

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: P941167

Luminaire Tested: **GALN-SB4C-827-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941167  
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-SB4C-827-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

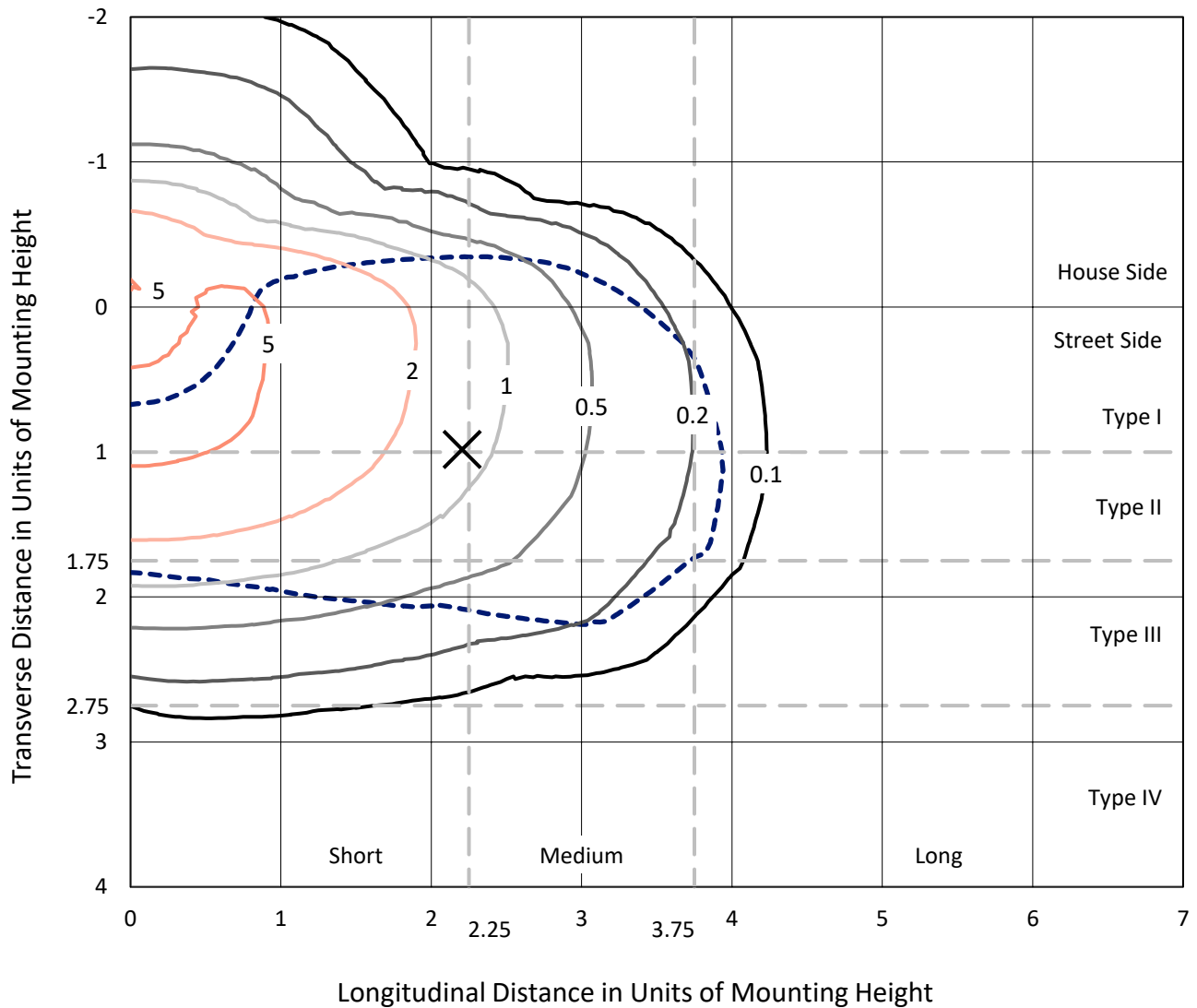
Lumens per Lamp: N/A  
Luminaire Lumens: 26117 lumens  
Efficiency: N/A  
Efficacy: 130.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

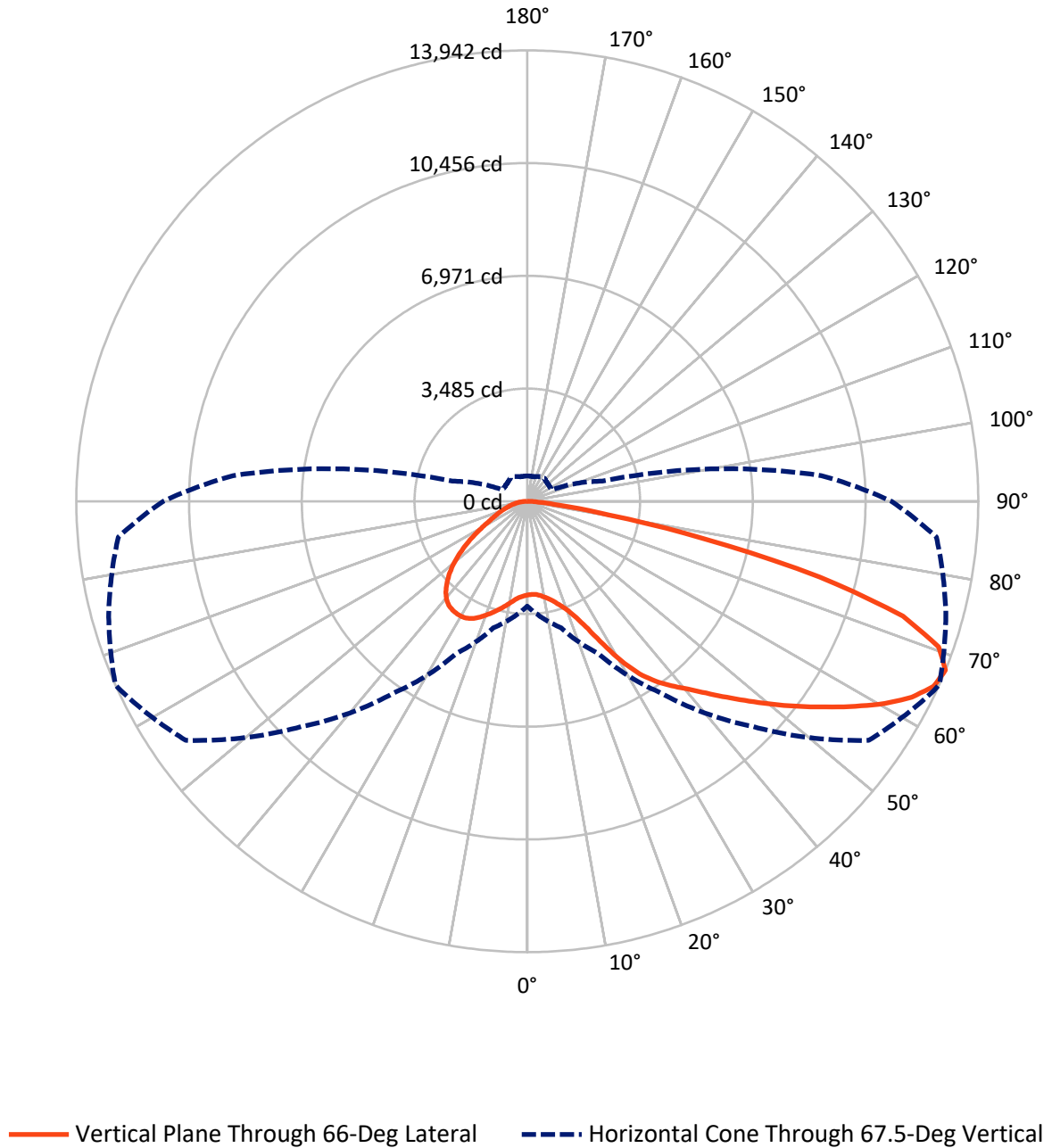
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6493.9	0.0	6493.9
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	19623.1	0.0	19623.1
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	26117.0	0.0	26117.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.2	1.1
10°-20°	948.9	3.6
20°-30°	1828.9	7.0
30°-40°	3206.7	12.3
40°-50°	4767.3	18.3
50°-60°	6043.1	23.1
60°-70°	5913.0	22.6
70°-80°	2820.5	10.8
80°-90°	301.4	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°	26117.0	100.0
0°-180°	26117.0	100.0

**Coefficient of Utilization**



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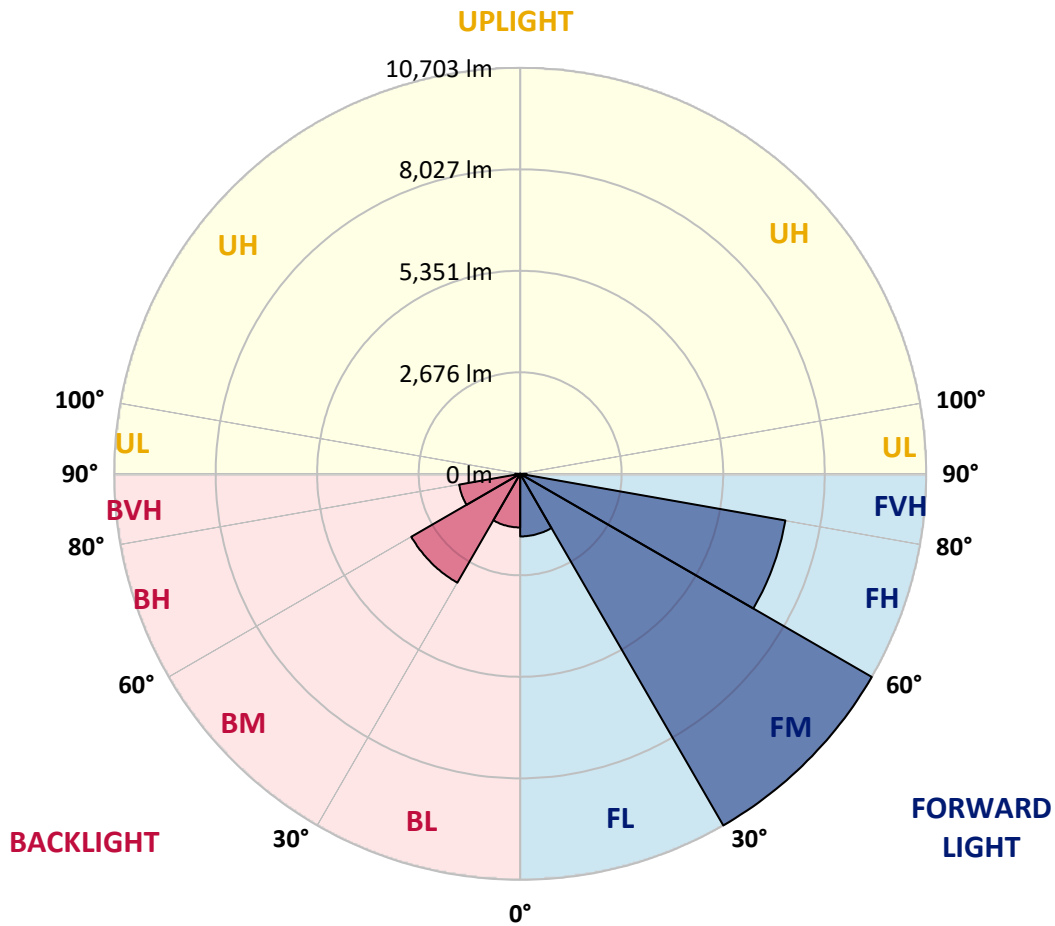
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1650.3	6.3			
FM (30°-60°)	10702.5	41.0			
FH (60°-80°)	7099.3	27.2			G3/7500
FVH (80°-90°)	170.9	0.7			G2/225
BL (0°-30°)	1414.6	5.4	B3/2500		
BM (30°-60°)	3314.6	12.7	B3/5000		
BH (60°-80°)	1634.2	6.3	B3/2500		G3/2500
