

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: P943869

Luminaire Tested: **GALN-SB8C-750-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943869
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-SB8C-750-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63324 lumens
Efficiency: N/A
Efficacy: 158.4 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

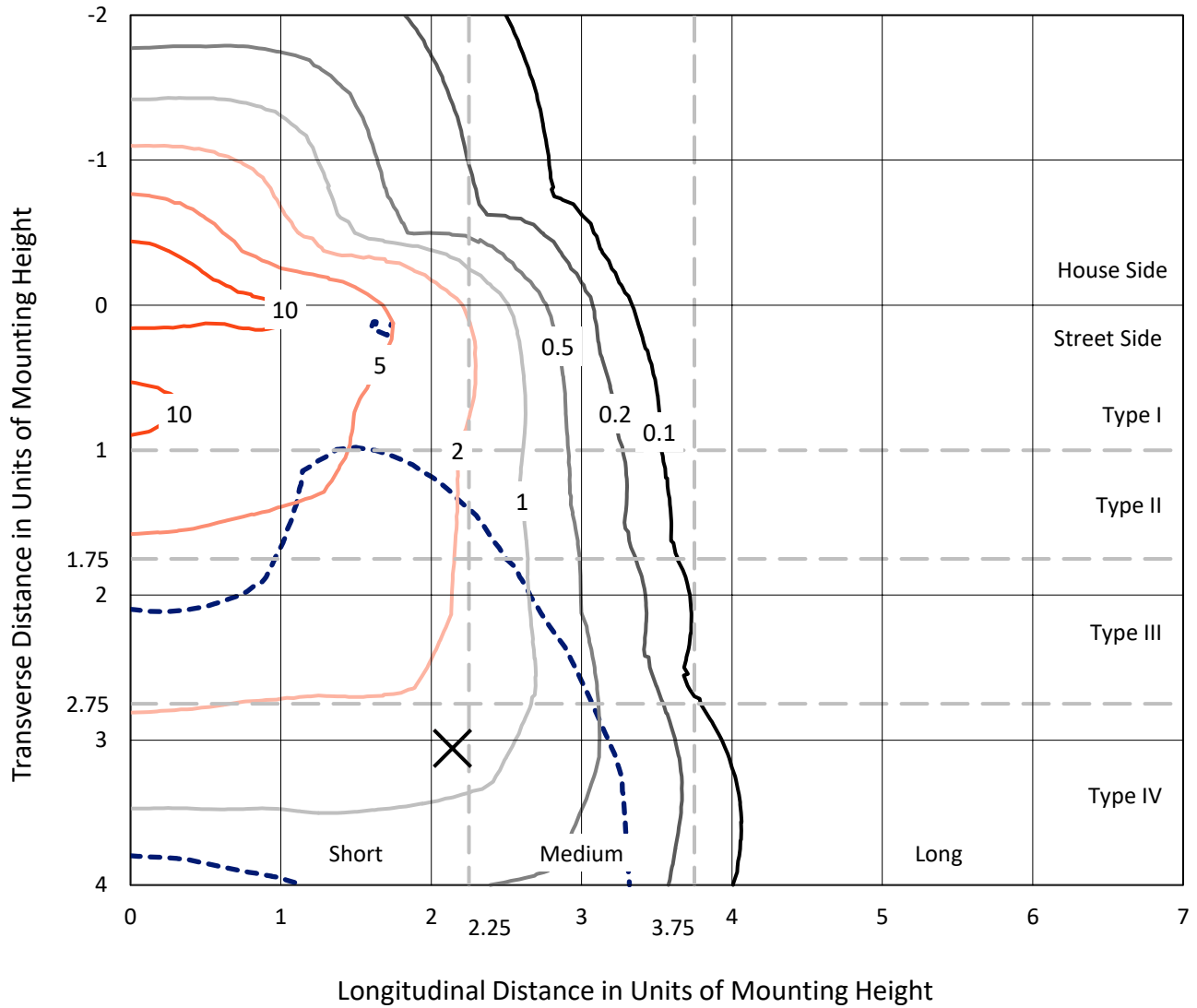
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

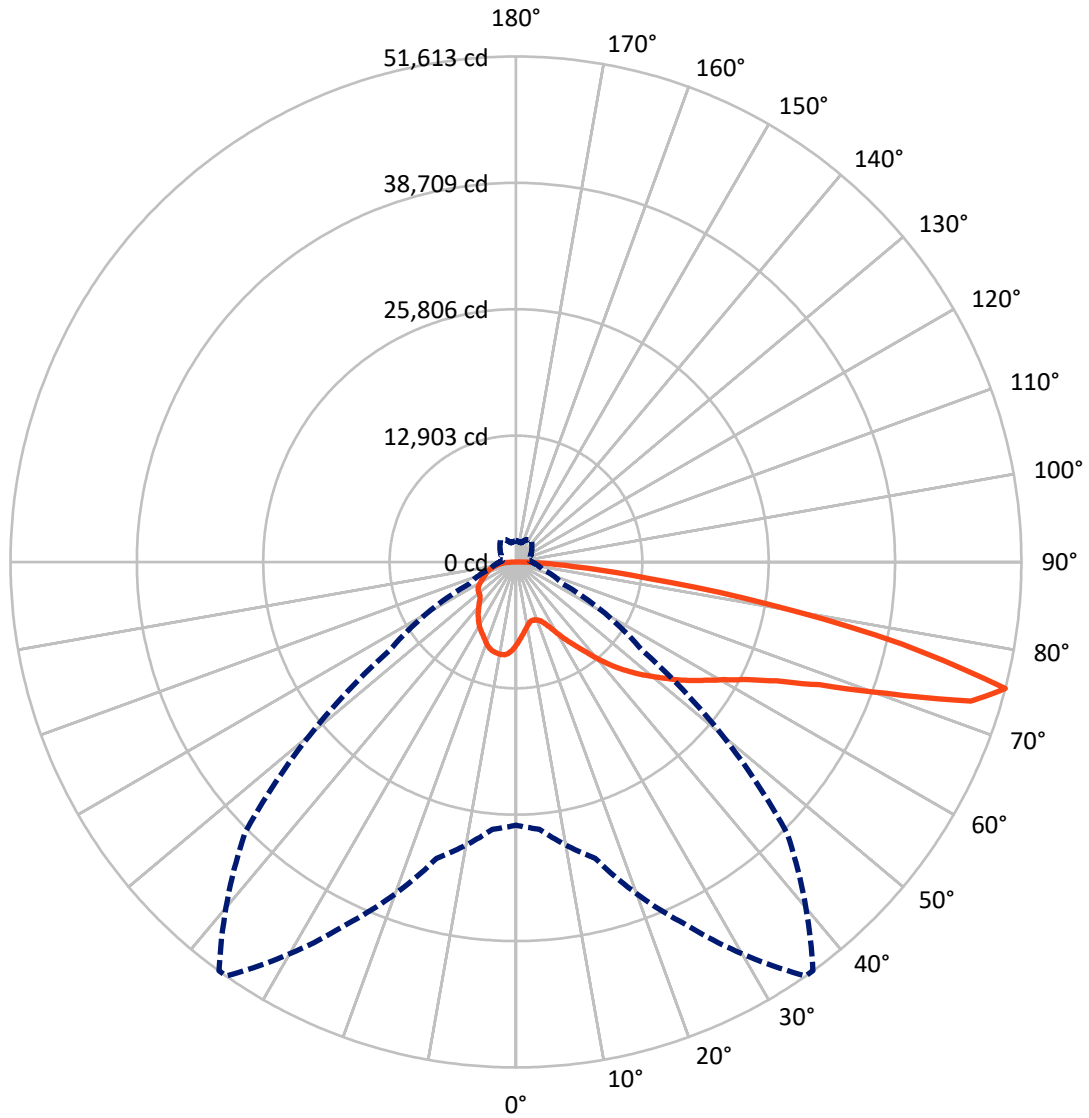
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 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	15069.5	0.0	15069.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	48254.5	0.0	48254.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	63324.0	0.0	63324.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	798.9	1.3
10°-20°	2304.5	3.6
20°-30°	3869.9	6.1
30°-40°	6014.3	9.5
40°-50°	8926.8	14.1
50°-60°	12324.0	19.5
60°-70°	14951.8	23.6
70°-80°	12356.5	19.5
80°-90°	1777.2	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°	63324.0	100.0
0°-180°	63324.0	100.0



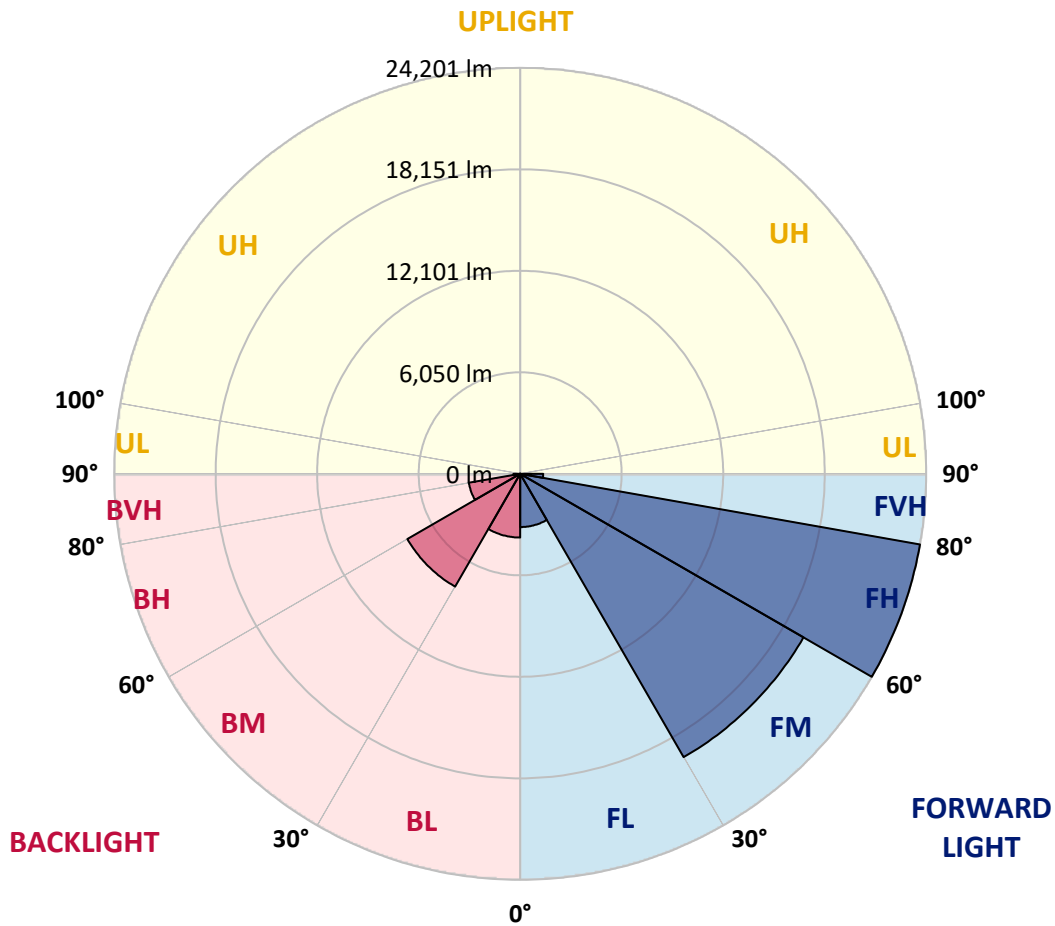
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3175.6	5.0			
FM (30°-60°)	19500.4	30.8			
FH (60°-80°)	24201.5	38.2			G5
FVH (80°-90°)	1377.1	2.2			G5
BL (0°-30°)	3797.7	6.0	B4/5000		
BM (30°-60°)	7764.7	12.3	B4/8500		
BH (60°-80°)	3106.9	4.9	B4/5000		G4/5000
BVH (80°-90°)	400.2	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°	8438.4	8438.4	8438.4	8438.4	8438.4	8438.4	8438.4	8438.4	8438.4	8438.4
