

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: P952910

Luminaire Tested: **GALN-SB6C-840-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952910
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-SB6C-840-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44022 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

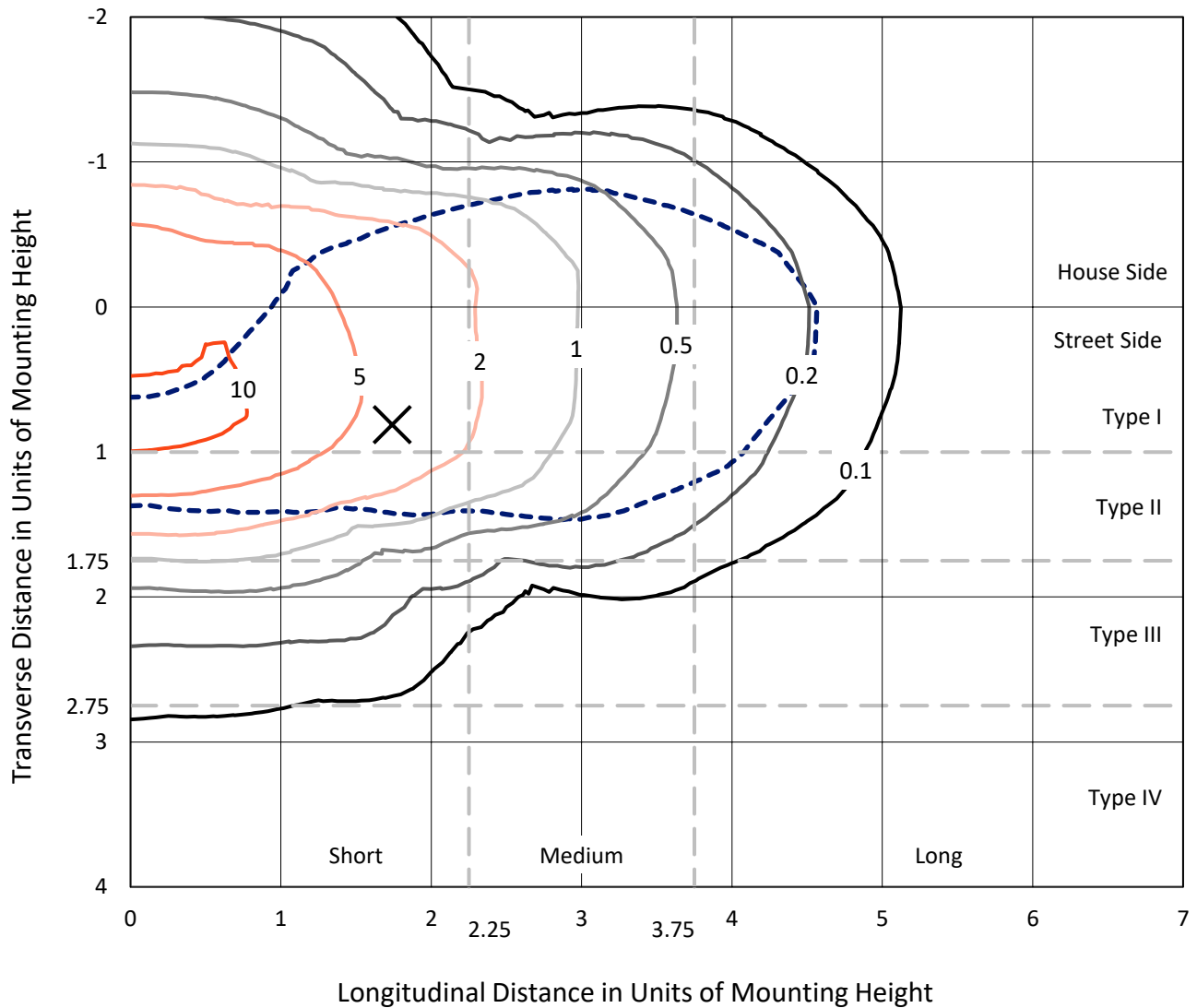
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

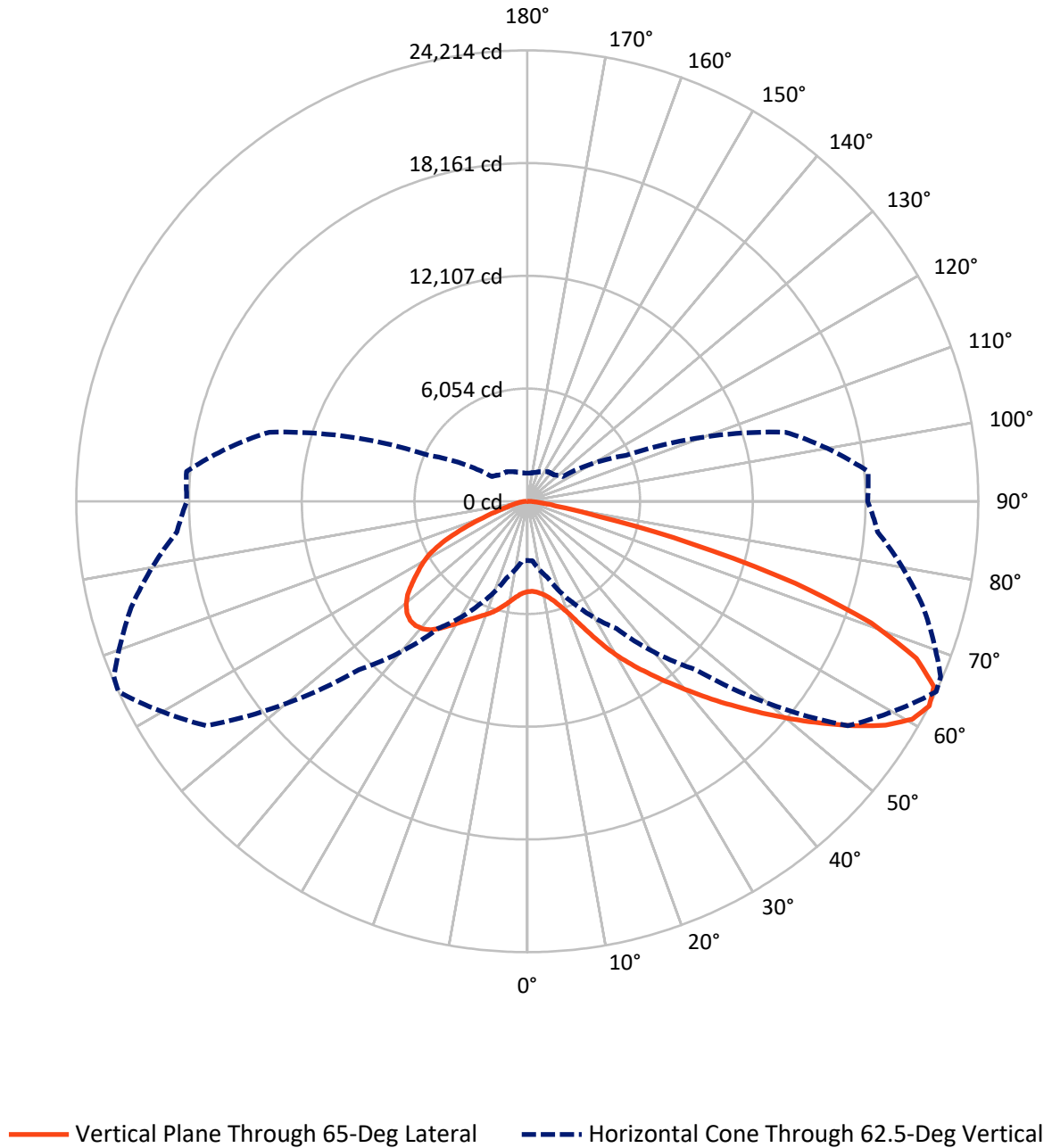
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13891.4	0.0	13891.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	30130.6	0.0	30130.6
	% Fixture	68.4	0.0	68.4
Total	Lumens	44022.0	0.0	44022.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.6	1.1
10°-20°	1640.1	3.7
20°-30°	3325.4	7.6
30°-40°	5754.6	13.1
40°-50°	8708.5	19.8
50°-60°	10210.1	23.2
60°-70°	8560.0	19.4
70°-80°	4725.8	10.7
80°-90°	613.9	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°	44022.0	100.0
0°-180°	44022.0	100.0

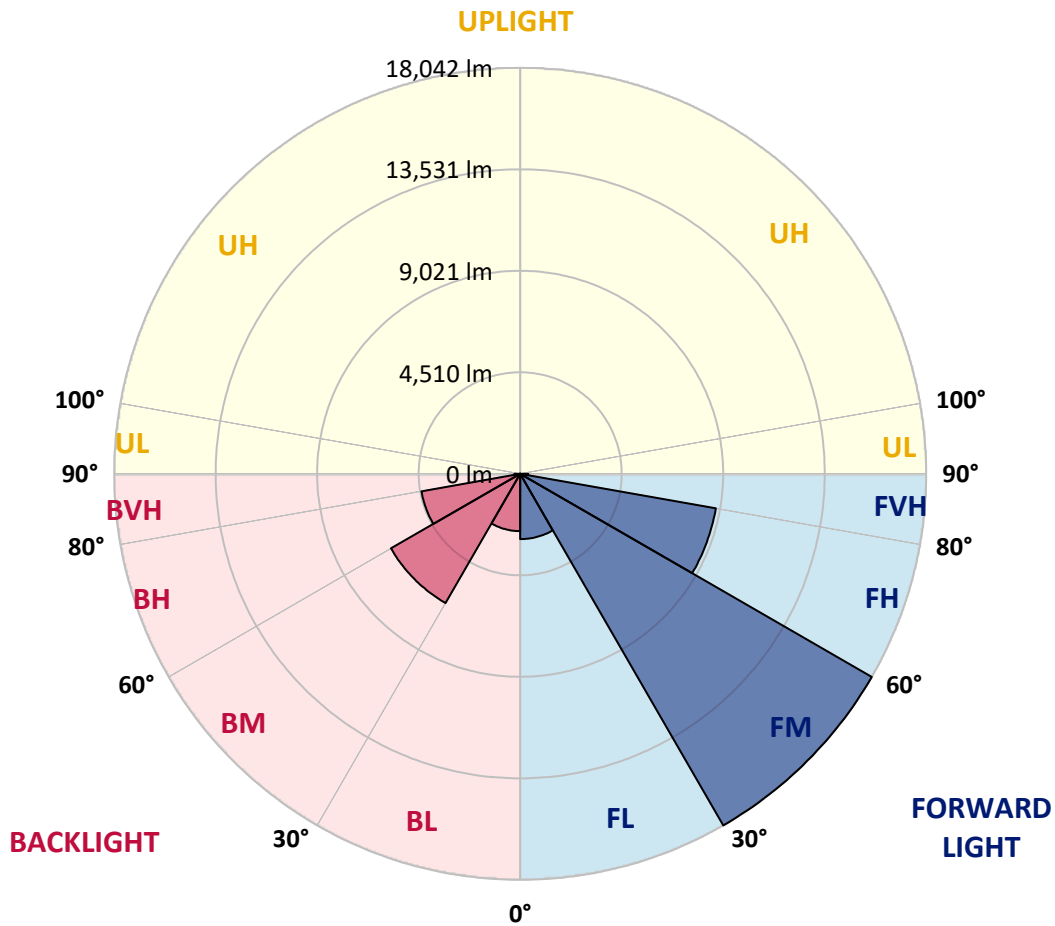


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2901.6	6.6			
FM (30°-60°)	18041.6	41.0			
FH (60°-80°)	8829.5	20.1			G4/12000
FVH (80°-90°)	357.8	0.8			G3/500
BL (0°-30°)	2547.5	5.8	B4/5000		
BM (30°-60°)	6631.6	15.1	B4/8500		
BH (60°-80°)	4456.2	10.1	B4/5000		G4/5000
BVH (80°-90°)	256.1	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°	4851.0	4851.0	4851.0	4851.0	4851.0	4851.0	4851.0	4851.0	4851.0	4851.0
2.5°	4819.1	4805.4	4816.8	4816.8	4821.3	4819.1	4835.0	4839.6	4846.5	4860.2
