

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: P943679

Luminaire Tested: **GALN-SB8B-735-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943679  
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-SB8B-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

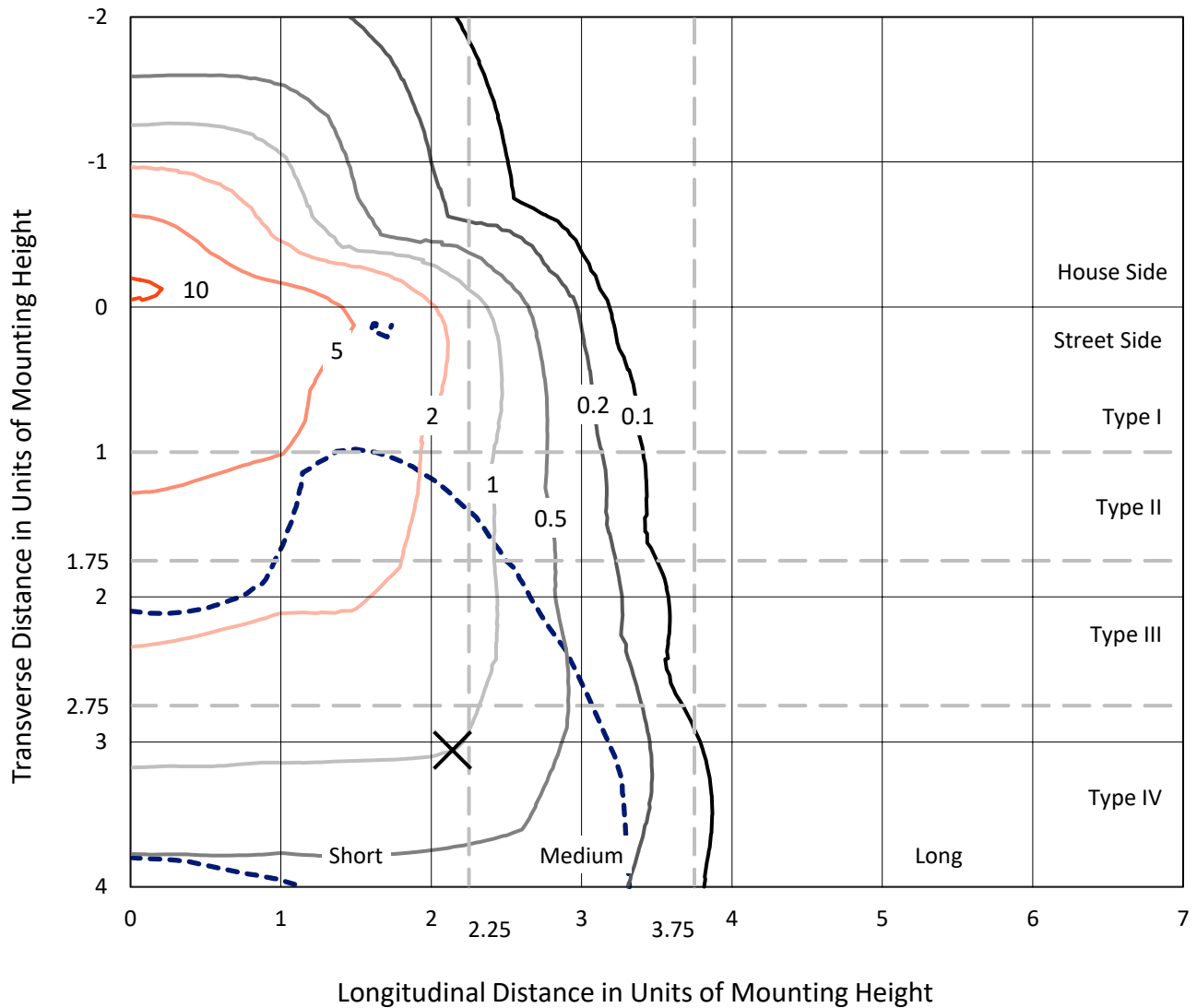
Lumens per Lamp: N/A  
Luminaire Lumens: 45004 lumens  
Efficiency: N/A  
Efficacy: 153.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

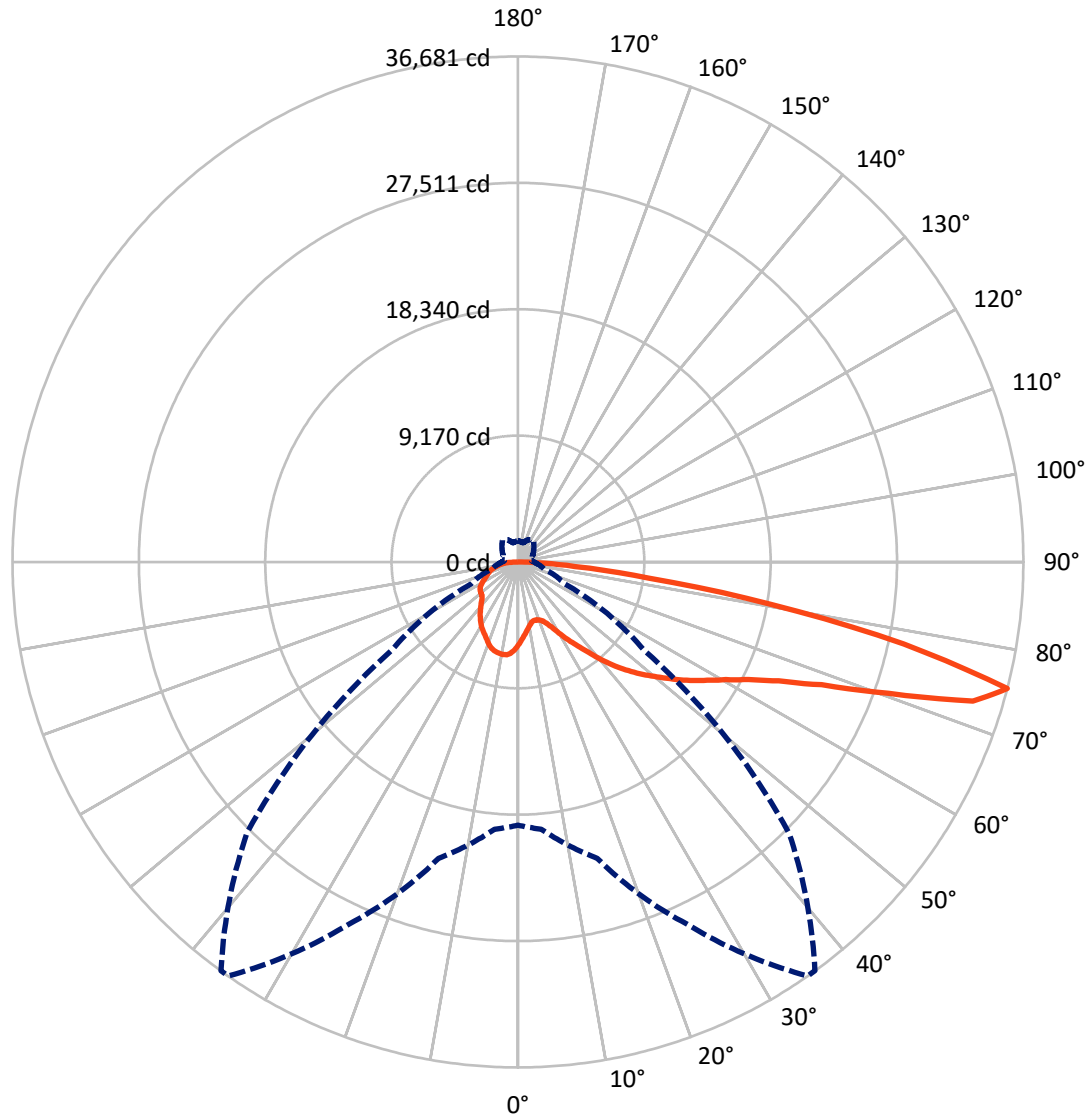
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10709.8	0.0	10709.8
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	34294.2	0.0	34294.2
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	45004.0	0.0	45004.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	567.8	1.3
10°-20°	1637.8	3.6
20°-30°	2750.3	6.1
30°-40°	4274.3	9.5
40°-50°	6344.2	14.1
50°-60°	8758.6	19.5
60°-70°	10626.2	23.6
70°-80°	8781.7	19.5
80°-90°	1263.1	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°	45004.0	100.0
0°-180°	45004.0	100.0



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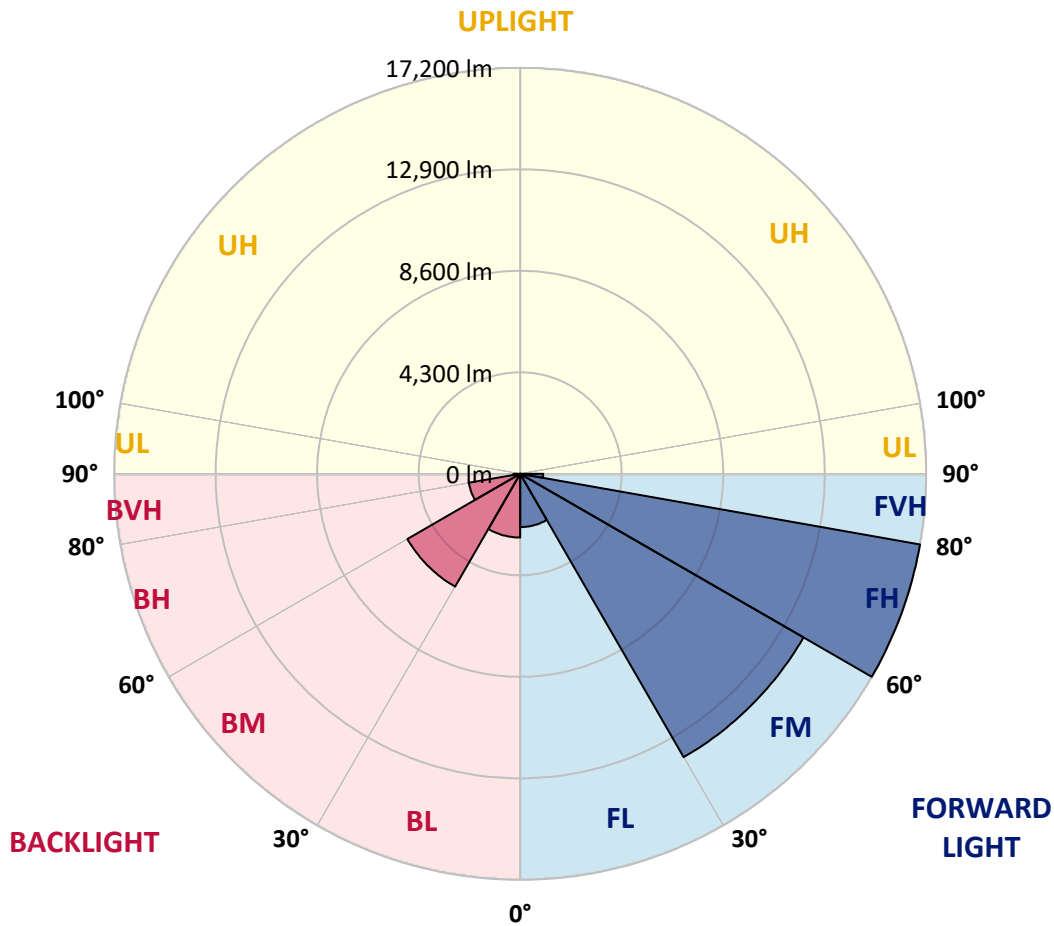
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2256.9	5.0			
FM (30°-60°)	13858.8	30.8			
FH (60°-80°)	17199.9	38.2			G5
FVH (80°-90°)	978.7	2.2			G5
BL (0°-30°)	2699.0	6.0	B4/5000		
BM (30°-60°)	5518.4	12.3	B4/8500		
BH (60°-80°)	2208.0	4.9	B3/2500		G3/2500
BVH (80°-90°)	284.4	0.6			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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	5997.1	5997.1	5997.1	5997.1	5997.1	5997.1	5997.1	5997.1	5997.1	5997.1
