

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: P941309

Luminaire Tested: **GALN-SB4D-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941309
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-SB4D-740-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42646 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

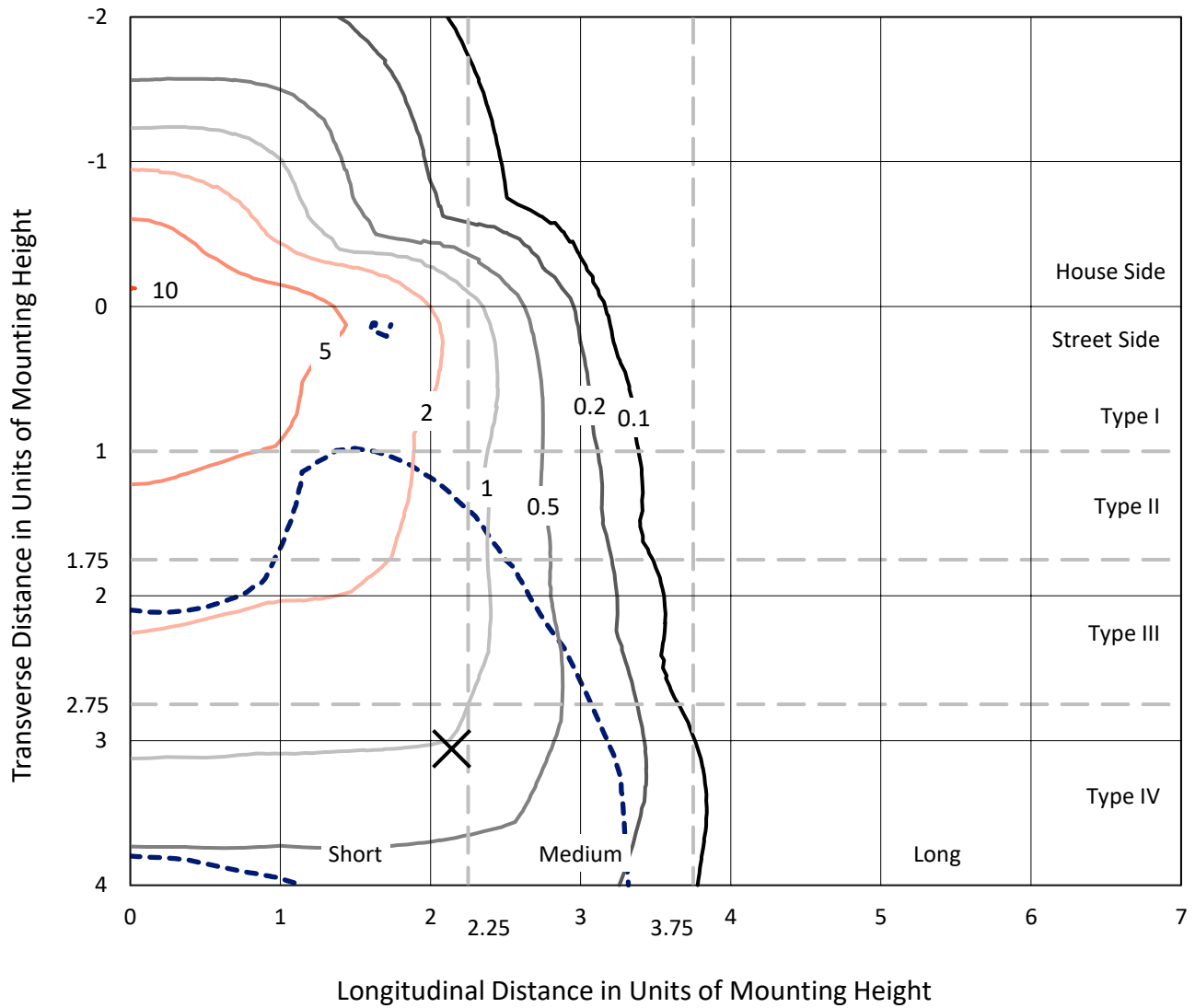
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

