

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: P944819

Luminaire Tested: **GALN-SB9D-940-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9D-940-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66384 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

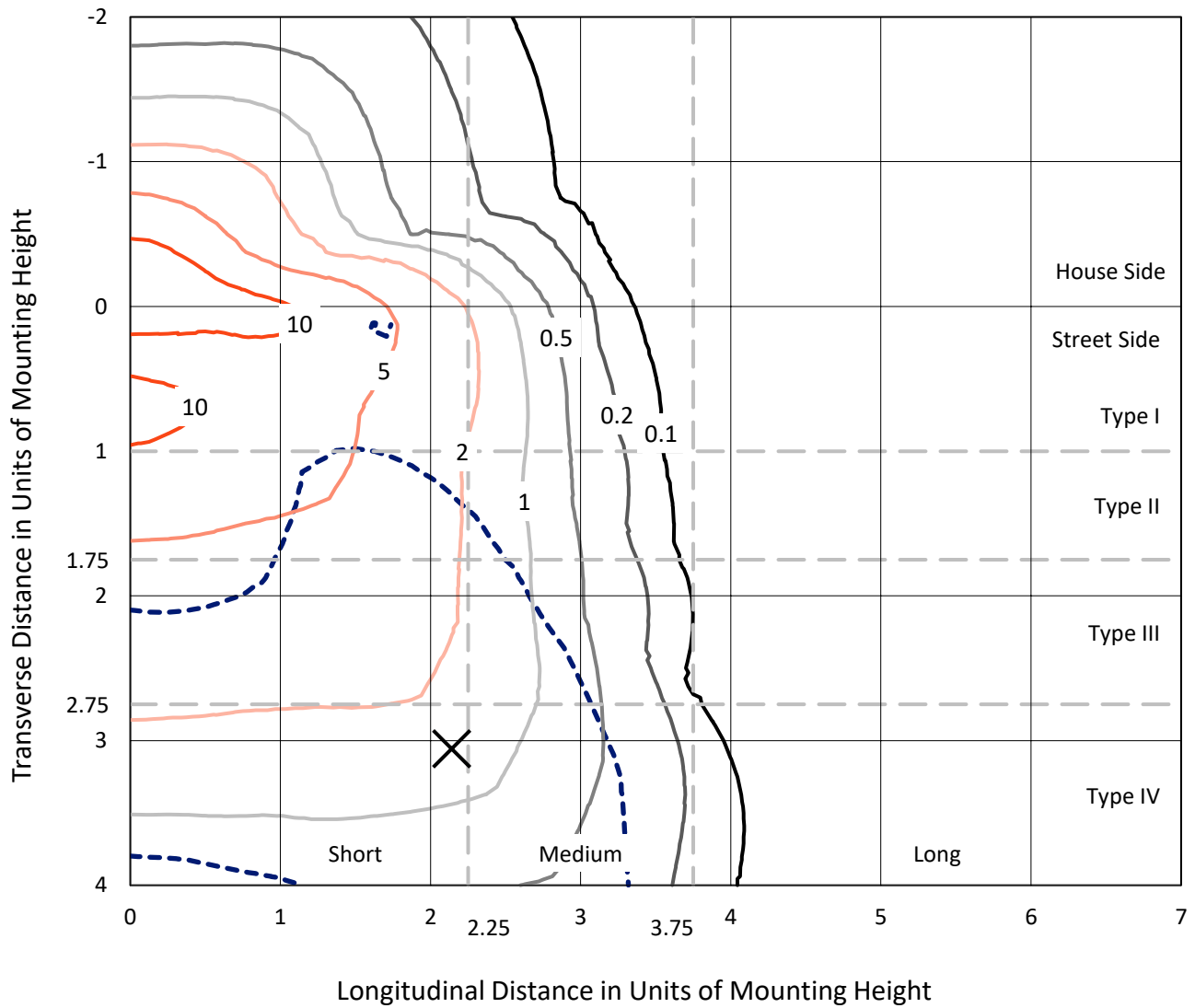
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

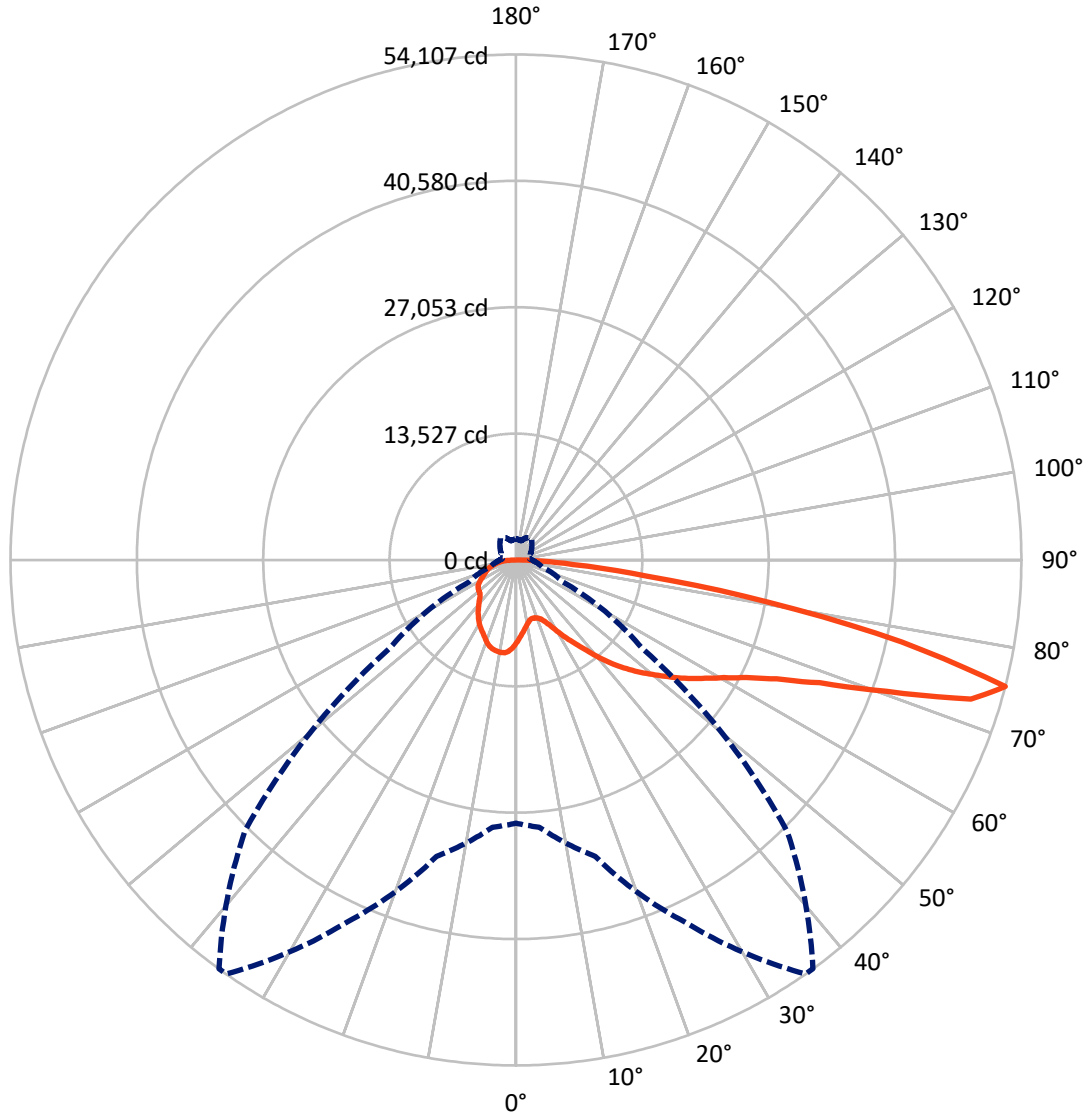
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15797.7	0.0	15797.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	50586.3	0.0	50586.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	66384.0	0.0	66384.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	837.5	1.3
10°-20°	2415.9	3.6
20°-30°	4056.9	6.1
30°-40°	6304.9	9.5
40°-50°	9358.2	14.1
50°-60°	12919.5	19.5
60°-70°	15674.3	23.6
70°-80°	12953.6	19.5
80°-90°	1863.1	2.8
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°	66384.0	100.0
0°-180°	66384.0	100.0

Coefficient of Utilization



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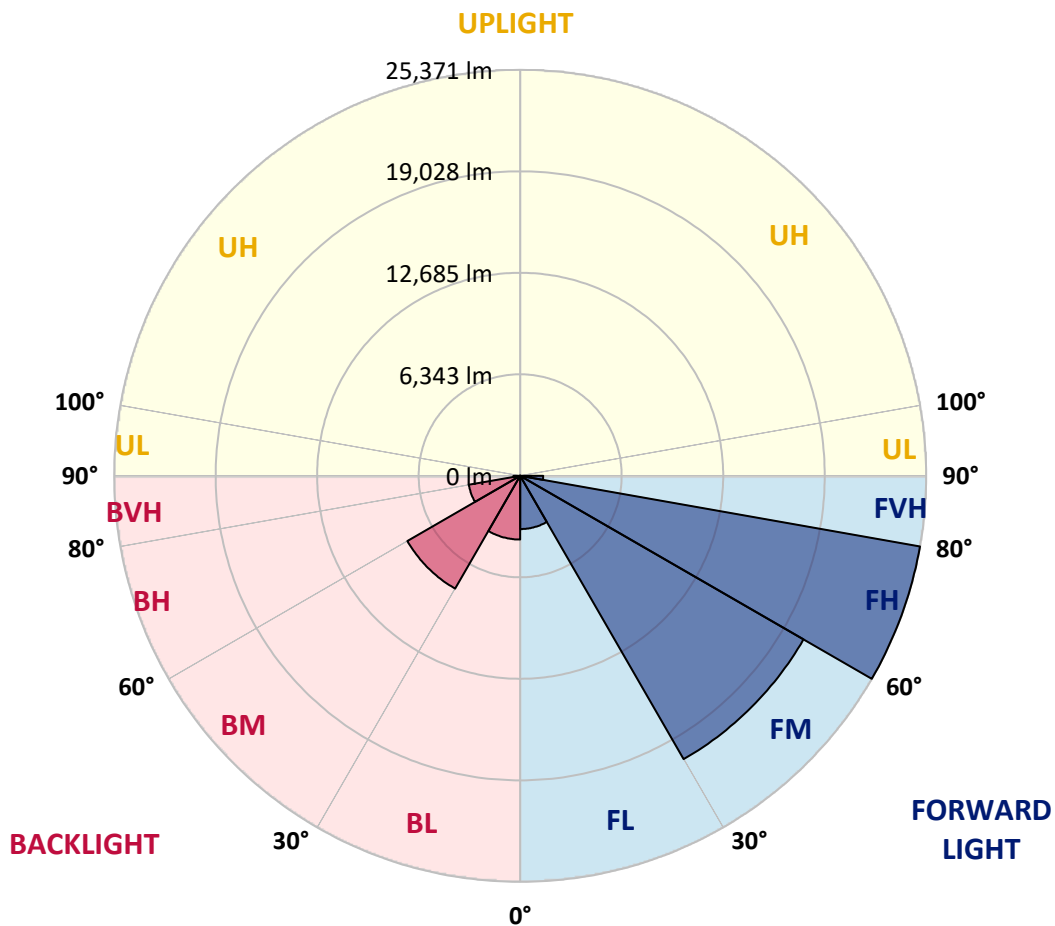
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3329.0	5.0			
FM (30°-60°)	20442.7	30.8			
FH (60°-80°)	25371.0	38.2			G5
FVH (80°-90°)	1443.6	2.2			G5
BL (0°-30°)	3981.2	6.0	B4/5000		
BM (30°-60°)	8139.9	12.3	B4/8500		
BH (60°-80°)	3257.0	4.9	B4/5000		G4/5000
BVH (80°-90°)	419.5	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	8846.1	8846.1	8846.1	8846.1	8846.1	8846.1	8846.1	8846.1	8846.1	8846.1
2.5°	8157.1	8207.3	8228.9	8218.1	8271.9	8264.7	8340.1	8433.4	8562.6	8688.2