2.5°	5530.0	5564.0	5578.6	5571.3	5607.8	5603.0	5654.0	5717.3	5804.9	5890.0
5°	5104.2	5140.7	5172.3	5201.5	5272.1	5294.0	5374.3	5495.9	5656.5	5819.5
7.5°	4707.7	4739.3	4787.9	4841.5	4960.7	4982.6	5116.4	5306.1	5530.0	5768.4
10°	4384.1	4415.7	4466.8	4527.6	4676.0	4702.8	4873.1	5126.1	5418.1	5719.7
12.5°	4245.4	4255.1	4284.3	4345.2	4474.1	4491.1	4678.5	4968.0	5308.6	5683.2
15°	4238.1	4257.6	4260.0	4291.6	4398.7	4406.0	4578.7	4865.8	5240.5	5675.9
17.5°	4311.1	4325.7	4303.8	4323.3	4413.3	4425.4	4561.7	4817.1	5218.6	5707.6
20°	4505.7	4517.9	4452.2	4425.4	4491.1	4500.9	4634.7	4848.8	5240.5	5773.3
22.5°	4919.3	4926.6	4766.0	4656.6	4661.4	4666.3	4783.1	4977.7	5325.6	5892.5
25°	5564.0	5559.2	5303.7	5092.1	4970.4	4943.6	5021.5	5186.9	5469.1	6050.6
27.5°	6318.2	6281.7	6026.3	5710.0	5444.8	5405.9	5388.9	5459.4	5673.5	6259.8
30°	7169.7	7135.7	6860.8	6447.2	6079.8	6016.6	5856.0	5819.5	5977.6	6544.5
32.5°	8104.0	8082.1	7753.6	7252.5	6761.0	6688.0	6418.0	6320.7	6444.7	6975.1
35°	8887.4	8867.9	8595.4	8079.6	7478.7	7388.7	7113.8	7004.3	7067.6	7527.4
37.5°	9595.3	9585.6	9352.1	8945.8	8325.4	8215.9	7906.9	7870.4	7858.3	8254.8
40°	10252.2	10227.9	9984.6	9770.5	9310.7	9210.9	8938.5	8906.8	8814.4	9150.1
42.5°	10979.7	10916.4	10563.6	10463.9	10339.8	10257.1	10094.1	10098.9	9894.6	10159.8
45°	11573.3	11536.8	11174.3	11115.9	11249.7	11215.6	11356.8	11393.2	10996.7	11218.1
47.5°	12210.7	12176.6	11870.1	11828.7	12191.2	12201.0	12699.7	12711.9	12072.0	12317.7
