

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: P940622

Luminaire Tested: **GALN-SB3D-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3D-740-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32020 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

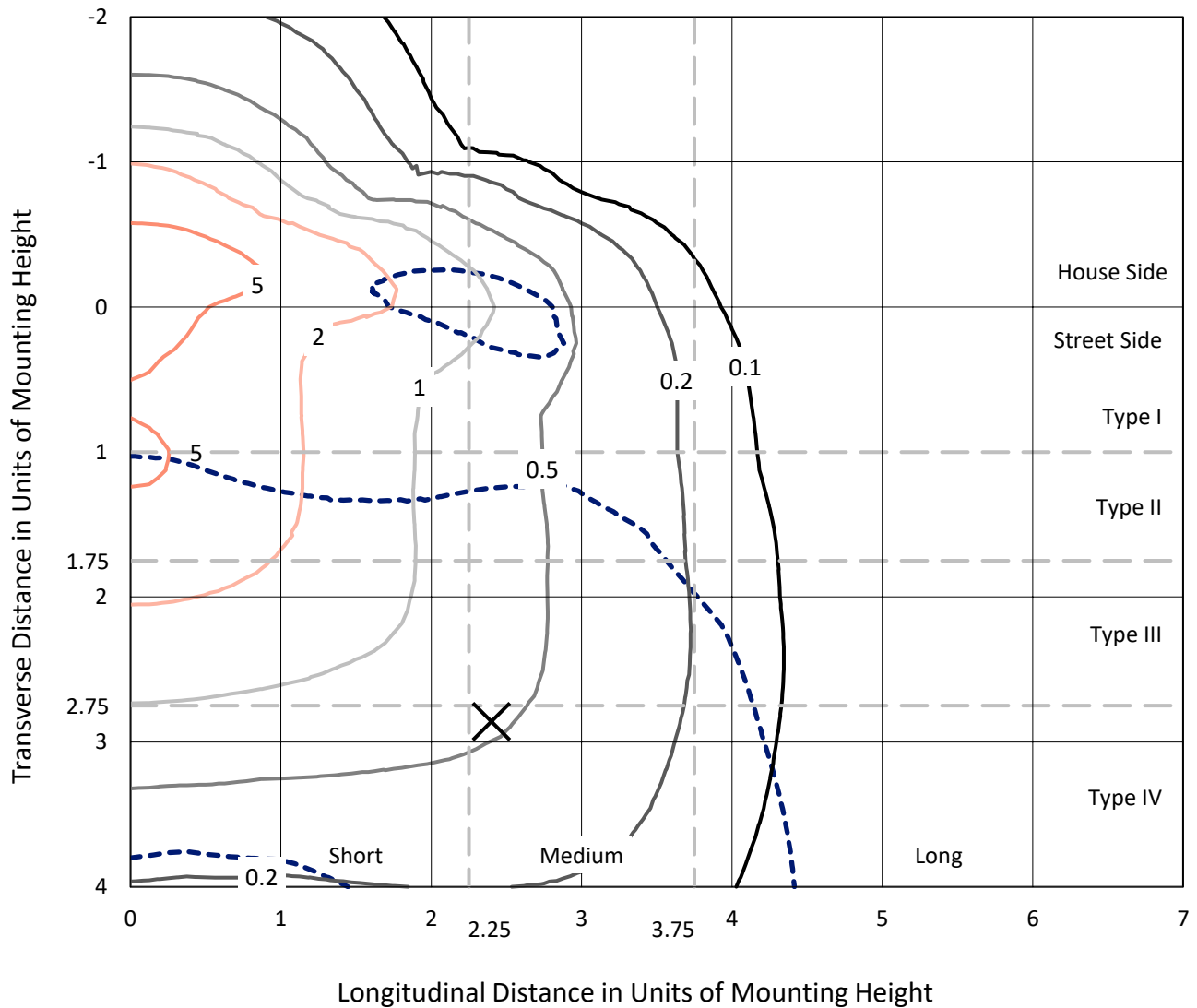
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

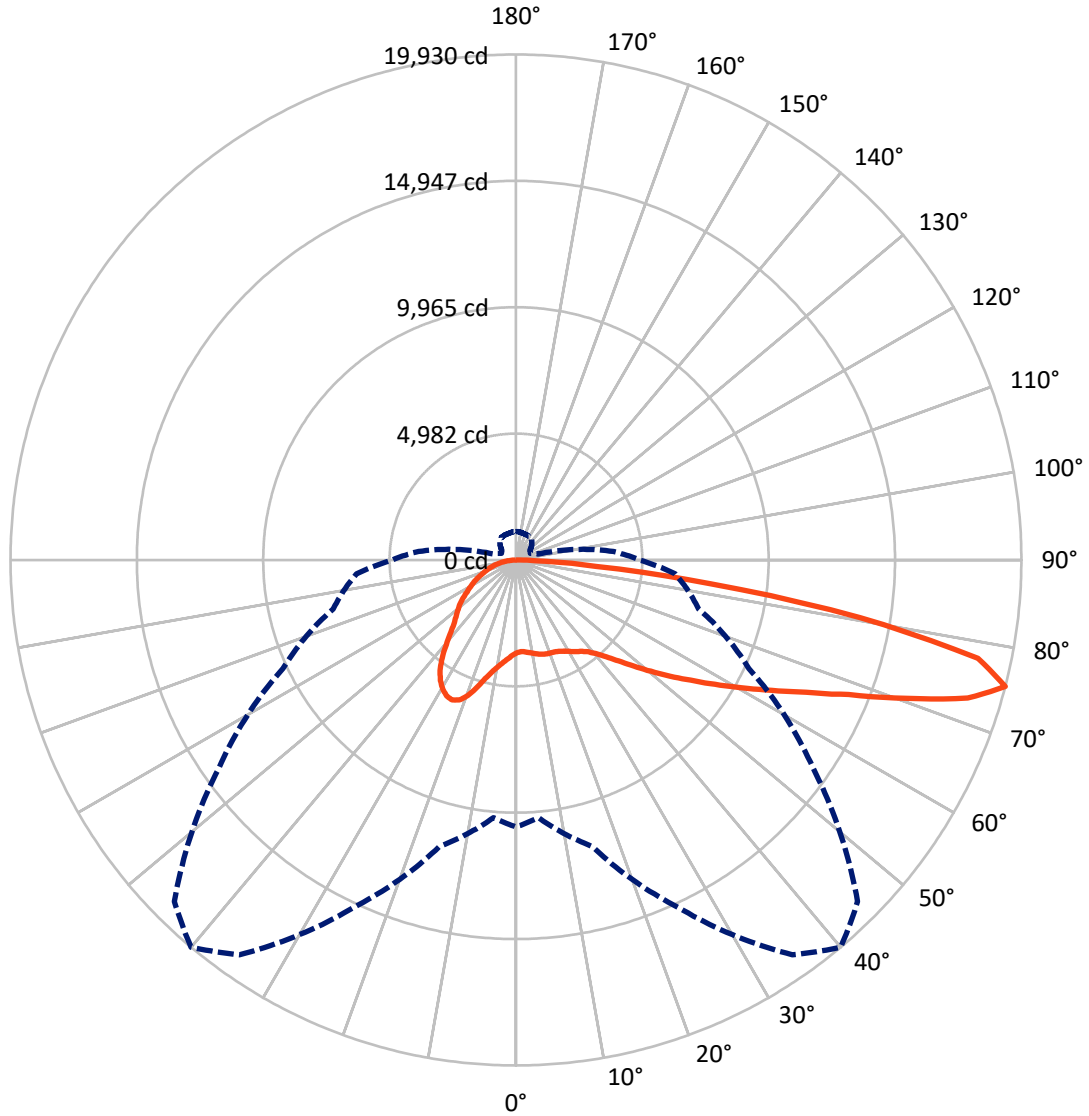
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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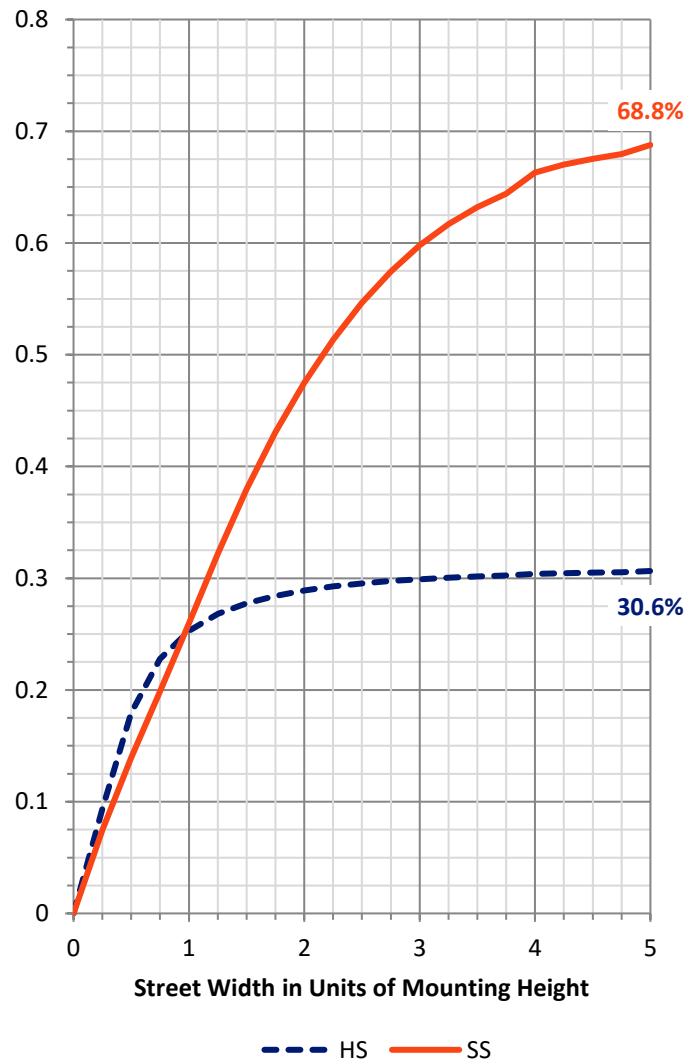
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9920.9	0.0	9920.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	22099.1	0.0	22099.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	32020.0	0.0	32020.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.5	1.1
10°-20°	1227.1	3.8
20°-30°	2240.6	7.0
30°-40°	3177.8	9.9
40°-50°	4291.0	13.4
50°-60°	5772.6	18.0
60°-70°	7326.7	22.9
70°-80°	6649.4	20.8
80°-90°	969.3	3.0
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°	32020.0	100.0
0°-180°	32020.0	100.0



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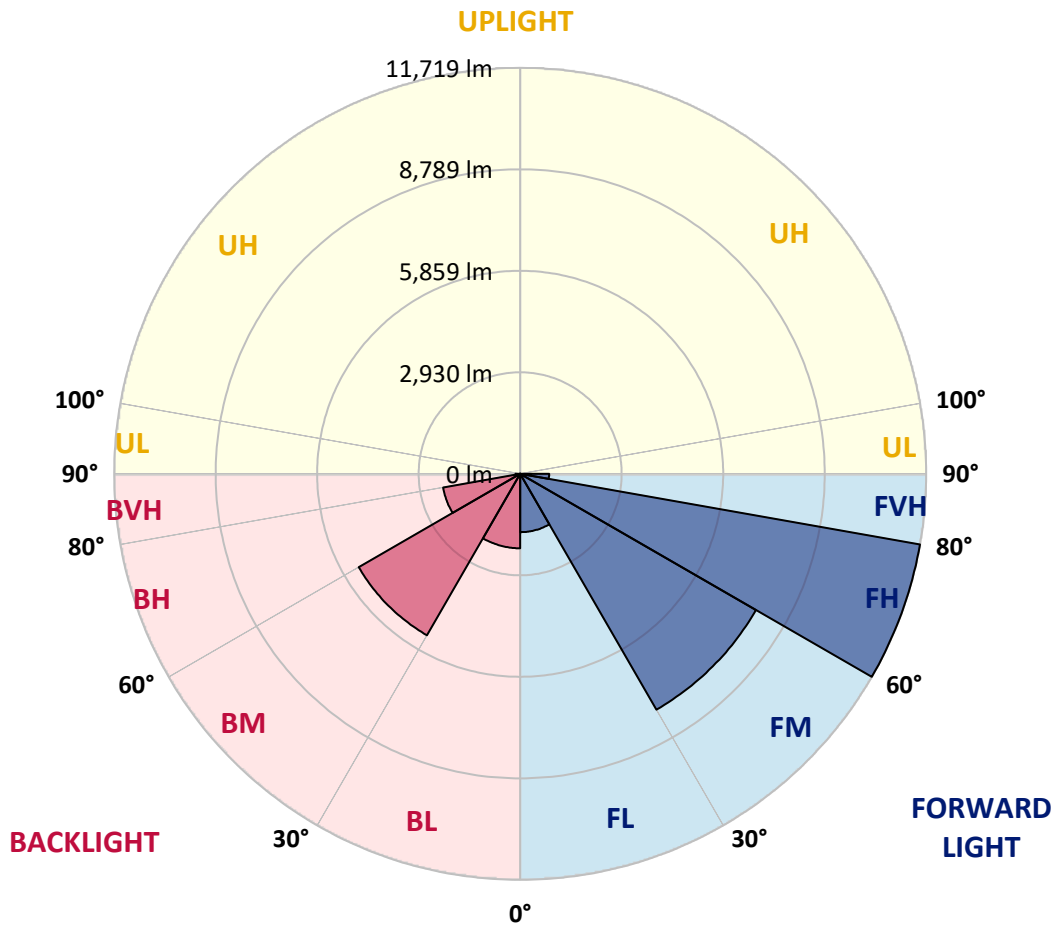
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1684.3	5.3			
FM (30°-60°)	7860.2	24.5			
