

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: P944262

Luminaire Tested: **GALN-SB9A-850-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-850-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38740 lumens
Efficiency: N/A
Efficacy: 151.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

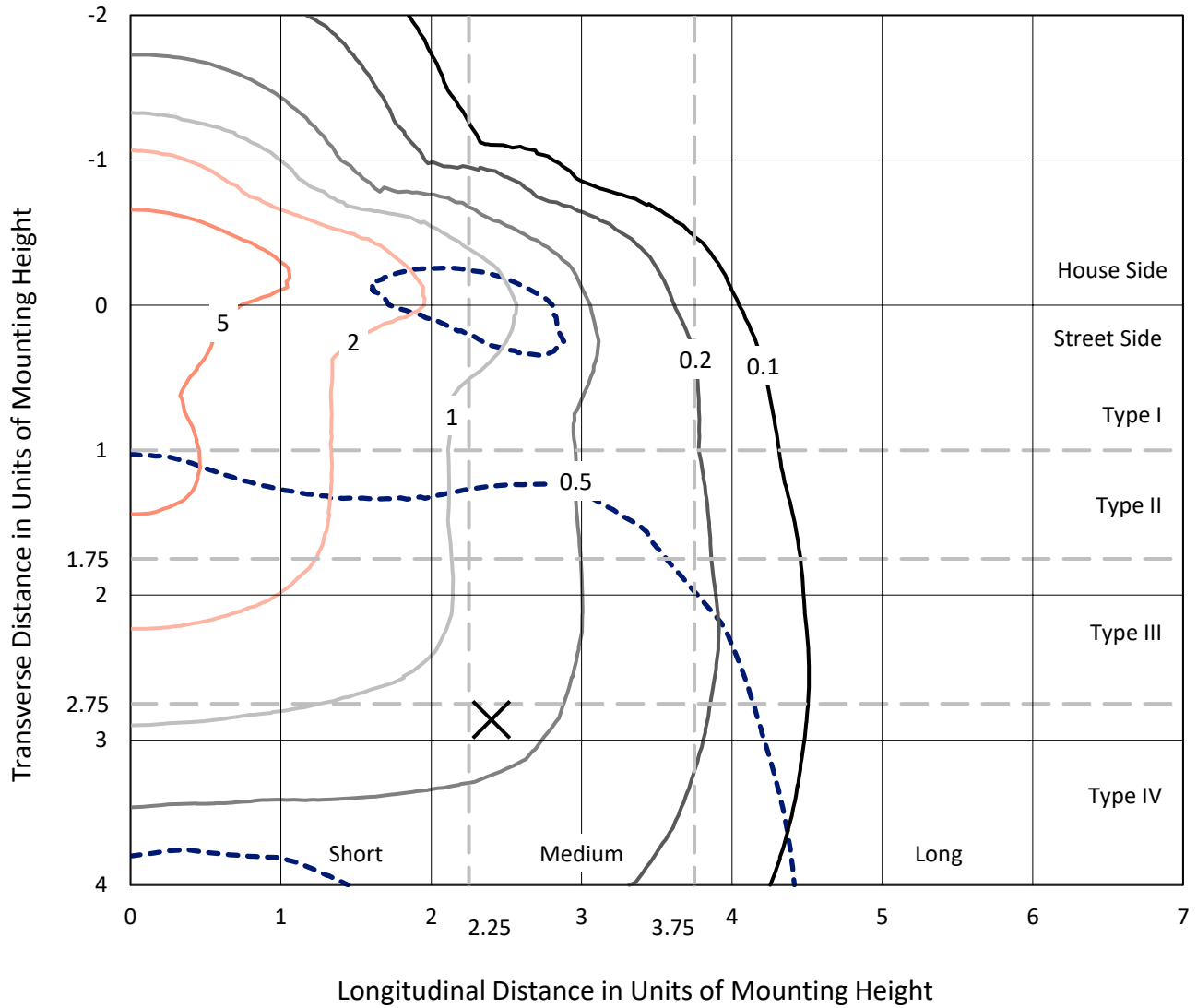
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

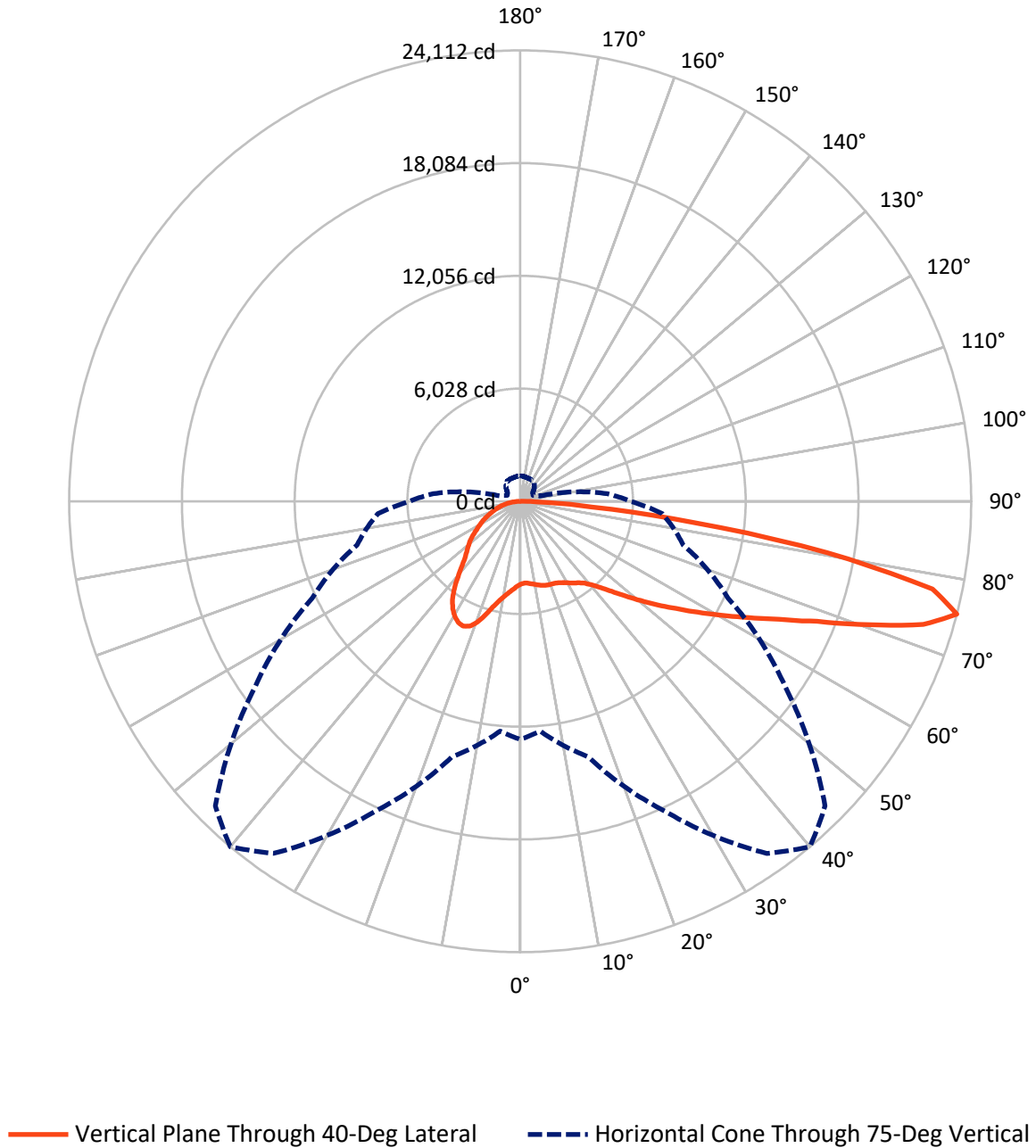
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12002.9	0.0	12002.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	26737.1	0.0	26737.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	38740.0	0.0	38740.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.2	1.1
10°-20°	1484.7	3.8
20°-30°	2710.9	7.0
30°-40°	3844.7	9.9
40°-50°	5191.6	13.4
50°-60°	6984.0	18.0
60°-70°	8864.3	22.9
70°-80°	8044.9	20.8
80°-90°	1172.7	3.0
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°	38740.0	100.0
0°-180°	38740.0	100.0

Coefficient of Utilization



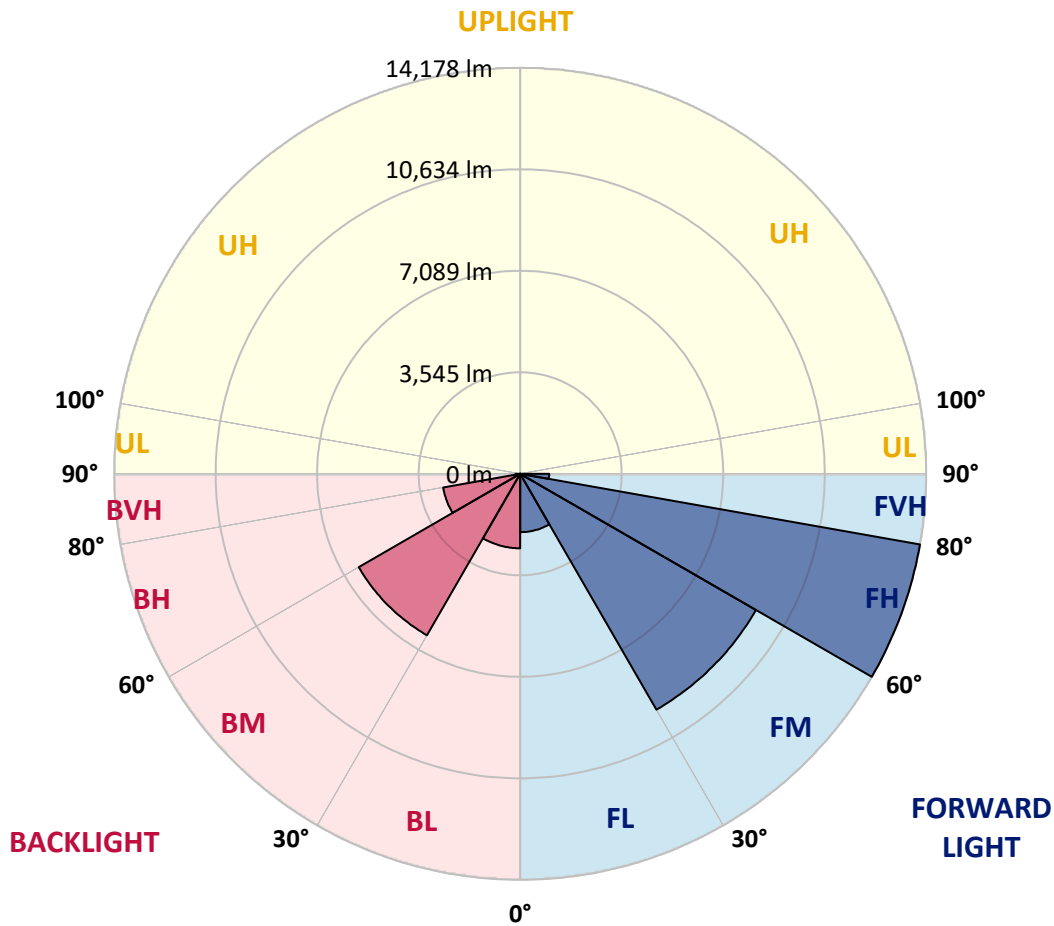
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2037.8	5.3			
FM (30°-60°)	9509.8	24.5			
FH (60°-80°)	14178.3	36.6			G5
FVH (80°-90°)	1011.2	2.6			G5
BL (0°-30°)	2599.9	6.7	B4/5000		
BM (30°-60°)	6510.5	16.8	B4/8500		
BH (60°-80°)	2731.0	7.0	B4/5000		G4/5000
BVH (80°-90°)	161.5	0.4			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	4430.0	4430.0	4430.0	4430.0	4430.0	4430.0	4430.0	4430.0	4430.0	4430.0
2.5°	4362.2	4386.8	4380.7	4372.4	4372.4	4374.5	4372.4	4386.8	4401.2	4415.6
