

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: P944029

Luminaire Tested: **GALN-SB8D-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944029
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-SB8D-740-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 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: 86043 lumens
Efficiency: N/A
Efficacy: 147.1 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

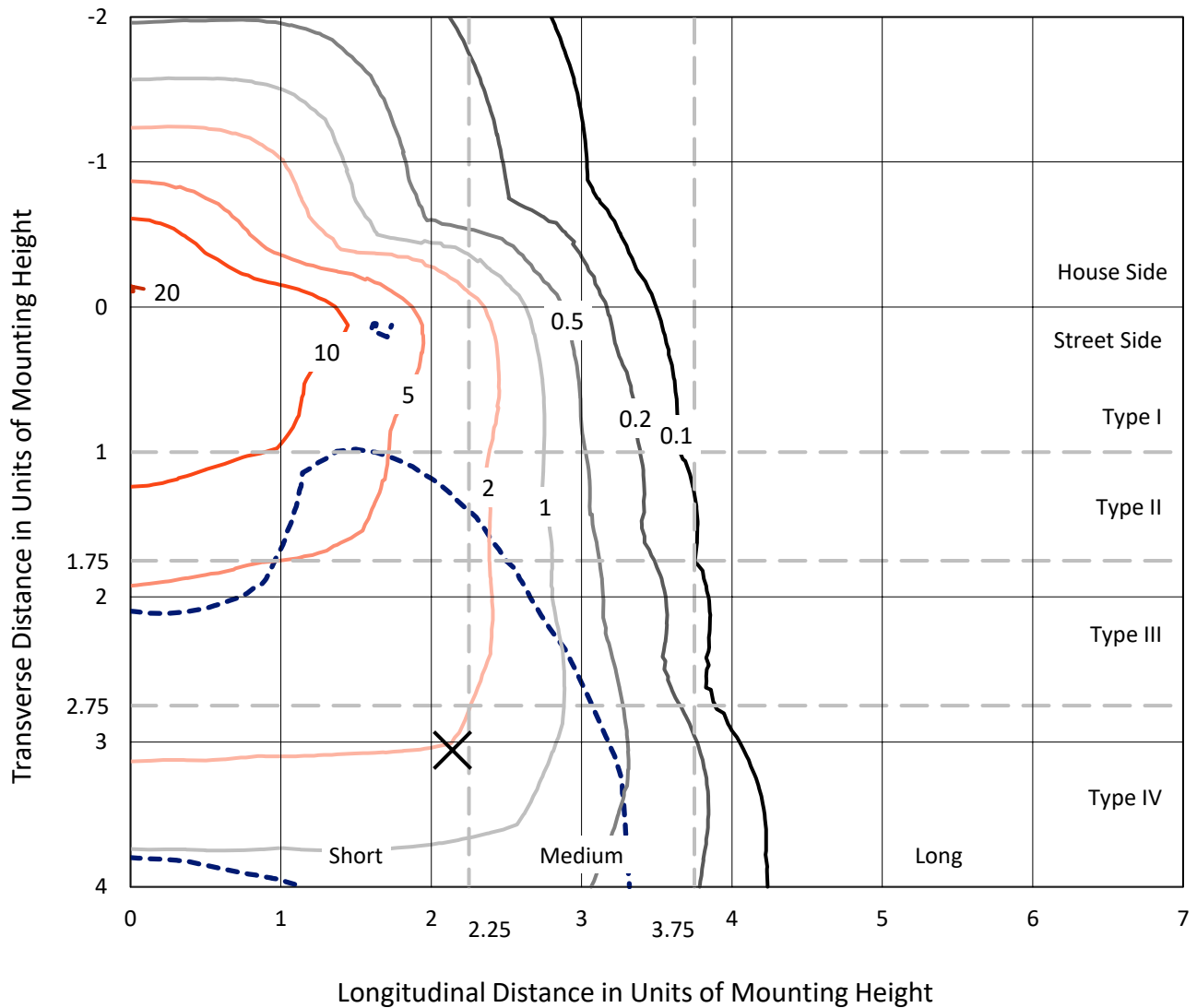
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

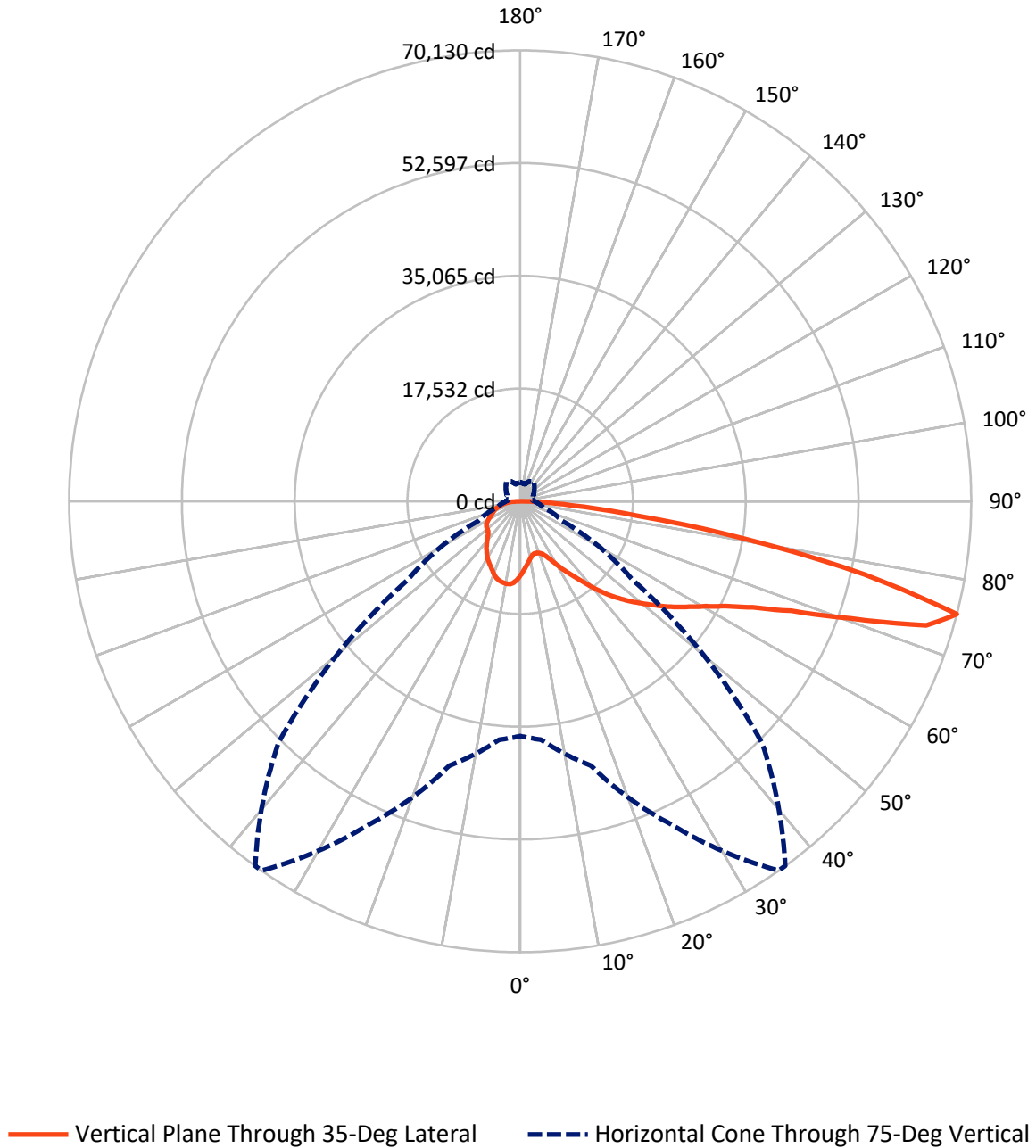
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 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	20476.1	0.0	20476.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	65566.9	0.0	65566.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	86043.0	0.0	86043.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1085.6	1.3
10°-20°	3131.3	3.6
20°-30°	5258.3	6.1
30°-40°	8172.1	9.5
40°-50°	12129.5	14.1
50°-60°	16745.5	19.5
60°-70°	20316.1	23.6
70°-80°	16789.7	19.5
80°-90°	2414.9	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°	86043.0	100.0
0°-180°	86043.0	100.0



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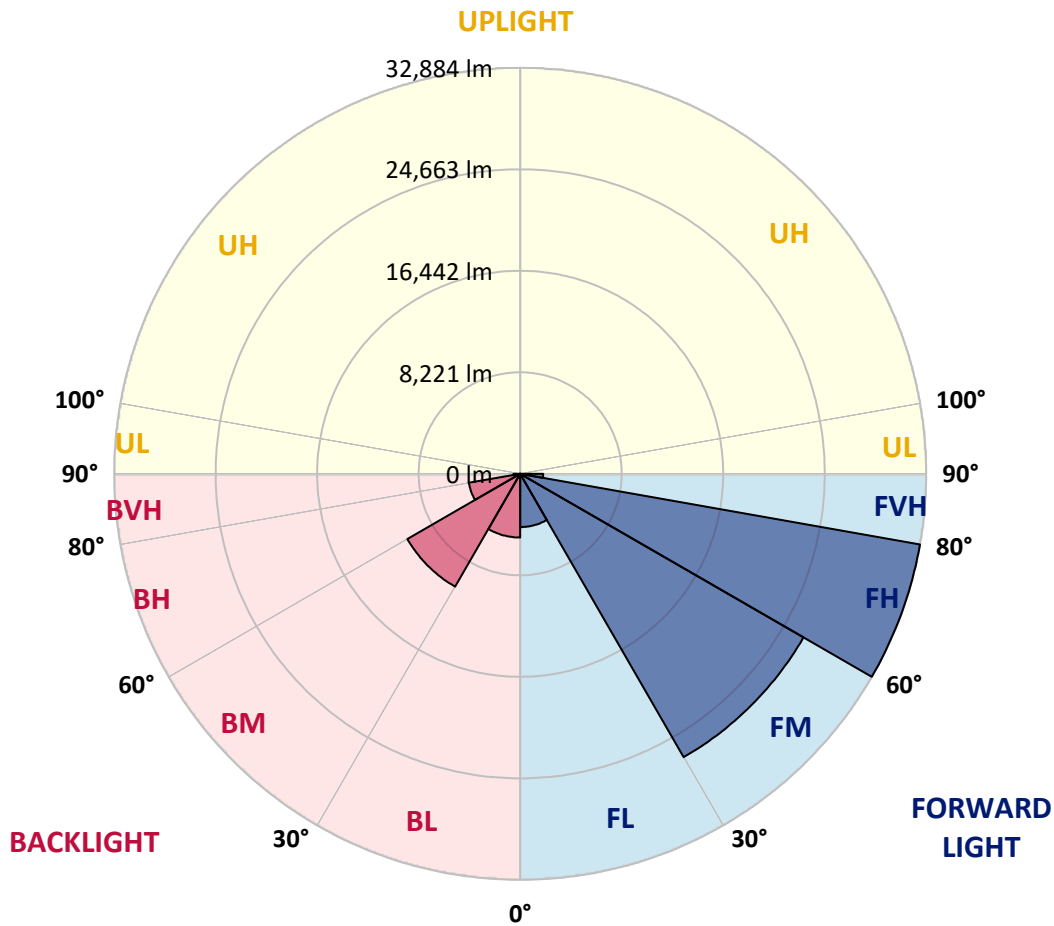
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4314.9	5.0			
FM (30°-60°)	26496.6	30.8			
FH (60°-80°)	32884.3	38.2			G5
FVH (80°-90°)	1871.1	2.2			G5
BL (0°-30°)	5160.2	6.0	B5		
BM (30°-60°)	10550.5	12.3	B5		
BH (60°-80°)	4221.5	4.9	B4/5000		G4/5000
BVH (80°-90°)	543.8	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°	11465.8	11465.8	11465.8	11465.8	11465.8	11465.8	11465.8	11465.8	11465.8	11465.8
