

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: P194661

Luminaire Tested: **GLEON-AF-03-LED-E1-SLR-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194661
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-03-LED-E1-SLR-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 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: 12903 lumens
Efficiency: N/A
Efficacy: 104.1 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): 124
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

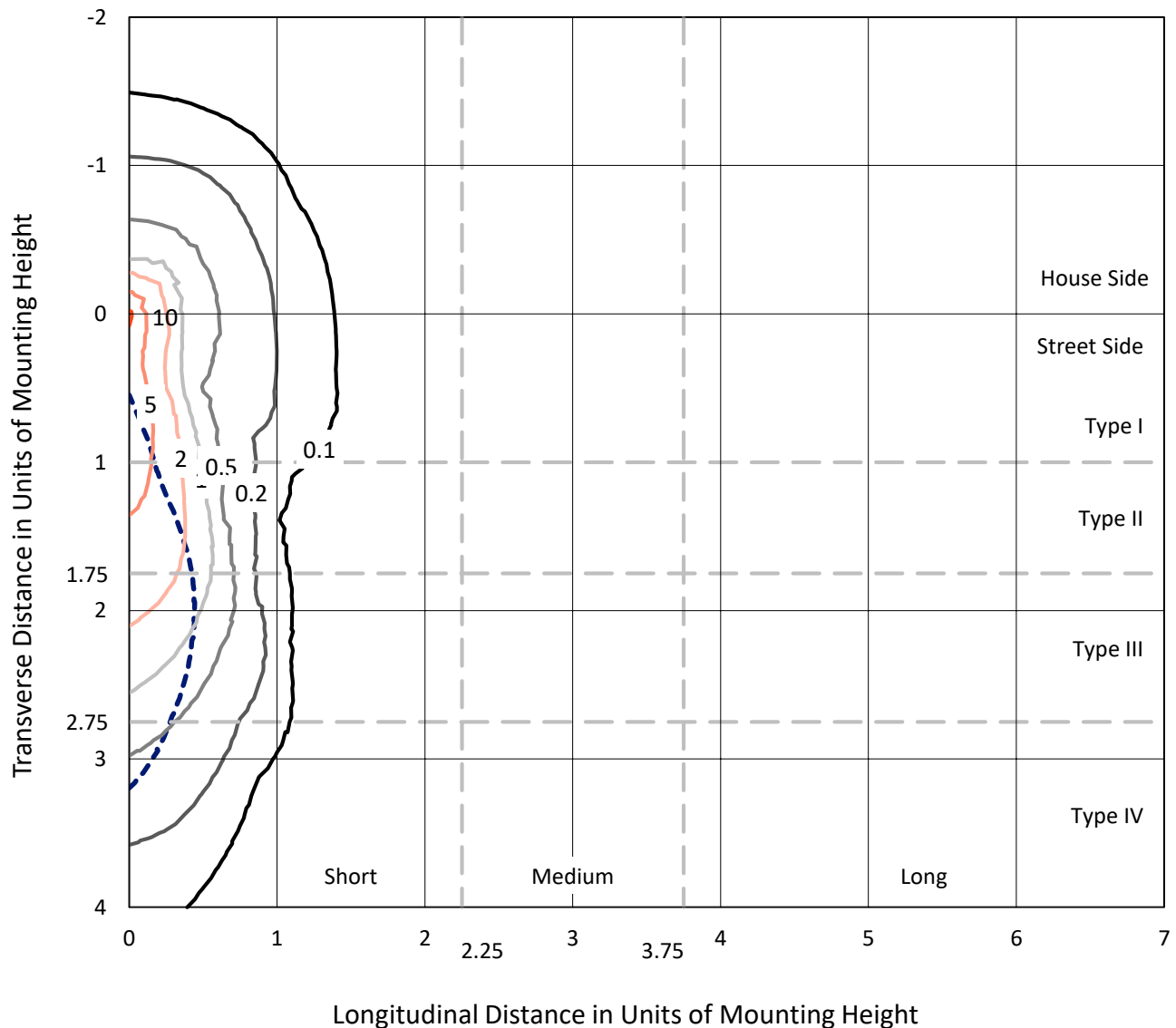


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

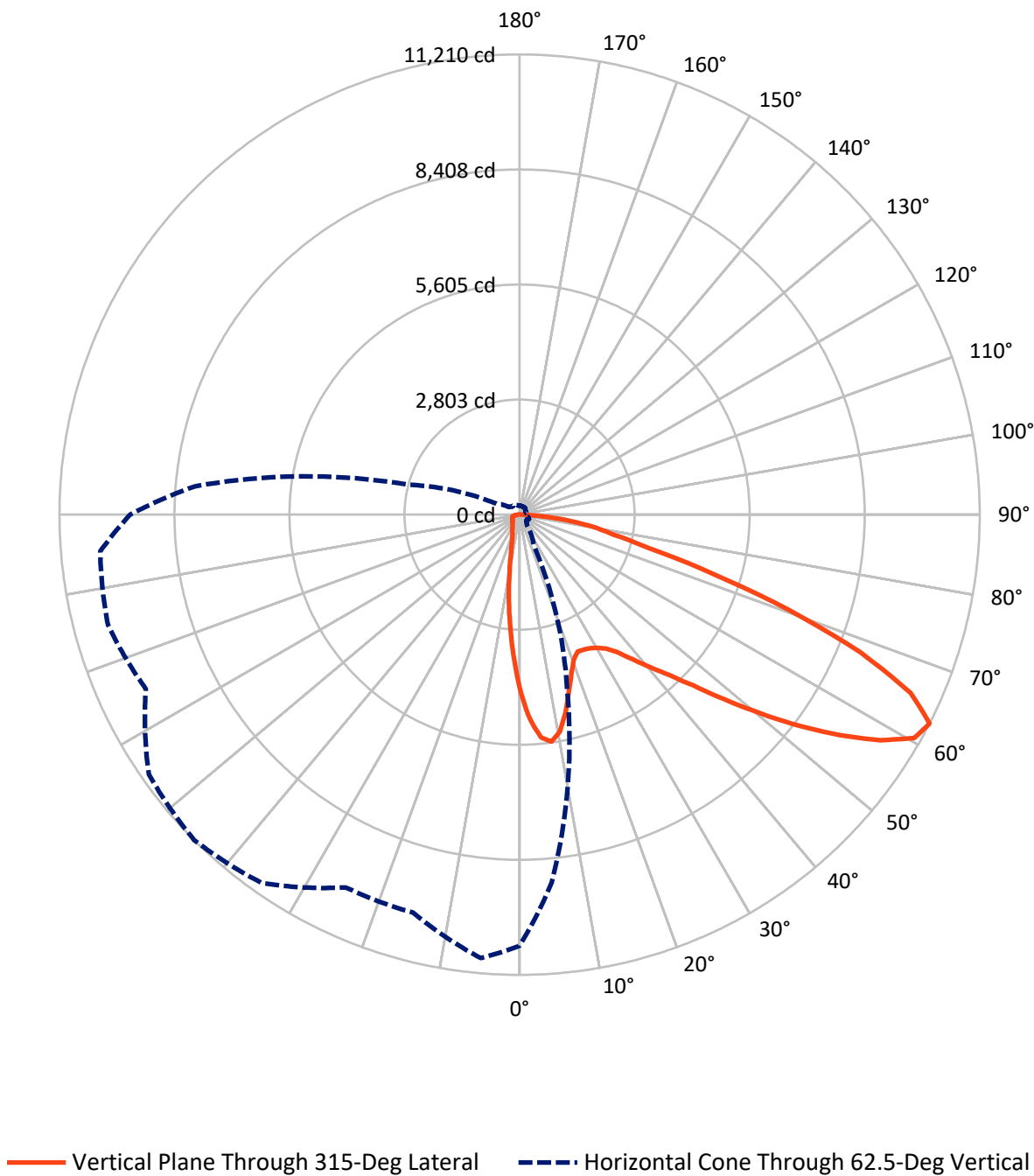


Based on 20 foot mounting height. Maximum calculated value = 10.9 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2135.3	0.0	2135.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	10767.7	0.0	10767.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	12903.0	0.0	12903.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.3	2.5
10°-20°	581.9	4.5
20°-30°	848.4	6.6
30°-40°	1306.7	10.1
40°-50°	1923.1	14.9
50°-60°	2820.8	21.9
60°-70°	3153.3	24.4
70°-80°	1543.8	12.0
80°-90°	407.6	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°	12903.0	100.0
0°-180°	12903.0	100.0

Coefficient of Utilization



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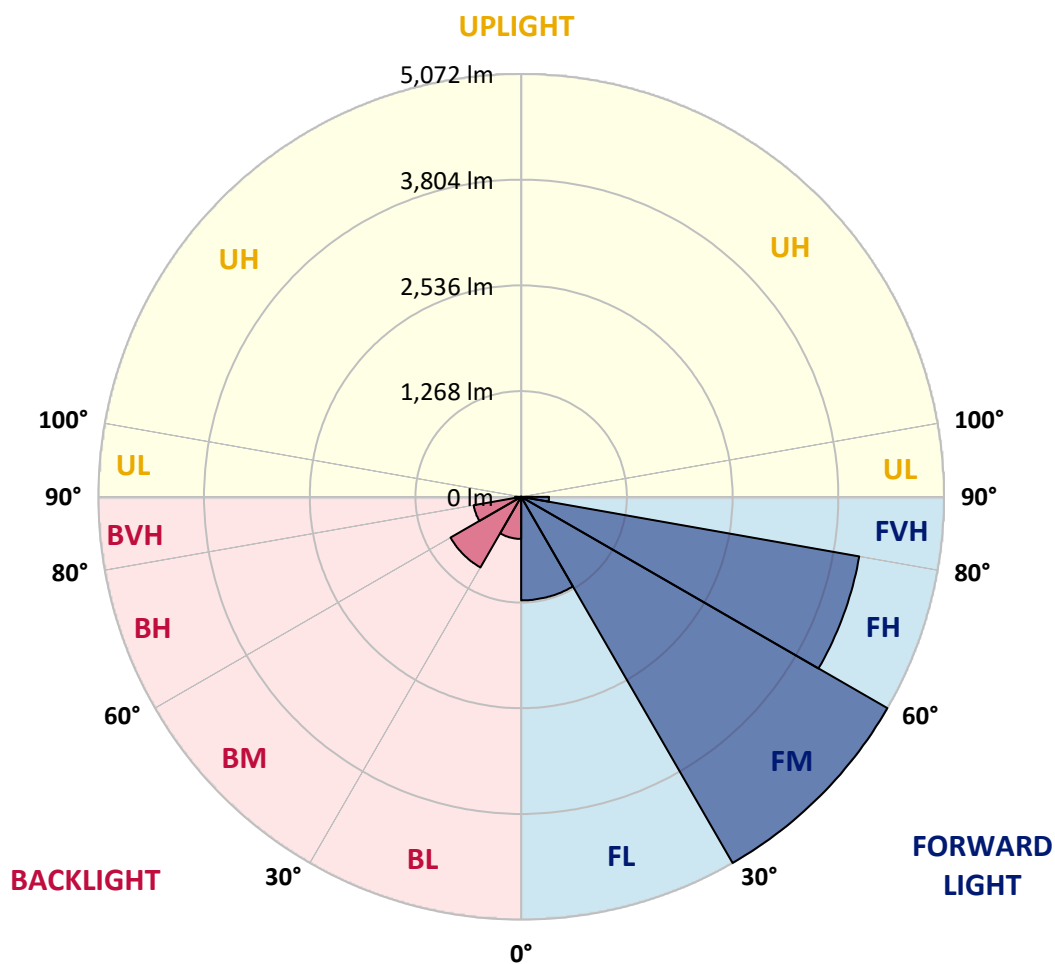
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1242.5	9.6			
FM	(30°-60°)	5072.3	39.3			
FH	(60°-80°)	4118.2	31.9			G2/5000
FVH	(80°-90°)	334.7	2.6			G3/500
BL	(0°-30°)	505.2	3.9	B2/1000		
BM	(30°-60°)	978.4	7.6	B1/1000		
BH	(60°-80°)	578.9	4.5	B2/1000		G2/1000
BVH	(80°-90°)	72.9	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°	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3