5°	4407.4	4432.0	4419.7	4409.4	4401.2	4399.1	4393.0	4390.9	4399.1	4417.6
7.5°	4495.7	4520.4	4501.9	4483.4	4467.0	4458.7	4450.5	4438.2	4432.0	4442.3
10°	4594.3	4619.0	4596.4	4563.5	4536.8	4526.5	4518.3	4506.0	4497.8	4503.9
12.5°	4693.0	4717.6	4686.8	4641.6	4606.7	4600.5	4590.2	4586.1	4584.1	4582.0
15°	4785.4	4806.0	4766.9	4713.5	4676.5	4666.3	4656.0	4662.2	4672.4	4684.8
17.5°	4857.4	4877.9	4820.4	4750.5	4715.6	4711.5	4705.3	4725.8	4754.6	4785.4
20°	4923.1	4943.6	4869.7	4775.2	4734.1	4734.1	4736.1	4779.3	4820.4	4865.6
22.5°	5015.6	5032.0	4941.6	4812.1	4752.6	4756.7	4773.1	4816.3	4867.6	4929.3
25°	5153.2	5165.6	5054.6	4882.0	4814.2	4826.5	4840.9	4861.5	4910.8	4982.7
27.5°	5375.1	5385.4	5239.5	5005.3	4902.6	4923.1	4943.6	4929.3	4951.9	5013.5
30°	5687.5	5693.6	5508.7	5198.4	5052.5	5062.8	5066.9	5007.3	4964.2	5013.5
32.5°	6057.3	6055.3	5835.4	5432.7	5223.1	5212.8	5177.9	5060.8	4960.1	5003.2
35°	6630.6	6608.0	6324.4	5761.4	5416.2	5352.5	5270.4	5120.4	4980.6	4993.0
37.5°	7579.9	7510.0	7117.5	6299.8	5703.9	5541.6	5420.3	5216.9	5025.8	4988.9
40°	8650.4	8562.0	8130.5	7037.4	6135.4	5874.4	5679.2	5354.6	5099.8	5007.3
42.5°	9920.2	9794.8	9330.5	7906.6	6681.9	6303.9	6010.0	5529.2	5208.7	5066.9
45°	11479.7	11313.3	10655.8	8886.7	7370.3	6866.9	6474.4	5794.3	5375.1	5182.0
47.5°	13055.7	13096.8	12161.9	10008.5	8196.3	7561.4	7055.9	6192.9	5617.6	5366.9
50°	14730.3	14759.0	13659.8	11251.6	9133.2	8346.3	7709.3	6638.8	5954.6	5629.9
