

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: P193052

Luminaire Tested: **GLEON-AF-04-LED-E1-SLR-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193052
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-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 13446.5 lumens
Efficiency: N/A
Efficacy: 104.2 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

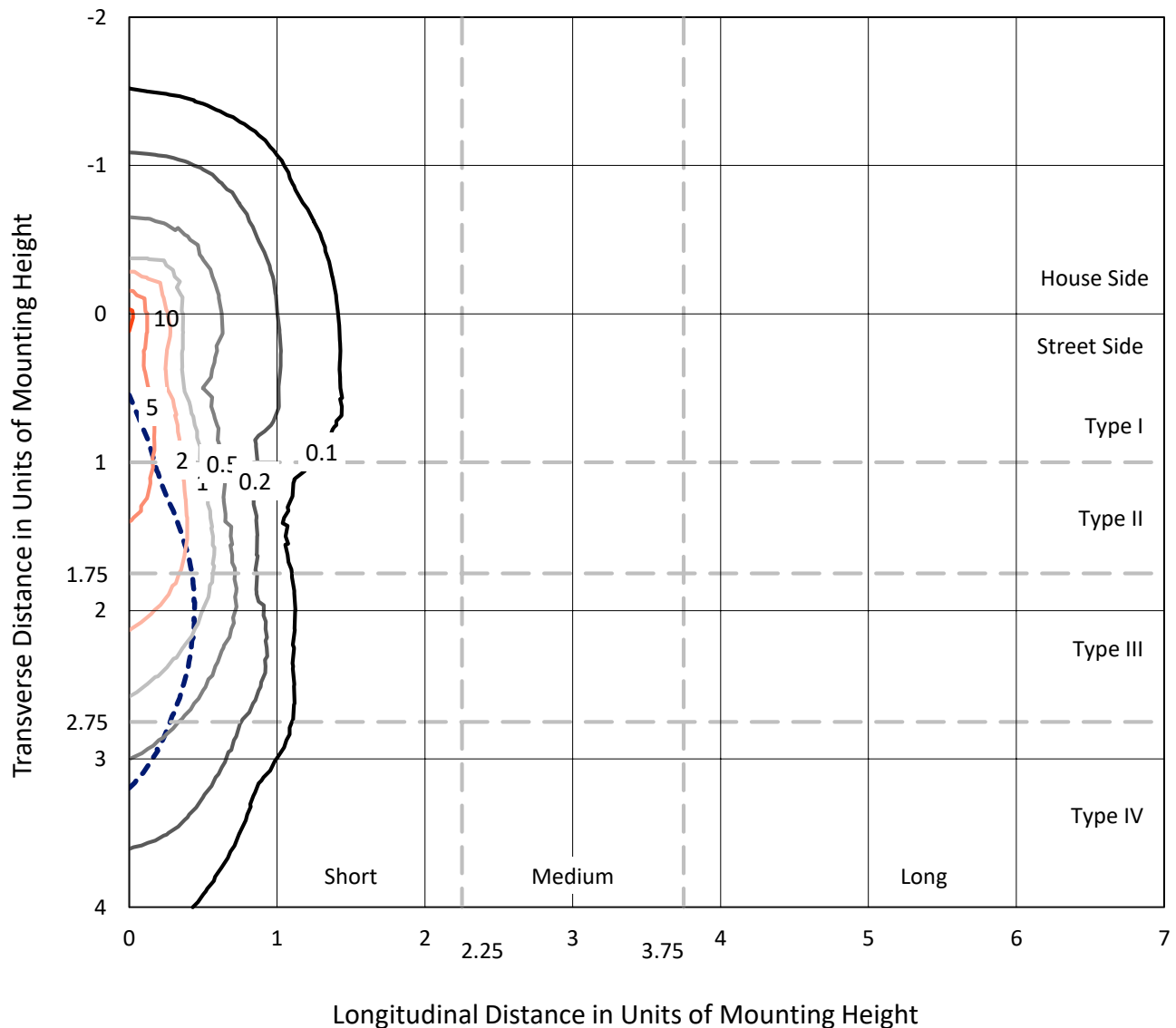


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

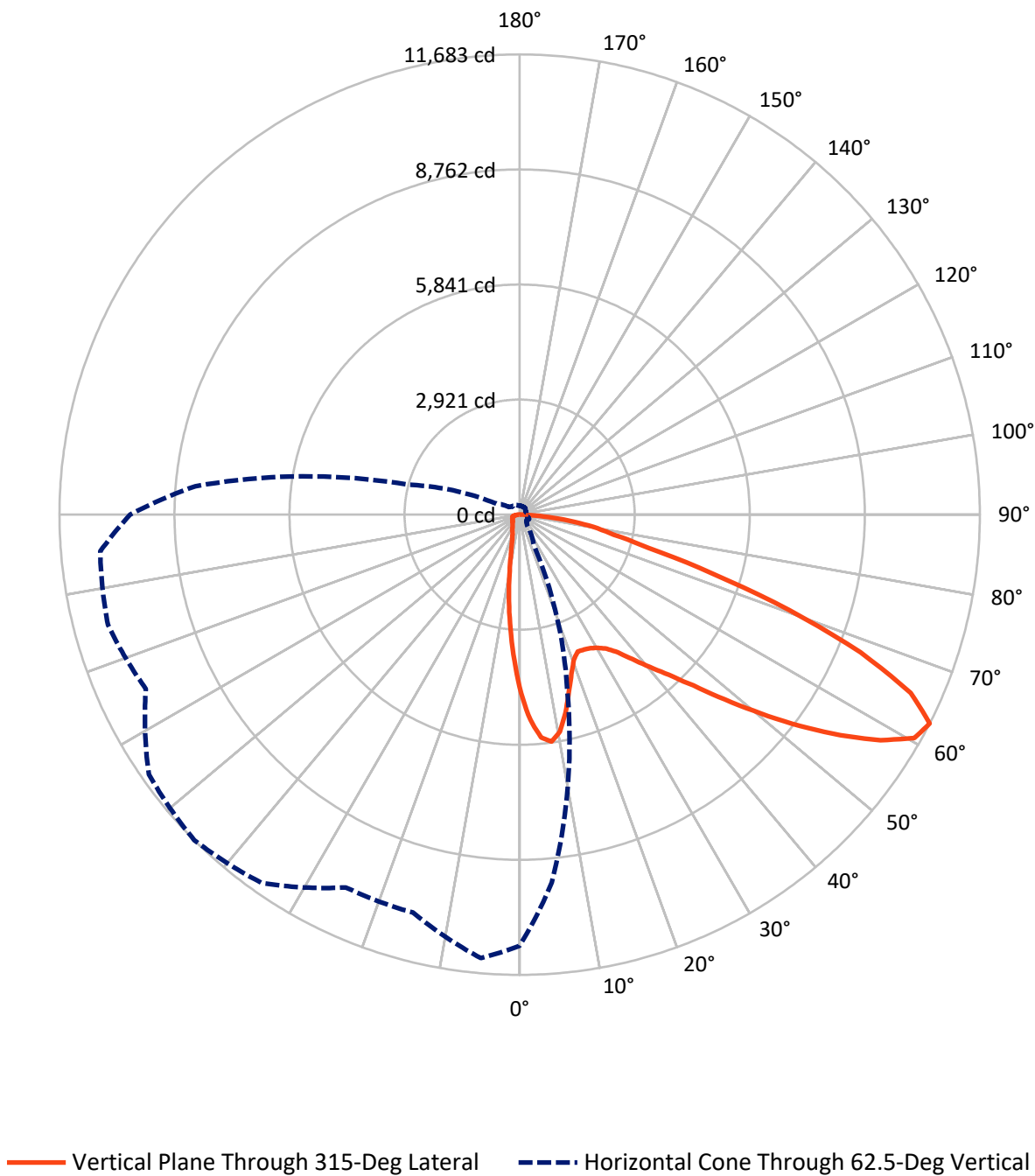


Based on 20 foot mounting height. Maximum calculated value = 11.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2225.2	0.0	2225.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	11221.3	0.0	11221.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	13446.5	0.0	13446.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.7	2.5
10°-20°	606.4	4.5
20°-30°	884.2	6.6
30°-40°	1361.8	10.1
40°-50°	2004.1	14.9
50°-60°	2939.6	21.9
60°-70°	3286.1	24.4
70°-80°	1608.8	12.0
80°-90°	424.8	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°	13446.5	100.0
0°-180°	13446.5	100.0

Coefficient of Utilization



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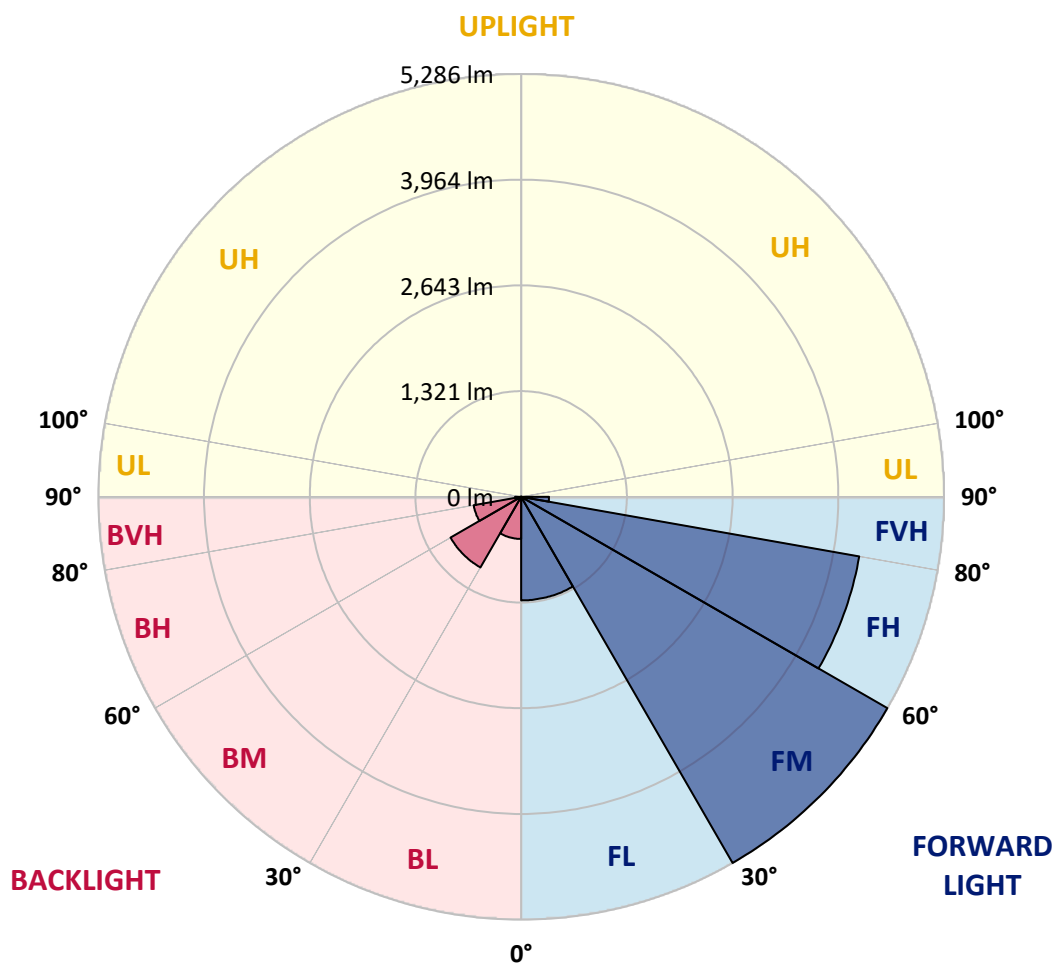
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1294.9	9.6			
FM	(30°-60°)	5286.0	39.3			
FH	(60°-80°)	4291.7	31.9			G2/5000
FVH	(80°-90°)	348.8	2.6			G3/500
BL	(0°-30°)	526.5	3.9	B2/1000		
BM	(30°-60°)	1019.6	7.6	B2/2500		
BH	(60°-80°)	603.2	4.5	B2/1000		G2/1000
BVH	(80°-90°)	75.9	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°	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0
2.5°	4720.3	4624.3	4464.7	4298.3	4197.0	4078.7	3986.4	3905.0	3742.4	3710.7	3739.5
