

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: P943409

Luminaire Tested: **GALN-SB7D-840-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7D-840-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68417 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

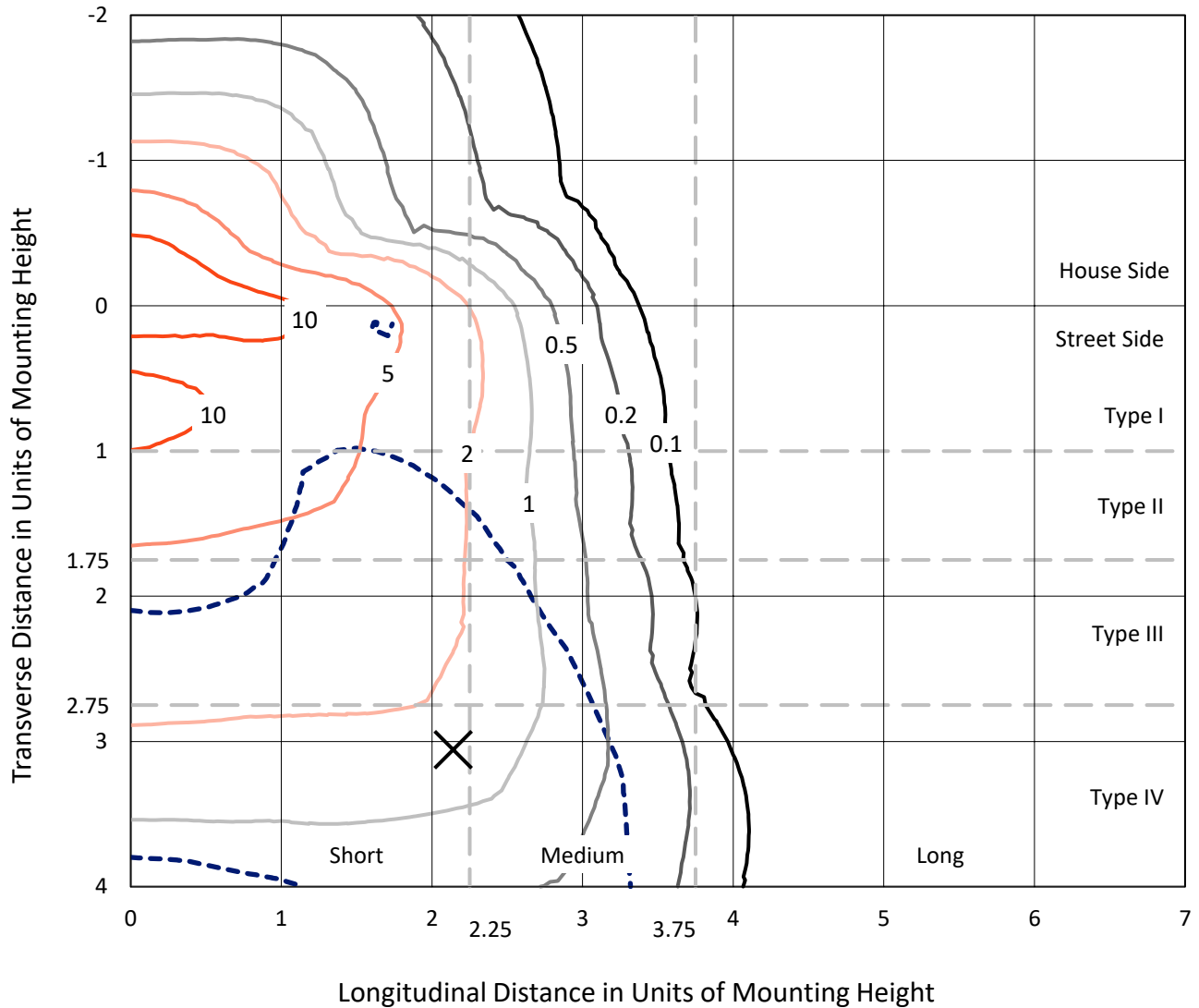
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

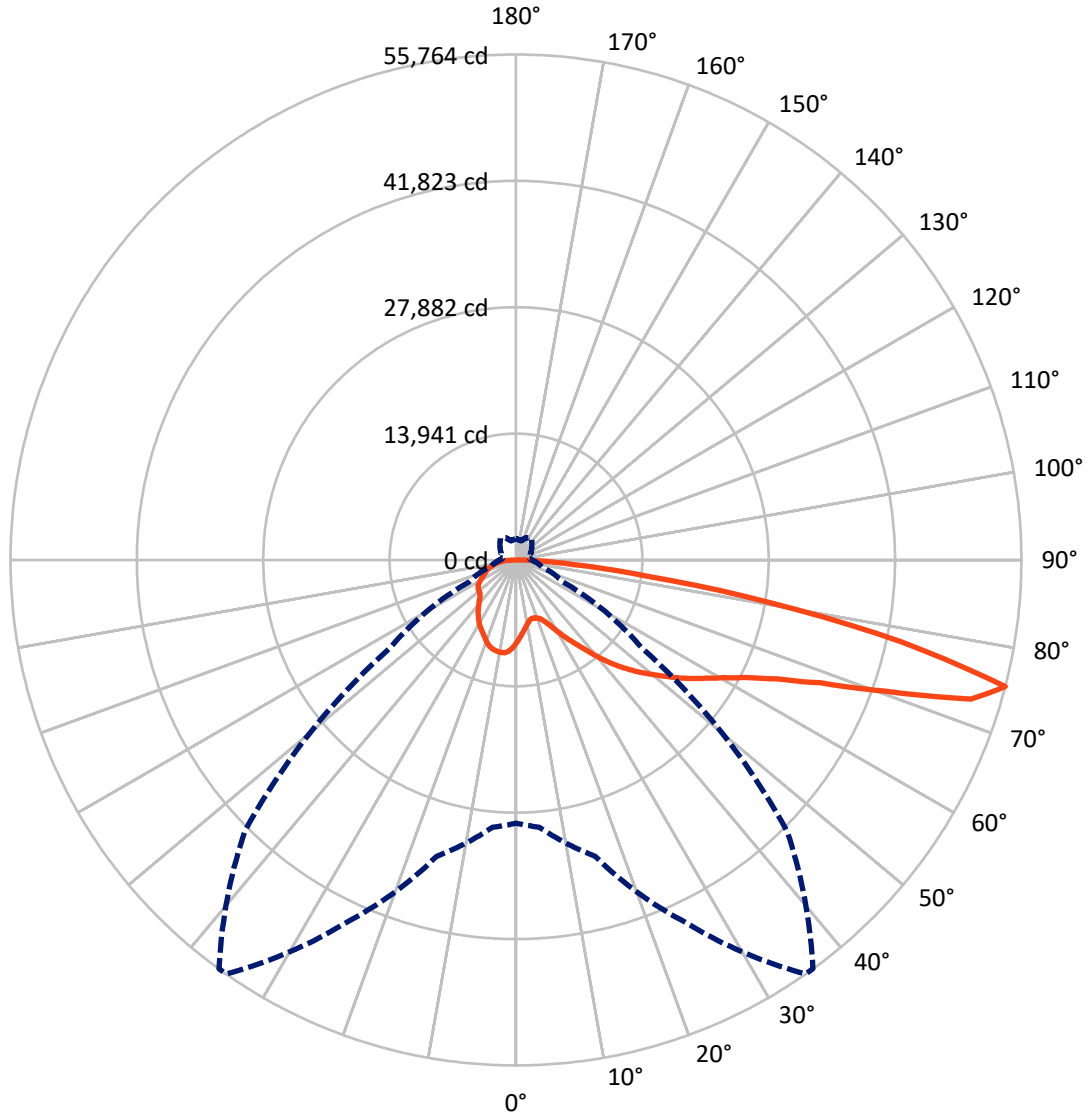
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16281.5	0.0	16281.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	52135.5	0.0	52135.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	68417.0	0.0	68417.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	863.2	1.3
10°-20°	2489.8	3.6
20°-30°	4181.1	6.1
30°-40°	6498.0	9.5
40°-50°	9644.8	14.1
50°-60°	13315.2	19.5
60°-70°	16154.4	23.6
70°-80°	13350.3	19.5
80°-90°	1920.2	2.8
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°	68417.0	100.0
0°-180°	68417.0	100.0

Coefficient of Utilization



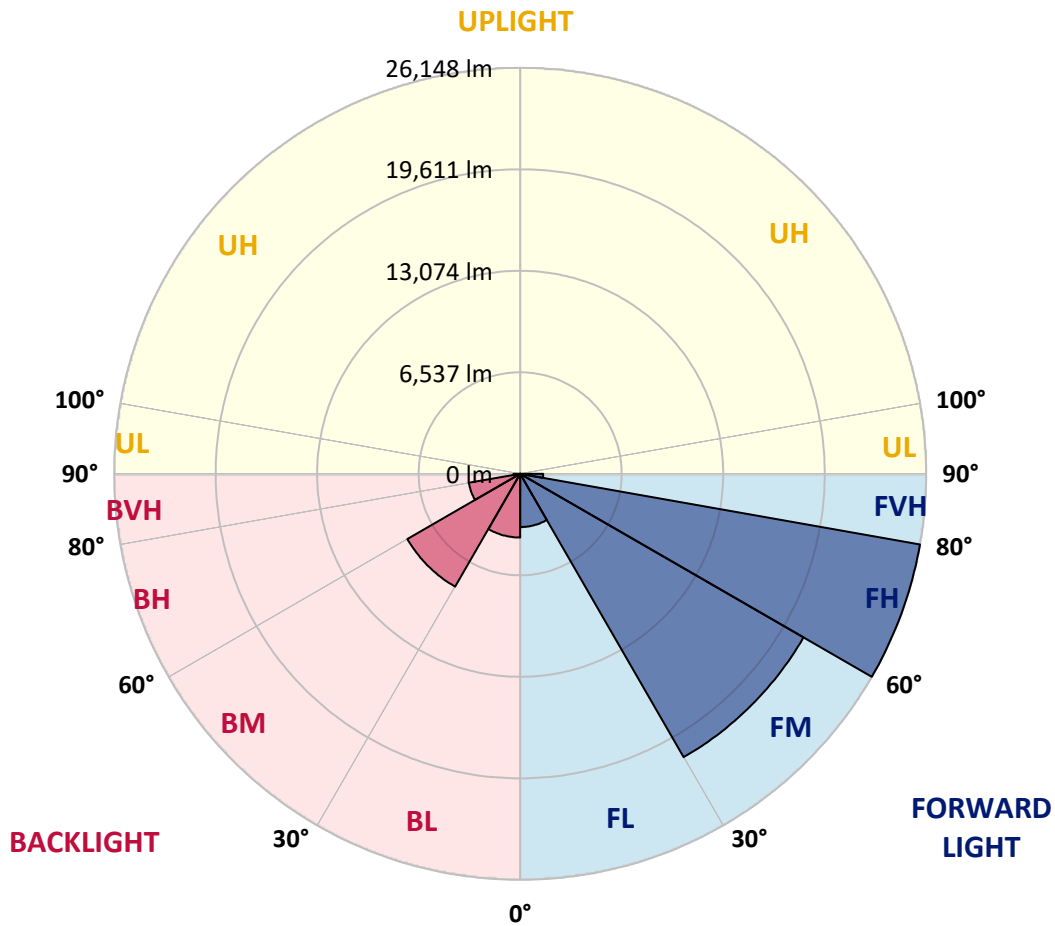
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3431.0	5.0			
FM (30°-60°)	21068.7	30.8			
FH (60°-80°)	26148.0	38.2			G5
FVH (80°-90°)	1487.8	2.2			G5
BL (0°-30°)	4103.2	6.0	B4/5000		
BM (30°-60°)	8389.2	12.3	B4/8500		
BH (60°-80°)	3356.8	4.9	B4/5000		G4/5000
BVH (80°-90°)	432.4	0.6			G3/500
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	9117.0	9117.0	9117.0	9117.0	9117.0	9117.0	9117.0	9117.0	9117.0	9117.0
2.5°	8406.9	8458.7	8480.9	8469.8	8525.3	8517.9	8595.5	8691.7	8824.8	8954.3
