

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: P299474

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194679)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-04-LED-E1-SLR-7030-600
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Right OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13401.9 lumens
Efficiency: N/A
Efficacy: 103.9 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

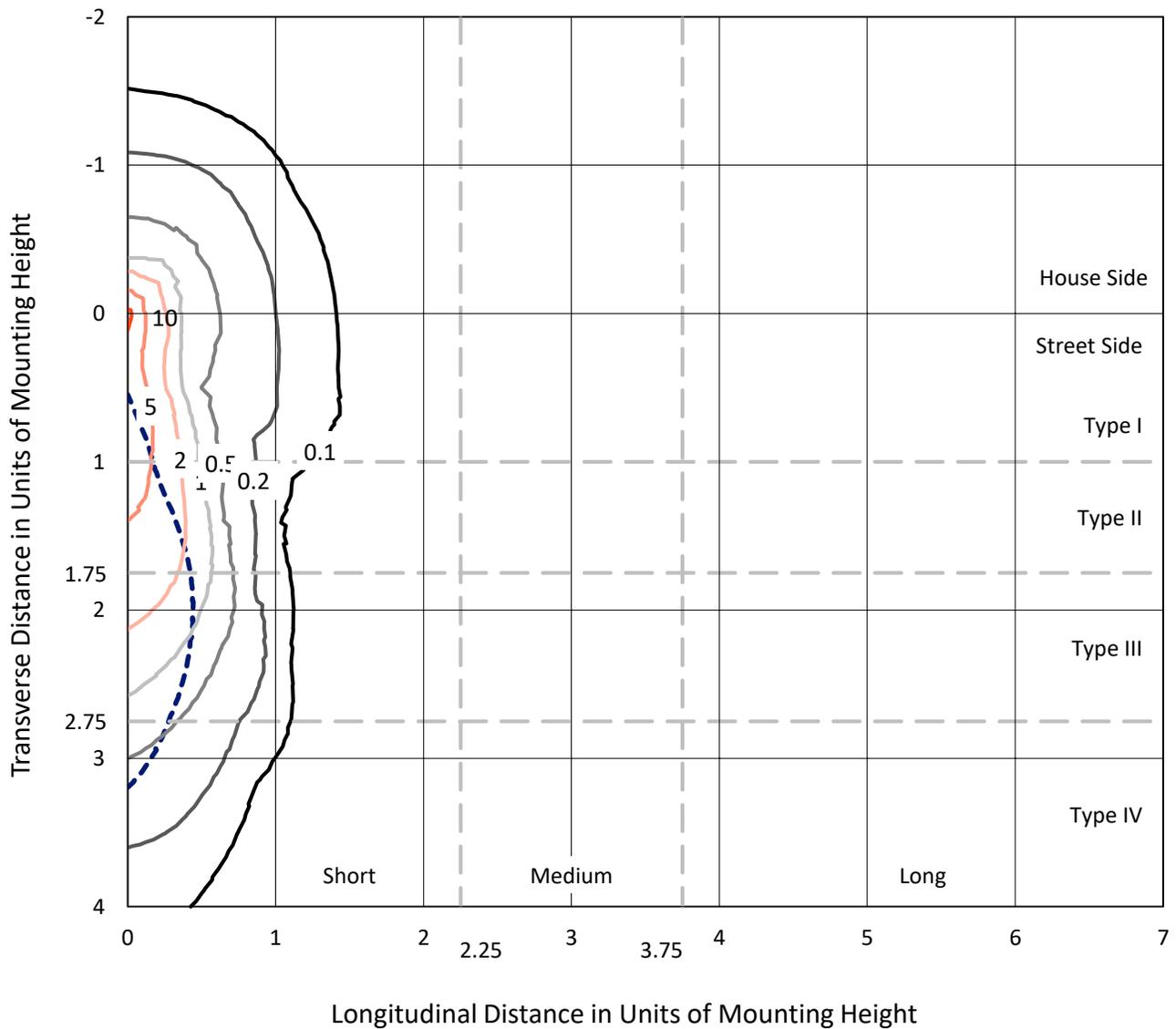


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Iso-Footcandle Lines of Horizontal Illumination

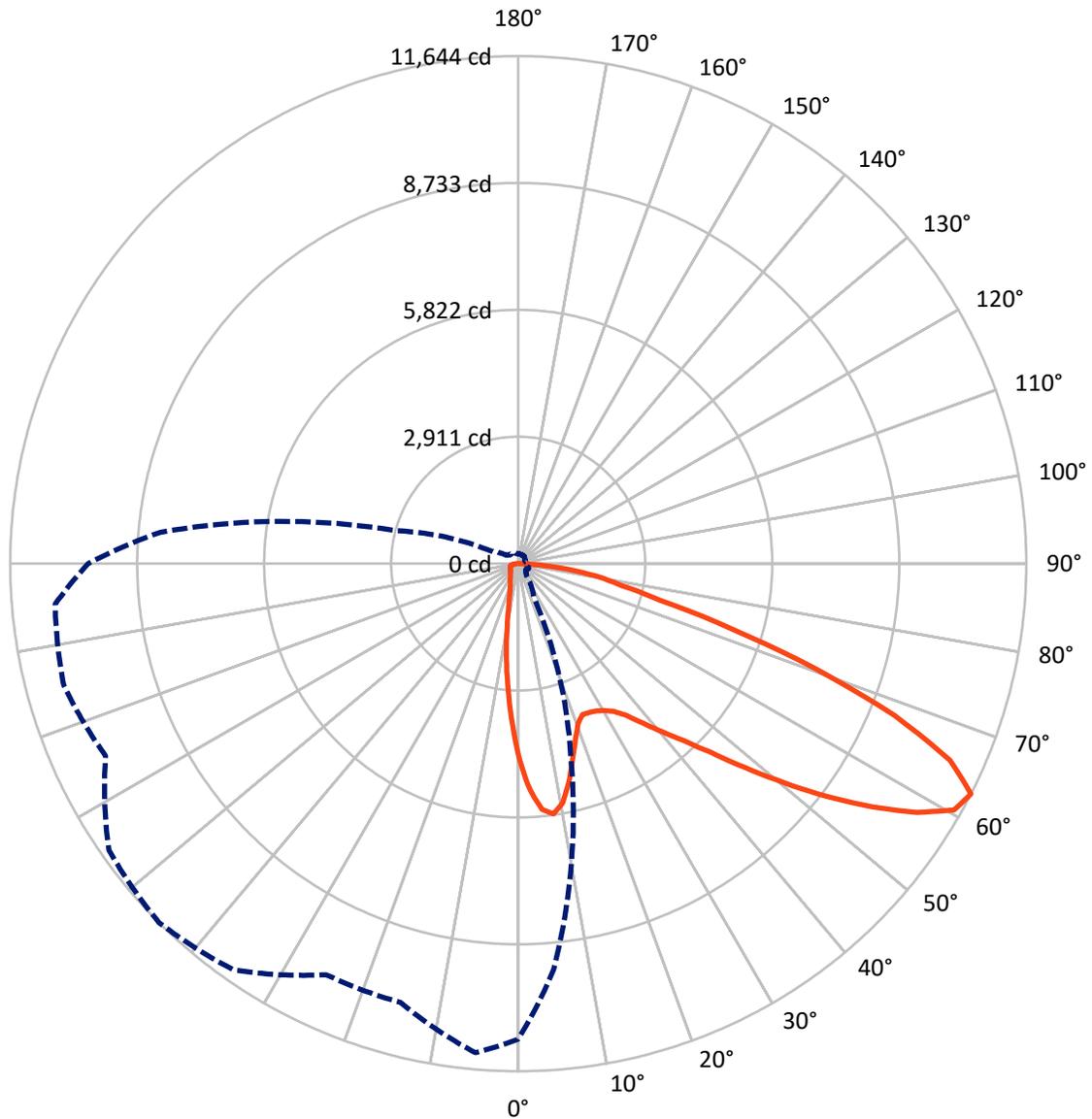
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.3 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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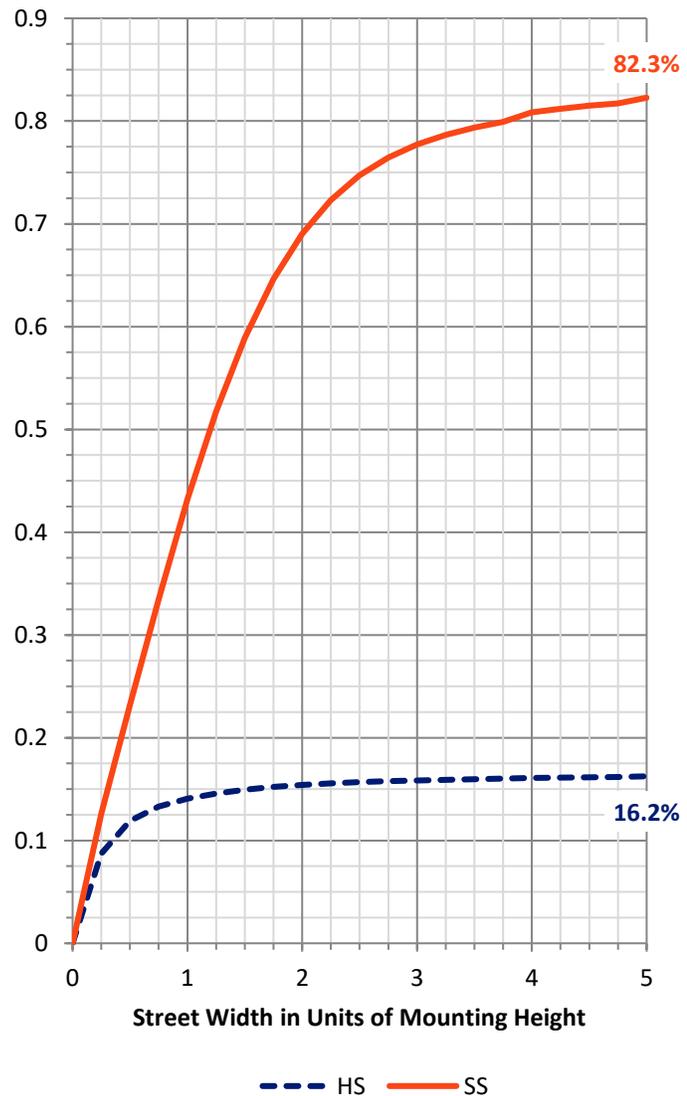
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2217.8	0.0	2217.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	11184.1	0.0	11184.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	13401.9	0.0	13401.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.6	2.5
10°-20°	604.4	4.5
20°-30°	881.2	6.6
30°-40°	1357.2	10.1
40°-50°	1997.5	14.9
50°-60°	2929.9	21.9
60°-70°	3275.2	24.4
70°-80°	1603.5	12.0
80°-90°	423.4	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°	13401.9	100.0
0°-180°	13401.9	100.0



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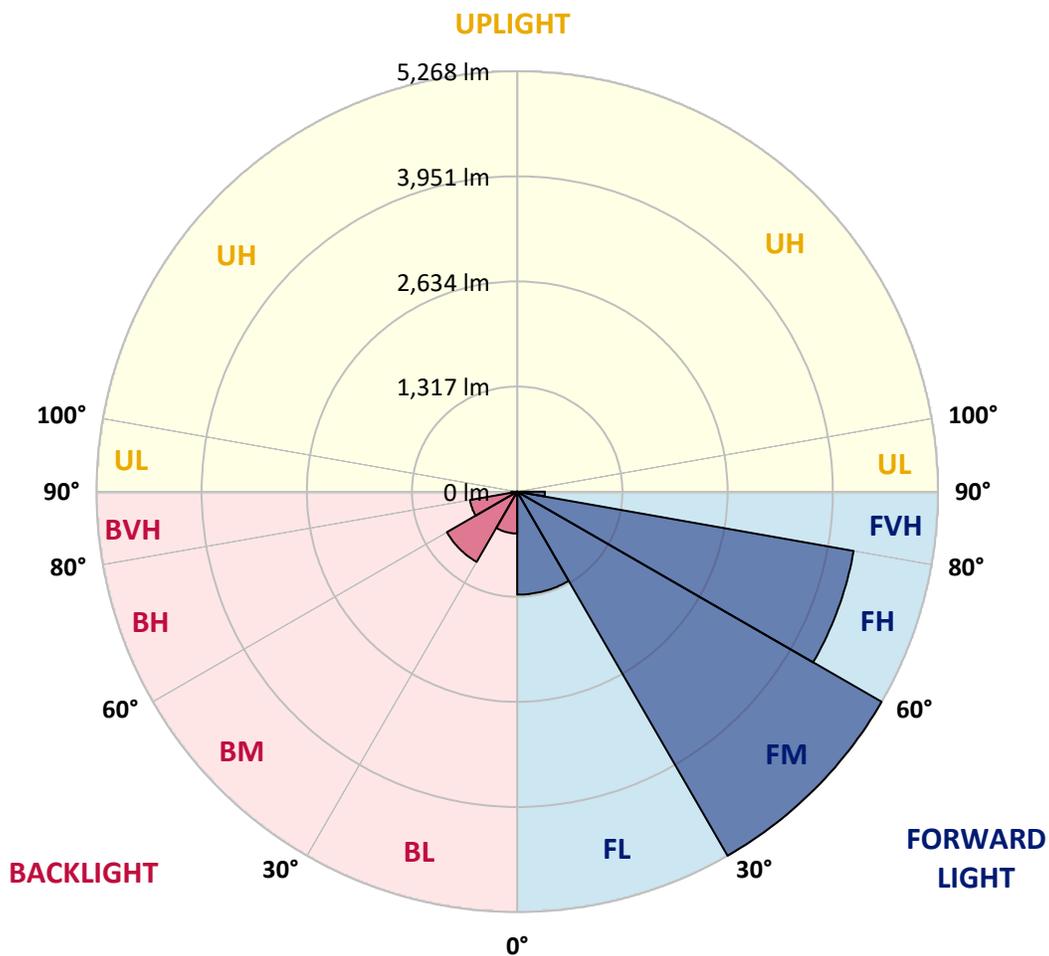
CATALOG NUMBER: GLNA-AF-04-LED-E1-SLR-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1290.6	9.6			
FM (30°-60°)	5268.4	39.3			