2.5°	10572.7	10637.9	10665.8	10651.8	10721.6	10712.3	10810.0	10930.9	11098.3	11261.1
5°	9758.7	9828.5	9889.0	9944.8	10079.7	10121.5	10275.0	10507.6	10814.6	11126.3
7.5°	9000.5	9061.0	9154.0	9256.4	9484.3	9526.2	9782.0	10144.8	10572.7	11028.6
10°	8381.9	8442.4	8540.1	8656.3	8940.1	8991.2	9316.8	9800.6	10358.8	10935.5
12.5°	8116.8	8135.4	8191.2	8307.5	8554.0	8586.6	8944.7	9498.3	10149.5	10865.8
15°	8102.8	8140.0	8144.7	8205.1	8409.8	8423.8	8754.0	9302.9	10019.2	10851.8
17.5°	8242.4	8270.3	8228.4	8265.6	8437.7	8461.0	8721.5	9209.9	9977.3	10912.3
20°	8614.5	8637.7	8512.1	8461.0	8586.6	8605.2	8861.0	9270.3	10019.2	11037.9
22.5°	9405.2	9419.2	9112.2	8902.9	8912.2	8921.5	9144.7	9516.9	10182.0	11265.8
25°	10637.9	10628.6	10140.1	9735.5	9502.9	9451.7	9600.6	9916.9	10456.4	11568.1
27.5°	12079.8	12010.0	11521.6	10916.9	10409.9	10335.5	10303.0	10437.8	10847.2	11968.2
30°	13707.8	13642.7	13117.1	12326.3	11624.0	11503.0	11196.0	11126.3	11428.6	12512.4
32.5°	15494.0	15452.1	14824.2	13866.0	12926.4	12786.8	12270.5	12084.5	12321.7	13335.7
35°	16991.7	16954.5	16433.6	15447.4	14298.5	14126.4	13600.8	13391.5	13512.4	14391.6
37.5°	18345.3	18326.7	17880.2	17103.4	15917.2	15707.9	15117.2	15047.4	15024.2	15782.4
40°	19601.2	19554.7	19089.5	18680.2	17801.1	17610.4	17089.4	17028.9	16852.2	17494.1
42.5°	20992.0	20871.0	20196.6	20005.9	19768.6	19610.5	19298.8	19308.1	18917.4	19424.4
45°	22126.9	22057.2	21364.1	21252.5	21508.3	21443.2	21712.9	21782.7	21024.5	21447.8
47.5°	23345.6	23280.5	22694.4	22615.3	23308.4	23327.0	24280.5	24303.8	23080.5	23550.3
