

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: P954561

Luminaire Tested: **GALN-SB7D-740-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7D-740-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 74828 lumens
Efficiency: N/A
Efficacy: 145.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

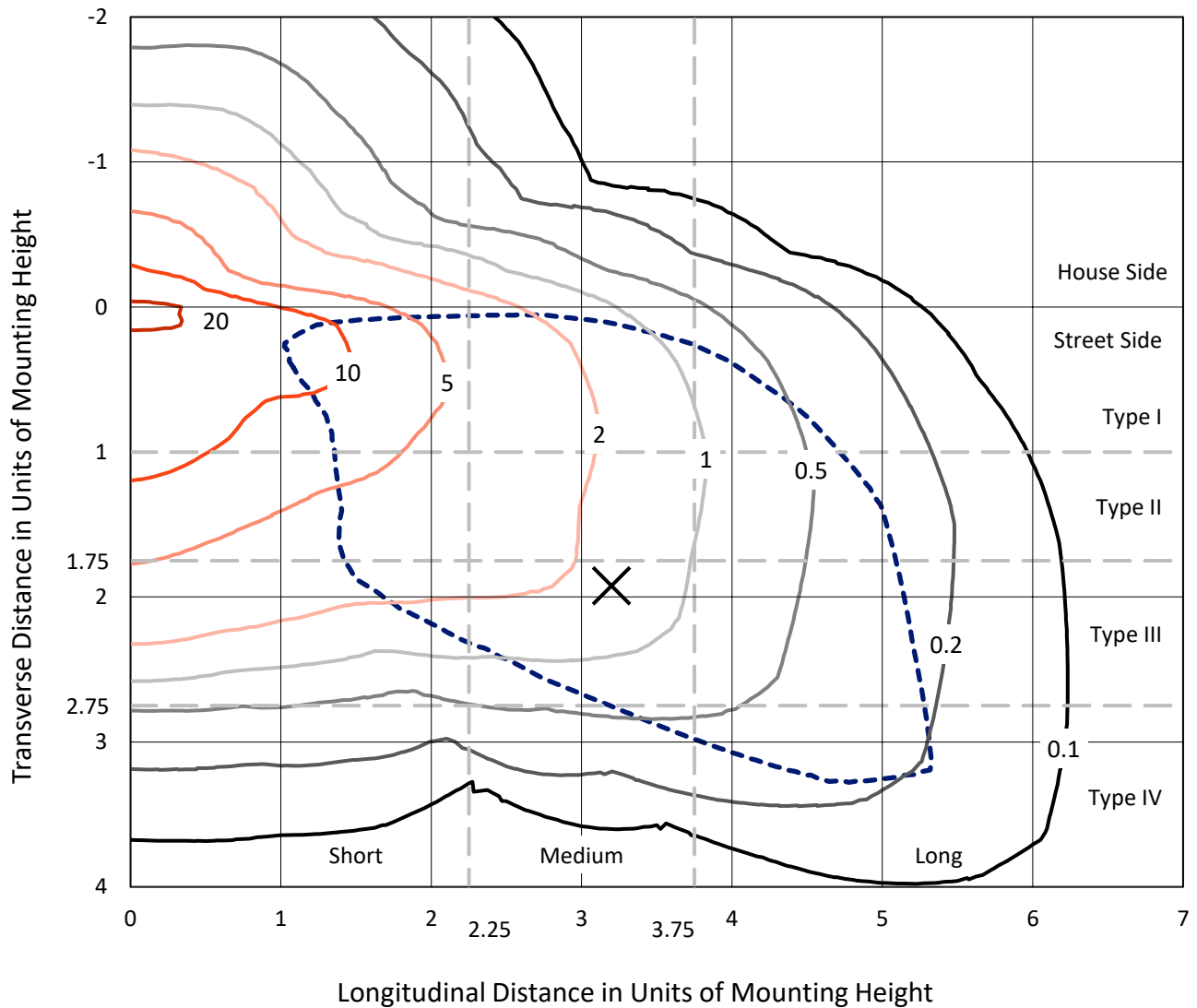
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

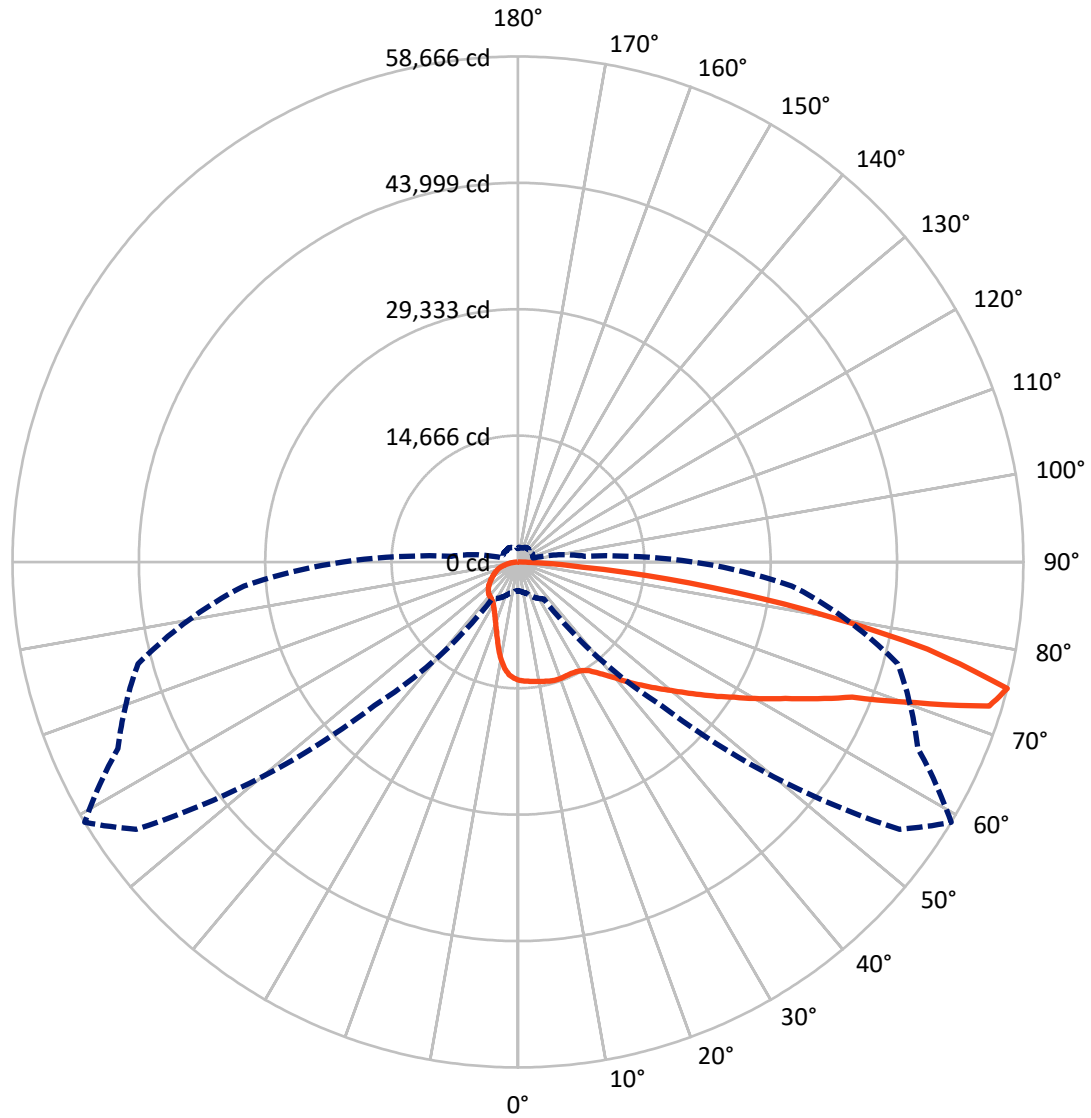
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14034.5	0.0	14034.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	60793.5	0.0	60793.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	74828.0	0.0	74828.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1231.5	1.6
10°-20°	3147.8	4.2
20°-30°	4781.3	6.4
30°-40°	7107.3	9.5
40°-50°	10569.8	14.1
50°-60°	14347.3	19.2
60°-70°	17515.7	23.4
70°-80°	13746.1	18.4
80°-90°	2381.2	3.2
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°	74828.0	100.0
0°-180°	74828.0	100.0

Coefficient of Utilization



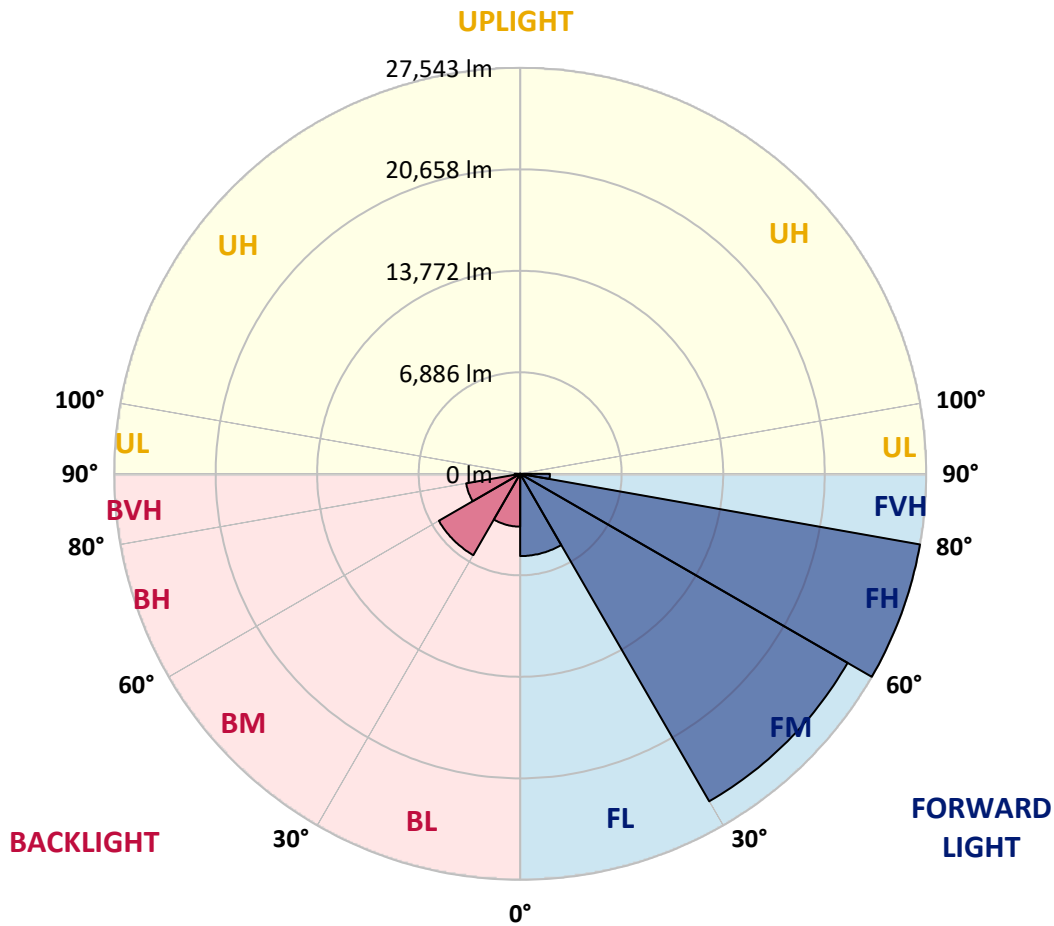
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5579.2	7.5			
FM (30°-60°)	25654.2	34.3			
FH (60°-80°)	27543.5	36.8			G5
FVH (80°-90°)	2016.7	2.7			G5
BL (0°-30°)	3581.5	4.8	B4/5000		
BM (30°-60°)	6370.3	8.5	B4/8500		
BH (60°-80°)	3718.3	5.0	B4/5000		G4/5000
BVH (80°-90°)	364.5	0.5			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	13734.5	13734.5	13734.5	13734.5	13734.5	13734.5	13734.5	13734.5	13734.5	13734.5
2.5°	13851.2	13802.9	13851.2	13831.1	13823.1	13807.0	13811.0	13839.2	13823.1	13843.2
