

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: P957194

Luminaire Tested: **GALN-SB9C-840-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957194
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-SB9C-840-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 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: 66122 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

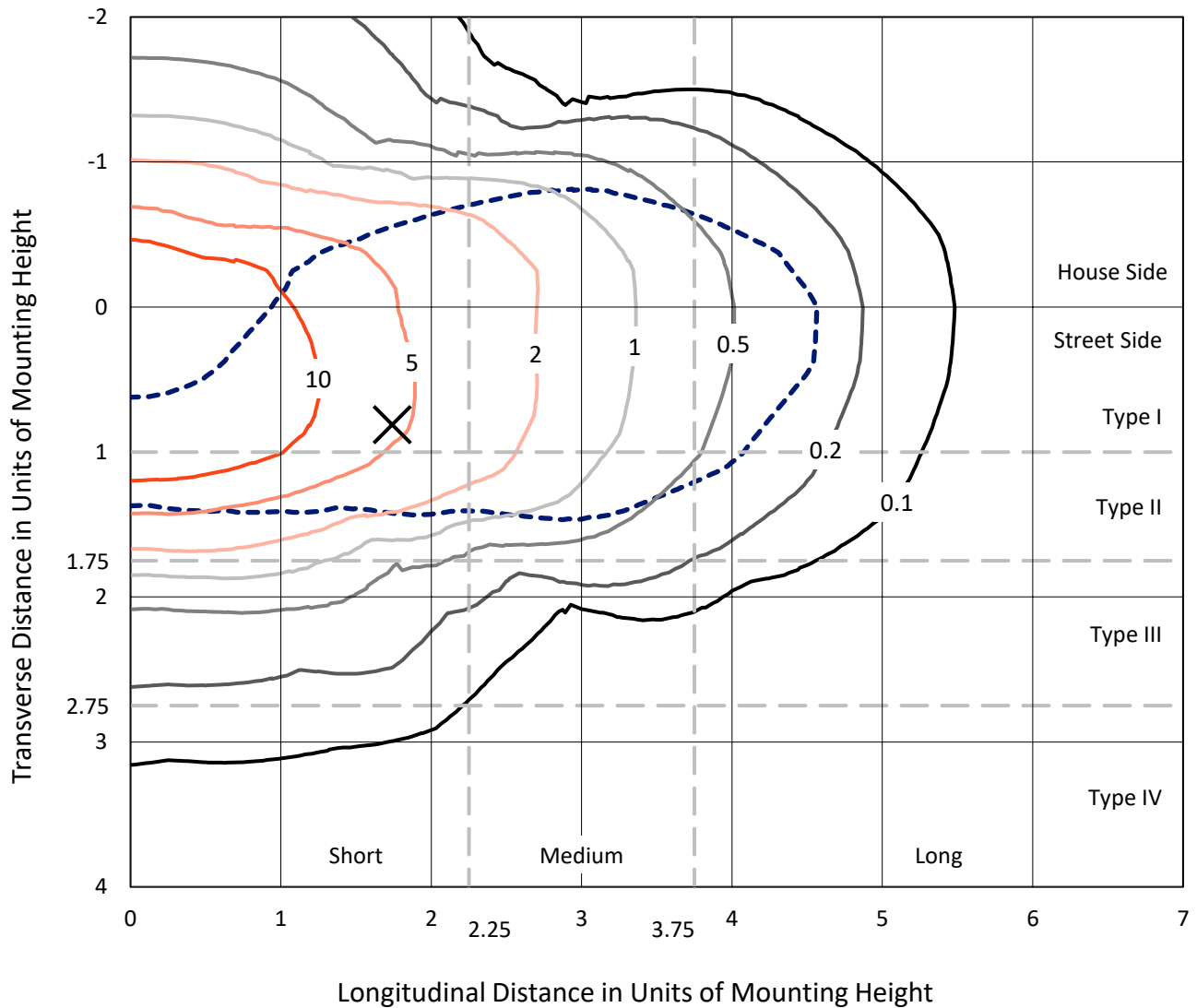
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

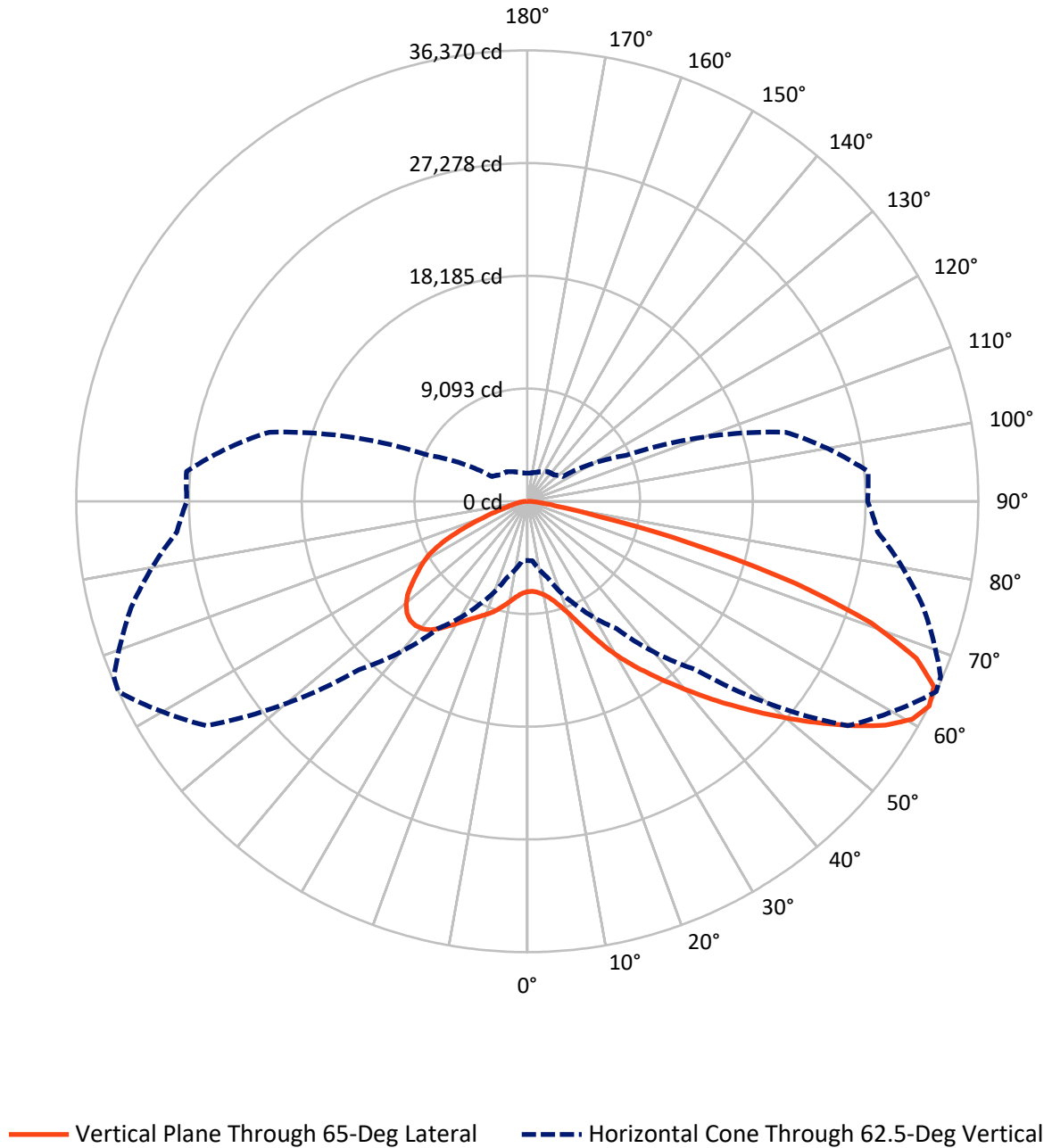
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 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	20865.2	0.0	20865.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	45256.8	0.0	45256.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	66122.0	0.0	66122.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	726.4	1.1
10°-20°	2463.4	3.7
20°-30°	4994.9	7.6
30°-40°	8643.5	13.1
40°-50°	13080.3	19.8
50°-60°	15335.8	23.2
60°-70°	12857.3	19.4
70°-80°	7098.3	10.7
80°-90°	922.0	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°	66122.0	100.0
0°-180°	66122.0	100.0

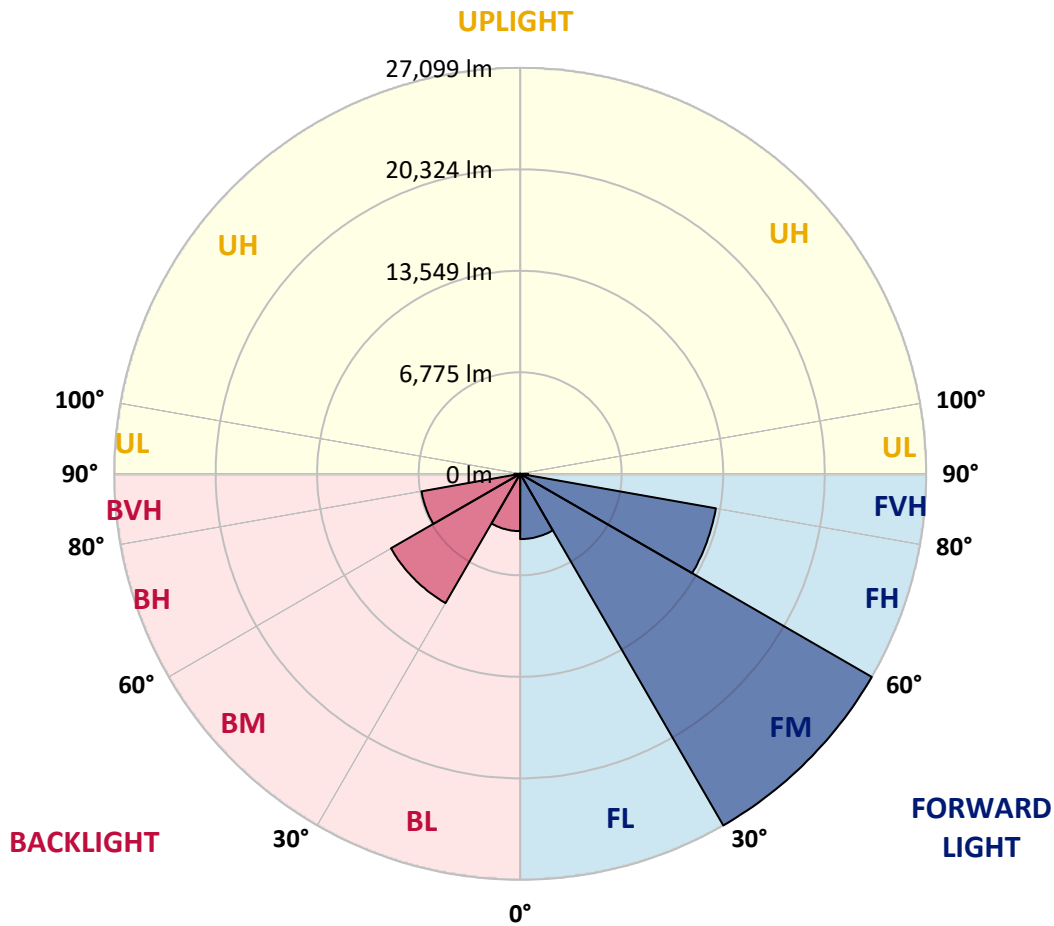


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4358.3	6.6			
FM (30°-60°)	27098.9	41.0			
FH (60°-80°)	13262.1	20.1			G5
FVH (80°-90°)	537.4	0.8			G4/750
BL (0°-30°)	3826.4	5.8	B4/5000		
BM (30°-60°)	9960.8	15.1	B5		
BH (60°-80°)	6693.4	10.1	B5		G5
BVH (80°-90°)	384.6	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	7286.4	7286.4	7286.4	7286.4	7286.4	7286.4	7286.4	7286.4	7286.4	7286.4
