

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: P955285

Luminaire Tested: **GALN-SB8B-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-740-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49454 lumens
Efficiency: N/A
Efficacy: 168.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

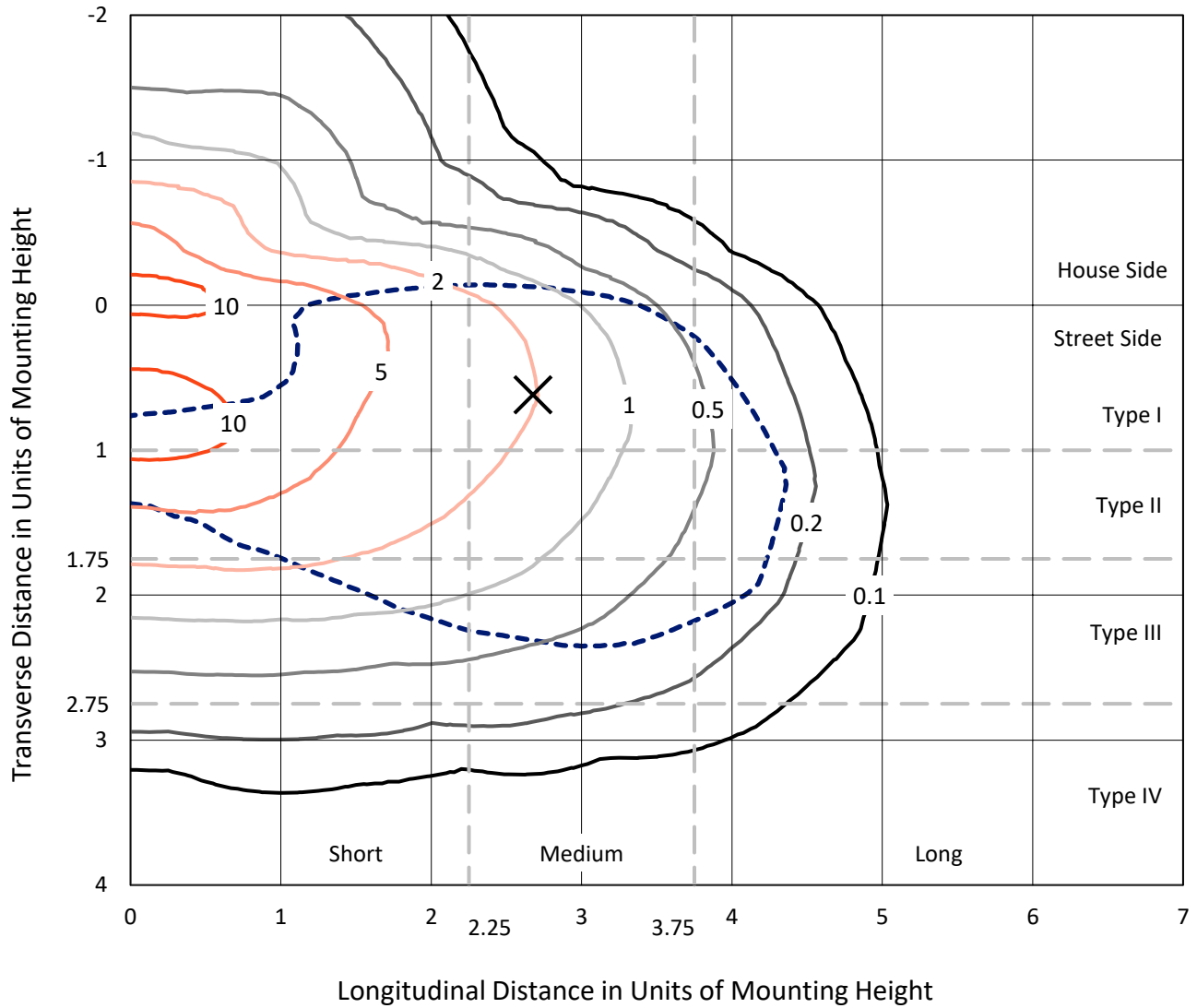
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

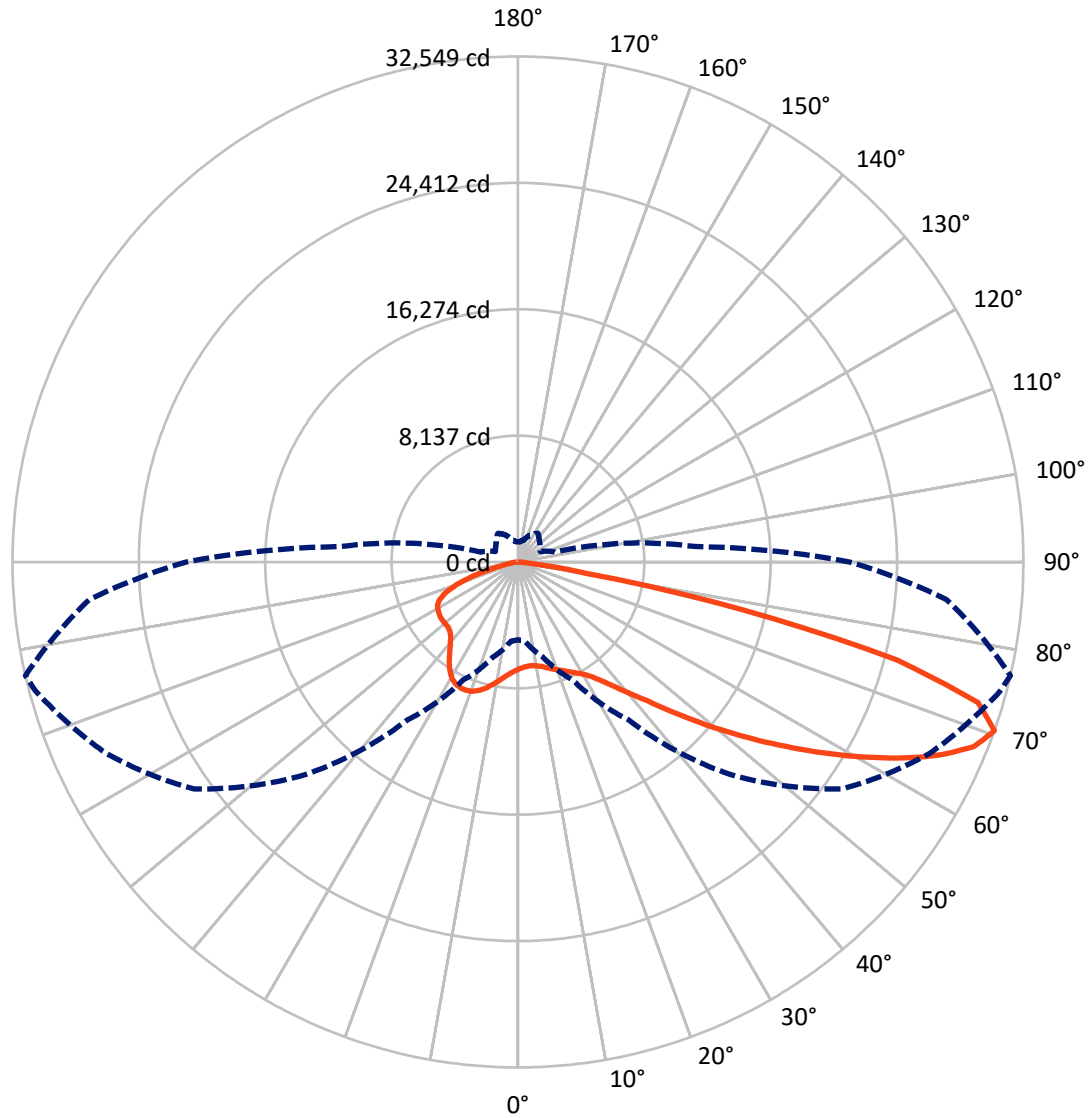
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10829.7	0.0	10829.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	38624.3	0.0	38624.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	49454.0	0.0	49454.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.0	1.3
10°-20°	1899.1	3.8
20°-30°	3247.7	6.6
30°-40°	5222.6	10.6
40°-50°	8153.8	16.5
50°-60°	10891.6	22.0
60°-70°	11608.7	23.5
70°-80°	7146.3	14.5
80°-90°	626.2	1.3
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°	49454.0	100.0
0°-180°	49454.0	100.0

Coefficient of Utilization



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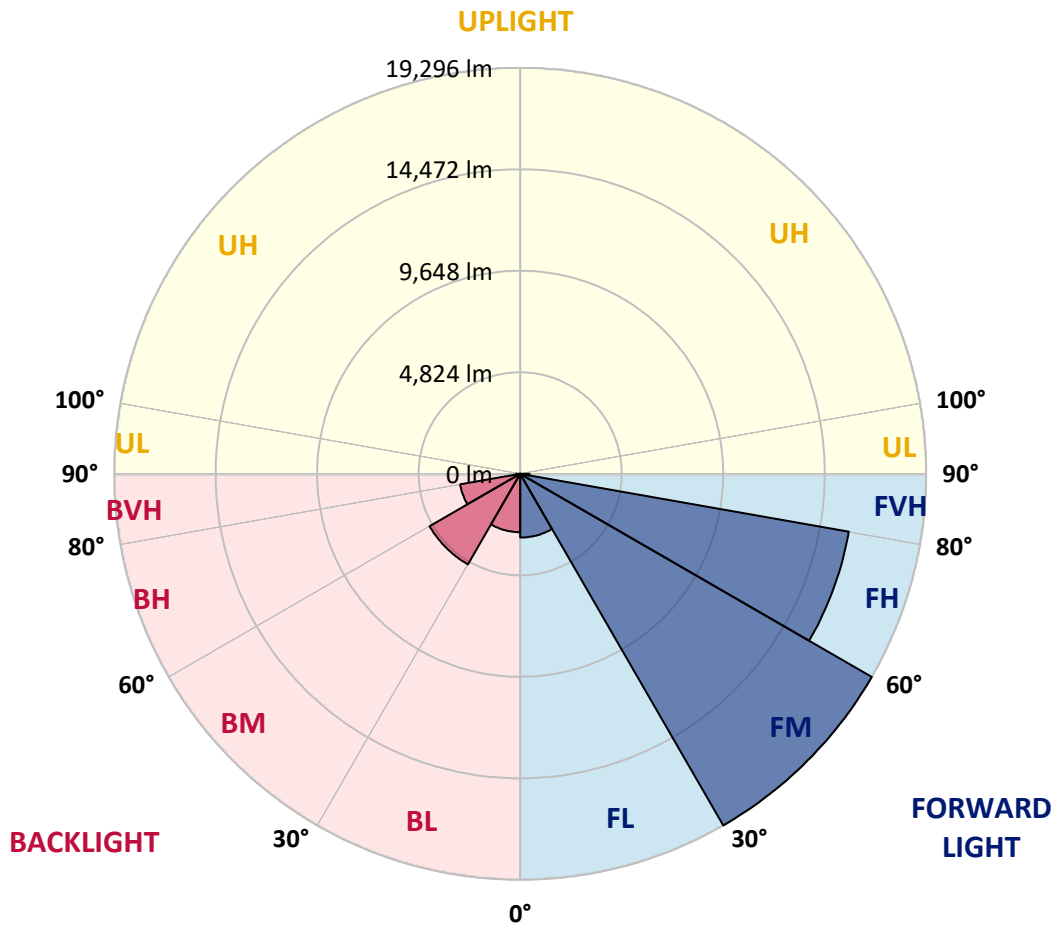
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3029.9	6.1			
FM (30°-60°)	19295.9	39.0			
FH (60°-80°)	15860.7	32.1			G5
FVH (80°-90°)	437.9	0.9			G3/500
BL (0°-30°)	2774.9	5.6	B4/5000		
BM (30°-60°)	4972.1	10.1	B3/5000		
BH (60°-80°)	2894.3	5.9	B4/5000		G4/5000
BVH (80°-90°)	188.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6899.3	6899.3	6899.3	6899.3	6899.3	6899.3	6899.3	6899.3	6899.3	6899.3
