

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: P957238

Luminaire Tested: **GALN-SB9C-927-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-927-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42626 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

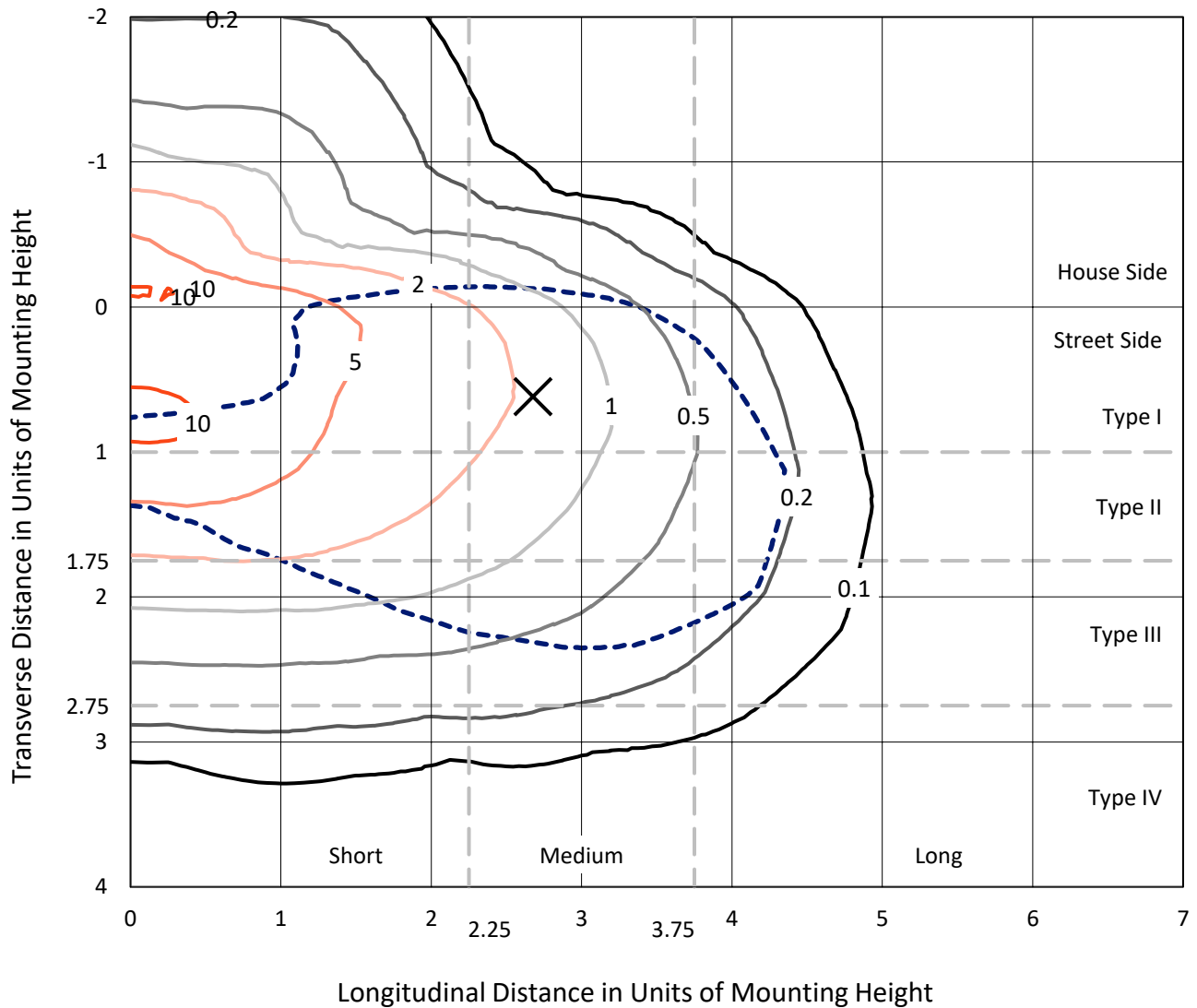
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

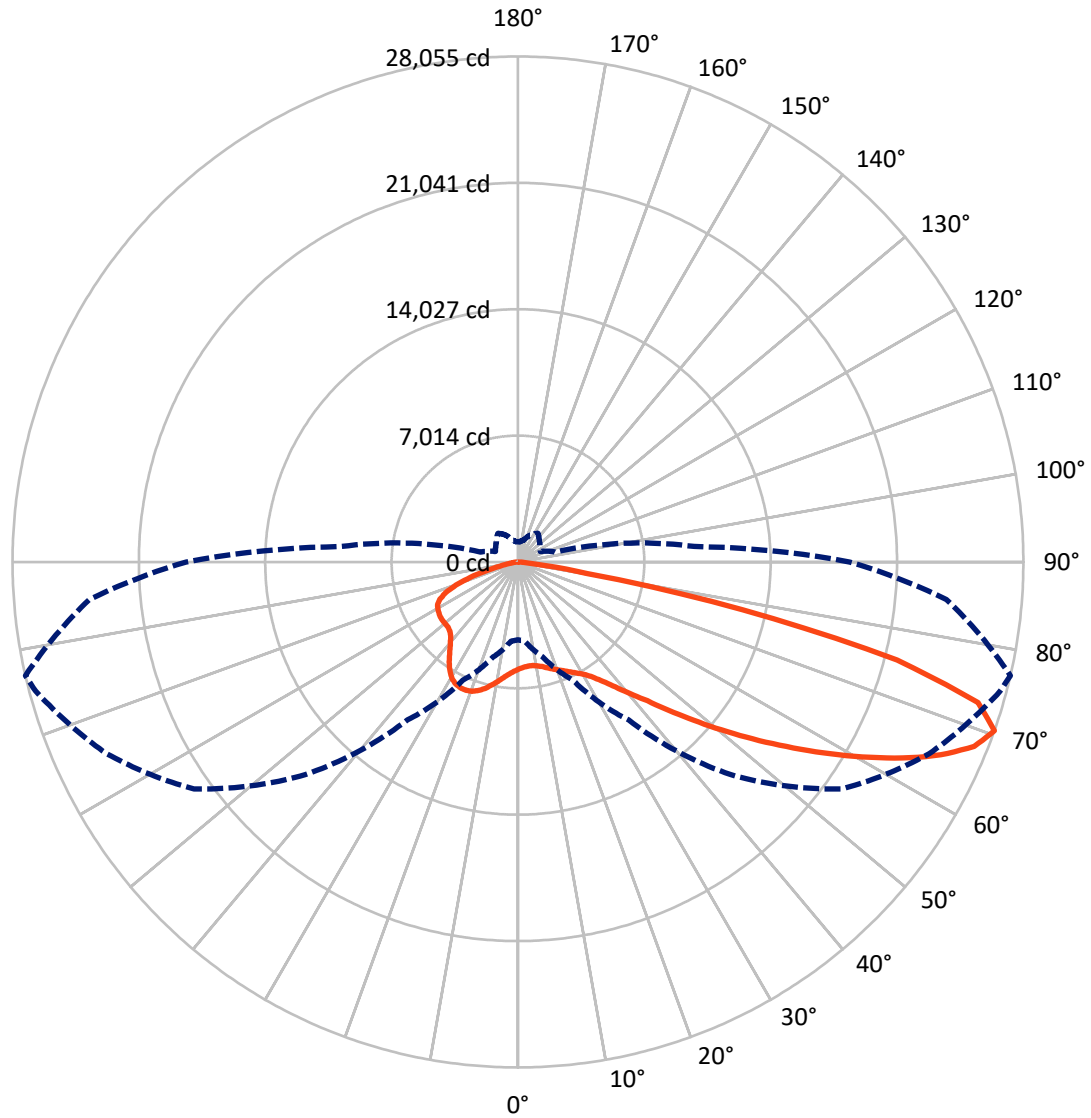
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9334.4	0.0	9334.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	33291.6	0.0	33291.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	42626.0	0.0	42626.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.2	1.3
10°-20°	1636.9	3.8
20°-30°	2799.3	6.6
30°-40°	4501.5	10.6
40°-50°	7028.1	16.5
50°-60°	9387.8	22.0
60°-70°	10005.9	23.5
70°-80°	6159.6	14.5
80°-90°	539.7	1.3
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°	42626.0	100.0
0°-180°	42626.0	100.0



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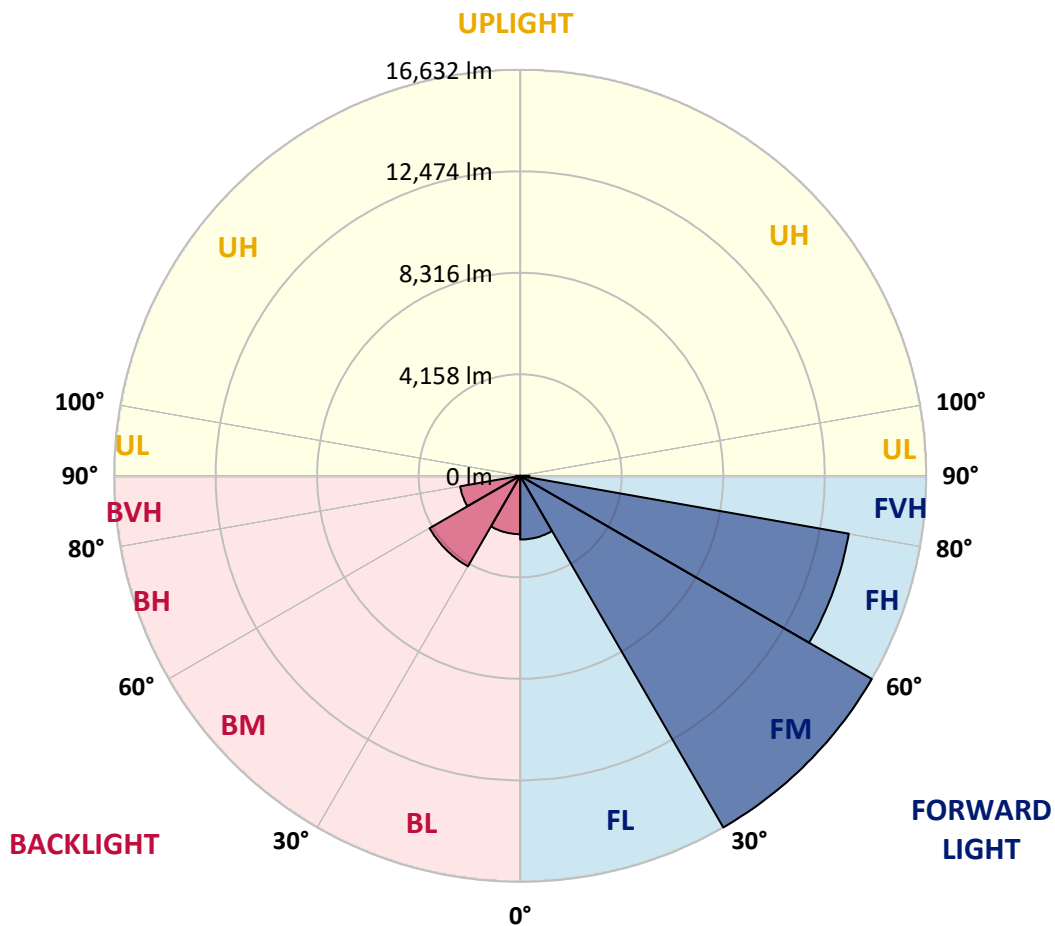
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2611.5	6.1			
FM (30°-60°)	16631.7	39.0			
FH (60°-80°)	13670.9	32.1			G5
FVH (80°-90°)	377.4	0.9			G3/500
BL (0°-30°)	2391.8	5.6	B3/2500		
BM (30°-60°)	4285.6	10.1	B3/5000		
BH (60°-80°)	2494.7	5.9	B3/2500		G3/2500
BVH (80°-90°)	162.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5946.7	5946.7	5946.7	5946.7	5946.7	5946.7	5946.7	5946.7	5946.7	5946.7
2.5°	5481.7	5479.5	5507.9	5516.6	5569.0	5606.2	5676.0	5750.2	5846.3	5857.2