FH (60°-80°)	11718.8	36.6			G4/12000
FVH (80°-90°)	835.8	2.6			G5
BL (0°-30°)	2148.9	6.7	B3/2500		
BM (30°-60°)	5381.2	16.8	B4/8500		
BH (60°-80°)	2257.3	7.0	B3/2500		G3/2500
BVH (80°-90°)	133.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3661.5	3661.5	3661.5	3661.5	3661.5	3661.5	3661.5	3661.5	3661.5	3661.5
2.5°	3605.5	3625.9	3620.8	3614.0	3614.0	3615.7	3614.0	3625.9	3637.8	3649.6
5°	3642.8	3663.2	3653.0	3644.5	3637.8	3636.1	3631.0	3629.3	3636.1	3651.3
7.5°	3715.9	3736.3	3721.0	3705.7	3692.1	3685.3	3678.5	3668.3	3663.2	3671.7
10°	3797.4	3817.8	3799.1	3771.9	3749.8	3741.3	3734.6	3724.4	3717.6	3722.7
12.5°	3878.9	3899.3	3873.8	3836.5	3807.6	3802.5	3794.0	3790.6	3788.9	3787.2
15°	3955.3	3972.3	3940.1	3895.9	3865.3	3856.8	3848.3	3853.4	3861.9	3872.1
17.5°	4014.8	4031.8	3984.2	3926.5	3897.6	3894.2	3889.1	3906.1	3929.9	3955.3
20°	4069.1	4086.1	4025.0	3946.8	3912.9	3912.9	3914.6	3950.2	3984.2	4021.6
22.5°	4145.5	4159.1	4084.4	3977.4	3928.2	3931.6	3945.1	3980.8	4023.3	4074.2
25°	4259.3	4269.5	4177.8	4035.2	3979.1	3989.3	4001.2	4018.2	4058.9	4118.4
27.5°	4442.7	4451.2	4330.7	4137.1	4052.1	4069.1	4086.1	4074.2	4092.9	4143.8
30°	4700.9	4706.0	4553.1	4296.7	4176.1	4184.6	4188.0	4138.8	4103.1	4143.8
32.5°	5006.6	5004.9	4823.2	4490.3	4317.1	4308.6	4279.7	4182.9	4099.7	4135.4
