

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: P193852

Luminaire Tested: **GLEON-AF-04-LED-E1-SLR-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193852
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-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 11345 lumens
Efficiency: N/A
Efficacy: 87.9 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

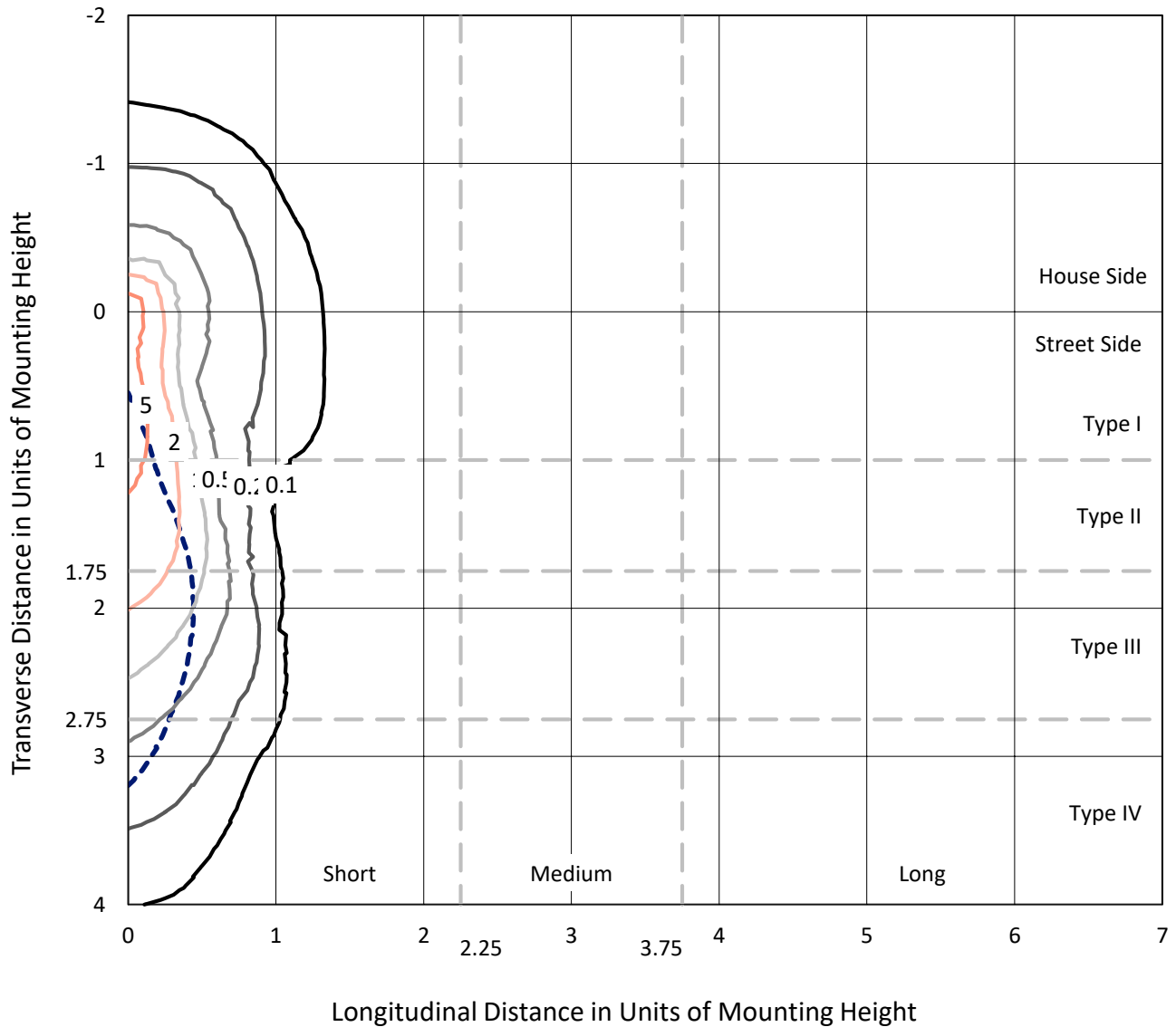


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

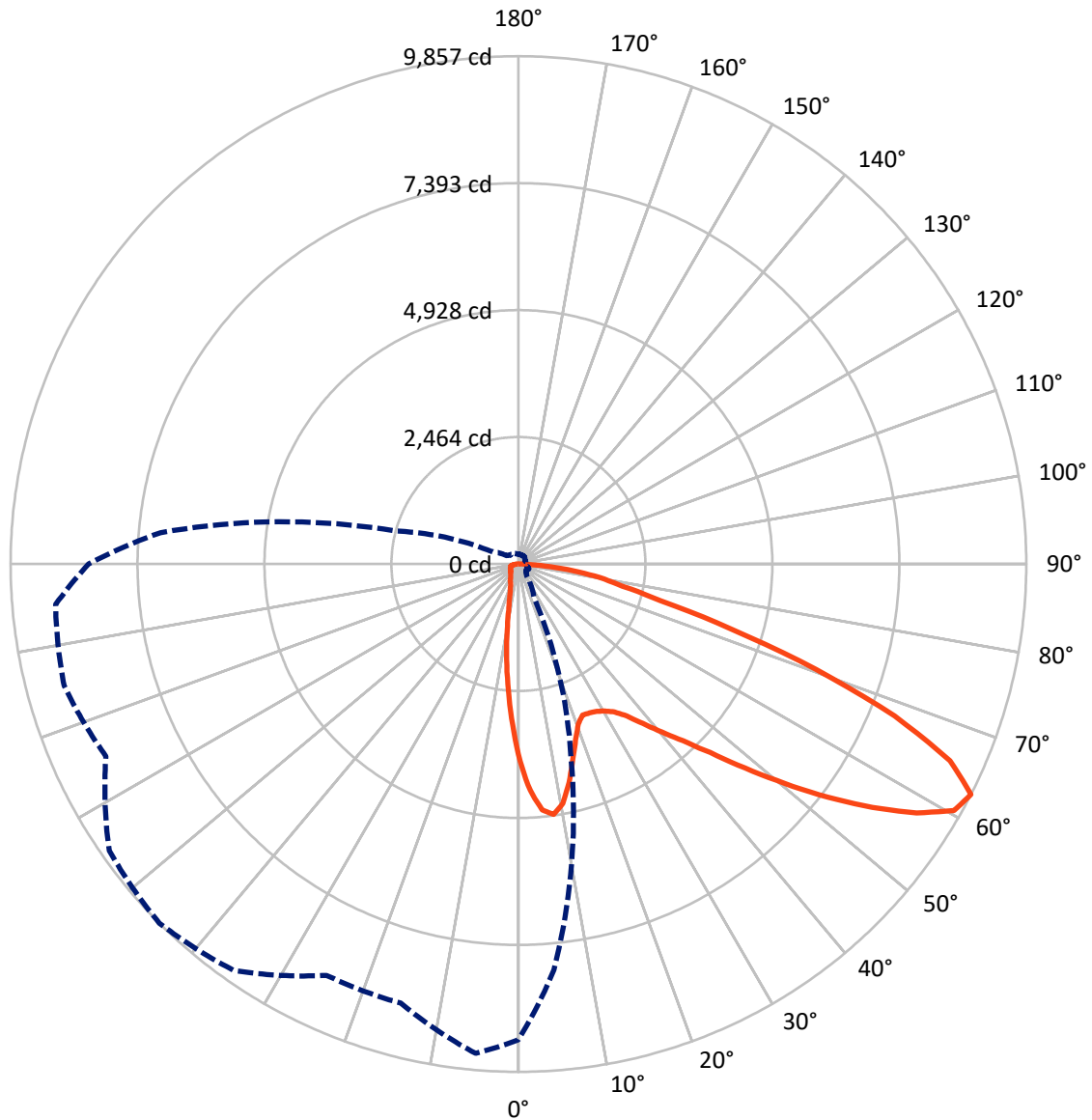


Based on 20 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Short - Non-Cutoff

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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	1877.4	0.0	1877.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	9467.6	0.0	9467.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	11345.0	0.0	11345.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.0	2.5
10°-20°	511.7	4.5
20°-30°	746.0	6.6
30°-40°	1148.9	10.1
40°-50°	1690.9	14.9
50°-60°	2480.2	21.9
60°-70°	2772.5	24.4
70°-80°	1357.4	12.0
80°-90°	358.4	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°	11345.0	100.0
0°-180°	11345.0	100.0

Coefficient of Utilization



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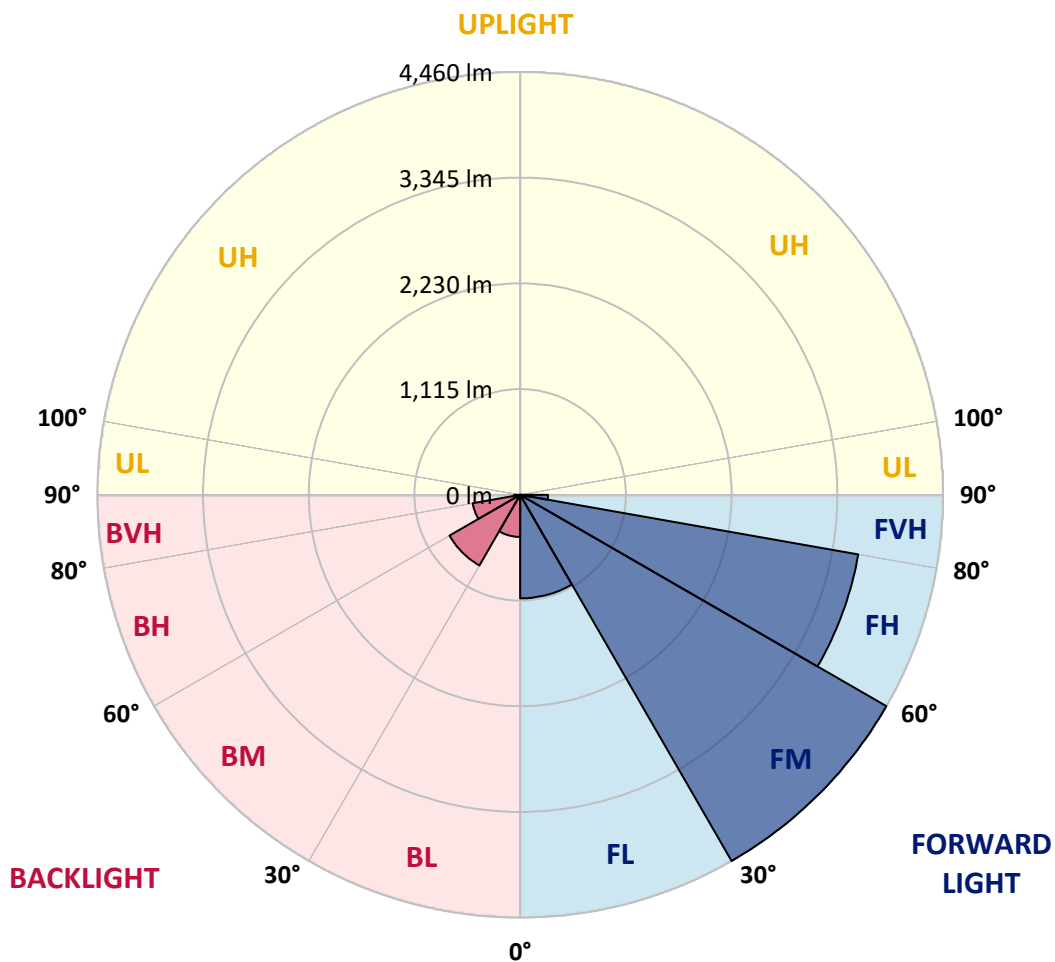
CATALOG NUMBER: GLEON-AF-04-LED-E1-SLR-8030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1092.5	9.6			
FM	(30°-60°)	4459.8	39.3			
FH	(60°-80°)	3620.9	31.9			G2/5000
FVH	(80°-90°)	294.3	2.6			G3/500
BL	(0°-30°)	444.2	3.9	B1/500		
BM	(30°-60°)	860.2	7.6	B1/1000		
BH	(60°-80°)	509.0	4.5	B2/1000		G2/1000
BVH	(80°-90°)	64.1	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°	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0