5°	13758.7	13730.5	13778.8	13766.7	13819.0	13827.1	13879.4	13911.6	13931.8	13935.8
7.5°	13605.7	13577.5	13646.0	13702.3	13815.0	13847.2	13955.9	14008.2	14036.4	14084.7
10°	13046.2	13034.1	13203.2	13416.5	13682.2	13847.2	14012.3	14100.8	14145.1	14273.9
12.5°	12055.9	12072.0	12293.4	12704.0	13235.4	13766.7	14076.7	14205.5	14273.9	14434.9
15°	11110.0	11106.0	11347.5	11786.2	12530.9	13412.5	14108.9	14330.3	14447.0	14684.5
17.5°	10562.5	10546.4	10715.5	11049.6	11742.0	12869.1	14028.4	14398.7	14648.3	14946.1
20°	10461.9	10429.7	10518.3	10683.3	11174.4	12273.3	13819.0	14398.7	14809.3	15195.7
22.5°	10828.2	10775.9	10739.6	10719.5	10936.9	11782.2	13581.5	14350.4	15046.8	15554.0
25°	11564.8	11484.3	11299.2	11118.0	11053.6	11560.8	13372.2	14338.3	15401.0	16037.0
27.5°	12756.4	12655.7	12281.4	11846.6	11456.2	11673.5	13279.6	14410.8	15791.5	16548.2
30°	14233.7	14125.0	13654.0	12985.8	12285.4	12092.2	13396.4	14624.1	16290.6	17228.5
32.5°	15558.0	15437.2	15034.7	14354.4	13408.5	12816.7	13766.7	15030.7	17075.6	18174.5
35°	16733.4	16592.5	16230.2	15602.3	14785.1	13835.1	14434.9	15751.2	18190.6	19712.2
37.5°	17884.7	17719.6	17325.1	16660.9	16089.3	15191.7	15356.7	16677.0	19671.9	21579.9
40°	19172.8	18935.3	18456.3	17800.1	17244.6	16781.7	16568.4	17812.2	21177.4	23665.1
42.5°	20420.6	20195.2	19623.6	19064.1	18367.7	18234.9	17973.2	19140.6	22823.8	25955.5
45°	21765.1	21495.4	20803.0	20094.6	19655.8	19200.9	19333.8	20468.9	24437.9	28290.2
47.5°	23025.0	22723.1	21906.0	21117.0	20875.5	20014.1	20581.6	21930.1	26116.5	30657.1
50°	23705.3	23407.4	22727.2	22014.7	21825.5	21016.4	21934.2	23536.3	27875.6	33016.0
