

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: P953876

Luminaire Tested: **GALN-SB7B-750-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-750-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42935 lumens
Efficiency: N/A
Efficacy: 167.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

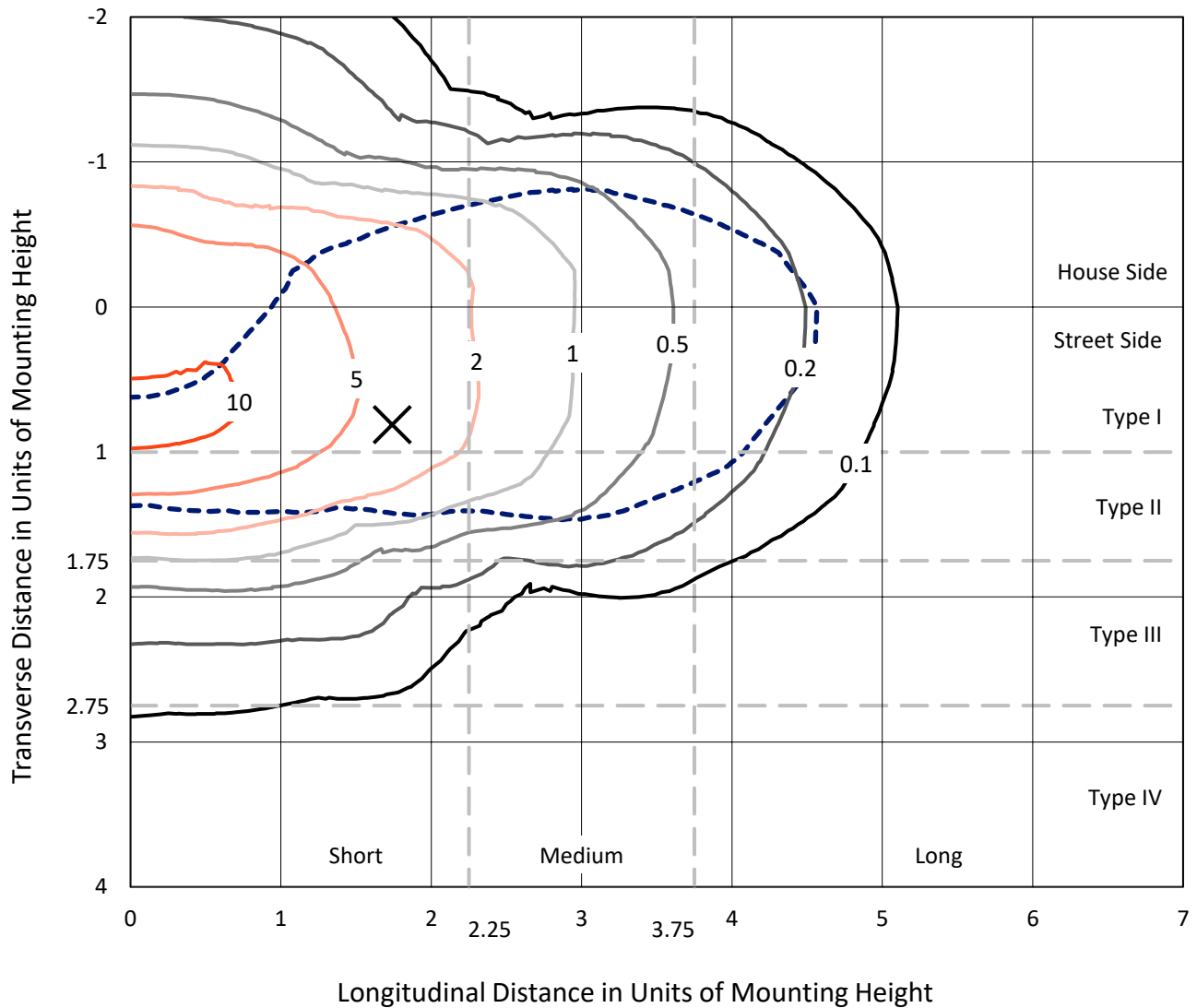
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

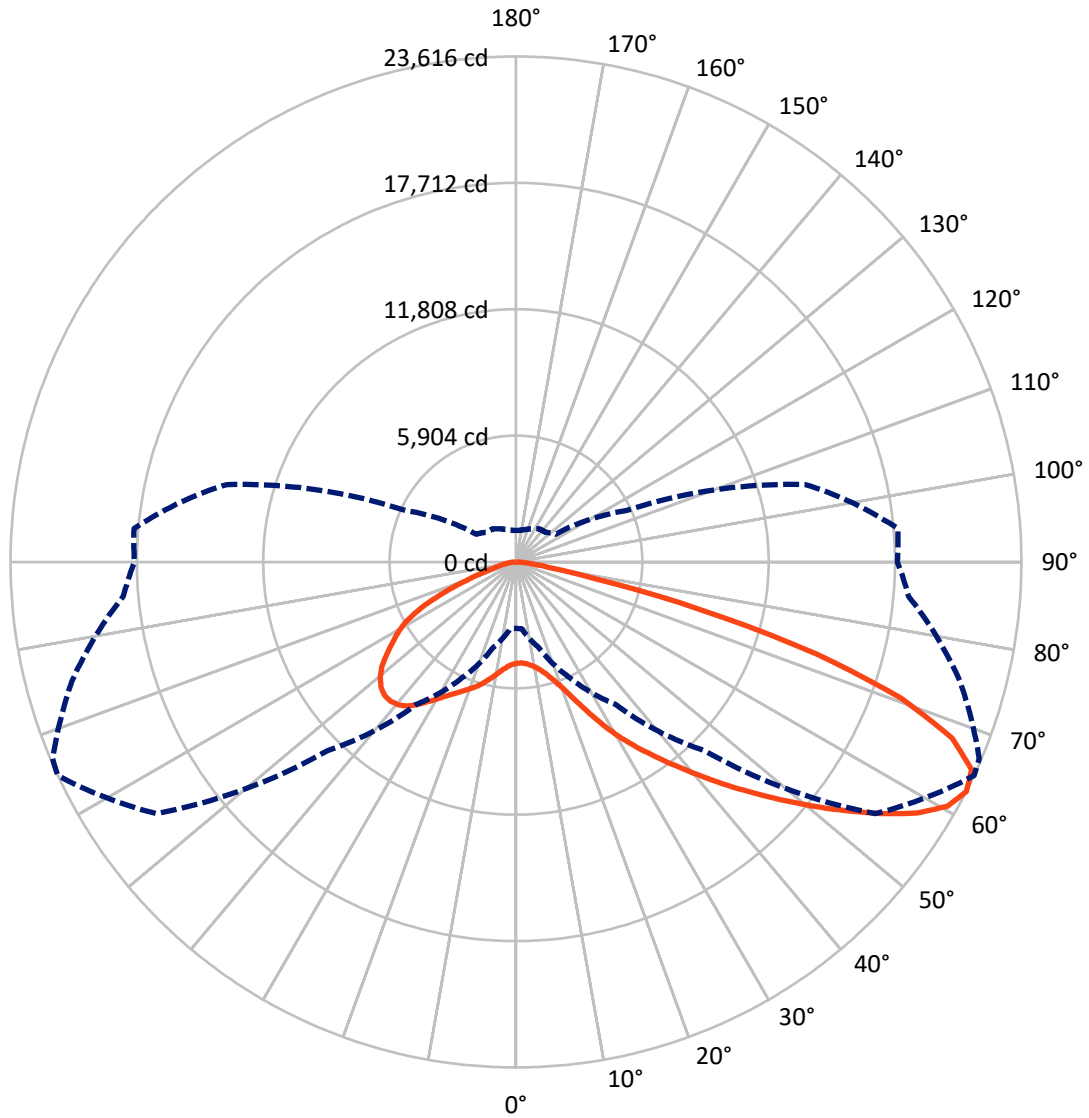
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13548.4	0.0	13548.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	29386.6	0.0	29386.6
	% Fixture	68.4	0.0	68.4
Total	Lumens	42935.0	0.0	42935.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.7	1.1
10°-20°	1599.6	3.7
20°-30°	3243.3	7.6
30°-40°	5612.5	13.1
40°-50°	8493.5	19.8
50°-60°	9958.0	23.2
60°-70°	8348.6	19.4
70°-80°	4609.1	10.7
80°-90°	598.7	1.4
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



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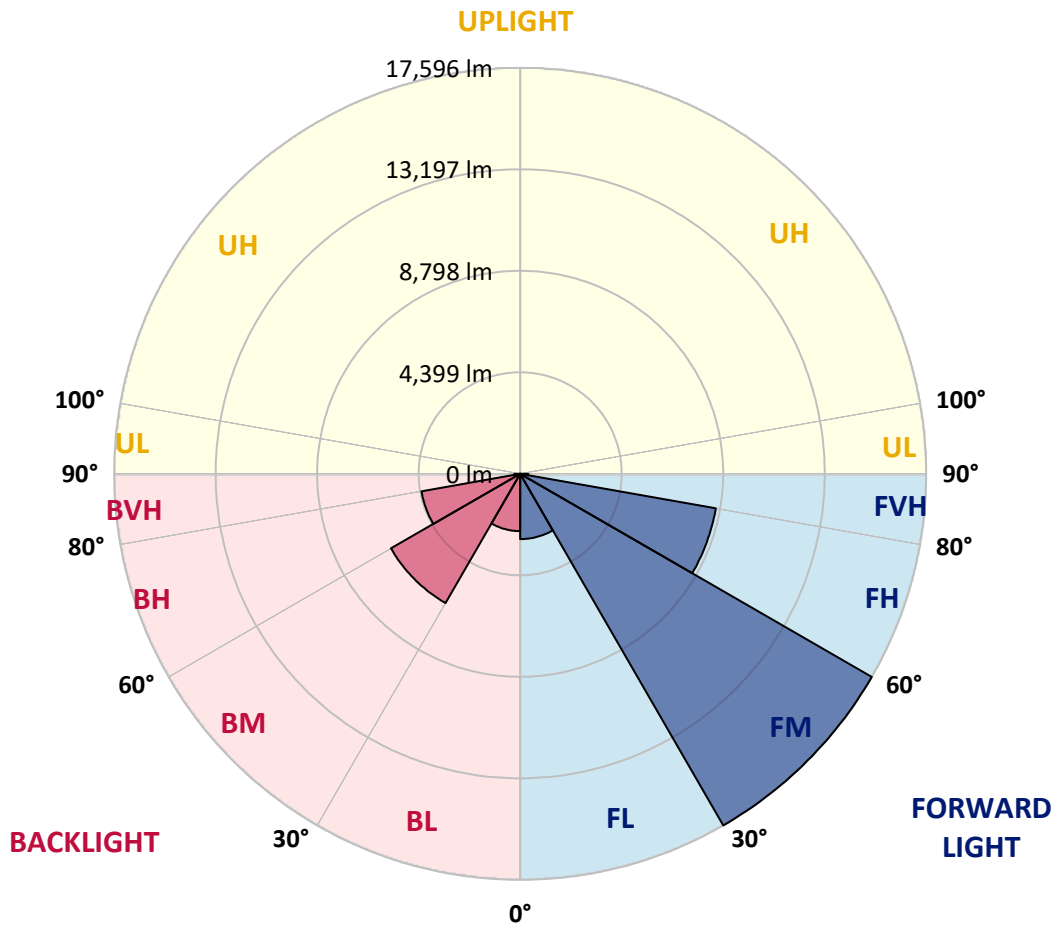
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2830.0	6.6			
FM (30°-60°)	17596.2	41.0			
FH (60°-80°)	8611.5	20.1			G4/12000
FVH (80°-90°)	348.9	0.8			G3/500
BL (0°-30°)	2484.6	5.8	B3/2500		
BM (30°-60°)	6467.8	15.1	B4/8500		
BH (60°-80°)	4346.2	10.1	B4/5000		G4/5000
BVH (80°-90°)	249.8	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3
2.5°	4700.1	4686.7	4697.8	4697.8	4702.3	4700.1	4715.7	4720.1	4726.8	4740.2
5°	4653.3	4651.1	4671.1	4688.9	4706.7	4722.3	4742.4	4771.3	4775.8	4791.4