50°	24848.0	24755.0	24173.6	24271.2	25048.0	25117.8	26862.1	26703.9	24973.6	25685.3
52.5°	25838.8	25894.6	25769.0	25927.2	26987.7	27052.8	29401.8	28997.1	26848.1	27792.4
55°	26569.1	26680.7	27071.4	27434.2	29034.3	29099.4	31797.3	31178.6	28401.7	29746.0
57.5°	27508.6	27350.5	28080.8	28787.8	30978.6	31150.7	34127.7	33281.1	29778.6	31429.8
60°	28857.6	28745.9	29313.4	30360.0	33155.5	33429.9	36592.9	35174.2	30787.9	32764.8
62.5°	31592.6	31313.5	31401.9	32327.5	35899.9	36262.7	39374.5	36825.5	31290.3	33285.7
65°	35681.2	35202.1	34755.6	35397.5	39765.2	40123.4	42514.2	38123.2	31104.2	32276.4
67.5°	40830.4	40355.9	39807.1	40411.8	45458.6	45742.3	46388.9	38853.5	29639.0	28387.8
70°	45077.2	44900.4	45556.3	48044.8	54552.1	54561.4	51356.6	38248.8	25624.8	20126.8
72.5°	44514.3	44407.3	47863.4	55556.9	66013.3	65766.8	56059.2	33671.8	17261.5	9079.6
75°	36518.5	37211.6	42565.4	55422.0	70129.8	70097.3	53180.0	21405.9	7140.0	3763.0
77.5°	19582.6	20680.3	27634.2	40918.8	54747.5	55570.8	37388.3	7488.8	3065.3	2409.4
80°	6386.4	7344.6	11014.6	20833.8	35574.3	35420.8	16024.2	2939.7	2097.8	1707.1
82.5°	2711.8	2823.4	4921.2	9837.8	18256.9	17973.2	5102.6	1688.5	1474.5	1167.5
85°	1060.5	1186.1	2172.2	4549.1	7907.5	7735.4	1842.0	837.3	944.2	762.8
87.5°	348.9	423.3	776.8	1558.2	2460.6	2372.2	451.2	288.4	409.3	348.9
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°
11465.8	0°	11465.8	11465.8	11465.8	11465.8	11465.8	11465.8	11465.8	11465.8	11465.8	11465.8
11498.4	2.5°	11563.5	11637.9	11726.3	11856.5	11968.2	12061.2	12158.9	12219.3	12242.6	12312.4
11517.0	5°	11647.2	11810.0	12028.6	12242.6	12451.9	12577.5	12689.1	12745.0	12796.1	12833.3
