

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: P533854

Luminaire Tested: **GALN-SA9B-740-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-740-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38418 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G3

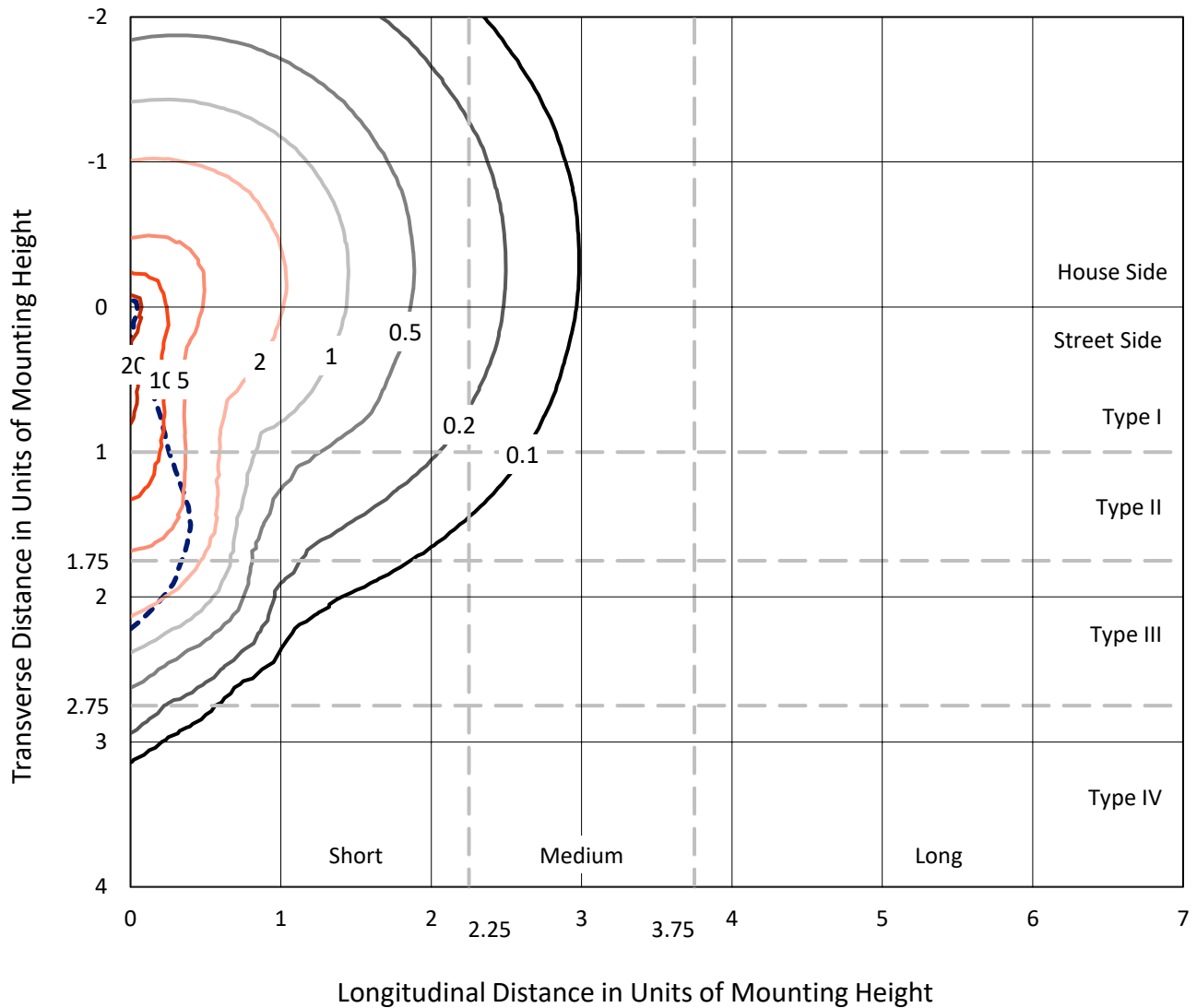
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

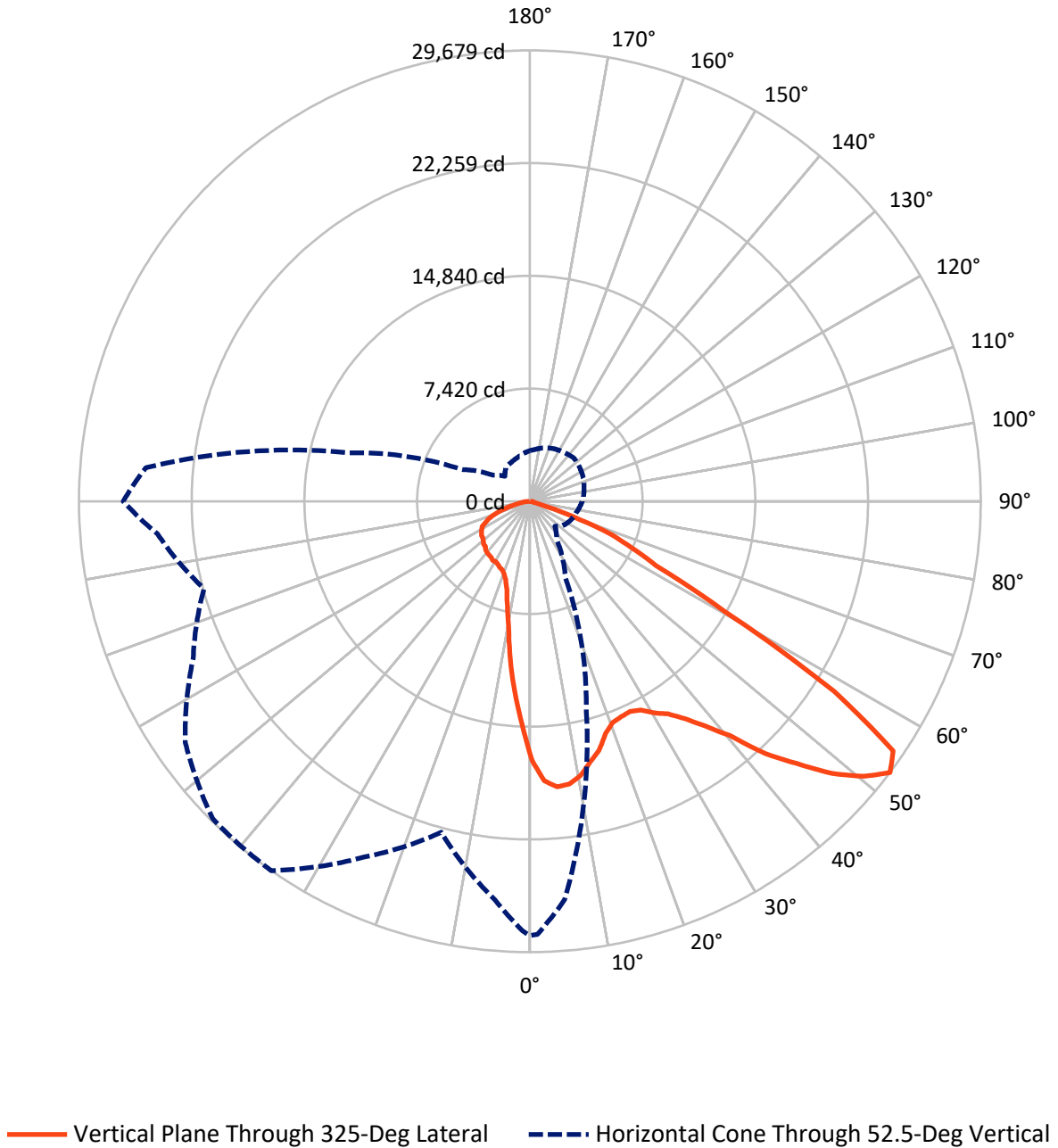
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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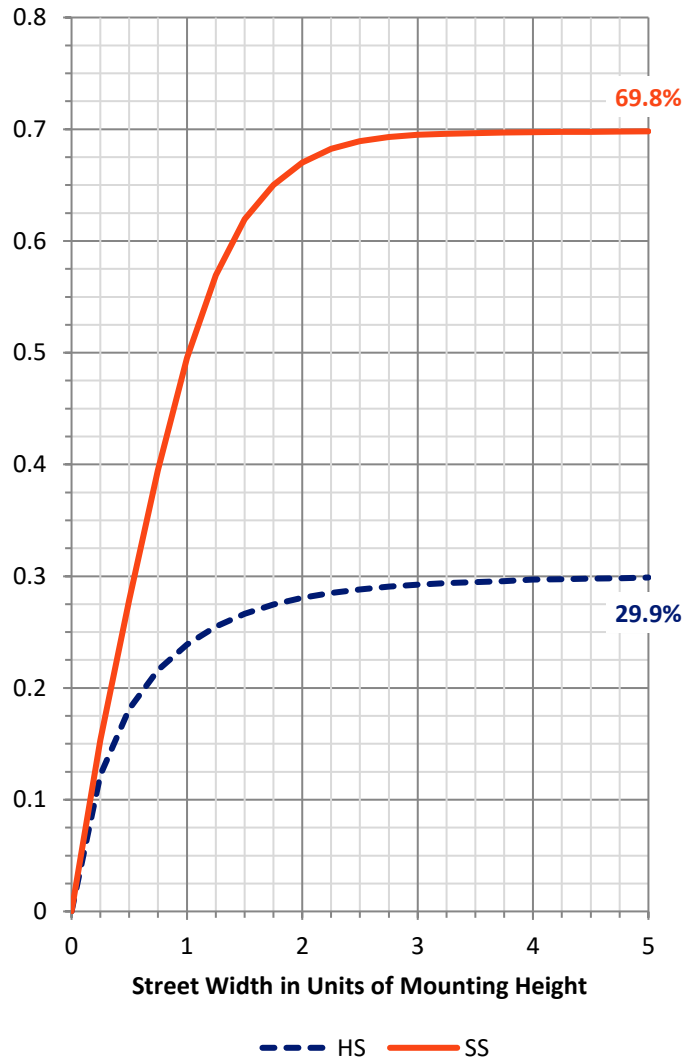
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11581.4	0.0	11581.4
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	26836.6	0.0	26836.6
	% Fixture	69.9	0.0	69.9
Total	Lumens	38418.0	0.0	38418.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1300.8	3.4
10°-20°	2819.9	7.3
20°-30°	4260.6	11.1
30°-40°	6156.8	16.0
40°-50°	8193.6	21.3
50°-60°	9164.7	23.9
60°-70°	5165.2	13.4
70°-80°	1151.4	3.0
80°-90°	205.0	0.5
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°	38418.0	100.0
0°-180°	38418.0	100.0

Coefficient of Utilization



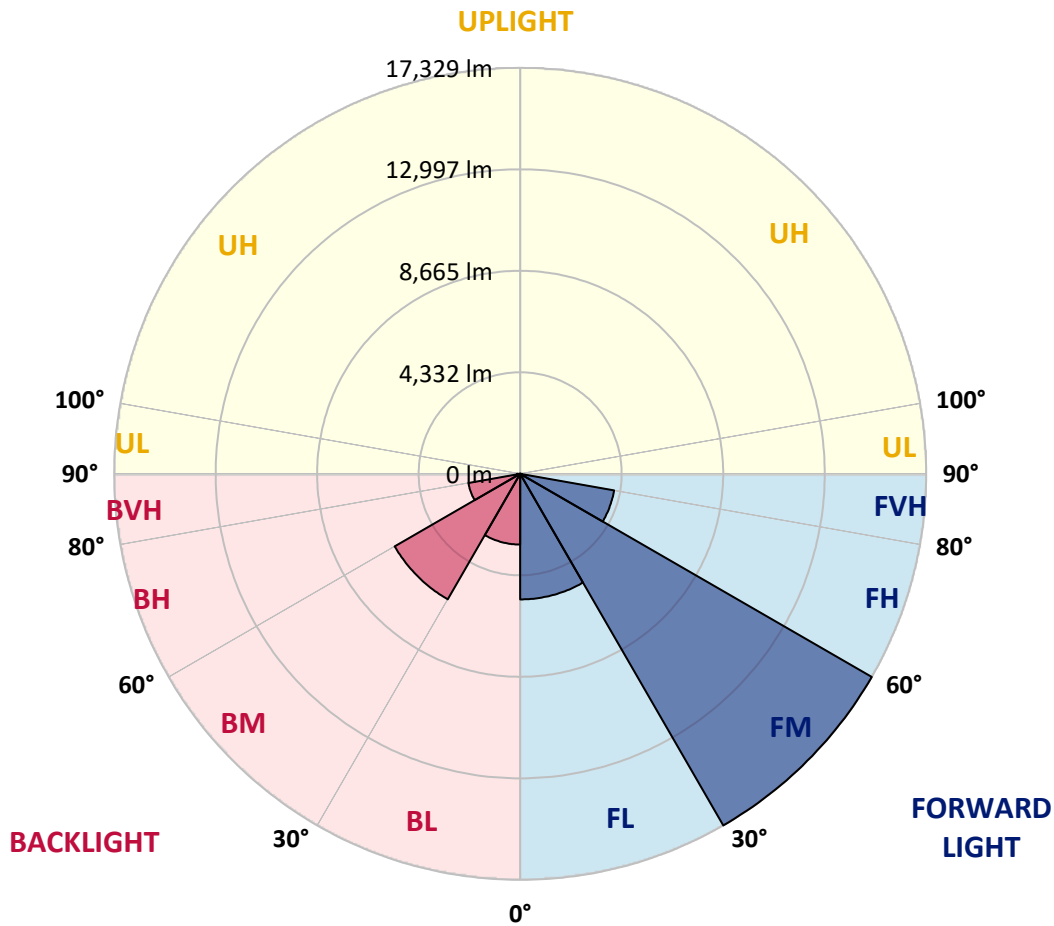
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5361.1	14.0			
FM (30°-60°)	17329.5	45.1			
FH (60°-80°)	4071.7	10.6			G2/5000
FVH (80°-90°)	74.2	0.2			G1/100
BL (0°-30°)	3020.2	7.9	B4/5000		
BM (30°-60°)	6185.6	16.1	B4/8500		
BH (60°-80°)	2244.8	5.8	B3/2500		G3/2500
BVH (80°-90°)	130.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17050.1	17050.1	17050.1	17050.1	17050.1	17050.1	17050.1	17050.1	17050.1	17050.1	17050.1
2.5°	17334.1	17612.5	17311.9	16777.3	16398.7	16053.4	15691.5	15619.1	15145.8	15062.3	14717.0