2.5°	4529.6	4437.4	4284.1	4124.6	4027.4	3913.9	3825.2	3747.2	3591.2	3560.7	3588.3
5°	4259.3	4074.2	3785.5	3494.7	3301.1	3093.2	2931.5	2801.7	2603.8	2569.1	2610.9
7.5°	3825.9	3604.6	3223.0	2852.1	2578.3	2318.7	2144.2	2005.2	1850.6	1783.9	1788.1
10°	3452.1	3202.5	2751.4	2347.8	2123.6	1948.4	1801.6	1659.0	1502.3	1399.4	1371.1
12.5°	3242.9	2955.6	2435.7	2075.4	1867.6	1683.2	1525.0	1372.5	1205.1	1100.1	1070.3
15°	3206.7	2894.6	2317.3	1900.9	1640.6	1407.2	1220.7	1050.5	878.1	793.0	775.3
17.5°	3363.5	3003.9	2279.0	1745.6	1427.1	1139.1	910.0	719.9	579.5	536.9	533.4
20°	3664.2	3213.8	2274.0	1599.5	1216.4	878.8	634.1	495.8	434.1	422.0	422.7
22.5°	4086.2	3539.4	2335.0	1489.5	1022.8	655.4	476.6	414.9	390.8	379.5	379.5
25°	4632.4	3987.7	2475.4	1409.4	854.7	523.5	420.6	383.7	361.0	353.2	354.6
27.5°	5161.5	4423.9	2638.6	1346.2	744.8	475.2	398.6	365.3	345.4	337.6	341.2
30°	5574.4	4811.1	2774.8	1260.4	688.7	461.8	406.4	372.4	344.0	332.0	332.7
32.5°	5916.2	5150.2	2889.0	1198.7	639.1	395.8	350.4	335.5	332.0	317.8	310.7
35°	6353.2	5519.7	2965.6	1200.1	615.7	353.2	312.1	285.8	266.7	250.4	250.4
37.5°	6865.3	5943.9	3047.1	1216.4	607.2	328.4	298.6	272.4	254.6	239.0	236.2
40°	7371.7	6359.5	3121.6	1232.0	602.2	313.5	288.0	263.9	247.5	231.9	227.7
42.5°	7802.2	6701.4	3188.3	1239.8	585.2	312.1	280.2	258.2	242.6	225.6	221.3
45°	8120.7	6988.0	3259.9	1251.9	568.1	317.8	280.2	257.5	238.3	222.0	217.8
47.5°	8405.1	7324.2	3379.8	1251.9	547.6	307.1	289.4	258.2	237.6	220.6	217.0
50°	8786.0	7785.2	3606.8	1222.8	518.5	295.8	305.0	255.3	231.2	217.8	213.5
52.5°	9310.9	8376.1	3967.1	1172.5	473.8	273.8	302.9	253.9	224.8	210.7	205.7
55°	9931.6	9008.8	4360.0	1113.6	407.1	258.2	292.2	250.4	217.8	202.1	197.2
