

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: P944699

Luminaire Tested: **GALN-SB9D-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944699
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-SB9D-735-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 91609 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U0 - G5

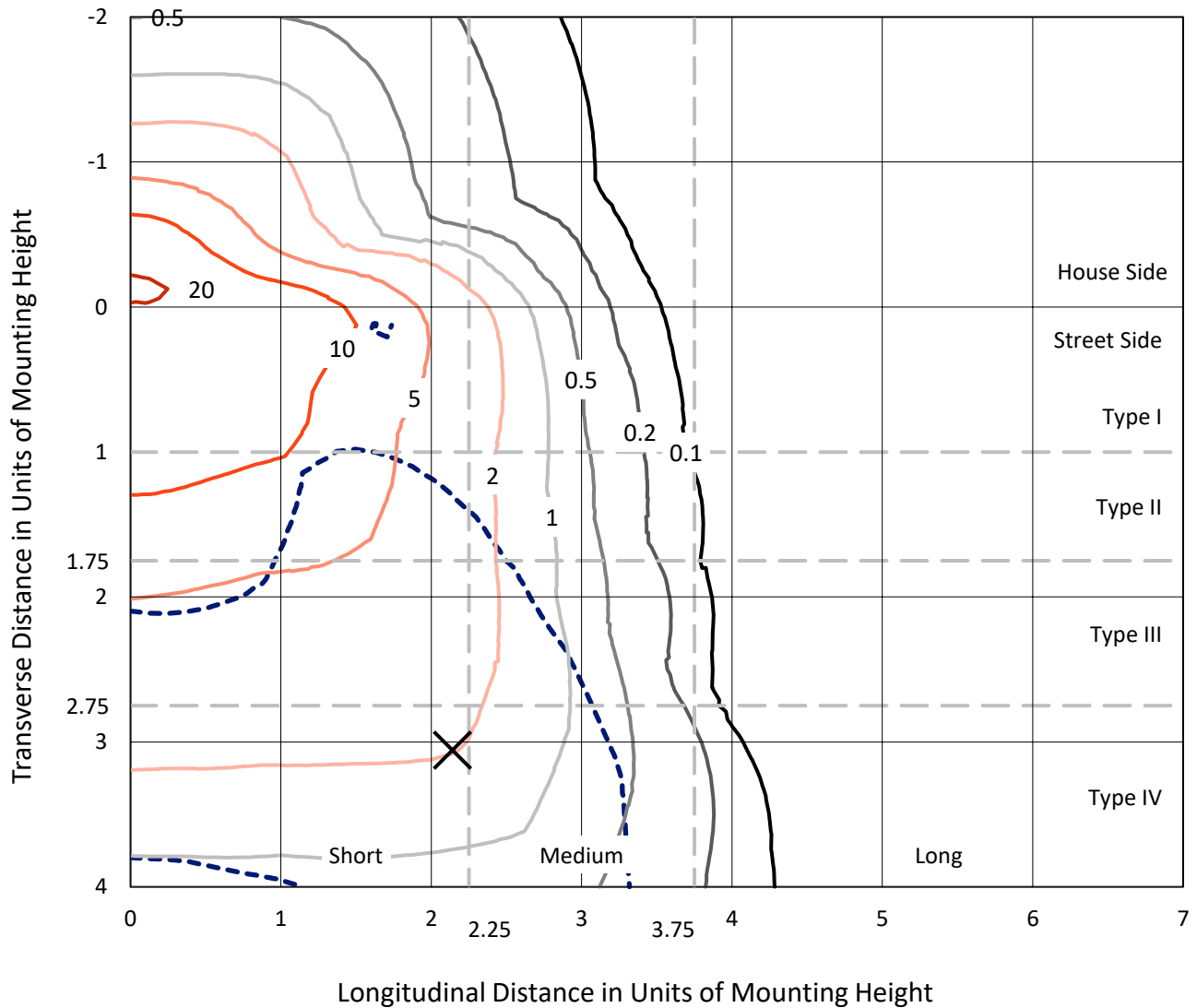
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

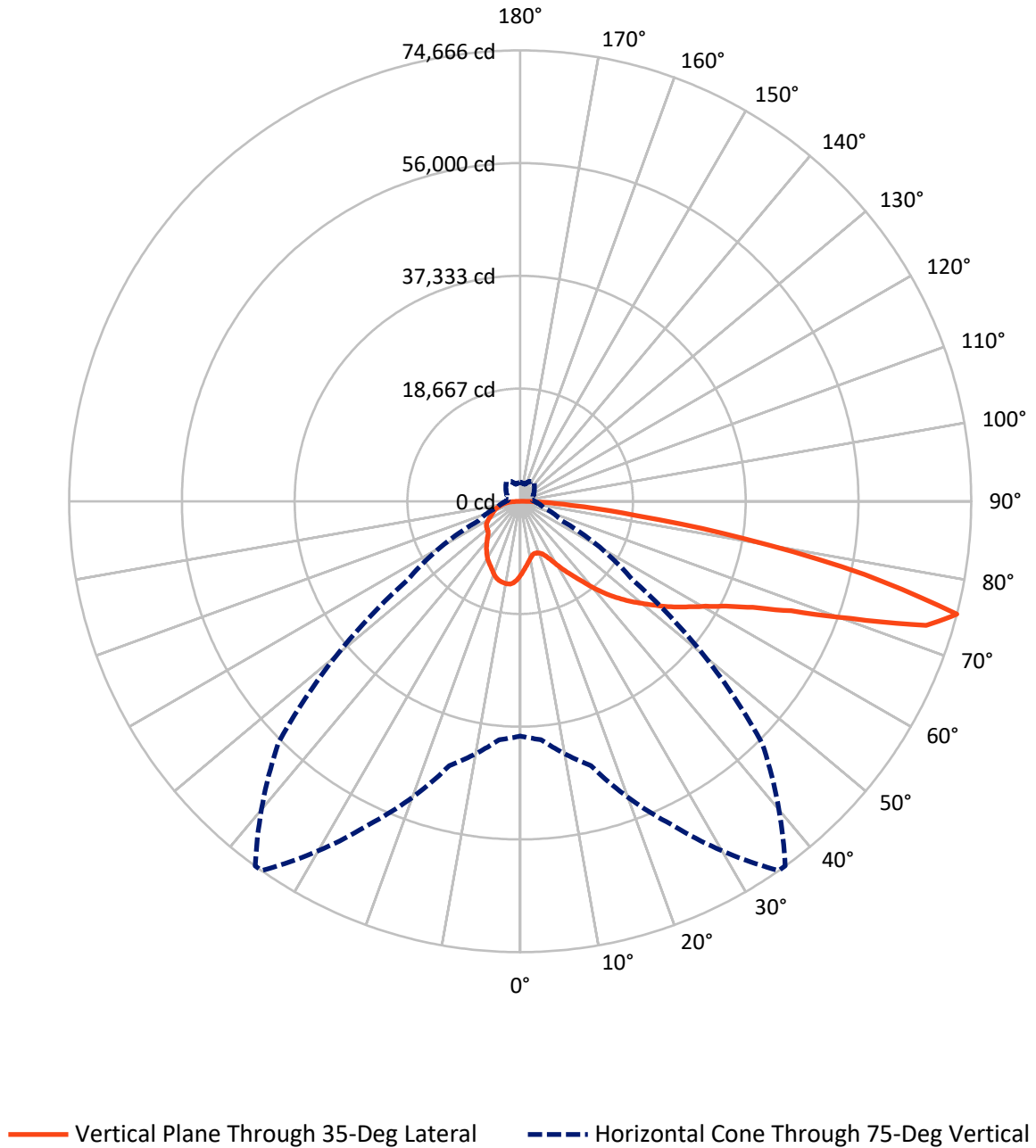
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21800.6	0.0	21800.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	69808.3	0.0	69808.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	91609.0	0.0	91609.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1155.8	1.3
10°-20°	3333.9	3.6
20°-30°	5598.4	6.1
30°-40°	8700.7	9.5
40°-50°	12914.2	14.1
50°-60°	17828.8	19.5
60°-70°	21630.4	23.6
70°-80°	17875.8	19.5
80°-90°	2571.1	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°	91609.0	100.0
0°-180°	91609.0	100.0

Coefficient of Utilization



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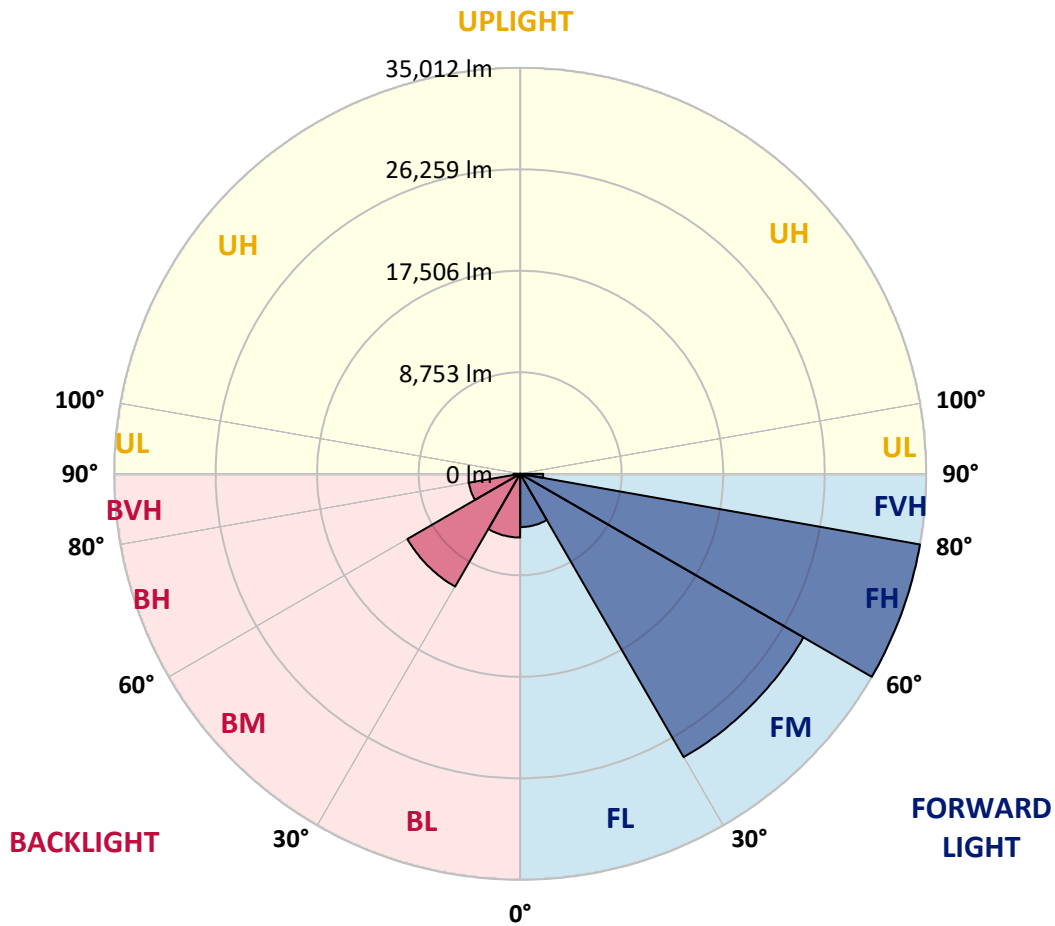
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4594.0	5.0			
FM (30°-60°)	28210.6	30.8			
FH (60°-80°)	35011.6	38.2			G5
FVH (80°-90°)	1992.1	2.2			G5
BL (0°-30°)	5494.1	6.0	B5		
BM (30°-60°)	11233.0	12.3	B5		
BH (60°-80°)	4494.6	4.9	B4/5000		G4/5000
BVH (80°-90°)	578.9	0.6			G4/750
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	12207.5	12207.5	12207.5	12207.5	12207.5	12207.5	12207.5	12207.5	12207.5	12207.5
2.5°	11256.7	11326.0	11355.7	11340.9	11415.1	11405.2	11509.2	11638.0	11816.3	11989.6