35°	5480.4	5461.7	5227.4	4762.0	4476.7	4424.1	4356.1	4232.2	4116.7	4126.9
37.5°	6265.0	6207.3	5882.9	5207.0	4714.5	4580.3	4480.1	4312.0	4154.0	4123.5
40°	7149.8	7076.8	6720.2	5816.7	5071.1	4855.4	4694.1	4425.8	4215.2	4138.8
42.5°	8199.4	8095.8	7712.0	6535.0	5522.9	5210.4	4967.5	4570.1	4305.2	4188.0
45°	9488.4	9350.8	8807.4	7345.1	6091.8	5675.7	5351.3	4789.2	4442.7	4283.1
47.5°	10791.0	10824.9	10052.2	8272.4	6774.5	6249.7	5832.0	5118.7	4643.1	4436.0
50°	12175.1	12198.9	11290.3	9299.9	7548.9	6898.5	6372.0	5487.2	4921.7	4653.3
52.5°	13255.2	13258.6	12414.6	10374.9	8355.6	7611.8	6954.5	5908.4	5244.3	4942.0
55°	13931.1	13922.6	13202.6	11392.2	9282.9	8360.7	7599.9	6387.3	5638.3	5281.7
57.5°	14421.9	14396.5	13746.0	12266.8	10271.3	9245.5	8330.1	6930.8	6103.7	5685.9
60°	14608.8	14593.5	14114.6	13022.5	11310.7	10223.8	9172.5	7538.7	6631.9	6163.1
62.5°	14680.1	14709.0	14476.3	13754.5	12423.0	11307.3	10098.1	8265.6	7226.3	6703.2
65°	14931.4	14984.1	14936.5	14712.4	13679.8	12575.9	11325.9	9130.0	7875.0	7282.3
67.5°	15429.0	15481.7	15502.1	15858.7	15215.0	14157.0	12857.8	10206.8	8634.1	7883.5
70°	15417.1	15401.9	15761.9	16770.7	17137.5	16346.1	14922.9	11531.4	9539.3	8382.8
72.5°	14033.0	13910.8	14761.6	16760.5	18737.3	18632.0	17444.9	13239.9	10320.6	8443.9