2.5°	7781.1	7829.0	7849.5	7839.3	7890.6	7883.8	7955.7	8044.7	8167.9	8287.7
5°	7182.0	7233.4	7277.9	7318.9	7418.2	7449.0	7562.0	7733.2	7959.1	8188.5
7.5°	6624.0	6668.5	6737.0	6812.3	6980.0	7010.8	7199.1	7466.1	7781.1	8116.6
10°	6168.7	6213.2	6285.1	6370.7	6579.5	6617.2	6856.8	7212.8	7623.6	8048.1
12.5°	5973.6	5987.3	6028.4	6114.0	6295.4	6319.3	6582.9	6990.3	7469.6	7996.8
15°	5963.3	5990.7	5994.1	6038.6	6189.3	6199.5	6442.6	6846.5	7373.7	7986.5
17.5°	6066.0	6086.6	6055.8	6083.1	6209.8	6226.9	6418.6	6778.1	7342.9	8031.0
20°	6339.9	6357.0	6264.6	6226.9	6319.3	6333.0	6521.3	6822.6	7373.7	8123.4
22.5°	6921.8	6932.1	6706.2	6552.1	6559.0	6565.8	6730.1	7004.0	7493.5	8291.2
25°	7829.0	7822.2	7462.7	7164.9	6993.7	6956.1	7065.6	7298.4	7695.5	8513.7
27.5°	8890.2	8838.9	8479.4	8034.4	7661.3	7606.5	7582.5	7681.8	7983.1	8808.1
30°	10088.4	10040.4	9653.6	9071.7	8554.7	8465.7	8239.8	8188.5	8411.0	9208.6
32.5°	11402.9	11372.1	10909.9	10204.8	9513.3	9410.6	9030.6	8893.6	9068.2	9814.5
35°	12505.2	12477.8	12094.4	11368.7	10523.1	10396.5	10009.6	9855.6	9944.6	10591.6
37.5°	13501.4	13487.7	13159.0	12587.4	11714.4	11560.4	11125.6	11074.3	11057.2	11615.1
40°	14425.6	14391.4	14049.1	13747.8	13100.8	12960.5	12577.1	12532.6	12402.5	12874.9
42.5°	15449.2	15360.2	14863.8	14723.5	14548.9	14432.5	14203.1	14210.0	13922.4	14295.6
45°	16284.5	16233.1	15723.1	15640.9	15829.2	15781.3	15979.8	16031.2	15473.2	15784.7
47.5°	17181.4	17133.4	16702.1	16643.9	17154.0	17167.7	17869.4	17886.6	16986.2	17332.0
50°	18287.1	18218.6	17790.7	17862.6	18434.3	18485.6	19769.4	19653.0	18379.5	18903.3