5°	16348.5	16287.3	15919.8	15218.2	14444.2	13742.6	13224.7	12723.6	12383.9	11988.6	11960.7
7.5°	15151.4	14795.0	14583.4	13519.8	12562.1	11459.6	10986.3	10223.4	9984.0	9627.6	9443.8
10°	14082.2	13820.5	13324.9	12261.4	10925.0	10195.6	9688.8	9276.8	8998.4	8630.9	8168.7
12.5°	13553.3	13447.5	12890.6	11242.4	10251.2	9471.7	9115.3	8714.4	8241.1	7650.8	7422.5
15°	13647.9	13291.5	12868.3	11047.5	9677.7	8926.0	8358.0	7856.9	7249.9	6687.5	6359.0
17.5°	14355.1	14082.2	13235.9	11170.0	9460.5	8374.7	7344.6	6604.0	6058.3	5551.6	5323.3
20°	15747.2	15351.8	14399.6	11325.9	8992.8	7606.3	6425.8	5512.6	4927.9	4660.7	4582.7
22.5°	17289.6	17055.7	15535.6	11676.7	8619.7	6893.6	5451.4	4538.2	4321.0	4248.6	4393.4
25°	19166.1	18559.2	17300.7	12250.3	8330.2	6286.6	4627.3	4120.5	4009.2	4081.6	4248.6
27.5°	20591.6	20430.1	18536.9	12790.4	7934.8	5557.2	4165.1	3831.0	3864.4	3936.8	4092.7
30°	22284.3	21465.8	19734.1	13163.5	7578.5	5056.0	3842.1	3753.0	3786.4	3908.9	3986.9
32.5°	23303.3	22997.1	20485.8	13725.9	7166.4	4621.7	3591.6	3508.0	3558.1	3741.9	3925.7
35°	24600.8	23993.8	21415.7	13870.6	6876.9	4449.1	3413.4	3352.1	3469.1	3597.1	3803.2
37.5°	26115.3	25697.7	22702.0	13770.4	6720.9	4270.9	3263.0	3235.2	3318.7	3496.9	3736.3
40°	27011.8	26883.8	23375.7	13831.7	6475.9	4115.0	3090.4	3123.8	3296.4	3435.6	3669.5
42.5°	27874.9	27039.7	24372.5	13809.4	6320.0	3903.4	3107.1	3068.1	3201.8	3363.3	3586.0
45°	28064.2	27234.6	24606.3	13653.5	6130.7	3697.4	2979.0	2995.7	3157.2	3357.7	3502.5
47.5°	27941.7	27329.2	25040.7	13608.9	5952.5	3552.6	2789.7	2990.2	3084.8	3246.3	3452.3
50°	27858.2	27824.8	25408.2	13820.5	5713.1	3324.3	2561.4	2917.8	3012.5	3173.9	3396.7
52.5°	28593.2	28520.8	26326.9	14377.4	5523.8	3079.3	2327.6	2734.0	2962.3	3118.2	3335.4