7.5°	4637.7	4624.3	4655.5	4677.8	4720.1	4758.0	4811.4	4860.4	4880.5	4887.2
10°	4758.0	4735.7	4764.7	4778.0	4813.7	4851.5	4913.9	4991.9	5014.1	5040.9
12.5°	4962.9	4938.4	4980.7	5000.8	5034.2	5067.6	5109.9	5185.7	5196.8	5245.8
15°	5243.6	5214.6	5241.4	5265.9	5321.5	5352.7	5395.1	5468.6	5468.6	5506.4
17.5°	5624.5	5586.6	5606.7	5615.6	5651.2	5698.0	5769.3	5833.9	5867.3	5853.9
20°	6192.5	6145.7	6145.7	6101.2	6087.8	6125.7	6219.2	6308.3	6344.0	6274.9
22.5°	7045.6	6978.8	6940.9	6789.5	6729.3	6733.8	6827.3	6936.5	6965.5	6842.9
25°	8130.4	8025.8	7974.5	7751.8	7615.9	7497.8	7571.3	7711.7	7751.8	7600.3
27.5°	9215.2	9221.9	9172.9	8905.6	8680.6	8464.6	8426.7	8573.7	8616.0	8444.5
30°	10736.6	10578.5	10484.9	10164.2	9843.4	9540.5	9384.5	9444.7	9455.8	9250.9
32.5°	12048.7	12008.6	11808.1	11527.4	11115.3	10640.9	10380.2	10284.5	10266.6	9974.8
35°	13543.3	13521.0	13309.4	12975.3	12529.8	11870.4	11400.4	11126.5	11104.2	10694.3
37.5°	15062.5	15062.5	14855.3	14490.0	14028.9	13204.7	12489.7	12055.3	11984.1	11449.4
40°	16274.3	16200.7	16238.6	16084.9	15557.0	14681.6	13699.2	13068.9	12973.1	12331.5
42.5°	16962.6	16938.1	17165.3	17336.8	17120.7	16421.3	15031.3	14167.0	14033.4	13302.7
45°	17116.3	17089.5	17494.9	18123.1	18426.0	18138.7	16479.2	15323.1	15160.5	14318.5
47.5°	16762.1	16708.6	17303.4	18294.6	19265.8	19771.5	18047.4	16577.2	16341.1	15307.5
50°	15697.3	15646.1	16546.0	17862.5	19548.7	20880.8	19749.2	17907.0	17546.2	16367.8