5°	4438.7	4245.9	3945.1	3641.9	3440.1	3223.5	3055.0	2919.7	2713.6	2677.3	2720.9
7.5°	3987.1	3756.5	3358.8	2972.2	2686.9	2416.4	2234.6	2089.7	1928.5	1859.0	1863.4
10°	3597.6	3337.4	2867.3	2446.7	2213.0	2030.5	1877.5	1728.9	1565.5	1458.4	1428.8
12.5°	3379.5	3080.1	2538.3	2162.8	1946.2	1754.0	1589.1	1430.3	1255.8	1146.4	1115.4
15°	3341.8	3016.5	2414.8	1981.0	1709.7	1466.5	1272.1	1094.7	915.0	826.4	807.9
17.5°	3505.1	3130.4	2375.0	1819.0	1487.2	1187.1	948.4	750.3	603.8	559.5	555.9
20°	3818.6	3349.3	2369.9	1666.9	1267.7	915.8	660.8	516.7	452.4	439.8	440.6
22.5°	4258.4	3688.5	2433.3	1552.2	1066.0	683.0	496.7	432.4	407.3	395.4	395.4
25°	4827.5	4155.6	2579.7	1468.8	890.7	545.5	438.3	399.9	376.3	368.1	369.7
27.5°	5379.0	4610.2	2749.7	1403.0	776.2	495.3	415.4	380.7	360.0	351.9	355.5
30°	5809.2	5013.8	2891.6	1313.6	717.8	481.2	423.6	388.1	358.5	346.0	346.7
32.5°	6165.5	5367.2	3010.6	1249.2	666.1	412.5	365.2	349.6	346.0	331.2	323.7
35°	6620.8	5752.3	3090.5	1250.7	641.6	368.1	325.3	297.8	277.9	260.9	260.9
37.5°	7154.6	6194.2	3175.5	1267.7	632.7	342.2	311.2	283.8	265.4	249.1	246.2
40°	7682.2	6627.4	3253.0	1283.9	627.5	326.6	300.1	275.0	258.0	241.7	237.3
42.5°	8131.0	6983.8	3322.6	1292.1	609.7	325.3	291.9	269.1	252.8	235.0	230.6
45°	8462.7	7282.3	3397.2	1304.7	592.0	331.2	291.9	268.3	248.3	231.4	226.9
47.5°	8759.2	7632.8	3522.2	1304.7	570.7	320.0	301.5	269.1	247.6	229.9	226.1
50°	9156.2	8113.1	3758.7	1274.3	540.3	308.2	317.8	266.1	240.9	226.9	222.5
52.5°	9703.1	8728.9	4134.2	1221.8	493.8	285.2	315.6	264.6	234.4	219.5	214.3
55°	10349.9	9388.2	4543.6	1160.6	424.3	269.1	304.5	260.9	226.9	210.7	205.5
57.5°	10854.8	9842.1	4832.0	1066.0	363.8	260.1	269.8	257.2	218.1	201.0	196.6
60°	11055.8	9824.4	4911.1	939.5	334.2	252.8	235.8	288.2	210.7	193.7	188.5