52.5°	16037.1	16041.2	15020.0	12552.3	10109.2	9209.2	8414.1	7148.4	6345.0	5979.2
55°	16854.8	16844.6	15973.4	13783.0	11231.1	10115.4	9194.9	7727.8	6821.7	6390.2
57.5°	17448.7	17417.8	16630.9	14841.2	12426.9	11185.9	10078.4	8385.3	7384.7	6879.2
60°	17674.7	17656.2	17076.8	15755.6	13684.4	12369.4	11097.5	9120.9	8023.7	7456.6
62.5°	17761.0	17795.9	17514.4	16641.2	15030.3	13680.3	12217.3	10000.3	8742.8	8110.0
65°	18065.1	18128.8	18071.2	17800.0	16550.7	15215.2	13702.9	11046.2	9527.7	8810.6
67.5°	18667.1	18730.8	18755.5	19187.0	18408.2	17128.1	15556.3	12348.9	10446.2	9538.0
70°	18652.7	18634.2	19069.8	20290.3	20734.2	19776.7	18054.8	13951.5	11541.3	10142.1
72.5°	16978.1	16830.2	17859.6	20278.0	22669.7	22542.3	21106.1	16018.6	12486.5	10216.1
75°	12737.2	12342.7	14161.1	18274.7	22992.3	24112.1	23045.7	17300.7	12262.6	9026.4
77.5°	5447.1	5050.5	7193.6	13528.3	20578.0	22540.2	21266.3	15094.0	9788.7	5969.0
80°	1426.0	1423.9	2173.9	6133.3	13994.7	16645.3	14602.9	9747.6	5592.9	2132.8
82.5°	589.7	575.3	799.3	2385.5	6838.1	9340.7	7623.0	4347.8	2019.8	577.4
85°	219.9	217.8	388.3	823.9	2412.2	3852.6	2788.3	1111.6	503.4	281.5
87.5°	61.6	59.6	84.2	285.6	587.6	891.7	476.7	182.9	141.8	111.0
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°
4430.0	0°	4430.0	4430.0	4430.0	4430.0	4430.0	4430.0	4430.0	4430.0	4430.0	4430.0
4438.2	2.5°	4444.4	4454.6	4473.1	4487.5	4506.0	4526.5	4555.3	4573.8	4592.3	4604.6
4448.5	5°	4462.8	4485.4	4532.7	4580.0	4635.4	4686.8	4746.4	4789.5	4824.5	4834.7
