

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: P956946

Luminaire Tested: **GALN-SB9B-940-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-940-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37094 lumens
Efficiency: N/A
Efficacy: 112.6 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

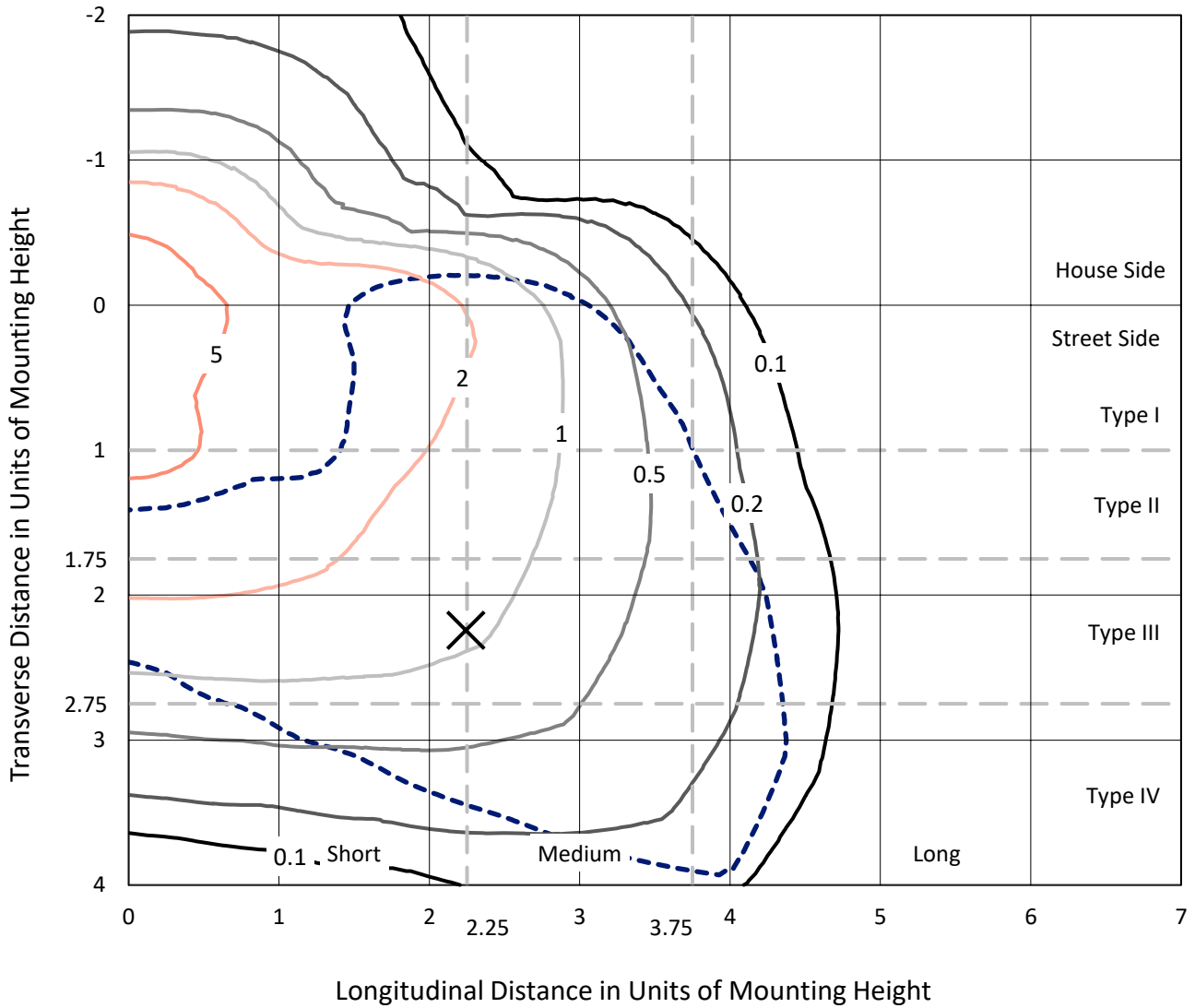
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

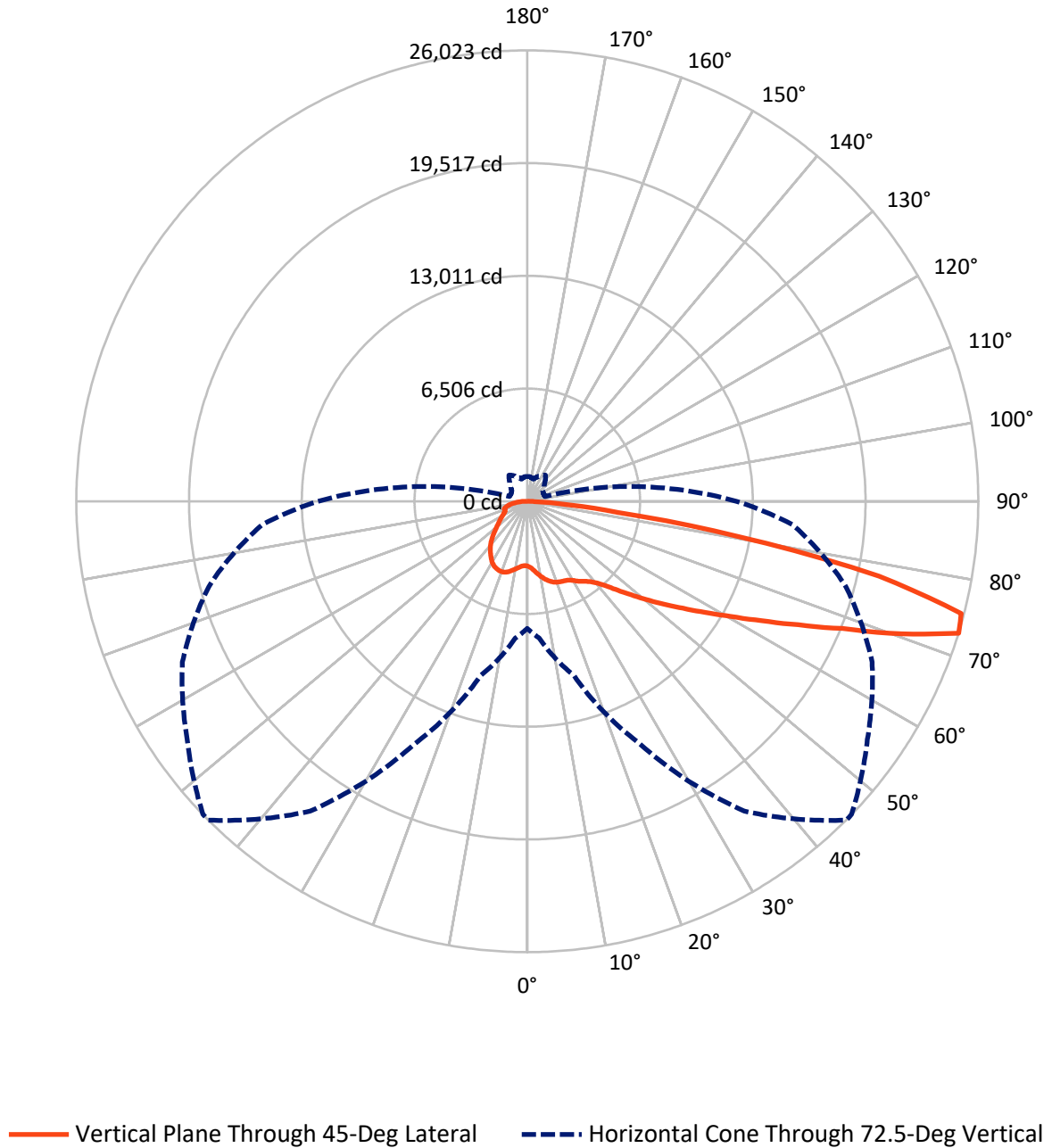
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8385.7	0.0	8385.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	28708.3	0.0	28708.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	37094.0	0.0	37094.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.9	1.0
10°-20°	1269.9	3.4
20°-30°	2209.0	6.0
30°-40°	3166.7	8.5
40°-50°	4458.9	12.0
50°-60°	6829.8	18.4
60°-70°	9893.9	26.7
70°-80°	7900.9	21.3
80°-90°	984.0	2.7
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°	37094.0	100.0
0°-180°	37094.0	100.0



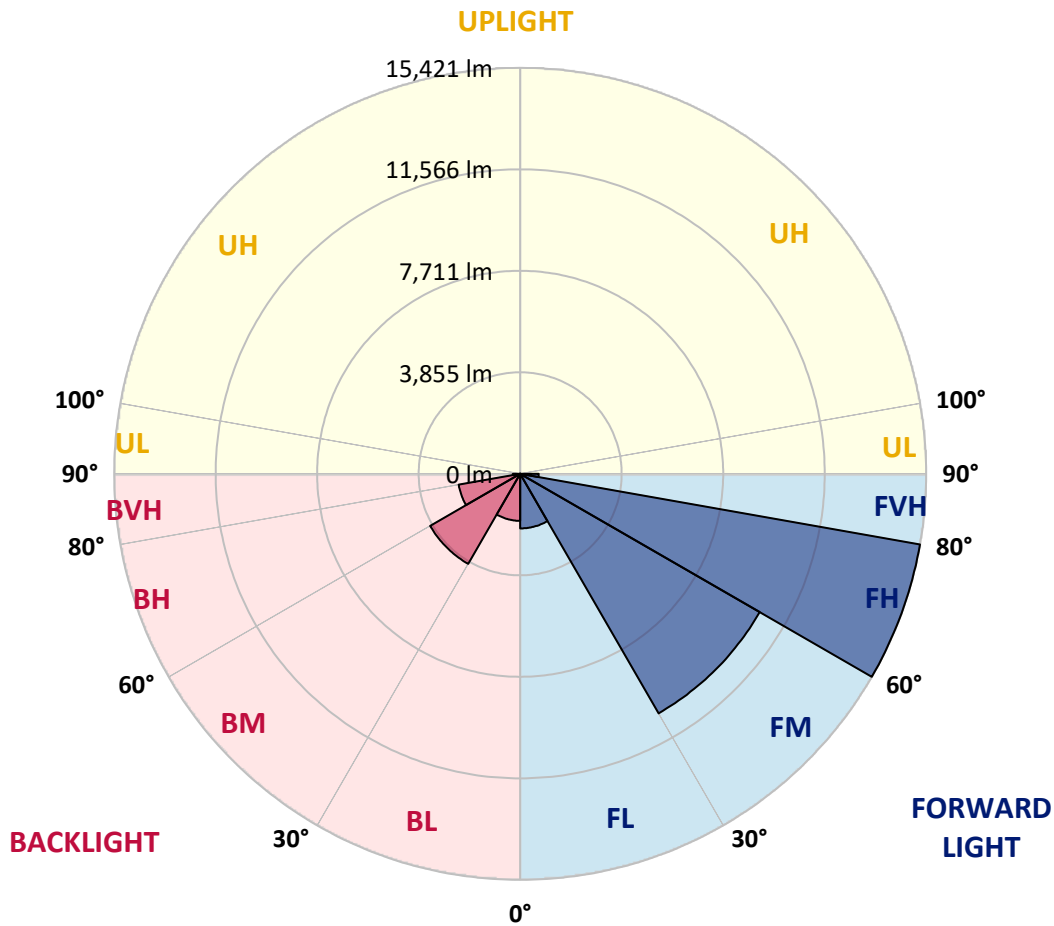
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2074.4	5.6			