52.5°	19016.2	19057.3	18964.9	19081.3	19861.8	19909.7	21638.5	21340.6	19759.1	20454.0
55°	19553.7	19635.9	19923.4	20190.4	21368.0	21416.0	23401.4	22946.2	20902.5	21891.8
57.5°	20245.2	20128.8	20666.3	21186.6	22799.0	22925.6	25116.5	24493.5	21915.8	23131.0
60°	21237.9	21155.8	21573.4	22343.7	24401.0	24603.0	26930.8	25886.7	22658.6	24113.5
62.5°	23250.8	23045.4	23110.5	23791.7	26420.8	26687.8	28977.9	27102.0	23028.3	24496.9
65°	26259.9	25907.3	25578.6	26051.1	29265.5	29529.1	31288.7	28057.1	22891.4	23754.0
67.5°	30049.4	29700.3	29296.3	29741.3	33455.6	33664.4	34140.2	28594.5	21813.1	20892.2
70°	33174.9	33044.8	33527.5	35358.9	40148.1	40154.9	37796.3	28149.5	18858.8	14812.5
72.5°	32760.7	32681.9	35225.4	40887.5	48583.0	48401.6	41257.2	24781.0	12703.7	6682.2
75°	26876.1	27386.1	31326.3	40788.2	51612.6	51588.6	39138.2	15753.9	5254.7	2769.4
77.5°	14412.0	15219.8	20337.6	30114.5	40291.8	40897.8	27516.2	5511.5	2255.9	1773.3
80°	4700.1	5405.3	8106.3	15332.8	26181.1	26068.2	11793.2	2163.5	1543.9	1256.3
82.5°	1995.8	2077.9	3621.8	7240.2	13436.3	13227.5	3755.3	1242.6	1085.2	859.2
85°	780.5	872.9	1598.7	3348.0	5819.6	5692.9	1355.6	616.2	694.9	561.4
87.5°	256.7	311.5	571.7	1146.8	1810.9	1745.9	332.1	212.2	301.2	256.7
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°
8438.4	0°	8438.4	8438.4	8438.4	8438.4	8438.4	8438.4	8438.4	8438.4	8438.4	8438.4
8462.3	2.5°	8510.2	8565.0	8630.1	8725.9	8808.1	8876.5	8948.4	8992.9	9010.0	9061.4
8476.0	5°	8571.9	8691.7	8852.6	9010.0	9164.1	9256.5	9338.7	9379.7	9417.4	9444.8
