

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: P954798

Luminaire Tested: **GALN-SB7D-940-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954798  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7D-940-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

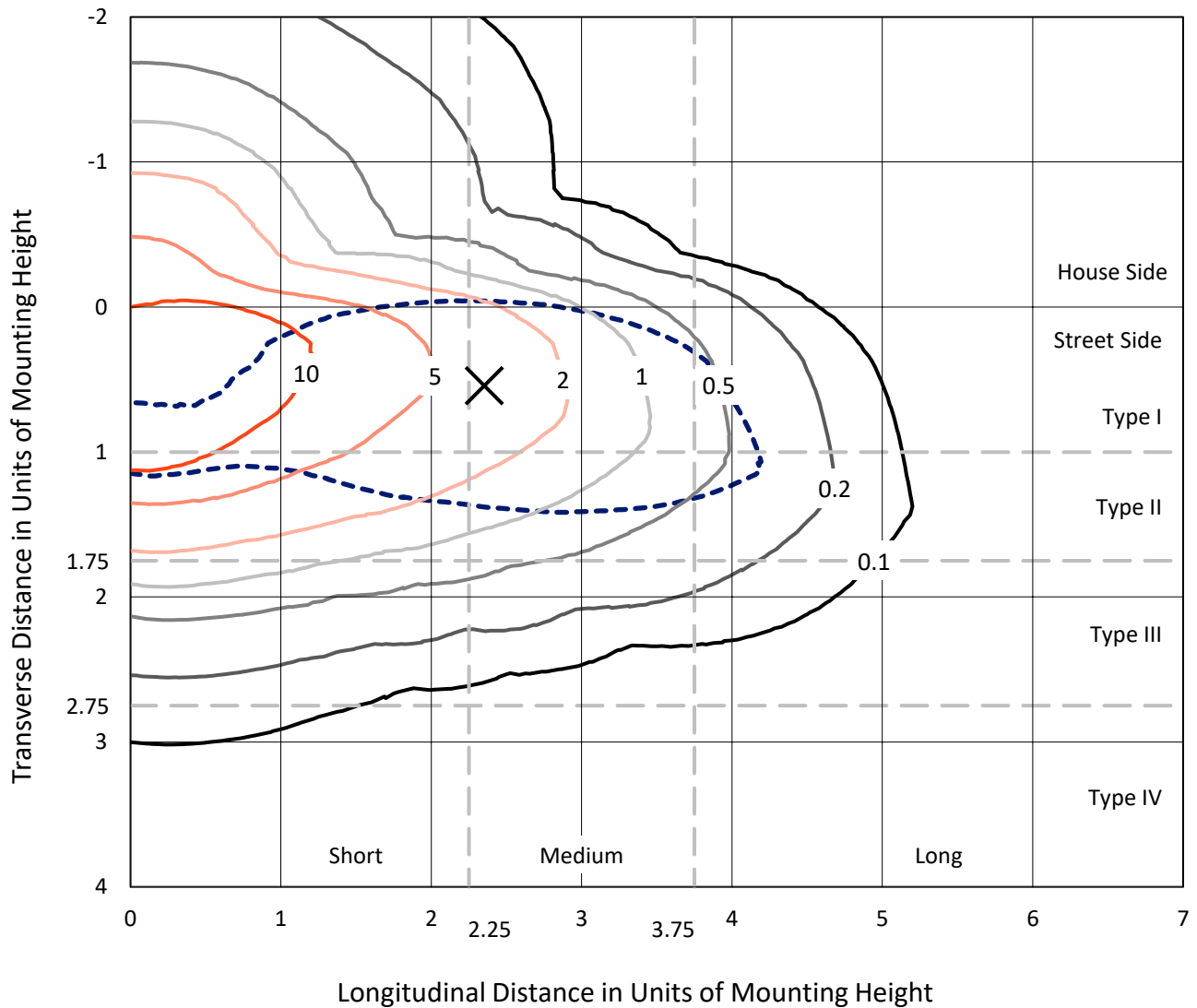
Lumens per Lamp: N/A  
Luminaire Lumens: 53414 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

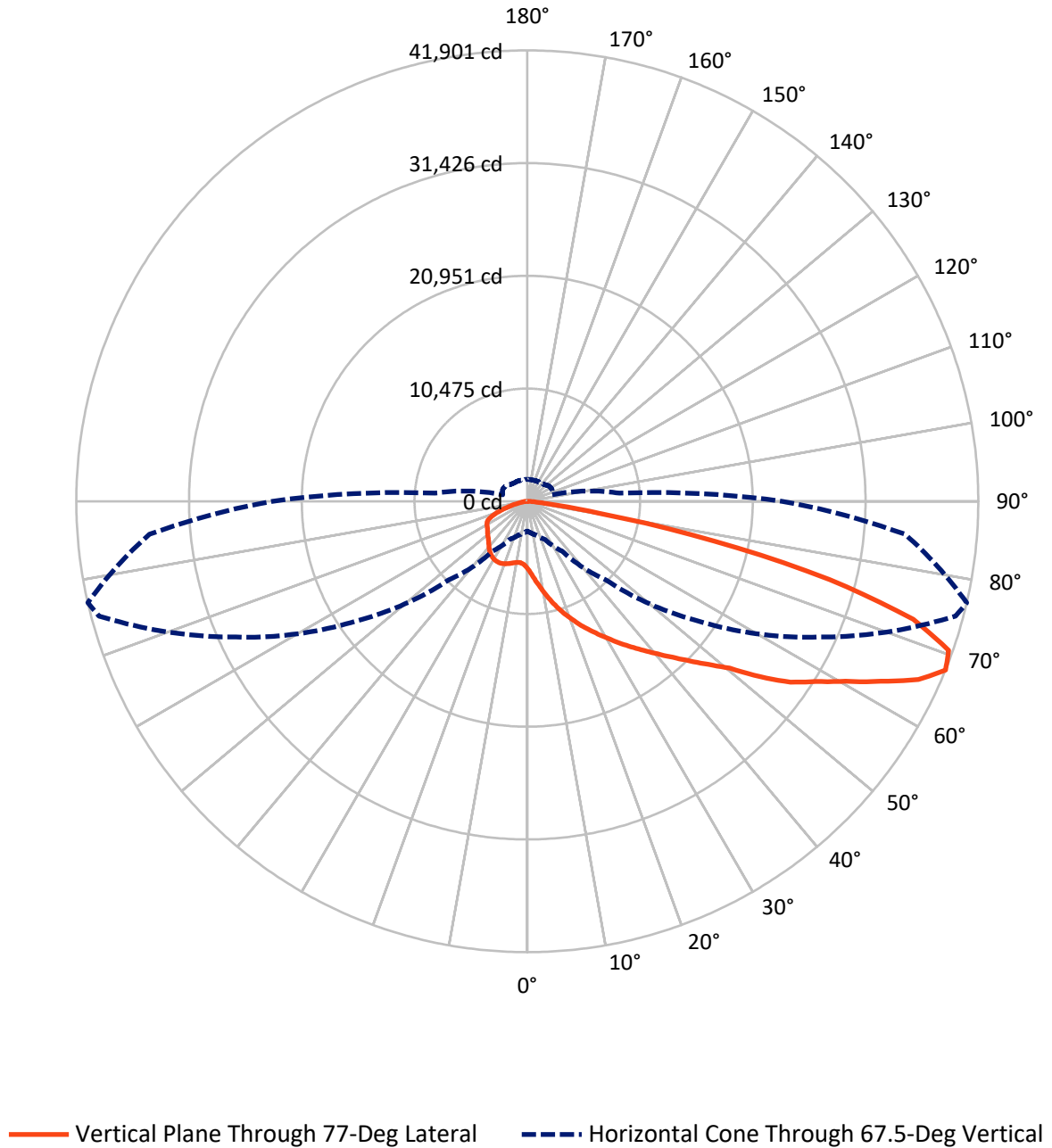
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10103.8	0.0	10103.8
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	43310.2	0.0	43310.2
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	53414.0	0.0	53414.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	671.8	1.3
10°-20°	2413.3	4.5
20°-30°	4556.6	8.5
30°-40°	7340.6	13.7
40°-50°	10040.6	18.8
50°-60°	11325.9	21.2
60°-70°	10571.3	19.8
70°-80°	5794.9	10.8
80°-90°	699.0	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°	53414.0	100.0
0°-180°	53414.0	100.0



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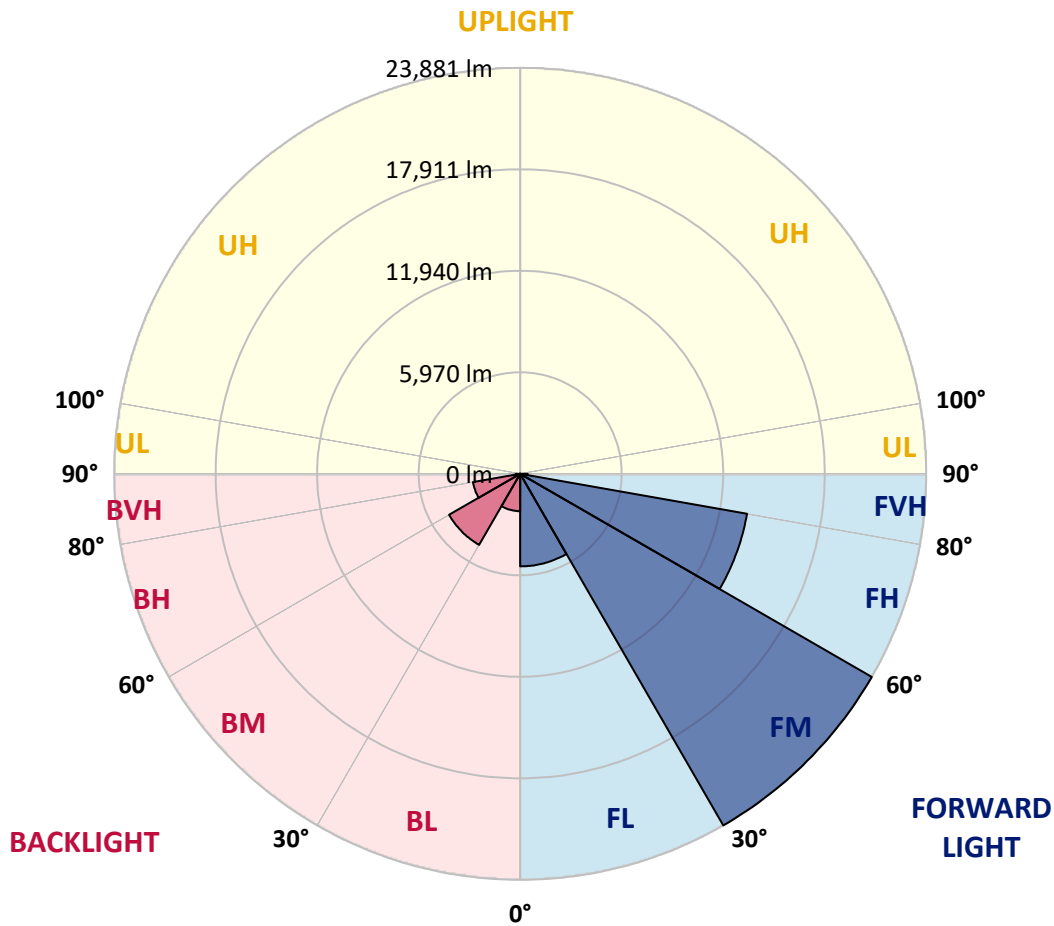
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5444.9	10.2			
FM (30°-60°)	23880.8	44.7			
FH (60°-80°)	13547.4	25.4			G5
FVH (80°-90°)	437.1	0.8			G3/500
BL (0°-30°)	2196.8	4.1	B3/2500		
BM (30°-60°)	4826.3	9.0	B3/5000		
BH (60°-80°)	2818.8	5.3	B4/5000		G4/5000
BVH (80°-90°)	261.9	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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6267.1	6267.1	6267.1	6267.1	6267.1	6267.1	6267.1	6267.1	6267.1	6267.1