62.5°	10947.1	9370.5	4689.3	850.8	327.4	243.2	221.0	266.8	204.8	188.5	181.2
65°	10445.3	8566.3	4101.7	827.1	346.7	233.6	211.4	209.2	196.6	181.2	173.7
67.5°	9352.0	7364.4	3284.2	829.4	371.1	224.0	201.8	191.4	185.5	172.9	166.3
70°	7617.2	5822.4	2448.2	835.3	383.6	212.8	191.4	180.4	173.7	161.1	156.7
72.5°	5600.7	4487.5	1778.4	796.8	385.8	200.3	177.4	167.8	161.1	147.8	144.1
75°	3831.8	3432.7	1233.6	660.0	336.3	182.6	161.9	153.0	148.6	132.3	130.1
77.5°	2799.2	2576.8	789.4	490.0	259.5	160.4	142.7	136.0	133.1	115.3	112.3
80°	2246.4	2038.7	493.8	335.5	190.0	134.5	119.7	116.1	113.1	95.4	93.1
82.5°	1558.1	1365.3	317.1	218.1	142.7	104.3	94.6	93.1	88.7	72.4	70.3
85°	821.9	741.5	201.0	148.6	103.5	71.7	65.8	65.8	63.6	48.1	46.6
87.5°	105.0	170.8	102.0	77.6	57.0	31.8	31.8	31.0	33.3	27.4	23.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0
2.5°	3671.4	3706.9	3673.0	3675.2	3712.8	3825.2	3876.2	3918.4	3963.5	3993.0	4006.3
5°	2661.0	2743.8	2771.9	2831.0	2918.2	3061.7	3118.6	3160.0	3187.3	3203.6	3210.2
7.5°	1819.8	1870.1	1926.2	2021.7	2211.6	2295.9	2333.6	2324.0	2293.0	2281.9	2270.7
10°	1371.9	1352.0	1341.6	1394.0	1547.8	1632.9	1659.4	1633.5	1616.6	1620.4	1638.8
12.5°	1063.0	1028.2	986.1	980.2	1081.4	1157.5	1174.5	1176.0	1207.1	1234.4	1275.0
15°	774.6	771.0	750.3	737.7	795.3	857.4	864.8	878.1	906.2	926.2	961.7
17.5°	546.3	566.2	582.5	590.5	634.2	678.6	670.5	663.8	658.7	658.7	675.7
20°	440.6	453.9	474.5	498.2	542.6	573.6	553.6	527.0	507.8	501.9	504.1
22.5°	396.9	407.3	419.1	439.8	479.7	501.2	479.7	460.5	441.3	434.7	432.4
25°	374.8	388.1	399.2	414.6	444.2	459.0	438.3	424.3	412.5	404.4	398.5
27.5°	362.2	374.0	377.0	384.4	409.5	422.9	412.5	406.6	399.2	391.8	384.4
