

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: P193063

Luminaire Tested: **GLEON-AF-05-LED-E1-SLR-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193063
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-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 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: 20430.4 lumens
Efficiency: N/A
Efficacy: 97.3 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 - G4

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



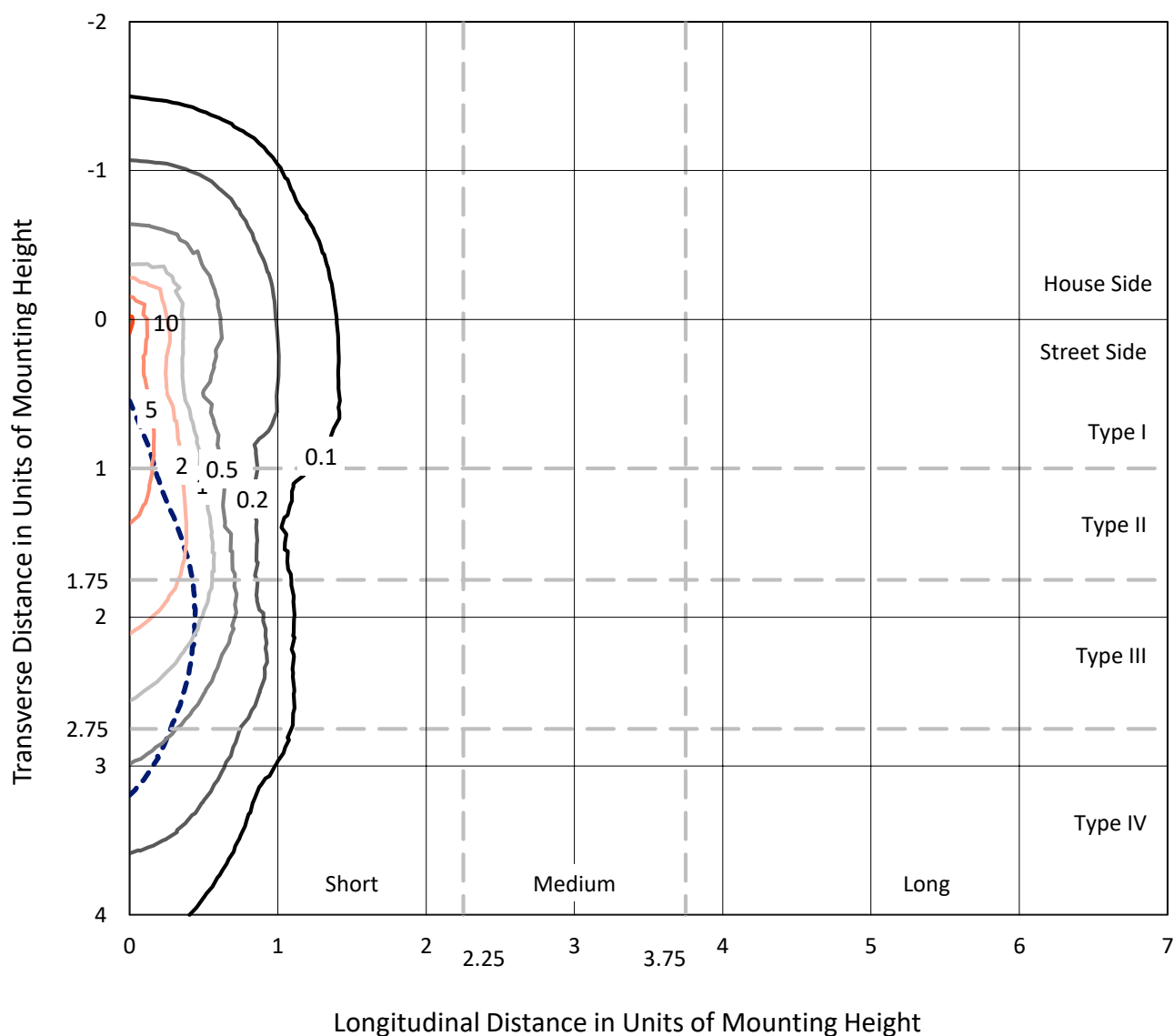
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

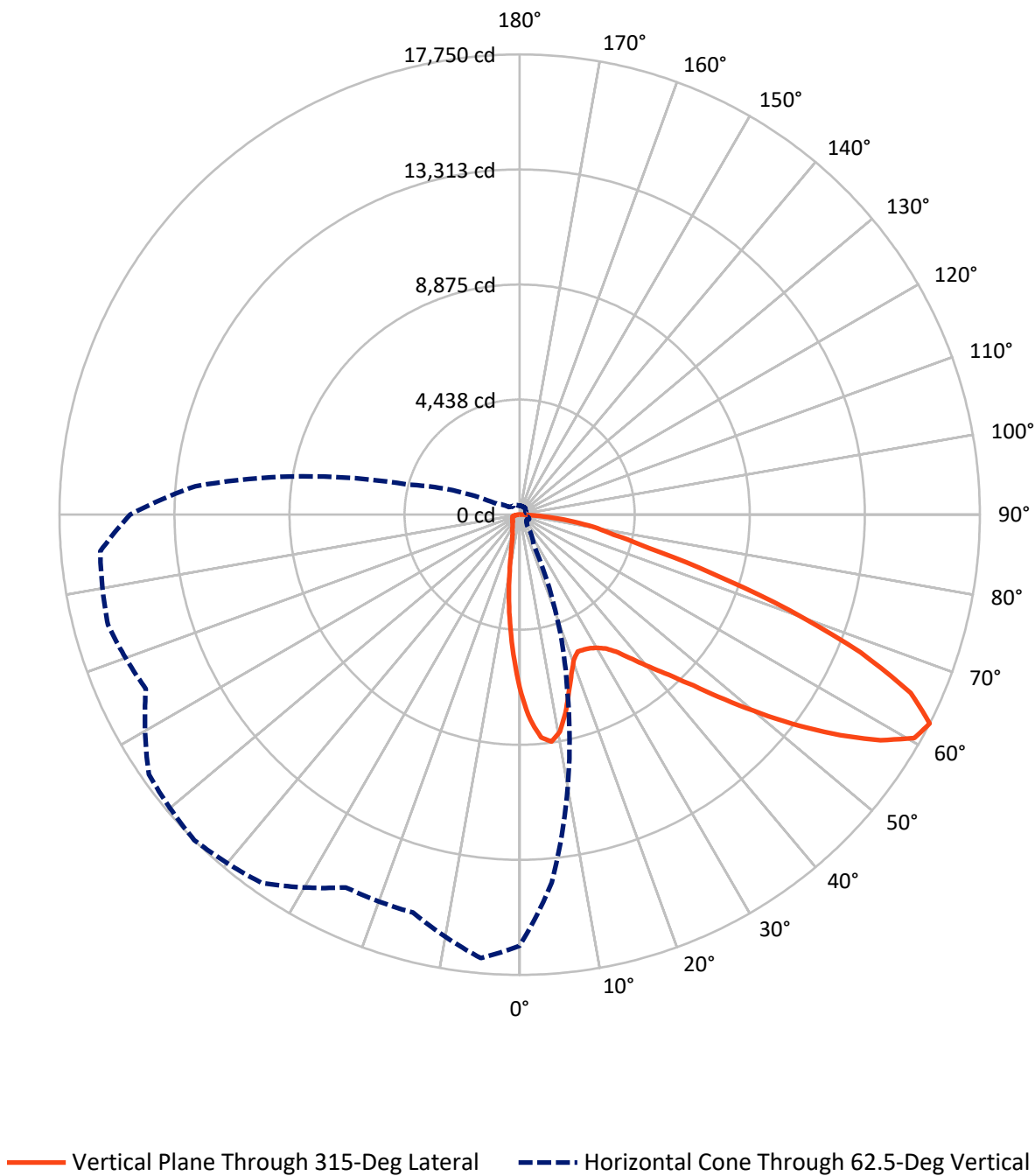


Based on 25 foot mounting height. Maximum calculated value = 11 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3380.9	0.0	3380.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	17049.4	0.0	17049.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	20430.4	0.0	20430.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.5	2.5
10°-20°	921.4	4.5
20°-30°	1343.4	6.6
30°-40°	2069.0	10.1
40°-50°	3045.0	14.9
50°-60°	4466.4	21.9
60°-70°	4992.8	24.4
70°-80°	2444.4	12.0
80°-90°	645.4	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°	20430.4	100.0
0°-180°	20430.4	100.0

Coefficient of Utilization



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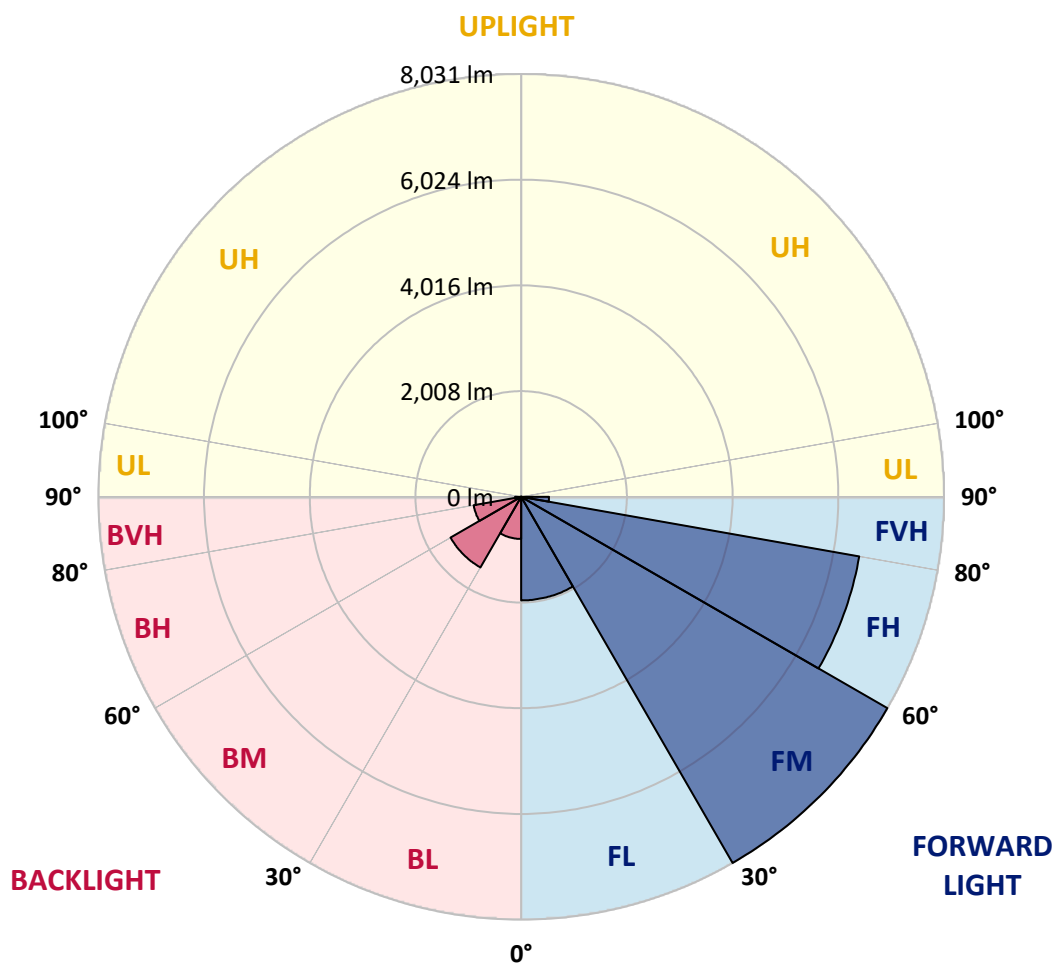
CATALOG NUMBER: GLEON-AF-05-LED-E1-SLR-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1967.4	9.6			
FM	(30°-60°)	8031.4	39.3			
FH	(60°-80°)	6520.7	31.9			G3/7500
FVH	(80°-90°)	530.0	2.6			G4/750
BL	(0°-30°)	799.9	3.9	B2/1000		
BM	(30°-60°)	1549.1	7.6	B2/2500		
BH	(60°-80°)	916.6	4.5	B2/1000		G2/1000
BVH	(80°-90°)	115.4	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5
