

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: P941927

Luminaire Tested: **GALN-SB5C-940-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941927  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB5C-940-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

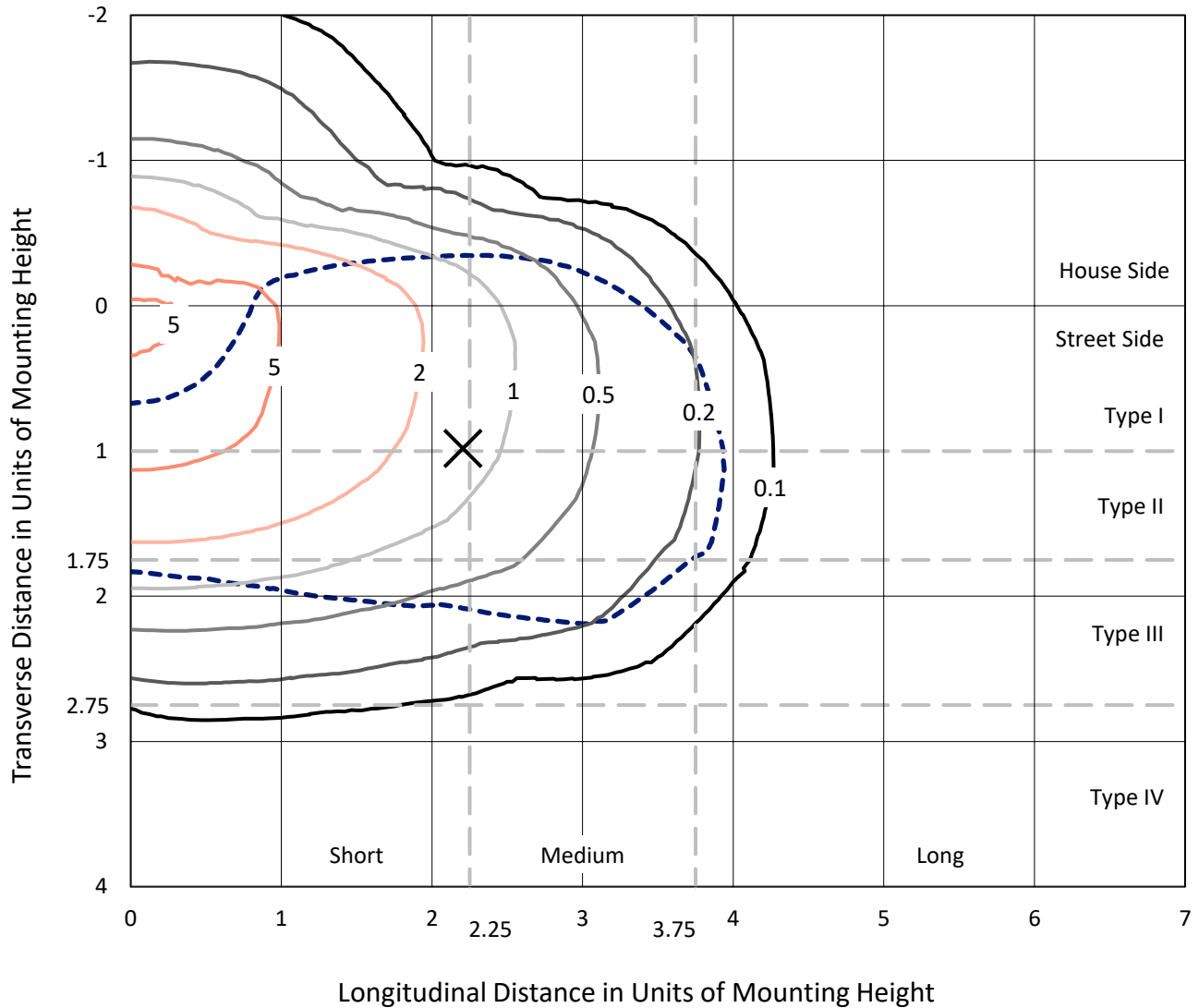
Lumens per Lamp: N/A  
Luminaire Lumens: 27432 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

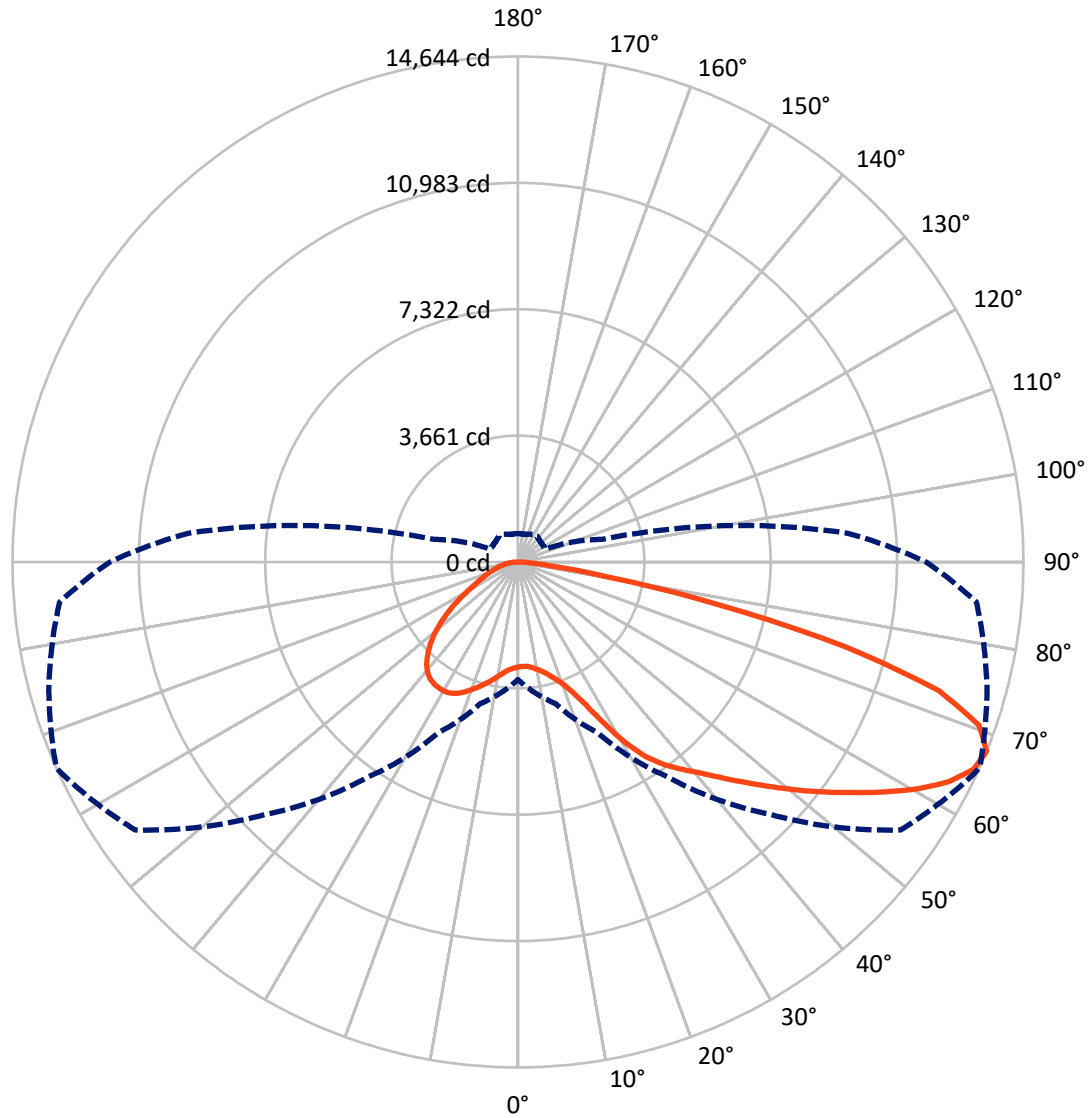
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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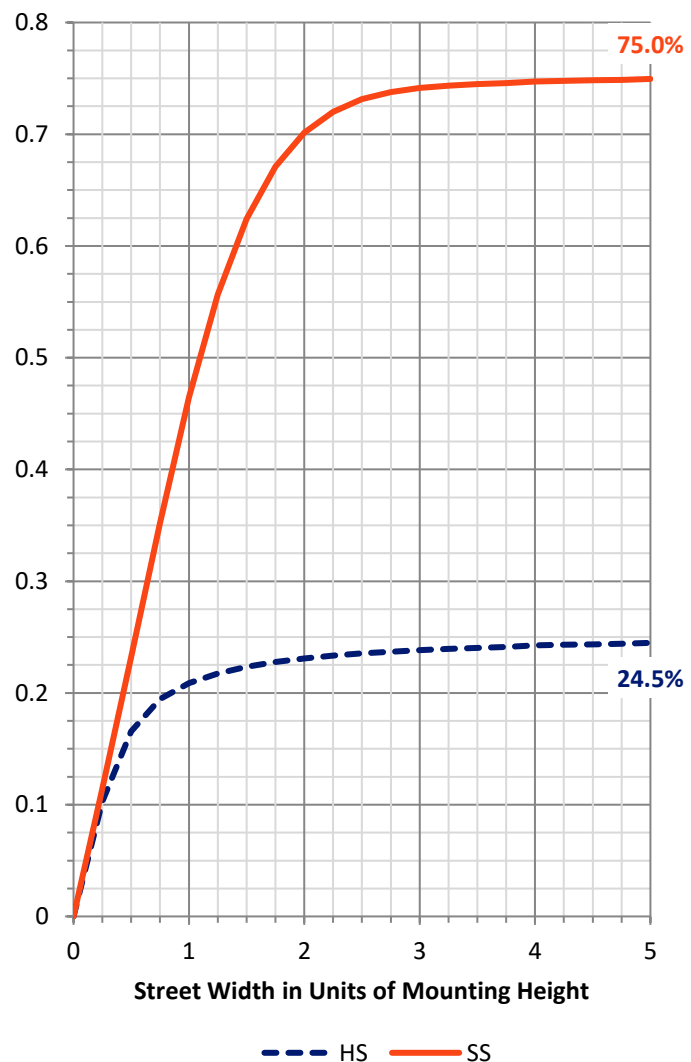
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6820.9	0.0	6820.9
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	20611.1	0.0	20611.1
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	27432.0	0.0	27432.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	301.7	1.1
10°-20°	996.6	3.6
20°-30°	1921.0	7.0
30°-40°	3368.2	12.3
40°-50°	5007.4	18.3
50°-60°	6347.3	23.1
60°-70°	6210.7	22.6
70°-80°	2962.6	10.8
80°-90°	316.6	1.2
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°	27432.0	100.0
0°-180°	27432.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P941927

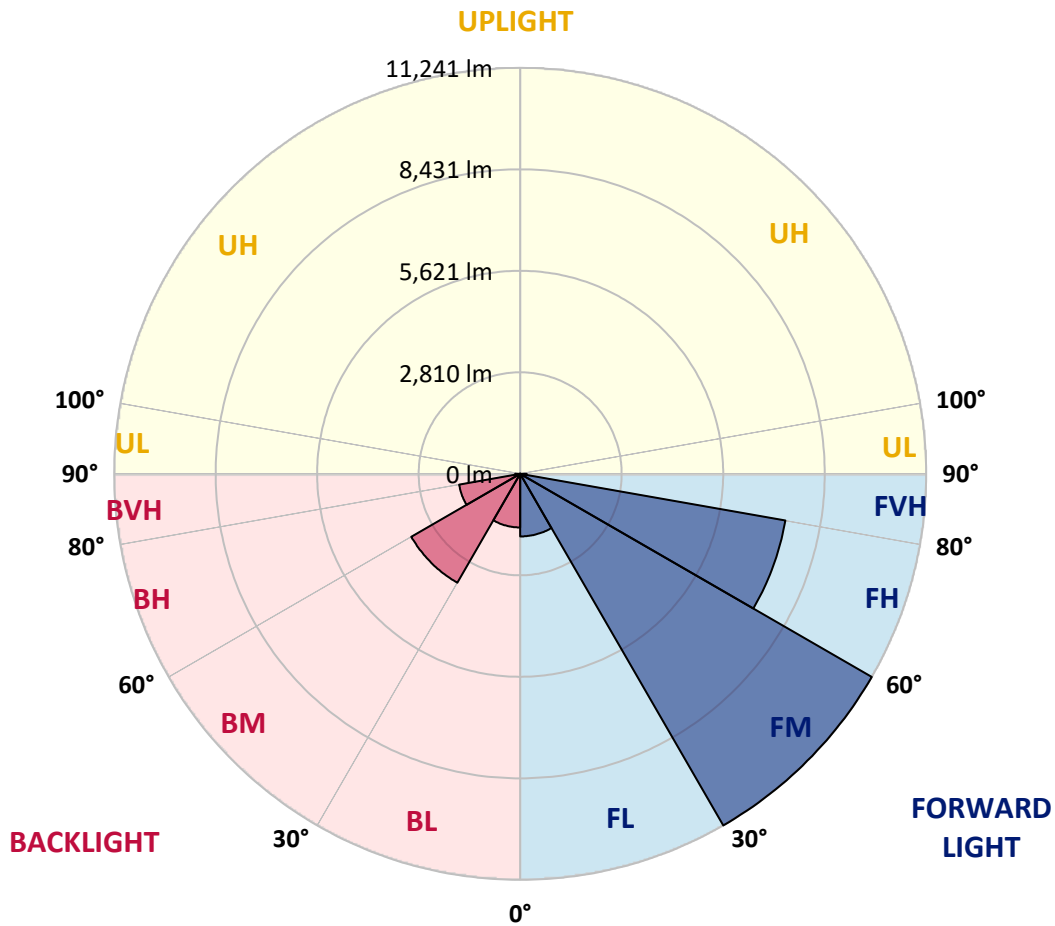
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1733.4	6.3			