5°	7759.6	7815.1	7863.2	7907.6	8014.8	8048.1	8170.2	8355.1	8599.2	8847.0
7.5°	7156.8	7204.9	7278.8	7360.2	7541.4	7574.7	7778.1	8066.6	8406.9	8769.4
10°	6664.9	6712.9	6790.6	6883.1	7108.7	7149.4	7408.3	7792.9	8236.8	8695.4
12.5°	6454.0	6468.8	6513.2	6605.7	6801.7	6827.6	7112.4	7552.5	8070.3	8639.9
15°	6442.9	6472.5	6476.2	6524.3	6687.1	6698.1	6960.7	7397.2	7966.8	8628.8
17.5°	6553.9	6576.1	6542.8	6572.4	6709.2	6727.7	6934.9	7323.2	7933.5	8676.9
20°	6849.8	6868.3	6768.4	6727.7	6827.6	6842.4	7045.8	7371.3	7966.8	8776.8
22.5°	7478.6	7489.6	7245.5	7079.1	7086.5	7093.9	7271.4	7567.3	8096.2	8958.0
25°	8458.7	8451.3	8062.9	7741.2	7556.2	7515.5	7633.9	7885.4	8314.4	9198.4
27.5°	9605.2	9549.8	9161.4	8680.6	8277.4	8218.3	8192.4	8299.6	8625.1	9516.5
30°	10899.7	10848.0	10430.0	9801.3	9242.8	9146.6	8902.5	8847.0	9087.4	9949.2
32.5°	12320.0	12286.7	11787.4	11025.5	10278.4	10167.4	9756.9	9608.9	9797.6	10603.9
35°	13511.0	13481.4	13067.1	12283.0	11369.5	11232.6	10814.7	10648.2	10744.4	11443.4
37.5°	14587.2	14572.5	14217.4	13599.7	12656.6	12490.1	12020.4	11964.9	11946.5	12549.3
40°	15585.9	15548.9	15179.0	14853.5	14154.5	14002.9	13588.6	13540.5	13400.0	13910.4
42.5°	16691.7	16595.6	16059.3	15907.6	15719.0	15593.3	15345.5	15352.9	15042.2	15445.3
45°	17594.2	17538.7	16987.6	16898.9	17102.3	17050.5	17265.0	17320.5	16717.6	17054.2
47.5°	18563.2	18511.5	18045.4	17982.6	18533.6	18548.4	19306.6	19325.1	18352.4	18726.0
50°	19757.9	19683.9	19221.6	19299.3	19916.9	19972.4	21359.4	21233.6	19857.7	20423.6
52.5°	20545.7	20590.1	20490.2	20615.9	21459.2	21511.0	23378.8	23057.0	21348.3	22099.1