5°	4771.1	4768.8	4789.4	4807.6	4825.9	4841.9	4862.5	4892.1	4896.7	4912.7
7.5°	4755.1	4741.4	4773.4	4796.2	4839.6	4878.4	4933.3	4983.5	5004.1	5010.9
10°	4878.4	4855.6	4885.3	4899.0	4935.5	4974.4	5038.3	5118.3	5141.1	5168.5
12.5°	5088.6	5063.4	5106.8	5127.4	5161.6	5195.9	5239.3	5317.0	5328.4	5378.6
15°	5376.3	5346.6	5374.0	5399.2	5456.3	5488.2	5531.6	5607.0	5607.0	5645.8
17.5°	5766.9	5728.1	5748.6	5757.7	5794.3	5842.3	5915.3	5981.6	6015.8	6002.1
20°	6349.3	6301.3	6301.3	6255.6	6241.9	6280.8	6376.7	6468.0	6504.6	6433.8
22.5°	7224.0	7155.5	7116.7	6961.4	6899.7	6904.3	7000.2	7112.1	7141.8	7016.2
25°	8336.3	8228.9	8176.4	7948.0	7808.7	7687.7	7763.0	7906.9	7948.0	7792.7
27.5°	9448.6	9455.4	9405.2	9131.1	8900.4	8678.9	8640.0	8790.8	8834.2	8658.3
30°	11008.5	10846.3	10750.4	10421.5	10092.6	9782.0	9622.1	9683.8	9695.2	9485.1
32.5°	12353.7	12312.6	12107.0	11819.3	11396.7	10910.3	10643.0	10544.8	10526.6	10227.4
35°	13886.2	13863.4	13646.4	13303.8	12847.0	12171.0	11689.1	11408.2	11385.3	10965.1
37.5°	15443.8	15443.8	15231.4	14856.9	14384.1	13539.0	12805.9	12360.5	12287.5	11739.3
40°	16686.3	16610.9	16649.7	16492.1	15950.9	15053.3	14046.1	13399.7	13301.5	12643.7
42.5°	17392.0	17366.9	17599.8	17775.7	17554.2	16837.0	15411.9	14525.7	14388.7	13639.5
45°	17549.6	17522.2	17937.9	18581.9	18892.5	18597.9	16896.4	15711.0	15544.3	14681.0
47.5°	17186.5	17131.6	17741.4	18757.8	19753.6	20272.0	18504.3	16996.9	16754.8	15695.1
50°	16094.7	16042.2	16964.9	18314.7	20043.6	21409.4	20249.2	18360.4	17990.4	16782.2