5°	7529.1	7582.9	7629.6	7672.6	7776.7	7809.0	7927.4	8106.8	8343.7	8584.1
7.5°	6944.1	6990.8	7062.5	7141.5	7317.3	7349.6	7547.0	7826.9	8157.1	8508.8
10°	6466.8	6513.5	6588.8	6678.5	6897.5	6936.9	7188.1	7561.4	7992.0	8437.0
12.5°	6262.3	6276.6	6319.7	6409.4	6599.6	6624.7	6901.0	7328.1	7830.5	8383.2
15°	6251.5	6280.2	6283.8	6330.4	6488.3	6499.1	6753.9	7177.4	7730.0	8372.4
17.5°	6359.2	6380.7	6348.4	6377.1	6509.9	6527.8	6728.8	7105.6	7697.7	8419.1
20°	6646.3	6664.2	6567.3	6527.8	6624.7	6639.1	6836.5	7152.3	7730.0	8516.0
22.5°	7256.3	7267.1	7030.2	6868.7	6875.9	6883.1	7055.4	7342.5	7855.6	8691.8
25°	8207.3	8200.2	7823.3	7511.1	7331.7	7292.2	7407.1	7651.1	8067.4	8925.1
27.5°	9319.8	9266.0	8889.2	8422.7	8031.5	7974.1	7948.9	8053.0	8368.8	9233.7
30°	10575.9	10525.6	10120.1	9510.0	8968.1	8874.8	8638.0	8584.1	8817.4	9653.6
32.5°	11953.9	11921.6	11437.2	10697.9	9973.0	9865.3	9467.0	9323.4	9506.4	10288.8
35°	13109.5	13080.8	12678.8	11918.0	11031.6	10898.8	10493.3	10331.8	10425.1	11103.4
37.5°	14153.8	14139.4	13794.9	13195.6	12280.5	12119.0	11663.2	11609.4	11591.5	12176.4
40°	15122.7	15086.8	14728.0	14412.2	13733.9	13586.8	13184.8	13138.2	13001.8	13497.1
42.5°	16195.8	16102.4	15582.1	15434.9	15251.9	15129.9	14889.5	14896.6	14595.2	14986.4
45°	17071.4	17017.6	16482.8	16396.7	16594.1	16543.9	16752.0	16805.8	16220.9	16547.4
47.5°	18011.6	17961.4	17509.2	17448.2	17982.9	17997.3	18733.0	18750.9	17807.1	18169.5
50°	19170.8	19099.0	18650.4	18725.8	19325.1	19378.9	20724.7	20602.7	19267.7	19816.7