2.5°	3982.6	3901.6	3766.8	3626.5	3541.1	3441.3	3363.3	3294.7	3157.5	3130.7	3155.0
5°	3745.0	3582.2	3328.4	3072.7	2902.5	2719.7	2577.5	2463.4	2289.4	2258.9	2295.7
7.5°	3364.0	3169.4	2833.9	2507.7	2267.0	2038.7	1885.3	1763.1	1627.1	1568.5	1572.2
10°	3035.3	2815.8	2419.1	2064.3	1867.2	1713.2	1584.1	1458.7	1320.9	1230.5	1205.5
12.5°	2851.3	2598.7	2141.6	1824.8	1642.1	1479.9	1340.8	1206.8	1059.6	967.3	941.1
15°	2819.5	2545.1	2037.5	1671.4	1442.5	1237.3	1073.3	923.6	772.1	697.2	681.6
17.5°	2957.3	2641.2	2003.8	1534.8	1254.8	1001.6	800.1	633.0	509.5	472.1	469.0
20°	3221.8	2825.8	1999.4	1406.3	1069.6	772.7	557.5	435.9	381.7	371.1	371.7
22.5°	3592.8	3112.0	2053.1	1309.7	899.3	576.3	419.1	364.8	343.6	333.7	333.7
25°	4073.1	3506.2	2176.5	1239.2	751.5	460.3	369.8	337.4	317.4	310.6	311.8
27.5°	4538.3	3889.7	2320.0	1183.7	654.8	417.8	350.5	321.2	303.7	296.9	300.0
30°	4901.3	4230.2	2439.7	1108.2	605.6	406.0	357.4	327.4	302.5	291.9	292.5
32.5°	5201.9	4528.3	2540.1	1054.0	561.9	348.0	308.1	295.0	291.9	279.4	273.2
35°	5586.0	4853.2	2607.5	1055.2	541.3	310.6	274.4	251.3	234.5	220.1	220.1
37.5°	6036.3	5226.2	2679.2	1069.6	533.8	288.7	262.6	239.5	223.9	210.2	207.7
40°	6481.6	5591.6	2744.7	1083.3	529.5	275.7	253.2	232.0	217.7	203.9	200.2
42.5°	6860.1	5892.2	2803.3	1090.1	514.5	274.4	246.3	227.0	213.3	198.3	194.6
45°	7140.2	6144.2	2866.3	1100.7	499.5	279.4	246.3	226.4	209.5	195.2	191.5
47.5°	7390.3	6439.8	2971.7	1100.7	481.5	270.0	254.4	227.0	208.9	194.0	190.8
50°	7725.2	6845.2	3171.3	1075.2	455.9	260.1	268.2	224.5	203.3	191.5	187.7
52.5°	8186.7	7364.7	3488.1	1030.9	416.6	240.7	266.3	223.3	197.7	185.2	180.9
55°	8732.3	7921.0	3833.6	979.1	358.0	227.0	256.9	220.1	191.5	177.7	173.4