55°	21126.4	21215.1	21525.8	21814.3	23086.6	23138.4	25283.6	24791.7	22583.6	23652.5
57.5°	21873.5	21747.7	22328.4	22890.6	24632.6	24769.5	27136.6	26463.4	23678.4	24991.4
60°	22946.1	22857.3	23308.5	24140.7	26363.6	26581.8	29096.8	27968.7	24481.0	26052.9
62.5°	25120.8	24898.9	24969.2	25705.2	28545.7	28834.2	31308.6	29281.7	24880.4	26467.1
65°	28371.9	27990.9	27635.9	28146.3	31619.3	31904.1	33805.1	30313.7	24732.5	25664.5
67.5°	32466.2	32089.0	31652.5	32133.4	36146.3	36371.9	36886.1	30894.3	23567.4	22572.5
70°	35843.1	35702.5	36224.0	38202.8	43377.1	43384.5	40836.1	30413.5	20375.5	16003.8
72.5°	35395.5	35310.5	38058.5	44176.0	52490.4	52294.4	44575.4	26774.1	13725.5	7219.7
75°	29037.6	29588.7	33845.8	44068.7	55763.7	55737.8	42286.0	17020.9	5677.3	2992.2
77.5°	15571.1	16443.9	21973.3	32536.5	43532.4	44187.1	29729.3	5954.7	2437.4	1915.9
80°	5078.2	5840.1	8758.3	16566.0	28286.8	28164.8	12741.6	2337.5	1668.1	1357.4
82.5°	2156.3	2245.0	3913.1	7822.5	14517.0	14291.4	4057.4	1342.6	1172.5	928.3
85°	843.3	943.1	1727.2	3617.2	6287.6	6150.8	1464.6	665.7	750.8	606.6
87.5°	277.4	336.6	617.7	1239.0	1956.6	1886.3	358.8	229.3	325.5	277.4
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°
9117.0	0°	9117.0	9117.0	9117.0	9117.0	9117.0	9117.0	9117.0	9117.0	9117.0	9117.0
9142.9	2.5°	9194.7	9253.9	9324.1	9427.7	9516.5	9590.4	9668.1	9716.2	9734.7	9790.2
9157.7	5°	9261.3	9390.7	9564.6	9734.7	9901.1	10001.0	10089.8	10134.1	10174.8	10204.4
9198.4	7.5°	9372.2	9538.7	9812.4	10034.3	10174.8	10256.2	10315.4	10300.6	10315.4	10322.8
