

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: P533152

Luminaire Tested: **GALN-SA8C-740-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533152
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-SA8C-740-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA 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: 42280 lumens
Efficiency: N/A
Efficacy: 98.6 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

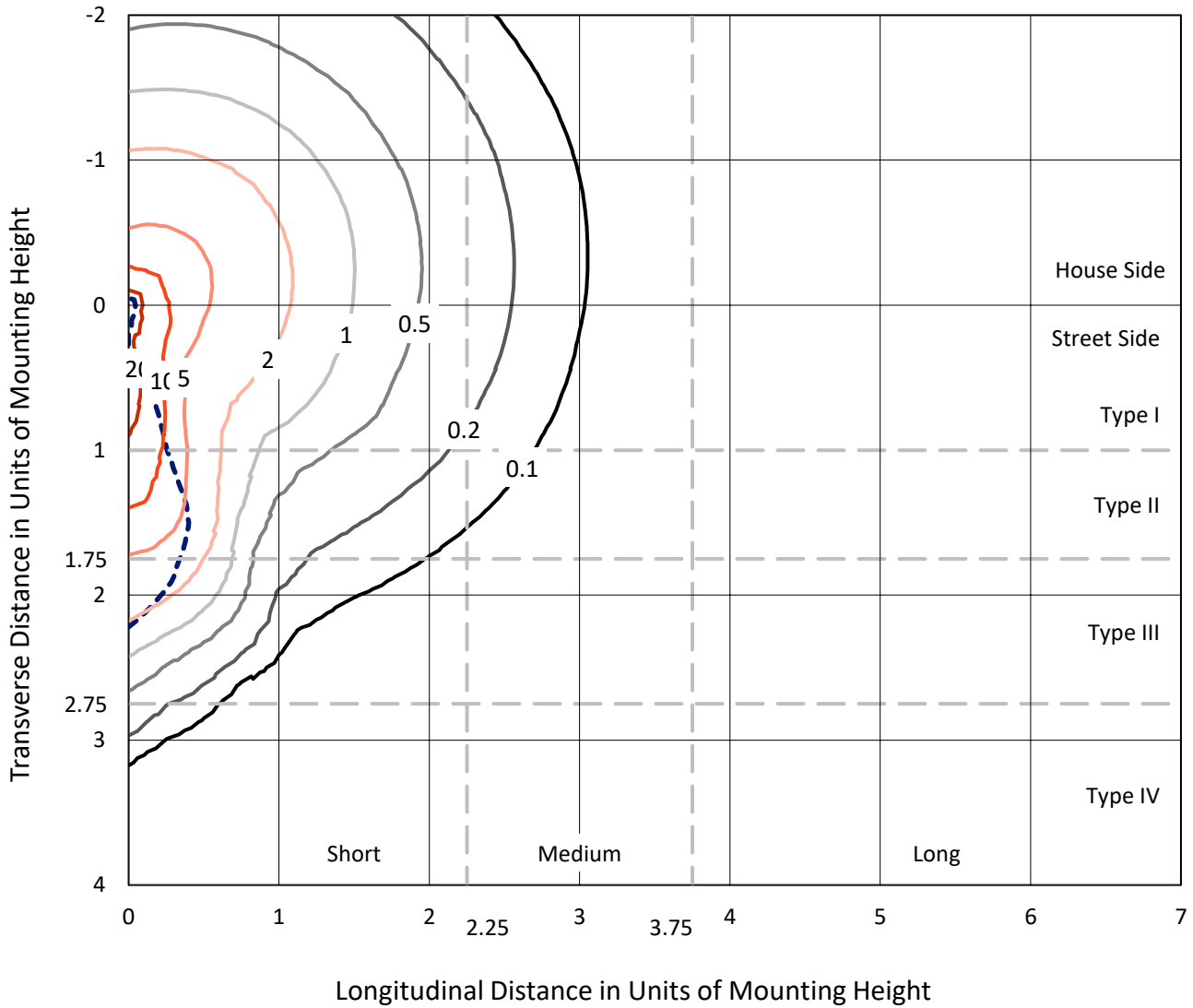
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

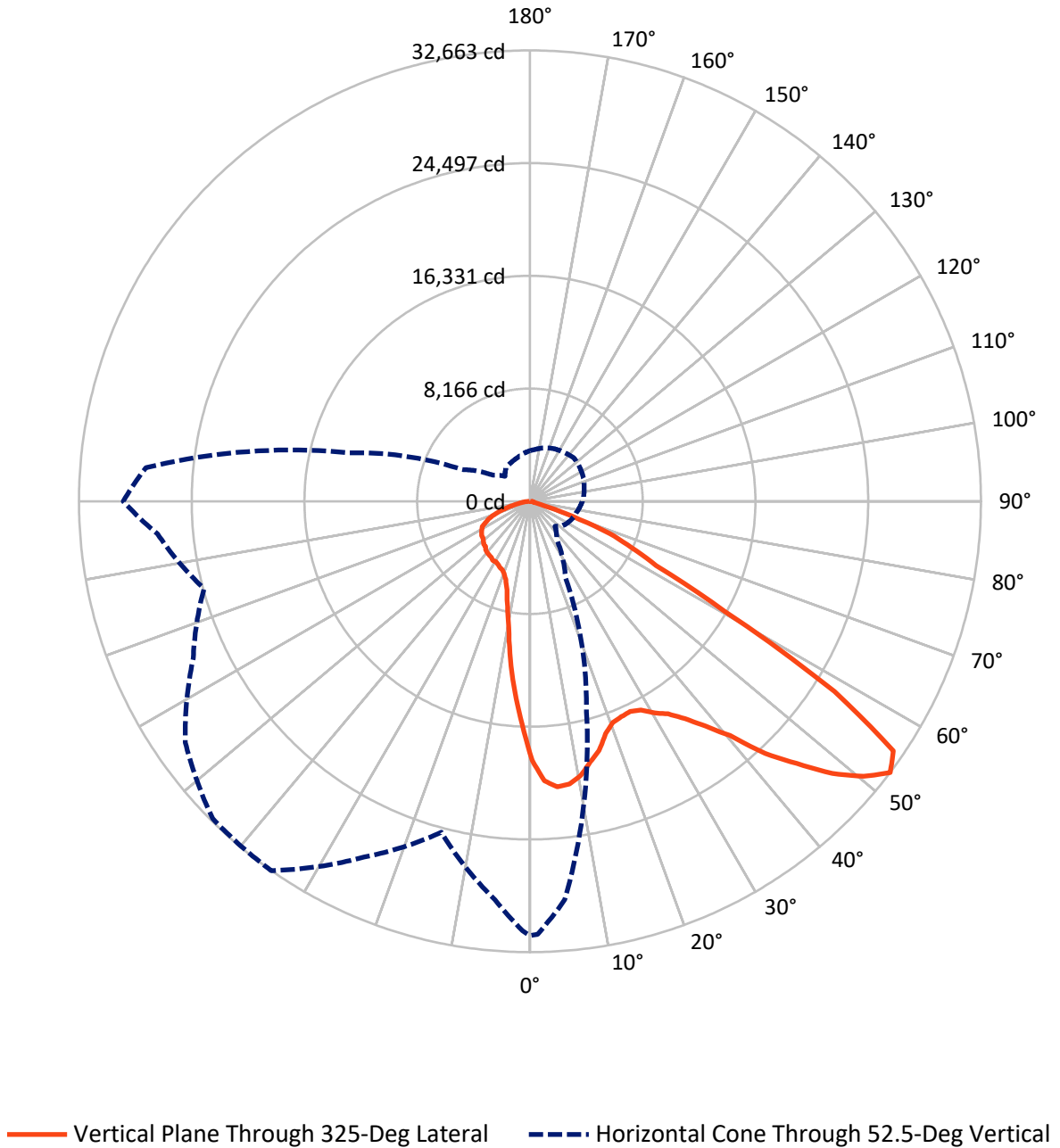
x Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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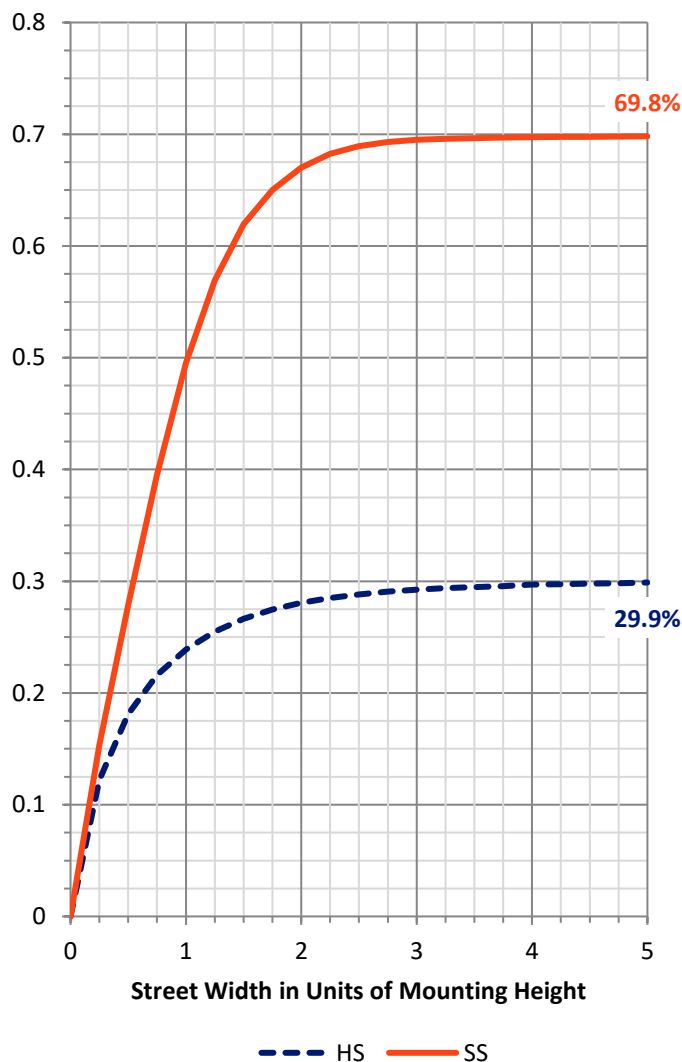
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12745.6	0.0	12745.6
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	29534.3	0.0	29534.3
	% Fixture	69.9	0.0	69.9
Total	Lumens	42280.0	0.0	42280.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1431.5	3.4
10°-20°	3103.4	7.3
20°-30°	4688.9	11.1
30°-40°	6775.7	16.0
40°-50°	9017.2	21.3
50°-60°	10086.0	23.9
60°-70°	5684.4	13.4
70°-80°	1267.1	3.0
80°-90°	225.6	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°	42280.0	100.0
0°-180°	42280.0	100.0

Coefficient of Utilization



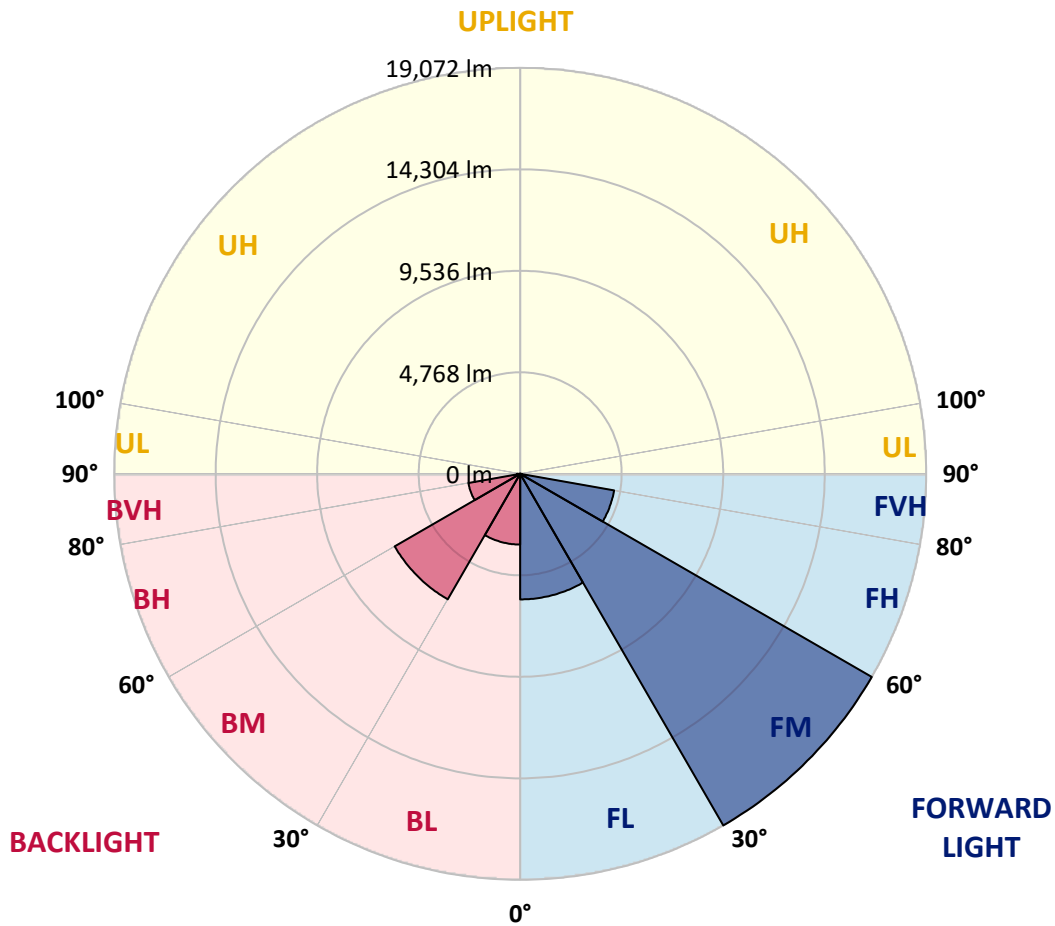
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5900.1	14.0			
FM (30°-60°)	19071.5	45.1			
FH (60°-80°)	4481.0	10.6			G2/5000
FVH (80°-90°)	81.7	0.2			G1/100
BL (0°-30°)	3323.8	7.9	B4/5000		
BM (30°-60°)	6807.4	16.1	B4/8500		
BH (60°-80°)	2470.5	5.8	B3/2500		G3/2500
BVH (80°-90°)	143.9	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°	18764.1	18764.1	18764.1	18764.1	18764.1	18764.1	18764.1	18764.1	18764.1	18764.1	18764.1