57.5°	9158.3	8303.9	4076.8	899.3	306.8	219.5	227.6	217.0	184.0	169.6	165.9
60°	9327.9	8288.9	4143.5	792.7	281.9	213.3	198.9	243.2	177.7	163.4	159.0
62.5°	9236.3	7906.0	3956.4	717.8	276.3	205.2	186.5	225.1	172.8	159.0	152.8
65°	8812.8	7227.5	3460.6	697.9	292.5	197.1	178.4	176.5	165.9	152.8	146.6
67.5°	7890.4	6213.4	2770.9	699.7	313.1	189.0	170.3	161.5	156.5	145.9	140.3
70°	6426.7	4912.5	2065.5	704.7	323.7	179.6	161.5	152.2	146.6	136.0	132.2
72.5°	4725.4	3786.2	1500.5	672.3	325.5	169.0	149.7	141.6	136.0	124.7	121.6
75°	3233.0	2896.2	1040.9	556.9	283.8	154.0	136.6	129.1	125.4	111.6	109.8
77.5°	2361.8	2174.0	666.1	413.5	218.9	135.3	120.4	114.8	112.3	97.3	94.8
80°	1895.3	1720.0	416.6	283.1	160.3	113.5	101.0	97.9	95.4	80.5	78.6
82.5°	1314.7	1151.9	267.5	184.0	120.4	87.9	79.8	78.6	74.8	61.1	59.2
85°	693.5	625.5	169.6	125.4	87.3	60.5	55.5	55.5	53.6	40.5	39.3
87.5°	88.6	144.1	86.1	65.5	48.0	26.8	26.8	26.2	28.1	23.1	20.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0
2.5°	3097.7	3127.6	3098.9	3100.8	3132.6	3227.4	3270.4	3306.0	3344.0	3369.0	3380.2
5°	2245.1	2315.0	2338.7	2388.6	2462.2	2583.2	2631.2	2666.1	2689.2	2702.9	2708.5
7.5°	1535.4	1577.8	1625.2	1705.7	1866.0	1937.1	1968.9	1960.8	1934.6	1925.2	1915.9
10°	1157.5	1140.7	1131.9	1176.2	1305.9	1377.6	1400.1	1378.3	1363.9	1367.0	1382.6
12.5°	896.8	867.5	831.9	827.0	912.4	976.6	991.0	992.2	1018.4	1041.5	1075.8
15°	653.6	650.5	633.0	622.4	671.0	723.4	729.7	740.9	764.6	781.4	811.4
17.5°	460.9	477.7	491.4	498.3	535.1	572.5	565.7	560.0	555.7	555.7	570.0
20°	371.7	382.9	400.4	420.3	457.8	484.0	467.1	444.7	428.4	423.5	425.3
22.5°	334.9	343.6	353.6	371.1	404.7	422.8	404.7	388.5	372.3	366.7	364.8
25°	316.2	327.4	336.8	349.9	374.8	387.3	369.8	358.0	348.0	341.1	336.1