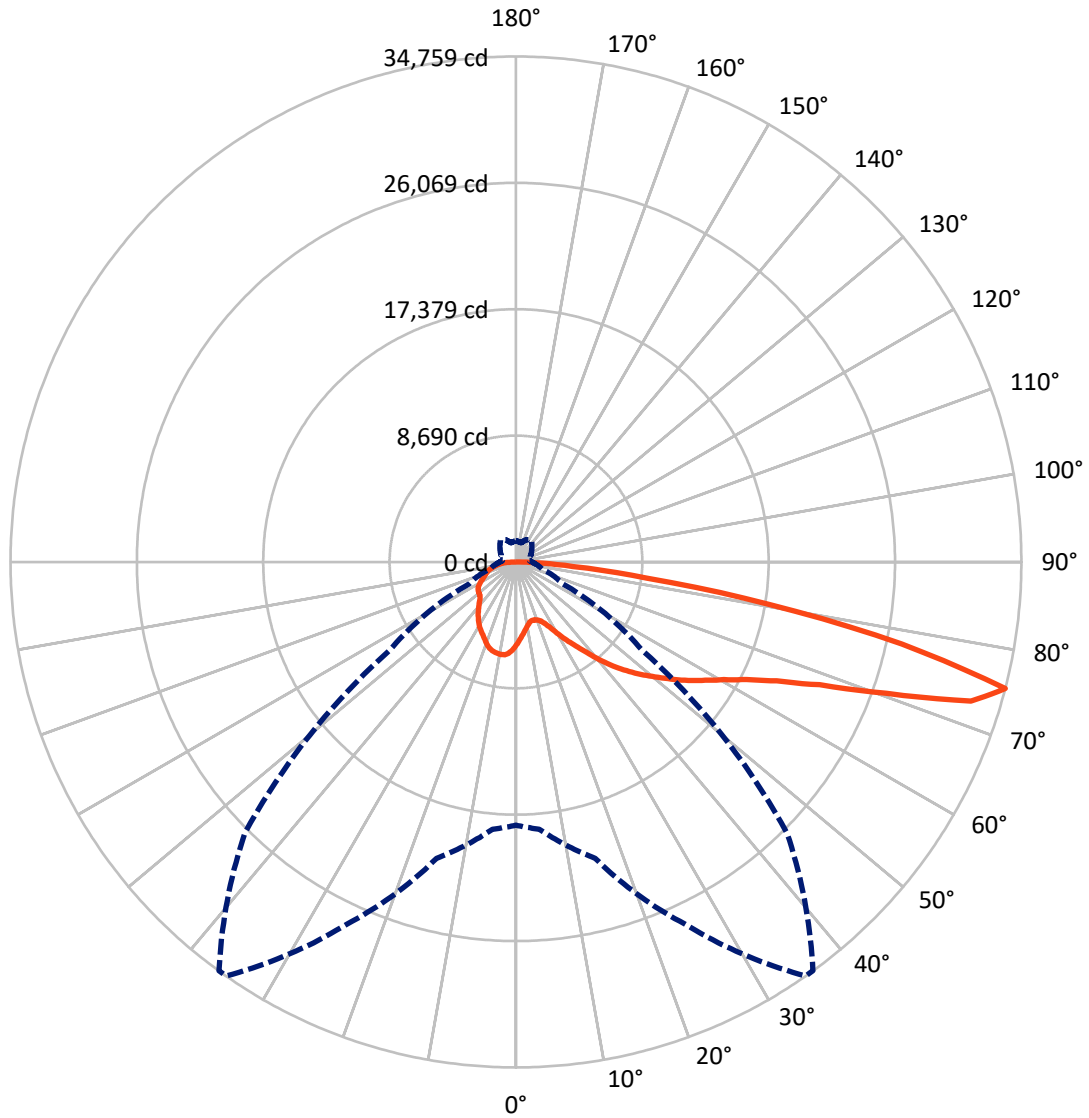
× Max cd
 - - - 1/2 Max cd



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



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10148.7	0.0	10148.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	32497.3	0.0	32497.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	42646.0	0.0	42646.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.1	1.3
10°-20°	1552.0	3.6
20°-30°	2606.2	6.1
30°-40°	4050.4	9.5
40°-50°	6011.8	14.1
50°-60°	8299.7	19.5
60°-70°	10069.4	23.6
70°-80°	8321.6	19.5
80°-90°	1196.9	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°	42646.0	100.0
0°-180°	42646.0	100.0