FH (60°-80°)	4277.4	31.9			G2/5000
FVH (80°-90°)	347.7	2.6			G3/500
BL (0°-30°)	524.7	3.9	B2/1000		
BM (30°-60°)	1016.2	7.6	B2/2500		
BH (60°-80°)	601.3	4.5	B2/1000		G2/1000
BVH (80°-90°)	75.7	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°	4528.0	4528.0	4528.0	4528.0	4528.0	4528.0	4528.0	4528.0	4528.0	4528.0	4528.0
2.5°	4704.6	4608.9	4449.7	4284.0	4183.2	4065.2	3973.1	3892.1	3730.0	3698.3	3727.1
5°	4424.0	4231.8	3931.8	3629.8	3428.6	3212.7	3044.8	2910.1	2704.5	2668.3	2711.8
7.5°	3974.0	3744.0	3347.7	2962.3	2677.9	2408.3	2227.2	2082.7	1922.1	1852.9	1857.2
10°	3585.7	3326.3	2857.7	2438.6	2205.8	2023.8	1871.2	1723.1	1560.3	1453.5	1424.0
12.5°	3368.2	3070.0	2529.8	2155.6	1939.7	1748.3	1584.0	1425.6	1251.6	1142.6	1111.8
15°	3330.7	3006.4	2406.9	1974.5	1703.9	1461.7	1267.9	1091.1	912.0	823.7	805.1
17.5°	3493.5	3120.0	2367.0	1813.0	1482.3	1183.2	945.2	747.8	602.0	557.8	554.0
20°	3805.8	3338.1	2361.9	1661.4	1263.5	912.9	658.6	515.0	451.0	438.3	439.1
22.5°	4244.3	3676.2	2425.2	1547.2	1062.3	680.7	495.1	430.9	405.9	394.1	394.1
25°	4811.4	4141.9	2571.1	1464.0	887.7	543.7	436.9	398.6	374.9	366.9	368.4
27.5°	5361.2	4594.9	2740.6	1398.4	773.5	493.6	413.9	379.4	358.9	350.6	354.4
30°	5789.9	4997.2	2882.0	1309.2	715.3	479.5	422.2	386.7	357.3	344.8	345.5
32.5°	6144.9	5349.4	3000.6	1245.0	663.7	411.0	364.0	348.4	344.8	330.1	322.7
35°	6598.8	5733.2	3080.3	1246.5	639.4	366.9	324.1	296.9	277.0	260.1	260.1
37.5°	7130.7	6173.7	3165.0	1263.5	630.7	341.0	310.2	282.8	264.5	248.2	245.3
40°	7656.6	6605.5	3242.4	1279.7	625.4	325.6	299.1	274.1	257.2	240.9	236.4
