

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: P193863

Luminaire Tested: **GLEON-AF-05-LED-E1-SLR-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193863
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-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 17237 lumens
Efficiency: N/A
Efficacy: 82.1 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): 210
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

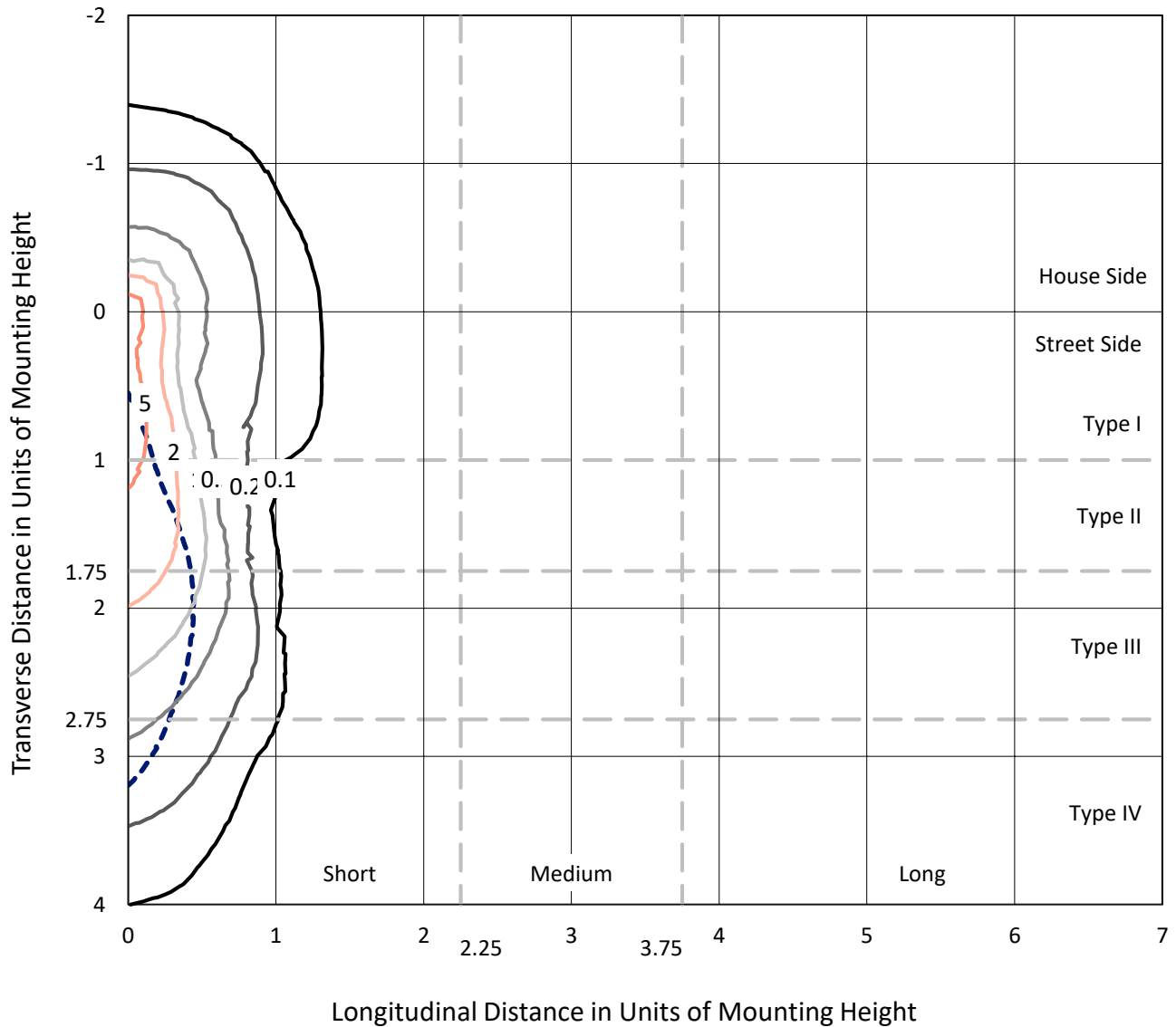


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

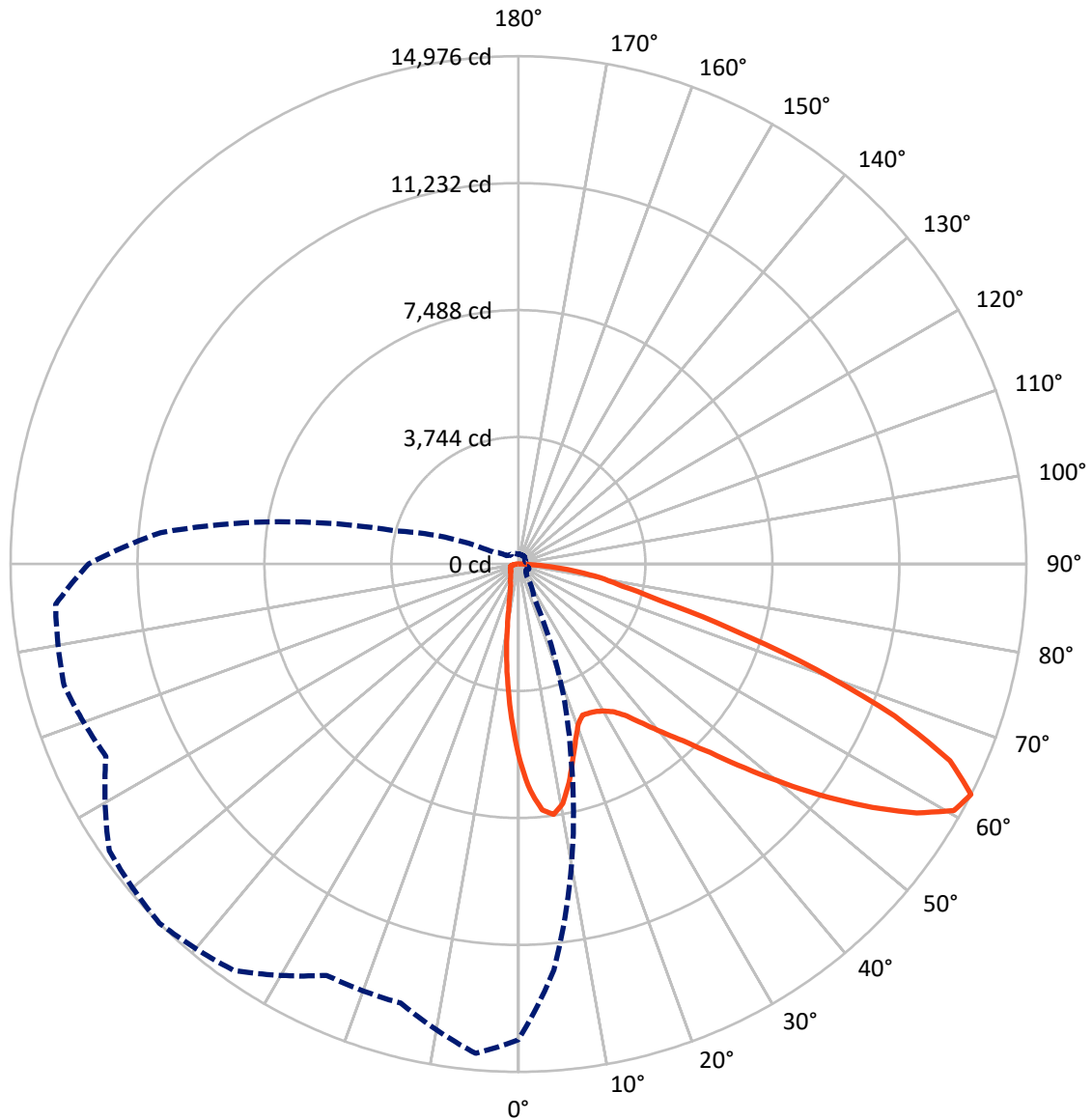


Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Short - Non-Cutoff

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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	2852.5	0.0	2852.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	14384.5	0.0	14384.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	17237.0	0.0	17237.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.9	2.5
10°-20°	777.4	4.5
20°-30°	1133.4	6.6
30°-40°	1745.6	10.1
40°-50°	2569.1	14.9
50°-60°	3768.3	21.9
60°-70°	4212.4	24.4
70°-80°	2062.3	12.0
80°-90°	544.5	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°	17237.0	100.0
0°-180°	17237.0	100.0

Coefficient of Utilization



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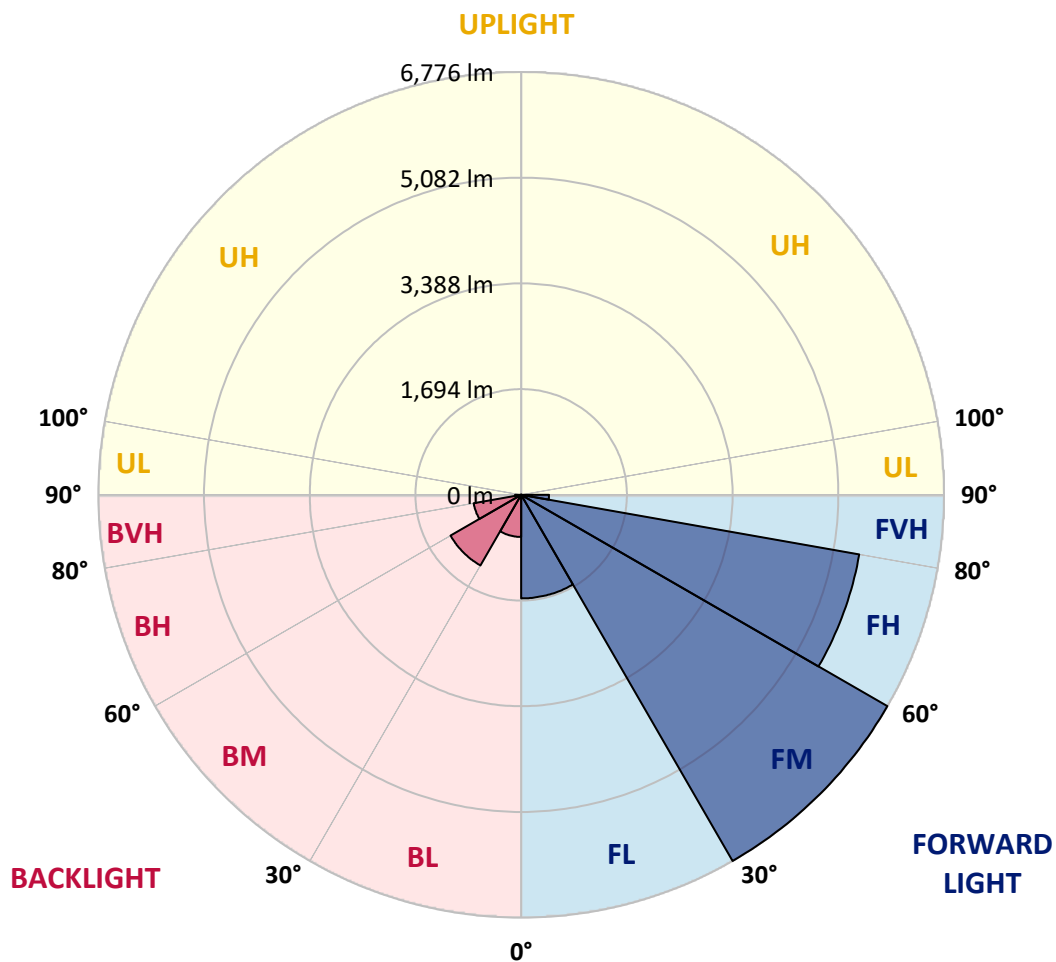
CATALOG NUMBER: GLEON-AF-05-LED-E1-SLR-8030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1659.9	9.6			
FM (30°-60°)	6776.0	39.3			
FH (60°-80°)	5501.5	31.9			G3/7500
FVH (80°-90°)	447.2	2.6			G3/500
BL (0°-30°)	674.9	3.9	B2/1000		
BM (30°-60°)	1307.0	7.6	B2/2500		
BH (60°-80°)	773.3	4.5	B2/1000		G2/1000
BVH (80°-90°)	97.3	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°	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6