5°	10390.0	10464.3	10528.7	10588.1	10731.7	10776.3	10939.7	11187.3	11514.2	11846.0
7.5°	9582.8	9647.2	9746.2	9855.2	10097.8	10142.4	10414.8	10801.1	11256.7	11742.0
10°	8924.1	8988.5	9092.5	9216.3	9518.4	9572.9	9919.5	10434.6	11028.9	11643.0
12.5°	8641.8	8661.6	8721.1	8844.9	9107.4	9142.0	9523.4	10112.7	10806.0	11568.7
15°	8627.0	8666.6	8671.5	8735.9	8953.8	8968.7	9320.3	9904.7	10667.3	11553.8
17.5°	8775.5	8805.3	8760.7	8800.3	8983.5	9008.3	9285.6	9805.6	10622.8	11618.2
20°	9171.7	9196.5	9062.8	9008.3	9142.0	9161.8	9434.2	9870.0	10667.3	11751.9
22.5°	10013.6	10028.5	9701.6	9478.8	9488.7	9498.6	9736.3	10132.5	10840.7	11994.6
25°	11326.0	11316.1	10796.1	10365.2	10117.6	10063.2	10221.6	10558.4	11132.9	12316.5
27.5°	12861.2	12786.9	12266.9	11623.1	11083.3	11004.1	10969.4	11113.1	11548.9	12742.4
30°	14594.5	14525.2	13965.6	13123.7	12375.9	12247.1	11920.3	11846.0	12167.9	13321.8
32.5°	16496.2	16451.7	15783.1	14762.9	13762.6	13614.0	13064.3	12866.2	13118.7	14198.4
35°	18090.9	18051.3	17496.6	16446.7	15223.5	15040.3	14480.6	14257.8	14386.5	15322.5
37.5°	19532.0	19512.2	19036.8	18209.8	16946.9	16724.1	16095.1	16020.8	15996.1	16803.3
40°	20869.2	20819.6	20324.4	19888.6	18952.6	18749.6	18194.9	18130.5	17942.3	18625.8
42.5°	22349.9	22221.2	21503.1	21300.0	21047.4	20879.1	20547.3	20557.2	20141.2	20681.0
45°	23558.3	23484.0	22746.1	22627.2	22899.6	22830.3	23117.5	23191.8	22384.6	22835.2
47.5°	24855.8	24786.5	24162.5	24078.3	24816.2	24836.0	25851.2	25876.0	24573.5	25073.7
50°	26455.4	26356.4	25737.3	25841.3	26668.4	26742.6	28599.8	28431.4	26589.1	27346.8