2.5°	19076.7	19383.1	19052.1	18463.8	18047.1	17667.2	17268.9	17189.2	16668.3	16576.4	16196.5
5°	17992.0	17924.6	17520.1	16748.0	15896.2	15124.1	14554.1	14002.6	13628.8	13193.7	13163.1
7.5°	16674.5	16282.3	16049.4	14878.9	13824.9	12611.6	12090.7	11251.1	10987.6	10595.4	10393.2
10°	15497.9	15209.8	14664.5	13494.0	12023.3	11220.5	10662.8	10209.4	9902.9	9498.5	8989.9
12.5°	14915.7	14799.3	14186.5	12372.6	11281.8	10423.8	10031.6	9590.4	9069.5	8420.0	8168.7
15°	15019.9	14627.7	14161.9	12158.1	10650.6	9823.3	9198.2	8646.7	7978.7	7359.8	6998.2
17.5°	15798.1	15497.9	14566.4	12292.9	10411.6	9216.6	8082.9	7267.9	6667.3	6109.7	5858.4
20°	17330.2	16895.1	15847.2	12464.5	9896.8	8370.9	7071.8	6066.8	5423.3	5129.2	5043.4
22.5°	19027.6	18770.3	17097.3	12850.5	9486.2	7586.5	5999.4	4994.4	4755.4	4675.7	4835.0
25°	21092.8	20424.8	19039.9	13481.7	9167.6	6918.6	5092.4	4534.8	4412.2	4491.9	4675.7
27.5°	22661.6	22483.9	20400.3	14076.2	8732.5	6115.8	4583.8	4216.1	4252.9	4332.5	4504.1
30°	24524.5	23623.7	21717.8	14486.7	8340.3	5564.3	4228.4	4130.3	4167.1	4301.9	4387.7
32.5°	25645.9	25308.9	22545.1	15105.7	7886.8	5086.3	3952.6	3860.7	3915.8	4118.1	4320.3
35°	27073.8	26405.8	23568.5	15265.0	7568.2	4896.3	3756.5	3689.1	3817.8	3958.7	4185.5
37.5°	28740.6	28281.0	24984.1	15154.7	7396.6	4700.2	3591.0	3560.4	3652.3	3848.4	4111.9
40°	29727.2	29586.3	25725.6	15222.1	7126.9	4528.6	3401.1	3437.8	3627.8	3781.0	4038.4
42.5°	30677.1	29757.9	26822.5	15197.6	6955.3	4295.8	3419.5	3376.6	3523.6	3701.3	3946.5
45°	30885.4	29972.3	27079.9	15026.0	6747.0	4069.0	3278.5	3296.9	3474.6	3695.2	3854.6
47.5°	30750.6	30076.5	27557.9	14977.0	6550.9	3909.7	3070.2	3290.8	3394.9	3572.7	3799.4
