

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: P954559

Luminaire Tested: **GALN-SB7D-740-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
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-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 76100 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

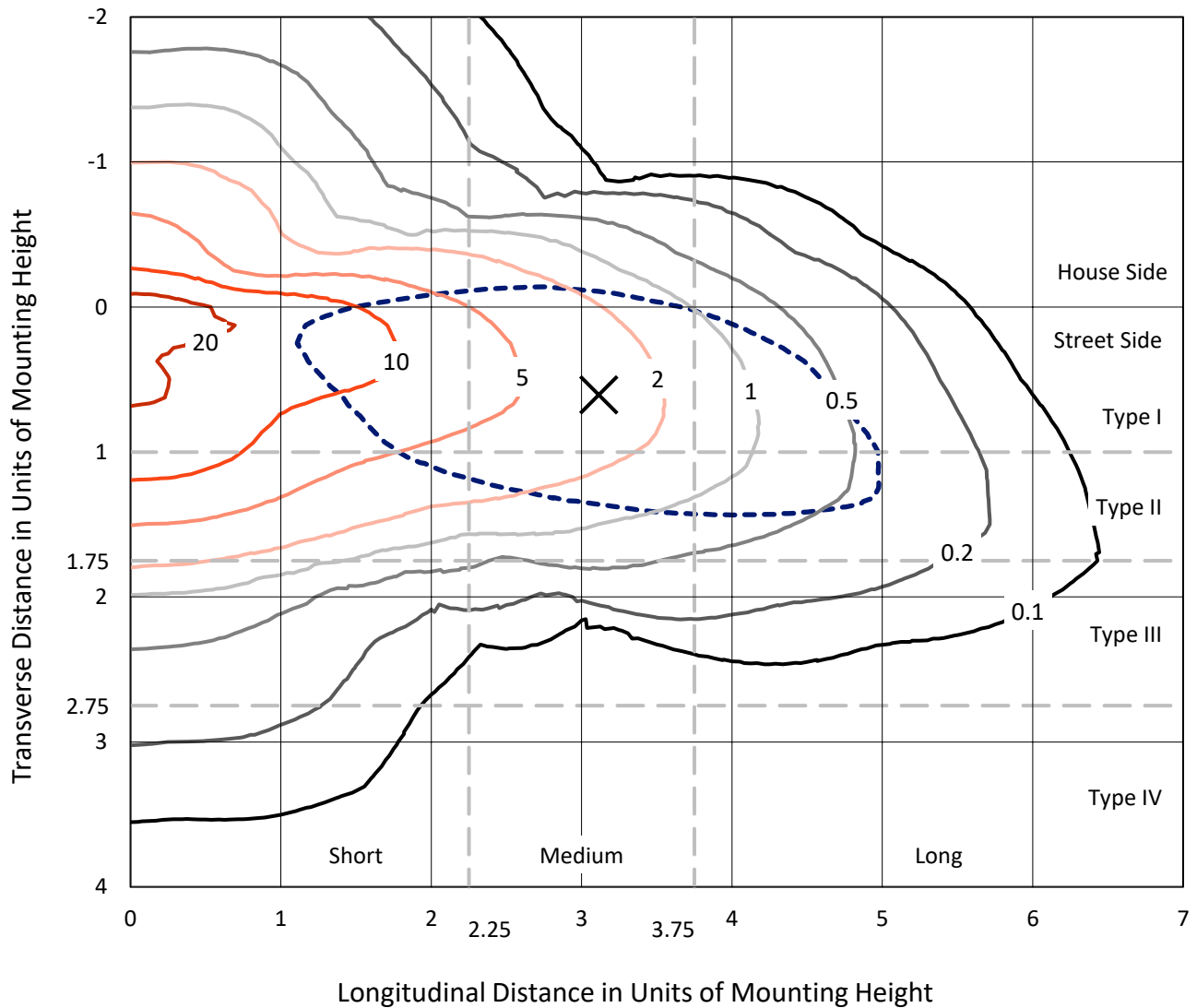
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

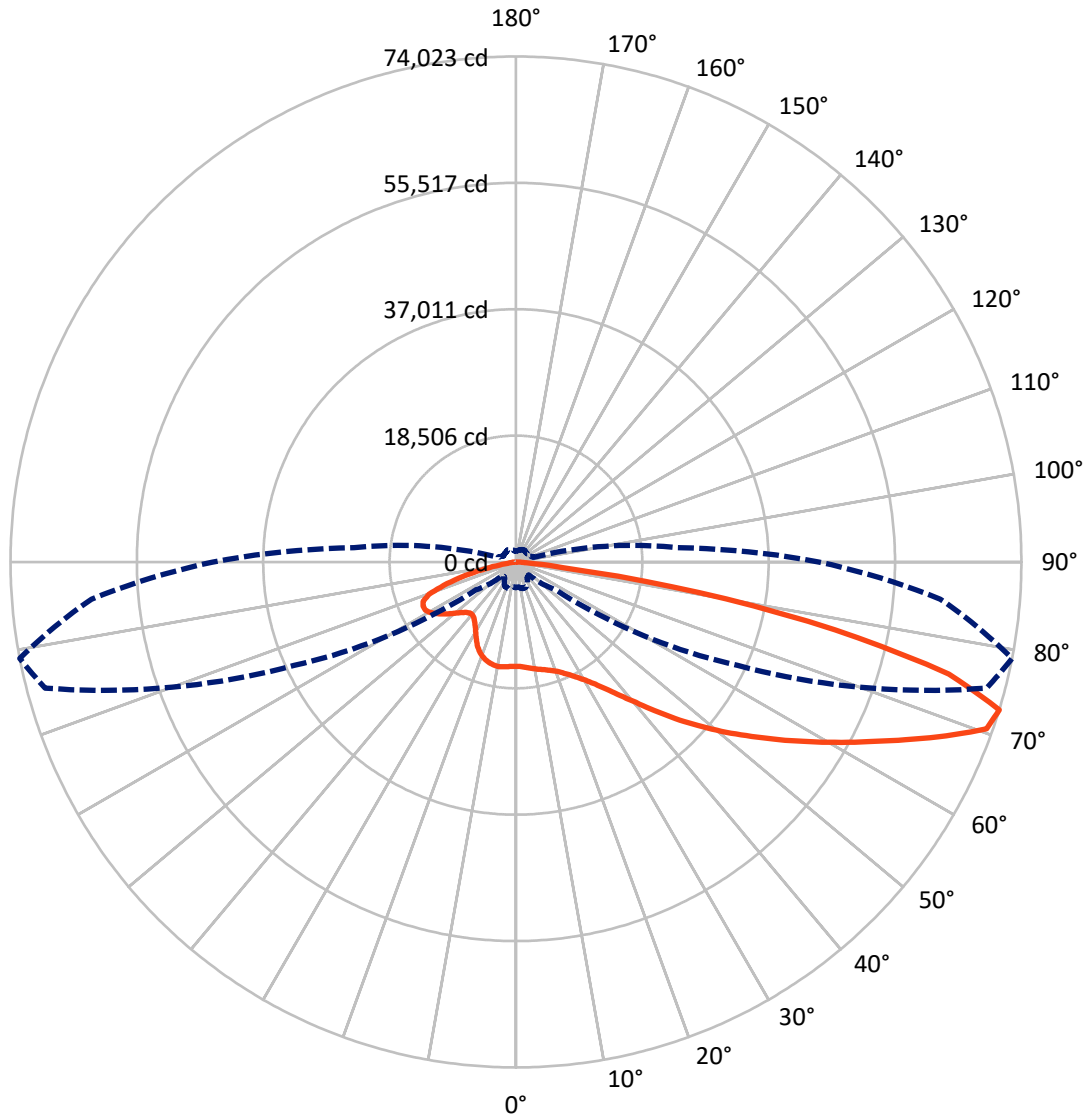
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16746.2	0.0	16746.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	59353.8	0.0	59353.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	76100.0	0.0	76100.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1386.7	1.8
10°-20°	3625.4	4.8
20°-30°	5849.9	7.7
30°-40°	8779.9	11.5
40°-50°	12454.8	16.4
50°-60°	15728.7	20.7
60°-70°	15974.6	21.0
70°-80°	10887.4	14.3
80°-90°	1412.6	1.9
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°	76100.0	100.0
0°-180°	76100.0	100.0

Coefficient of Utilization



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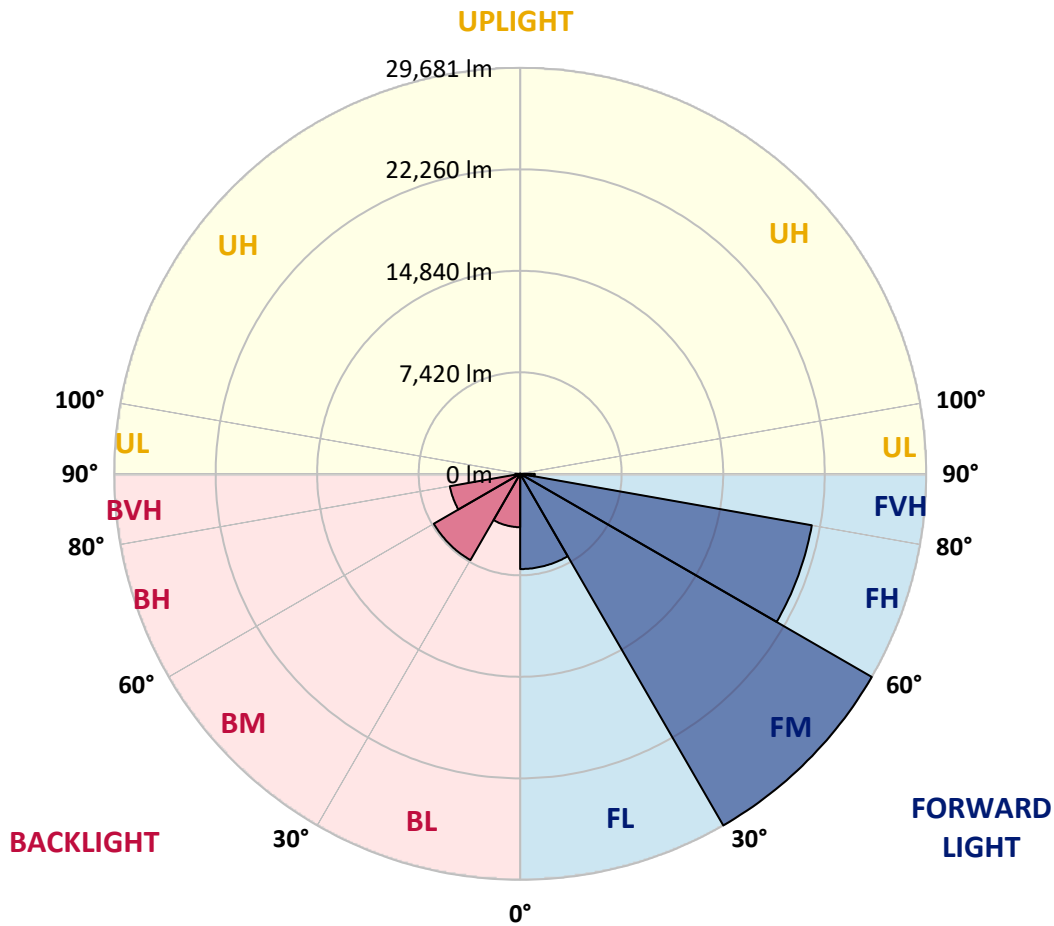
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6961.3	9.1			
FM (30°-60°)	29680.6	39.0			
FH (60°-80°)	21647.9	28.4			G5
FVH (80°-90°)	1064.1	1.4			G5
BL (0°-30°)	3900.7	5.1	B4/5000		
BM (30°-60°)	7282.8	9.6	B4/8500		
BH (60°-80°)	5214.2	6.9	B5		G5
BVH (80°-90°)	348.5	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	
0°	15276.4	15276.4	15276.4	15276.4	15276.4	15276.4	15276.4	15276.4	15276.4	15276.4	15276.4
2.5°	15284.4	15211.9	15256.2	15240.1	15260.2	15284.4	15292.5	15304.5	15344.8	15340.8	