30°	348.9	346.7	341.6	342.2	362.2	375.6	374.8	376.3	375.6	373.2	371.8
32.5°	318.6	314.1	309.8	314.1	332.5	344.5	345.2	348.1	348.1	347.5	353.4
35°	265.4	273.4	278.7	291.9	314.1	324.5	320.0	312.7	299.4	291.2	290.5
37.5°	245.4	246.9	255.7	274.2	298.6	308.2	301.5	284.6	275.7	274.2	276.4
40°	235.8	237.3	242.4	259.5	283.8	293.5	287.6	275.0	266.8	266.1	269.8
42.5°	229.1	230.6	233.6	245.4	265.4	277.2	277.9	269.1	259.5	260.1	263.9
45°	225.4	226.1	225.4	231.4	249.8	263.9	269.8	263.9	255.7	257.2	261.6
47.5°	224.7	222.5	219.5	221.0	240.3	254.2	261.6	259.5	255.7	257.2	260.9
50°	221.8	216.6	212.8	212.2	231.4	246.2	252.8	252.8	254.2	257.2	260.9
52.5°	212.8	206.9	206.9	204.8	225.4	239.5	243.9	244.6	246.9	252.1	257.2
55°	201.8	199.6	201.8	198.1	221.0	234.4	236.5	237.9	239.5	243.9	251.3
57.5°	192.2	189.2	194.4	193.0	217.3	229.1	229.1	232.0	232.0	237.9	243.9
60°	187.1	181.2	183.3	184.7	212.2	224.7	223.2	226.1	227.7	232.8	237.3
62.5°	180.4	175.2	175.2	178.8	206.3	218.1	217.3	219.5	225.4	226.9	231.4
65°	172.2	170.0	167.8	172.2	200.3	210.7	211.4	214.3	219.5	221.0	224.7
67.5°	164.1	164.9	160.4	164.9	195.1	203.2	203.2	209.2	211.4	214.3	218.1
70°	155.2	155.9	152.3	157.5	191.4	195.1	194.4	202.5	204.0	206.3	209.9
72.5°	144.1	144.1	142.7	150.0	185.5	187.1	185.5	192.2	193.0	195.1	196.6
75°	132.3	132.3	130.8	141.2	181.8	178.1	173.7	178.8	180.4	181.8	181.8
77.5°	116.8	118.2	118.2	130.8	169.3	174.5	159.6	162.6	164.9	165.5	163.4
80°	97.6	101.3	102.7	119.0	141.9	161.1	142.7	144.9	145.7	145.7	142.7
82.5°	74.7	81.3	85.0	102.7	108.7	135.3	124.2	126.4	124.2	119.7	118.2
85°	51.8	60.6	65.0	78.3	82.1	104.3	103.5	103.5	99.1	93.1	92.5
87.5°	28.1	33.3	36.3	46.6	56.2	70.3	76.2	74.0	70.3	66.5	67.3