52.5°	13721.8	13746.9	15192.6	17047.1	19662.2	22117.4	21752.0	19797.0	19351.6	17894.5
55°	10688.7	10743.5	12520.4	14562.2	18136.6	22010.1	22777.5	21276.9	20833.9	18940.5
57.5°	7653.4	7895.5	9560.5	11581.7	15206.3	20308.6	23001.3	22683.8	22254.5	20082.5
60°	4960.7	5004.1	6717.0	8754.2	11579.4	17284.7	22546.8	23750.4	23414.7	21247.3
62.5°	3179.2	3208.9	4252.6	6123.2	8334.0	12787.6	21016.6	24214.1	24111.3	22016.9
65°	2336.4	2313.6	2857.2	4047.1	5613.9	7886.4	18045.2	23990.2	24193.5	22498.8
67.5°	1950.5	1918.5	2185.7	2802.4	4136.2	4478.8	13351.8	22535.4	23279.9	22444.0
70°	1776.9	1749.5	1911.6	2080.6	3227.2	2998.8	6730.7	19591.4	20737.9	21820.5
72.5°	1505.1	1457.1	1678.7	1847.7	2510.0	2299.9	2781.8	15048.7	16446.5	19822.1
75°	1167.1	1135.1	1324.7	1626.1	1886.5	1795.2	1758.6	9137.9	10663.6	15329.6
77.5°	925.0	881.6	1055.2	1267.6	1696.9	1354.4	1281.3	3935.2	5447.1	9786.6
80°	696.6	657.8	801.7	1002.6	1304.1	1020.9	829.1	1605.6	2053.2	4958.4
82.5°	495.6	461.4	559.6	735.4	877.0	915.8	509.3	899.9	1011.8	1911.6
85°	317.5	296.9	374.6	461.4	557.3	589.2	310.6	470.5	516.2	788.0
87.5°	173.6	141.6	201.0	214.7	258.1	235.2	148.5	171.3	185.0	285.5
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°
4851.0	0°	4851.0	4851.0	4851.0	4851.0	4851.0	4851.0	4851.0	4851.0	4851.0	4851.0
4860.2	2.5°	4869.3	4876.2	4899.0	4905.8	4921.8	4942.4	4956.1	4969.8	4969.8	4983.5
4933.3	5°	4935.5	4951.5	4999.5	5024.6	5065.7	5106.8	5132.0	5161.6	5179.9	5189.1
5049.7	7.5°	5063.4	5088.6	5157.1	5200.5	5271.3	5328.4	5367.2	5408.3	5417.4	5442.6