2.5°	7847.0	7902.1	7833.2	7833.2	7601.6	7480.3	7248.7	7072.2	6755.1	6700.0
5°	9275.2	9344.2	9247.7	9206.3	8933.3	8682.4	8293.7	7910.4	7345.2	7287.3
7.5°	10380.9	10469.1	10383.6	10339.5	10096.9	9815.6	9360.7	8825.8	8029.0	7915.9
10°	11282.5	11296.3	11268.7	11285.2	11095.0	10863.4	10397.4	9774.3	8778.9	8624.5
12.5°	11792.6	11856.0	11911.1	12010.4	11977.3	11833.9	11414.8	10670.4	9573.0	9374.5
15°	12032.4	12142.7	12266.8	12495.6	12680.4	12716.2	12396.4	11632.6	10380.9	10141.0
17.5°	12117.9	12222.7	12418.4	12749.3	13146.3	13413.8	13270.4	12567.3	11180.5	10904.7
20°	12550.8	12581.1	12699.7	13014.0	13444.1	13888.0	13995.6	13466.2	11971.8	11660.2
22.5°	13477.2	13416.5	13449.6	13593.0	13901.8	14331.9	14577.3	14260.3	12785.1	12426.7
25°	15007.5	14831.0	14654.5	14489.1	14646.3	14888.9	15167.4	15054.3	13637.1	13182.2
27.5°	16940.3	16725.2	16336.4	15793.3	15603.0	15688.5	15812.6	15790.5	14425.7	13965.2
30°	18842.7	18591.8	18128.6	17342.8	16841.0	16614.9	16521.2	16457.7	15283.2	14792.4
32.5°	20361.9	20163.4	19708.5	18828.9	18101.0	17715.0	17403.5	17177.4	16179.3	15688.5
35°	21690.9	21506.2	20985.1	20025.6	19234.2	18823.4	18415.4	17932.8	17111.2	16614.9
37.5°	22904.1	22719.3	22005.2	21007.1	20210.3	19926.3	19562.4	18743.5	18045.9	17577.2
40°	23670.6	23629.2	22962.0	21831.5	21004.4	20863.8	20742.4	19683.7	19082.6	18647.0
42.5°	23866.3	23957.3	23428.0	22498.8	21710.2	21597.2	21881.2	20747.9	20246.1	19829.8
45°	23394.9	23656.8	23309.4	22678.0	22212.0	22151.4	22890.3	21911.5	21533.8	21153.3
47.5°	22201.0	22644.9	22501.5	22413.3	22347.1	22609.1	23778.1	23146.7	22992.3	22661.4