4485.4	7.5°	4503.9	4540.9	4621.1	4701.2	4789.5	4873.8	4960.1	5034.1	5093.6	5116.2
4551.2	10°	4575.9	4625.2	4738.2	4851.2	4968.3	5097.8	5208.7	5315.6	5399.8	5434.7
4629.3	12.5°	4666.3	4727.9	4875.8	5032.0	5194.3	5373.1	5516.9	5648.4	5753.2	5800.5
4738.2	15°	4783.4	4863.5	5052.5	5262.1	5500.5	5749.1	5932.0	6077.9	6195.0	6252.5
4851.2	17.5°	4910.8	5017.6	5256.0	5572.4	5913.5	6240.2	6453.9	6560.7	6681.9	6737.4
4956.0	20°	5034.1	5165.6	5506.6	5966.9	6421.0	6768.2	6940.8	6969.6	6977.8	6984.0
5054.6	22.5°	5161.5	5338.2	5821.0	6464.1	6951.1	7191.5	7216.2	7092.9	6920.3	6840.2
5151.2	25°	5301.2	5535.4	6232.0	7012.8	7407.3	7436.0	7247.0	6947.0	6620.3	6470.3
5229.3	27.5°	5436.8	5763.5	6725.1	7536.7	7736.0	7483.3	7076.4	6651.1	6256.6	6098.4
5284.7	30°	5572.4	6024.4	7269.6	7994.9	7886.0	7366.2	6807.3	6332.6	5936.1	5769.6
5334.0	32.5°	5710.1	6328.5	7896.3	8325.7	7859.3	7117.5	6472.4	5975.1	5625.8	5451.2
5377.2	35°	5866.2	6702.5	8490.1	8506.5	7680.5	6751.8	6030.6	5547.7	5243.6	5103.9
5428.6	37.5°	6069.6	7177.1	9014.0	8551.7	7368.2	6215.5	5482.0	5042.3	4791.6	4727.9
5504.6	40°	6322.4	7748.3	9414.7	8479.8	6905.9	5564.2	4882.0	4530.7	4388.9	4403.3
5607.3	42.5°	6651.1	8387.4	9696.2	8294.9	6262.8	4892.3	4356.0	4199.8	4267.6	4325.2
5761.4	45°	7078.5	9051.0	9870.9	7980.5	5535.4	4323.1	4045.7	4082.7	4134.1	4140.3
6010.0	47.5°	7625.1	9722.9	9985.9	7505.9	4793.7	3922.5	3848.5	3856.7	3846.4	3803.3
6382.0	50°	8307.2	10376.3	10088.7	6877.1	4162.9	3671.8	3573.2	3544.4	3402.6	3262.9
6877.1	52.5°	9083.9	10976.3	10131.8	6096.3	3671.8	3462.2	3301.9	3121.1	2856.1	2812.9
