

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: P950331

Luminaire Tested: **GALN-SB4D-760-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-760-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43063 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

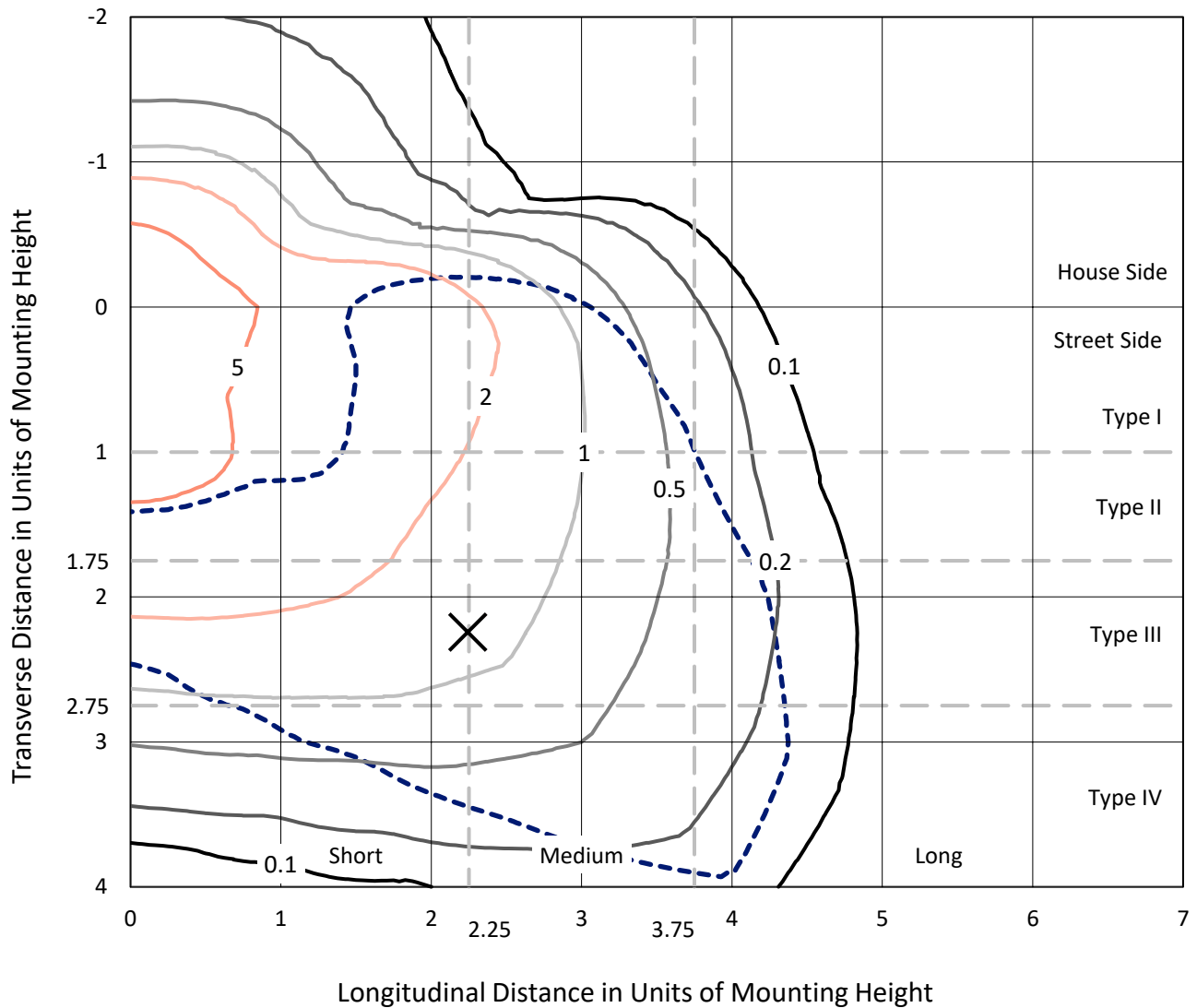
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

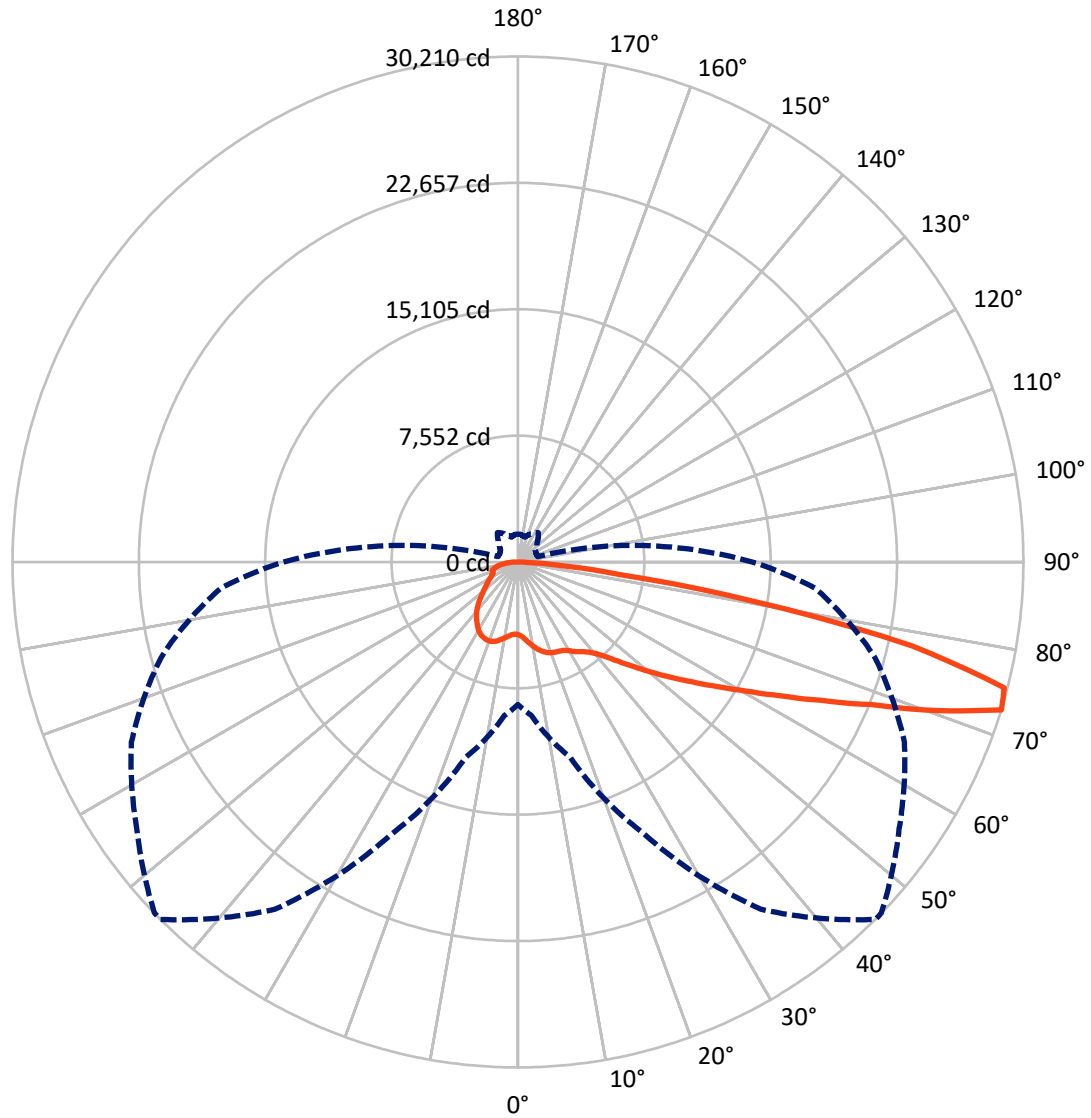
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9735.1	0.0	9735.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	33327.9	0.0	33327.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	43063.0	0.0	43063.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.2	1.0
10°-20°	1474.2	3.4
20°-30°	2564.5	6.0
30°-40°	3676.3	8.5
40°-50°	5176.4	12.0
50°-60°	7928.8	18.4
60°-70°	11486.0	26.7
70°-80°	9172.3	21.3
80°-90°	1142.4	2.7
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°	43063.0	100.0
0°-180°	43063.0	100.0



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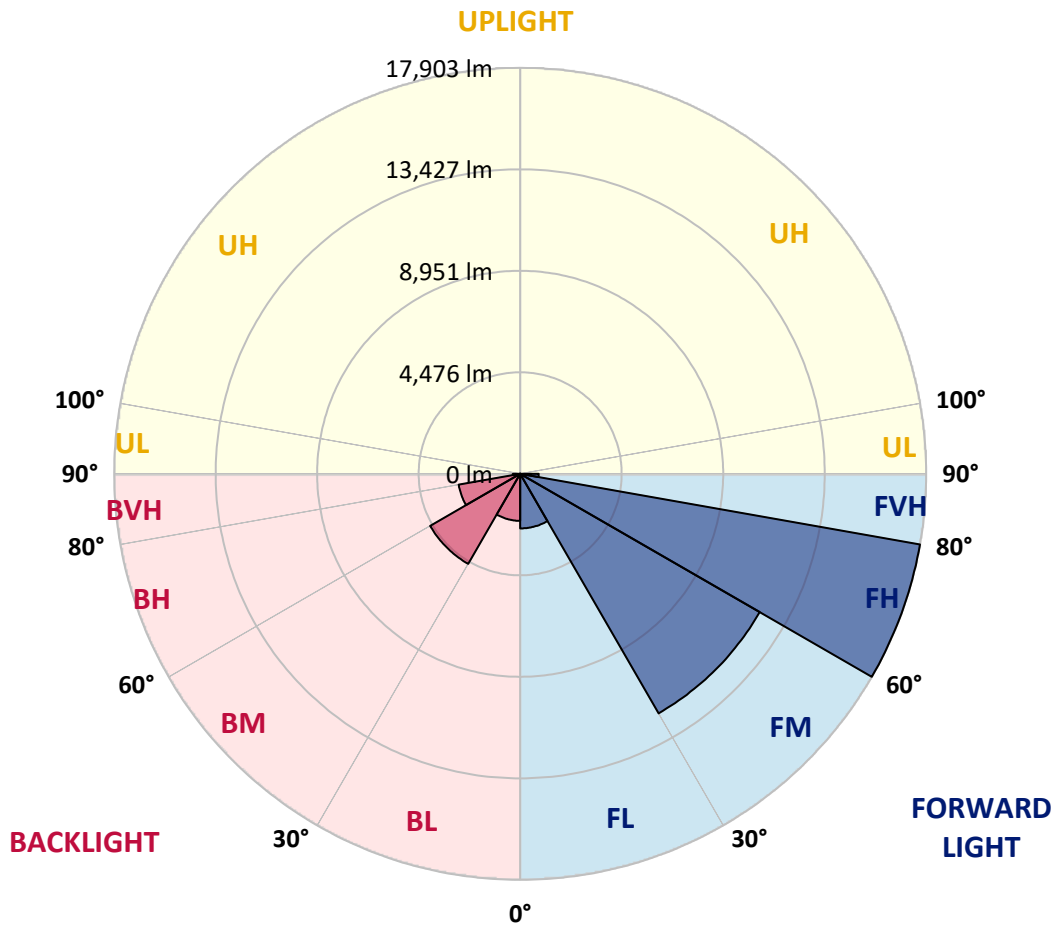
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2408.1	5.6			
FM (30°-60°)	12197.7	28.3			
FH (60°-80°)	17902.6	41.6			G5
FVH (80°-90°)	819.6	1.9			G5
BL (0°-30°)	2072.7	4.8	B3/2500		
BM (30°-60°)	4583.8	10.6	B3/5000		
BH (60°-80°)	2755.7	6.4	B4/5000		G4/5000
BVH (80°-90°)	322.8	0.7			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°	45°	46°	55°	65°	75°
0°	4344.2	4344.2	4344.2	4344.2	4344.2	4344.2	4344.2	4344.2	4344.2	4344.2
2.5°	4514.4	4543.8	4516.6	4491.7	4480.3	4450.8	4448.6	4430.4	4419.1	4387.3