FM (30°-60°)	11241.4	41.0			
FH (60°-80°)	7456.8	27.2			G3/7500
FVH (80°-90°)	179.5	0.7			G2/225
BL (0°-30°)	1485.8	5.4	B3/2500		
BM (30°-60°)	3481.5	12.7	B3/5000		
BH (60°-80°)	1716.5	6.3	B3/2500		G3/2500
BVH (80°-90°)	137.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3042.6	3042.6	3042.6	3042.6	3042.6	3042.6	3042.6	3042.6	3042.6	3042.6
2.5°	3010.9	3028.2	3023.8	3016.6	3015.2	3018.1	3022.4	3026.7	3025.3	3032.5
5°	3002.2	3019.5	3018.1	3018.1	3023.8	3035.4	3042.6	3049.8	3042.6	3051.2
7.5°	3008.0	3021.0	3026.7	3032.5	3046.9	3068.5	3085.8	3101.7	3093.0	3103.1
10°	3081.5	3091.6	3097.3	3097.3	3107.4	3131.9	3149.2	3178.1	3170.8	3186.7
12.5°	3215.5	3225.6	3225.6	3219.9	3227.1	3242.9	3248.7	3280.4	3267.4	3293.4
15°	3379.8	3400.0	3384.2	3374.1	3377.0	3392.8	3391.4	3415.9	3402.9	3424.5
17.5°	3561.4	3587.4	3561.4	3560.0	3554.2	3571.5	3573.0	3594.6	3571.5	3587.4
20°	3776.2	3812.2	3790.6	3797.8	3784.8	3792.0	3799.3	3831.0	3794.9	3806.5
22.5°	4078.9	4122.1	4099.0	4126.4	4117.8	4112.0	4110.6	4166.8	4110.6	4114.9
25°	4519.9	4571.8	4531.4	4568.9	4568.9	4587.6	4609.3	4681.3	4587.6	4560.3
27.5°	5171.4	5223.2	5144.0	5167.0	5159.8	5206.0	5182.9	5361.6	5260.7	5216.0
30°	5955.4	6047.7	5897.8	5892.0	5884.8	5958.3	5991.5	6109.6	6007.3	5962.6
32.5°	6802.9	6899.5	6720.8	6668.9	6641.5	6686.2	6658.8	6753.9	6683.3	6614.1