2.5°	6051.0	5927.8	5723.1	5510.0	5380.1	5228.5	5110.1	5005.9	4797.4	4756.7	4793.6
5°	5690.0	5442.7	5057.0	4668.5	4409.9	4132.2	3916.2	3742.8	3478.4	3432.0	3487.9
7.5°	5111.0	4815.4	4305.6	3810.1	3444.3	3097.5	2864.4	2678.7	2472.1	2383.1	2388.8
10°	4611.7	4278.1	3675.5	3136.4	2836.9	2602.9	2406.8	2216.3	2006.9	1869.5	1831.6
12.5°	4332.2	3948.4	3253.9	2772.5	2494.9	2248.5	2037.2	1833.5	1609.9	1469.6	1429.8
15°	4283.8	3866.9	3095.6	2539.4	2191.7	1879.9	1630.7	1403.3	1173.1	1059.4	1035.7
17.5°	4493.2	4012.8	3044.4	2331.9	1906.5	1521.8	1215.7	961.8	774.1	717.3	712.6
20°	4895.0	4293.3	3037.8	2136.7	1625.0	1174.0	847.1	662.3	579.9	563.8	564.7
22.5°	5458.8	4728.2	3119.3	1989.8	1366.4	875.5	636.7	554.3	522.1	506.9	506.9
25°	6188.4	5327.1	3306.9	1882.8	1141.8	699.3	561.9	512.6	482.3	471.9	473.8
27.5°	6895.3	5909.8	3524.9	1798.4	994.9	634.9	532.5	488.0	461.5	451.0	455.8
30°	7446.7	6427.2	3706.8	1683.8	920.1	616.8	542.9	497.5	459.6	443.4	444.4
32.5°	7903.4	6880.1	3859.3	1601.3	853.7	528.7	468.1	448.2	443.4	424.5	415.0
35°	8487.1	7373.8	3961.7	1603.2	822.5	471.9	416.9	381.9	356.3	334.5	334.5
37.5°	9171.2	7940.4	4070.6	1625.0	811.1	438.7	398.9	363.9	340.2	319.3	315.5
40°	9847.8	8495.7	4170.1	1645.9	804.5	418.8	384.7	352.5	330.7	309.8	304.2
42.5°	10423.0	8952.4	4259.2	1656.3	781.7	416.9	374.3	344.9	324.1	301.3	295.6
45°	10848.4	9335.2	4354.9	1672.4	759.0	424.5	374.3	344.0	318.4	296.6	290.9
47.5°	11228.4	9784.3	4515.0	1672.4	731.5	410.3	386.6	344.9	317.4	294.7	289.9
50°	11737.2	10400.2	4818.2	1633.6	692.7	395.1	407.4	341.1	308.9	290.9	285.2
52.5°	12438.4	11189.5	5299.6	1566.3	633.0	365.8	404.6	339.2	300.4	281.4	274.8
55°	13267.5	12034.7	5824.5	1487.6	543.9	344.9	390.4	334.5	290.9	270.0	263.4