52.5°	13382.9	13407.4	14817.5	16626.2	19176.7	21571.3	21214.9	19308.1	18873.8	17452.6
55°	10424.8	10478.3	12211.3	14202.7	17688.7	21466.6	22215.0	20751.6	20319.4	18472.8
57.5°	7464.4	7700.5	9324.4	11295.7	14830.8	19807.1	22433.3	22123.7	21704.9	19586.6
60°	4838.2	4880.5	6551.1	8538.1	11293.5	16857.9	21990.1	23164.0	22836.5	20722.6
62.5°	3100.7	3129.7	4147.6	5972.0	8128.2	12471.9	20497.6	23616.2	23515.9	21473.3
65°	2278.8	2256.5	2786.6	3947.2	5475.2	7691.6	17599.6	23397.9	23596.1	21943.3
67.5°	1902.3	1871.1	2131.7	2733.2	4034.0	4368.2	13022.1	21978.9	22705.1	21889.8
70°	1733.0	1706.3	1864.4	2029.3	3147.5	2924.7	6564.5	19107.7	20225.9	21281.7
72.5°	1467.9	1421.2	1637.2	1802.1	2448.0	2243.1	2713.1	14677.1	16040.4	19332.6
75°	1138.3	1107.1	1292.0	1586.0	1839.9	1750.8	1715.2	8912.3	10400.3	14951.1
77.5°	902.1	859.8	1029.1	1236.3	1655.0	1320.9	1249.6	3838.0	5312.6	9544.9
80°	679.4	641.5	781.9	977.9	1271.9	995.7	808.6	1565.9	2002.5	4835.9
82.5°	483.4	450.0	545.7	717.3	855.4	893.2	496.7	877.6	986.8	1864.4
85°	309.6	289.6	365.3	450.0	543.5	574.7	302.9	458.9	503.4	768.5
87.5°	169.3	138.1	196.0	209.4	251.7	229.4	144.8	167.1	180.4	278.4
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°
4731.3	0°	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3
4740.2	2.5°	4749.1	4755.8	4778.0	4784.7	4800.3	4820.4	4833.7	4847.1	4847.1	4860.4
4811.4	5°	4813.7	4829.3	4876.0	4900.5	4940.6	4980.7	5005.2	5034.2	5052.0	5060.9
4925.0	7.5°	4938.4	4962.9	5029.7	5072.1	5141.1	5196.8	5234.7	5274.8	5283.7	5308.2
