

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: P943412

Luminaire Tested: **GALN-SB7D-850-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943412
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-SB7D-850-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 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: 68618 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

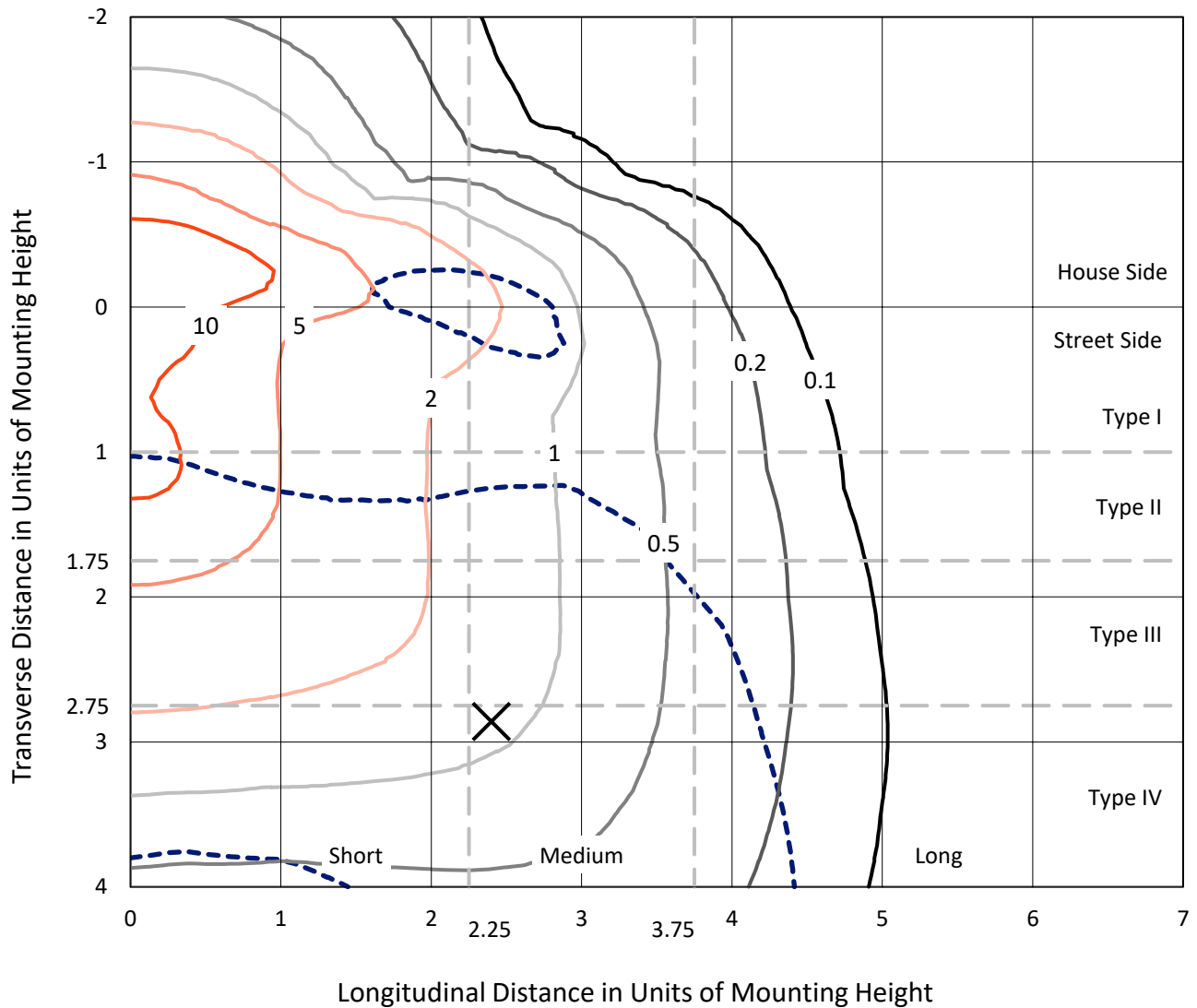
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

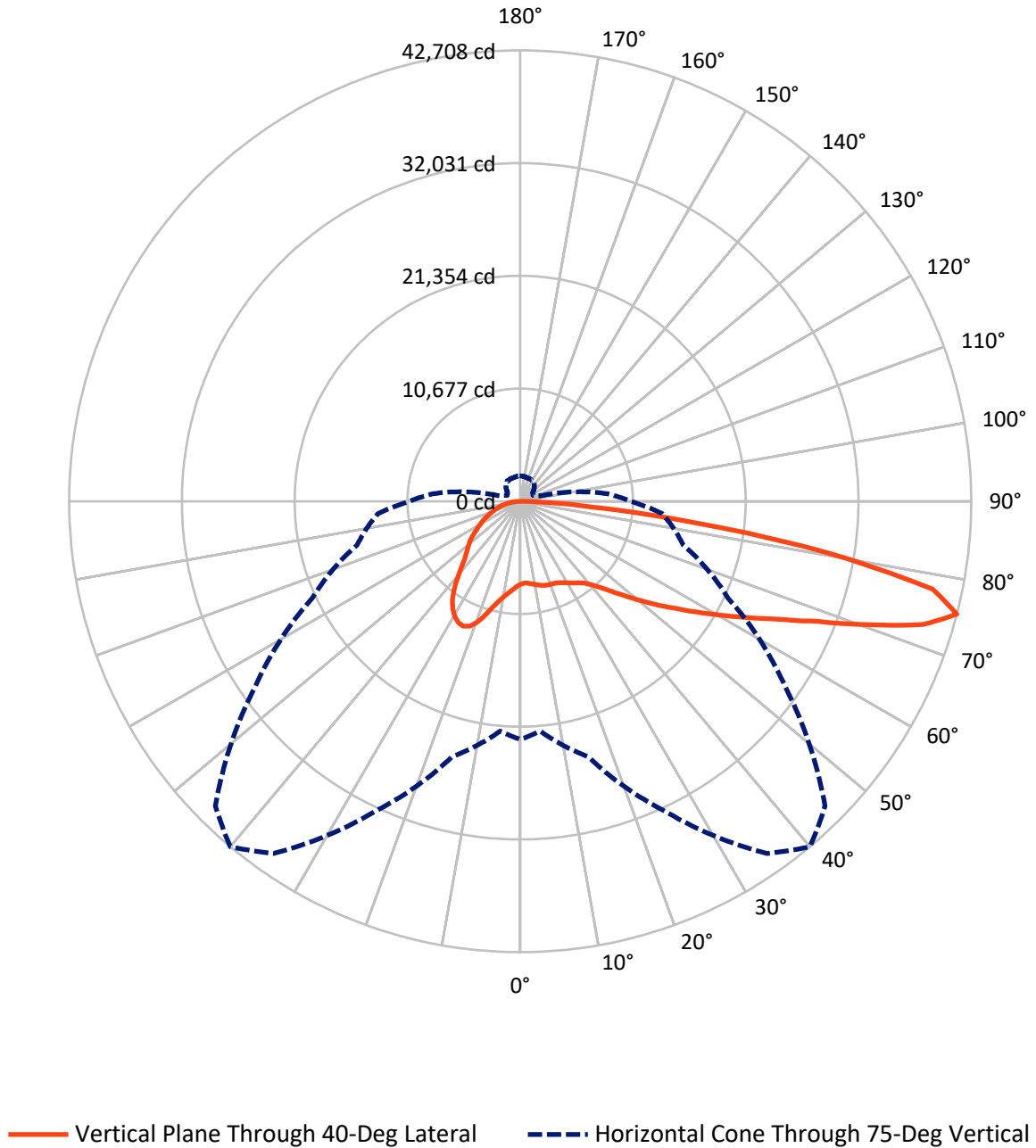
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21260.2	0.0	21260.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	47357.9	0.0	47357.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	68618.0	0.0	68618.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	783.2	1.1
10°-20°	2629.7	3.8
20°-30°	4801.6	7.0
30°-40°	6810.0	9.9
40°-50°	9195.5	13.4
50°-60°	12370.4	18.0
60°-70°	15700.9	22.9
70°-80°	14249.6	20.8
80°-90°	2077.1	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°	68618.0	100.0
0°-180°	68618.0	100.0



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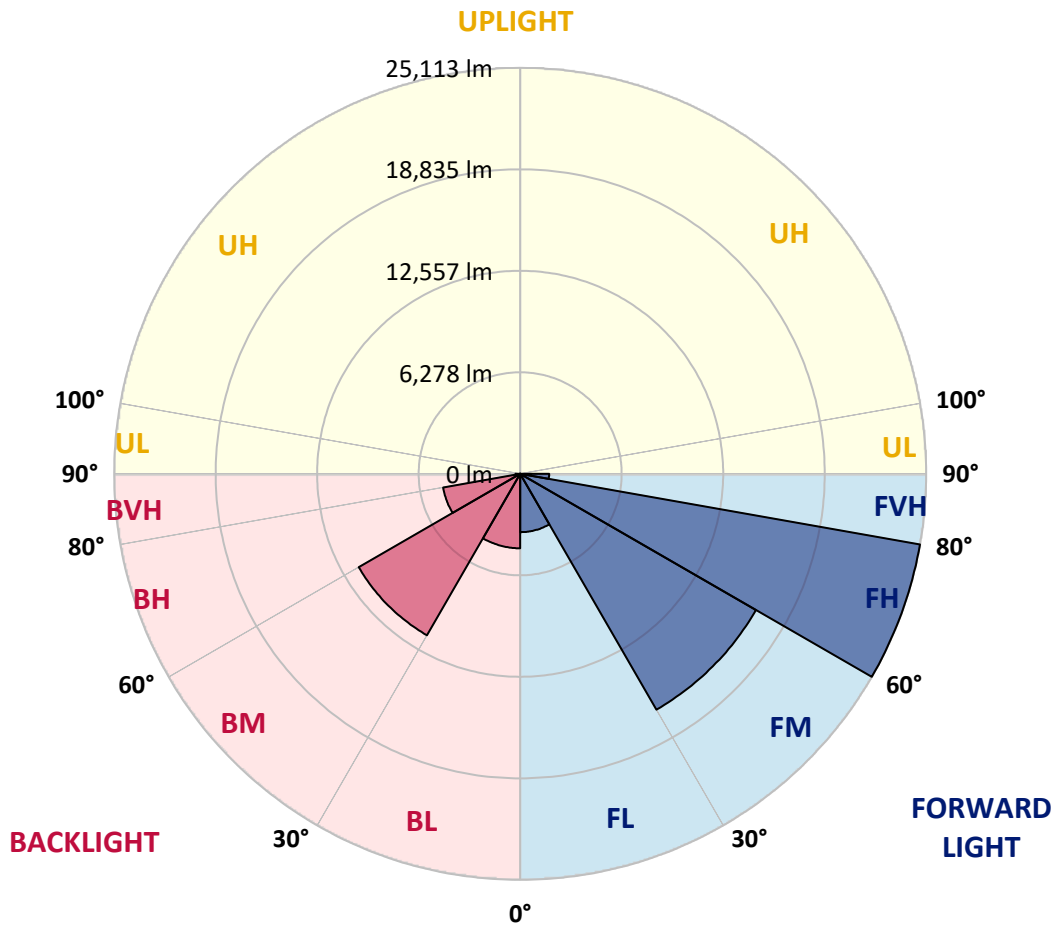
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3609.4	5.3			
FM (30°-60°)	16844.2	24.5			
FH (60°-80°)	25113.1	36.6			G5
FVH (80°-90°)	1791.2	2.6			G5
BL (0°-30°)	4605.1	6.7	B4/5000		
BM (30°-60°)	11531.7	16.8	B5		
BH (60°-80°)	4837.3	7.0	B4/5000		G4/5000
BVH (80°-90°)	286.0	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	7846.6	7846.6	7846.6	7846.6	7846.6	7846.6	7846.6	7846.6	7846.6	7846.6