Coefficient of Utilization



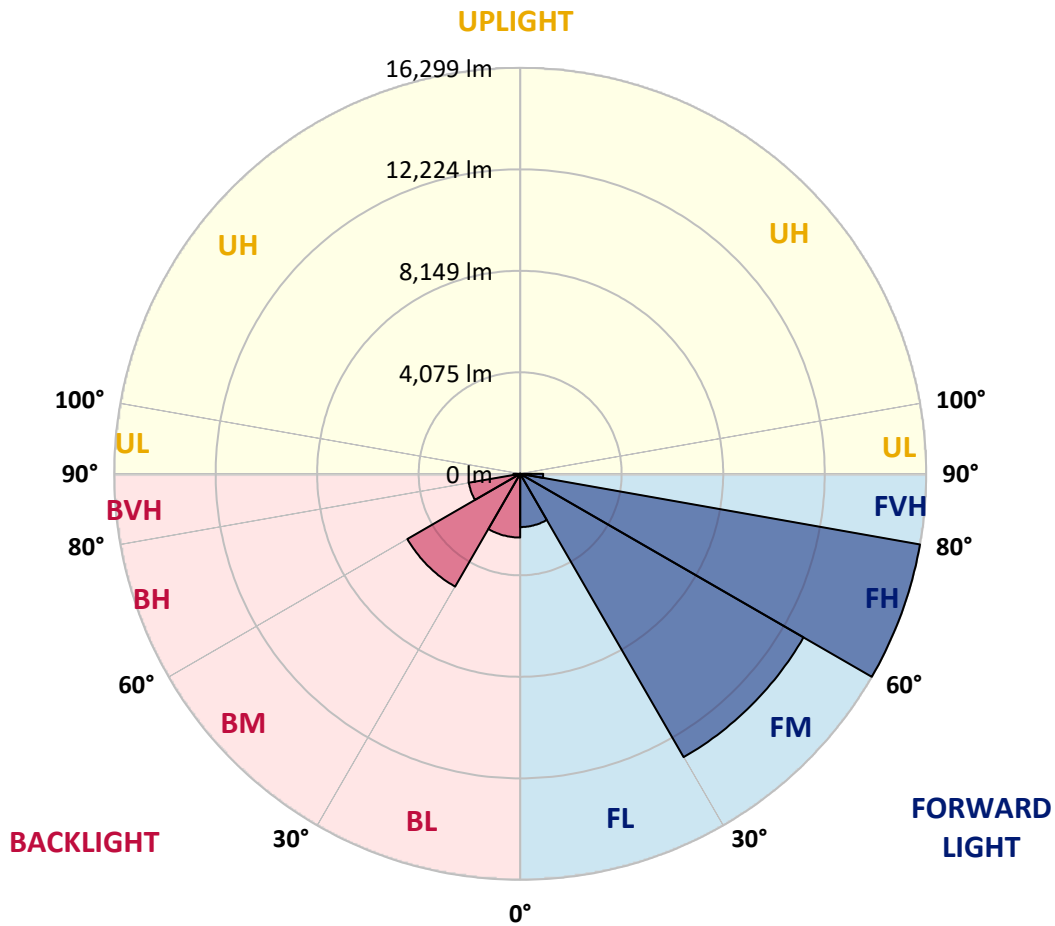
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2138.6	5.0			
FM (30°-60°)	13132.7	30.8			
FH (60°-80°)	16298.7	38.2			G5
FVH (80°-90°)	927.4	2.2			G5
BL (0°-30°)	2557.6	6.0	B4/5000		
BM (30°-60°)	5229.2	12.3	B4/8500		
BH (60°-80°)	2092.3	4.9	B3/2500		G3/2500
BVH (80°-90°)	269.5	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°	5682.9	5682.9	5682.9	5682.9	5682.9	5682.9	5682.9	5682.9	5682.9	5682.9
2.5°	5240.2	5272.5	5286.3	5279.4	5314.0	5309.4	5357.8	5417.7	5500.7	5581.4
5°	4836.8	4871.4	4901.3	4929.0	4995.9	5016.6	5092.7	5208.0	5360.1	5514.6
7.5°	4461.0	4491.0	4537.1	4587.8	4700.8	4721.5	4848.3	5028.1	5240.2	5466.2
10°	4154.4	4184.3	4232.8	4290.4	4431.0	4456.4	4617.8	4857.5	5134.2	5420.0
12.5°	4023.0	4032.2	4059.9	4117.5	4239.7	4255.8	4433.3	4707.7	5030.4	5385.5
15°	4016.0	4034.5	4036.8	4066.8	4168.2	4175.1	4338.8	4610.8	4965.9	5378.6
17.5°	4085.2	4099.0	4078.3	4096.7	4182.0	4193.6	4322.7	4564.7	4945.1	5408.5
20°	4269.6	4281.2	4218.9	4193.6	4255.8	4265.0	4391.8	4594.7	4965.9	5470.8
22.5°	4661.6	4668.5	4516.3	4412.6	4417.2	4421.8	4532.5	4716.9	5046.6	5583.7
25°	5272.5	5267.9	5025.8	4825.3	4710.0	4684.6	4758.4	4915.2	5182.6	5733.6
27.5°	5987.2	5952.6	5710.5	5410.8	5159.5	5122.7	5106.5	5173.4	5376.2	5931.9
30°	6794.1	6761.8	6501.3	6109.4	5761.3	5701.3	5549.2	5514.6	5664.4	6201.6
32.5°	7679.4	7658.6	7347.4	6872.5	6406.8	6337.6	6081.7	5989.5	6107.1	6609.6
35°	8421.7	8403.3	8145.1	7656.3	7086.9	7001.6	6741.1	6637.3	6697.3	7133.0
37.5°	9092.6	9083.4	8862.0	8477.0	7889.2	7785.4	7492.6	7458.0	7446.5	7822.3
40°	9715.1	9692.0	9461.5	9258.6	8822.9	8728.3	8470.1	8440.2	8352.5	8670.7
42.5°	10404.4	10344.4	10010.1	9915.6	9798.0	9719.7	9565.2	9569.8	9376.2	9627.4
45°	10966.9	10932.3	10588.8	10533.5	10660.3	10628.0	10761.7	10796.3	10420.5	10630.3
47.5°	11570.9	11538.6	11248.2	11209.0	11552.5	11561.7	12034.3	12045.8	11439.5	11672.4
50°	12315.6	12269.5	11981.3	12029.7	12414.7	12449.3	13313.8	13235.4	12377.8	12730.5
52.5°	12806.6	12834.3	12772.0	12850.4	13376.1	13408.3	14572.6	14372.0	13306.9	13774.9
55°	13168.6	13223.9	13417.6	13597.4	14390.5	14422.7	15759.9	15453.3	14076.9	14743.2