5°	15252.2	15179.7	15240.1	15220.0	15272.3	15328.7	15377.0	15421.3	15485.7	15513.8	
7.5°	15183.8	15135.5	15195.8	15256.2	15352.8	15437.4	15505.8	15606.4	15699.0	15715.1	
10°	14785.3	14749.0	14889.9	15046.9	15312.6	15542.0	15691.0	15807.7	15908.3	15924.4	
12.5°	14370.6	14326.4	14483.3	14696.7	15127.4	15542.0	15856.0	16009.0	16097.5	16149.9	
15°	14302.2	14266.0	14354.5	14539.7	14898.0	15433.3	15968.7	16250.5	16327.0	16387.4	
17.5°	14632.3	14563.9	14600.1	14664.5	14873.8	15332.7	16057.3	16524.2	16641.0	16705.4	
20°	15397.1	15300.5	15244.1	15115.3	15079.1	15348.8	16049.2	16854.3	17007.3	17087.8	
22.5°	16415.5	16351.1	16230.4	15904.3	15550.1	15546.1	16202.2	17277.0	17562.8	17639.3	
25°	17647.3	17550.7	17397.7	16954.9	16274.6	15936.5	16459.8	17816.4	18295.4	18315.5	
27.5°	19064.2	18919.3	18710.0	18126.3	17208.5	16548.4	16854.3	18436.3	19136.7	19128.6	
30°	20557.7	20412.7	20191.4	19482.9	18327.6	17373.6	17401.8	19104.5	20135.0	20090.7	
32.5°	21648.5	21539.9	21495.6	20948.1	19615.7	18347.7	18029.7	19845.2	21366.8	21326.5	
35°	22485.8	22344.9	22397.3	22119.5	21020.6	19438.6	18798.6	20726.7	22864.2	22860.2	
37.5°	23315.1	23190.3	23234.5	23049.4	22320.8	20823.3	19736.5	21805.5	24719.9	24808.5	
40°	24071.8	23939.0	24116.1	23943.0	23331.2	22296.6	20803.2	23025.2	26869.5	27038.5	
42.5°	24526.7	24422.0	24715.9	24719.9	24208.7	23540.5	21974.6	24369.7	29357.2	29735.5	
45°	24683.7	24647.5	25090.2	25182.8	24985.6	24261.0	23029.3	25834.9	32038.1	32714.3	
47.5°	24514.6	24446.2	25058.0	25400.2	25557.2	24599.2	23902.8	27421.0	34775.3	35765.6	