5211.9	10°	5237.0	5266.7	5344.4	5426.6	5511.1	5581.9	5618.4	5648.1	5659.5	5664.1
5419.7	12.5°	5435.7	5479.1	5579.6	5680.1	5769.2	5830.8	5840.0	5833.1	5801.1	5773.7
5675.5	15°	5680.1	5718.9	5830.8	5940.5	6027.2	6038.7	5981.6	5945.0	5906.2	5899.4
5961.0	17.5°	5972.4	5993.0	6095.8	6203.1	6210.0	6171.1	6086.6	6052.4	6015.8	5990.7
6333.3	20°	6312.7	6305.9	6379.0	6424.7	6376.7	6257.9	6130.0	6072.9	6036.4	6006.7
6790.1	22.5°	6719.3	6666.7	6657.6	6646.2	6518.3	6269.3	6095.8	6022.7	5965.6	5924.5
7427.3	25°	7310.8	7109.8	6970.5	6892.9	6605.1	6207.7	5986.1	5824.0	5716.6	5645.8
8206.1	27.5°	8050.8	7712.8	7361.1	7171.5	6605.1	6082.1	5721.2	5458.6	5282.7	5209.6
8959.8	30°	8756.5	8402.5	7884.1	7507.2	6589.1	5876.5	5294.1	4928.7	4723.1	4650.0
9603.9	32.5°	9359.5	8973.5	8439.1	7874.9	6550.3	5543.1	4764.2	4360.0	4161.3	4074.5
10241.1	35°	9919.0	9507.9	8996.3	8279.2	6447.5	5054.3	4181.8	3873.5	3652.0	3512.7
10889.7	37.5°	10492.3	10003.5	9523.9	8644.6	6262.5	4483.3	3734.2	3471.5	3211.2	3023.9
11579.4	40°	11115.8	10531.1	10088.0	8861.6	5958.7	3939.8	3387.0	3147.2	2870.9	2672.2
12374.2	42.5°	11844.4	11163.8	10716.1	8973.5	5543.1	3553.8	3160.9	2925.7	2665.3	2503.2
13226.1	45°	12604.9	11860.4	11289.4	8971.2	5079.4	3373.3	3087.9	2854.9	2567.1	2398.1
14100.9	47.5°	13402.0	12588.9	11785.0	8825.0	4677.5	3398.5	3046.7	2701.9	2384.4	2220.0
14984.8	50°	14201.4	13386.0	12264.6	8551.0	4506.2	3343.7	2893.7	2487.2	2112.6	1964.2
15813.8	52.5°	14993.9	14233.4	12678.0	8160.4	4332.6	3140.4	2697.3	2208.5	2000.7	1897.9