57.5°	10416.0	9444.3	4636.7	1022.8	349.0	249.7	258.9	246.8	209.2	192.9	188.7
60°	10608.9	9427.2	4712.6	901.5	320.6	242.6	226.3	276.6	202.1	185.8	180.9
62.5°	10504.7	8991.7	4499.8	816.4	314.2	233.4	212.1	256.1	196.5	180.9	173.8
65°	10023.1	8220.0	3935.9	793.7	332.7	224.1	202.9	200.7	188.7	173.8	166.7
67.5°	8974.0	7066.7	3151.4	795.8	356.1	214.9	193.6	183.7	178.0	166.0	159.6
70°	7309.3	5587.1	2349.2	801.5	368.1	204.3	183.7	173.1	166.7	154.6	150.4
72.5°	5374.3	4306.1	1706.6	764.6	370.3	192.2	170.2	161.0	154.6	141.9	138.3
75°	3677.0	3294.0	1183.8	633.4	322.7	175.2	155.3	146.8	142.6	127.0	124.8
77.5°	2686.1	2472.6	757.5	470.3	249.0	153.9	136.9	130.5	127.7	110.7	107.8
80°	2155.5	1956.2	473.8	322.0	182.3	129.1	114.9	111.4	108.5	91.5	89.4
82.5°	1495.2	1310.1	304.3	209.2	136.9	100.0	90.8	89.4	85.1	69.5	67.4
85°	788.7	711.4	192.9	142.6	99.3	68.8	63.1	63.1	61.0	46.1	44.7
87.5°	100.7	163.8	97.9	74.5	54.6	30.5	30.5	29.8	31.9	26.2	22.7
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°	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3
2.5°	3523.1	3557.1	3524.5	3526.6	3562.8	3670.6	3719.5	3760.0	3803.2	3831.6	3844.4
5°	2553.5	2632.9	2659.9	2716.6	2800.3	2937.9	2992.5	3032.2	3058.5	3074.1	3080.5
7.5°	1746.3	1794.5	1848.4	1939.9	2122.2	2203.1	2239.2	2230.0	2200.2	2189.6	2179.0
10°	1316.5	1297.3	1287.4	1337.7	1485.3	1566.8	1592.4	1567.5	1551.2	1554.8	1572.5
12.5°	1020.0	986.6	946.2	940.5	1037.7	1110.8	1127.1	1128.5	1158.3	1184.5	1223.5
15°	743.3	739.8	719.9	707.9	763.2	822.8	829.9	842.6	869.6	888.7	922.8
17.5°	524.2	543.3	558.9	566.7	608.6	651.1	643.3	636.9	632.0	632.0	648.3
20°	422.7	435.5	455.4	478.1	520.6	550.4	531.3	505.7	487.3	481.6	483.7
22.5°	380.9	390.8	402.2	422.0	460.3	480.9	460.3	441.9	423.4	417.1	414.9