50°	30658.7	30621.9	27962.3	15209.8	6287.4	3658.5	2818.9	3211.1	3315.3	3493.0	3738.1
52.5°	31467.6	31387.9	28973.5	15822.7	6079.0	3388.8	2561.5	3008.9	3260.1	3431.7	3670.7
55°	31957.8	31608.5	30707.7	16576.4	5729.7	3033.4	2383.8	2757.6	3125.3	3278.5	3523.6
57.5°	28746.7	28507.7	27778.5	15473.4	5141.4	2567.7	2163.2	2500.2	2941.5	3180.5	3431.7
60°	23917.8	23544.0	21675.0	13150.8	3793.3	1997.7	2028.4	2298.0	2892.4	2984.4	3278.5
62.5°	22551.3	21625.9	19082.8	10583.2	2910.8	1715.9	1820.0	2114.2	2635.1	2788.3	3082.4
65°	17893.9	17207.6	13653.3	7641.7	1948.7	1489.1	1660.7	1905.8	2273.5	2573.8	2843.4
67.5°	11202.1	10546.4	7286.3	3615.6	1360.4	1274.6	1483.0	1740.4	2040.6	2310.3	2610.6
70°	5852.3	5135.3	3364.3	1305.3	937.6	1041.8	1237.9	1483.0	1777.1	1997.7	2230.6
72.5°	2181.6	1771.0	1096.9	563.8	649.6	796.6	1005.0	1182.7	1391.1	1660.7	1789.4
75°	337.0	288.0	281.9	343.2	441.2	576.0	717.0	894.7	1078.5	1250.1	1335.9
77.5°	159.3	153.2	171.6	226.7	294.1	410.6	520.9	692.5	839.5	949.8	998.9
80°	104.2	98.0	110.3	153.2	220.6	306.4	416.7	533.1	668.0	759.9	747.6
82.5°	61.3	67.4	67.4	104.2	153.2	220.6	300.3	404.5	496.4	576.0	527.0
85°	36.8	30.6	30.6	61.3	104.2	177.7	251.3	171.6	177.7	177.7	202.2
87.5°	12.3	12.3	12.3	6.1	12.3	12.3	18.4	30.6	36.8	42.9	55.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	18764.1	18764.1	18764.1	18764.1	18764.1	18764.1	18764.1	18764.1	18764.1	18764.1	18764.1
2.5°	16184.2	16374.2	16306.8	16067.8	16251.6	16282.3	16159.7	16582.5	16662.2	16533.5	16570.3
5°	13120.2	13169.2	13279.5	13512.4	13677.8	13873.9	13873.9	13886.2	13720.7	14137.4	14014.9
7.5°	10221.6	10252.2	10380.9	10877.3	11018.3	11392.1	11551.4	11441.1	11110.2	10969.2	11085.7
10°	8824.4	8646.7	8603.8	8665.1	8983.7	9143.1	9277.9	9241.1	9186.0	9075.7	8953.1