5°	5165.2	5165.2	5197.9	5232.8	5300.5	5374.7	5481.7	5610.5	5776.4	5802.6
7.5°	4896.7	4914.1	4942.5	5010.2	5088.8	5195.7	5359.5	5542.8	5761.2	5802.6
10°	4680.5	4700.2	4735.1	4789.7	4907.6	5056.0	5270.0	5505.7	5798.3	5863.8
12.5°	4612.9	4632.5	4652.1	4693.6	4802.8	4977.4	5232.8	5523.2	5887.8	5953.3
15°	4770.0	4794.0	4778.8	4767.9	4824.6	4984.0	5250.3	5586.5	5999.1	6093.0
17.5°	5132.4	5141.2	5106.2	5003.6	4994.9	5080.0	5333.3	5673.8	6138.8	6241.4
20°	5717.5	5702.2	5630.2	5427.1	5311.4	5294.0	5475.2	5804.8	6282.9	6392.1
22.5°	6512.1	6494.7	6350.6	6029.7	5772.1	5601.8	5680.4	5975.1	6444.5	6566.7
25°	7503.3	7479.2	7267.5	6830.9	6431.4	6010.0	5959.8	6200.0	6643.1	6756.6
27.5°	8660.3	8640.6	8411.4	7835.1	7258.7	6568.9	6306.9	6464.1	6850.5	6979.3
30°	9904.6	9961.4	9555.4	8935.4	8206.2	7298.0	6774.1	6789.4	7119.0	7234.7
32.5°	11367.3	11465.5	10976.5	10190.6	9195.1	8090.5	7363.5	7243.5	7509.8	7605.9
35°	12816.9	12928.2	12522.2	11653.3	10507.2	9024.9	7979.2	7765.2	8029.4	8134.2
37.5°	14070.0	14218.4	14008.8	13253.5	11910.9	10151.3	8782.5	8378.7	8669.0	8800.0
40°	15058.9	15285.9	15270.7	14799.1	13565.7	11517.9	9802.0	9136.2	9463.7	9605.6
42.5°	15862.3	16058.8	16229.0	16205.0	15292.5	13070.1	11000.6	10120.8	10369.6	10533.4
45°	16416.8	16626.4	16993.1	17388.2	16953.8	14731.4	12373.7	11288.7	11515.8	11762.4
47.5°	16912.3	17150.3	17626.2	18252.8	18364.1	16399.3	13877.9	12648.8	12856.2	13111.6
50°	16956.0	17161.2	17899.1	18787.6	19366.1	18001.7	15493.3	14174.8	14369.0	14641.9