2.5°	7172.0	7026.0	6783.5	6530.8	6376.9	6197.1	6056.8	5933.3	5686.2	5637.9	5681.7
5°	6744.1	6451.0	5994.0	5533.4	5226.9	4897.8	4641.7	4436.2	4122.9	4067.8	4134.1
7.5°	6057.9	5707.4	5103.3	4515.9	4082.4	3671.3	3395.1	3175.0	2930.2	2824.6	2831.4
10°	5466.0	5070.7	4356.5	3717.4	3362.6	3085.2	2852.6	2626.9	2378.7	2215.9	2170.9
12.5°	5134.7	4679.9	3856.7	3286.2	2957.1	2665.1	2414.6	2173.1	1908.1	1741.9	1694.7
15°	5077.5	4583.3	3669.2	3009.9	2597.7	2228.3	1932.8	1663.3	1390.5	1255.6	1227.5
17.5°	5325.7	4756.3	3608.5	2763.9	2259.7	1803.7	1440.9	1139.9	917.6	850.1	844.6
20°	5801.8	5088.8	3600.6	2532.5	1926.1	1391.5	1004.1	785.0	687.4	668.2	669.3
22.5°	6470.2	5604.2	3697.3	2358.5	1619.4	1037.8	754.8	656.9	618.9	600.8	600.8
25°	7334.9	6314.0	3919.5	2231.6	1353.2	828.8	666.1	607.6	571.7	559.3	561.6
27.5°	8172.7	7004.7	4177.8	2131.6	1179.2	752.5	631.2	578.4	547.0	534.6	540.2
30°	8826.3	7617.9	4393.6	1995.7	1090.5	731.2	643.5	589.7	544.6	525.6	526.7
32.5°	9367.7	8154.7	4574.3	1898.1	1011.8	626.7	554.8	531.2	525.6	503.1	491.8
35°	10059.5	8739.8	4695.6	1900.2	974.8	559.3	494.2	452.6	422.3	396.5	396.5
37.5°	10870.3	9411.5	4824.8	1926.1	961.4	520.0	472.8	431.2	403.1	378.5	374.0
40°	11672.2	10069.6	4942.7	1950.9	953.5	496.4	455.9	417.8	391.9	367.2	360.5
42.5°	12354.0	10610.9	5048.4	1963.2	926.5	494.2	443.6	408.8	384.0	357.2	350.4
45°	12858.1	11064.6	5161.7	1982.3	899.6	503.1	443.6	407.6	377.4	351.5	344.8
47.5°	13308.6	11597.0	5351.5	1982.3	867.0	486.3	458.3	408.8	376.2	349.3	343.6
50°	13911.7	12326.9	5710.9	1936.2	821.0	468.2	482.9	404.3	366.1	344.8	338.0
52.5°	14742.8	13262.6	6281.5	1856.5	750.2	433.5	479.5	402.1	355.9	333.6	325.7
55°	15725.4	14264.4	6903.6	1763.2	644.6	408.8	462.7	396.5	344.8	320.1	312.3
57.5°	16492.4	14953.9	7341.5	1619.4	552.6	395.3	409.9	390.8	331.3	305.5	298.8