52.5°	19935.2	19978.2	19881.3	20003.3	20821.6	20871.8	22684.1	22371.9	20713.9	21442.4
55°	20498.6	20584.7	20886.2	21166.1	22400.6	22450.8	24532.3	24055.0	21912.5	22949.7
57.5°	21223.5	21101.5	21664.9	22210.4	23900.7	24033.4	26330.2	25677.1	22974.8	24248.8
60°	22264.2	22178.1	22615.9	23423.4	25580.2	25791.9	28232.2	27137.7	23753.5	25278.7
62.5°	24374.4	24159.1	24227.2	24941.4	27697.5	27977.4	30378.2	28411.6	24141.1	25680.7
65°	27528.8	27159.2	26814.7	27309.9	30679.7	30956.0	32800.6	29412.9	23997.6	24901.9
67.5°	31501.5	31135.5	30712.0	31178.5	35072.3	35291.2	35790.0	29976.3	22867.1	21901.8
70°	34778.0	34641.6	35147.6	37067.6	42088.1	42095.3	39622.7	29509.8	19770.1	15528.3
72.5°	34343.7	34261.2	36927.6	42863.3	50930.7	50740.5	43250.9	25978.5	13317.6	7005.1
75°	28174.8	28709.5	32840.1	42759.2	54106.7	54081.5	41029.5	16515.1	5508.6	2903.2
77.5°	15108.4	15955.3	21320.4	31569.7	42238.9	42874.1	28845.9	5777.8	2364.9	1858.9
80°	4927.3	5666.5	8498.0	16073.7	27446.3	27327.9	12363.0	2268.1	1618.5	1317.0
82.5°	2092.2	2178.3	3796.8	7590.1	14085.6	13866.7	3936.8	1302.7	1137.6	900.8
85°	818.2	915.1	1675.9	3509.7	6100.8	5968.0	1421.1	646.0	728.5	588.5
87.5°	269.2	326.6	599.3	1202.2	1898.4	1830.2	348.1	222.5	315.8	269.2
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°
8846.1	0°	8846.1	8846.1	8846.1	8846.1	8846.1	8846.1	8846.1	8846.1	8846.1	8846.1
8871.2	2.5°	8921.5	8978.9	9047.1	9147.6	9233.7	9305.5	9380.8	9427.5	9445.4	9499.3
8885.6	5°	8986.1	9111.7	9280.3	9445.4	9606.9	9703.8	9789.9	9833.0	9872.5	9901.2
8925.1	7.5°	9093.7	9255.2	9520.8	9736.1	9872.5	9951.4	10008.9	9994.5	10008.9	10016.0