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°	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0
2.5°	4075.8	4176.3	4336.7	4459.4	4582.9	4701.9	4830.5	4928.8	5012.4	5044.8	5143.9
5°	3277.4	3403.2	3554.6	3828.2	4021.9	4235.4	4482.4	4809.0	4934.7	5108.4	5393.0
7.5°	2317.3	2431.1	2675.1	2896.1	3170.2	3472.6	3806.0	4256.8	4421.7	4700.5	5163.9
10°	1730.4	1862.8	2058.6	2244.8	2486.6	2795.5	3178.5	3682.6	3882.8	4185.1	4718.9
12.5°	1394.0	1550.1	1757.8	1932.9	2119.9	2338.0	2709.8	3262.7	3531.0	3795.6	4335.3
15°	1071.1	1234.4	1427.4	1649.9	1856.1	2091.1	2480.6	3085.3	3394.2	3670.0	4130.5
17.5°	741.5	881.0	1124.3	1356.4	1620.4	1921.1	2417.2	3122.9	3491.8	3809.7	4165.9
20°	525.5	605.4	804.9	1074.0	1403.0	1780.7	2405.3	3321.2	3800.8	4163.8	4393.7
22.5°	442.1	471.6	587.6	834.5	1214.4	1675.7	2446.7	3599.0	4217.7	4681.2	4756.6
25°	402.8	420.5	481.2	654.9	1046.7	1599.5	2586.3	4013.0	4733.6	5198.7	5185.3
27.5°	381.5	399.9	439.8	552.9	920.3	1552.2	2726.1	4503.7	5323.5	5760.3	5594.8
30°	374.8	399.9	442.1	521.1	830.1	1477.6	2840.6	4934.7	5777.4	6139.6	5781.1
32.5°	369.7	373.2	392.5	449.4	744.4	1390.5	2918.2	5321.4	6221.7	6500.3	6049.3
35°	298.6	317.1	348.1	402.8	694.2	1337.9	2918.2	5654.7	6659.3	6864.8	6305.2
37.5°	287.6	303.8	331.2	377.7	666.1	1311.9	2859.9	5976.3	7106.4	7277.9	6515.7
40°	281.7	294.9	320.7	358.5	654.1	1282.4	2774.8	6260.1	7543.3	7691.9	6712.5
42.5°	277.2	289.0	313.3	346.7	638.6	1249.9	2706.2	6487.7	7922.5	8045.2	6900.2
45°	275.0	287.6	314.1	352.6	607.6	1207.1	2683.2	6733.8	8234.5	8340.1	7103.5
47.5°	275.0	289.7	317.8	365.2	570.7	1162.7	2754.9	7058.3	8529.4	8581.1	7343.0
50°	272.7	289.0	328.3	352.6	516.7	1106.6	2923.4	7467.1	8848.7	8854.6	7646.1
52.5°	268.3	287.6	353.4	345.2	454.6	1032.6	3151.1	7992.0	9321.0	9356.4	8120.5