2.5°	6359.8	6357.3	6390.2	6400.3	6461.1	6504.2	6585.2	6671.3	6782.8	6795.4
5°	5992.6	5992.6	6030.5	6071.1	6149.6	6235.7	6359.8	6509.2	6701.7	6732.1
7.5°	5681.0	5701.3	5734.2	5812.7	5903.9	6028.0	6218.0	6430.7	6684.0	6732.1
10°	5430.3	5453.1	5493.6	5556.9	5693.7	5865.9	6114.1	6387.7	6727.1	6803.0
12.5°	5351.8	5374.6	5397.3	5445.5	5572.1	5774.7	6071.1	6407.9	6830.9	6906.9
15°	5534.1	5562.0	5544.2	5531.6	5597.4	5782.3	6091.3	6481.4	6960.1	7069.0
17.5°	5954.6	5964.7	5924.2	5805.1	5795.0	5893.8	6187.6	6582.7	7122.2	7241.2
20°	6633.3	6615.6	6532.0	6296.5	6162.2	6142.0	6352.2	6734.7	7289.3	7416.0
22.5°	7555.3	7535.0	7367.8	6995.5	6696.7	6499.1	6590.3	6932.2	7476.8	7618.6
25°	8705.2	8677.3	8431.6	7925.1	7461.6	6972.7	6914.5	7193.1	7707.2	7838.9
27.5°	10047.5	10024.7	9758.8	9090.1	8421.5	7621.1	7317.2	7499.6	7947.9	8097.3
30°	11491.2	11557.1	11086.0	10366.7	9520.7	8467.1	7859.2	7876.9	8259.4	8393.6
32.5°	13188.2	13302.1	12734.8	11823.0	10668.1	9386.5	8543.1	8403.8	8712.8	8824.2
35°	14869.9	14999.1	14528.0	13520.0	12190.3	10470.5	9257.3	9009.1	9315.6	9437.1
37.5°	16323.7	16496.0	16252.8	15376.5	13818.8	11777.4	10189.4	9720.8	10057.7	10209.6
40°	17471.1	17734.5	17716.8	17169.7	15738.7	13362.9	11372.2	10599.7	10979.6	11144.2
42.5°	18403.2	18631.1	18828.7	18800.8	17742.1	15163.7	12762.7	11742.0	12030.7	12220.6
45°	19046.5	19289.6	19715.1	20173.6	19669.5	17091.2	14355.8	13097.0	13360.4	13646.6
47.5°	19621.4	19897.5	20449.6	21176.5	21305.7	19026.2	16100.9	14674.9	14915.5	15211.9
50°	19672.1	19910.2	20766.2	21797.1	22468.3	20885.3	17975.1	16445.3	16670.7	16987.3