27.5°	305.6	315.6	318.1	324.3	345.5	356.7	348.0	343.0	336.8	330.5	324.3
30°	294.4	292.5	288.1	288.7	305.6	316.8	316.2	317.4	316.8	314.9	313.7
32.5°	268.8	265.1	261.3	265.1	280.6	290.6	291.2	293.7	293.7	293.1	298.1
35°	223.9	230.8	235.1	246.3	265.1	273.8	270.0	263.8	252.6	245.7	245.1
37.5°	207.1	208.3	215.8	231.4	252.0	260.1	254.4	240.1	232.6	231.4	233.2
40°	198.9	200.2	204.6	218.9	239.5	247.6	242.6	232.0	225.1	224.5	227.6
42.5°	193.3	194.6	197.1	207.1	223.9	233.9	234.5	227.0	218.9	219.5	222.6
45°	190.2	190.8	190.2	195.2	210.8	222.6	227.6	222.6	215.8	217.0	220.8
47.5°	189.6	187.7	185.2	186.5	202.7	214.5	220.8	218.9	215.8	217.0	220.1
50°	187.1	182.7	179.6	179.0	195.2	207.7	213.3	213.3	214.5	217.0	220.1
52.5°	179.6	174.6	174.6	172.8	190.2	202.1	205.8	206.4	208.3	212.7	217.0
55°	170.3	168.4	170.3	167.1	186.5	197.7	199.6	200.8	202.1	205.8	212.0
57.5°	162.1	159.7	164.0	162.8	183.4	193.3	193.3	195.8	195.8	200.8	205.8
60°	157.8	152.8	154.7	155.9	179.0	189.6	188.3	190.8	192.1	196.4	200.2
62.5°	152.2	147.8	147.8	150.9	174.0	184.0	183.4	185.2	190.2	191.5	195.2
65°	145.3	143.4	141.6	145.3	169.0	177.7	178.4	180.9	185.2	186.5	189.6
67.5°	138.5	139.1	135.3	139.1	164.6	171.5	171.5	176.5	178.4	180.9	184.0
70°	131.0	131.6	128.5	132.8	161.5	164.6	164.0	170.9	172.1	174.0	177.1
72.5°	121.6	121.6	120.4	126.6	156.5	157.8	156.5	162.1	162.8	164.6	165.9
75°	111.6	111.6	110.4	119.1	153.4	150.3	146.6	150.9	152.2	153.4	153.4
77.5°	98.5	99.8	99.8	110.4	142.8	147.2	134.7	137.2	139.1	139.7	137.8
80°	82.3	85.4	86.7	100.4	119.7	136.0	120.4	122.2	122.9	122.9	120.4
82.5°	63.0	68.6	71.7	86.7	91.7	114.1	104.8	106.6	104.8	101.0	99.8
85°	43.7	51.1	54.9	66.1	69.2	87.9	87.3	87.3	83.6	78.6	78.0