50°	12996.5	12947.9	12643.8	12694.8	13101.1	13137.6	14050.0	13967.3	13062.2	13434.4
52.5°	13514.7	13543.9	13478.2	13561.0	14115.7	14149.7	15378.3	15166.7	14042.7	14536.6
55°	13896.7	13955.1	14159.5	14349.2	15186.1	15220.2	16631.3	16307.7	14855.3	15558.4
57.5°	14388.1	14305.4	14687.4	15057.2	16203.1	16293.1	17850.2	17407.4	15575.4	16439.1
60°	15093.7	15035.3	15332.1	15879.5	17341.7	17485.2	19139.6	18397.6	16103.3	17137.3
62.5°	16524.2	16378.3	16424.5	16908.6	18777.1	18966.9	20594.5	19261.2	16366.1	17409.8
65°	18662.7	18412.2	18178.6	18514.3	20798.8	20986.2	22236.7	19940.0	16268.8	16881.9
67.5°	21356.0	21107.8	20820.7	21137.0	23776.7	23925.1	24263.3	20322.0	15502.4	14848.0
70°	23577.2	23484.7	23827.8	25129.4	28533.0	28537.9	26861.6	20005.7	13402.8	10527.1
72.5°	23282.8	23226.9	25034.5	29058.5	34527.7	34398.7	29321.3	17611.7	9028.5	4749.0
75°	19100.7	19463.2	22263.4	28988.0	36680.8	36663.7	27815.3	11196.2	3734.5	1968.2
77.5°	10242.5	10816.7	14453.8	21402.2	28635.2	29065.8	19555.6	3917.0	1603.3	1260.2
80°	3340.4	3841.5	5761.1	10896.9	18606.8	18526.5	8381.3	1537.6	1097.2	892.9
82.5°	1418.4	1476.8	2574.0	5145.6	9549.1	9400.7	2668.9	883.1	771.2	610.7
85°	554.7	620.4	1136.2	2379.4	4135.9	4045.9	963.4	437.9	493.9	399.0
87.5°	182.5	221.4	406.3	815.0	1287.0	1240.8	236.0	150.8	214.1	182.5
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°
5997.1	0°	5997.1	5997.1	5997.1	5997.1	5997.1	5997.1	5997.1	5997.1	5997.1	5997.1
6014.1	2.5°	6048.2	6087.1	6133.3	6201.5	6259.8	6308.5	6359.6	6391.2	6403.4	6439.9
6023.8	5°	6092.0	6177.1	6291.5	6403.4	6512.9	6578.5	6636.9	6666.1	6692.9	6712.4