52.5°	18448.7	18823.6	20317.9	21779.3	23002.7	22440.4	19836.7	18286.6	18539.9	18919.8
55°	14320.3	14869.9	19003.4	21100.6	22812.7	23445.9	21607.1	20244.5	20568.7	20966.3
57.5°	12334.6	12575.2	15085.2	19864.6	21946.5	23706.8	23101.5	22222.6	22744.3	23180.0
60°	11086.0	11286.1	12770.3	17942.2	20806.8	23293.9	24256.4	24066.4	24968.1	25487.3
62.5°	9748.7	9938.6	11288.6	14981.4	19347.9	22607.6	24985.8	25768.5	27247.6	27815.0
65°	8421.5	8583.6	9877.8	12587.9	17493.9	21921.2	25363.2	27240.0	29357.4	29945.0
67.5°	6942.3	7076.6	8299.9	10619.9	15239.7	20981.5	25550.7	28397.5	31193.7	31697.7
70°	5009.8	5113.7	6377.5	8398.7	12410.6	19365.6	25474.7	29218.1	32146.0	32548.7
72.5°	2368.1	2461.9	3946.1	5453.1	8765.9	16219.9	23937.3	28567.2	31178.5	30978.4
75°	1263.9	1344.9	2266.8	2991.2	4629.9	11118.9	19588.5	24608.5	26181.3	25208.7
77.5°	856.1	919.4	1403.2	1795.7	2114.9	5278.3	12590.4	17038.0	16392.1	14786.4
80°	678.8	744.6	1149.9	1215.7	1023.2	1907.2	5202.3	7887.1	5665.8	4531.1
82.5°	521.8	595.2	967.5	881.4	557.2	782.6	1514.6	2494.8	1451.3	1104.3
85°	319.1	397.6	759.8	562.3	314.1	357.1	514.2	694.0	443.2	369.8
87.5°	162.1	227.9	385.0	205.2	141.8	83.6	136.8	136.8	116.5	101.3
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°
6899.3	0°	6899.3	6899.3	6899.3	6899.3	6899.3	6899.3	6899.3	6899.3	6899.3	6899.3
6863.8	2.5°	6924.6	6975.3	7061.4	7142.4	7205.8	7266.5	7327.3	7360.2	7370.4	7410.9
6901.8	5°	7005.7	7099.4	7266.5	7423.6	7522.3	7583.1	7626.2	7651.5	7656.6	7669.2