57.5°	13634.3	13555.9	13917.8	14268.3	15354.1	15439.4	16914.9	16495.3	14759.3	15577.7
60°	14302.8	14247.5	14528.8	15047.5	16433.1	16569.1	18136.8	17433.6	15259.6	16239.4
62.5°	15658.4	15520.1	15563.9	16022.7	17793.3	17973.1	19515.4	18252.0	15508.6	16497.6
65°	17684.9	17447.4	17226.1	17544.3	19709.1	19886.6	21071.6	18895.2	15416.4	15997.3
67.5°	20237.0	20001.9	19729.8	20029.5	22530.9	22671.5	22992.0	19257.2	14690.2	14070.0
70°	22341.9	22254.2	22579.3	23812.7	27038.0	27042.6	25454.2	18957.5	12700.6	9975.6
72.5°	22062.9	22009.9	23722.8	27536.0	32718.6	32596.4	27785.0	16689.0	8555.4	4500.2
75°	18099.9	18443.4	21096.9	27469.1	34758.9	34742.7	26357.9	10609.6	3538.8	1865.1
77.5°	9705.8	10249.9	13696.5	20280.8	27134.8	27542.9	18531.0	3711.7	1519.3	1194.2
80°	3165.3	3640.3	5459.2	10326.0	17631.9	17555.8	7942.2	1457.0	1039.7	846.1
82.5°	1344.1	1399.4	2439.1	4876.0	9048.8	8908.2	2529.0	836.9	730.8	578.7
85°	525.6	587.9	1076.6	2254.7	3919.2	3833.9	912.9	415.0	468.0	378.1
87.5°	172.9	209.8	385.0	772.3	1219.6	1175.8	223.6	142.9	202.9	172.9
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°
5682.9	0°	5682.9	5682.9	5682.9	5682.9	5682.9	5682.9	5682.9	5682.9	5682.9	5682.9
5699.0	2.5°	5731.3	5768.2	5812.0	5876.5	5931.9	5978.0	6026.4	6056.3	6067.9	6102.5
5708.2	5°	5772.8	5853.5	5961.8	6067.9	6171.6	6233.9	6289.2	6316.9	6342.2	6360.7
5733.6	7.5°	5841.9	5945.7	6116.3	6254.6	6342.2	6392.9	6429.8	6420.6	6429.8	6434.4
5761.3	10°	5901.9	6047.1	6250.0	6381.4	6448.3	6450.6	6441.4	6409.1	6392.9	6395.2
5802.7	12.5°	5973.4	6134.7	6353.7	6464.4	6482.8	6432.1	6392.9	6337.6	6316.9	6307.6
5865.0	15°	6070.2	6254.6	6466.7	6508.2	6462.1	6397.5	6330.7	6240.8	6194.7	6157.8
5971.0	17.5°	6187.8	6390.6	6554.3	6524.3	6425.2	6319.2	6210.8	6074.8	5980.3	5941.1
6116.3	20°	6351.4	6533.6	6621.2	6489.8	6339.9	6178.5	5994.1	5828.1	5740.5	5701.3
6300.7	22.5°	6549.7	6724.9	6685.7	6429.8	6217.7	5959.5	5729.0	5606.8	5563.0	5535.3
6538.2	25°	6787.2	6937.0	6731.8	6342.2	6017.2	5669.0	5491.5	5452.3	5431.6	5410.8
6828.7	27.5°	7096.1	7176.8	6766.4	6213.1	5703.6	5360.1	5295.6	5302.5	5295.6	5261.0
7232.1	30°	7504.2	7488.0	6798.7	6003.3	5344.0	5081.2	5085.8	5115.7	5120.3	5097.3