11568.1	7.5°	11786.8	11996.1	12340.3	12619.4	12796.1	12898.5	12972.9	12954.3	12972.9	12982.2
11624.0	10°	11907.7	12200.7	12610.1	12875.2	13010.1	13014.7	12996.1	12931.0	12898.5	12903.1
11707.7	12.5°	12051.9	12377.5	12819.4	13042.7	13079.9	12977.5	12898.5	12786.8	12745.0	12726.4
11833.3	15°	12247.3	12619.4	13047.3	13131.0	13038.0	12907.8	12772.9	12591.5	12498.4	12424.0
12047.2	17.5°	12484.5	12893.8	13224.1	13163.6	12963.6	12749.6	12531.0	12256.6	12065.8	11986.8
12340.3	20°	12814.7	13182.2	13358.9	13093.8	12791.5	12465.9	12093.8	11758.9	11582.1	11503.0
12712.4	22.5°	13214.8	13568.3	13489.2	12972.9	12544.9	12024.0	11558.8	11312.3	11223.9	11168.1
13191.5	25°	13693.9	13996.2	13582.2	12796.1	12140.3	11437.9	11079.7	11000.7	10958.8	10916.9
13777.6	27.5°	14317.1	14479.9	13652.0	12535.6	11507.7	10814.6	10684.4	10698.3	10684.4	10614.6
14591.6	30°	15140.5	15107.9	13717.1	12112.4	10782.0	10251.8	10261.1	10321.6	10330.9	10284.3
15726.5	32.5°	16224.2	15894.0	13749.7	11563.5	10089.0	9758.7	9768.0	9833.2	9879.7	9800.6
17210.3	35°	17535.9	16810.3	13698.5	10875.1	9554.1	9288.9	9219.2	9237.8	9251.7	9177.3
19010.5	37.5°	19066.3	17838.3	13470.6	10112.2	9112.2	8828.4	8679.6	8554.0	8479.6	8409.8
21047.8	40°	20745.4	18959.3	13052.0	9368.0	8619.1	8340.0	8116.8	7879.5	7628.4	7535.3
23206.1	42.5°	22503.7	20112.8	12544.9	8656.3	8051.7	7823.7	7586.5	7242.3	6865.5	6674.8
25448.1	45°	24327.1	21294.3	12047.2	7954.0	7470.2	7372.5	7098.1	6684.1	6274.8	6032.9
27694.7	47.5°	26113.2	22410.7	11317.0	7247.0	6926.0	7033.0	6819.0	6437.6	5981.8	5600.3
29922.7	50°	27820.3	23457.2	10121.5	6530.6	6484.1	6930.7	6726.0	6177.1	5656.2	5167.8