60°	16797.9	14926.9	7461.8	1427.5	507.6	384.0	358.3	438.0	320.1	294.2	286.4
62.5°	16632.9	14237.3	7124.9	1292.6	497.5	369.6	335.8	405.5	311.1	286.4	275.2
65°	15870.4	13015.4	6232.0	1256.7	526.7	354.9	321.2	317.8	298.8	275.2	264.0
67.5°	14209.2	11189.4	4989.9	1260.1	563.8	340.4	306.6	290.8	281.9	262.8	252.7
70°	11573.4	8846.5	3719.6	1269.0	582.9	323.4	290.8	274.0	264.0	244.8	238.0
72.5°	8509.6	6818.3	2702.1	1210.7	586.2	304.4	269.6	254.9	244.8	224.6	218.9
75°	5822.1	5215.6	1874.5	1002.9	511.0	277.4	246.0	232.5	225.7	201.0	197.6
77.5°	4253.1	3915.1	1199.4	744.6	394.2	243.7	216.8	206.6	202.1	175.3	170.7
80°	3413.0	3097.5	750.2	509.9	288.7	204.5	181.9	176.4	171.9	144.9	141.5
82.5°	2367.4	2074.3	481.9	331.3	216.8	158.3	143.7	141.5	134.7	110.1	106.7
85°	1248.9	1126.5	305.5	225.7	157.3	108.9	100.0	100.0	96.5	72.9	70.8
87.5°	159.5	259.4	155.0	117.9	86.5	48.3	48.3	47.2	50.6	41.5	35.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5
2.5°	5578.3	5632.4	5580.6	5584.0	5641.3	5811.9	5889.5	5953.4	6022.0	6066.9	6087.2
5°	4043.1	4168.9	4211.6	4301.4	4434.0	4651.8	4738.2	4801.2	4842.7	4867.5	4877.6
7.5°	2765.1	2841.4	2926.7	3071.6	3360.3	3488.3	3545.6	3530.9	3483.8	3467.1	3450.1
10°	2084.4	2054.1	2038.4	2118.1	2351.7	2481.0	2521.3	2482.1	2456.1	2461.8	2489.9
12.5°	1615.0	1562.2	1498.2	1489.2	1643.0	1758.7	1784.5	1786.8	1834.0	1875.6	1937.2
15°	1176.9	1171.4	1139.9	1120.9	1208.4	1302.8	1314.1	1334.3	1376.8	1407.3	1461.2
17.5°	830.0	860.3	885.0	897.3	963.5	1031.0	1018.7	1008.6	1000.7	1000.7	1026.5
20°	669.3	689.5	721.0	756.9	824.4	871.6	841.2	800.8	771.6	762.6	765.9
22.5°	603.1	618.9	636.8	668.2	728.9	761.4	728.9	699.7	670.6	660.4	656.9
25°	569.4	589.7	606.5	630.1	675.0	697.4	666.1	644.6	626.7	614.4	605.3