7005.7	7.5°	7155.1	7304.5	7537.5	7694.6	7768.0	7763.0	7745.2	7681.9	7656.6	7633.8
7157.6	10°	7365.3	7562.9	7849.1	7958.0	7912.4	7790.8	7633.8	7448.9	7362.8	7279.2
7365.3	12.5°	7626.2	7876.9	8158.1	8153.0	7927.6	7616.1	7251.3	6967.7	6787.8	6658.7
7621.1	15°	7942.8	8231.5	8446.8	8274.6	7780.7	7220.9	6686.5	6316.7	6154.6	6012.8
7879.5	17.5°	8269.5	8578.5	8677.3	8236.6	7410.9	6635.9	6030.5	5739.3	5579.7	5503.7
8158.1	20°	8588.6	8895.1	8814.1	8018.8	6848.6	5972.3	5432.8	5273.2	5240.3	5258.0
8429.1	22.5°	8925.5	9199.0	8841.9	7598.3	6131.9	5293.5	4997.2	5002.2	5075.7	5128.9
8712.8	25°	9270.0	9454.9	8768.5	6990.5	5361.9	4794.5	4721.1	4802.1	4946.5	5050.4
9031.9	27.5°	9601.8	9682.8	8608.9	6238.2	4700.8	4437.4	4450.1	4617.3	4835.1	4979.4
9419.4	30°	9976.6	9885.4	8302.4	5392.3	4242.4	4131.0	4237.3	4432.4	4650.2	4779.3
9908.2	32.5°	10399.6	10060.2	7816.1	4609.7	3918.2	3885.3	4060.0	4186.7	4282.9	4320.9
10556.6	35°	10926.4	10305.9	7193.1	4060.0	3626.9	3705.5	3872.6	3809.3	3771.3	3751.0
11427.9	37.5°	11610.2	10637.7	6463.6	3702.9	3391.4	3576.3	3644.7	3447.1	3297.7	3224.2
12484.1	40°	12433.4	11124.0	5762.1	3426.8	3242.0	3464.8	3345.8	3107.7	2917.8	2813.9
13671.9	42.5°	13347.7	11633.0	5171.9	3219.2	3158.4	3373.7	3125.4	2841.8	2535.3	2502.4
15087.8	45°	14307.7	12157.3	4769.2	3059.6	3117.8	3295.1	2998.8	2540.4	2322.6	2456.8
16508.6	47.5°	15267.6	12638.6	4526.1	2940.6	3097.6	3206.5	2887.4	2373.2	2218.7	2413.7
18030.8	50°	16336.4	13069.1	4417.2	2854.4	3074.8	3171.0	2720.2	2330.2	2109.8	2239.0
19606.2	52.5°	17397.6	13403.5	4336.1	2768.3	3041.9	3143.2	2639.2	2279.5	1978.1	1985.7