42.5°	8104.0	6960.5	3311.6	1287.8	607.8	324.1	291.1	268.1	252.0	234.2	229.9
45°	8434.8	7258.1	3386.0	1300.3	590.1	330.1	291.1	267.4	247.6	230.6	226.2
47.5°	8730.1	7607.3	3510.5	1300.3	568.7	318.9	300.6	268.1	246.9	229.1	225.5
50°	9125.7	8086.2	3746.2	1270.2	538.6	307.1	316.7	265.2	240.2	226.2	221.7
52.5°	9670.8	8700.0	4120.5	1217.7	492.2	284.4	314.5	263.8	233.5	218.8	213.7
55°	10315.6	9357.0	4528.6	1156.6	422.9	268.1	303.5	260.1	226.2	209.9	204.7
57.5°	10818.7	9809.3	4815.9	1062.3	362.4	259.4	269.0	256.5	217.2	200.3	196.0
60°	11019.0	9791.7	4894.8	936.3	333.0	252.0	235.1	287.3	209.9	192.9	187.8
62.5°	10910.9	9339.4	4673.8	848.0	326.3	242.4	220.4	265.9	204.1	187.8	180.4
65°	10410.6	8537.8	4088.1	824.3	345.5	232.8	210.8	208.5	196.0	180.4	173.1
67.5°	9320.9	7339.9	3273.2	826.5	369.8	223.3	201.2	190.9	184.9	172.4	165.7
70°	7591.9	5803.2	2439.9	832.6	382.3	212.1	190.9	179.8	173.1	160.6	156.1
72.5°	5582.2	4472.6	1772.6	794.2	384.5	199.6	176.9	167.3	160.6	147.4	143.6
75°	3819.2	3421.3	1229.6	657.9	335.2	182.0	161.3	152.6	148.1	131.8	129.6
77.5°	2789.9	2568.2	786.9	488.4	258.5	159.9	142.3	135.6	132.7	114.9	112.0
80°	2239.0	2031.8	492.2	334.5	189.4	134.0	119.3	115.8	112.6	95.0	92.8
82.5°	1553.0	1360.7	316.0	217.2	142.3	103.9	94.3	92.8	88.3	72.3	70.0
85°	819.2	738.9	200.3	148.1	103.0	71.4	65.6	65.6	63.3	48.0	46.4
87.5°	104.6	170.2	101.7	77.4	56.6	31.7	31.7	31.0	33.2	27.2	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°	4528.0	4528.0	4528.0	4528.0	4528.0	4528.0	4528.0	4528.0	4528.0	4528.0	4528.0