5°	4829.7	4868.2	4822.9	4773.0	4727.6	4655.0	4645.9	4593.8	4534.8	4466.7
7.5°	5185.8	5219.9	5167.7	5092.8	5013.4	4893.2	4890.9	4795.7	4702.6	4587.0
10°	5496.6	5542.0	5471.7	5369.6	5269.8	5133.7	5117.8	5008.9	4890.9	4741.2
12.5°	5771.1	5802.9	5734.8	5610.1	5494.4	5358.2	5337.8	5217.6	5086.0	4915.9
15°	5988.9	6029.7	5939.0	5805.1	5682.6	5548.8	5530.7	5421.8	5290.2	5111.0
17.5°	6131.8	6165.8	6072.8	5923.1	5805.1	5694.0	5680.4	5589.6	5473.9	5292.5
20°	6186.3	6222.6	6125.0	5973.0	5864.1	5777.9	5771.1	5705.3	5625.9	5460.3
22.5°	6240.7	6274.7	6147.7	5988.9	5893.6	5839.2	5836.9	5793.8	5762.0	5625.9
25°	6460.7	6469.8	6299.7	6070.6	5934.5	5886.8	5884.5	5882.3	5895.9	5789.3
27.5°	6651.3	6649.0	6503.9	6288.3	6077.4	5977.6	5975.3	5998.0	6041.1	5952.6
30°	6930.3	6905.4	6733.0	6508.4	6315.6	6161.3	6147.7	6127.3	6161.3	6091.0
32.5°	7522.4	7443.0	7164.0	6764.7	6512.9	6395.0	6376.8	6249.8	6263.4	6220.3
35°	8370.8	8266.5	7894.5	7250.2	6757.9	6590.1	6581.0	6419.9	6392.7	6354.1
37.5°	9380.3	9251.0	8817.7	7953.4	7179.9	6816.9	6803.3	6658.1	6547.0	6506.1
40°	10394.4	10231.0	9872.6	8810.9	7801.4	7195.7	7152.6	6932.6	6805.6	6737.5
42.5°	11378.9	11242.8	10936.5	9772.8	8568.2	7749.3	7654.0	7277.4	7182.1	7118.6
45°	12250.0	12127.5	11902.9	10800.4	9466.5	8502.4	8409.4	7794.6	7765.1	7765.1
47.5°	12957.8	12930.6	12692.4	11848.5	10525.9	9359.9	9198.9	8513.8	8593.2	8715.7
50°	13742.7	13667.8	13413.8	12880.7	11771.4	10342.2	10210.6	9396.2	9693.4	10029.1