2.5°	7238.3	7217.7	7234.9	7234.9	7241.8	7238.3	7262.3	7269.2	7279.5	7300.1
5°	7166.3	7162.9	7193.7	7221.2	7248.6	7272.6	7303.5	7348.1	7355.0	7379.0
7.5°	7142.3	7121.7	7169.7	7204.0	7269.2	7327.5	7409.9	7485.3	7516.2	7526.5
10°	7327.5	7293.2	7337.8	7358.4	7413.3	7471.6	7567.7	7687.7	7722.0	7763.2
12.5°	7643.1	7605.4	7670.6	7701.4	7752.9	7804.4	7869.5	7986.2	8003.3	8078.8
15°	8075.4	8030.8	8071.9	8109.7	8195.4	8243.5	8308.6	8421.8	8421.8	8480.2
17.5°	8662.0	8603.7	8634.5	8648.3	8703.1	8775.2	8885.0	8984.4	9035.9	9015.3
20°	9536.8	9464.7	9464.7	9396.1	9375.5	9433.8	9577.9	9715.1	9770.0	9663.7
22.5°	10850.6	10747.7	10689.4	10456.1	10363.5	10370.4	10514.4	10682.5	10727.1	10538.5
25°	12521.3	12360.1	12281.1	11938.1	11728.8	11547.0	11660.2	11876.4	11938.1	11704.8
27.5°	14191.9	14202.2	14126.8	13715.1	13368.6	13035.9	12977.5	13204.0	13269.1	13005.0
30°	16535.0	16291.4	16147.3	15653.3	15159.3	14692.8	14452.6	14545.3	14562.4	14246.8
32.5°	18555.5	18493.8	18185.0	17752.8	17118.1	16387.4	15986.1	15838.6	15811.1	15361.7
35°	20857.4	20823.1	20497.2	19982.6	19296.5	18281.1	17557.2	17135.3	17101.0	16469.8
37.5°	23197.0	23197.0	22877.9	22315.3	21605.2	20335.9	19234.7	18565.8	18456.0	17632.7
40°	25063.1	24949.9	25008.3	24771.6	23958.5	22610.4	21097.5	20126.7	19979.2	18991.2
42.5°	26123.2	26085.4	26435.3	26699.5	26366.7	25289.6	23148.9	21817.9	21612.1	20486.9
45°	26359.9	26318.7	26943.1	27910.5	28377.0	27934.5	25378.8	23598.3	23347.9	22051.2
47.5°	25814.4	25732.1	26648.0	28174.6	29670.3	30449.0	27793.8	25529.7	25166.1	23574.3