2.5°	3659.3	3694.7	3660.8	3663.0	3700.5	3812.5	3863.3	3905.3	3950.3	3979.7	3992.9
5°	2652.3	2734.8	2762.7	2821.6	2908.5	3051.5	3108.1	3149.4	3176.8	3192.9	3199.6
7.5°	1813.9	1863.9	1919.8	2014.9	2204.2	2288.3	2325.8	2316.2	2285.4	2274.2	2263.3
10°	1367.4	1347.5	1337.1	1389.5	1542.7	1627.5	1654.0	1628.1	1611.2	1615.0	1633.2
12.5°	1059.4	1024.8	982.9	976.9	1077.9	1153.7	1170.7	1172.0	1203.0	1230.2	1270.8
15°	772.1	768.3	747.8	735.3	792.6	854.7	862.0	875.2	903.3	923.1	958.4
17.5°	544.4	564.3	580.5	588.6	632.1	676.2	668.2	661.5	656.4	656.4	673.3
20°	439.1	452.3	473.0	496.5	540.8	571.6	551.8	525.2	506.1	500.3	502.5
22.5°	395.7	405.9	417.7	438.3	478.2	499.6	478.2	459.0	439.8	433.1	430.9
25°	373.6	386.7	397.9	413.3	442.7	457.4	436.9	422.9	411.0	403.0	397.0
27.5°	361.1	372.7	375.8	383.2	408.1	421.3	411.0	405.2	397.9	390.5	383.2
30°	347.7	345.5	340.3	341.0	361.1	374.2	373.6	374.9	374.2	372.0	370.7
32.5°	317.6	313.1	308.7	313.1	331.4	343.2	344.1	347.0	347.0	346.4	352.2
35°	264.5	272.5	277.7	291.1	313.1	323.4	318.9	311.6	298.4	290.2	289.5
37.5°	244.7	246.0	254.9	273.2	297.7	307.1	300.6	283.7	274.8	273.2	275.4
40°	235.1	236.4	241.5	258.5	282.8	292.4	286.6	274.1	265.9	265.2	269.0
42.5°	228.4	229.9	232.8	244.7	264.5	276.3	277.0	268.1	258.5	259.4	263.0
45°	224.6	225.5	224.6	230.6	248.9	263.0	269.0	263.0	254.9	256.5	260.7
47.5°	223.9	221.7	218.8	220.4	239.5	253.4	260.7	258.5	254.9	256.5	260.1
50°	221.0	215.9	212.1	211.4	230.6	245.3	252.0	252.0	253.4	256.5	260.1
52.5°	212.1	206.3	206.3	204.1	224.6	238.6	243.1	243.8	246.0	251.1	256.5