52.5°	14464.1	14504.9	14221.4	13955.9	13177.8	11437.9	11206.5	10437.5	11079.5	11635.2
55°	15205.9	15208.2	15128.8	15092.5	14652.4	12649.3	12395.2	11689.7	12710.5	13400.2
57.5°	15902.3	15906.9	16024.8	16344.7	16362.8	14046.7	13758.6	13227.7	14523.1	15226.3
60°	16523.9	16555.7	16877.8	17626.4	17866.9	15648.3	15376.0	15044.8	16396.9	17104.7
62.5°	16732.6	16848.3	17565.2	18629.1	19352.8	17612.8	17345.1	17147.8	18365.9	19023.8
65°	16378.7	16644.1	18030.2	19457.1	20881.7	19947.1	19681.7	19466.2	20412.2	21031.5
67.5°	15509.9	15852.4	18003.0	20326.0	22737.4	22755.5	22508.3	22002.4	22605.8	22844.0
70°	13220.9	13733.6	16417.3	20650.4	24867.5	26596.1	26358.0	25055.8	24794.9	23642.5
72.5°	8518.3	9207.9	12089.0	17980.3	25341.7	30209.9	30196.3	27812.1	25486.8	22090.9
75°	3107.9	3529.8	5616.9	11285.9	21271.9	30026.1	30114.6	27340.2	23266.0	17063.8
77.5°	1132.0	1238.6	1833.0	4337.4	13082.6	24091.7	24275.4	21857.2	16560.2	8563.7
80°	594.4	653.3	939.2	1683.2	5605.5	14307.6	14595.7	12989.6	7783.3	2579.3
82.5°	328.9	356.2	526.3	914.2	2524.9	6118.2	6290.6	5131.4	2738.1	1093.4
85°	176.9	188.3	247.3	499.1	1234.1	2121.1	2168.7	1533.5	1091.2	642.0
87.5°	52.2	63.5	81.7	158.8	483.2	476.4	487.7	304.0	431.0	324.4
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°
4344.2	0°	4344.2	4344.2	4344.2	4344.2	4344.2	4344.2	4344.2	4344.2	4344.2	4344.2
4378.2	2.5°	4364.6	4357.8	4332.9	4321.5	4307.9	4305.7	4317.0	4319.3	4321.5	4323.8
4428.2	5°	4405.5	4382.8	4360.1	4346.5	4351.0	4353.3	4376.0	4391.9	4403.2	4412.3