50°	19791.2	20632.1	20883.1	21440.0	22079.7	22964.7	24586.0	24495.0	24696.3	24362.6
52.5°	15625.1	16783.1	18238.9	19634.0	21258.0	22846.2	25473.8	26430.5	27279.8	27097.8
55°	12898.2	13419.3	14538.7	17097.4	19664.4	22347.1	25873.6	27993.9	29844.0	29681.3
57.5°	10802.7	11268.7	11958.0	14094.8	17254.6	21213.9	26121.7	28947.9	31600.3	31583.8
60°	8555.6	9049.1	9755.0	11268.7	14439.5	19256.3	26066.6	30034.2	33841.9	33979.8
62.5°	6019.0	6562.1	7345.2	8756.9	11563.7	16719.7	24941.7	30820.0	36480.5	36855.5
65°	3956.6	4315.0	4905.1	6123.7	8616.3	13457.9	22793.8	30922.0	39303.9	39938.1
67.5°	2773.7	2911.6	3259.0	3920.7	5679.8	10320.2	19372.1	29866.0	41187.1	41901.2
70°	2164.4	2233.3	2409.8	2674.5	3567.8	6939.9	14844.8	27119.8	40784.5	41529.0
72.5°	1869.4	1935.6	2001.7	2034.8	2393.3	4284.7	10055.5	22675.2	36993.4	37498.0
75°	1695.7	1712.2	1767.4	1756.3	1825.3	2779.3	5803.9	16521.2	29187.7	29014.0
77.5°	1425.5	1447.5	1538.5	1524.7	1621.2	1899.7	3013.6	10662.1	18922.7	17742.6
80°	1207.7	1218.7	1317.9	1301.4	1408.9	1375.8	1538.5	5434.4	8026.2	6799.3
82.5°	419.1	518.4	1006.4	1036.7	1075.3	832.7	887.8	2216.8	2451.2	1877.7
85°	204.0	217.8	512.8	727.9	725.1	419.1	432.9	791.3	772.0	606.6
87.5°	33.1	41.4	60.7	284.0	226.1	110.3	148.9	154.4	159.9	137.9
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°
6267.1	0°	6267.1	6267.1	6267.1	6267.1	6267.1	6267.1	6267.1	6267.1	6267.1	6267.1
6490.5	2.5°	6336.1	6198.2	5908.7	5641.2	5431.7	5230.4	5117.4	5020.9	4965.7	4954.7
6793.7	5°	6507.0	6223.0	5696.4	5252.5	4963.0	4747.9	4634.9	4563.2	4527.3	4505.3
