

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: P941297

Luminaire Tested: **GALN-SB4D-735-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941297
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-SB4D-735-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40811 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

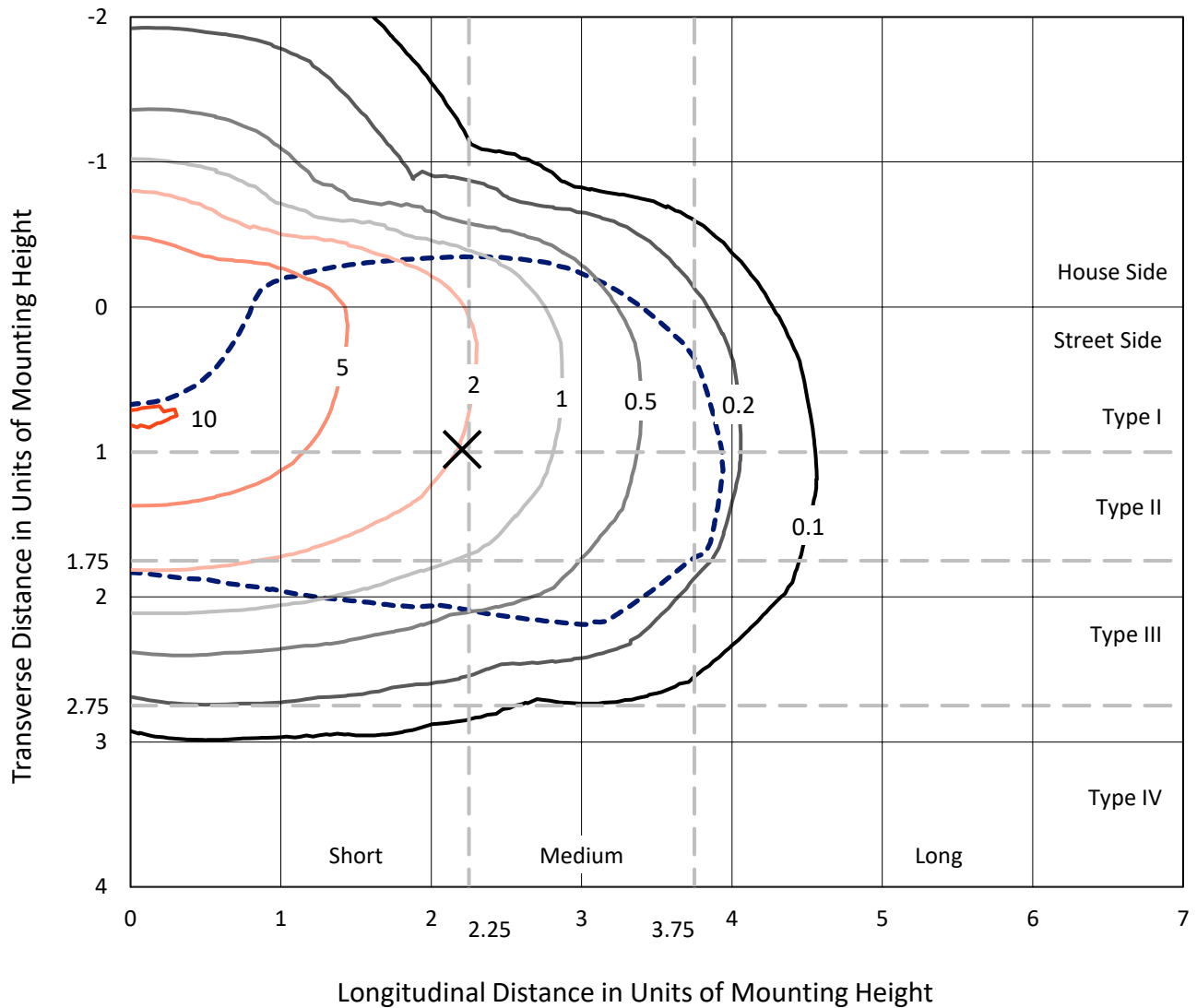
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

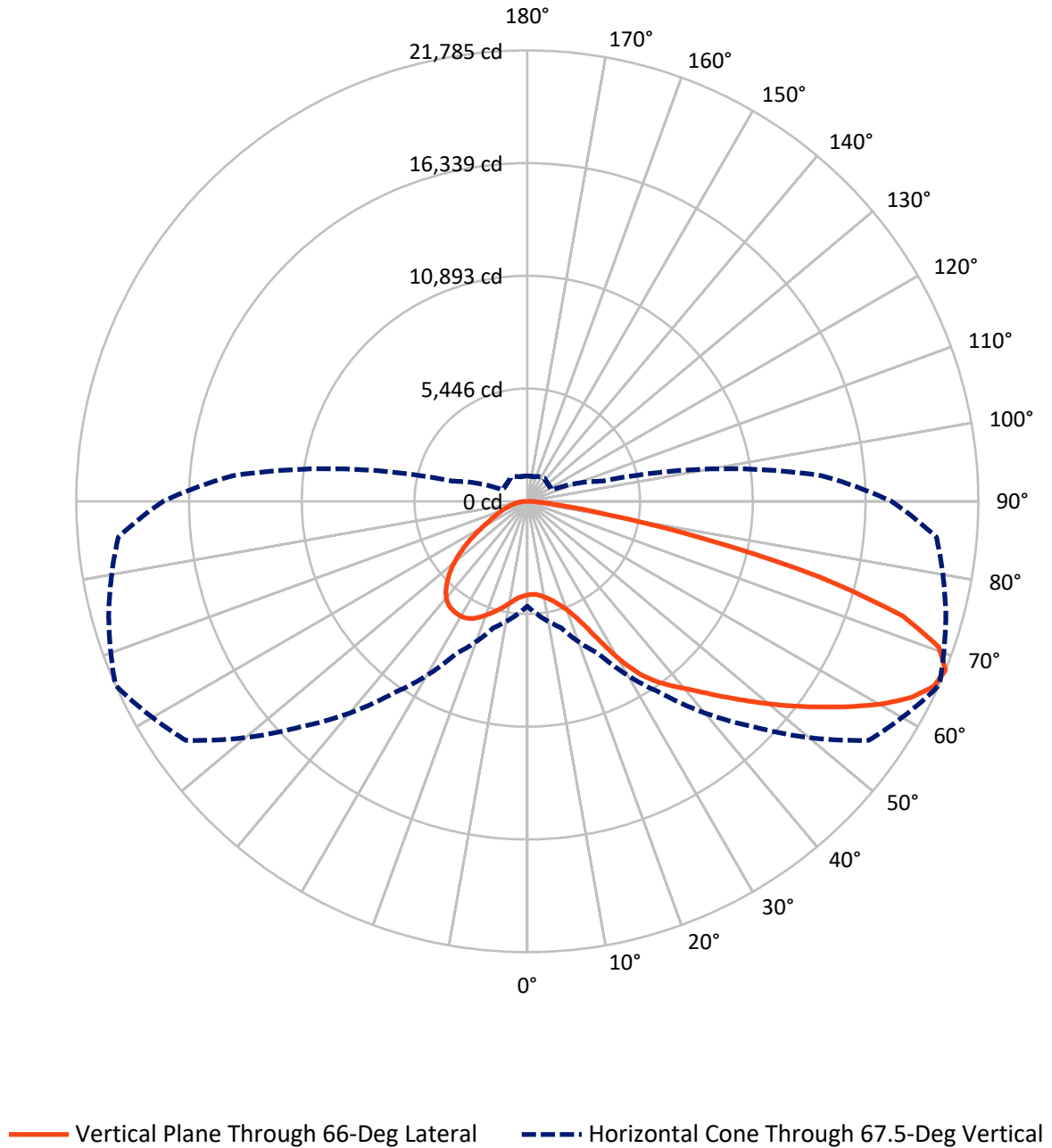
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10147.5	0.0	10147.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	30663.5	0.0	30663.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	40811.0	0.0	40811.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.8	1.1
10°-20°	1482.7	3.6
20°-30°	2857.9	7.0
30°-40°	5010.9	12.3
40°-50°	7449.5	18.3
50°-60°	9443.0	23.1
60°-70°	9239.7	22.6
70°-80°	4407.4	10.8
80°-90°	471.0	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°	40811.0	100.0
0°-180°	40811.0	100.0

Coefficient of Utilization



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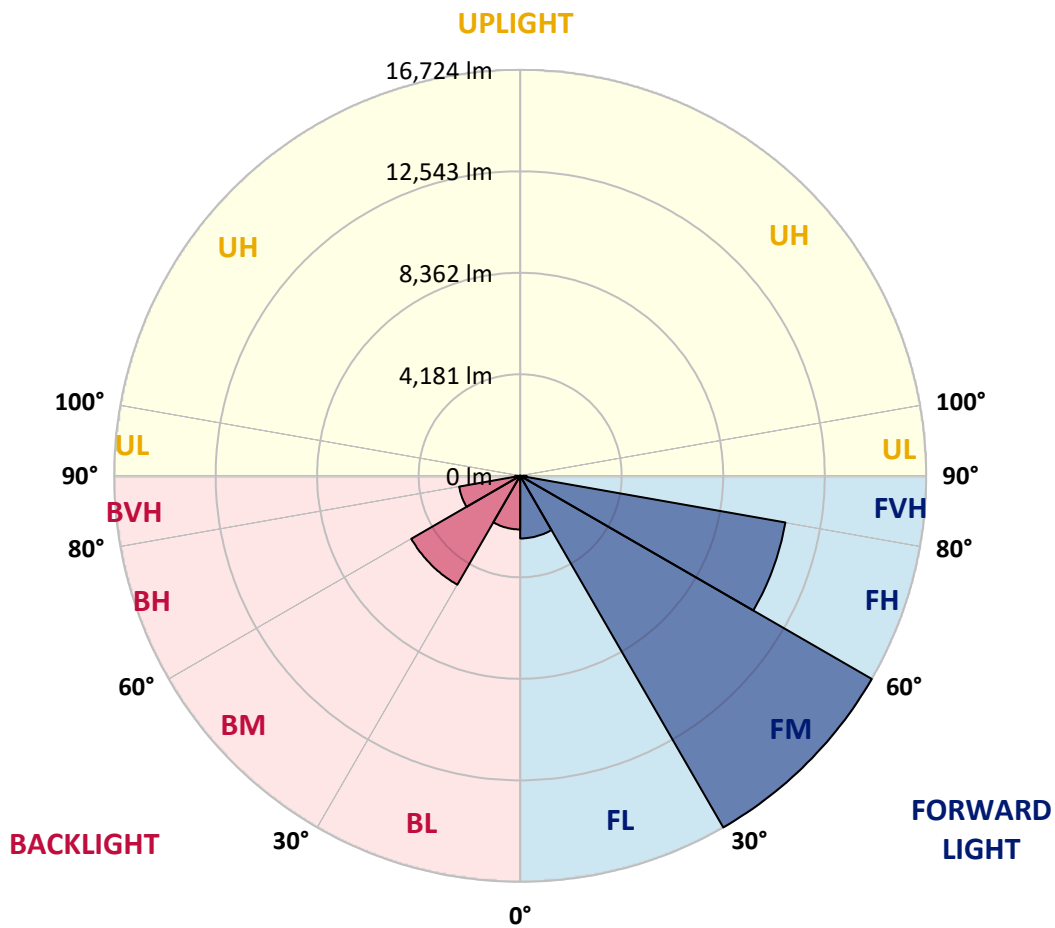
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2578.9	6.3			
FM (30°-60°)	16724.0	41.0			
FH (60°-80°)	11093.5	27.2			G4/12000
FVH (80°-90°)	267.1	0.7			G3/500
BL (0°-30°)	2210.5	5.4	B3/2500		
BM (30°-60°)	5179.4	12.7	B4/8500		
BH (60°-80°)	2553.6	6.3	B4/5000		G4/5000
BVH (80°-90°)	204.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5
2.5°	4479.3	4505.0	4498.6	4487.9	4485.7	4490.0	4496.5	4502.9	4500.7	4511.5