55°	29038.7	28721.3	27902.8	15062.3	5206.4	2756.3	2166.1	2505.7	2839.8	2979.0	3201.8
57.5°	26120.9	25903.7	25241.1	14060.0	4671.8	2333.1	1965.6	2271.9	2672.8	2889.9	3118.2
60°	21733.1	21393.4	19695.1	11949.6	3446.8	1815.3	1843.1	2088.1	2628.2	2711.8	2979.0
62.5°	20491.4	19650.5	17339.7	9616.5	2644.9	1559.1	1653.8	1921.1	2394.4	2533.6	2800.9
65°	16259.4	15635.8	12406.2	6943.7	1770.7	1353.1	1509.0	1731.7	2065.8	2338.7	2583.7
67.5°	10178.9	9583.0	6620.7	3285.3	1236.2	1158.2	1347.5	1581.4	1854.2	2099.3	2372.1
70°	5317.7	4666.2	3057.0	1186.0	852.0	946.6	1124.8	1347.5	1614.8	1815.3	2026.9
72.5°	1982.3	1609.2	996.7	512.3	590.2	723.9	913.2	1074.7	1264.0	1509.0	1625.9
75°	306.3	261.7	256.1	311.8	400.9	523.4	651.5	813.0	980.0	1135.9	1213.9
77.5°	144.8	139.2	155.9	206.0	267.3	373.1	473.3	629.2	762.9	863.1	907.6
80°	94.7	89.1	100.2	139.2	200.5	278.4	378.6	484.4	606.9	690.5	679.3
82.5°	55.7	61.3	61.3	94.7	139.2	200.5	272.8	367.5	451.0	523.4	478.9
85°	33.4	27.8	27.8	55.7	94.7	161.5	228.3	155.9	161.5	161.5	183.8
87.5°	11.1	11.1	11.1	5.6	11.1	11.1	16.7	27.8	33.4	39.0	50.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	17050.1	17050.1	17050.1	17050.1	17050.1	17050.1	17050.1	17050.1	17050.1	17050.1	17050.1
2.5°	14705.9	14878.5	14817.3	14600.1	14767.1	14795.0	14683.6	15067.8	15140.2	15023.3	15056.7
5°	11921.7	11966.3	12066.5	12278.1	12428.5	12606.6	12606.6	12617.8	12467.4	12846.1	12734.7
7.5°	9287.9	9315.8	9432.7	9883.7	10011.8	10351.5	10496.3	10396.0	10095.3	9967.3	10073.1
10°	8018.4	7856.9	7817.9	7873.6	8163.1	8307.9	8430.4	8397.0	8346.9	8246.7	8135.3
12.5°	7172.0	7055.0	6960.4	6826.7	6843.4	6982.7	7077.3	6999.4	7021.6	7043.9	7077.3