6050.6	7.5°	6165.0	6274.4	6454.5	6600.4	6692.9	6746.4	6785.3	6775.6	6785.3	6790.2
6079.8	10°	6228.2	6381.5	6595.6	6734.3	6804.8	6807.2	6797.5	6763.4	6746.4	6748.9
6123.6	12.5°	6303.6	6473.9	6705.1	6821.8	6841.3	6787.8	6746.4	6688.0	6666.1	6656.4
6189.3	15°	6405.8	6600.4	6824.3	6868.1	6819.4	6751.3	6680.7	6585.8	6537.2	6498.3
6301.2	17.5°	6529.9	6744.0	6916.7	6885.1	6780.5	6668.6	6554.2	6410.7	6310.9	6269.6
6454.5	20°	6702.6	6894.8	6987.3	6848.6	6690.5	6520.2	6325.5	6150.4	6057.9	6016.6
6649.1	22.5°	6911.9	7096.8	7055.4	6785.3	6561.5	6289.0	6045.7	5916.8	5870.6	5841.4
6899.7	25°	7162.4	7320.6	7104.1	6692.9	6349.9	5982.5	5795.2	5753.8	5731.9	5710.0
7206.2	27.5°	7488.5	7573.6	7140.5	6556.7	6019.0	5656.5	5588.4	5595.7	5588.4	5551.9
7632.0	30°	7919.1	7902.0	7174.6	6335.3	5639.5	5362.1	5367.0	5398.6	5403.5	5379.1
8225.6	32.5°	8485.9	8313.2	7191.6	6048.2	5277.0	5104.2	5109.1	5143.1	5167.5	5126.1
9001.7	35°	9172.0	8792.5	7164.9	5688.1	4997.2	4858.5	4822.0	4831.7	4839.0	4800.1
9943.2	37.5°	9972.4	9330.2	7045.7	5289.1	4766.0	4617.6	4539.8	4474.1	4435.2	4398.7
11008.9	40°	10850.7	9916.5	6826.7	4899.9	4508.2	4362.2	4245.4	4121.3	3989.9	3941.3
12137.7	42.5°	11770.3	10519.8	6561.5	4527.6	4211.3	4092.1	3968.1	3788.0	3591.0	3491.2
13310.4	45°	12724.0	11137.8	6301.2	4160.3	3907.2	3856.1	3712.6	3496.1	3282.0	3155.5
14485.5	47.5°	13658.3	11721.7	5919.2	3790.5	3622.6	3678.5	3566.6	3367.1	3128.7	2929.2
15650.8	50°	14551.1	12269.1	5294.0	3415.8	3391.5	3625.0	3518.0	3230.9	2958.4	2702.9
