

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: P943289

Luminaire Tested: **GALN-SB7C-940-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943289
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-SB7C-940-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38145 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

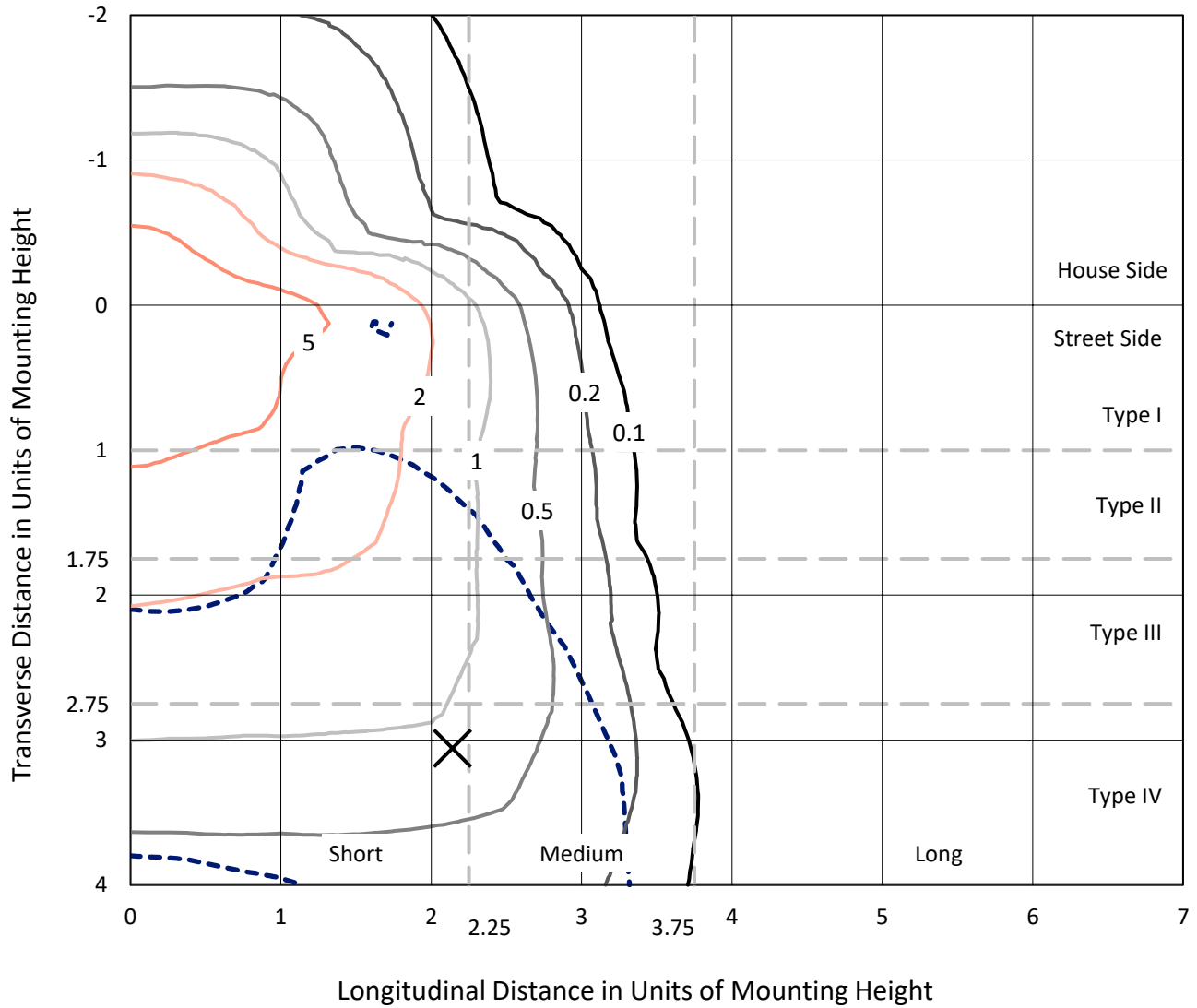
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

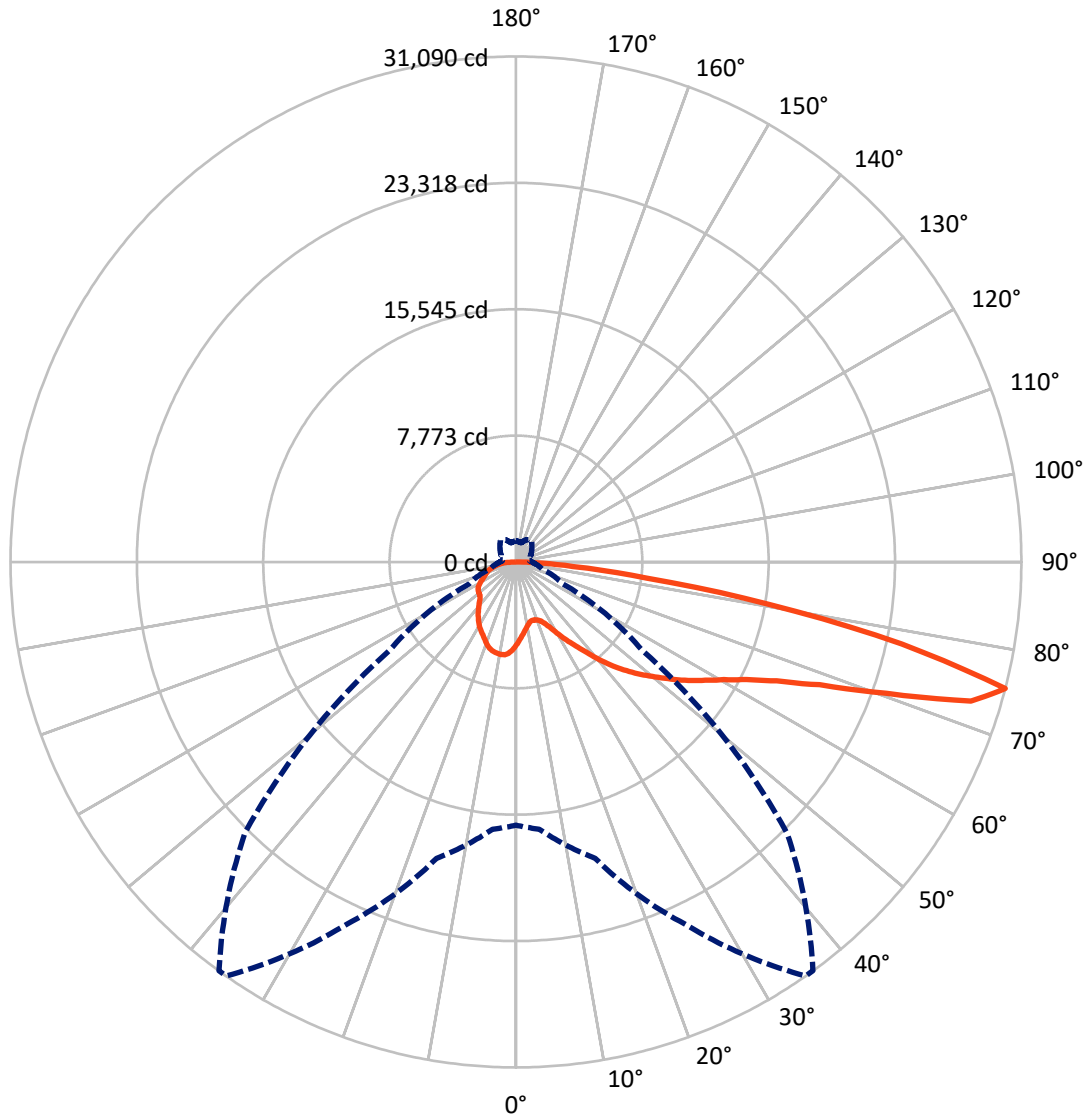
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	9077.6	0.0	9077.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	29067.4	0.0	29067.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	38145.0	0.0	38145.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.3	1.3
10°-20°	1388.2	3.6
20°-30°	2331.1	6.1
30°-40°	3622.9	9.5
40°-50°	5377.3	14.1
50°-60°	7423.7	19.5
60°-70°	9006.7	23.6
70°-80°	7443.3	19.5
80°-90°	1070.6	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°	38145.0	100.0
0°-180°	38145.0	100.0

Coefficient of Utilization



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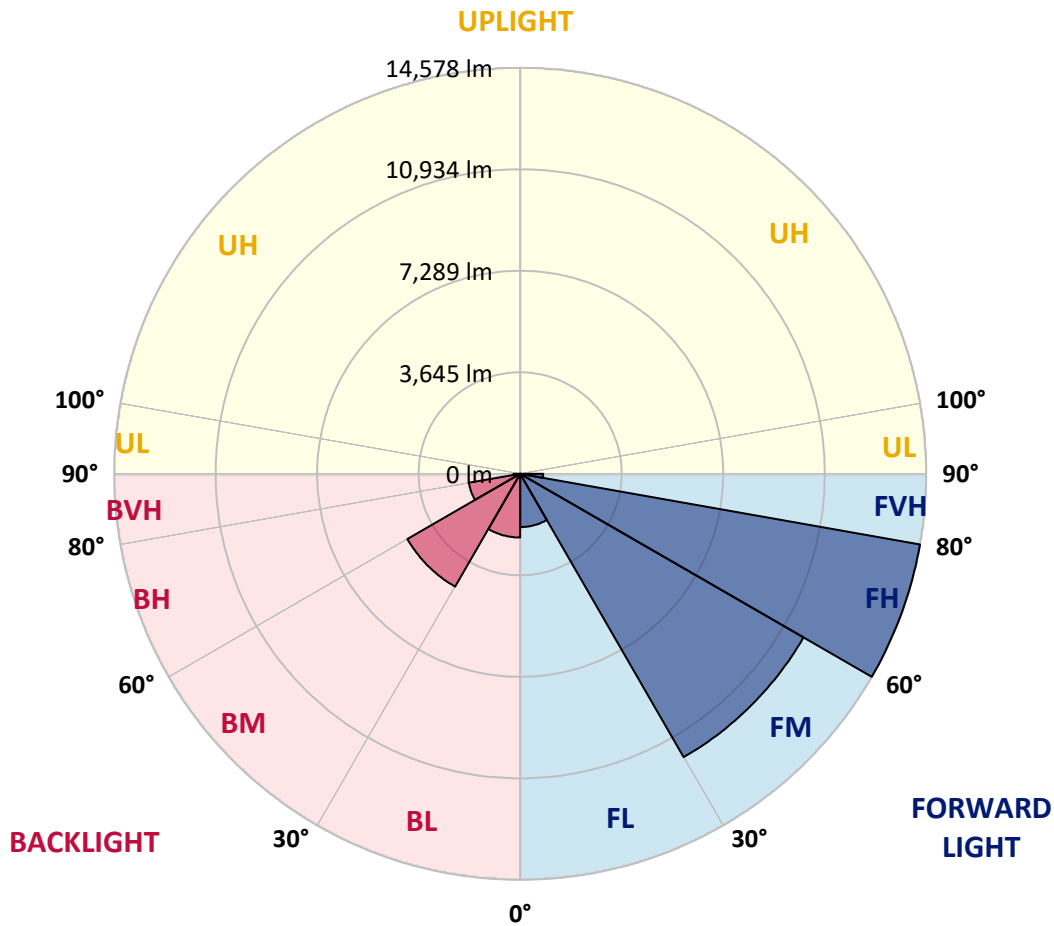
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1912.9	5.0			
FM (30°-60°)	11746.6	30.8			
FH (60°-80°)	14578.4	38.2			G5
FVH (80°-90°)	829.5	2.2			G5
BL (0°-30°)	2287.7	6.0	B3/2500		
BM (30°-60°)	4677.3	12.3	B3/5000		
BH (60°-80°)	1871.5	4.9	B3/2500		G3/2500
BVH (80°-90°)	241.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	5083.1	5083.1	5083.1	5083.1	5083.1	5083.1	5083.1	5083.1	5083.1	5083.1