BVH (80°-90°)	130.5	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°	2896.7	2896.7	2896.7	2896.7	2896.7	2896.7	2896.7	2896.7	2896.7	2896.7
2.5°	2866.5	2883.0	2878.9	2872.0	2870.6	2873.4	2877.5	2881.6	2880.3	2887.1
5°	2858.3	2874.8	2873.4	2873.4	2878.9	2889.9	2896.7	2903.6	2896.7	2905.0
7.5°	2863.8	2876.1	2881.6	2887.1	2900.8	2921.4	2937.9	2953.0	2944.7	2954.4
10°	2933.8	2943.4	2948.9	2948.9	2958.5	2981.8	2998.3	3025.7	3018.8	3033.9
12.5°	3061.4	3071.0	3071.0	3065.5	3072.4	3087.5	3092.9	3123.1	3110.8	3135.5
15°	3217.8	3237.0	3221.9	3212.3	3215.1	3230.2	3228.8	3252.1	3239.8	3260.4
17.5°	3390.7	3415.4	3390.7	3389.3	3383.9	3400.3	3401.7	3422.3	3400.3	3415.4
20°	3595.2	3629.5	3608.9	3615.8	3603.4	3610.3	3617.1	3647.3	3613.0	3624.0
22.5°	3883.3	3924.5	3902.5	3928.6	3920.4	3914.9	3913.5	3967.0	3913.5	3917.6
25°	4303.2	4352.6	4314.2	4349.9	4349.9	4367.7	4388.3	4456.9	4367.7	4341.7
27.5°	4923.5	4972.9	4897.4	4919.3	4912.5	4956.4	4934.4	5104.6	5008.5	4966.0
30°	5669.9	5757.8	5615.1	5609.6	5602.7	5672.7	5704.2	5816.8	5719.3	5676.8
32.5°	6476.8	6568.7	6398.6	6349.2	6323.1	6365.6	6339.6	6430.1	6362.9	6297.0
35°	7330.3	7420.9	7259.0	7162.9	7058.6	6969.4	6876.1	6899.4	6836.3	6736.1
37.5°	8137.2	8303.2	8131.7	8028.8	7836.7	7662.4	7401.7	7293.3	7234.3	7142.3
40°	8959.1	9053.8	8923.4	8835.6	8627.0	8354.0	7936.8	7707.7	7628.1	7538.9
42.5°	9564.3	9654.8	9584.8	9524.5	9361.2	9044.2	8504.9	8218.1	8102.9	8002.7
45°	10044.5	10111.8	10067.9	10089.8	10019.8	9712.5	9093.6	8765.6	8646.3	8524.1
47.5°	10238.0	10309.4	10379.3	10509.7	10629.1	10402.7	9726.2	9358.4	9232.2	9107.3