87.5°	23.7	28.1	30.6	39.3	47.4	59.2	64.2	62.4	59.2	56.1	56.8
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°	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0
2.5°	3438.8	3523.6	3659.0	3762.5	3866.6	3967.0	4075.6	4158.5	4229.0	4256.4	4340.0
5°	2765.3	2871.3	2999.1	3229.9	3393.3	3573.5	3781.8	4057.5	4163.5	4310.0	4550.1
7.5°	1955.1	2051.2	2257.0	2443.5	2674.8	2929.9	3211.2	3591.6	3730.7	3965.8	4356.8
10°	1460.0	1571.6	1736.9	1894.0	2098.0	2358.6	2681.7	3107.0	3276.0	3531.1	3981.4
12.5°	1176.2	1307.8	1483.0	1630.8	1788.6	1972.6	2286.3	2752.8	2979.2	3202.4	3657.7
15°	903.7	1041.5	1204.3	1392.0	1566.0	1764.3	2093.0	2603.1	2863.8	3096.4	3485.0
17.5°	625.5	743.4	948.6	1144.4	1367.0	1620.9	2039.3	2634.9	2946.1	3214.3	3514.9
20°	443.4	510.8	679.2	906.2	1183.7	1502.4	2029.4	2802.1	3206.8	3513.0	3707.0
22.5°	372.9	397.9	495.8	704.1	1024.7	1413.8	2064.3	3036.6	3558.5	3949.6	4013.2
25°	339.9	354.9	406.0	552.6	883.1	1349.6	2182.2	3385.8	3993.9	4386.1	4374.9
27.5°	321.8	337.4	371.1	466.5	776.4	1309.7	2300.0	3799.9	4491.5	4860.1	4720.4
30°	316.2	337.4	372.9	439.7	700.4	1246.7	2396.7	4163.5	4874.4	5180.0	4877.6
32.5°	311.8	314.9	331.2	379.2	628.0	1173.1	2462.2	4489.7	5249.3	5484.4	5104.0
35°	252.0	267.5	293.7	339.9	585.6	1128.8	2462.2	4770.9	5618.5	5791.8	5319.7
37.5°	242.6	256.3	279.4	318.7	561.9	1107.0	2412.9	5042.2	5995.8	6140.5	5497.5
40°	237.6	248.8	270.7	302.5	551.9	1082.0	2341.2	5281.7	6364.3	6489.7	5663.4
42.5°	233.9	243.8	264.4	292.5	538.8	1054.6	2283.2	5473.8	6684.3	6787.8	5821.8
45°	232.0	242.6	265.1	297.5	512.6	1018.4	2263.8	5681.5	6947.5	7036.6	5993.3
47.5°	232.0	244.5	268.2	308.1	481.5	981.0	2324.3	5955.2	7196.3	7240.0	6195.3
50°	230.1	243.8	276.9	297.5	435.9	933.6	2466.5	6300.1	7465.7	7470.7	6451.0