75°	10527.7	10201.7	11704.7	15104.7	19004.0	19929.5	19048.1	14299.7	10135.4	7460.6
77.5°	4502.2	4174.4	5945.7	11181.6	17008.5	18630.3	17577.4	12475.7	8090.7	4933.6
80°	1178.6	1176.9	1796.8	5069.4	11567.1	13757.9	12069.8	8056.7	4622.8	1762.8
82.5°	487.4	475.5	660.6	1971.7	5651.9	7720.5	6300.7	3593.6	1669.4	477.2
85°	181.7	180.0	321.0	681.0	1993.8	3184.3	2304.6	918.8	416.1	232.7
87.5°	50.9	49.3	69.6	236.1	485.7	737.1	394.0	151.1	117.2	91.7
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3661.5	0°	3661.5	3661.5	3661.5	3661.5	3661.5	3661.5	3661.5	3661.5	3661.5	3661.5
3668.3	2.5°	3673.4	3681.9	3697.2	3709.1	3724.4	3741.3	3765.1	3780.4	3795.7	3805.9
3676.8	5°	3688.7	3707.4	3746.4	3785.5	3831.4	3873.8	3923.1	3958.7	3987.6	3996.1
3707.4	7.5°	3722.7	3753.2	3819.5	3885.7	3958.7	4028.4	4099.7	4160.8	4210.1	4228.8
3761.7	10°	3782.1	3822.9	3916.3	4009.7	4106.5	4213.5	4305.2	4393.5	4463.1	4492.0
3826.3	12.5°	3856.8	3907.8	4030.1	4159.1	4293.3	4441.0	4559.9	4668.6	4755.2	4794.3
3916.3	15°	3953.6	4019.9	4176.1	4349.3	4546.3	4751.8	4903.0	5023.6	5120.4	5167.9
4009.7	17.5°	4058.9	4147.2	4344.2	4605.8	4887.7	5157.7	5334.4	5422.7	5522.9	5568.7
4096.3	20°	4160.8	4269.5	4551.4	4931.9	5307.2	5594.2	5736.8	5760.6	5767.4	5772.5