52.5°	15901.6	16224.7	17512.7	18772.3	19826.8	19342.1	17097.9	15761.9	15980.2	16307.6
55°	12343.1	12816.9	16379.7	18187.3	19663.0	20208.8	18623.9	17449.4	17728.8	18071.6
57.5°	10631.6	10839.0	13002.4	17121.9	18916.4	20433.6	19911.9	19154.4	19604.1	19979.6
60°	9555.4	9727.8	11007.1	15465.0	17934.0	20077.8	20907.4	20743.6	21520.8	21968.4
62.5°	8402.7	8566.4	9730.0	12912.9	16676.6	19486.2	21536.1	22210.7	23485.6	23974.6
65°	7258.7	7398.5	8514.0	10849.9	15078.5	18894.6	21861.4	23479.0	25304.1	25810.6
67.5°	5983.8	6099.5	7154.0	9153.7	13135.6	18084.7	22022.9	24476.7	26886.8	27321.3
70°	4318.1	4407.6	5497.0	7239.1	10697.1	16691.8	21957.4	25184.0	27707.7	28054.8
72.5°	2041.2	2122.0	3401.2	4700.2	7555.6	13980.5	20632.3	24623.0	26873.7	26701.3
75°	1089.4	1159.2	1953.9	2578.2	3990.7	9583.7	16884.0	21210.8	22566.5	21728.2
77.5°	737.9	792.5	1209.4	1547.8	1822.9	4549.5	10852.1	14685.6	14128.9	12744.8
80°	585.1	641.8	991.1	1047.9	882.0	1643.9	4484.1	6798.1	4883.6	3905.5
82.5°	449.7	513.0	833.9	759.7	480.3	674.6	1305.5	2150.3	1250.9	951.8
85°	275.1	342.7	654.9	484.6	270.7	307.8	443.2	598.2	382.0	318.7
87.5°	139.7	196.5	331.8	176.8	122.3	72.0	117.9	117.9	100.4	87.3
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°
5946.7	0°	5946.7	5946.7	5946.7	5946.7	5946.7	5946.7	5946.7	5946.7	5946.7	5946.7
5916.2	2.5°	5968.5	6012.2	6086.4	6156.3	6210.9	6263.3	6315.7	6344.0	6352.8	6387.7
5948.9	5°	6038.4	6119.2	6263.3	6398.6	6483.8	6536.1	6573.3	6595.1	6599.5	6610.4
6038.4	7.5°	6167.2	6296.0	6496.9	6632.2	6695.5	6691.1	6675.9	6621.3	6599.5	6579.8