2.5°	7726.5	7770.1	7759.2	7744.7	7744.7	7748.3	7744.7	7770.1	7795.6	7821.1
5°	7806.5	7850.2	7828.4	7810.2	7795.6	7792.0	7781.1	7777.4	7792.0	7824.7
7.5°	7963.0	8006.7	7973.9	7941.2	7912.1	7897.5	7883.0	7861.1	7850.2	7868.4
10°	8137.7	8181.4	8141.4	8083.1	8035.8	8017.6	8003.1	7981.2	7966.7	7977.6
12.5°	8312.4	8356.1	8301.5	8221.4	8159.5	8148.6	8130.4	8123.2	8119.5	8115.9
15°	8476.2	8512.6	8443.4	8348.8	8283.3	8265.1	8246.9	8257.8	8276.0	8297.8
17.5°	8603.6	8640.0	8538.0	8414.3	8352.4	8345.2	8334.2	8370.6	8421.6	8476.2
20°	8720.0	8756.4	8625.4	8458.0	8385.2	8385.2	8388.8	8465.3	8538.0	8618.1
22.5°	8883.8	8912.9	8752.8	8523.5	8417.9	8425.2	8454.3	8530.8	8621.8	8730.9
25°	9127.6	9149.5	8952.9	8647.2	8527.1	8549.0	8574.4	8610.8	8698.2	8825.6
27.5°	9520.7	9538.9	9280.5	8865.6	8683.6	8720.0	8756.4	8730.9	8771.0	8880.2
30°	10073.9	10084.8	9757.2	9207.7	8949.3	8967.5	8974.8	8869.2	8792.8	8880.2
32.5°	10729.0	10725.3	10335.9	9622.6	9251.4	9233.2	9171.3	8963.9	8785.5	8862.0
35°	11744.4	11704.3	11202.1	10204.9	9593.5	9480.7	9335.1	9069.4	8821.9	8843.8
37.5°	13425.8	13302.0	12606.9	11158.4	10103.0	9815.5	9600.8	9240.5	8902.0	8836.5
40°	15321.9	15165.4	14401.1	12465.0	10867.3	10405.1	10059.3	9484.3	9033.0	8869.2
42.5°	17571.1	17349.0	16526.5	14004.4	11835.3	11165.7	10645.3	9793.6	9225.9	8974.8
45°	20333.4	20038.6	18874.0	15740.4	13054.5	12162.9	11467.8	10263.1	9520.7	9178.6
47.5°	23124.8	23197.6	21541.6	17727.5	14517.6	13393.0	12497.7	10969.2	9950.1	9506.1
50°	26090.9	26141.9	24194.8	19929.4	16177.2	14783.3	13655.1	11758.9	10547.0	9972.0