12.5°	7892.9	7764.3	7660.1	7513.0	7531.4	7684.6	7788.8	7703.0	7727.5	7752.0	7788.8
15°	6881.8	6789.9	6734.7	6514.1	6489.6	6593.8	6630.6	6679.6	6771.5	6777.6	6734.7
17.5°	5809.4	5729.7	5852.3	5974.9	5889.1	5895.2	5962.6	6005.5	5981.0	5870.7	5815.5
20°	5074.0	5159.8	5282.4	5398.8	5490.7	5545.9	5570.4	5503.0	5423.3	5196.6	5190.5
22.5°	4859.6	4969.9	5074.0	5251.7	5337.5	5478.5	5349.8	5196.6	5086.3	4976.0	4847.3
25°	4700.2	4792.1	5000.5	5067.9	5233.4	5349.8	5257.9	5104.7	4914.7	4755.4	4657.3
27.5°	4583.8	4688.0	4822.8	5006.6	5135.3	5202.7	5110.8	5049.5	4853.4	4663.5	4522.5
30°	4510.3	4620.6	4865.7	5018.9	5129.2	5184.3	5025.0	4951.5	4810.5	4651.2	4528.6
32.5°	4461.2	4559.3	4767.6	4963.7	5037.3	5037.3	5061.8	4976.0	4779.9	4510.3	4406.1
35°	4301.9	4436.7	4608.3	4835.0	4969.9	5049.5	4927.0	4828.9	4700.2	4424.5	4234.5
37.5°	4210.0	4301.9	4522.5	4737.0	4853.4	4939.2	4890.2	4718.6	4547.0	4320.3	4167.1
40°	4111.9	4259.0	4455.1	4657.3	4786.0	4871.8	4835.0	4632.8	4424.5	4210.0	4105.8
42.5°	4044.5	4142.6	4344.8	4571.5	4724.7	4890.2	4779.9	4528.6	4381.6	4087.4	3971.0
45°	3989.4	4148.7	4363.2	4455.1	4614.4	4786.0	4589.9	4436.7	4265.1	4050.6	3952.6
47.5°	3922.0	4069.0	4210.0	4455.1	4528.6	4608.3	4571.5	4326.4	4179.3	3946.5	3879.1
50°	3897.4	3952.6	4210.0	4344.8	4449.0	4528.6	4430.6	4246.7	4105.8	3866.8	3719.7
52.5°	3799.4	3903.6	4069.0	4246.7	4375.4	4473.5	4314.2	4197.7	4007.8	3756.5	3664.6
55°	3676.8	3738.1	4032.3	4216.1	4283.5	4350.9	4289.6	4099.7	3903.6	3646.2	3554.3
57.5°	3517.5	3658.5	3897.4	4154.8	4240.6	4277.4	4179.3	4026.1	3781.0	3554.3	3407.2
60°	3352.0	3499.1	3762.6	3971.0	4056.8	4191.6	4044.5	3952.6	3670.7	3419.5	3260.1
62.5°	3186.6	3352.0	3548.1	3811.7	3885.2	3940.3	3903.6	3774.9	3548.1	3266.3	3070.2