27.5°	550.3	568.2	572.7	584.0	622.2	642.5	626.7	617.8	606.5	595.3	584.0
30°	530.1	526.7	518.9	520.0	550.3	570.6	569.4	571.7	570.6	567.2	564.9
32.5°	484.0	477.4	470.6	477.4	505.5	523.4	524.5	529.0	529.0	527.8	536.8
35°	403.1	415.5	423.4	443.6	477.4	493.1	486.3	475.1	454.8	442.5	441.4
37.5°	372.9	375.1	388.6	416.8	453.8	468.2	458.3	432.3	418.9	416.8	420.0
40°	358.3	360.5	368.4	394.2	431.2	445.9	436.9	417.8	405.5	404.3	409.9
42.5°	348.2	350.4	354.9	372.9	403.1	421.2	422.3	408.8	394.2	395.3	401.0
45°	342.5	343.6	342.5	351.5	379.5	401.0	409.9	401.0	388.6	390.8	397.6
47.5°	341.4	338.0	333.6	335.8	365.0	386.3	397.6	394.2	388.6	390.8	396.5
50°	336.9	329.1	323.4	322.4	351.5	374.0	384.0	384.0	386.3	390.8	396.5
52.5°	323.4	314.4	314.4	311.1	342.5	363.9	370.6	371.7	375.1	383.0	390.8
55°	306.6	303.2	306.6	301.0	335.8	355.9	359.4	361.6	363.9	370.6	381.9
57.5°	292.0	287.5	295.3	293.2	330.2	348.2	348.2	352.7	352.7	361.6	370.6
60°	284.2	275.2	278.5	280.8	322.4	341.4	339.1	343.6	346.0	353.8	360.5
62.5°	274.0	266.1	266.1	271.8	313.3	331.3	330.2	333.6	342.5	344.8	351.5
65°	261.6	258.3	254.9	261.6	304.4	320.1	321.2	325.7	333.6	335.8	341.4
67.5°	249.3	250.4	243.7	250.4	296.5	308.8	308.8	317.8	321.2	325.7	331.3
70°	235.9	237.0	231.3	239.2	290.8	296.5	295.3	307.7	310.0	313.3	318.9
72.5°	218.9	218.9	216.8	228.1	281.9	284.2	281.9	292.0	293.2	296.5	298.8
75°	201.0	201.0	198.8	214.4	276.3	270.6	264.0	271.8	274.0	276.3	276.3
77.5°	177.4	179.7	179.7	198.8	257.2	265.1	242.5	247.0	250.4	251.7	248.2
80°	148.3	153.8	156.1	180.9	215.7	244.8	216.8	220.1	221.2	221.2	216.8
82.5°	113.4	123.6	129.2	156.1	165.1	205.5	188.7	192.1	188.7	181.9	179.7
85°	78.6	92.1	98.9	119.1	124.7	158.3	157.3	157.3	150.4	141.5	140.4
87.5°	42.7	50.6	55.0	70.8	85.3	106.7	115.7	112.3	106.7	101.1	102.1