15°	6253.2	6169.7	6119.6	5919.1	5896.8	5991.5	6024.9	6069.5	6153.0	6158.5	6119.6
17.5°	5278.8	5206.4	5317.7	5429.1	5351.1	5356.7	5418.0	5456.9	5434.7	5334.4	5284.3
20°	4610.6	4688.5	4799.9	4905.7	4989.2	5039.3	5061.6	5000.3	4927.9	4721.9	4716.4
22.5°	4415.7	4515.9	4610.6	4772.0	4850.0	4978.1	4861.1	4721.9	4621.7	4521.5	4404.5
25°	4270.9	4354.4	4543.7	4605.0	4755.3	4861.1	4777.6	4638.4	4465.8	4321.0	4231.9
27.5°	4165.1	4259.8	4382.3	4549.3	4666.2	4727.5	4644.0	4588.3	4410.1	4237.5	4109.4
30°	4098.3	4198.5	4421.2	4560.4	4660.7	4710.8	4566.0	4499.2	4371.1	4226.3	4115.0
32.5°	4053.7	4142.8	4332.1	4510.3	4577.1	4577.1	4599.4	4521.5	4343.3	4098.3	4003.6
35°	3908.9	4031.5	4187.4	4393.4	4515.9	4588.3	4476.9	4387.8	4270.9	4020.3	3847.7
37.5°	3825.4	3908.9	4109.4	4304.3	4410.1	4488.1	4443.5	4287.6	4131.7	3925.7	3786.4
40°	3736.3	3870.0	4048.2	4231.9	4348.8	4426.8	4393.4	4209.6	4020.3	3825.4	3730.8
42.5°	3675.1	3764.2	3947.9	4154.0	4293.2	4443.5	4343.3	4115.0	3981.3	3714.1	3608.3
45°	3625.0	3769.7	3964.6	4048.2	4192.9	4348.8	4170.7	4031.5	3875.5	3680.6	3591.6
47.5°	3563.7	3697.4	3825.4	4048.2	4115.0	4187.4	4154.0	3931.2	3797.6	3586.0	3524.7
50°	3541.4	3591.6	3825.4	3947.9	4042.6	4115.0	4025.9	3858.8	3730.8	3513.6	3380.0
52.5°	3452.3	3547.0	3697.4	3858.8	3975.8	4064.9	3920.1	3814.3	3641.7	3413.4	3329.8
55°	3341.0	3396.7	3663.9	3831.0	3892.2	3953.5	3897.8	3725.2	3547.0	3313.1	3229.6
57.5°	3196.2	3324.3	3541.4	3775.3	3853.3	3886.7	3797.6	3658.4	3435.6	3229.6	3096.0
60°	3045.9	3179.5	3418.9	3608.3	3686.2	3808.7	3675.1	3591.6	3335.4	3107.1	2962.3
62.5°	2895.5	3045.9	3224.0	3463.5	3530.3	3580.4	3547.0	3430.1	3224.0	2967.9	2789.7
65°	2717.3	2828.7	3051.4	3173.9	3218.5	3335.4	3218.5	3173.9	2990.2	2745.2	2594.8