57.5°	13914.6	12616.5	6194.1	1366.4	466.2	333.5	345.9	329.7	279.5	257.7	252.0
60°	14172.4	12593.8	6295.5	1204.3	428.3	324.1	302.3	369.5	270.0	248.3	241.6
62.5°	14033.1	12012.0	6011.2	1090.6	419.8	311.7	283.3	342.1	262.5	241.6	232.1
65°	13389.7	10981.1	5257.9	1060.3	444.4	299.4	271.0	268.2	252.0	232.1	222.7
67.5°	11988.3	9440.4	4209.9	1063.1	475.7	287.1	258.7	245.4	237.8	221.7	213.2
70°	9764.4	7463.8	3138.3	1070.7	491.8	272.9	245.4	231.2	222.7	206.6	200.9
72.5°	7179.5	5752.5	2279.8	1021.4	494.6	256.8	227.4	215.1	206.6	189.5	184.8
75°	4912.1	4400.4	1581.4	846.2	431.1	234.0	207.5	196.1	190.5	169.6	166.8
77.5°	3588.3	3303.1	1012.0	628.2	332.6	205.6	182.9	174.3	170.6	147.8	144.0
80°	2879.6	2613.3	633.0	430.2	243.5	172.5	153.5	148.8	145.0	122.2	119.4
82.5°	1997.4	1750.1	406.5	279.5	182.9	133.6	121.3	119.4	113.7	92.9	90.0
85°	1053.7	950.4	257.7	190.5	132.7	91.9	84.3	84.3	81.5	61.6	59.7
87.5°	134.6	218.9	130.8	99.5	73.0	40.7	40.7	39.8	42.6	35.1	30.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6
2.5°	4706.4	4751.9	4708.3	4711.2	4759.5	4903.5	4968.9	5022.9	5080.7	5118.6	5135.7
5°	3411.1	3517.3	3553.3	3629.1	3740.9	3924.7	3997.7	4050.7	4085.8	4106.6	4115.2
7.5°	2332.8	2397.3	2469.3	2591.5	2835.0	2943.1	2991.4	2979.1	2939.3	2925.1	2910.8
10°	1758.6	1733.1	1719.8	1787.1	1984.2	2093.1	2127.2	2094.1	2072.3	2077.0	2100.7
12.5°	1362.6	1318.0	1264.0	1256.4	1386.3	1483.8	1505.6	1507.5	1547.3	1582.4	1634.5
15°	993.0	988.3	961.8	945.6	1019.6	1099.1	1108.6	1125.7	1161.7	1187.3	1232.8
17.5°	700.2	725.8	746.7	757.1	813.0	869.8	859.4	850.9	844.3	844.3	866.1
20°	564.7	581.8	608.3	638.6	695.5	735.3	709.7	675.6	651.0	643.4	646.2
22.5°	508.8	522.1	537.3	563.8	615.0	642.4	615.0	590.3	565.7	557.2	554.3
25°	480.4	497.5	511.7	531.6	569.5	588.4	561.9	543.9	528.7	518.3	510.7
