

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: P942559

Luminaire Tested: **GALN-SB6C-840-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942559  
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-SB6C-840-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

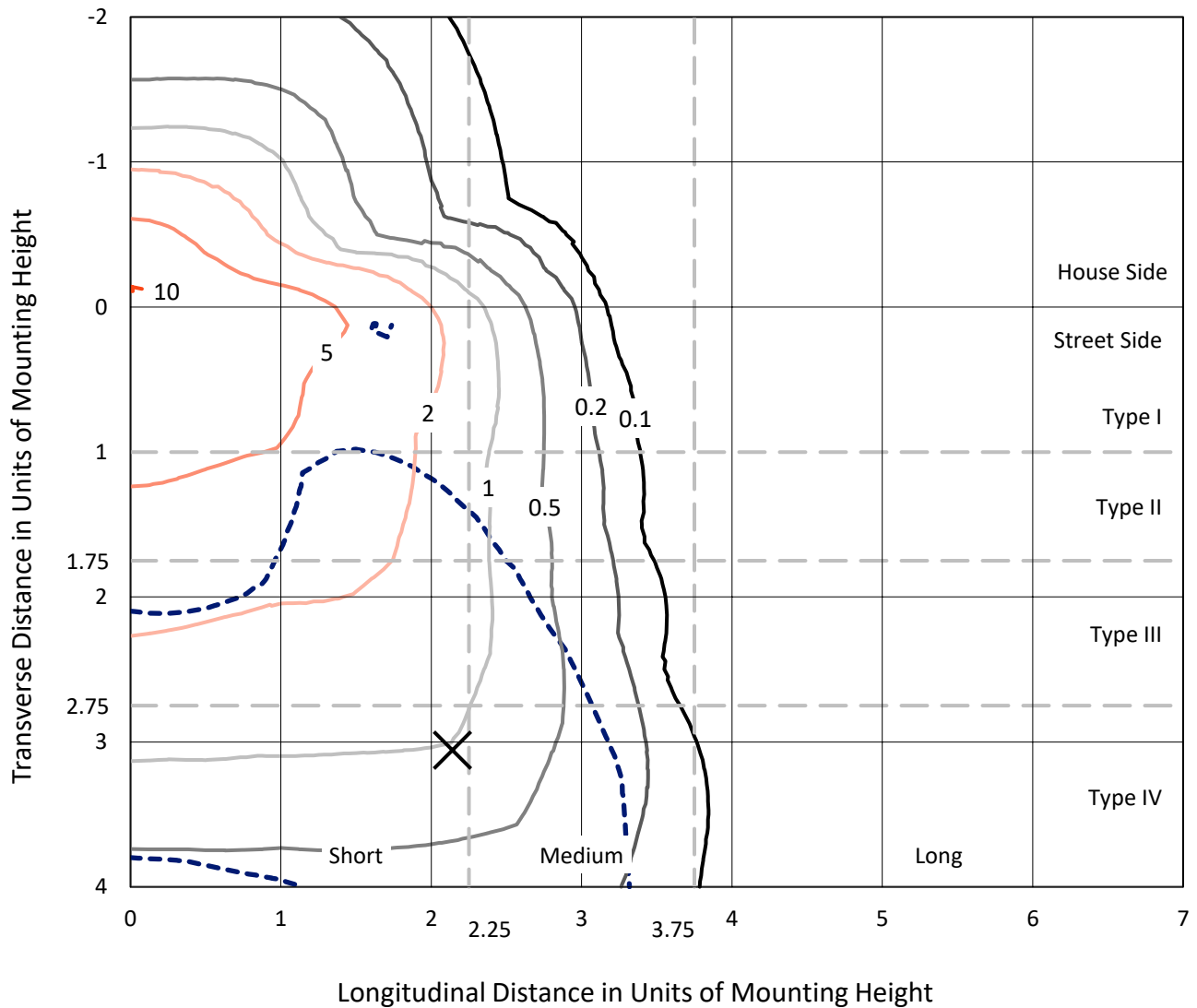
Lumens per Lamp: N/A  
Luminaire Lumens: 42935 lumens  
Efficiency: N/A  
Efficacy: 142.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

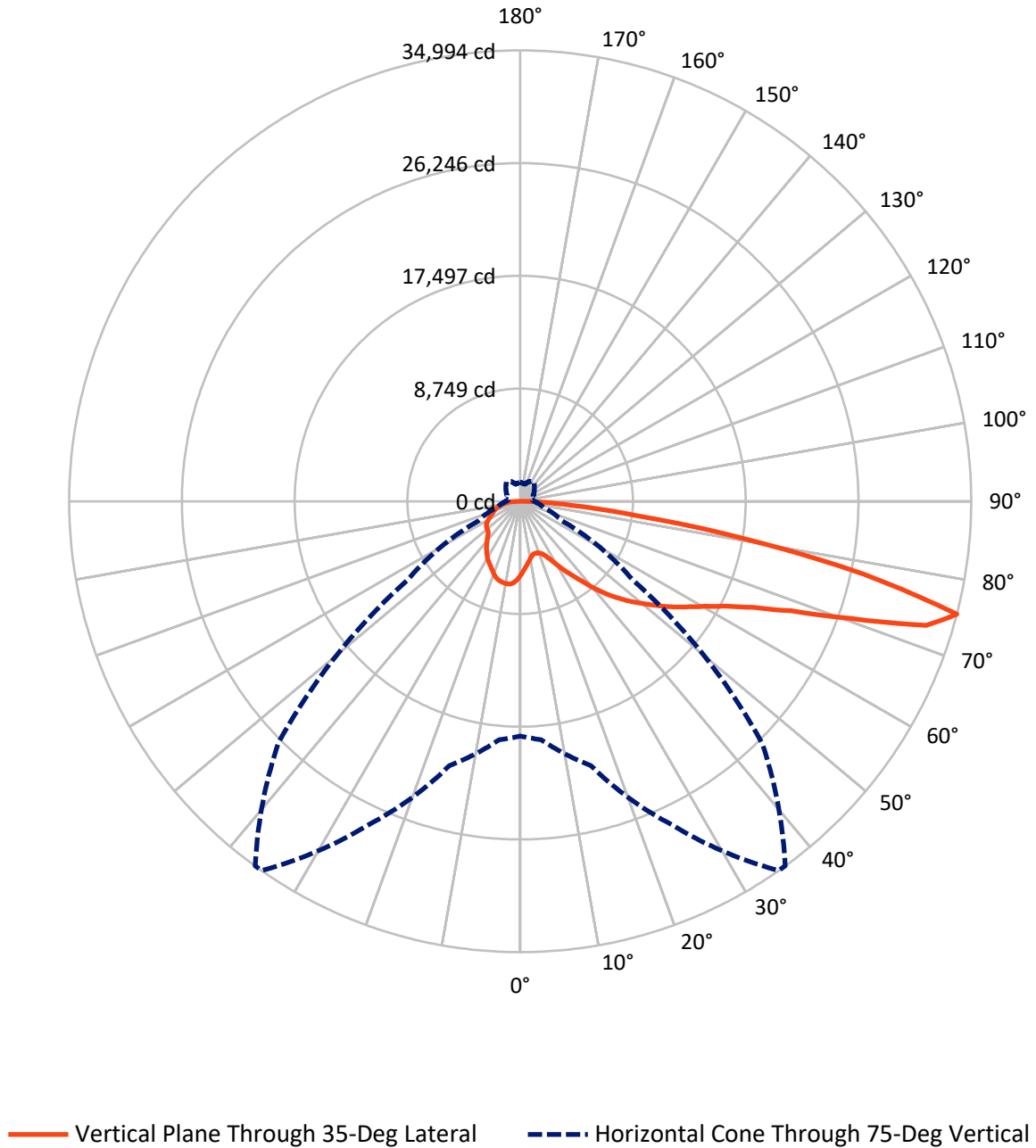
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10217.5	0.0	10217.5
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	32717.6	0.0	32717.6
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	42935.0	0.0	42935.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	541.7	1.3
10°-20°	1562.5	3.6
20°-30°	2623.8	6.1
30°-40°	4077.8	9.5
40°-50°	6052.6	14.1
50°-60°	8355.9	19.5
60°-70°	10137.6	23.6
70°-80°	8378.0	19.5
80°-90°	1205.0	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°	42935.0	100.0
0°-180°	42935.0	100.0

**Coefficient of Utilization**



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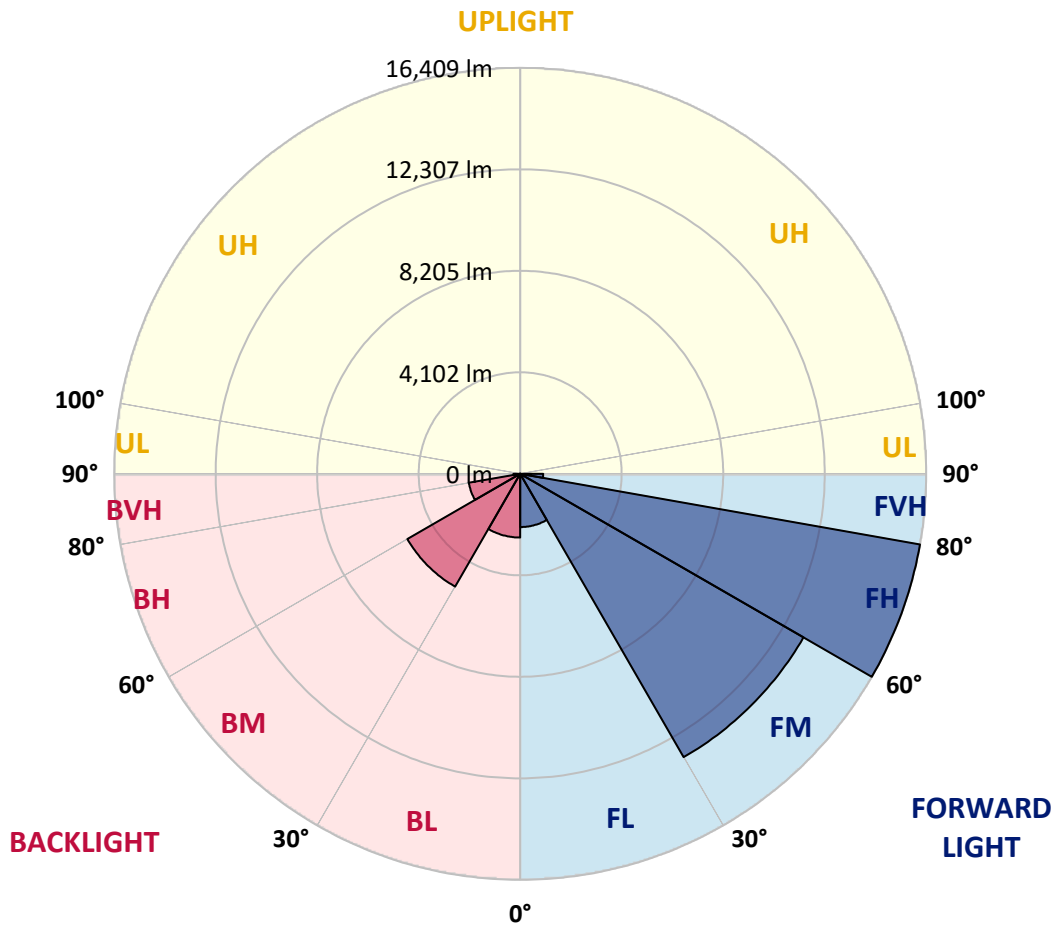
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2153.1	5.0			
FM (30°-60°)	13221.7	30.8			
FH (60°-80°)	16409.1	38.2			G5
FVH (80°-90°)	933.7	2.2			G5
BL (0°-30°)	2574.9	6.0	B4/5000		
BM (30°-60°)	5264.7	12.3	B4/8500		
BH (60°-80°)	2106.5	4.9	B3/2500		G3/2500
BVH (80°-90°)	271.3	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°	5721.4	5721.4	5721.4	5721.4	5721.4	5721.4	5721.4	5721.4	5721.4	5721.4