50°	10216.1	10288.8	10491.9	10769.0	11139.5	11064.1	10393.1	9989.6	9873.0	9730.3
52.5°	10040.4	10122.7	10383.5	10844.5	11434.6	11559.4	11072.3	10641.4	10531.7	10361.5
55°	9579.3	9628.7	10019.8	10673.0	11504.5	11905.2	11737.8	11335.8	11226.0	10988.6
57.5°	8724.5	8795.8	9365.3	10210.6	11328.9	12139.9	12322.4	12065.8	11960.1	11618.4
60°	7608.9	7722.8	8374.6	9433.9	10881.6	12138.5	12853.4	12783.4	12695.6	12238.7
62.5°	6346.4	6478.2	7105.3	8336.1	10099.4	11794.1	13185.5	13384.5	13339.2	12810.9
65°	4874.1	4964.6	5589.0	6915.9	8882.3	11054.5	13223.9	13794.8	13803.0	13245.9
67.5°	3245.3	3506.0	4048.0	5189.7	7252.1	9845.6	12886.4	13862.0	13941.6	13395.4
70°	1583.5	1926.6	2457.6	3372.9	5189.7	7991.7	12004.0	13310.4	13487.4	12959.1
72.5°	657.3	768.4	1058.0	1664.5	2979.1	5392.8	10231.1	11814.7	12142.6	11482.6
75°	443.2	480.3	605.1	853.5	1357.1	2659.3	7378.3	8809.5	9337.8	8672.3
77.5°	341.7	365.0	440.5	596.9	806.9	1005.8	3949.2	5309.1	5582.1	5167.7
80°	269.0	286.8	329.3	435.0	572.2	537.9	1346.1	2405.5	2563.3	2150.2
82.5°	233.3	240.1	236.0	295.0	380.1	314.2	441.8	887.8	979.8	710.8
85°	168.8	188.0	196.2	182.5	201.7	159.2	181.1	314.2	345.8	308.7
87.5°	68.6	101.5	124.9	118.0	74.1	45.3	56.3	91.9	105.7	115.3
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°
2896.7	0°	2896.7	2896.7	2896.7	2896.7	2896.7	2896.7	2896.7	2896.7	2896.7	2896.7
2898.1	2.5°	2899.5	2909.1	2915.9	2924.2	2929.7	2937.9	2954.4	2964.0	2965.3	2972.2
2920.0	5°	2925.5	2939.3	2954.4	2976.3	3001.0	3021.6	3053.2	3075.1	3083.3	3090.2