52.5°	226.4	242.6	298.1	291.2	383.5	871.2	2658.6	6742.9	7864.2	7894.2	6851.4
55°	222.0	240.7	292.5	276.9	340.5	797.0	2815.8	7281.1	8424.3	8507.2	7440.1
57.5°	216.4	238.2	283.1	256.9	312.4	701.6	2872.5	7675.3	8815.3	9023.6	8103.7
60°	211.4	236.4	255.7	245.1	295.0	621.2	2762.8	7597.3	8788.5	9237.5	8691.8
62.5°	206.4	238.2	233.2	237.6	286.9	569.4	2475.9	6973.0	8343.8	9016.7	9127.7
65°	200.8	221.4	220.1	231.4	285.0	548.8	2052.4	6036.9	7484.4	8318.9	9230.6
67.5°	193.3	204.6	210.8	223.3	291.2	530.7	1656.4	4979.8	6290.1	7273.0	8694.3
70°	185.2	194.6	201.4	213.3	287.5	522.6	1377.6	3927.1	4991.1	5960.8	7636.0
72.5°	174.6	182.7	189.0	200.2	283.8	518.3	1163.7	3162.5	3726.3	4427.9	6208.4
75°	162.1	169.6	174.0	185.2	271.9	474.6	914.9	2676.1	2788.3	3080.2	4944.9
77.5°	147.8	153.4	157.2	169.6	240.7	394.8	661.7	2064.3	2165.3	2236.4	3791.2
80°	131.0	136.6	138.5	150.3	199.6	308.7	431.6	1524.8	1619.6	1635.8	2475.9
82.5°	111.6	117.2	117.2	128.5	163.4	222.0	283.1	1044.6	1063.3	1118.2	1750.0
85°	89.8	94.2	94.2	99.8	126.6	165.9	194.6	524.5	518.9	592.5	1516.1
87.5°	64.2	67.4	70.5	71.7	90.4	109.8	117.2	159.7	105.4	121.0	973.5
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0
2.5°	4403.0	4438.5	4402.3	4376.2	4263.3	4170.3	4046.2	3982.6
5°	4732.9	4823.3	4792.7	4683.0	4447.2	4182.2	3881.0	3745.0
7.5°	4693.0	4903.1	4908.1	4702.9	4355.6	3965.2	3557.3	3364.0
10°	4382.4	4651.2	4727.9	4528.9	4160.4	3723.8	3256.1	3035.3
12.5°	4035.6	4298.8	4357.4	4288.8	3980.8	3542.3	3067.7	2851.3
15°	3751.9	3869.7	3939.6	3999.5	3826.7	3470.0	3057.1	2819.5
17.5°	3579.1	3566.0	3586.0	3690.1	3719.4	3552.9	3219.3	2957.3
20°	3516.8	3316.6	3311.6	3455.0	3668.9	3750.6	3536.1	3221.8