7201.8	7.5°	6752.4	6336.1	5586.1	5081.5	4778.2	4623.8	4565.9	4554.9	4552.1	4554.9
7695.4	10°	7091.5	6520.8	5575.1	5040.2	4786.5	4701.0	4698.3	4701.0	4712.1	4714.8
8233.0	12.5°	7458.2	6711.0	5619.2	5076.0	4891.3	4844.4	4836.1	4833.4	4841.6	4847.2
8776.2	15°	7858.0	6961.9	5693.6	5153.2	5007.1	4957.5	4949.2	4932.6	4929.9	4927.1
9346.9	17.5°	8268.9	7210.1	5776.3	5235.9	5081.5	5012.6	4982.3	4943.7	4913.3	4905.1
9937.0	20°	8685.2	7455.5	5834.2	5277.3	5087.0	4990.5	4929.9	4863.7	4811.3	4781.0
10532.5	22.5°	9129.1	7711.9	5870.1	5266.3	5037.4	4905.1	4794.8	4717.6	4637.6	4585.2
11133.6	25°	9562.0	7935.2	5867.3	5208.4	4940.9	4772.7	4632.1	4532.8	4422.6	4367.4
11754.0	27.5°	9978.3	8136.5	5798.4	5106.3	4803.0	4615.6	4447.4	4328.8	4221.3	4168.9
12379.8	30°	10408.4	8304.7	5690.9	4957.5	4640.4	4433.6	4248.8	4146.8	4050.3	4000.7
13041.6	32.5°	10835.8	8459.1	5539.2	4772.7	4452.9	4254.4	4072.4	3978.6	3920.7	3920.7
13752.9	35°	11288.0	8566.6	5337.9	4557.7	4254.4	4064.1	3920.7	3865.6	3860.1	3827.0
14505.6	37.5°	11765.0	8635.6	5092.6	4337.1	4058.6	3879.4	3835.3	3769.1	3714.0	3642.3
15332.8	40°	12266.8	8704.5	4797.5	4108.2	3851.8	3752.6	3733.3	3645.0	3487.9	3311.4
16270.3	42.5°	12876.1	8751.4	4491.5	3879.4	3634.0	3600.9	3628.5	3476.8	3225.9	3093.6
17400.7	45°	13582.0	8828.6	4210.2	3653.3	3410.7	3410.7	3526.5	3327.9	3121.2	3038.4
18691.1	47.5°	14497.4	9007.8	3948.3	3405.1	3203.9	3259.0	3300.4	3148.7	3032.9	2930.9
20262.7	50°	15820.8	9437.9	3678.1	3154.2	3046.7	3157.0	3099.1	3010.9	2875.8	2793.0
22760.7	52.5°	17464.1	9691.6	3438.2	2928.1	2911.6	3021.9	2939.2	2856.5	2754.4	2644.2