50°	24174.7	24095.8	25481.7	27509.1	30106.0	32157.4	30414.7	27577.7	27022.0	25207.2
52.5°	20610.4	20648.1	22819.6	25605.2	29533.1	33220.9	32672.0	29735.5	29066.5	26877.9
55°	16054.7	16137.0	18805.9	21872.8	27241.5	33059.6	34212.3	31958.4	31292.9	28449.0
57.5°	11495.6	11859.2	14360.0	17396.0	22840.2	30503.9	34548.5	34071.6	33426.7	30164.3
60°	7451.0	7516.2	10089.1	13149.1	17392.6	25961.9	33865.8	35673.7	35169.4	31913.8
62.5°	4775.2	4819.8	6387.6	9197.1	12517.9	19207.3	31567.4	36370.0	36215.7	33069.9
65°	3509.4	3475.1	4291.5	6078.8	8432.1	11845.5	27104.3	36033.9	36339.2	33793.7
67.5°	2929.6	2881.6	3283.0	4209.2	6212.6	6727.2	20054.6	33848.6	34967.0	33711.4
70°	2668.9	2627.8	2871.3	3125.2	4847.3	4504.2	10109.6	29426.7	31148.8	32774.9
72.5°	2260.7	2188.7	2521.4	2775.3	3770.1	3454.5	4178.3	22603.5	24702.9	29773.2
75°	1753.0	1705.0	1989.7	2442.5	2833.6	2696.4	2641.5	13725.4	16017.0	23025.4
77.5°	1389.3	1324.2	1584.9	1903.9	2548.9	2034.3	1924.5	5910.7	8181.7	14699.6
80°	1046.3	988.0	1204.1	1506.0	1958.8	1533.4	1245.3	2411.6	3084.0	7447.6
82.5°	744.4	693.0	840.5	1104.6	1317.3	1375.6	765.0	1351.6	1519.7	2871.3
85°	476.8	446.0	562.6	693.0	837.0	885.1	466.5	706.7	775.3	1183.5
87.5°	260.7	212.7	301.9	322.5	387.6	353.3	223.0	257.3	277.9	428.8
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°
7286.4	0°	7286.4	7286.4	7286.4	7286.4	7286.4	7286.4	7286.4	7286.4	7286.4	7286.4
7300.1	2.5°	7313.8	7324.1	7358.4	7368.7	7392.7	7423.6	7444.2	7464.7	7464.7	7485.3
7409.9	5°	7413.3	7437.3	7509.3	7547.1	7608.8	7670.6	7708.3	7752.9	7780.3	7794.1