5083.2	10°	5107.7	5136.7	5212.4	5292.6	5375.0	5444.1	5479.7	5508.7	5519.8	5524.2
5285.9	12.5°	5301.5	5343.8	5441.8	5539.8	5626.7	5686.9	5695.8	5689.1	5657.9	5631.2
5535.4	15°	5539.8	5577.7	5686.9	5793.8	5878.4	5889.6	5833.9	5798.2	5760.4	5753.7
5813.8	17.5°	5825.0	5845.0	5945.2	6049.9	6056.6	6018.8	5936.3	5902.9	5867.3	5842.8
6176.9	20°	6156.9	6150.2	6221.5	6266.0	6219.2	6103.4	5978.7	5923.0	5887.3	5858.4
6622.4	22.5°	6553.4	6502.1	6493.2	6482.1	6357.3	6114.5	5945.2	5874.0	5818.3	5778.2
7243.9	25°	7130.3	6934.3	6798.4	6722.7	6442.0	6054.4	5838.3	5680.2	5575.5	5506.4
8003.5	27.5°	7852.0	7522.3	7179.3	6994.4	6442.0	5931.9	5579.9	5323.8	5152.3	5081.0
8738.6	30°	8540.3	8195.0	7689.4	7321.9	6426.4	5731.4	5163.4	4807.0	4606.5	4535.2
9366.7	32.5°	9128.4	8751.9	8230.7	7680.5	6388.5	5406.2	4646.6	4252.3	4058.5	3973.9
9988.2	35°	9674.1	9273.2	8774.2	8074.8	6288.3	4929.5	4078.6	3777.9	3561.8	3425.9
10620.8	37.5°	10233.2	9756.5	9288.8	8431.2	6107.9	4372.6	3642.0	3385.8	3131.9	2949.2
11293.5	40°	10841.3	10271.1	9839.0	8642.8	5811.6	3842.5	3303.4	3069.5	2800.0	2606.2
12068.7	42.5°	11551.9	10888.1	10451.5	8751.9	5406.2	3466.0	3082.9	2853.5	2599.5	2441.4
12899.6	45°	12293.7	11567.5	11010.6	8749.7	4954.0	3290.0	3011.6	2784.4	2503.7	2338.9
13752.7	47.5°	13071.1	12278.1	11494.0	8607.1	4562.0	3314.5	2971.5	2635.2	2325.5	2165.1
14614.8	50°	13850.7	13055.5	11961.8	8339.8	4394.9	3261.1	2822.3	2425.8	2060.5	1915.7
15423.3	52.5°	14623.7	13881.9	12365.0	7958.9	4225.6	3062.8	2630.7	2154.0	1951.3	1851.1