2973.6	7.5°	2981.8	3001.0	3028.5	3066.9	3102.6	3130.0	3168.4	3194.5	3220.6	3230.2
3058.6	10°	3065.5	3092.9	3132.7	3184.9	3223.3	3259.0	3298.8	3320.7	3346.8	3357.8
3160.2	12.5°	3169.8	3198.6	3250.7	3323.5	3359.2	3383.9	3397.6	3392.1	3397.6	3407.2
3282.3	15°	3289.2	3320.7	3379.7	3458.0	3482.7	3460.7	3430.5	3403.1	3398.9	3401.7
3430.5	17.5°	3430.5	3453.8	3522.4	3588.3	3570.5	3479.9	3414.0	3370.1	3348.2	3341.3
3619.9	20°	3628.1	3628.1	3684.4	3725.5	3606.1	3452.5	3349.5	3278.2	3232.9	3213.7
3877.8	22.5°	3868.2	3846.3	3882.0	3853.1	3599.3	3375.6	3232.9	3109.4	3040.8	3013.4
4238.7	25°	4172.9	4146.8	4137.2	3958.8	3549.9	3253.5	3021.6	2872.0	2811.6	2796.5
4758.8	27.5°	4632.6	4566.7	4441.8	4016.4	3459.3	3061.4	2774.6	2636.0	2601.7	2603.1
5427.1	30°	5244.6	5112.8	4806.8	4026.0	3311.1	2789.7	2522.1	2423.3	2406.8	2413.7
5988.3	32.5°	5811.3	5686.4	5180.1	3982.1	3083.3	2523.5	2295.7	2229.8	2205.1	2213.4
6416.4	35°	6255.9	6221.6	5525.9	3920.4	2803.4	2273.7	2092.6	2036.3	1988.3	1977.3
6819.8	37.5°	6675.8	6662.0	5785.2	3833.9	2526.2	2096.7	1929.3	1855.2	1785.2	1746.8
7265.8	40°	7136.8	7123.1	5955.4	3700.8	2280.6	1943.0	1782.5	1685.1	1598.6	1528.6
7770.8	42.5°	7655.5	7574.6	6036.3	3510.1	2072.0	1812.7	1663.1	1531.4	1417.5	1353.0
8341.6	45°	8222.2	8039.7	6034.9	3267.2	1896.4	1693.3	1535.5	1348.9	1243.2	1182.8
8927.6	47.5°	8823.3	8484.3	5960.8	2998.3	1726.2	1561.6	1337.9	1195.2	1125.2	1088.2
9564.3	50°	9443.5	8900.1	5834.6	2689.5	1552.0	1412.0	1214.4	1117.0	1063.5	1029.2