52.5°	28405.6	28412.8	26604.1	22233.1	17905.9	16311.8	14903.4	12661.5	11238.5	10590.7
55°	29854.0	29835.9	28292.7	24413.1	19893.0	17916.8	16286.3	13687.8	12082.8	11318.6
57.5°	30905.8	30851.2	29457.4	26287.4	22011.1	19812.9	17851.3	14852.4	13080.0	12184.7
60°	31306.2	31273.4	30247.1	27907.0	24238.4	21909.2	19656.4	16155.3	14211.9	13207.4
62.5°	31459.0	31520.9	31022.3	29475.6	26622.3	24231.2	21639.9	17713.0	15485.7	14364.7
65°	31997.7	32110.5	32008.6	31528.2	29315.4	26949.8	24271.2	19565.4	16875.9	15605.8
67.5°	33064.0	33176.8	33220.5	33984.8	32605.4	30338.1	27553.9	21872.8	18502.7	16894.1
70°	33038.5	33005.8	33777.3	35939.1	36725.2	35029.3	31979.5	24711.6	20442.5	17964.1
72.5°	30072.4	29810.4	31633.7	35917.3	40153.6	39927.9	37384.0	28372.8	22116.7	18095.1
75°	22560.7	21861.9	25082.8	32368.9	40725.0	42708.4	40819.6	30643.8	21720.0	15987.9
77.5°	9648.1	8945.7	12741.6	23961.9	36448.7	39924.3	37667.9	26735.1	17338.1	10572.5
80°	2525.7	2522.1	3850.5	10863.6	24788.0	29482.8	25865.3	17265.3	9906.5	3777.7
82.5°	1044.5	1019.0	1415.7	4225.4	12111.9	16544.7	13502.2	7701.0	3577.5	1022.7
85°	389.4	385.8	687.8	1459.4	4272.7	6823.9	4938.7	1968.9	891.7	498.6
87.5°	109.2	105.5	149.2	505.9	1040.9	1579.5	844.3	323.9	251.1	196.5
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°
7846.6	0°	7846.6	7846.6	7846.6	7846.6	7846.6	7846.6	7846.6	7846.6	7846.6	7846.6
7861.1	2.5°	7872.0	7890.2	7923.0	7948.5	7981.2	8017.6	8068.6	8101.3	8134.1	8155.9
7879.3	5°	7904.8	7944.8	8028.5	8112.2	8210.5	8301.5	8407.0	8483.5	8545.3	8563.5
7944.8	7.5°	7977.6	8043.1	8185.0	8327.0	8483.5	8632.7	8785.5	8916.5	9022.1	9062.1