27.5°	464.3	479.5	483.2	492.7	524.9	542.0	528.7	521.1	511.7	502.2	492.7
30°	447.2	444.4	437.8	438.7	464.3	481.4	480.4	482.3	481.4	478.5	476.6
32.5°	408.4	402.7	397.0	402.7	426.4	441.6	442.5	446.3	446.3	445.3	452.9
35°	340.2	350.6	357.2	374.3	402.7	416.0	410.3	400.8	383.8	373.3	372.4
37.5°	314.6	316.5	327.8	351.5	382.8	395.1	386.6	364.8	353.4	351.5	354.4
40°	302.3	304.2	310.8	332.6	363.9	376.2	368.6	352.5	342.1	341.1	345.9
42.5°	293.7	295.6	299.4	314.6	340.2	355.3	356.3	344.9	332.6	333.5	338.3
45°	289.0	289.9	289.0	296.6	320.3	338.3	345.9	338.3	327.8	329.7	335.4
47.5°	288.1	285.2	281.4	283.3	308.0	326.0	335.4	332.6	327.8	329.7	334.5
50°	284.3	277.6	272.9	271.9	296.6	315.5	324.1	324.1	326.0	329.7	334.5
52.5°	272.9	265.3	265.3	262.5	289.0	307.0	312.7	313.6	316.5	323.1	329.7
55°	258.7	255.8	258.7	253.9	283.3	300.4	303.2	305.1	307.0	312.7	322.2
57.5°	246.4	242.6	249.2	247.3	278.6	293.7	293.7	297.5	297.5	305.1	312.7
60°	239.7	232.1	235.0	236.9	271.9	288.1	286.2	289.9	291.8	298.5	304.2
62.5°	231.2	224.6	224.6	229.3	264.4	279.5	278.6	281.4	289.0	290.9	296.6
65°	220.8	217.9	215.1	220.8	256.8	270.0	271.0	274.8	281.4	283.3	288.1
67.5°	210.4	211.3	205.6	211.3	250.2	260.6	260.6	268.2	271.0	274.8	279.5
70°	199.0	199.9	195.2	201.8	245.4	250.2	249.2	259.6	261.5	264.4	269.1
72.5°	184.8	184.8	182.9	192.4	237.8	239.7	237.8	246.4	247.3	250.2	252.0
75°	169.6	169.6	167.7	181.0	233.1	228.4	222.7	229.3	231.2	233.1	233.1
77.5°	149.7	151.6	151.6	167.7	217.0	223.6	204.7	208.5	211.3	212.2	209.4
80°	125.1	129.8	131.7	152.6	181.9	206.6	182.9	185.7	186.7	186.7	182.9
82.5°	95.7	104.2	109.0	131.7	139.3	173.4	159.2	162.0	159.2	153.5	151.6
85°	66.3	77.7	83.4	100.4	105.2	133.6	132.7	132.7	127.0	119.4	118.4
87.5°	36.0	42.6	46.4	59.7	72.0	90.0	97.6	94.8	90.0	85.3	86.2