55°	201.2	198.9	201.2	197.4	220.4	233.5	235.7	237.3	238.6	243.1	250.5
57.5°	191.6	188.7	193.8	192.3	216.6	228.4	228.4	231.3	231.3	237.3	243.1
60°	186.5	180.4	182.7	184.2	211.4	223.9	222.6	225.5	226.8	232.2	236.4
62.5°	179.8	174.6	174.6	178.2	205.6	217.2	216.6	218.8	224.6	226.2	230.6
65°	171.7	169.5	167.3	171.7	199.6	209.9	210.8	213.7	218.8	220.4	223.9
67.5°	163.5	164.4	159.9	164.4	194.5	202.5	202.5	208.5	210.8	213.7	217.2
70°	154.8	155.5	151.7	157.0	190.9	194.5	193.8	201.8	203.4	205.6	209.2
72.5°	143.6	143.6	142.3	149.7	184.9	186.5	184.9	191.6	192.3	194.5	196.0
75°	131.8	131.8	130.5	140.7	181.3	177.5	173.1	178.2	179.8	181.3	181.3
77.5°	116.4	118.0	118.0	130.5	168.6	174.0	159.0	162.1	164.4	165.0	162.8
80°	97.2	101.0	102.4	118.7	141.4	160.6	142.3	144.3	145.2	145.2	142.3
82.5°	74.5	81.0	84.8	102.4	108.4	134.7	123.8	126.0	123.8	119.3	118.0
85°	51.5	60.4	64.9	78.1	81.9	103.9	103.0	103.0	98.8	92.8	92.1
87.5°	28.1	33.2	36.1	46.4	56.0	70.0	75.8	73.6	70.0	66.2	67.1
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°	4528.0	4528.0	4528.0	4528.0	4528.0	4528.0	4528.0	4528.0	4528.0	4528.0	4528.0
2.5°	4062.3	4162.4	4322.3	4444.5	4567.7	4686.3	4814.6	4912.5	4995.7	5028.2	5126.8
5°	3266.7	3391.8	3542.8	3815.4	4008.5	4221.3	4467.5	4793.1	4918.3	5091.6	5375.0
7.5°	2309.7	2423.0	2666.1	2886.5	3159.9	3461.2	3793.3	4242.7	4407.1	4684.7	5146.6
10°	1724.7	1856.5	2051.7	2237.4	2478.3	2786.3	3167.9	3670.4	3870.0	4171.3	4703.3
12.5°	1389.5	1544.9	1751.9	1926.5	2113.0	2330.2	2700.9	3251.8	3519.4	3783.0	4320.8