10195.5	52.5°	10026.7	9277.5	5682.3	2339.6	1374.9	1266.5	1159.5	1084.0	1027.8	989.4
10807.5	55°	10568.7	9602.7	5466.9	1981.5	1230.9	1169.1	1133.4	1070.3	1005.8	960.5
11429.1	57.5°	11050.4	9814.0	5095.0	1645.3	1128.0	1101.9	1106.0	1047.0	972.9	934.5
12041.1	60°	11451.0	9969.1	4544.7	1333.8	1044.2	1036.0	1063.5	1003.1	916.6	872.7
12558.4	62.5°	11691.2	9966.3	3869.6	1092.3	972.9	975.6	1007.2	948.2	860.4	819.2
12828.7	65°	11670.6	9722.1	3128.6	934.5	904.3	907.0	948.2	887.8	813.7	789.0
12692.9	67.5°	11257.6	9126.5	2400.0	831.6	828.8	841.2	889.2	846.6	784.9	782.2
11883.3	70°	10139.2	7890.2	1729.0	749.2	750.6	768.4	831.6	820.6	769.8	775.3
9991.0	72.5°	8130.3	6015.7	1160.9	662.8	664.1	693.0	776.7	800.0	754.7	827.4
7088.8	75°	5414.7	3751.6	746.5	570.8	572.2	609.3	728.6	760.2	713.5	824.7
3688.5	77.5°	2601.7	1686.4	540.6	480.3	480.3	514.6	629.8	680.6	607.9	640.8
1185.6	80°	898.8	634.0	425.4	387.0	378.7	402.1	531.0	590.0	524.2	483.0
387.0	82.5°	354.0	329.3	341.7	300.5	273.1	288.2	413.0	487.1	385.6	348.5
218.2	85°	203.1	214.1	241.5	199.0	157.8	177.0	303.3	349.9	290.9	256.6
71.4	87.5°	54.9	75.5	111.1	102.9	71.4	75.5	144.1	193.5	167.4	129.0
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°
2896.7
2970.8
3088.8
3231.5
3363.3
3409.9
3411.3
3350.9
3209.6
3009.2
2799.3
2607.2
2437.0
2224.3
1985.6
1748.2
1535.5
1357.1
1180.1
1079.9
1016.8
972.9
942.7
909.8
853.5
806.9
787.6
786.3
773.9
838.4
831.6
587.3
452.8
347.2
262.1
133.1
0.0

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