.0	4856.2	4638.8	4203.2	3861.3
20°	4591.6	4330.3	4323.7	4511.0	4790.3	4897.0	4616.8	4206.6
22.5°	4636.4	4213.1	4159.2	4381.6	4825.3	5269.1	5159.1	4690.9
25°	4791.1	4222.8	4179.6	4394.6	4952.4	5665.6	5744.7	5318.0
27.5°	5034.6	4284.6	4227.7	4448.3	5120.9	5998.7	6321.2	5925.4
30°	5265.9	4392.2	4321.2	4554.1	5274.8	6130.7	6674.5	6399.3
32.5°	5546.8	4593.3	4468.7	4748.8	5465.4	6340.6	6989.6	6791.7
35°	5821.9	4880.0	4725.2	5049.3	5677.8	6602.1	7349.6	7293.3
37.5°	6124.0	5254.5	5126.5	5437.7	5968.6	6848.8	7808.7	7881.3
40°	6446.5	5751.2	5599.7	6004.5	6419.6	7158.2	8288.4	8462.7
42.5°	6771.5	6302.4	6121.6	6532.0	6915.5	7463.6	8698.7	8956.9
45°	7143.5	6900.9	6815.4	7259.2	7392.0	7754.2	9001.6	9322.5
47.5°	7576.8	7580.0	7717.6	7895.2	7872.2	8083.2	9306.3	9649.1
50°	8082.4	8427.5	8731.3	8849.5	8367.4	8436.6	9728.9	10086.3
52.5°	8689.8	9441.4	9817.5	9740.2	8900.8	8868.2	10398.2	10688.8
55°	9449.5	10514.7	10888.4	10833.0	9513.9	9456.1	11232.0	11401.3
57.5°	10328.9	11554.4	11898.1	11649.0	10250.0	10100.9	11921.6	11957.5
60°	11101.7	12378.5	12679.8	12403.6	10992.6	10787.3	12352.4	12179.0
62.5°	11531.6	12657.7	12869.5	12572.1	11501.4	11518.5	12446.8	12059.2
65°	11339.5	11951.8	12020.2	11995.7	11370.3	11942.7	12107.3	11506.4
67.5°	10287.4	10166.8	10281.7	10440.6	10246.6	11384.2	11166.8	10302.0
70°	8434.1	7772.1	8000.9	8107.7	8195.5	9796.3	9692.3	8391.0
72.5°	6356.1	5444.9	5625.7	5603.7	6010.9	7857.7	7537.7	6169.6
75°	4503.7	3691.9	3714.8	3705.7	4194.2	6147.7	5458.0	4221.1
77.5°	3151.3	2674.9	2687.1	2737.6	2819.8	4636.4	3899.5	3083.6
80°	2166.7	2030.0	2097.5	2101.7	1954.3	3114.6	2880.9	2474.6
82.5°	1613.8	1411.1	1394.9	1418.5	1531.6	2523.3	2214.1	1716.5
85°	1321.5	835.5	671.8	841.9	1357.3	2498.9	1470.5	905.4
87.5°	744.2	396.5	179.1	332.3	541.5	1654.6	425.1	115.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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