55°	263.1	285.2	346.7	328.3	403.6	944.6	3337.4	8629.9	9984.7	10083.1	8818.4
57.5°	256.5	282.3	335.5	304.5	370.3	831.6	3404.6	9097.0	10448.3	10695.1	9604.9
60°	250.5	280.1	303.0	290.5	349.6	736.2	3274.5	9004.6	10416.4	10948.7	10301.8
62.5°	244.6	282.3	276.4	281.7	340.1	674.9	2934.4	8264.7	9889.4	10686.9	10818.6
65°	237.9	262.4	260.9	274.2	337.8	650.4	2432.6	7155.2	8870.9	9859.9	10940.5
67.5°	229.1	242.4	249.8	264.6	345.2	629.0	1963.3	5902.3	7455.3	8620.2	10304.8
70°	219.5	230.6	238.7	252.8	340.8	619.4	1632.9	4654.6	5915.7	7065.0	9050.5
72.5°	206.9	216.6	224.0	237.3	336.3	614.2	1379.3	3748.3	4416.6	5248.2	7358.5
75°	192.2	201.0	206.3	219.5	322.4	562.4	1084.4	3171.8	3304.9	3650.8	5860.8
77.5°	175.2	181.8	186.3	201.0	285.2	467.8	784.3	2446.7	2566.4	2650.6	4493.4
80°	155.2	161.9	164.1	178.1	236.5	365.9	511.6	1807.2	1919.6	1938.8	2934.4
82.5°	132.3	139.0	139.0	152.3	193.7	263.1	335.5	1238.1	1260.3	1325.4	2074.1
85°	106.4	111.7	111.7	118.2	150.0	196.6	230.6	621.6	615.0	702.2	1797.0
87.5°	76.2	79.9	83.5	85.0	107.2	130.1	139.0	189.2	124.9	143.3	1153.9
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°	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0
2.5°	5218.6	5260.8	5217.7	5186.7	5053.0	4942.9	4795.7	4720.3
5°	5609.6	5716.8	5680.6	5550.5	5271.1	4956.9	4600.0	4438.7
7.5°	5562.3	5811.4	5817.3	5574.1	5162.4	4699.7	4216.2	3987.1
10°	5194.1	5512.7	5603.7	5367.9	4931.0	4413.6	3859.2	3597.6
12.5°	4783.2	5095.1	5164.5	5083.3	4718.2	4198.5	3636.0	3379.5
15°	4446.9	4586.6	4669.4	4740.3	4535.6	4112.7	3623.5	3341.8
17.5°	4242.1	4226.5	4250.3	4373.6	4408.4	4211.1	3815.7	3505.1
20°	4168.2	3930.9	3925.0	4095.0	4348.5	4445.4	4191.0	3818.6
22.5°	4208.8	3824.5	3775.7	3977.5	4380.3	4783.2	4683.4	4258.4