35°	7699.4	7794.5	7624.4	7523.6	7414.0	7320.3	7222.3	7246.8	7180.5	7075.3
37.5°	8546.9	8721.3	8541.1	8433.0	8231.2	8048.2	7774.3	7660.5	7598.5	7501.9
40°	9410.2	9509.7	9372.7	9280.5	9061.4	8774.6	8336.4	8095.7	8012.2	7918.5
42.5°	10045.8	10140.9	10067.4	10004.0	9832.5	9499.6	8933.1	8631.9	8510.8	8405.6
45°	10550.3	10620.9	10574.8	10597.8	10524.3	10201.5	9551.5	9207.0	9081.6	8953.3
47.5°	10753.5	10828.4	10901.9	11038.9	11164.3	10926.4	10215.9	9829.6	9697.0	9565.9
50°	10730.4	10806.8	11020.1	11311.3	11700.4	11621.2	10916.4	10492.6	10370.1	10220.2
52.5°	10545.9	10632.4	10906.3	11390.5	12010.3	12141.5	11629.8	11177.2	11061.9	10883.2
55°	10061.7	10113.6	10524.3	11210.4	12083.8	12504.7	12328.8	11906.5	11791.2	11541.9
57.5°	9163.7	9238.7	9836.8	10724.7	11899.3	12751.1	12942.8	12673.3	12562.3	12203.4
60°	7992.0	8111.6	8796.2	9908.9	11429.5	12749.7	13500.6	13427.1	13334.9	12854.9
62.5°	6666.0	6804.3	7463.0	8755.9	10607.9	12387.9	13849.4	14058.4	14010.8	13455.9
65°	5119.5	5214.6	5870.4	7264.1	9329.5	11611.1	13889.7	14489.3	14498.0	13912.8
67.5°	3408.7	3682.5	4251.8	5451.0	7617.2	10341.3	13535.2	14560.0	14643.5	14069.9
70°	1663.3	2023.6	2581.4	3542.7	5451.0	8394.1	12608.4	13980.6	14166.5	13611.6
72.5°	690.4	807.1	1111.2	1748.3	3129.0	5664.3	10746.3	12409.5	12754.0	12060.7