5°	4466.4	4492.2	4490.0	4490.0	4498.6	4515.8	4526.5	4537.2	4526.5	4539.3
7.5°	4475.0	4494.3	4502.9	4511.5	4532.9	4565.1	4590.8	4614.4	4601.5	4616.5
10°	4584.4	4599.4	4608.0	4608.0	4623.0	4659.4	4685.2	4728.0	4717.3	4740.9
12.5°	4783.8	4798.8	4798.8	4790.2	4800.9	4824.5	4833.1	4880.3	4861.0	4899.6
15°	5028.2	5058.2	5034.7	5019.7	5023.9	5047.5	5045.4	5081.8	5062.5	5094.7
17.5°	5298.4	5337.0	5298.4	5296.3	5287.7	5313.4	5315.6	5347.7	5313.4	5337.0
20°	5617.9	5671.5	5639.3	5650.1	5630.8	5641.5	5652.2	5699.4	5645.8	5662.9
22.5°	6068.2	6132.5	6098.2	6138.9	6126.1	6117.5	6115.4	6199.0	6115.4	6121.8
25°	6724.3	6801.5	6741.5	6797.2	6797.2	6825.1	6857.3	6964.5	6825.1	6784.4
27.5°	7693.5	7770.7	7652.8	7687.1	7676.4	7745.0	7710.7	7976.6	7826.5	7760.0
30°	8860.0	8997.2	8774.2	8765.6	8754.9	8864.3	8913.6	9089.4	8937.2	8870.7
32.5°	10120.8	10264.5	9998.6	9921.4	9880.6	9947.1	9906.4	10047.9	9942.8	9839.9
35°	11454.5	11596.0	11343.0	11192.9	11029.9	10890.6	10744.8	10781.2	10682.6	10526.0
37.5°	12715.3	12974.8	12706.7	12545.9	12245.7	11973.4	11566.0	11396.6	11304.4	11160.7
40°	13999.7	14147.7	13944.0	13806.7	13480.8	13054.1	12402.3	12044.2	11919.8	11780.4
42.5°	14945.3	15086.8	14977.5	14883.1	14628.0	14132.7	13290.0	12841.8	12661.7	12505.2
45°	15695.8	15800.9	15732.2	15766.6	15657.2	15176.9	14209.8	13697.4	13510.8	13320.0
47.5°	15998.1	16109.6	16219.0	16422.7	16609.2	16255.4	15198.3	14623.7	14426.4	14231.3
50°	15963.8	16077.5	16394.8	16828.0	17406.9	17289.0	16240.4	15610.0	15427.8	15204.8