25°	4349.3	3833.4	3794.1	3989.3	4495.7	5143.2	5214.8	4827.5
27.5°	4570.4	3889.5	3837.8	4038.1	4648.7	5445.5	5738.2	5379.0
30°	4780.2	3987.1	3922.9	4134.2	4788.4	5565.2	6059.0	5809.2
32.5°	5035.2	4169.7	4056.6	4310.9	4961.4	5756.0	6345.1	6165.5
35°	5285.1	4429.9	4289.4	4583.7	5154.3	5993.2	6671.8	6620.8
37.5°	5559.3	4769.9	4653.8	4936.3	5418.1	6217.2	7088.6	7154.6
40°	5852.0	5220.7	5083.3	5450.6	5827.7	6498.0	7524.0	7682.2
42.5°	6146.9	5721.3	5557.2	5929.6	6277.8	6775.2	7896.6	8131.0
45°	6484.7	6264.5	6187.0	6589.8	6710.2	7039.1	8171.6	8462.7
47.5°	6878.0	6880.9	7005.9	7167.1	7146.3	7337.8	8448.0	8759.2
50°	7337.1	7650.5	7926.2	8033.4	7595.7	7658.6	8831.7	9156.2
52.5°	7888.5	8570.8	8912.2	8842.1	8079.9	8050.3	9439.2	9703.1
55°	8578.2	9545.0	9884.2	9834.0	8636.5	8584.1	10196.2	10349.9
57.5°	9376.4	10488.9	10800.9	10574.6	9304.7	9169.5	10822.2	10854.8
60°	10077.8	11236.9	11510.5	11259.8	9978.8	9792.6	11213.3	11055.8
62.5°	10468.2	11490.5	11682.6	11412.9	10440.9	10456.3	11299.0	10947.1
65°	10293.8	10849.6	10911.7	10889.6	10321.8	10841.5	10990.8	10445.3
67.5°	9338.7	9229.3	9333.6	9477.7	9301.8	10334.4	10137.1	9352.0
70°	7656.4	7055.4	7263.1	7359.9	7439.8	8893.0	8798.4	7617.2
72.5°	5770.0	4942.9	5107.0	5087.0	5456.6	7133.0	6842.6	5600.7
75°	4088.4	3351.4	3372.1	3364.0	3807.4	5580.8	4954.7	3831.8
77.5°	2860.6	2428.2	2439.3	2485.1	2559.7	4208.8	3539.9	2799.2
80°	1967.0	1842.7	1904.1	1907.7	1774.1	2827.3	2615.2	2246.4
82.5°	1465.0	1280.9	1266.2	1287.6	1390.5	2290.7	2009.9	1558.1
85°	1199.6	758.4	609.7	764.3	1232.2	2268.5	1334.9	821.9
87.5°	675.7	360.0	162.6	301.5	491.5	1502.0	385.8	105.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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