16258.7	55°	15401.1	14699.4	12803.8	7404.3	3802.4	2831.2	2309.9	2051.5	1864.4	1773.1
17076.2	57.5°	16180.7	15643.9	13220.3	6849.6	3270.0	2546.1	2134.0	1926.8	1777.6	1699.6
17760.0	60°	16991.5	16724.2	13650.2	6339.5	2744.3	2180.7	2004.8	1826.6	1675.1	1588.2
18417.1	62.5°	17826.8	17913.7	13986.6	5682.4	2260.9	1958.0	1888.9	1706.3	1559.3	1476.8
18960.6	65°	18668.8	19060.9	14207.1	4771.3	1833.2	1746.4	1764.2	1574.9	1425.6	1354.3
19359.4	67.5°	19303.7	19887.3	14144.7	3610.8	1503.6	1545.9	1608.3	1436.7	1296.4	1240.7
19294.8	70°	19375.0	19789.3	13530.0	2472.5	1258.5	1349.9	1434.5	1300.9	1156.1	1116.0
18385.9	72.5°	18426.0	18452.8	11817.0	1615.0	1064.8	1185.0	1251.9	1162.8	1022.4	982.3
16084.9	75°	15937.9	15260.7	8676.2	1064.8	891.0	1018.0	1080.3	1018.0	882.1	891.0
12035.3	77.5°	12075.4	10807.9	5268.1	757.4	744.0	855.4	940.0	895.5	779.6	875.4
6052.2	80°	6221.5	5847.2	2350.0	565.8	588.1	683.8	772.9	715.0	617.0	588.1
1352.1	82.5°	1425.6	1657.3	926.6	405.4	425.5	492.3	590.3	536.8	443.3	374.2
563.6	85°	499.0	545.7	409.9	253.9	249.5	307.4	401.0	358.6	300.7	240.6
238.3	87.5°	158.2	207.2	153.7	102.5	106.9	138.1	184.9	169.3	140.3	91.3
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>
4731.3
4860.4
5065.4
5299.3
5513.1
5631.2
5753.7
5845.0
5860.6
5791.5
5533.2
5116.6
4577.6
4016.2
3470.5
2998.2
2644.1
2472.5
2365.6
2187.4
1924.6
1851.1
1764.2
1686.2
1581.5
1474.6
1352.1
1243.0
1118.2
980.1
859.8
770.7
536.8
369.8
253.9
95.8
0.0

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