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°	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6
2.5°	5224.7	5353.6	5559.2	5716.5	5874.8	6027.3	6192.2	6318.2	6425.3	6467.0	6593.9
5°	4201.4	4362.5	4556.7	4907.3	5155.6	5429.4	5745.9	6164.7	6325.8	6548.5	6913.3
7.5°	2970.5	3116.5	3429.2	3712.5	4064.0	4451.5	4878.9	5456.9	5668.2	6025.4	6619.5
10°	2218.2	2387.8	2638.9	2877.7	3187.5	3583.6	4074.4	4720.6	4977.4	5365.0	6049.1
12.5°	1787.1	1987.0	2253.3	2477.8	2717.5	2997.1	3473.7	4182.4	4526.4	4865.6	5557.3
15°	1373.0	1582.4	1829.7	2114.9	2379.3	2680.6	3179.9	3955.0	4351.1	4704.5	5294.9
17.5°	950.4	1129.5	1441.2	1738.7	2077.0	2462.7	3098.5	4003.4	4476.2	4883.6	5340.3
20°	673.7	776.0	1031.9	1376.8	1798.4	2282.6	3083.3	4257.3	4872.3	5337.5	5632.2
22.5°	566.6	604.5	753.3	1069.8	1556.8	2148.1	3136.4	4613.6	5406.7	6000.8	6097.4
25°	516.4	539.2	616.8	839.5	1341.7	2050.5	3315.4	5144.2	6068.1	6664.1	6647.0
27.5°	488.9	512.6	563.8	708.8	1179.7	1989.8	3494.5	5773.4	6824.2	7384.2	7171.9
30°	480.4	512.6	566.6	668.0	1064.1	1894.1	3641.4	6325.8	7406.0	7870.3	7410.7
32.5°	473.8	478.5	503.1	576.1	954.2	1782.3	3740.9	6821.3	7975.5	8332.7	7754.7
35°	382.8	406.5	446.3	516.4	889.7	1715.0	3740.9	7248.7	8536.4	8799.8	8082.5
37.5°	368.6	389.4	424.5	484.2	853.7	1681.9	3666.0	7660.9	9109.7	9329.5	8352.6
40°	361.0	378.1	411.2	459.6	838.6	1644.0	3557.1	8024.7	9669.7	9860.1	8604.6
42.5°	355.3	370.5	401.8	444.4	818.7	1602.3	3468.9	8316.6	10155.7	10313.0	8845.3
45°	352.5	368.6	402.7	452.0	778.9	1547.3	3439.6	8632.1	10555.6	10691.1	9105.9
47.5°	352.5	371.4	407.4	468.1	731.5	1490.5	3531.5	9048.1	10933.7	11000.0	9412.9
50°	349.6	370.5	420.7	452.0	662.3	1418.5	3747.5	9572.1	11343.0	11350.6	9801.4
52.5°	344.0	368.6	452.9	442.5	582.7	1323.7	4039.4	10244.8	11948.5	11994.0	10409.7