7584.8	7.5°	7605.4	7643.1	7746.0	7811.2	7917.6	8003.3	8061.6	8123.4	8137.1	8174.9
7828.4	10°	7866.1	7910.7	8027.3	8150.8	8277.8	8384.1	8439.0	8483.6	8500.8	8507.6
8140.5	12.5°	8164.6	8229.7	8380.7	8531.6	8665.4	8758.0	8771.8	8761.5	8713.4	8672.3
8524.8	15°	8531.6	8589.9	8758.0	8922.7	9053.1	9070.2	8984.4	8929.6	8871.2	8861.0
8953.6	17.5°	8970.7	9001.6	9156.0	9317.2	9327.5	9269.2	9142.3	9090.8	9035.9	8998.2
9512.7	20°	9481.9	9471.6	9581.4	9650.0	9577.9	9399.5	9207.4	9121.7	9066.8	9022.2
10198.8	22.5°	10092.5	10013.6	9999.9	9982.7	9790.6	9416.7	9156.0	9046.2	8960.4	8898.7
11155.9	25°	10981.0	10679.1	10469.9	10353.2	9921.0	9324.1	8991.3	8747.7	8586.5	8480.2
12325.7	27.5°	12092.5	11584.8	11056.5	10771.7	9921.0	9135.4	8593.4	8198.9	7934.7	7824.9
13457.8	30°	13152.5	12620.8	11842.0	11276.0	9897.0	8826.6	7951.9	7403.0	7094.3	6984.5
14425.2	32.5°	14058.1	13478.4	12675.7	11828.3	9838.6	8325.8	7156.0	6548.8	6250.4	6120.0
15382.3	35°	14898.6	14281.1	13512.7	12435.5	9684.3	7591.7	6281.2	5818.1	5485.4	5276.1
16356.6	37.5°	15759.7	15025.5	14305.1	12984.4	9406.4	6734.0	5608.8	5214.3	4823.3	4542.0
17392.6	40°	16696.2	15818.0	15152.5	13310.3	8950.1	5917.6	5087.4	4727.2	4312.1	4013.7
18586.4	42.5°	17790.5	16768.2	16095.9	13478.4	8325.8	5337.8	4747.8	4394.5	4003.4	3759.8
19866.0	45°	18932.9	17814.5	16956.9	13475.0	7629.4	5066.8	4638.0	4288.1	3855.9	3602.0
21179.8	47.5°	20130.1	18908.9	17701.3	13255.4	7025.6	5104.6	4576.3	4058.3	3581.4	3334.4
22507.4	50°	21330.8	20106.1	18421.7	12843.7	6768.4	5022.2	4346.4	3735.8	3173.2	2950.2
23752.7	52.5°	22521.2	21378.8	19042.6	12257.1	6507.6	4716.9	4051.4	3317.3	3005.1	2850.7