7794.6	32.5°	8041.3	7877.6	6814.8	5731.3	5000.5	4836.8	4841.4	4873.7	4896.7	4857.5
8530.1	35°	8691.4	8331.8	6789.5	5390.1	4735.3	4603.9	4569.3	4578.6	4585.5	4548.6
9422.3	37.5°	9449.9	8841.3	6676.5	5012.0	4516.3	4375.7	4301.9	4239.7	4202.8	4168.2
10432.0	40°	10282.2	9396.9	6469.0	4643.1	4271.9	4133.6	4023.0	3905.4	3780.9	3734.8
11501.8	42.5°	11153.6	9968.6	6217.7	4290.4	3990.7	3877.7	3760.1	3589.5	3402.8	3308.3
12613.0	45°	12057.4	10554.2	5971.0	3942.3	3702.5	3654.1	3518.1	3312.9	3110.0	2990.1
13726.5	47.5°	12942.6	11107.5	5609.1	3591.8	3432.8	3485.8	3379.8	3190.7	2964.8	2775.7
14830.8	50°	13788.7	11626.2	5016.6	3236.8	3213.8	3435.1	3333.6	3061.6	2803.4	2561.3
15914.3	52.5°	14627.9	12045.8	4258.1	2914.1	3096.2	3421.2	3273.7	2974.0	2658.2	2404.6
16933.3	55°	15340.3	12262.5	3527.3	2637.4	2925.6	3303.7	3202.2	2870.3	2453.0	2183.2
17631.9	57.5°	15746.0	12087.3	2918.7	2365.4	2690.4	3110.0	3080.0	2648.9	2208.6	2001.1
17767.9	60°	15570.8	11377.3	2420.7	2127.9	2466.8	2900.2	2867.9	2429.9	2021.9	1825.9
17039.4	62.5°	14604.9	10024.0	2026.5	1920.4	2263.9	2685.8	2655.8	2261.6	1878.9	1689.9
15105.1	65°	12659.1	8154.3	1719.8	1747.5	2058.7	2427.6	2471.4	2121.0	1766.0	1581.5
11686.2	67.5°	9655.1	5906.5	1480.1	1597.7	1858.2	2174.0	2300.8	2019.6	1671.4	1496.2
6761.8	70°	5503.0	3354.4	1277.2	1452.4	1680.7	1938.9	2169.4	1938.9	1570.0	1424.8
2533.7	72.5°	2086.4	1540.0	1104.3	1307.2	1510.1	1740.6	2024.2	1812.1	1452.4	1344.1
1309.5	75°	1113.5	938.3	929.1	1136.6	1314.1	1546.9	1842.0	1687.6	1364.8	1420.1
906.0	77.5°	758.5	664.0	776.9	972.9	1099.7	1332.5	1648.4	1498.5	1182.7	1178.1
627.1	80°	525.6	470.3	631.7	783.8	850.7	1120.4	1438.6	1286.4	963.7	899.1
387.3	82.5°	315.8	306.6	472.6	585.6	601.7	864.5	1191.9	1078.9	788.5	687.0
230.5	85°	172.9	182.1	302.0	343.5	350.4	604.0	933.7	834.6	606.3	509.5
83.0	87.5°	48.4	62.2	110.7	136.0	168.3	313.5	555.6	495.7	304.3	212.1
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>
5682.9
6100.1
6365.3
6441.4
6399.9
6303.0
6169.3
5943.4
5696.7
5539.9
5410.8
5267.9
5108.8
4876.0
4574.0
4191.3
3755.5
3319.8
2980.9
2755.0
2540.6
2376.9
2160.2
1973.4
1798.2
1659.9
1551.5
1468.6
1406.3
1325.6
1466.2
1085.9
859.9
691.6
514.1
212.1
0.0

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