55°	337.3	365.8	444.4	420.7	517.4	1211.0	4278.1	11062.5	12799.4	12925.4	11304.2
57.5°	328.8	362.0	430.2	390.4	474.7	1066.0	4364.4	11661.4	13393.5	13710.0	12312.3
60°	321.2	359.1	388.5	372.4	448.2	943.8	4197.6	11542.9	13352.7	14035.0	13205.9
62.5°	313.6	362.0	354.4	361.0	435.9	865.1	3761.7	10594.5	12677.2	13699.5	13868.2
65°	305.1	336.4	334.5	351.5	433.0	833.8	3118.4	9172.2	11371.4	12639.2	14024.6
67.5°	293.7	310.8	320.3	339.2	442.5	806.4	2516.7	7566.1	9556.9	11050.2	13209.7
70°	281.4	295.6	306.1	324.1	436.8	794.0	2093.1	5966.7	7583.2	9056.6	11601.7
72.5°	265.3	277.6	287.1	304.2	431.1	787.4	1768.1	4805.0	5661.6	6727.5	9432.8
75°	246.4	257.7	264.4	281.4	413.1	721.1	1390.0	4065.9	4236.5	4679.9	7513.1
77.5°	224.6	233.1	238.8	257.7	365.8	599.8	1005.3	3136.4	3289.9	3397.9	5760.1
80°	199.0	207.5	210.4	228.4	303.2	469.0	655.7	2316.7	2460.8	2485.4	3761.7
82.5°	169.6	178.1	178.1	195.2	248.3	337.3	430.2	1587.1	1615.6	1698.9	2658.8
85°	136.4	143.1	143.1	151.6	192.4	252.0	295.6	796.9	788.4	900.2	2303.5
87.5°	97.6	102.3	107.1	109.0	137.4	166.8	178.1	242.6	160.1	183.8	1479.1
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°	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6	5823.6
2.5°	6689.6	6743.6	6688.7	6648.9	6477.4	6336.2	6147.6	6051.0
5°	7190.9	7328.3	7281.9	7115.1	6756.9	6354.2	5896.5	5690.0
7.5°	7130.2	7449.6	7457.1	7145.4	6617.6	6024.5	5404.8	5111.0
10°	6658.4	7066.8	7183.3	6881.0	6321.0	5657.8	4947.1	4611.7
12.5°	6131.5	6531.4	6620.5	6516.2	6048.2	5382.0	4661.0	4332.2
15°	5700.4	5879.5	5985.6	6076.6	5814.1	5272.1	4644.8	4283.8
17.5°	5437.9	5418.0	5448.4	5606.6	5651.1	5398.1	4891.2	4493.2
20°	5343.2	5039.0	5031.4	5249.4	5574.4	5698.5	5372.6	4895.0
22.5°	5395.3	4902.6	4840.0	5098.7	5615.1	6131.5	6003.6	5458.8