25°	359.6	372.4	383.0	397.9	426.3	440.5	420.6	407.1	395.8	388.0	382.3
27.5°	347.6	358.9	361.7	368.8	392.9	405.7	395.8	390.1	383.0	375.9	368.8
30°	334.8	332.7	327.7	328.4	347.6	360.3	359.6	361.0	360.3	358.2	356.8
32.5°	305.7	301.5	297.2	301.5	319.2	330.5	331.2	334.1	334.1	333.4	339.0
35°	254.6	262.4	267.4	280.2	301.5	311.4	307.1	300.0	287.3	279.5	278.8
37.5°	235.5	236.9	245.4	263.1	286.6	295.8	289.4	273.1	264.6	263.1	265.3
40°	226.3	227.7	232.6	249.0	272.4	281.6	275.9	263.9	256.1	255.3	258.9
42.5°	219.9	221.3	224.1	235.5	254.6	266.0	266.7	258.2	249.0	249.7	253.2
45°	216.3	217.0	216.3	222.0	239.7	253.2	258.9	253.2	245.4	246.8	251.1
47.5°	215.6	213.5	210.7	212.1	230.5	244.0	251.1	249.0	245.4	246.8	250.4
50°	212.8	207.8	204.3	203.6	222.0	236.2	242.6	242.6	244.0	246.8	250.4
52.5°	204.3	198.6	198.6	196.5	216.3	229.8	234.1	234.8	236.9	241.9	246.8
55°	193.6	191.5	193.6	190.1	212.1	224.8	227.0	228.4	229.8	234.1	241.2
57.5°	184.4	181.6	186.5	185.1	208.5	219.9	219.9	222.7	222.7	228.4	234.1
60°	179.5	173.8	175.9	177.3	203.6	215.6	214.2	217.0	218.5	223.4	227.7
62.5°	173.1	168.1	168.1	171.6	197.9	209.2	208.5	210.7	216.3	217.8	222.0
65°	165.3	163.1	161.0	165.3	192.2	202.1	202.9	205.7	210.7	212.1	215.6
67.5°	157.5	158.2	153.9	158.2	187.3	195.1	195.1	200.7	202.9	205.7	209.2
70°	149.0	149.7	146.1	151.1	183.7	187.3	186.5	194.3	195.8	197.9	201.4
72.5°	138.3	138.3	136.9	144.0	178.0	179.5	178.0	184.4	185.1	187.3	188.7
75°	127.0	127.0	125.5	135.5	174.5	170.9	166.7	171.6	173.1	174.5	174.5
77.5°	112.1	113.5	113.5	125.5	162.4	167.4	153.2	156.0	158.2	158.9	156.8
80°	93.6	97.2	98.6	114.2	136.2	154.6	136.9	139.0	139.7	139.7	136.9
82.5°	71.6	78.0	81.6	98.6	104.3	129.8	119.2	121.3	119.2	114.9	113.5
85°	49.7	58.2	62.4	75.2	78.7	100.0	99.3	99.3	95.0	89.4	88.7