8061.3	10°	8105.0	8192.3	8392.5	8592.6	8800.1	9029.4	9225.9	9415.1	9564.4	9626.2
8199.6	12.5°	8265.1	8374.3	8636.3	8912.9	9200.4	9517.0	9771.8	10004.7	10190.3	10274.0
8392.5	15°	8472.5	8614.5	8949.3	9320.5	9742.7	10183.1	10507.0	10765.4	10972.8	11074.7
8592.6	17.5°	8698.2	8887.4	9309.6	9870.1	10474.2	11052.9	11431.4	11620.6	11835.3	11933.6
8778.2	20°	8916.5	9149.5	9753.6	10568.8	11373.1	11988.2	12293.9	12344.9	12359.4	12370.3
8952.9	22.5°	9142.2	9455.2	10310.4	11449.6	12312.1	12737.9	12781.6	12563.2	12257.5	12115.6
9124.0	25°	9389.7	9804.6	11038.3	12421.3	13120.1	13171.0	12836.2	12304.8	11726.2	11460.5
9262.3	27.5°	9629.9	10208.5	11911.8	13349.3	13702.4	13254.7	12534.1	11780.8	11082.0	10801.8
9360.6	30°	9870.1	10670.7	12876.2	14160.9	13968.0	13047.3	12057.4	11216.6	10514.2	10219.5
9447.9	32.5°	10113.9	11209.4	13986.2	14746.9	13920.7	12606.9	11464.1	10583.4	9964.7	9655.3
9524.3	35°	10390.5	11871.7	15038.0	15067.1	13604.1	11959.1	10681.7	9826.4	9287.8	9040.3
9615.3	37.5°	10750.8	12712.4	15966.1	15147.2	13050.9	11009.2	9709.9	8931.1	8487.1	8374.3
9750.0	40°	11198.5	13724.2	16675.8	15019.8	12232.0	9855.5	8647.2	8024.9	7773.8	7799.2
9931.9	42.5°	11780.8	14856.1	17174.4	14692.3	11092.9	8665.4	7715.5	7438.9	7559.0	7661.0
10204.9	45°	12537.8	16031.6	17483.7	14135.5	9804.6	7657.3	7166.0	7231.5	7322.5	7333.4
10645.3	47.5°	13505.8	17221.7	17687.5	13294.8	8490.7	6947.6	6816.6	6831.2	6813.0	6736.5
11304.0	50°	14714.1	18379.0	17869.5	12181.1	7373.4	6503.6	6328.9	6278.0	6026.9	5779.4