75°	465.5	504.5	635.6	896.5	1425.4	2793.2	7749.8	9253.1	9808.0	9109.0
77.5°	358.9	383.4	462.7	627.0	847.5	1056.5	4148.0	5576.4	5863.2	5427.9
80°	282.5	301.2	345.9	456.9	601.0	565.0	1413.9	2526.6	2692.3	2258.5
82.5°	245.0	252.2	247.9	309.9	399.2	330.1	464.1	932.5	1029.1	746.6
85°	177.3	197.5	206.1	191.7	211.9	167.2	190.3	330.1	363.2	324.3
87.5°	72.1	106.7	131.2	124.0	77.8	47.6	59.1	96.6	111.0	121.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941927  
 CATALOG NUMBER: GALN-SB5C-940-U-T3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3042.6	0°	3042.6	3042.6	3042.6	3042.6	3042.6	3042.6	3042.6	3042.6	3042.6	3042.6
3044.0	2.5°	3045.5	3055.5	3062.7	3071.4	3077.2	3085.8	3103.1	3113.2	3114.6	3121.8
3067.1	5°	3072.8	3087.3	3103.1	3126.2	3152.1	3173.7	3206.9	3229.9	3238.6	3245.8
3123.3	7.5°	3131.9	3152.1	3180.9	3221.3	3258.8	3287.6	3327.9	3355.3	3382.7	3392.8
3212.6	10°	3219.9	3248.7	3290.5	3345.2	3385.6	3423.1	3464.9	3487.9	3515.3	3526.8
3319.3	12.5°	3329.4	3359.7	3414.4	3490.8	3528.3	3554.2	3568.6	3562.9	3568.6	3578.7
3447.6	15°	3454.8	3487.9	3549.9	3632.1	3658.0	3634.9	3603.2	3574.4	3570.1	3573.0
3603.2	17.5°	3603.2	3627.7	3699.8	3769.0	3750.2	3655.1	3585.9	3539.8	3516.8	3509.6
3802.1	20°	3810.8	3810.8	3869.9	3913.1	3787.7	3626.3	3518.2	3443.3	3395.7	3375.5