52.5°	15689.4	15818.0	16225.4	16945.9	17867.9	18063.0	17301.8	16628.5	16457.0	16191.1
55°	14968.9	15046.1	15657.2	16677.9	17977.3	18603.4	18341.8	17713.5	17542.0	17171.0
57.5°	13633.0	13744.5	14634.4	15955.2	17702.8	18970.0	19255.2	18854.3	18689.1	18155.2
60°	11889.8	12067.8	13086.3	14741.6	17003.8	18967.9	20085.0	19975.7	19838.5	19124.4
62.5°	9917.1	10122.9	11102.8	13026.2	15781.6	18429.7	20604.0	20914.9	20844.1	20018.6
65°	7616.3	7757.8	8733.5	10806.9	13879.6	17274.0	20664.0	21556.0	21568.9	20698.3
67.5°	5071.1	5478.5	6325.5	8109.5	11332.3	15384.9	20136.5	21661.1	21785.4	20932.0
70°	2474.4	3010.5	3840.3	5270.5	8109.5	12488.0	18757.8	20799.1	21075.7	20250.2
72.5°	1027.1	1200.8	1653.2	2601.0	4655.1	8426.8	15987.4	18461.9	18974.3	17943.0
75°	692.6	750.5	945.6	1333.7	2120.6	4155.5	11529.5	13766.0	14591.5	13551.6
77.5°	533.9	570.4	688.3	932.7	1260.8	1571.7	6171.1	8296.0	8722.7	8075.2
80°	420.3	448.1	514.6	679.7	894.1	840.5	2103.5	3758.8	4005.4	3360.0
82.5°	364.5	375.2	368.8	461.0	594.0	491.0	690.4	1387.3	1531.0	1110.7
85°	263.7	293.8	306.6	285.2	315.2	248.7	283.0	491.0	540.3	482.5
87.5°	107.2	158.7	195.1	184.4	115.8	70.8	87.9	143.7	165.1	180.1
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°
4526.5	0°	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5
4528.6	2.5°	4530.8	4545.8	4556.5	4569.4	4577.9	4590.8	4616.5	4631.5	4633.7	4644.4
4562.9	5°	4571.5	4593.0	4616.5	4650.8	4689.4	4721.6	4770.9	4805.2	4818.1	4828.8
4646.6	7.5°	4659.4	4689.4	4732.3	4792.4	4848.1	4891.0	4951.0	4991.8	5032.5	5047.5