52.5°	24272.9	23950.9	23061.3	22666.8	22610.4	22107.3	23600.7	25371.8	29634.7	35101.1
55°	24876.7	24518.4	23383.3	23029.1	23286.7	23331.0	25577.1	27452.9	31494.4	37133.9
57.5°	25573.1	25118.2	23693.2	23335.0	23946.8	24764.0	27847.4	29610.5	33321.9	39017.8
60°	26229.2	25770.3	24289.0	23822.1	24659.3	26426.5	30451.8	32223.0	35390.9	40696.3
62.5°	26358.0	25979.6	24764.0	24760.0	25625.4	28366.7	33535.2	34859.6	37198.3	42354.8
65°	24128.0	23890.5	23169.9	24723.7	27010.1	31160.3	36968.9	38232.8	39496.8	43803.9
67.5°	18363.7	18395.9	18343.5	21342.4	25891.1	35173.6	41940.2	41843.6	42334.7	45430.2
70°	8396.9	8586.1	9817.8	14732.8	20742.7	35636.5	50160.0	48908.1	45897.1	47535.4
72.5°	4536.6	4681.5	5184.7	7137.0	12470.6	31683.6	56302.6	57192.2	50634.9	48952.3
75°	3329.0	3409.5	3759.7	4536.6	5237.0	23548.3	54100.8	58665.5	51226.7	45647.5
77.5°	2491.7	2527.9	2813.7	3594.6	2680.9	12414.2	43228.3	48586.0	43852.2	37504.2
80°	1807.4	1847.6	2061.0	2697.0	1879.8	4540.6	29683.0	34102.8	30033.2	23906.6
82.5°	1247.9	1264.0	1356.5	1835.6	1312.3	1763.1	16842.1	19998.0	16765.6	8388.8
85°	752.7	772.9	813.1	1070.7	744.7	837.3	7269.8	7519.4	5011.6	2004.6
87.5°	310.0	330.1	362.3	450.8	293.9	233.5	1199.6	1505.5	937.9	587.7
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°
13734.5	0°	13734.5	13734.5	13734.5	13734.5	13734.5	13734.5	13734.5	13734.5	13734.5	13734.5
13774.8	2.5°	13754.6	13726.5	13650.0	13545.3	13448.7	13328.0	13275.6	13231.3	13191.1	13114.6
13883.5	5°	13839.2	13762.7	13557.4	13291.7	12989.8	12659.7	12337.7	12116.3	11927.1	11786.2