65°	2990.5	3113.1	3358.2	3493.0	3542.0	3670.7	3542.0	3493.0	3290.8	3021.1	2855.7
67.5°	2696.3	2800.5	3015.0	3143.7	3180.5	3235.6	3229.5	3174.3	2947.6	2763.8	2616.7
70°	2359.3	2451.2	2586.0	2739.2	2757.6	2825.0	2763.8	2751.5	2604.4	2353.2	2273.5
72.5°	1893.6	1979.4	2157.1	2224.5	2230.6	2255.1	2224.5	2181.6	2144.8	1881.3	1801.7
75°	1452.4	1501.4	1587.2	1648.4	1648.4	1679.1	1660.7	1617.8	1519.8	1354.3	1274.6
77.5°	1011.1	1060.2	1170.5	1207.2	1201.1	1213.4	1158.2	1115.3	968.2	882.4	815.0
80°	735.4	766.0	821.2	845.7	851.8	870.2	802.8	766.0	680.2	582.2	551.5
82.5°	533.1	551.5	557.7	588.3	588.3	557.7	539.3	502.5	441.2	379.9	355.4
85°	220.6	226.7	232.9	269.6	275.8	330.9	306.4	288.0	251.3	214.5	196.1
87.5°	55.2	61.3	79.7	67.4	79.7	79.7	85.8	98.0	98.0	79.7	79.7
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	18764.1	18764.1	18764.1	18764.1	18764.1	18764.1	18764.1	18764.1	18764.1	18764.1	18764.1
2.5°	16711.2	16760.2	17385.3	17465.0	17771.4	18083.9	18715.1	19168.6	19536.3	19775.3	19842.7
5°	14143.6	14456.1	14744.1	15209.8	15632.7	16233.2	16925.7	17783.6	18862.2	19413.7	19634.3
7.5°	11073.4	11441.1	11857.8	12311.3	12930.2	14008.7	14934.1	15926.8	17305.6	17875.6	18739.6
10°	9038.9	9449.5	10001.0	10350.3	11097.9	12127.4	13206.0	14351.9	15669.5	16490.6	17489.5
12.5°	7991.0	8328.0	8836.7	9572.0	10129.7	10797.6	11600.4	13046.6	14934.1	15712.3	16398.7
15°	6832.8	7206.6	7794.9	8609.9	9277.9	10074.5	10975.4	12550.3	14560.3	15761.4	16343.5
17.5°	5876.8	6146.4	6765.4	7470.1	8236.1	9106.3	10399.3	12525.8	14952.5	16490.6	17440.5
20°	5215.0	5251.7	5588.8	6189.3	7231.1	8364.8	10043.9	12403.2	16208.7	17746.9	18948.0
22.5°	4798.3	4761.5	4767.6	5276.3	6005.5	7635.6	9486.2	12819.9	17636.6	19744.6	20553.5