52.5°	27510.3	27569.7	27436.0	27604.3	28733.5	28802.8	31303.7	30872.9	28584.9	29590.2
55°	28287.8	28406.6	28822.6	29208.9	30912.5	30981.8	33854.2	33195.5	30239.0	31670.2
57.5°	29288.1	29119.8	29897.3	30650.0	32982.6	33165.8	36335.3	35434.0	31704.9	33463.0
60°	30724.3	30605.5	31209.6	32323.9	35300.3	35592.5	38960.1	37449.6	32779.5	34884.3
62.5°	33636.3	33339.2	33433.2	34418.8	38222.2	38608.4	41921.6	39207.7	33314.4	35438.9
65°	37989.4	37479.3	37003.9	37687.3	42337.6	42718.9	45264.4	40589.4	33116.3	34364.3
67.5°	43471.6	42966.5	42382.1	43025.9	48399.2	48701.3	49389.7	41366.9	31556.3	30224.1
70°	47993.1	47804.9	48503.2	51152.7	58081.0	58091.0	54678.8	40723.1	27282.4	21428.8
72.5°	47393.9	47280.0	50959.6	59150.8	70283.6	70021.1	59685.6	35850.0	18378.1	9667.0
75°	38880.8	39618.7	45318.9	59007.1	74666.4	74631.8	56620.1	22790.7	7601.8	4006.4
77.5°	20849.4	22018.1	29421.9	43565.7	58289.0	59165.6	39806.9	7973.3	3263.6	2565.3
80°	6799.6	7819.7	11727.1	22181.5	37875.5	37712.1	17060.8	3129.9	2233.5	1817.5
82.5°	2887.2	3006.1	5239.6	10474.2	19437.9	19135.8	5432.7	1797.7	1569.9	1243.0
85°	1129.1	1262.8	2312.7	4843.4	8419.0	8235.7	1961.1	891.4	1005.3	812.2
87.5°	371.4	450.7	827.0	1659.0	2619.8	2525.7	480.4	307.0	435.8	371.4
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°
12207.5	0°	12207.5	12207.5	12207.5	12207.5	12207.5	12207.5	12207.5	12207.5	12207.5	12207.5
12242.2	2.5°	12311.5	12390.8	12484.9	12623.5	12742.4	12841.4	12945.4	13009.8	13034.6	13108.8
12262.0	5°	12400.7	12574.0	12806.8	13034.6	13257.4	13391.1	13510.0	13569.4	13623.9	13663.5