4779.5	10°	4790.2	4833.1	4895.3	4976.8	5036.8	5092.6	5154.7	5189.0	5229.8	5246.9
4938.2	12.5°	4953.2	4998.2	5079.7	5193.3	5249.1	5287.7	5309.1	5300.5	5309.1	5324.1
5129.0	15°	5139.7	5189.0	5281.2	5403.5	5442.1	5407.8	5360.6	5317.7	5311.3	5315.6
5360.6	17.5°	5360.6	5397.0	5504.3	5607.2	5579.3	5437.8	5334.9	5266.2	5231.9	5221.2
5656.5	20°	5669.4	5669.4	5757.3	5821.6	5635.0	5394.9	5234.1	5122.6	5051.8	5021.8
6059.6	22.5°	6044.6	6010.3	6066.0	6021.0	5624.3	5274.8	5051.8	4858.8	4751.6	4708.7
6623.5	25°	6520.6	6479.9	6464.9	6186.1	5547.1	5084.0	4721.6	4487.9	4393.5	4370.0
7436.2	27.5°	7238.9	7136.0	6940.9	6276.2	5405.6	4783.8	4335.6	4119.1	4065.5	4067.6
8480.4	30°	8195.3	7989.4	7511.3	6291.2	5174.0	4359.2	3941.1	3786.7	3761.0	3771.7
9357.4	32.5°	9080.8	8885.7	8094.5	6222.6	4818.1	3943.2	3587.3	3484.4	3445.8	3458.7
10026.4	35°	9775.6	9722.0	8634.8	6126.1	4380.7	3553.0	3270.0	3182.0	3107.0	3089.8
10656.8	37.5°	10431.7	10410.3	9040.1	5991.0	3947.5	3276.4	3014.8	2899.0	2789.6	2729.6
11353.7	40°	11152.2	11130.7	9306.0	5783.0	3563.7	3036.2	2785.4	2633.1	2498.0	2388.7
12142.8	42.5°	11962.7	11836.2	9432.5	5485.0	3237.8	2832.5	2598.8	2393.0	2215.0	2114.2
13034.8	45°	12848.3	12563.1	9430.3	5105.4	2963.3	2646.0	2399.4	2107.8	1942.7	1848.3
13950.4	47.5°	13787.4	13257.8	9314.6	4685.2	2697.4	2440.1	2090.6	1867.6	1758.3	1700.4
14945.3	50°	14756.6	13907.5	9117.3	4202.7	2425.1	2206.4	1897.6	1745.4	1661.8	1608.2
15931.7	52.5°	15667.9	14497.2	8879.3	3655.9	2148.5	1979.1	1811.9	1693.9	1606.0	1546.0