2.5°	5275.7	5308.2	5322.2	5315.2	5350.0	5345.4	5394.1	5454.5	5538.0	5619.3
5°	4869.6	4904.4	4934.5	4962.4	5029.7	5050.6	5127.2	5243.2	5396.4	5551.9
7.5°	4491.2	4521.4	4567.8	4618.9	4732.6	4753.5	4881.2	5062.2	5275.7	5503.2
10°	4182.5	4212.7	4261.4	4319.5	4461.1	4486.6	4649.1	4890.4	5169.0	5456.8
12.5°	4050.2	4059.5	4087.4	4145.4	4268.4	4284.7	4463.4	4739.6	5064.5	5422.0
15°	4043.3	4061.8	4064.2	4094.3	4196.5	4203.4	4368.2	4642.1	4999.5	5415.0
17.5°	4112.9	4126.8	4105.9	4124.5	4210.4	4222.0	4352.0	4595.7	4978.6	5445.2
20°	4298.6	4310.2	4247.5	4222.0	4284.7	4293.9	4421.6	4625.8	4999.5	5507.8
22.5°	4693.2	4700.1	4546.9	4442.5	4447.1	4451.8	4563.2	4748.9	5080.8	5621.6
25°	5308.2	5303.6	5059.9	4857.9	4741.9	4716.4	4790.6	4948.5	5217.7	5772.4
27.5°	6027.8	5992.9	5749.2	5447.5	5194.5	5157.4	5141.1	5208.4	5412.7	5972.1
30°	6840.1	6807.6	6545.4	6150.8	5800.3	5739.9	5586.8	5551.9	5702.8	6243.6
32.5°	7731.4	7710.5	7397.2	6919.0	6450.2	6380.6	6122.9	6030.1	6148.5	6654.4
35°	8478.8	8460.2	8200.3	7708.2	7134.9	7049.0	6786.7	6682.3	6742.6	7181.3
37.5°	9154.2	9144.9	8922.1	8534.5	7942.6	7838.2	7543.4	7508.6	7497.0	7875.3
40°	9780.9	9757.7	9525.6	9321.3	8882.6	8787.5	8527.5	8497.4	8409.2	8729.5
42.5°	10474.9	10414.5	10078.0	9982.8	9864.4	9785.5	9630.0	9634.7	9439.7	9692.7
45°	11041.2	11006.4	10660.6	10604.9	10732.5	10700.0	10834.6	10869.5	10491.1	10702.3
47.5°	11649.3	11616.8	11324.4	11284.9	11630.8	11640.0	12115.9	12127.5	11517.0	11751.5
50°	12399.0	12352.6	12062.5	12111.2	12498.8	12533.7	13404.0	13325.1	12461.7	12816.8