25°	5575.3	4913.9	4863.7	5113.9	5762.9	6593.0	6684.9	6188.4
27.5°	5858.6	4986.0	4919.6	5176.4	5959.1	6980.5	7355.8	6895.3
30°	6127.7	5111.0	5028.6	5299.6	6138.2	7134.0	7767.0	7446.7
32.5°	6454.6	5345.1	5200.1	5526.1	6359.9	7378.5	8133.7	7903.4
35°	6774.9	5678.6	5498.6	5875.7	6607.2	7682.7	8552.5	8487.1
37.5°	7126.5	6114.5	5965.7	6327.7	6945.5	7969.8	9086.9	9171.2
40°	7501.7	6692.5	6516.2	6987.2	7470.4	8329.8	9645.0	9847.8
42.5°	7879.8	7334.0	7123.6	7601.2	8047.5	8685.2	10122.6	10423.0
45°	8312.8	8030.4	7930.9	8447.3	8601.8	9023.4	10475.1	10848.4
47.5°	8816.9	8820.7	8980.8	9187.4	9160.8	9406.2	10829.4	11228.4
50°	9405.3	9807.0	10160.5	10297.9	9736.9	9817.5	11321.2	11737.2
52.5°	10112.2	10986.7	11424.5	11334.5	10357.6	10319.7	12100.1	12438.4
55°	10996.2	12235.6	12670.5	12606.1	11071.1	11003.8	13070.4	13267.5
57.5°	12019.6	13445.6	13845.5	13555.5	11927.6	11754.2	13872.9	13914.6
60°	12918.8	14404.5	14755.1	14433.9	12791.8	12553.0	14374.2	14172.4
62.5°	13419.1	14729.5	14975.9	14630.0	13384.0	13403.9	14484.1	14033.1
65°	13195.5	13908.0	13987.6	13959.2	13231.5	13897.6	14089.0	13389.7
67.5°	11971.2	11831.0	11964.6	12149.4	11923.9	13247.6	12994.6	11988.3
70°	9814.6	9044.3	9310.5	9434.7	9537.0	11399.9	11278.6	9764.4
72.5°	7396.5	6336.2	6546.6	6521.0	6994.7	9143.8	8771.4	7179.5
75°	5240.8	4296.2	4322.7	4312.3	4880.8	7153.9	6351.4	4912.1
77.5°	3667.0	3112.7	3126.9	3185.6	3281.3	5395.3	4537.8	3588.3
80°	2521.4	2362.2	2440.9	2445.6	2274.1	3624.3	3352.4	2879.6
82.5°	1878.0	1642.1	1623.1	1650.6	1782.3	2936.4	2576.4	1997.4
85°	1537.9	972.2	781.7	979.8	1579.6	2908.0	1711.3	1053.7
87.5°	866.1	461.5	208.5	386.6	630.1	1925.4	494.6	134.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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