7499.7	55°	9946.9	11531.1	10020.9	5136.8	3258.8	3193.0	2950.6	2732.8	2704.0	2667.0
8319.6	57.5°	10978.4	12129.0	9794.8	4066.3	2835.5	2878.7	2642.4	2667.0	2615.7	2558.1
9373.6	60°	12106.4	12747.5	9398.3	3090.3	2397.9	2486.2	2562.2	2560.2	2545.8	2498.5
10485.2	62.5°	13121.4	13154.3	8617.5	2367.0	2013.6	2182.1	2389.6	2387.6	2375.3	2348.5
11646.1	65°	13725.5	13092.7	7314.8	1863.6	1697.2	1931.4	2155.4	2171.8	2173.9	2171.8
12519.4	67.5°	13618.7	12371.5	5527.2	1483.5	1436.2	1676.6	1923.2	1945.8	1962.3	1966.4
12630.3	70°	12410.5	10787.3	3604.0	1183.5	1204.1	1452.7	1703.4	1726.0	1740.3	1756.8
10959.9	72.5°	9673.6	7931.2	2062.9	957.5	1000.6	1259.5	1485.6	1512.3	1520.5	1551.3
7627.1	75°	5895.0	4664.2	1113.7	754.1	821.9	1076.7	1269.8	1300.6	1315.0	1352.0
3745.7	77.5°	2802.6	2019.8	634.9	587.6	661.6	879.4	1072.6	1107.5	1068.5	1089.0
1033.5	80°	947.2	750.0	400.7	447.9	505.5	686.3	858.9	893.8	811.6	807.5
343.1	82.5°	330.8	304.1	254.8	297.9	326.7	491.1	649.3	694.5	604.1	602.0
154.1	85°	129.4	123.3	141.8	162.3	195.2	302.0	427.4	450.0	371.9	300.0
45.2	87.5°	26.7	28.8	34.9	37.0	59.6	104.8	154.1	189.0	150.0	127.4
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>
4430.0
4596.4
4838.9
5118.3
5436.8
5800.5
6248.4
6735.4
7000.4
6862.8
6492.9
6116.9
5788.1
5473.8
5134.7
4773.1
4452.6
4378.6
4181.3
3836.2
3281.4
2827.3
2673.2
2547.8
2482.1
2338.3
2171.8
1970.5
1765.0
1563.6
1356.1
1072.6
799.3
573.3
295.9
117.1
0.0

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