52.5°	12893.4	12921.3	12858.6	12937.5	13466.7	13499.2	14671.3	14469.4	13397.1	13868.3
55°	13257.8	13313.5	13508.5	13689.5	14488.0	14520.5	15866.7	15558.0	14172.3	14843.1
57.5°	13726.7	13647.8	14012.2	14365.0	15458.2	15544.0	17029.5	16607.1	14859.3	15683.3
60°	14399.8	14344.1	14627.2	15149.5	16544.4	16681.4	18259.7	17551.8	15363.0	16349.5
62.5°	15764.5	15625.3	15669.4	16131.3	17913.8	18094.9	19647.7	18375.7	15613.7	16609.4
65°	17804.7	17565.7	17342.9	17663.2	19842.6	20021.3	21214.4	19023.3	15520.8	16105.7
67.5°	20374.1	20137.4	19863.5	20165.3	22683.6	22825.2	23147.8	19387.7	14789.7	14165.3
70°	22493.3	22405.1	22732.3	23974.1	27221.2	27225.9	25626.7	19086.0	12786.6	10043.2
72.5°	22212.4	22159.0	23883.6	27722.6	32940.3	32817.3	27973.3	16802.1	8613.4	4530.7
75°	18222.5	18568.4	21239.9	27655.3	34994.4	34978.2	26536.5	10681.5	3562.8	1877.7
77.5°	9771.6	10319.4	13789.3	20418.2	27318.7	27729.5	18656.6	3736.9	1529.6	1202.3
80°	3186.8	3664.9	5496.2	10396.0	17751.4	17674.8	7996.0	1466.9	1046.8	851.8
82.5°	1353.2	1408.9	2455.7	4909.0	9110.1	8968.5	2546.2	842.5	735.8	582.6
85°	529.2	591.9	1083.9	2270.0	3945.8	3859.9	919.1	417.8	471.2	380.7
87.5°	174.1	211.2	387.6	777.6	1227.8	1183.7	225.1	143.9	204.3	174.1
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°
5721.4	0°	5721.4	5721.4	5721.4	5721.4	5721.4	5721.4	5721.4	5721.4	5721.4	5721.4
5737.6	2.5°	5770.1	5807.3	5851.4	5916.3	5972.1	6018.5	6067.2	6097.4	6109.0	6143.8
5746.9	5°	5811.9	5893.1	6002.2	6109.0	6213.4	6276.1	6331.8	6359.7	6385.2	6403.8