16794.3	52.5°	15436.7	12711.9	4493.6	3075.2	3267.4	3610.4	3454.7	3138.4	2805.1	2537.5
17869.6	55°	16188.5	12940.6	3722.3	2783.2	3087.3	3486.3	3379.3	3029.0	2588.6	2304.0
18606.8	57.5°	16616.7	12755.7	3080.0	2496.2	2839.2	3282.0	3250.3	2795.4	2330.7	2111.8
18750.3	60°	16431.8	12006.3	2554.5	2245.6	2603.2	3060.6	3026.5	2564.3	2133.6	1926.9
17981.5	62.5°	15412.4	10578.2	2138.5	2026.6	2389.1	2834.3	2802.7	2386.7	1982.8	1783.3
15940.3	65°	13359.0	8605.2	1814.9	1844.1	2172.6	2561.8	2608.1	2238.3	1863.6	1669.0
12332.3	67.5°	10189.0	6233.1	1561.9	1686.0	1960.9	2294.2	2428.0	2131.2	1763.8	1578.9
7135.7	70°	5807.3	3539.9	1347.8	1532.7	1773.6	2046.1	2289.4	2046.1	1656.8	1503.5
2673.8	72.5°	2201.8	1625.2	1165.4	1379.5	1593.5	1836.8	2136.1	1912.3	1532.7	1418.4
1381.9	75°	1175.1	990.2	980.5	1199.4	1386.8	1632.5	1943.9	1780.9	1440.3	1498.7
956.1	77.5°	800.4	700.7	819.9	1026.7	1160.5	1406.2	1739.5	1581.4	1248.1	1243.2
661.7	80°	554.7	496.3	666.6	827.2	897.7	1182.4	1518.1	1357.6	1017.0	948.8
408.7	82.5°	333.3	323.6	498.7	618.0	635.0	912.3	1257.8	1138.6	832.1	725.0
243.3	85°	182.5	192.2	318.7	362.5	369.8	637.4	985.3	880.7	639.9	537.7
87.6	87.5°	51.1	65.7	116.8	143.5	177.6	330.9	586.3	523.1	321.1	223.8
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>
5997.1
6437.4
6717.2
6797.5
6753.7
6651.5
6510.4
6272.0
6011.7
5846.2
5710.0
5559.2
5391.3
5145.6
4826.9
4423.0
3963.2
3503.4
3145.7
2907.3
2681.1
2508.3
2279.6
2082.6
1897.7
1751.7
1637.3
1549.8
1484.1
1398.9
1547.3
1145.9
907.5
729.9
542.5
223.8
0.0

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