FM (30°-60°)	10507.0	28.3			
FH (60°-80°)	15421.1	41.6			G5
FVH (80°-90°)	706.0	1.9			G4/750
BL (0°-30°)	1785.4	4.8	B3/2500		
BM (30°-60°)	3948.5	10.6	B3/5000		
BH (60°-80°)	2373.8	6.4	B3/2500		G3/2500
BVH (80°-90°)	278.1	0.7			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°	45°	46°	55°	65°	75°
0°	3742.1	3742.1	3742.1	3742.1	3742.1	3742.1	3742.1	3742.1	3742.1	3742.1
2.5°	3888.6	3914.0	3890.6	3869.1	3859.3	3833.9	3832.0	3816.3	3806.5	3779.2
5°	4160.2	4193.5	4154.4	4111.4	4072.3	4009.8	4002.0	3957.0	3906.2	3847.6
7.5°	4467.0	4496.3	4451.4	4386.9	4318.5	4214.9	4213.0	4130.9	4050.8	3951.1
10°	4734.7	4773.8	4713.2	4625.3	4539.3	4422.1	4408.4	4314.6	4213.0	4084.0
12.5°	4971.2	4998.5	4939.9	4832.4	4732.8	4615.5	4597.9	4494.4	4381.0	4234.5
15°	5158.8	5193.9	5115.8	5000.5	4895.0	4779.7	4764.0	4670.3	4556.9	4402.5
17.5°	5281.9	5311.2	5231.1	5102.1	5000.5	4904.7	4893.0	4814.9	4715.2	4558.9
20°	5328.8	5360.0	5276.0	5145.1	5051.3	4977.0	4971.2	4914.5	4846.1	4703.5
22.5°	5375.7	5405.0	5295.6	5158.8	5076.7	5029.8	5027.8	4990.7	4963.4	4846.1