9242.8	10°	9468.4	9701.4	10026.9	10237.7	10345.0	10348.7	10333.9	10282.1	10256.2	10259.9
9309.4	12.5°	9583.1	9842.0	10193.3	10370.9	10400.4	10319.1	10256.2	10167.4	10134.1	10119.3
9409.2	15°	9738.4	10034.3	10374.5	10441.1	10367.2	10263.6	10156.3	10012.1	9938.1	9878.9
9579.4	17.5°	9927.0	10252.5	10515.1	10467.0	10308.0	10137.8	9964.0	9745.8	9594.1	9531.3
9812.4	20°	10189.6	10481.8	10622.4	10411.5	10171.1	9912.2	9616.3	9350.0	9209.5	9146.6
10108.3	22.5°	10507.7	10788.8	10725.9	10315.4	9975.1	9560.9	9191.0	8995.0	8924.7	8880.3
10489.2	25°	10888.7	11129.1	10799.9	10174.8	9653.3	9094.8	8810.0	8747.2	8713.9	8680.6
10955.2	27.5°	11384.3	11513.7	10855.4	9967.7	9150.3	8599.2	8495.7	8506.8	8495.7	8440.2
11602.5	30°	12038.9	12013.0	10907.1	9631.1	8573.3	8151.7	8159.1	8207.2	8214.6	8177.6
12504.9	32.5°	12900.7	12638.1	10933.0	9194.7	8022.2	7759.6	7767.0	7818.8	7855.8	7792.9
13684.8	35°	13943.7	13366.7	10892.4	8647.3	7596.9	7386.1	7330.6	7345.4	7356.5	7297.3
15116.1	37.5°	15160.5	14184.1	10711.1	8040.7	7245.5	7019.9	6901.6	6801.7	6742.5	6687.1
16736.1	40°	16495.7	15075.5	10378.2	7449.0	6853.5	6631.6	6454.0	6265.4	6065.7	5991.7
18452.3	42.5°	17893.8	15992.7	9975.1	6883.1	6402.3	6221.0	6032.4	5758.7	5459.1	5307.5
20235.0	45°	19343.6	16932.2	9579.4	6324.6	5939.9	5862.3	5644.1	5314.9	4989.4	4797.1
22021.4	47.5°	20763.9	17819.8	8998.7	5762.4	5507.2	5592.3	5422.1	5118.9	4756.4	4453.1
23793.0	50°	22121.3	18652.0	8048.1	5192.8	5155.8	5510.9	5348.2	4911.7	4497.5	4109.1
25531.4	52.5°	23467.6	19325.1	6831.3	4675.0	4967.2	5488.7	5252.0	4771.2	4264.5	3857.6