25°	4589.9	4491.9	4430.6	4540.9	5202.7	6771.5	9063.4	13371.4	19174.7	21393.1	22385.8
27.5°	4479.6	4308.0	4185.5	4203.9	4688.0	6336.4	8799.9	13610.4	20700.6	23691.1	24040.4
30°	4436.7	4222.2	4044.5	3983.2	4301.9	5729.7	8236.1	14021.0	22067.1	24953.5	25253.7
32.5°	4283.5	4020.0	3848.4	3793.3	3922.0	5196.6	7831.7	14315.2	23274.4	26326.2	26222.0
35°	4105.8	3885.2	3670.7	3566.5	3658.5	4853.4	7506.9	14174.2	24696.1	27392.4	27337.3
37.5°	4087.4	3799.4	3621.7	3450.1	3444.0	4430.6	7065.7	14309.0	25603.0	29304.4	28550.6
40°	3928.1	3744.2	3511.4	3370.4	3290.8	4216.1	6636.7	13990.4	26932.8	30076.5	29335.0
42.5°	3934.2	3658.5	3456.2	3290.8	3211.1	3903.6	6342.5	13904.6	27398.6	31332.8	29702.7
45°	3836.2	3566.5	3394.9	3198.8	3156.0	3664.6	6060.7	13506.2	28219.7	31394.1	29243.1
47.5°	3738.1	3499.1	3315.3	3082.4	2984.4	3578.8	5840.0	13175.3	27790.8	30818.0	28605.8
50°	3670.7	3394.9	3223.4	3057.9	2782.1	3431.7	5552.0	13095.7	27190.2	30039.8	27423.1
52.5°	3554.3	3309.2	3131.4	3002.8	2561.5	3296.9	5441.7	13561.4	27925.6	29457.6	27079.9
55°	3444.0	3192.7	2966.0	2714.7	2377.7	2941.5	5135.3	13996.5	28998.0	30799.6	28636.4
57.5°	3327.5	3088.5	2843.4	2543.1	2200.0	2573.8	4816.7	14076.2	26988.0	28464.8	27184.1
60°	3174.3	2867.9	2684.1	2291.9	2010.0	2132.6	3817.8	12409.3	20933.5	23770.7	23813.6
62.5°	3002.8	2671.8	2512.5	2052.9	1813.9	1838.4	3113.1	10430.0	16980.9	19677.2	20847.7
65°	2776.0	2457.4	2267.4	1899.7	1673.0	1593.3	2279.6	7641.7	12899.6	15963.6	17293.4
67.5°	2481.9	2181.6	1942.6	1654.6	1495.2	1366.6	1556.5	4301.9	7617.2	10718.0	11122.4
70°	2169.3	1912.0	1660.7	1421.7	1244.0	1152.1	1139.8	1905.8	3640.1	5766.5	6563.2
72.5°	1709.7	1525.9	1323.7	1145.9	1029.5	894.7	815.0	790.5	1231.7	2347.0	3241.7