50°	23661.2	23528.4	24438.1	25158.7	25718.2	24820.5	24784.3	29252.5	37887.0	38969.8	
52.5°	22127.6	22026.9	23061.5	24313.3	25364.0	24929.2	25774.6	31253.1	40841.6	42242.4	
55°	20167.2	20034.4	21173.5	22807.9	24482.4	24893.0	26764.8	33491.2	44327.6	45748.5	
57.5°	17059.6	16793.9	18235.0	20167.2	23045.4	24848.7	27795.3	35717.3	47869.9	49572.7	
60°	12527.0	12132.5	13899.7	16190.1	20235.6	24418.0	29071.4	38213.0	52120.7	53654.4	
62.5°	7294.0	7064.6	8219.8	10357.3	15252.2	21882.0	29787.9	41115.3	56299.1	57909.2	
65°	5663.7	5599.3	5700.0	5865.0	8489.5	16383.3	27577.9	43945.2	61612.6	62739.7	
67.5°	5180.7	5132.4	5176.7	4866.7	4307.2	9125.6	21817.6	44661.7	67304.5	67988.8	
70°	4605.0	4548.7	4693.6	4427.9	3389.4	4150.2	14096.9	42061.3	71833.1	73117.2	
72.5°	3751.7	3687.3	4025.4	3904.6	2854.0	2664.8	7080.7	35882.3	71358.1	74022.9	
75°	2882.2	2846.0	3248.5	3349.1	2326.7	2097.2	3397.4	26672.2	62796.1	65481.0	
77.5°	2238.1	2209.9	2415.2	2781.5	1875.8	1626.3	2089.2	16918.7	47322.5	47793.4	
80°	1678.6	1598.1	1787.3	2153.6	1461.2	1187.5	1416.9	9866.2	29912.7	27115.0	
82.5°	1050.6	1010.4	1167.4	1437.1	1030.5	817.2	921.8	5450.4	11987.6	7060.5	
85°	599.8	583.7	636.0	821.2	559.5	471.0	527.3	2407.2	2189.8	1505.5	
87.5°	241.5	233.5	289.8	366.3	205.3	173.1	185.2	579.7	483.0	446.8	
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°
15276.4	0°	15276.4	15276.4	15276.4	15276.4	15276.4	15276.4	15276.4	15276.4	15276.4	15276.4
15336.7	2.5°	15320.6	15320.6	15264.3	15175.7	15075.1	15010.7	14906.0	14877.8	14769.2	14736.9
15473.6	5°	15505.8	15473.6	15300.5	15050.9	14708.8	14394.8	14048.6	13831.2	13525.3	13416.6