27166.2	55°	24610.4	19672.8	5658.8	4231.2	4693.5	5300.1	5137.3	4604.7	3935.3	3502.6
28286.8	57.5°	25261.4	19391.7	4682.4	3794.8	4316.3	4989.4	4941.3	4249.7	3543.3	3210.4
28505.0	60°	24980.3	18252.5	3883.5	3413.8	3957.5	4652.8	4601.0	3898.3	3243.7	2929.3
27336.3	62.5°	23430.6	16081.5	3251.1	3080.9	3632.0	4308.9	4260.8	3628.3	3014.4	2711.1
24233.2	65°	20309.0	13081.9	2759.1	2803.5	3302.8	3894.6	3964.9	3402.7	2833.1	2537.2
18748.2	67.5°	15489.7	9475.8	2374.5	2563.1	2981.1	3487.8	3691.2	3240.0	2681.5	2400.4
10848.0	70°	8828.5	5381.5	2049.0	2330.1	2696.3	3110.5	3480.4	3110.5	2518.7	2285.7
4064.8	72.5°	3347.2	2470.7	1771.6	2097.1	2422.6	2792.4	3247.4	2907.1	2330.1	2156.3
2100.8	75°	1786.4	1505.3	1490.5	1823.4	2108.2	2481.8	2955.2	2707.4	2189.6	2278.3
1453.5	77.5°	1216.8	1065.2	1246.4	1560.8	1764.2	2137.8	2644.5	2404.1	1897.4	1890.0
1006.0	80°	843.3	754.5	1013.4	1257.5	1364.8	1797.5	2307.9	2063.8	1546.0	1442.5
621.4	82.5°	506.7	491.9	758.2	939.4	965.3	1387.0	1912.2	1730.9	1264.9	1102.2
369.9	85°	277.4	292.2	484.5	551.1	562.2	969.0	1497.9	1338.9	972.7	817.4
133.1	87.5°	77.7	99.9	177.5	218.2	270.0	503.0	891.4	795.2	488.2	340.3
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>
9117.0
9786.5
10211.8
10333.9
10267.3
10111.9
9897.4
9535.0
9139.2
8887.7
8680.6
8451.3
8196.1
7822.5
7338.0
6724.0
6025.0
5326.0
4782.3
4419.8
4075.8
3813.2
3465.6
3166.0
2884.9
2663.0
2489.2
2356.0
2256.1
2126.7
2352.3
1742.0
1379.6
1109.6
824.8
340.3
0.0

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