16888.0	55°	16514.9	15005.4	8542.6	3096.3	1923.4	1826.9	1771.1	1672.5	1571.7	1501.0
17859.3	57.5°	17267.5	15335.6	7961.5	2570.9	1762.6	1721.8	1728.3	1636.1	1520.3	1460.2
18815.7	60°	17893.6	15577.9	7101.7	2084.2	1631.8	1618.9	1661.8	1567.4	1432.3	1363.7
19624.0	62.5°	18268.9	15573.6	6046.7	1706.8	1520.3	1524.6	1573.9	1481.7	1344.4	1280.1
20046.4	65°	18236.7	15191.9	4888.9	1460.2	1413.1	1417.3	1481.7	1387.3	1271.5	1232.9
19834.2	67.5°	17591.3	14261.3	3750.3	1299.4	1295.1	1314.4	1389.5	1323.0	1226.5	1222.2
18569.1	70°	15843.7	12329.3	2701.7	1170.8	1172.9	1200.8	1299.4	1282.3	1202.9	1211.5
15612.2	72.5°	12704.6	9400.3	1814.0	1035.7	1037.8	1082.8	1213.6	1250.1	1179.3	1293.0
11077.1	75°	8461.1	5862.3	1166.5	892.0	894.1	952.0	1138.6	1187.9	1115.0	1288.7
5763.7	77.5°	4065.5	2635.3	844.8	750.5	750.5	804.1	984.2	1063.5	949.9	1001.4
1852.6	80°	1404.5	990.6	664.7	604.7	591.8	628.3	829.8	922.0	819.1	754.8
604.7	82.5°	553.2	514.6	533.9	469.6	426.7	450.3	645.4	761.2	602.5	544.6
340.9	85°	317.3	334.5	377.4	310.9	246.6	276.6	473.9	546.8	454.6	401.0
111.5	87.5°	85.8	117.9	173.7	160.8	111.5	117.9	225.1	302.3	261.6	201.6
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>
4526.5
4642.3
4826.7
5049.7
5255.5
5328.4
5330.6
5236.2
5015.4
4702.3
4374.2
4074.0
3808.2
3475.8
3102.7
2731.8
2399.4
2120.6
1844.0
1687.5
1588.9
1520.3
1473.1
1421.6
1333.7
1260.8
1230.8
1228.6
1209.3
1310.1
1299.4
917.7
707.6
542.5
409.5
208.0
0.0

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