15743.3	7.5°	15739.3	15650.7	15352.8	14805.4	14088.9	13384.4	12651.8	12096.3	11564.9	11375.7
15964.7	10°	15952.6	15827.8	15320.6	14362.6	13122.8	11903.1	10735.7	9918.6	9298.6	9045.0
16210.2	12.5°	16166.0	15936.5	15107.3	13625.9	11750.1	10095.7	8851.8	8215.8	7833.4	7527.5
16411.5	15°	16367.2	16045.2	14777.2	12639.7	10244.6	8566.0	7648.2	7141.0	6835.1	6633.8
16705.4	17.5°	16600.7	16137.8	14282.1	11387.8	8811.6	7507.4	6758.6	6452.7	6392.3	6368.2
17107.9	20°	16926.8	16222.3	13630.0	9987.0	7756.9	6662.0	6275.6	6247.4	6243.4	6231.3
17591.0	22.5°	17277.0	16323.0	12768.5	8715.0	6859.3	6134.7	6066.3	6009.9	5973.7	5969.7
18174.6	25°	17691.6	16355.2	11689.7	7672.4	6094.4	5885.1	5804.6	5720.1	5695.9	5695.9
18838.8	27.5°	18094.1	16246.5	10433.8	6766.7	5663.7	5655.7	5551.0	5522.8	5518.8	5530.9
19595.6	30°	18496.7	16041.2	9185.9	5929.4	5414.1	5414.1	5377.9	5398.0	5414.1	5454.4
20634.1	32.5°	19040.1	15823.8	8143.4	5309.5	5196.8	5156.5	5192.8	5233.0	5249.1	5301.4
21998.8	35°	19837.1	15670.8	7314.1	4971.4	4971.4	4919.0	4939.2	4931.1	4894.9	4870.7
23649.2	37.5°	20891.8	15662.8	6629.8	4814.4	4782.2	4774.1	4778.1	4725.8	4584.9	4415.9
25645.8	40°	22159.8	15880.2	6102.5	4705.7	4681.5	4729.8	4705.7	4564.8	4178.4	3884.5
28101.2	42.5°	23862.5	16500.1	5764.4	4572.8	4645.3	4705.7	4609.1	4122.0	3860.3	3663.1
30898.9	45°	25867.2	17506.4	5591.3	4432.0	4576.9	4649.3	4182.4	3969.0	3759.7	3522.2
33950.1	47.5°	28137.5	18774.4	5551.0	4299.1	4423.9	4468.2	4001.2	3904.6	3667.1	3409.5
37017.5	50°	30609.1	20275.9	5659.7	4142.1	4202.5	4049.5	3940.9	3852.3	3606.7	3353.1