32108.9	52.5°	29513.4	24303.8	8591.2	5879.4	6246.9	6902.7	6605.1	6000.4	5363.1	4851.5
34164.9	55°	30950.7	24741.0	7116.7	5321.3	5902.7	6665.5	6460.9	5791.0	4949.1	4404.9
35574.3	57.5°	31769.4	24387.5	5888.7	4772.4	5428.2	6274.8	6214.3	5344.5	4456.1	4037.5
35848.7	60°	31415.9	22954.9	4884.0	4293.3	4977.0	5851.5	5786.4	4902.6	4079.3	3683.9
34378.8	62.5°	29466.9	20224.5	4088.6	3874.7	4567.7	5418.9	5358.5	4563.1	3790.9	3409.5
30476.3	65°	25541.1	16452.2	3470.0	3525.8	4153.7	4898.0	4986.3	4279.3	3563.0	3190.9
23578.2	67.5°	19480.3	11917.0	2986.2	3223.5	3749.1	4386.3	4642.1	4074.7	3372.3	3018.8
13642.7	70°	11103.0	6767.9	2576.9	2930.4	3390.9	3911.9	4377.0	3911.9	3167.6	2874.6
5111.9	72.5°	4209.6	3107.2	2228.0	2637.4	3046.7	3511.8	4084.0	3656.0	2930.4	2711.8
2642.0	75°	2246.6	1893.1	1874.5	2293.2	2651.3	3121.1	3716.5	3404.9	2753.7	2865.3
1828.0	77.5°	1530.3	1339.6	1567.5	1962.9	2218.7	2688.5	3325.8	3023.4	2386.2	2376.9
1265.2	80°	1060.5	948.9	1274.5	1581.5	1716.4	2260.6	2902.5	2595.5	1944.3	1814.1
781.4	82.5°	637.2	618.6	953.5	1181.5	1214.0	1744.3	2404.8	2176.9	1590.8	1386.1
465.1	85°	348.9	367.5	609.3	693.1	707.0	1218.7	1883.8	1683.8	1223.3	1028.0
167.5	87.5°	97.7	125.6	223.3	274.4	339.6	632.6	1121.0	1000.1	614.0	427.9
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>
11465.8
12307.7
12842.6
12996.1
12912.4
12717.1
12447.3
11991.4
11493.7
11177.4
10916.9
10628.6
10307.6
9837.8
9228.5
8456.3
7577.2
6698.1
6014.3
5558.5
5125.9
4795.6
4358.4
3981.6
3628.1
3349.0
3130.4
2963.0
2837.4
2674.6
2958.3
2190.8
1735.0
1395.4
1037.3
427.9
0.0

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