87.5°	27.0	31.9	34.8	44.7	53.9	67.4	73.1	70.9	67.4	63.8	64.5
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3
2.5°	3911.1	4007.5	4161.4	4279.2	4397.6	4511.8	4635.2	4729.6	4809.7	4840.9	4936.0
5°	3145.0	3265.6	3411.0	3673.4	3859.3	4064.3	4301.2	4614.7	4735.3	4901.9	5175.0
7.5°	2223.6	2332.9	2566.9	2779.0	3042.2	3332.3	3652.2	4084.8	4243.0	4510.4	4955.1
10°	1660.5	1787.4	1975.4	2154.1	2386.1	2682.6	3050.0	3533.7	3725.9	4016.0	4528.1
12.5°	1337.7	1487.4	1686.7	1854.8	2034.3	2243.5	2600.3	3130.8	3388.3	3642.2	4160.0
15°	1027.8	1184.5	1369.6	1583.1	1781.0	2006.6	2380.4	2960.6	3257.1	3521.7	3963.5
17.5°	711.4	845.5	1078.8	1301.6	1554.8	1843.5	2319.4	2996.8	3350.7	3655.7	3997.6
20°	504.3	580.9	772.4	1030.6	1346.2	1708.7	2308.0	3186.9	3647.2	3995.5	4216.1
22.5°	424.2	452.5	563.9	800.8	1165.4	1608.0	2347.8	3453.6	4047.2	4492.0	4564.3
25°	386.6	403.6	461.8	628.4	1004.4	1534.9	2481.8	3850.8	4542.3	4988.5	4975.7
27.5°	366.0	383.7	422.0	530.6	883.1	1489.5	2615.9	4321.7	5108.3	5527.5	5368.7
30°	359.6	383.7	424.2	500.1	796.5	1417.9	2725.8	4735.3	5543.9	5891.4	5547.4
32.5°	354.6	358.2	376.6	431.3	714.3	1334.2	2800.3	5106.2	5970.1	6237.5	5804.9
35°	286.6	304.3	334.1	386.6	666.0	1283.8	2800.3	5426.1	6390.0	6587.2	6050.3
37.5°	275.9	291.5	317.8	362.4	639.1	1259.0	2744.3	5734.7	6819.2	6983.7	6252.4
40°	270.2	283.0	307.8	344.0	627.7	1230.6	2662.7	6007.0	7238.4	7380.9	6441.1
42.5°	266.0	277.3	300.7	332.7	612.8	1199.4	2596.7	6225.5	7602.2	7720.0	6621.3
45°	263.9	275.9	301.5	338.3	583.0	1158.3	2574.7	6461.7	7901.5	8003.0	6816.3
47.5°	263.9	278.0	305.0	350.4	547.6	1115.7	2643.5	6773.1	8184.6	8234.2	7046.1
50°	261.7	277.3	314.9	338.3	495.8	1061.8	2805.3	7165.3	8491.0	8496.6	7336.9