67.5°	2450.1	2544.7	2739.6	2856.5	2889.9	2940.1	2934.5	2884.4	2678.4	2511.3	2377.7
70°	2143.8	2227.3	2349.8	2489.0	2505.7	2567.0	2511.3	2500.2	2366.5	2138.2	2065.8
72.5°	1720.6	1798.6	1960.0	2021.3	2026.9	2049.1	2021.3	1982.3	1948.9	1709.5	1637.1
75°	1319.7	1364.2	1442.2	1497.9	1497.9	1525.7	1509.0	1470.0	1380.9	1230.6	1158.2
77.5°	918.8	963.3	1063.5	1097.0	1091.4	1102.5	1052.4	1013.4	879.8	801.8	740.6
80°	668.2	696.0	746.2	768.4	774.0	790.7	729.4	696.0	618.1	529.0	501.1
82.5°	484.4	501.1	506.7	534.6	534.6	506.7	490.0	456.6	400.9	345.2	323.0
85°	200.5	206.0	211.6	245.0	250.6	300.7	278.4	261.7	228.3	194.9	178.2
87.5°	50.1	55.7	72.4	61.3	72.4	72.4	78.0	89.1	89.1	72.4	72.4
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	17050.1	17050.1	17050.1	17050.1	17050.1	17050.1	17050.1	17050.1	17050.1	17050.1	17050.1
2.5°	15184.8	15229.3	15797.3	15869.7	16148.1	16432.1	17005.6	17417.7	17751.8	17968.9	18030.2
5°	12851.6	13135.6	13397.3	13820.5	14204.7	14750.4	15379.7	16159.2	17139.2	17640.4	17840.8
7.5°	10061.9	10396.0	10774.7	11186.7	11749.1	12729.1	13570.0	14472.0	15724.9	16242.7	17027.9
10°	8213.2	8586.3	9087.5	9404.9	10084.2	11019.7	11999.7	13041.0	14238.2	14984.3	15891.9
12.5°	7261.1	7567.3	8029.5	8697.7	9204.4	9811.4	10540.8	11854.9	13570.0	14277.1	14900.8
15°	6208.7	6548.3	7082.9	7823.5	8430.4	9154.3	9972.8	11403.9	13230.3	14321.7	14850.7
17.5°	5340.0	5585.0	6147.4	6787.8	7483.8	8274.5	9449.4	11381.6	13586.7	14984.3	15847.4
20°	4738.6	4772.0	5078.3	5624.0	6570.6	7600.7	9126.4	11270.2	14728.2	16125.8	17217.2
22.5°	4360.0	4326.6	4332.1	4794.3	5456.9	6938.1	8619.7	11648.9	16025.6	17941.1	18676.1
25°	4170.7	4081.6	4025.9	4126.1	4727.5	6153.0	8235.5	12150.0	17423.2	19438.9	20341.0