12181.1	52.5°	16089.8	19441.7	17945.9	10798.1	6503.6	6132.4	5848.5	5528.3	5058.8	4982.3
13283.8	55°	17618.4	20424.3	17749.4	9098.5	5772.1	5655.6	5226.2	4840.4	4789.5	4723.9
14736.0	57.5°	19445.3	21483.4	17349.0	7202.4	5022.4	5098.8	4680.3	4723.9	4633.0	4531.1
16603.0	60°	21443.4	22578.9	16646.6	5473.7	4247.2	4403.7	4538.3	4534.7	4509.2	4425.5
18571.9	62.5°	23241.2	23299.5	15263.7	4192.6	3566.6	3865.0	4232.6	4229.0	4207.2	4159.8
20628.2	65°	24311.2	23190.3	12956.3	3300.9	3006.1	3421.0	3817.7	3846.9	3850.5	3846.9
22174.9	67.5°	24122.0	21912.9	9790.0	2627.7	2543.9	2969.8	3406.5	3446.5	3475.6	3482.9
22371.4	70°	21982.0	19106.9	6383.5	2096.3	2132.7	2573.1	3017.1	3057.1	3082.6	3111.7
19412.6	72.5°	17134.3	14048.1	3654.0	1696.0	1772.4	2231.0	2631.3	2678.6	2693.2	2747.8
13509.5	75°	10441.5	8261.5	1972.6	1335.7	1455.8	1907.0	2249.2	2303.7	2329.2	2394.7
6634.6	77.5°	4964.2	3577.5	1124.6	1040.9	1171.9	1557.7	1899.8	1961.6	1892.5	1928.9
1830.6	80°	1677.8	1328.4	709.7	793.4	895.3	1215.6	1521.3	1583.1	1437.6	1430.3
607.8	82.5°	585.9	538.6	451.3	527.7	578.7	869.8	1150.1	1230.1	1070.0	1066.3
273.0	85°	229.3	218.4	251.1	287.5	345.7	535.0	757.0	797.0	658.7	531.4
80.1	87.5°	47.3	51.0	61.9	65.5	105.5	185.6	273.0	334.8	265.7	225.6
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>
7846.6
8141.4
8570.8
9065.8
9629.9
10274.0
11067.4
11930.0
12399.5
12155.6
11500.5
10834.5
10252.2
9695.4
9094.9
8454.3
7886.6
7755.6
7406.2
6794.8
5812.1
5007.8
4734.9
4512.9
4396.4
4141.6
3846.9
3490.2
3126.2
2769.6
2402.0
1899.8
1415.7
1015.4
524.1
207.4
0.0

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