25°	5565.2	5573.0	5426.5	5229.1	5111.9	5070.8	5068.9	5066.9	5078.7	4986.8
27.5°	5729.4	5727.4	5602.3	5416.7	5235.0	5149.0	5147.0	5166.6	5203.7	5127.5
30°	5969.7	5948.2	5799.7	5606.3	5440.2	5307.3	5295.6	5278.0	5307.3	5246.7
32.5°	6479.7	6411.3	6171.0	5827.1	5610.2	5508.6	5492.9	5383.5	5395.2	5358.1
35°	7210.6	7120.7	6800.2	6245.2	5821.2	5676.6	5668.8	5530.0	5506.6	5473.4
37.5°	8080.1	7968.7	7595.5	6851.0	6184.7	5872.0	5860.3	5735.2	5639.5	5604.3
40°	8953.6	8812.9	8504.2	7589.6	6720.1	6198.3	6161.2	5971.7	5862.2	5803.6
42.5°	9801.7	9684.4	9420.6	8418.2	7380.6	6675.1	6593.1	6268.7	6186.6	6131.9
45°	10552.0	10446.5	10253.1	9303.4	8154.4	7323.9	7243.8	6714.2	6688.8	6688.8
47.5°	11161.7	11138.3	10933.1	10206.2	9066.9	8062.5	7923.8	7333.7	7402.1	7507.6
50°	11837.8	11773.3	11554.5	11095.3	10139.7	8908.6	8795.3	8093.8	8349.8	8639.0
52.5°	12459.2	12494.4	12250.1	12021.5	11351.2	9852.5	9653.2	8990.7	9543.7	10022.5
55°	13098.2	13100.2	13031.8	13000.5	12621.4	10895.9	10677.1	10069.4	10948.7	11542.7
57.5°	13698.1	13702.0	13803.6	14079.1	14094.8	12099.7	11851.5	11394.2	12510.0	13115.8