25039.1	55°	23718.4	22637.8	19718.4	11402.9	5855.8	4360.2	3557.4	3159.5	2871.3	2730.7
26298.1	57.5°	24919.1	24092.3	20359.9	10548.8	5036.0	3921.0	3286.4	2967.4	2737.5	2617.5
27351.3	60°	26167.8	25756.1	21022.0	9763.2	4226.4	3358.4	3087.4	2813.0	2579.7	2445.9
28363.3	62.5°	27454.2	27588.0	21540.0	8751.2	3481.9	3015.4	2909.1	2627.8	2401.3	2274.4
29200.3	65°	28750.9	29354.7	21879.7	7348.1	2823.3	2689.5	2716.9	2425.4	2195.5	2085.7
29814.4	67.5°	29728.6	30627.4	21783.6	5560.8	2315.6	2380.8	2476.8	2212.7	1996.5	1910.8
29714.9	70°	29838.4	30476.5	20836.8	3807.8	1938.2	2078.9	2209.2	2003.4	1780.4	1718.7
28315.3	72.5°	28377.0	28418.2	18198.7	2487.1	1639.8	1825.0	1927.9	1790.7	1574.6	1512.8
24771.6	75°	24545.1	23502.3	13361.8	1639.8	1372.2	1567.7	1663.8	1567.7	1358.5	1372.2
18534.9	77.5°	18596.7	16644.7	8113.1	1166.4	1145.8	1317.3	1447.7	1379.1	1200.7	1348.2
9320.6	80°	9581.4	9005.0	3619.2	871.3	905.6	1053.2	1190.4	1101.2	950.2	905.6
2082.3	82.5°	2195.5	2552.3	1427.1	624.3	655.2	758.1	909.1	826.7	682.7	576.3
867.9	85°	768.4	840.5	631.2	391.1	384.2	473.4	617.5	552.3	463.1	370.5
367.1	87.5°	243.6	319.0	236.7	157.8	164.7	212.7	284.7	260.7	216.1	140.7
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>
7286.4
7485.3
7800.9
8161.1
8490.5
8672.3
8861.0
9001.6
9025.6
8919.3
8521.3
7879.8
7049.7
6185.2
5344.7
4617.4
4072.0
3807.8
3643.2
3368.7
2963.9
2850.7
2716.9
2596.9
2435.6
2271.0
2082.3
1914.2
1722.1
1509.4
1324.2
1186.9
826.7
569.5
391.1
147.5
0.0

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