4177.8	22.5°	4266.1	4412.2	4811.3	5342.8	5745.3	5944.0	5964.4	5862.5	5719.9	5653.6
4257.6	25°	4381.6	4575.2	5150.9	5796.3	6122.4	6146.1	5989.9	5741.9	5471.9	5347.9
4322.2	27.5°	4493.7	4763.7	5558.5	6229.4	6394.1	6185.2	5848.9	5497.4	5171.3	5040.5
4368.0	30°	4605.8	4979.4	6008.6	6608.1	6518.1	6088.4	5626.5	5234.2	4906.4	4768.8
4408.8	32.5°	4719.6	5230.8	6526.6	6881.5	6496.0	5882.9	5349.6	4938.6	4649.9	4505.6
4444.4	35°	4848.6	5539.8	7017.4	7031.0	6348.2	5580.6	4984.5	4585.4	4334.1	4218.6
4486.9	37.5°	5016.8	5932.2	7450.4	7068.3	6090.1	5137.4	4531.1	4167.6	3960.4	3907.8
4549.7	40°	5225.7	6404.3	7781.6	7008.9	5708.0	4599.0	4035.2	3744.7	3627.6	3639.5
4634.7	42.5°	5497.4	6932.5	8014.3	6856.0	5176.4	4043.6	3600.4	3471.3	3527.4	3574.9
4762.0	45°	5850.6	7481.0	8158.6	6596.2	4575.2	3573.2	3343.9	3374.5	3417.0	3422.1
4967.5	47.5°	6302.4	8036.3	8253.7	6203.9	3962.1	3242.1	3180.9	3187.7	3179.2	3143.5
5274.9	50°	6866.2	8576.4	8338.6	5684.2	3440.8	3034.9	2953.3	2929.6	2812.4	2696.9
5684.2	52.5°	7508.2	9072.3	8374.3	5038.8	3034.9	2861.6	2729.2	2579.7	2360.6	2325.0
6198.8	55°	8221.5	9530.8	8282.6	4245.7	2693.5	2639.2	2438.8	2258.7	2235.0	2204.4
6876.4	57.5°	9074.0	10025.1	8095.8	3360.9	2343.7	2379.3	2184.0	2204.4	2161.9	2114.4