2.5°	4687.2	4716.0	4728.4	4722.2	4753.1	4749.0	4792.3	4845.9	4920.2	4992.3
5°	4326.3	4357.2	4384.0	4408.8	4468.6	4487.1	4555.2	4658.3	4794.4	4932.5
7.5°	3990.2	4017.0	4058.2	4103.6	4204.6	4223.2	4336.6	4497.4	4687.2	4889.2
10°	3715.9	3742.7	3786.0	3837.6	3963.4	3986.0	4130.4	4344.8	4592.3	4848.0
12.5°	3598.4	3606.6	3631.4	3682.9	3792.2	3806.6	3965.4	4210.8	4499.5	4817.1
15°	3592.2	3608.7	3610.7	3637.5	3728.3	3734.5	3880.9	4124.2	4441.8	4810.9
17.5°	3654.0	3666.4	3647.9	3664.4	3740.7	3751.0	3866.4	4083.0	4423.2	4837.7
20°	3819.0	3829.3	3773.6	3751.0	3806.6	3814.9	3928.3	4109.8	4441.8	4893.4
22.5°	4169.6	4175.8	4039.7	3946.9	3951.0	3955.1	4054.1	4219.1	4513.9	4994.4
25°	4716.0	4711.9	4495.4	4316.0	4212.9	4190.2	4256.2	4396.4	4635.6	5128.4
27.5°	5355.3	5324.3	5107.8	4839.8	4615.0	4582.0	4567.6	4627.4	4808.8	5305.8
30°	6077.0	6048.1	5815.1	5464.6	5153.2	5099.6	4963.5	4932.5	5066.6	5547.1
32.5°	6868.9	6850.3	6571.9	6147.1	5730.6	5668.7	5439.8	5357.3	5462.5	5912.0
35°	7532.9	7516.4	7285.4	6848.2	6338.9	6262.6	6029.6	5936.8	5990.4	6380.1
37.5°	8132.9	8124.7	7926.7	7582.3	7056.5	6963.7	6701.8	6670.9	6660.6	6996.7
40°	8689.7	8669.1	8462.9	8281.4	7891.7	7807.1	7576.2	7549.4	7471.0	7755.6
42.5°	9306.3	9252.6	8953.6	8869.1	8763.9	8693.8	8555.7	8559.8	8386.6	8611.3
45°	9809.4	9778.5	9471.2	9421.7	9535.2	9506.3	9625.9	9656.8	9320.7	9508.3
47.5°	10349.7	10320.8	10061.0	10025.9	10333.2	10341.4	10764.2	10774.5	10232.1	10440.4
50°	11015.7	10974.5	10716.7	10760.0	11104.4	11135.3	11908.6	11838.5	11071.4	11386.9