40161.3	52.5°	33165.2	21930.3	5877.1	3928.8	3981.1	3812.0	3916.7	3840.2	3570.5	3228.4
43409.8	55°	35677.0	23596.8	6086.4	3679.2	3755.7	3598.7	3848.3	3791.9	3405.5	3019.0
46875.7	57.5°	38229.1	25255.3	6291.7	3457.8	3538.3	3393.4	3739.6	3663.1	3220.3	2825.8
50659.5	60°	40881.9	26865.4	6388.3	3244.5	3300.8	3204.2	3574.5	3441.7	3011.0	2628.6
54379.0	62.5°	43365.5	28205.9	6231.3	3031.1	3067.3	3027.1	3357.2	3180.1	2801.7	2407.2
58255.4	65°	45857.2	29002.9	5748.3	2821.8	2829.8	2809.7	3051.2	2898.3	2556.1	2214.0
61648.8	67.5°	48115.5	29449.7	4979.4	2596.4	2576.2	2568.2	2765.4	2592.4	2318.6	2020.7
64229.1	70°	48594.5	28314.6	3804.0	2330.7	2330.7	2310.6	2451.5	2274.3	2057.0	1815.5
62381.5	72.5°	44383.9	23818.2	2701.0	2028.8	2061.0	2020.7	2137.5	1988.5	1791.3	1630.3
53763.1	75°	35789.7	17466.2	1964.4	1718.8	1775.2	1706.8	1815.5	1710.8	1541.7	1537.7
37049.7	77.5°	24591.1	10800.1	1425.0	1416.9	1457.2	1368.6	1493.4	1437.1	1284.1	1215.7
16125.7	80°	10494.2	4307.2	1038.6	1094.9	1094.9	1014.4	1159.3	1175.4	1042.6	1010.4
3111.6	82.5°	2089.2	1223.7	728.6	752.7	708.5	684.3	821.2	909.7	1255.9	1396.8
937.9	85°	628.0	450.8	438.8	410.6	362.3	366.3	483.0	913.8	1127.1	644.1
310.0	87.5°	173.1	112.7	116.7	92.6	76.5	100.6	165.0	692.4	378.4	161.0
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>
15276.4
14789.3
13497.1
11399.9
9101.4
7628.1
6670.1
6384.3
6271.6
6013.9
5720.1
5563.1
5482.6
5345.7
4927.1
4419.9
3876.4
3655.1
3506.1
3389.4
3325.0
3204.2
2998.9
2817.8
2616.5
2403.2
2189.8
1996.6
1807.4
1582.0
1384.7
1139.2
1010.4
1400.8
555.5
136.9
0.0

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