27.5°	4070.4	3914.5	3803.2	3819.9	4259.8	5757.6	7996.1	12367.2	18809.7	21527.1	21844.5
30°	4031.5	3836.6	3675.1	3619.4	3908.9	5206.4	7483.8	12740.3	20051.5	22674.1	22947.0
32.5°	3892.2	3652.8	3496.9	3446.8	3563.7	4721.9	7116.3	13007.6	21148.4	23921.4	23826.8
35°	3730.8	3530.3	3335.4	3240.8	3324.3	4410.1	6821.2	12879.5	22440.3	24890.3	24840.2
37.5°	3714.1	3452.3	3290.9	3135.0	3129.4	4025.9	6420.3	13002.0	23264.4	26627.6	25942.7
40°	3569.3	3402.2	3190.6	3062.6	2990.2	3831.0	6030.5	12712.4	24472.7	27329.2	26655.5
42.5°	3574.9	3324.3	3140.5	2990.2	2917.8	3547.0	5763.2	12634.5	24895.9	28470.7	26989.6
45°	3485.8	3240.8	3084.8	2906.7	2867.7	3329.8	5507.1	12272.5	25642.0	28526.4	26571.9
47.5°	3396.7	3179.5	3012.5	2800.9	2711.8	3251.9	5306.6	11971.9	25252.3	28003.0	25992.8
50°	3335.4	3084.8	2928.9	2778.6	2528.0	3118.2	5044.9	11899.5	24706.6	27295.8	24918.2
52.5°	3229.6	3006.9	2845.4	2728.5	2327.6	2995.7	4944.7	12322.7	25374.8	26766.8	24606.3
55°	3129.4	2901.1	2695.1	2466.8	2160.5	2672.8	4666.2	12718.0	26349.2	27986.3	26020.7
57.5°	3023.6	2806.4	2583.7	2310.8	1999.0	2338.7	4376.7	12790.4	24522.8	25864.8	24701.0
60°	2884.4	2606.0	2438.9	2082.5	1826.4	1937.8	3469.1	11275.8	19021.3	21599.4	21638.4
62.5°	2728.5	2427.8	2283.0	1865.4	1648.2	1670.5	2828.7	9477.3	15429.8	17879.8	18943.4
65°	2522.4	2232.9	2060.3	1726.2	1520.1	1447.8	2071.4	6943.7	11721.3	14505.4	15713.8
67.5°	2255.2	1982.3	1765.2	1503.4	1358.7	1241.7	1414.3	3908.9	6921.4	9739.0	10106.5
70°	1971.2	1737.3	1509.0	1291.8	1130.4	1046.8	1035.7	1731.7	3307.6	5239.8	5963.7
72.5°	1553.6	1386.5	1202.8	1041.3	935.5	813.0	740.6	718.3	1119.2	2132.7	2945.6
75°	1113.7	974.5	868.7	762.9	684.9	618.1	562.4	512.3	467.7	534.6	735.0