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°	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5
2.5°	6192.7	6345.4	6589.1	6775.6	6963.1	7143.9	7339.4	7488.7	7615.7	7665.1	7815.6
5°	4979.7	5170.7	5400.9	5816.4	6110.8	6435.3	6810.3	7306.8	7497.7	7761.7	8194.0
7.5°	3520.9	3693.8	4064.5	4400.2	4816.9	5276.2	5782.8	6467.8	6718.4	7141.7	7845.9
10°	2629.1	2830.2	3127.8	3410.8	3778.0	4247.6	4829.3	5595.1	5899.6	6358.9	7169.8
12.5°	2118.1	2355.1	2670.8	2936.9	3221.0	3552.3	4117.2	4957.3	5364.9	5767.0	6586.9
15°	1627.3	1875.6	2168.7	2506.7	2820.1	3177.3	3769.1	4687.8	5157.2	5576.1	6275.9
17.5°	1126.5	1338.8	1708.2	2060.8	2461.8	2918.9	3672.5	4745.0	5305.4	5788.3	6329.7
20°	798.4	919.9	1223.0	1631.9	2131.6	2705.5	3654.5	5046.0	5774.9	6326.3	6675.6
22.5°	671.6	716.5	892.8	1268.0	1845.3	2546.1	3717.4	5468.3	6408.3	7112.4	7227.1
25°	612.1	639.0	731.2	995.1	1590.3	2430.4	3929.7	6097.2	7192.2	7898.7	7878.4
27.5°	579.5	607.6	668.2	840.1	1398.2	2358.5	4141.9	6843.0	8088.5	8752.2	8500.6
30°	569.4	607.6	671.6	791.8	1261.2	2245.1	4316.1	7497.7	8778.0	9328.3	8783.7
32.5°	561.6	567.2	596.3	682.9	1131.0	2112.5	4434.0	8085.0	9453.0	9876.4	9191.3
35°	453.8	481.9	529.0	612.1	1054.6	2032.8	4434.0	8591.6	10117.9	10430.1	9580.0
37.5°	436.9	461.6	503.1	573.9	1011.8	1993.4	4345.2	9080.1	10797.3	11057.9	9900.0
40°	427.9	448.1	487.4	544.6	993.9	1948.5	4216.1	9511.4	11461.1	11686.8	10198.7
42.5°	421.2	439.1	476.2	526.7	970.3	1899.2	4111.7	9857.4	12037.2	12223.7	10484.0
45°	417.8	436.9	477.4	535.7	923.1	1834.0	4076.8	10231.4	12511.2	12671.8	10792.8
47.5°	417.8	440.2	482.9	554.8	867.0	1766.6	4185.7	10724.4	12959.2	13037.9	11156.7
50°	414.4	439.1	498.7	535.7	785.0	1681.3	4441.8	11345.4	13444.5	13453.4	11617.2
52.5°	407.6	436.9	536.8	524.5	690.7	1569.0	4787.7	12142.8	14162.0	14216.0	12338.2