7747.6	60°	10006.4	10536.2	7768.0	2554.2	1981.9	2054.9	2117.8	2116.1	2104.2	2065.1
8666.4	62.5°	10845.3	10872.5	7122.7	1956.4	1664.3	1803.6	1975.1	1973.4	1963.2	1941.2
9626.0	65°	11344.6	10821.6	6045.9	1540.4	1402.8	1596.4	1781.5	1795.1	1796.8	1795.1
10347.7	67.5°	11256.3	10225.4	4568.4	1226.2	1187.1	1385.8	1589.6	1608.3	1621.9	1625.3
10439.4	70°	10257.7	8916.1	2978.8	978.2	995.2	1200.7	1407.9	1426.6	1438.5	1452.0
9058.7	72.5°	7995.6	6555.4	1705.1	791.4	827.1	1041.1	1227.9	1249.9	1256.7	1282.2
6304.1	75°	4872.4	3855.1	920.5	623.3	679.3	889.9	1049.5	1075.0	1086.9	1117.5
3096.0	77.5°	2316.5	1669.4	524.8	485.7	546.9	726.9	886.5	915.4	883.1	900.1
854.2	80°	782.9	619.9	331.2	370.2	417.8	567.2	709.9	738.8	670.8	667.4
283.6	82.5°	273.4	251.3	210.6	246.3	270.0	405.9	536.7	574.0	499.3	497.6
127.4	85°	107.0	101.9	117.2	134.2	161.3	249.6	353.2	371.9	307.4	248.0
37.4	87.5°	22.1	23.8	28.9	30.6	49.3	86.6	127.4	156.2	124.0	105.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
3661.5
3799.1
3999.5
4230.5
4493.7
4794.3
5164.5
5567.0
5786.1
5672.3
5366.6
5055.8
4784.1
4524.3
4244.0
3945.1
3680.2
3619.1
3456.0
3170.7
2712.2
2336.9
2209.5
2105.9
2051.5
1932.7
1795.1
1628.7
1458.8
1292.4
<i>1120.9</i>
886.5
660.6
473.8
244.6
96.8
0.0

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