21191.7	55°	18456.3	13621.3	4247.5	2654.4	2968.4	3082.4	2631.6	2223.8	1879.3	1843.9
22868.4	57.5°	19586.0	13745.4	4138.6	2527.7	2841.8	2927.9	2624.0	2180.7	1848.9	1790.7
24583.1	60°	20735.8	13927.7	3996.7	2373.2	2672.1	2743.0	2606.2	2165.5	1831.2	1732.4
26199.0	62.5°	21766.7	13991.1	3827.0	2226.3	2454.3	2560.6	2568.2	2152.9	1783.1	1613.4
27541.4	65°	22442.9	13717.5	3530.7	2059.1	2218.7	2373.2	2494.8	2109.8	1697.0	1527.3
28205.0	67.5°	22415.1	12937.4	3067.2	1843.9	1990.8	2165.5	2388.4	2036.4	1593.1	1420.9
27703.5	70°	21371.6	11397.5	2479.6	1593.1	1740.0	1942.6	2251.6	1927.4	1469.0	1304.4
24633.8	72.5°	18329.7	8920.4	1800.8	1299.3	1448.7	1712.2	2074.3	1795.7	1342.4	1200.5
18205.6	75°	13094.5	5645.6	1220.8	997.9	1127.1	1451.3	1854.0	1641.2	1225.9	1205.6
9118.0	77.5°	6689.1	2697.4	808.0	729.4	785.2	1144.8	1557.7	1466.5	1243.6	995.4
2593.6	80°	2175.7	995.4	509.1	496.4	521.8	762.4	1205.6	1203.1	942.2	676.3
628.1	82.5°	694.0	428.0	331.8	319.1	306.5	478.7	840.9	952.3	635.7	428.0
225.4	85°	276.1	255.8	195.0	179.8	129.2	225.4	440.7	633.2	473.6	309.0
58.3	87.5°	101.3	101.3	53.2	38.0	27.9	76.0	119.0	190.0	271.0	159.6
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>
6899.3
7433.7
7689.5
7638.9
7253.9
6628.3
5997.6
5526.5
5250.4
5141.5
5078.2
5014.9
4809.7
4341.2
3771.3
3242.0
2821.5
2535.3
2527.7
2504.9
2335.2
2038.9
1869.2
1798.3
1740.0
1613.4
1527.3
1428.5
1319.6
1192.9
1137.2
886.5
597.7
425.5
316.6
157.0
0.0

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