8968.1	10°	9187.0	9413.1	9728.9	9933.5	10037.6	10041.2	10026.8	9976.6	9951.4	9955.0
9032.7	12.5°	9298.3	9549.5	9890.4	10062.7	10091.4	10012.4	9951.4	9865.3	9833.0	9818.7
9129.6	15°	9449.0	9736.1	10066.3	10130.9	10059.1	9958.6	9854.5	9714.6	9642.8	9585.4
9294.7	17.5°	9632.0	9947.8	10202.6	10156.0	10001.7	9836.6	9667.9	9456.2	9309.1	9248.1
9520.8	20°	9886.8	10170.3	10306.7	10102.2	9868.9	9617.7	9330.6	9072.2	8935.8	8874.8
9807.9	22.5°	10195.5	10468.2	10407.2	10008.9	9678.7	9276.8	8917.9	8727.7	8659.5	8616.4
10177.5	25°	10565.1	10798.4	10479.0	9872.5	9366.5	8824.6	8548.3	8487.2	8455.0	8422.7
10629.7	27.5°	11046.0	11171.6	10532.8	9671.5	8878.4	8343.7	8243.2	8254.0	8243.2	8189.4
11257.7	30°	11681.2	11656.1	10583.0	9344.9	8318.6	7909.5	7916.6	7963.3	7970.5	7934.6
12133.4	32.5°	12517.3	12262.5	10608.2	8921.5	7783.9	7529.1	7536.2	7586.5	7622.4	7561.4
13278.1	35°	13529.4	12969.5	10568.7	8390.4	7371.2	7166.6	7112.8	7127.1	7137.9	7080.5
14667.0	37.5°	14710.0	13762.6	10392.8	7801.8	7030.2	6811.3	6696.5	6599.6	6542.2	6488.3
16238.8	40°	16005.6	14627.5	10069.9	7227.6	6649.8	6434.5	6262.3	6079.2	5885.4	5813.7
17904.0	42.5°	17362.1	15517.5	9678.7	6678.5	6212.0	6036.2	5853.2	5587.6	5296.9	5149.8
19633.7	45°	18768.8	16429.0	9294.7	6136.7	5763.4	5688.1	5476.3	5156.9	4841.1	4654.5
21367.1	47.5°	20146.9	17290.3	8731.3	5591.2	5343.6	5426.1	5261.0	4966.7	4615.1	4320.8
23086.0	50°	21463.9	18097.8	7809.0	5038.5	5002.6	5347.1	5189.2	4765.8	4363.8	3987.0
24772.7	52.5°	22770.2	18750.9	6628.3	4536.1	4819.6	5325.6	5095.9	4629.4	4137.8	3743.0