4073.1	22.5°	4063.0	4039.9	4077.4	4047.2	3780.5	3545.6	3395.7	3266.0	3193.9	3165.1
4452.2	25°	4383.0	4355.6	4345.5	4158.1	3728.6	3417.3	3173.7	3016.6	2953.2	2937.4
4998.4	27.5°	4865.8	4796.6	4665.5	4218.7	3633.5	3215.5	2914.3	2768.7	2732.7	2734.1
5700.3	30°	5508.6	5370.3	5048.9	4228.8	3477.8	2930.2	2649.1	2545.3	2528.0	2535.2
6289.8	32.5°	6103.9	5972.7	5440.9	4182.6	3238.6	2650.5	2411.3	2342.1	2316.2	2324.8
6739.5	35°	6570.9	6534.8	5804.1	4117.8	2944.6	2388.2	2198.0	2138.9	2088.4	2076.9
7163.2	37.5°	7011.9	6997.5	6076.5	4027.0	2653.4	2202.3	2026.5	1948.6	1875.1	1834.8
7631.7	40°	7496.2	7481.8	6255.2	3887.2	2395.4	2040.9	1872.2	1769.9	1679.1	1605.6
8162.0	42.5°	8041.0	7955.9	6340.3	3686.8	2176.4	1903.9	1746.8	1608.5	1488.9	1421.1
8761.6	45°	8636.2	8444.5	6338.8	3431.7	1991.9	1778.6	1612.8	1416.8	1305.8	1242.4
9377.1	47.5°	9267.5	8911.5	6261.0	3149.2	1813.1	1640.2	1405.3	1255.4	1181.9	1142.9
10045.8	50°	9919.0	9348.2	6128.4	2824.9	1630.1	1483.1	1275.5	1173.2	1117.0	1081.0
10708.8	52.5°	10531.5	9744.6	5968.4	2457.4	1444.2	1330.3	1217.9	1138.6	1079.5	1039.2
11351.6	55°	11100.8	10086.2	5742.1	2081.2	1292.8	1228.0	1190.5	1124.2	1056.5	1008.9
12004.5	57.5°	11606.7	10308.1	5351.5	1728.1	1184.7	1157.4	1161.7	1099.7	1021.9	981.5