15°	1067.4	1230.2	1422.7	1644.4	1849.8	2084.2	2472.5	3075.1	3382.9	3657.9	4116.7
17.5°	738.9	878.1	1120.5	1351.8	1615.0	1914.7	2409.2	3112.6	3480.2	3797.1	4152.2
20°	523.9	603.3	802.2	1070.5	1398.4	1774.7	2397.4	3310.0	3788.2	4149.9	4379.0
22.5°	440.5	469.9	585.7	831.7	1210.4	1670.0	2438.6	3587.0	4203.7	4665.6	4740.7
25°	401.5	419.3	479.5	652.8	1043.1	1594.2	2577.8	3999.6	4718.0	5181.4	5168.1
27.5°	380.0	398.6	438.3	551.1	917.3	1547.2	2717.0	4488.9	5305.9	5741.2	5576.2
30°	373.6	398.6	440.5	519.4	827.4	1472.7	2831.1	4918.3	5758.2	6119.3	5762.0
32.5°	368.4	372.0	391.2	447.8	741.8	1385.7	2908.5	5303.7	6200.9	6478.8	6029.4
35°	297.7	316.0	347.0	401.5	691.8	1333.5	2908.5	5636.0	6637.2	6841.9	6284.3
37.5°	286.6	302.9	330.1	376.5	663.7	1307.6	2850.3	5956.5	7082.8	7253.8	6494.2
40°	280.8	294.0	319.8	357.3	651.9	1278.2	2765.6	6239.3	7518.1	7666.2	6690.2
42.5°	276.3	288.2	312.5	345.5	636.5	1245.8	2697.1	6466.1	7896.2	8018.4	6877.4
45°	274.1	286.6	313.1	351.5	605.5	1203.0	2674.4	6711.4	8207.1	8312.3	7079.9
47.5°	274.1	288.8	316.7	364.0	568.7	1158.9	2745.7	7035.0	8501.0	8552.5	7318.5
50°	271.9	288.2	327.2	351.5	515.0	1102.9	2913.7	7442.3	8819.3	8825.1	7620.7
52.5°	267.4	286.6	352.2	344.1	453.0	1029.3	3140.7	7965.5	9290.1	9325.3	8093.5
55°	262.3	284.4	345.5	327.2	402.3	941.6	3326.3	8601.2	9951.6	10049.5	8789.2
57.5°	255.6	281.5	334.5	303.5	369.1	828.8	3393.4	9066.8	10413.5	10659.5	9572.9
60°	249.8	279.2	302.0	289.5	348.4	733.8	3263.6	8974.7	10381.8	10912.2	10267.6
62.5°	243.8	281.5	275.4	280.8	338.8	672.7	2924.8	8237.2	9856.6	10651.5	10782.6