26358.9	55°	23879.1	19088.2	5490.7	4105.5	4554.0	5142.6	4984.7	4467.9	3818.4	3398.5
27446.3	57.5°	24510.7	18815.5	4543.3	3682.0	4188.0	4841.1	4794.5	4123.4	3438.0	3115.0
27658.0	60°	24238.0	17710.2	3768.1	3312.4	3839.9	4514.6	4464.3	3782.5	3147.3	2842.2
26524.0	62.5°	22734.3	15603.6	3154.5	2989.4	3524.1	4180.8	4134.2	3520.5	2924.8	2630.5
23513.1	65°	19705.5	12693.2	2677.2	2720.2	3204.7	3778.9	3847.1	3301.6	2748.9	2461.8
18191.1	67.5°	15029.4	9194.2	2303.9	2487.0	2892.5	3384.1	3581.5	3143.7	2601.8	2329.1
10525.6	70°	8566.2	5221.5	1988.1	2260.9	2616.2	3018.1	3377.0	3018.1	2443.9	2217.8
3944.0	72.5°	3247.8	2397.2	1719.0	2034.8	2350.6	2709.5	3150.9	2820.7	2260.9	2092.2
2038.4	75°	1733.3	1460.6	1446.2	1769.2	2045.6	2408.0	2867.4	2626.9	2124.5	2210.6
1410.4	77.5°	1180.7	1033.5	1209.4	1514.4	1711.8	2074.3	2565.9	2332.6	1841.0	1833.8
976.1	80°	818.2	732.1	983.3	1220.2	1324.2	1744.1	2239.3	2002.5	1500.1	1399.6
602.9	82.5°	491.7	477.3	735.7	911.5	936.6	1345.8	1855.4	1679.5	1227.3	1069.4
358.9	85°	269.2	283.5	470.1	534.7	545.5	940.2	1453.4	1299.1	943.8	793.1
129.2	87.5°	75.4	96.9	172.3	211.7	262.0	488.1	864.9	771.6	473.7	330.2
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>
8846.1
9495.7
9908.4
10026.8
9962.2
9811.5
9603.3
9251.6
8867.6
8623.6
8422.7
8200.2
7952.5
7590.1
7120.0
6524.2
5846.0
5167.7
4640.2
4288.5
3954.7
3699.9
3362.6
3071.9
2799.2
2583.9
2415.2
2286.0
2189.1
2063.5
2282.4
1690.3
1338.6
1076.6
800.3
330.2
0.0

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