77.5°	701.6	651.5	568.0	540.1	495.6	478.9	456.6	428.8	395.3	373.1	373.1
80°	473.3	439.9	412.1	406.5	389.8	384.2	389.8	361.9	328.5	300.7	311.8
82.5°	317.4	311.8	306.3	300.7	306.3	311.8	323.0	317.4	289.6	272.8	278.4
85°	189.3	200.5	211.6	222.7	245.0	217.2	178.2	150.3	133.6	122.5	116.9
87.5°	72.4	100.2	89.1	83.5	89.1	83.5	78.0	72.4	61.3	55.7	55.7
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	17050.1	17050.1	17050.1	17050.1	17050.1	17050.1	17050.1	17050.1	17050.1	17050.1
2.5°	18436.7	18548.0	18642.7	18620.4	18425.5	18163.8	18058.0	17517.9	17406.5	17334.1
5°	18687.2	19333.1	19472.4	19388.8	18882.1	18241.8	17618.1	16827.4	16365.2	16348.5
7.5°	18225.1	19021.3	19271.9	19461.2	18787.5	17673.8	16604.7	15418.6	15129.1	15151.4
10°	17050.1	18319.7	18937.8	19132.7	18358.7	17395.4	15914.2	14711.5	14093.4	14082.2
12.5°	16398.7	17395.4	17568.0	17840.8	17612.5	16638.1	15513.3	14165.8	13564.4	13553.3
15°	15819.5	16476.6	16526.7	16910.9	17033.4	16376.4	15619.1	14182.5	13698.0	13647.9
17.5°	16326.3	15869.7	15680.3	15730.5	16092.4	16331.8	16231.6	15129.1	14633.5	14355.1
20°	16665.9	15646.9	15073.4	15129.1	15557.8	16432.1	17144.8	16498.9	15713.8	15747.2
22.5°	17573.6	15680.3	14783.8	14722.6	15401.9	16955.5	18174.9	18230.6	17473.3	17289.6
25°	18932.2	16064.6	14694.8	14678.0	15329.5	17517.9	19377.7	20279.8	19505.8	19166.1
27.5°	20023.6	16665.9	14973.2	15028.9	15557.8	17974.5	20402.3	21599.4	21009.2	20591.6
30°	20981.4	17289.6	15362.9	15106.8	16170.4	18213.9	20842.2	23102.9	22629.6	22284.3
32.5°	21376.7	18174.9	15981.0	15557.8	16677.1	18503.5	21755.4	24561.8	24155.3	23303.3
35°	22044.9	18670.5	16315.1	16281.7	17562.4	19199.5	22184.1	25525.1	25358.1	24600.8