5772.4	7.5°	5881.5	5986.0	6157.7	6297.0	6385.2	6436.3	6473.4	6464.1	6473.4	6478.0
5800.3	10°	5941.9	6088.1	6292.4	6424.7	6492.0	6494.3	6485.0	6452.5	6436.3	6438.6
5842.1	12.5°	6013.8	6176.3	6396.8	6508.2	6526.8	6475.7	6436.3	6380.6	6359.7	6350.4
5904.7	15°	6111.3	6297.0	6510.5	6552.3	6505.9	6440.9	6373.6	6283.1	6236.7	6199.5
6011.5	17.5°	6229.7	6433.9	6598.7	6568.6	6468.8	6362.0	6252.9	6116.0	6020.8	5981.3
6157.7	20°	6394.5	6577.8	6666.0	6533.7	6382.9	6220.4	6034.7	5867.6	5779.4	5739.9
6343.4	22.5°	6594.1	6770.5	6731.0	6473.4	6259.9	5999.9	5767.8	5644.8	5600.7	5572.8
6582.5	25°	6833.2	6984.0	6777.5	6385.2	6057.9	5707.5	5528.7	5489.3	5468.4	5447.5
6874.9	27.5°	7144.2	7225.4	6812.3	6255.2	5742.3	5396.4	5331.4	5338.4	5331.4	5296.6
7281.1	30°	7555.0	7538.8	6844.8	6044.0	5380.2	5115.6	5120.2	5150.4	5155.0	5131.8
7847.5	32.5°	8095.8	7931.0	6861.0	5770.1	5034.3	4869.6	4874.2	4906.7	4929.9	4890.4
8587.9	35°	8750.3	8388.3	6835.5	5426.6	4767.4	4635.1	4600.3	4609.6	4616.6	4579.4
9486.1	37.5°	9514.0	8901.2	6721.8	5046.0	4546.9	4405.3	4331.1	4268.4	4231.3	4196.5
10502.7	40°	10351.9	9460.6	6512.9	4674.6	4300.9	4161.6	4050.2	3931.9	3806.5	3760.1
11579.7	42.5°	11229.2	10036.2	6259.9	4319.5	4017.7	3904.0	3785.6	3613.9	3425.9	3330.7
12698.4	45°	12139.1	10625.8	6011.5	3969.0	3727.6	3678.9	3541.9	3335.3	3131.1	3010.4
13819.5	47.5°	13030.4	11182.8	5647.1	3616.2	3456.0	3509.4	3402.7	3212.3	2984.9	2794.5
14931.3	50°	13882.2	11705.0	5050.6	3258.7	3235.5	3458.4	3356.2	3082.3	2822.4	2578.7