6169.4	10°	6348.4	6518.7	6765.4	6859.2	6819.9	6715.2	6579.8	6420.4	6346.2	6274.2
6348.4	12.5°	6573.3	6789.4	7031.7	7027.3	6833.0	6564.5	6250.2	6005.7	5850.7	5739.3
6568.9	15°	6846.1	7095.0	7280.6	7132.1	6706.4	6224.0	5763.3	5444.6	5304.9	5182.6
6791.6	17.5°	7127.8	7394.1	7479.2	7099.4	6387.7	5719.7	5197.9	4946.9	4809.3	4743.8
7031.7	20°	7402.8	7667.0	7597.1	6911.6	5903.1	5147.7	4682.7	4545.2	4516.8	4532.1
7265.3	22.5°	7693.2	7929.0	7621.1	6549.2	5285.2	4562.6	4307.2	4311.6	4374.9	4420.7
7509.8	25°	7990.1	8149.4	7557.8	6025.3	4621.6	4132.6	4069.3	4139.1	4263.6	4353.1
7784.9	27.5°	8276.1	8345.9	7420.3	5376.9	4051.8	3824.8	3835.7	3979.8	4167.5	4291.9
8118.9	30°	8599.2	8520.6	7156.1	4647.8	3656.7	3560.6	3652.3	3820.4	4008.1	4119.5
8540.2	32.5°	8963.7	8671.2	6737.0	3973.2	3377.2	3348.8	3499.5	3608.6	3691.6	3724.3
9099.1	35°	9417.8	8883.0	6200.0	3499.5	3126.2	3193.8	3337.9	3283.4	3250.6	3233.1
9850.1	37.5°	10007.2	9168.9	5571.2	3191.7	2923.1	3082.5	3141.5	2971.2	2842.4	2779.1
10760.4	40°	10716.8	9588.1	4966.5	2953.7	2794.3	2986.5	2883.9	2678.6	2514.9	2425.4
11784.3	42.5°	11504.8	10026.9	4457.9	2774.7	2722.3	2907.9	2693.9	2449.4	2185.3	2156.9
13004.6	45°	12332.2	10478.8	4110.7	2637.2	2687.4	2840.2	2584.8	2189.6	2001.9	2117.6
14229.3	47.5°	13159.6	10893.6	3901.2	2534.6	2669.9	2763.8	2488.7	2045.5	1912.4	2080.5
15541.4	50°	14080.9	11264.7	3807.3	2460.3	2650.3	2733.2	2344.6	2008.4	1818.5	1929.8
16899.2	52.5°	14995.6	11552.9	3737.4	2386.1	2621.9	2709.2	2274.8	1964.8	1705.0	1711.5