52.5°	257.5	275.9	339.0	331.2	436.2	990.9	3023.7	7668.9	8944.2	8978.3	7792.3
55°	252.5	273.8	332.7	314.9	387.3	906.5	3202.5	8281.0	9581.2	9675.5	8461.9
57.5°	246.1	271.0	322.0	292.2	355.4	798.0	3267.0	8729.3	10025.9	10262.8	9216.6
60°	240.5	268.8	290.8	278.8	335.5	706.5	3142.2	8640.6	9995.4	10506.1	9885.4
62.5°	234.8	271.0	265.3	270.2	326.3	647.6	2815.9	7930.6	9489.7	10255.0	10381.2
65°	228.4	251.8	250.4	263.1	324.1	624.2	2334.3	6866.0	8512.3	9461.3	10498.3
67.5°	219.9	232.6	239.7	253.9	331.2	603.6	1883.9	5663.7	7154.0	8271.8	9888.3
70°	210.7	221.3	229.1	242.6	327.0	594.4	1566.8	4466.4	5676.5	6779.4	8684.6
72.5°	198.6	207.8	214.9	227.7	322.7	589.4	1323.5	3596.8	4238.0	5036.0	7061.0
75°	184.4	192.9	197.9	210.7	309.3	539.8	1040.5	3043.6	3171.3	3503.2	5624.0
77.5°	168.1	174.5	178.7	192.9	273.8	449.0	752.6	2347.8	2462.7	2543.5	4311.8
80°	149.0	155.3	157.5	170.9	227.0	351.1	490.8	1734.2	1842.0	1860.5	2815.9
82.5°	127.0	133.3	133.3	146.1	185.8	252.5	322.0	1188.1	1209.3	1271.8	1990.3
85°	102.1	107.1	107.1	113.5	144.0	188.7	221.3	596.5	590.1	673.8	1724.3
87.5°	73.1	76.6	80.2	81.6	102.8	124.8	133.3	181.6	119.9	137.6	1107.2
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°	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3
2.5°	5007.6	5048.1	5006.9	4977.1	4848.7	4743.1	4601.9	4529.6
5°	5382.8	5485.7	5450.9	5326.1	5058.0	4756.5	4413.9	4259.3
7.5°	5337.4	5576.5	5582.2	5348.8	4953.7	4509.7	4045.8	3825.9
10°	4984.2	5289.9	5377.2	5150.9	4731.7	4235.2	3703.2	3452.1
12.5°	4589.8	4889.2	4955.8	4877.8	4527.4	4028.8	3489.0	3242.9
15°	4267.1	4401.2	4480.6	4548.7	4352.2	3946.5	3477.0	3206.7
17.5°	4070.6	4055.8	4078.4	4196.9	4230.2	4040.9	3661.4	3363.5
20°	3999.7	3772.0	3766.4	3929.5	4172.8	4265.7	4021.7	3664.2
22.5°	4038.7	3669.9	3623.1	3816.7	4203.3	4589.8	4494.1	4086.2