16022.2	52.5°	14727.0	12127.5	4287.0	2933.8	3117.2	3444.4	3295.9	2994.1	2676.2	2420.9
17048.1	55°	15444.2	12345.6	3551.2	2655.3	2945.4	3326.1	3223.9	2889.7	2469.6	2198.0
17751.4	57.5°	15852.7	12169.2	2938.4	2381.4	2708.7	3131.1	3100.9	2666.9	2223.6	2014.7
17888.3	60°	15676.3	11454.4	2437.1	2142.3	2483.5	2919.9	2887.4	2446.4	2035.6	1838.3
17154.9	62.5°	14703.8	10091.9	2040.2	1933.4	2279.3	2704.0	2673.8	2276.9	1891.7	1701.3
15207.5	65°	12744.9	8209.5	1731.5	1759.4	2072.7	2444.1	2488.2	2135.4	1777.9	1592.2
11765.4	67.5°	9720.5	5946.5	1490.1	1608.5	1870.8	2188.7	2316.4	2033.2	1682.8	1506.4
6807.6	70°	5540.3	3377.1	1285.9	1462.3	1692.0	1952.0	2184.1	1952.0	1580.6	1434.4
2550.8	72.5°	2100.5	1550.5	1111.8	1316.0	1520.3	1752.4	2037.9	1824.3	1462.3	1353.2
1318.4	75°	1121.1	944.7	935.4	1144.3	1323.0	1557.4	1854.5	1699.0	1374.1	1429.8
912.2	77.5°	763.6	668.5	782.2	979.5	1107.1	1341.6	1659.5	1508.7	1190.7	1186.1
631.3	80°	529.2	473.5	636.0	789.2	856.5	1128.0	1448.3	1295.1	970.2	905.2
389.9	82.5°	318.0	308.7	475.8	589.5	605.8	870.4	1200.0	1086.2	793.8	691.7
232.1	85°	174.1	183.4	304.1	345.8	352.8	608.1	940.0	840.2	610.4	513.0
83.6	87.5°	48.7	62.7	111.4	136.9	169.4	315.7	559.4	499.0	306.4	213.5
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>
5721.4
6141.5
6408.4
6485.0
6443.2
6345.7
6211.1
5983.7
5735.3
5577.5
5447.5
5303.6
5143.4
4909.0
4605.0
4219.7
3781.0
3342.3
3001.1
2773.7
2557.8
2393.0
2174.8
1986.8
1810.4
1671.2
1562.1
1478.5
1415.8
1334.6
1476.2
1093.2
865.8
696.3
517.6
213.5
0.0

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