14008.2	7.5°	13968.0	13823.1	13448.7	12905.3	12212.9	11504.5	10864.4	10409.6	10067.4	9942.6
14185.4	10°	14100.8	13927.7	13275.6	12317.6	11122.1	10031.2	9181.8	8714.9	8441.2	8352.6
14394.7	12.5°	14257.8	14004.2	13005.9	11500.4	9902.4	8706.8	7966.2	7692.5	7551.6	7503.3
14652.3	15°	14487.3	14068.6	12599.4	10478.0	8739.0	7740.8	7261.7	7072.5	7000.1	6996.1
14918.0	17.5°	14660.3	14080.7	11967.4	9383.1	7845.4	7157.1	6762.6	6690.1	6738.4	6810.9
15179.6	20°	14853.6	13972.0	11138.2	8384.8	7217.5	6645.9	6480.8	6529.1	6645.9	6750.5
15525.8	22.5°	14990.4	13774.8	10135.8	7607.9	6674.0	6352.0	6344.0	6444.6	6509.0	6561.3
15932.4	25°	15111.2	13440.7	9073.2	6955.8	6227.2	6174.9	6263.5	6231.3	6187.0	6231.3
16338.9	27.5°	15199.7	12913.3	8123.2	6384.2	5913.2	6054.1	6001.8	5929.3	5925.3	5949.5
16817.9	30°	15171.6	12208.9	7342.2	5840.8	5691.9	5828.7	5703.9	5691.9	5679.8	5691.9
17538.5	32.5°	15171.6	11407.9	6742.5	5466.4	5551.0	5498.6	5486.6	5458.4	5410.1	5406.1
18516.6	35°	15256.1	10606.8	6227.2	5265.2	5434.2	5309.4	5317.5	5249.1	5148.4	5100.1
19812.8	37.5°	15429.2	9962.8	5716.0	5168.6	5228.9	5224.9	5192.7	5076.0	4898.9	4745.9
21431.0	40°	15847.8	9773.6	5365.8	5124.3	5132.3	5180.6	5096.1	4870.7	4468.1	4218.6
23073.3	42.5°	16504.0	10091.6	5289.3	5015.6	5067.9	5116.2	4951.2	4427.9	4142.1	3993.2
24796.2	45°	17337.2	10647.1	5454.4	4858.6	4915.0	4999.5	4508.4	4258.8	4130.0	4134.0
26502.9	47.5°	18391.8	11230.7	5760.3	4721.7	4693.6	4741.9	4214.5	4061.6	3884.5	3928.7
28141.3	50°	19611.5	11822.5	6050.1	4536.6	4448.0	4291.0	4025.4	3880.4	3655.0	3550.4