18265.8	55°	15908.1	11740.6	3661.0	2287.9	2558.6	2656.8	2268.2	1916.7	1619.8	1589.3
19711.0	57.5°	16881.8	11847.6	3567.2	2178.7	2449.4	2523.6	2261.7	1879.6	1593.6	1543.4
21189.0	60°	17872.9	12004.8	3444.9	2045.5	2303.2	2364.3	2246.4	1866.5	1578.4	1493.2
22581.8	62.5°	18761.4	12059.3	3298.6	1918.9	2115.4	2207.1	2213.6	1855.6	1536.9	1390.6
23738.8	65°	19344.3	11823.6	3043.2	1774.8	1912.4	2045.5	2150.3	1818.5	1462.7	1316.4
24310.8	67.5°	19320.3	11151.2	2643.7	1589.3	1715.9	1866.5	2058.6	1755.2	1373.2	1224.7
23878.6	70°	18420.8	9823.9	2137.2	1373.2	1499.8	1674.4	1940.8	1661.3	1266.2	1124.3
21232.7	72.5°	15799.0	7688.8	1552.2	1119.9	1248.7	1475.8	1787.9	1547.8	1157.0	1034.8
15692.0	75°	11286.5	4866.1	1052.2	860.1	971.5	1250.9	1598.0	1414.6	1056.6	1039.1
7859.1	77.5°	5765.5	2325.0	696.4	628.7	676.8	986.8	1342.6	1264.0	1071.9	858.0
2235.5	80°	1875.3	858.0	438.8	427.9	449.7	657.1	1039.1	1037.0	812.1	582.9
541.4	82.5°	598.2	368.9	286.0	275.1	264.2	412.6	724.8	820.8	548.0	368.9
194.3	85°	238.0	220.5	168.1	155.0	111.3	194.3	379.9	545.8	408.2	266.3
50.2	87.5°	87.3	87.3	45.8	32.7	24.0	65.5	102.6	163.7	233.6	137.5
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>
5946.7
6407.3
6627.8
6584.2
6252.3
5713.1
5169.5
4763.5
4525.5
4431.7
4377.1
4322.5
4145.7
3741.8
3250.6
2794.3
2432.0
2185.3
2178.7
2159.1
2012.8
1757.4
1611.1
1550.0
1499.8
1390.6
1316.4
1231.3
1137.4
1028.2
980.2
764.1
515.2
366.8
272.9
135.4
0.0

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