8513.7	7.5°	8674.6	8828.6	9081.9	9287.3	9417.4	9492.7	9547.5	9533.8	9547.5	9554.3
8554.7	10°	8763.6	8979.2	9280.5	9475.6	9574.9	9578.3	9564.6	9516.7	9492.7	9496.1
8616.4	12.5°	8869.7	9109.3	9434.5	9598.8	9626.2	9550.9	9492.7	9410.6	9379.7	9366.1
8708.8	15°	9013.5	9287.3	9602.3	9663.9	9595.4	9499.6	9400.3	9266.8	9198.3	9143.5
8866.3	17.5°	9188.0	9489.3	9732.3	9687.8	9540.6	9383.2	9222.3	9020.3	8880.0	8821.8
9081.9	20°	9431.1	9701.5	9831.6	9636.5	9414.0	9174.4	8900.5	8654.0	8523.9	8465.7
9355.8	22.5°	9725.5	9985.7	9927.5	9547.5	9232.5	8849.1	8506.8	8325.4	8260.3	8219.3
9708.4	25°	10078.1	10300.6	9995.9	9417.4	8934.7	8417.8	8154.2	8096.0	8065.2	8034.4
10139.7	27.5°	10536.8	10656.6	10047.3	9225.7	8469.2	7959.1	7863.2	7873.5	7863.2	7811.9
10738.8	30°	11142.7	11118.8	10095.2	8914.2	7935.1	7544.9	7551.7	7596.2	7603.1	7568.8
11574.1	32.5°	11940.4	11697.3	10119.2	8510.2	7425.1	7182.0	7188.9	7236.8	7271.0	7212.8
12666.1	35°	12905.7	12371.7	10081.5	8003.6	7031.4	6836.3	6784.9	6798.6	6808.9	6754.1
13990.9	37.5°	14032.0	13128.2	9913.8	7442.2	6706.2	6497.4	6387.8	6295.4	6240.6	6189.3
15490.3	40°	15267.8	13953.2	9605.7	6894.5	6343.3	6137.9	5973.6	5799.0	5614.2	5545.7
17078.7	42.5°	16561.8	14802.2	9232.5	6370.7	5925.7	5757.9	5583.3	5330.0	5052.7	4912.4
18728.7	45°	17903.7	15671.7	8866.3	5853.8	5497.8	5425.9	5223.9	4919.2	4618.0	4440.0
20382.1	47.5°	19218.2	16493.3	8328.8	5333.4	5097.2	5176.0	5018.5	4737.8	4402.3	4121.6
22021.9	50°	20474.6	17263.5	7449.0	4806.3	4772.0	5100.7	4950.0	4546.1	4162.7	3803.2