12647.4	60°	12027.6	10471.0	4773.6	1400.9	1096.8	1088.2	1117.0	1053.6	962.8	916.7
13190.7	62.5°	12279.8	10468.1	4064.4	1147.3	1021.9	1024.8	1057.9	995.9	903.7	860.5
13474.7	65°	12258.2	10211.6	3286.1	981.5	949.8	952.7	995.9	932.5	854.7	828.7
13332.0	67.5°	11824.4	9586.0	2520.8	873.4	870.5	883.5	934.0	889.3	824.4	821.5
12481.6	70°	10649.7	8287.4	1816.0	786.9	788.4	807.1	873.4	861.9	808.6	814.3
10494.1	72.5°	8539.7	6318.6	1219.3	696.1	697.6	727.9	815.8	840.3	792.7	869.1
7445.7	75°	5687.3	3940.5	784.1	599.6	601.0	639.9	765.3	798.5	749.5	866.2
3874.2	77.5°	2732.7	1771.4	567.9	504.5	504.5	540.5	661.6	714.9	638.5	673.1
1245.3	80°	944.0	665.9	446.8	406.4	397.8	422.3	557.8	619.8	550.6	507.3
406.4	82.5°	371.9	345.9	358.9	315.6	286.8	302.7	433.8	511.7	405.0	366.1
229.2	85°	213.3	224.8	253.7	209.0	165.7	185.9	318.5	367.5	305.6	269.5
74.9	87.5°	57.7	79.3	116.7	108.1	74.9	79.3	151.3	203.2	175.8	135.5
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

180°  
3042.6  
3120.4  
3244.4  
3394.2  
3532.6  
3581.6  
3583.1  
3519.6  
3371.2  
3160.8  
2940.2  
2738.5  
2559.7  
2336.3  
2085.6  
1836.2  
1612.8  
1425.4  
1239.5  
1134.3  
1068.0  
1021.9  
990.2  
955.6  
896.5  
847.5  
827.3  
825.9  
812.9  
880.6  
873.4  
616.9  
475.6  
364.6  
275.3  
139.8  
0.0

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