22.5°	3551.1	3226.8	3185.6	3355.9	3695.7	4035.6	3951.4	3592.8
25°	3669.6	3234.2	3201.2	3365.8	3793.0	4339.4	4399.8	4073.1
27.5°	3856.0	3281.6	3238.0	3407.0	3922.1	4594.4	4841.4	4538.3
30°	4033.1	3364.0	3309.7	3488.1	4040.0	4695.5	5112.1	4901.3
32.5°	4248.3	3518.0	3422.6	3637.1	4185.9	4856.4	5353.4	5201.9
35°	4459.1	3737.5	3619.0	3867.3	4348.7	5056.6	5629.1	5586.0
37.5°	4690.5	4024.4	3926.5	4164.7	4571.4	5245.5	5980.8	6036.3
40°	4937.4	4404.8	4288.8	4598.8	4916.9	5482.5	6348.1	6481.6
42.5°	5186.3	4827.1	4688.6	5002.9	5296.7	5716.4	6662.5	6860.1
45°	5471.3	5285.4	5219.9	5559.8	5661.5	5939.0	6894.4	7140.2
47.5°	5803.1	5805.6	5911.0	6046.9	6029.4	6191.0	7127.7	7390.3
50°	6190.3	6454.8	6687.4	6777.8	6408.6	6461.6	7451.4	7725.2
52.5°	6655.6	7231.2	7519.3	7460.1	6817.1	6792.2	7964.0	8186.7
55°	7237.5	8053.2	8339.4	8297.0	7286.7	7242.4	8602.6	8732.3
57.5°	7911.0	8849.6	9112.8	8921.9	7850.5	7736.4	9130.9	9158.3
60°	8502.8	9480.7	9711.5	9500.1	8419.3	8262.1	9460.8	9327.9
62.5°	8832.1	9694.6	9856.8	9629.2	8809.1	8822.2	9533.1	9236.3
65°	8684.9	9153.9	9206.3	9187.6	8708.6	9147.1	9273.0	8812.8
67.5°	7879.2	7786.9	7874.8	7996.4	7848.0	8719.2	8552.7	7890.4
70°	6459.8	5952.7	6128.0	6209.7	6277.0	7503.1	7423.3	6426.7
72.5°	4868.2	4170.3	4308.8	4292.0	4603.8	6018.2	5773.1	4725.4
75°	3449.4	2827.6	2845.1	2838.2	3212.4	4708.6	4180.3	3233.0
77.5°	2413.5	2048.7	2058.0	2096.7	2159.7	3551.1	2986.7	2361.8
80°	1659.5	1554.8	1606.5	1609.6	1496.8	2385.5	2206.5	1895.3
82.5°	1236.1	1080.8	1068.3	1086.4	1173.1	1932.7	1695.7	1314.7
85°	1012.2	639.9	514.5	644.9	1039.6	1914.0	1126.3	693.5
87.5°	570.0	303.7	137.2	254.4	414.7	1267.3	325.5	88.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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