55°	399.8	433.5	526.7	498.7	613.2	1435.3	5070.7	13111.9	15170.6	15320.0	13398.5
57.5°	389.7	429.1	509.9	462.7	562.6	1263.5	5172.9	13821.9	15874.9	16249.9	14593.4
60°	380.8	425.7	460.4	441.4	531.2	1118.6	4975.2	13681.5	15826.5	16635.2	15652.5
62.5°	371.7	429.1	420.0	427.9	516.6	1025.4	4458.7	12557.2	15025.8	16237.6	16437.5
65°	361.6	398.7	396.5	416.8	513.3	988.4	3696.0	10871.6	13478.1	14980.9	16622.8
67.5°	348.2	368.4	379.5	402.1	524.5	955.8	2982.9	8967.9	11327.5	13097.5	15657.0
70°	333.6	350.4	362.7	384.0	517.8	941.2	2481.0	7072.1	8988.1	10734.5	13751.1
72.5°	314.4	329.1	340.4	360.5	511.0	933.3	2095.7	5695.1	6710.4	7974.0	11180.3
75°	292.0	305.5	313.3	333.6	489.7	854.6	1647.5	4819.2	5021.3	5546.9	8904.9
77.5°	266.1	276.3	283.0	305.5	433.5	710.9	1191.6	3717.4	3899.4	4027.4	6827.3
80°	235.9	246.0	249.3	270.6	359.4	555.9	777.2	2745.9	2916.6	2945.8	4458.7
82.5°	201.0	211.1	211.1	231.3	294.2	399.8	509.9	1881.1	1914.9	2013.6	3151.4
85°	161.7	169.6	169.6	179.7	228.1	298.8	350.4	944.5	934.3	1066.9	2730.2
87.5°	115.7	121.3	127.0	129.2	162.8	197.6	211.1	287.5	189.8	217.9	1753.2
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5
2.5°	7929.0	7993.0	7927.9	7880.7	7677.4	7510.1	7286.6	7172.0
5°	8523.1	8685.9	8630.9	8433.2	8008.7	7531.5	6989.0	6744.1
7.5°	8451.2	8829.7	8838.6	8469.2	7843.6	7140.5	6406.1	6057.9
10°	7891.9	8376.0	8514.1	8155.8	7492.1	6705.9	5863.6	5466.0
12.5°	7267.5	7741.4	7847.0	7723.4	7168.6	6379.1	5524.4	5134.7
15°	6756.5	6968.8	7094.5	7202.4	6891.3	6248.9	5505.3	5077.5
17.5°	6445.4	6421.8	6457.8	6645.2	6698.1	6398.2	5797.4	5325.7
20°	6333.1	5972.5	5963.6	6221.9	6607.1	6754.2	6367.8	5801.8
22.5°	6394.8	5810.9	5736.7	6043.3	6655.4	7267.5	7115.8	6470.2