52.5°	11455.0	11479.7	11424.0	11494.2	11964.3	11993.2	13034.5	12855.1	11902.4	12321.1
55°	11778.7	11828.2	12001.4	12162.3	12871.6	12900.5	14096.5	13822.3	12591.2	13187.1
57.5°	12195.3	12125.2	12448.9	12762.3	13733.6	13809.9	15129.6	14754.3	13201.6	13933.6
60°	12793.3	12743.8	12995.4	13459.3	14698.7	14820.3	16222.5	15593.6	13649.0	14525.4
62.5°	14005.8	13882.1	13921.2	14331.6	15915.3	16076.1	17455.7	16325.7	13871.8	14756.4
65°	15818.4	15606.0	15408.0	15692.6	17628.9	17787.7	18847.6	16901.0	13789.3	14308.9
67.5°	18101.1	17890.8	17647.5	17915.5	20152.9	20278.7	20565.3	17224.7	13139.7	12585.0
70°	19983.8	19905.5	20196.2	21299.4	24184.3	24188.4	22767.7	16956.7	11360.1	8922.7
72.5°	19734.3	19686.9	21219.0	24629.7	29265.3	29156.0	24852.4	14927.6	7652.5	4025.2
75°	16189.6	16496.8	18870.3	24569.9	31090.3	31075.9	23576.0	9489.8	3165.3	1668.2
77.5°	8681.4	9168.1	12250.9	18140.3	24270.9	24635.9	16575.2	3320.0	1358.9	1068.2
80°	2831.3	3256.1	4883.1	9236.2	15770.9	15702.9	7103.9	1303.2	930.0	756.8
82.5°	1202.2	1251.7	2181.7	4361.3	8093.7	7968.0	2262.1	748.5	653.7	517.6
85°	470.2	525.8	963.0	2016.7	3505.6	3429.3	816.6	371.2	418.6	338.2
87.5°	154.7	187.7	344.4	690.8	1090.9	1051.7	200.0	127.9	181.5	154.7
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°
5083.1	0°	5083.1	5083.1	5083.1	5083.1	5083.1	5083.1	5083.1	5083.1	5083.1	5083.1
5097.5	2.5°	5126.4	5159.4	5198.6	5256.3	5305.8	5347.0	5390.3	5417.1	5427.5	5458.4
5105.8	5°	5163.5	5235.7	5332.6	5427.5	5520.2	5575.9	5625.4	5650.2	5672.8	5689.3