4521.2	7.5°	4484.9	4466.7	4428.2	4425.9	4432.7	4453.1	4482.6	4518.9	4539.3	4555.2
4641.4	10°	4602.8	4568.8	4523.4	4530.2	4543.8	4573.3	4634.6	4664.1	4698.1	4727.6
4788.8	12.5°	4723.1	4693.6	4641.4	4645.9	4668.6	4720.8	4779.8	4816.1	4838.8	4861.4
4947.6	15°	4879.6	4827.4	4770.7	4770.7	4811.5	4868.2	4895.5	4925.0	4938.6	4963.5
5117.8	17.5°	5040.7	4972.6	4897.7	4893.2	4943.1	4970.3	4986.2	4990.7	4995.3	5022.5
5283.4	20°	5201.7	5126.9	5020.2	5011.2	5022.5	5018.0	5015.7	5011.2	5018.0	5052.0
5453.5	22.5°	5360.5	5274.3	5126.9	5086.0	5054.3	5011.2	5008.9	5006.6	5011.2	5045.2
5637.3	25°	5546.5	5442.2	5244.8	5122.3	5015.7	4956.7	4963.5	4965.8	4970.3	4997.6
5827.8	27.5°	5748.4	5632.7	5353.7	5111.0	4918.2	4877.3	4866.0	4872.8	4888.7	4931.8
6018.4	30°	5950.3	5814.2	5453.5	5065.6	4795.7	4738.9	4702.6	4718.5	4768.4	4811.5
6184.0	32.5°	6134.1	5998.0	5532.9	4965.8	4639.1	4550.7	4503.0	4523.4	4573.3	4589.2
6367.7	35°	6349.6	6195.3	5567.0	4807.0	4469.0	4332.9	4269.4	4239.9	4264.8	4248.9
6583.2	37.5°	6590.1	6429.0	5562.4	4598.3	4269.4	4112.8	4024.4	3913.2	3861.0	3806.6
6900.8	40°	6946.2	6714.8	5508.0	4346.5	4022.1	3879.2	3720.4	3532.1	3414.1	3307.5
7413.5	42.5°	7431.7	7111.8	5408.2	4069.7	3743.1	3609.2	3393.7	3173.7	2987.6	2810.7
8191.6	45°	8155.3	7631.3	5283.4	3774.8	3441.3	3309.8	3076.1	2828.8	2617.9	2391.0
9296.4	47.5°	9198.9	8330.0	5165.4	3439.1	3123.8	3003.5	2792.5	2563.4	2313.9	2093.8
10893.4	50°	10632.6	9332.7	5056.5	3112.4	2810.7	2720.0	2552.1	2318.4	2066.6	1889.7
12765.0	52.5°	12456.5	10696.1	5011.2	2797.1	2518.1	2484.0	2350.2	2132.4	1894.2	1744.5