12316.5	7.5°	12549.2	12772.1	13138.6	13435.7	13623.9	13732.8	13812.1	13792.3	13812.1	13822.0
12375.9	10°	12678.0	12990.0	13425.8	13708.1	13851.7	13856.6	13836.8	13767.5	13732.8	13737.8
12465.0	12.5°	12831.5	13178.2	13648.6	13886.4	13926.0	13817.0	13732.8	13614.0	13569.4	13549.6
12598.8	15°	13039.5	13435.7	13891.3	13980.5	13881.4	13742.7	13599.1	13406.0	13306.9	13227.7
12826.6	17.5°	13292.1	13727.9	14079.5	14015.1	13802.2	13574.4	13341.6	13049.4	12846.4	12762.2
13138.6	20°	13643.7	14034.9	14223.1	13940.8	13618.9	13272.3	12876.1	12519.5	12331.3	12247.1
13534.7	22.5°	14069.6	14446.0	14361.8	13812.1	13356.5	12801.8	12306.6	12044.1	11950.0	11890.6
14044.8	25°	14579.7	14901.6	14460.8	13623.9	12925.6	12177.8	11796.5	11712.3	11667.7	11623.1
14668.8	27.5°	15243.3	15416.6	14535.1	13346.6	12252.1	11514.2	11375.5	11390.4	11375.5	11301.2
15535.5	30°	16119.9	16085.2	14604.5	12895.9	11479.5	10915.0	10924.9	10989.2	10999.1	10949.6
16743.9	32.5°	17273.8	16922.1	14639.1	12311.5	10741.6	10390.0	10399.9	10469.2	10518.8	10434.6
18323.7	35°	18670.3	17897.8	14584.6	11578.6	10172.1	9889.8	9815.5	9835.3	9850.2	9771.0
20240.2	37.5°	20299.6	18992.2	14342.0	10766.4	9701.6	9399.5	9241.1	9107.4	9028.1	8953.8
22409.3	40°	22087.4	20185.7	13896.3	9974.0	9176.7	8879.5	8641.8	8389.3	8121.8	8022.8
24707.2	42.5°	23959.4	21413.9	13356.5	9216.3	8572.5	8329.8	8077.3	7710.8	7309.7	7106.6
27094.3	45°	25900.7	22671.8	12826.6	8468.5	7953.5	7849.5	7557.3	7116.5	6680.7	6423.2
29486.2	47.5°	27802.4	23860.4	12049.0	7715.7	7374.0	7487.9	7260.1	6854.0	6368.7	5962.6
31858.4	50°	29619.9	24974.7	10776.3	6953.1	6903.6	7379.0	7161.1	6576.7	6022.0	5502.1