5128.4	7.5°	5225.4	5318.2	5470.8	5594.5	5672.8	5718.2	5751.2	5743.0	5751.2	5755.3
5153.2	10°	5279.0	5408.9	5590.4	5707.9	5767.7	5769.8	5761.5	5732.6	5718.2	5720.3
5190.3	12.5°	5342.9	5487.3	5683.2	5782.1	5798.6	5753.3	5718.2	5668.7	5650.2	5641.9
5246.0	15°	5429.5	5594.5	5784.2	5821.3	5780.1	5722.3	5662.5	5582.1	5540.9	5507.9
5340.8	17.5°	5534.7	5716.1	5862.6	5835.7	5747.1	5652.2	5555.3	5433.6	5349.1	5314.0
5470.8	20°	5681.1	5844.0	5922.4	5804.8	5670.8	5526.4	5361.5	5213.0	5134.6	5099.6
5635.7	22.5°	5858.4	6015.1	5980.1	5751.2	5561.5	5330.5	5124.3	5015.0	4975.9	4951.1
5848.1	25°	6070.8	6204.9	6021.3	5672.8	5382.1	5070.7	4911.9	4876.9	4858.3	4839.8
6107.9	27.5°	6347.1	6419.3	6052.3	5557.4	5101.6	4794.4	4736.6	4742.8	4736.6	4705.7
6468.8	30°	6712.1	6697.7	6081.1	5369.7	4780.0	4544.9	4549.0	4575.8	4579.9	4559.3
6972.0	32.5°	7192.6	7046.2	6095.6	5126.4	4472.7	4326.3	4330.4	4359.3	4379.9	4344.8
7629.8	35°	7774.1	7452.4	6072.9	4821.2	4235.6	4118.0	4087.1	4095.3	4101.5	4068.5
8427.8	37.5°	8452.6	7908.2	5971.8	4483.0	4039.7	3913.9	3847.9	3792.2	3759.2	3728.3
9331.0	40°	9197.0	8405.1	5786.3	4153.1	3821.1	3697.3	3598.4	3493.2	3381.8	3340.6
10287.8	42.5°	9976.4	8916.5	5561.5	3837.6	3569.5	3468.5	3363.3	3210.7	3043.7	2959.1
11281.8	45°	10784.8	9440.3	5340.8	3526.2	3311.7	3268.4	3146.8	2963.2	2781.8	2674.5
12277.8	47.5°	11576.6	9935.2	5017.1	3212.8	3070.5	3117.9	3023.0	2853.9	2651.9	2482.8
13265.5	50°	12333.4	10399.2	4487.1	2895.2	2874.6	3072.5	2981.8	2738.5	2507.5	2291.0
14234.7	52.5°	13084.0	10774.5	3808.7	2606.5	2769.4	3060.2	2928.2	2660.1	2377.6	2150.8