29723.2	52.5°	20931.8	12394.1	6166.8	4311.2	4182.3	4001.2	3896.5	3719.4	3445.7	3272.6
31216.6	55°	22183.7	12913.3	6038.0	4041.5	3916.7	3775.8	3759.7	3651.0	3357.1	3115.6
32545.0	57.5°	23367.2	13348.1	5716.0	3767.7	3647.0	3562.4	3671.1	3618.8	3248.5	2938.5
33800.9	60°	24369.5	13646.0	5249.1	3490.0	3405.5	3361.2	3526.2	3510.1	3095.5	2749.3
34928.0	62.5°	25166.5	13762.7	4733.8	3224.3	3204.2	3123.7	3324.9	3324.9	2902.3	2564.2
35918.2	65°	25790.5	13650.0	4210.5	2962.7	3002.9	2882.2	3079.4	3055.2	2697.0	2399.1
37057.4	67.5°	26341.9	13279.6	3630.9	2705.0	2797.6	2644.7	2821.8	2765.4	2471.6	2234.1
38043.6	70°	26587.5	12418.2	2970.7	2447.4	2560.1	2411.2	2564.2	2459.5	2218.0	2057.0
36960.8	72.5°	24615.0	10321.0	2338.7	2177.7	2274.3	2153.6	2286.4	2165.6	1944.2	1871.8
31917.0	75°	20364.3	7744.8	1799.3	1883.9	1956.3	1863.7	1952.3	1863.7	1662.5	1714.8
23576.5	77.5°	14789.2	5228.9	1376.7	1573.9	1606.1	1557.8	1634.3	1533.7	1352.5	1340.4
11750.0	80°	7354.3	3063.3	1078.8	1243.8	1231.8	1199.6	1288.1	1239.8	1086.8	1151.3
3172.0	82.5°	2129.4	1312.3	784.9	873.5	849.3	857.4	921.8	946.0	1416.9	1404.8
986.2	85°	668.2	515.2	471.0	487.1	462.9	475.0	543.4	1078.8	998.3	583.7
305.9	87.5°	173.1	177.1	116.7	124.8	128.8	153.0	173.1	656.1	314.0	205.3
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>
13734.5
13078.4
11669.5
9725.3
8215.8
7515.3
7012.2
6839.1
6786.7
6589.5
6259.4
5989.7
5736.1
5458.4
5148.4
4798.2
4250.8
3993.2
4154.2
4041.5
3578.5
3268.6
3115.6
2922.4
2737.2
2552.1
2383.0
2218.0
2024.8
1811.4
1565.9
1280.1
1139.2
1437.1
632.0
217.4
0.0

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