75°	1225.6	1072.4	956.0	839.5	753.8	680.2	618.9	563.8	514.8	588.3	808.9
77.5°	772.1	717.0	625.1	594.4	545.4	527.0	502.5	471.9	435.1	410.6	410.6
80°	520.9	484.1	453.5	447.3	429.0	422.8	429.0	398.3	361.6	330.9	343.2
82.5°	349.3	343.2	337.0	330.9	337.0	343.2	355.4	349.3	318.7	300.3	306.4
85°	208.4	220.6	232.9	245.1	269.6	239.0	196.1	165.5	147.1	134.8	128.7
87.5°	79.7	110.3	98.0	91.9	98.0	91.9	85.8	79.7	67.4	61.3	61.3
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	18764.1	18764.1	18764.1	18764.1	18764.1	18764.1	18764.1	18764.1	18764.1	18764.1
2.5°	20290.0	20412.6	20516.7	20492.2	20277.8	19989.7	19873.3	19278.9	19156.3	19076.7
5°	20565.8	21276.6	21429.8	21337.9	20780.3	20075.5	19389.2	18519.0	18010.4	17992.0
7.5°	20057.1	20933.5	21209.2	21417.6	20676.1	19450.5	18273.9	16968.6	16649.9	16674.5
10°	18764.1	20161.3	20841.5	21056.0	20204.2	19144.1	17514.0	16190.3	15510.1	15497.9
12.5°	18047.1	19144.1	19334.0	19634.3	19383.1	18310.6	17072.8	15589.8	14928.0	14915.7
15°	17409.8	18132.9	18188.1	18610.9	18745.7	18022.6	17189.2	15608.2	15075.0	15019.9
17.5°	17967.5	17465.0	17256.6	17311.8	17710.1	17973.6	17863.3	16649.9	16104.5	15798.1
20°	18341.3	17219.9	16588.7	16649.9	17121.8	18083.9	18868.3	18157.4	17293.4	17330.2
22.5°	19340.2	17256.6	16270.0	16202.6	16950.2	18659.9	20002.0	20063.3	19229.9	19027.6
25°	20835.4	17679.5	16172.0	16153.6	16870.6	19278.9	21325.7	22318.4	21466.6	21092.8
27.5°	22036.5	18341.3	16478.4	16539.6	17121.8	19781.4	22453.2	23770.7	23121.2	22661.6
30°	23090.5	19027.6	16907.3	16625.4	17795.9	20044.9	22937.3	25425.3	24904.4	24524.5
32.5°	23525.6	20002.0	17587.5	17121.8	18353.5	20363.5	23942.3	27030.9	26583.5	25645.9