65°	237.3	261.6	260.1	273.2	336.8	648.3	2424.6	7131.4	8841.4	9827.2	10904.2
67.5°	228.4	241.5	248.9	263.8	344.1	626.9	1956.6	5882.6	7430.5	8591.6	10270.5
70°	218.8	229.9	238.0	252.0	339.7	617.3	1627.5	4639.0	5896.0	7041.5	9020.5
72.5°	206.3	215.9	223.3	236.4	335.2	612.2	1374.8	3736.0	4401.9	5230.7	7334.1
75°	191.6	200.3	205.6	218.8	321.2	560.7	1080.8	3161.2	3293.9	3638.7	5841.4
77.5°	174.6	181.3	185.6	200.3	284.4	466.4	781.7	2438.6	2557.9	2641.8	4478.4
80°	154.8	161.3	163.5	177.5	235.7	364.7	509.8	1801.2	1913.2	1932.3	2924.8
82.5°	131.8	138.5	138.5	151.7	192.9	262.3	334.5	1234.0	1256.1	1321.0	2067.3
85°	106.2	111.3	111.3	118.0	149.7	196.0	229.9	619.6	612.9	699.9	1790.9
87.5°	75.8	79.6	83.2	84.8	106.8	129.6	138.5	188.7	124.5	143.0	1149.9
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°	4528.0	4528.0	4528.0	4528.0	4528.0	4528.0	4528.0	4528.0
2.5°	5201.3	5243.2	5200.4	5169.6	5036.2	4926.5	4779.8	4704.6
5°	5590.9	5697.7	5661.6	5532.0	5253.5	4940.3	4584.6	4424.0
7.5°	5543.9	5792.1	5797.9	5555.7	5145.3	4684.1	4202.3	3974.0
10°	5177.0	5494.3	5585.1	5350.0	4914.7	4399.0	3846.4	3585.7
12.5°	4767.3	5078.2	5147.5	5066.4	4702.6	4184.5	3624.0	3368.2
15°	4432.1	4571.4	4653.7	4724.7	4520.6	4099.1	3611.3	3330.7
17.5°	4228.0	4212.6	4236.2	4359.1	4393.7	4197.0	3802.9	3493.5
20°	4154.4	3918.0	3911.9	4081.5	4334.1	4430.7	4177.1	3805.8
22.5°	4195.0	3811.8	3763.2	3964.4	4365.8	4767.3	4667.8	4244.3
25°	4334.8	3820.7	3781.5	3976.2	4480.7	5126.1	5197.5	4811.4
27.5°	4555.2	3876.7	3825.0	4024.8	4633.2	5427.4	5719.2	5361.2
30°	4764.4	3974.0	3909.7	4120.5	4772.4	5546.8	6039.0	5789.9