16670.3	55°	15791.0	15071.5	13127.9	7591.7	3898.6	2902.9	2368.4	2103.5	1911.6	1818.0
17508.5	57.5°	16590.4	16039.9	13555.0	7023.0	3352.8	2610.5	2188.0	1975.6	1822.6	1742.6
18209.6	60°	17421.7	17147.6	13995.8	6500.0	2813.8	2236.0	2055.5	1872.8	1717.5	1628.4
18883.4	62.5°	18278.2	18367.2	14340.7	5826.3	2318.2	2007.6	1936.8	1749.5	1598.7	1514.2
19440.7	65°	19141.5	19543.5	14566.8	4892.1	1879.7	1790.6	1808.9	1614.7	1461.7	1388.6
19849.5	67.5°	19792.4	20390.8	14502.9	3702.2	1541.6	1585.0	1649.0	1473.1	1329.2	1272.1
19783.3	70°	19865.5	20290.3	13872.5	2535.1	1290.4	1384.1	1470.8	1333.8	1185.4	1144.2
18851.4	72.5°	18892.5	18919.9	12116.2	1655.8	1091.7	1215.0	1283.6	1192.2	1048.3	1007.2
16492.1	75°	16341.4	15647.1	8895.8	1091.7	913.6	1043.7	1107.7	1043.7	904.4	913.6
12340.0	77.5°	12381.1	11081.6	5401.5	776.5	762.8	877.0	963.8	918.1	799.4	897.6
6205.4	80°	6379.0	5995.3	2409.5	580.1	603.0	701.2	792.5	733.1	632.6	603.0
1386.3	82.5°	1461.7	1699.2	950.1	415.7	436.2	504.7	605.2	550.4	454.5	383.7
577.8	85°	511.6	559.6	420.2	260.4	255.8	315.2	411.1	367.7	308.3	246.7
244.4	87.5°	162.2	212.4	157.6	105.1	109.6	141.6	189.6	173.6	143.9	93.6
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

<u>180°</u>
4851.0
4983.5
5193.6
5433.4
5652.7
5773.7
5899.4
5993.0
6009.0
5938.2
5673.2
5246.2
4693.4
4117.9
3558.3
3074.1
2711.0
2535.1
2425.5
2242.8
1973.3
1897.9
1808.9
1728.9
1621.6
1512.0
1386.3
1274.4
1146.5
1004.9
881.6
790.2
550.4
379.1
260.4
98.2
0.0

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