24654.9	55°	18583.5	9738.4	3237.0	2762.7	2820.6	2809.6	2779.3	2704.8	2649.7	2503.5
26524.3	57.5°	19835.3	9832.2	3071.5	2663.5	2762.7	2641.4	2630.4	2567.0	2495.3	2396.0
28804.5	60°	21332.5	9978.3	2928.1	2624.9	2713.1	2531.1	2476.0	2451.2	2379.5	2329.8
31547.9	62.5°	22964.7	10110.7	2782.0	2630.4	2655.2	2423.6	2340.9	2332.6	2288.5	2271.9
34123.1	65°	24078.7	9749.5	2600.0	2624.9	2564.2	2313.3	2208.5	2205.8	2169.9	2164.4
35239.8	67.5°	23689.9	8605.2	2354.7	2547.7	2470.5	2203.0	2087.2	2076.2	2029.3	2032.1
34073.5	70°	21743.3	6973.0	2015.5	2357.4	2354.7	2103.7	1960.4	1924.5	1861.1	1872.1
29626.1	72.5°	18092.8	5167.0	1560.6	2040.3	2169.9	2012.8	1814.2	1756.3	1676.4	1687.4
21870.1	75°	13066.4	3512.7	1136.0	1552.3	1888.7	1905.2	1670.9	1571.6	1475.1	1491.6
12173.0	77.5°	6686.2	1990.7	835.4	1069.8	1483.4	1731.5	1541.3	1408.9	1386.9	1541.3
3509.9	80°	2180.9	998.1	579.0	750.0	973.3	1417.2	1351.0	1199.4	1193.9	1229.7
736.2	82.5°	650.7	421.9	372.2	493.5	537.7	1086.3	1166.3	907.1	780.3	821.6
245.4	85°	223.3	204.0	212.3	245.4	256.4	636.9	816.1	601.1	568.0	625.9
55.1	87.5°	52.4	71.7	60.7	55.1	55.1	154.4	317.1	250.9	347.4	231.6
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

180°  
6267.1  
4954.7  
4502.5  
4563.2  
4717.6  
4849.9  
4924.4  
4913.3  
4792.0  
4588.0  
4367.4  
4166.1  
3997.9  
3923.5  
3818.7  
3631.2  
3286.6  
3096.3  
3052.2  
2928.1  
2784.8  
2622.1  
2506.3  
2362.9  
2343.6  
2271.9  
2161.6  
2032.1  
1883.2  
1684.7  
1497.2  
1519.2  
1056.0  
849.2  
617.6  
223.3  
0.0

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