35°	24261.0	20547.4	17955.2	17918.5	19327.9	21129.6	24414.2	28091.0	27907.2	27073.8
37.5°	24849.3	21098.9	19260.5	18856.0	20663.8	22416.4	25174.1	29555.6	29132.8	28740.6
40°	25302.8	22085.5	20480.0	21013.1	22306.1	23586.9	25872.7	29647.6	30867.0	29727.2
42.5°	24886.1	22968.0	22483.9	23758.5	24984.1	24922.8	25952.3	30358.4	31271.5	30677.1
45°	24781.9	24463.2	25652.1	26810.3	27092.2	26032.0	25382.4	29574.0	31148.9	30885.4
47.5°	24530.6	25934.0	28005.2	29892.7	29463.7	26773.5	24702.2	29433.1	31222.5	30750.6
50°	24444.8	26252.6	29745.6	31584.0	31326.6	27416.9	24383.6	28526.1	30701.6	30658.7
52.5°	24438.7	26908.3	30468.7	32503.2	32662.6	28434.2	24818.6	28985.7	31106.0	31467.6
55°	24714.5	26700.0	30376.8	31994.6	31933.3	27980.7	24867.7	29292.1	31602.4	31957.8
57.5°	23311.1	23917.8	25069.9	26350.7	26019.7	23176.3	22208.1	27079.9	29004.1	28746.7
60°	20130.7	18231.0	16931.8	16870.6	16227.1	15338.5	18175.8	24169.1	24169.1	23917.8
62.5°	17630.4	11968.1	10282.9	9804.9	10264.5	11287.9	17532.4	23507.2	22839.3	22551.3
65°	15418.2	9136.9	7433.3	7298.5	8095.2	9639.4	15853.3	20026.5	18849.9	17893.9
67.5°	9921.3	6691.8	5527.5	5288.5	6250.6	7077.9	10552.5	12317.4	11575.9	11202.1
70°	6397.7	4357.1	3076.3	2886.3	3260.1	4363.2	6740.9	7182.1	6103.5	5852.3
72.5°	3027.3	1881.3	1078.5	888.6	998.9	1666.8	2665.7	2867.9	2383.8	2181.6
75°	962.1	692.5	441.2	379.9	361.6	429.0	612.8	471.9	343.2	337.0
77.5°	429.0	410.6	349.3	294.1	257.4	214.5	177.7	147.1	153.2	159.3
80°	355.4	324.8	288.0	257.4	214.5	165.5	128.7	98.0	98.0	104.2
82.5°	312.5	281.9	251.3	214.5	183.8	134.8	98.0	67.4	61.3	61.3
85°	134.8	159.3	171.6	183.8	147.1	110.3	67.4	42.9	36.8	36.8
87.5°	55.2	49.0	42.9	36.8	30.6	30.6	24.5	18.4	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)