23630.8	52.5°	21720.6	17886.6	6322.8	4327.0	4597.4	5080.1	4861.0	4416.0	3947.0	3570.5
25143.9	55°	22778.4	18208.4	5237.6	3916.2	4344.1	4905.5	4754.9	4262.0	3642.4	3241.8
26181.1	57.5°	23380.9	17948.2	4333.9	3512.3	3995.0	4618.0	4573.5	3933.3	3279.5	2971.4
26383.1	60°	23120.7	16893.8	3594.4	3159.7	3662.9	4306.5	4258.5	3608.1	3002.2	2711.2
25301.4	62.5°	21686.4	14884.4	3009.1	2851.6	3361.6	3988.1	3943.6	3358.2	2790.0	2509.3
22429.2	65°	18797.2	12108.1	2553.8	2594.8	3057.0	3604.7	3669.7	3149.4	2622.2	2348.4
17352.5	67.5°	14336.6	8770.4	2197.7	2372.3	2759.2	3228.1	3416.4	2998.8	2481.9	2221.7
10040.4	70°	8171.3	4980.9	1896.5	2156.7	2495.6	2879.0	3221.3	2879.0	2331.2	2115.6
3762.2	72.5°	3098.1	2286.7	1639.7	1941.0	2242.2	2584.6	3005.6	2690.7	2156.7	1995.8
1944.4	75°	1653.4	1393.3	1379.6	1687.7	1951.3	2297.0	2735.2	2505.8	2026.6	2108.7
1345.3	77.5°	1126.3	985.9	1153.6	1444.6	1632.9	1978.6	2447.6	2225.1	1756.1	1749.3
931.1	80°	780.5	698.3	938.0	1163.9	1263.2	1663.7	2136.1	1910.2	1430.9	1335.1
575.1	82.5°	469.0	455.3	701.8	869.5	893.5	1283.7	1769.8	1602.1	1170.8	1020.1
342.3	85°	256.7	270.4	448.4	510.1	520.3	896.9	1386.4	1239.2	900.3	756.5
123.2	87.5°	71.9	92.4	164.3	202.0	249.9	465.6	825.0	736.0	451.9	314.9
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>
8438.4
9058.0
9451.6
9564.6
9503.0
9359.2
9160.7
8825.2
8458.9
8226.1
8034.4
7822.2
7586.0
7240.2
6791.8
6223.5
5576.5
4929.5
4426.3
4090.8
3772.4
3529.4
3207.6
2930.3
2670.1
2464.8
2303.9
2180.6
2088.2
1968.4
2177.2
1612.4
1276.9
1027.0
763.4
314.9
0.0

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