15146.1	55°	13721.2	10968.3	3155.0	2359.0	2616.8	2955.0	2864.3	2567.3	2194.1	1952.8
15770.9	57.5°	14084.2	10811.6	2610.6	2115.7	2406.5	2781.8	2755.0	2369.4	1975.5	1789.9
15892.6	60°	13927.4	10176.5	2165.2	1903.3	2206.4	2594.1	2565.3	2173.5	1808.5	1633.2
15241.0	62.5°	13063.4	8966.0	1812.6	1717.7	2025.0	2402.3	2375.5	2022.9	1680.6	1511.5
13510.9	65°	11323.0	7293.7	1538.3	1563.1	1841.5	2171.4	2210.6	1897.1	1579.6	1414.6
10452.8	67.5°	8636.1	5283.1	1323.9	1429.0	1662.1	1944.6	2058.0	1806.4	1495.0	1338.3
6048.1	70°	4922.2	3000.4	1142.4	1299.1	1503.3	1734.2	1940.4	1734.2	1404.3	1274.4
2266.2	72.5°	1866.2	1377.5	987.7	1169.2	1350.7	1556.9	1810.5	1620.8	1299.1	1202.2
1171.3	75°	996.0	839.3	831.0	1016.6	1175.4	1383.7	1647.6	1509.5	1220.8	1270.3
810.4	77.5°	678.4	593.9	694.9	870.2	983.6	1191.9	1474.4	1340.4	1057.9	1053.7
560.9	80°	470.2	420.7	565.0	701.1	760.9	1002.2	1286.8	1150.7	862.0	804.2
346.4	82.5°	282.5	274.3	422.7	523.8	538.2	773.3	1066.1	965.1	705.2	614.5
206.2	85°	154.7	162.9	270.1	307.3	313.4	540.3	835.2	746.5	542.3	455.7
74.2	87.5°	43.3	55.7	99.0	121.7	150.5	280.4	497.0	443.4	272.2	189.7
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>
5083.1
5456.3
5693.5
5761.5
5724.4
5637.8
5518.2
5316.1
5095.5
4955.2
4839.8
4711.9
4569.6
4361.3
4091.2
3748.9
3359.2
2969.4
2666.3
2464.2
2272.4
2126.0
1932.2
1765.2
1608.4
1484.7
1387.8
1313.6
1257.9
1185.7
<i>1311.5</i>
971.2
769.2
618.6
459.8
189.7
0.0

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