37.5°	22579.5	19171.7	17501.2	17133.7	18776.3	20368.9	22874.6	26855.9	26471.7	26115.3
40°	22991.5	20068.2	18609.3	19093.7	20268.6	21432.4	23509.4	26939.5	28047.5	27011.8
42.5°	22612.9	20870.0	20430.1	21588.3	22702.0	22646.3	23581.8	27585.4	28415.1	27874.9
45°	22518.2	22228.7	23308.9	24361.3	24617.5	23654.2	23063.9	26872.6	28303.7	28064.2
47.5°	22289.9	23565.1	25447.1	27162.2	26772.4	24327.9	22445.8	26744.6	28370.5	27941.7
50°	22212.0	23854.6	27028.5	28699.0	28465.2	24912.6	22156.3	25920.5	27897.2	27858.2
52.5°	22206.4	24450.4	27685.6	29534.3	29679.1	25836.9	22551.6	26338.1	28264.7	28593.2
55°	22457.0	24261.1	27602.1	29072.1	29016.4	25424.9	22596.2	26616.5	28715.7	29038.7
57.5°	21181.8	21733.1	22779.9	23943.7	23643.0	21059.3	20179.5	24606.3	26354.8	26120.9
60°	18291.9	16565.7	15385.2	15329.5	14744.9	13937.5	16515.6	21961.4	21961.4	21733.1
62.5°	16020.0	10874.9	9343.6	8909.3	9326.9	10256.8	15930.9	21360.0	20753.1	20491.4
65°	14009.9	8302.3	6754.4	6631.8	7355.7	8758.9	14405.2	18197.2	17128.1	16259.4
67.5°	9015.1	6080.6	5022.6	4805.4	5679.7	6431.4	9588.6	11192.3	10518.5	10178.9
70°	5813.3	3959.1	2795.3	2622.7	2962.3	3964.6	6125.1	6526.1	5546.0	5317.7
72.5°	2750.7	1709.5	980.0	807.4	907.6	1514.6	2422.2	2606.0	2166.1	1982.3
75°	874.2	629.2	400.9	345.2	328.5	389.8	556.8	428.8	311.8	306.3
77.5°	389.8	373.1	317.4	267.3	233.9	194.9	161.5	133.6	139.2	144.8
80°	323.0	295.1	261.7	233.9	194.9	150.3	116.9	89.1	89.1	94.7
82.5°	284.0	256.1	228.3	194.9	167.0	122.5	89.1	61.3	55.7	55.7
85°	122.5	144.8	155.9	167.0	133.6	100.2	61.3	39.0	33.4	33.4
87.5°	50.1	44.5	39.0	33.4	27.8	27.8	22.3	16.7	11.1	11.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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