25°	6608.2	5824.3	5764.8	6061.2	6830.6	7814.4	7923.4	7334.9
27.5°	6944.1	5909.8	5831.0	6135.5	7063.1	8273.7	8718.6	8172.7
30°	7263.0	6057.9	5960.2	6281.5	7275.3	8455.7	9205.9	8826.3
32.5°	7650.5	6335.3	6163.6	6549.9	7538.2	8745.4	9640.6	9367.7
35°	8030.1	6730.7	6517.4	6964.3	7831.2	9106.0	10137.0	10059.5
37.5°	8446.8	7247.2	7070.9	7500.0	8232.2	9446.2	10770.3	10870.3
40°	8891.5	7932.3	7723.4	8281.7	8854.4	9873.0	11431.9	11672.2
42.5°	9339.6	8692.6	8443.3	9009.4	9538.4	10294.2	11998.0	12354.0
45°	9852.8	9518.1	9400.2	10012.3	10195.4	10695.2	12415.6	12858.1
47.5°	10450.3	10454.8	10644.6	10889.5	10857.9	11149.0	12835.8	13308.6
50°	11147.7	11624.0	12042.9	12205.7	11540.8	11636.3	13418.6	13911.7
52.5°	11985.5	13022.2	13541.0	13434.3	12276.5	12231.6	14341.8	14742.8
55°	13033.4	14502.4	15017.9	14941.5	13122.1	13042.4	15491.9	15725.4
57.5°	14246.4	15936.5	16410.5	16066.9	14137.4	13931.8	16443.1	16492.4
60°	15312.1	17073.2	17488.7	17108.0	15161.7	14878.6	17037.3	16797.9
62.5°	15905.1	17458.3	17750.4	17340.4	15863.6	15887.2	17167.5	16632.9
65°	15640.1	16484.7	16579.0	16545.3	15682.7	16472.3	16699.1	15870.4
67.5°	14189.1	14022.9	14181.2	14400.3	14132.9	15701.8	15402.0	14209.2
70°	11633.0	10719.9	11035.4	11182.5	11303.9	13511.9	13368.1	11573.4
72.5°	8766.9	7510.1	7759.4	7729.1	8290.6	10837.8	10396.4	8509.6
75°	6211.8	5092.0	5123.5	5111.1	5785.1	8479.3	7528.1	5822.1
77.5°	4346.4	3689.3	3706.2	3775.8	3889.2	6394.8	5378.5	4253.1
80°	2988.6	2799.9	2893.0	2898.6	2695.4	4295.8	3973.4	3413.0
82.5°	2225.9	1946.4	1923.8	1956.4	2112.5	3480.5	3053.7	2367.4
85°	1822.8	1152.2	926.5	1161.3	1872.1	3446.8	2028.3	1248.9
87.5°	1026.5	547.0	247.0	458.3	746.9	2282.1	586.2	159.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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