25°	4173.5	3678.4	3640.8	3828.1	4313.9	4935.3	5004.1	4632.4
27.5°	4385.6	3732.3	3682.7	3874.9	4460.8	5225.4	5506.3	5161.5
30°	4587.0	3825.9	3764.2	3967.1	4594.8	5340.3	5814.1	5574.4
32.5°	4831.7	4001.1	3892.6	4136.6	4760.8	5523.3	6088.6	5916.2
35°	5071.5	4250.8	4116.0	4398.3	4945.9	5751.0	6402.1	6353.2
37.5°	5334.6	4577.1	4465.7	4736.7	5199.1	5965.9	6802.1	6865.3
40°	5615.5	5009.8	4877.8	5230.3	5592.1	6235.4	7219.9	7371.7
42.5°	5898.5	5489.9	5332.5	5690.0	6024.0	6501.4	7577.4	7802.2
45°	6222.6	6011.3	5936.8	6323.4	6439.0	6754.6	7841.3	8120.7
47.5°	6600.0	6602.8	6722.7	6877.3	6857.5	7041.2	8106.5	8405.1
50°	7040.5	7341.2	7605.8	7708.6	7288.7	7349.0	8474.7	8786.0
52.5°	7569.6	8224.3	8552.0	8484.6	7753.3	7724.9	9057.7	9310.9
55°	8231.4	9159.1	9484.7	9436.5	8287.4	8237.0	9784.0	9931.6
57.5°	8997.4	10064.9	10364.2	10147.2	8928.6	8798.8	10384.8	10416.0
60°	9670.5	10782.7	11045.1	10804.7	9575.5	9396.7	10760.0	10608.9
62.5°	10045.0	11026.0	11210.4	10951.5	10018.8	10033.7	10842.3	10504.7
65°	9877.6	10411.0	10470.6	10449.3	9904.6	10403.2	10546.5	10023.1
67.5°	8961.2	8856.3	8956.3	9094.6	8925.8	9916.7	9727.3	8974.0
70°	7346.9	6770.2	6969.5	7062.5	7139.1	8533.5	8442.7	7309.3
72.5°	5536.8	4743.1	4900.5	4881.4	5236.0	6844.7	6565.9	5374.3
75°	3923.1	3215.9	3235.8	3228.0	3653.6	5355.2	4754.4	3677.0
77.5°	2745.0	2330.0	2340.7	2384.7	2456.3	4038.7	3396.8	2686.1
80°	1887.4	1768.3	1827.1	1830.7	1702.3	2713.1	2509.5	2155.5
82.5°	1405.8	1229.2	1215.0	1235.6	1334.2	2198.1	1928.6	1495.2
85°	1151.2	727.7	585.2	733.4	1182.4	2176.8	1281.0	788.7
87.5°	648.3	345.4	156.0	289.4	471.7	1441.3	370.3	100.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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