34186.0	52.5°	31422.6	25876.0	9147.0	6259.8	6651.0	7349.3	7032.3	6388.5	5710.0	5165.3
36374.9	55°	32952.9	26341.5	7577.1	5665.5	6284.5	7096.7	6878.8	6165.7	5269.3	4689.9
37875.5	57.5°	33824.5	25965.1	6269.7	5081.1	5779.4	6680.7	6616.3	5690.2	4744.3	4298.6
38167.7	60°	33448.1	24439.8	5200.0	4571.0	5299.0	6230.0	6160.7	5219.8	4343.2	3922.3
36602.7	62.5°	31373.1	21532.8	4353.1	4125.3	4863.2	5769.5	5705.1	4858.2	4036.2	3630.1
32447.7	65°	27193.3	17516.4	3694.4	3753.9	4422.4	5214.8	5308.9	4556.2	3793.5	3397.3
25103.4	67.5°	20740.4	12687.9	3179.4	3432.0	3991.6	4670.1	4942.4	4338.3	3590.4	3214.1
14525.2	70°	11821.2	7205.7	2743.6	3120.0	3610.3	4164.9	4660.2	4164.9	3372.5	3060.5
5442.6	72.5°	4481.9	3308.2	2372.2	2808.0	3243.8	3739.0	4348.2	3892.5	3120.0	2887.2
2812.9	75°	2392.0	2015.6	1995.8	2441.5	2822.8	3323.0	3956.9	3625.1	2931.8	3050.6
1946.3	77.5°	1629.3	1426.3	1668.9	2089.9	2362.3	2862.5	3540.9	3219.0	2540.6	2530.6
1347.0	80°	1129.1	1010.3	1356.9	1683.8	1827.4	2406.8	3090.3	2763.4	2070.1	1931.4
832.0	82.5°	678.5	658.7	1015.2	1257.9	1292.6	1857.1	2560.4	2317.7	1693.7	1475.8
495.2	85°	371.4	391.2	648.8	737.9	752.8	1297.5	2005.7	1792.7	1302.5	1094.5
178.3	87.5°	104.0	133.7	237.7	292.2	361.5	673.5	1193.5	1064.8	653.7	455.6
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>
12207.5
13103.9
13673.4
13836.8
13747.7
13539.7
13252.5
12767.1
12237.2
11900.5
11623.1
11316.1
10974.4
10474.2
9825.4
9003.4
8067.4
7131.4
6403.4
5918.0
5457.5
5105.9
4640.3
4239.2
3862.8
3565.7
3332.9
3154.6
3020.9
2847.6
3149.7
2332.6
1847.2
1485.7
1104.4
455.6
0.0

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