14947.3	55°	14550.3	12327.1	5011.2	2495.4	2261.7	2273.1	2180.0	1978.2	1771.7	1637.9
17197.7	57.5°	16687.2	13978.6	4920.4	2216.3	2043.9	2091.6	2032.6	1855.7	1669.6	1531.3
19563.7	60°	18656.3	15362.4	4552.9	1962.3	1851.1	1926.0	1887.4	1735.4	1508.6	1392.9
21541.9	62.5°	20169.4	16142.8	3845.1	1760.4	1692.3	1778.5	1758.1	1576.6	1479.1	1431.4
23166.1	65°	20927.1	16015.8	2940.0	1581.2	1558.5	1692.3	1649.2	1642.4	1565.3	1510.8
23694.7	67.5°	20462.1	14922.3	2132.4	1449.6	1481.3	1612.9	1778.5	1805.7	1662.8	1556.2
22206.6	70°	18422.7	12944.2	1588.0	1324.8	1383.8	1615.2	2028.1	1889.7	1631.1	1506.3
17810.2	72.5°	14014.9	9652.6	1231.8	1193.2	1256.8	1626.5	2139.2	1851.1	1540.3	1665.1
11095.3	75°	8014.7	5299.3	989.1	1032.2	1098.0	1519.9	2082.5	1751.3	1470.0	1529.0
4396.4	77.5°	3055.7	2037.1	816.7	873.4	882.5	1327.1	1991.8	1744.5	1399.7	1365.6
1318.0	80°	1059.4	796.3	676.0	694.2	682.8	1179.6	1910.1	1517.6	1145.6	1025.4
544.4	82.5°	433.3	397.0	535.4	512.7	485.5	916.5	1542.6	1240.9	936.9	828.0
263.1	85°	188.3	251.8	353.9	310.8	281.3	635.2	1236.3	1050.3	791.7	682.8
86.2	87.5°	38.6	95.3	149.7	140.6	145.2	424.2	877.9	746.3	560.3	419.7
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>
4344.2
4332.9
4416.8
4559.7
4720.8
4870.5
4972.6
5031.6
5065.6
5067.9
5033.8
4974.9
4859.2
4645.9
4298.8
3840.6
3314.3
2794.8
2363.8
2068.9
1878.3
1733.2
1624.3
1508.6
1374.7
1415.6
1492.7
1538.1
1485.9
1651.5
1529.0
1245.4
991.3
818.9
680.6
328.9
0.0

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