32.5°	5018.6	4155.9	4043.1	4296.5	4944.8	5736.8	6324.0	6144.9
35°	5267.5	4415.1	4275.3	4568.3	5137.1	5973.4	6649.6	6598.8
37.5°	5541.0	4754.1	4638.4	4919.8	5400.2	6196.4	7065.1	7130.7
40°	5832.7	5203.5	5066.4	5432.6	5808.4	6476.6	7499.2	7656.6
42.5°	6126.6	5702.2	5538.7	5909.9	6256.9	6752.7	7870.3	8104.0
45°	6463.2	6243.7	6166.3	6567.8	6688.0	7015.9	8144.4	8434.8
47.5°	6855.3	6858.2	6982.6	7143.2	7122.7	7313.4	8420.1	8730.1
50°	7312.7	7625.0	7899.9	8006.6	7570.5	7633.2	8802.3	9125.7
52.5°	7862.3	8542.3	8882.6	8812.6	8053.2	8023.5	9407.9	9670.8
55°	8549.6	9513.3	9851.5	9801.3	8607.8	8555.4	10162.4	10315.6
57.5°	9345.2	10454.1	10765.0	10539.5	9273.8	9139.1	10786.4	10818.7
60°	10044.4	11199.7	11472.2	11222.4	9945.8	9760.0	11176.0	11019.0
62.5°	10433.3	11452.4	11644.0	11375.0	10406.1	10421.5	11261.5	10910.9
65°	10259.6	10813.6	10875.4	10853.3	10287.5	10805.4	10954.3	10410.6
67.5°	9307.7	9198.7	9302.6	9446.2	9270.9	10300.0	10103.3	9320.9
70°	7631.0	7031.9	7239.1	7335.5	7415.1	8863.4	8769.1	7591.9
72.5°	5750.8	4926.5	5090.0	5070.1	5438.4	7109.3	6819.8	5582.2
75°	4074.8	3340.3	3360.8	3352.8	3794.9	5562.1	4938.3	3819.2
77.5°	2851.0	2420.1	2431.3	2476.7	2551.2	4195.0	3528.1	2789.9
80°	1960.4	1836.7	1897.8	1901.6	1768.2	2818.0	2606.6	2239.0
82.5°	1460.2	1276.6	1261.9	1283.3	1385.7	2283.2	2003.0	1553.0
85°	1195.7	755.8	607.8	761.9	1228.0	2261.1	1330.6	819.2
87.5°	673.3	358.9	162.1	300.6	490.0	1497.0	384.5	104.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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