60°	14233.5	14260.9	14538.4	15183.2	15390.3	13479.2	13244.8	12959.5	14124.1	14733.8
62.5°	14413.3	14512.9	15130.4	16046.9	16670.3	15171.5	14940.9	14770.9	15820.2	16386.9
65°	14108.5	14337.1	15531.0	16760.1	17987.3	17182.2	16953.6	16768.0	17582.8	18116.3
67.5°	13360.0	13655.1	15507.6	17508.6	19585.7	19601.4	19388.4	18952.6	19472.4	19677.6
70°	11388.4	11830.0	14141.7	17788.0	21420.6	22909.6	22704.5	21582.8	21358.1	20365.4
72.5°	7337.6	7931.6	10413.3	15488.0	21829.0	26022.5	26010.8	23957.0	21954.1	19028.8
75°	2677.1	3040.5	4838.3	9721.5	18323.4	25864.2	25940.4	23550.6	20041.0	14698.6
77.5°	975.1	1066.9	1578.9	3736.2	11269.2	20752.3	20910.6	18827.6	14264.8	7376.7
80°	512.0	562.8	809.0	1449.9	4828.5	12324.4	12572.5	11189.1	6704.4	2221.8
82.5°	283.3	306.8	453.3	787.5	2174.9	5270.2	5418.7	4420.1	2358.6	941.9
85°	152.4	162.2	213.0	429.9	1063.0	1827.1	1868.1	1321.0	939.9	553.0
87.5°	44.9	54.7	70.3	136.8	416.2	410.4	420.1	261.8	371.3	279.4
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°
3742.1	0°	3742.1	3742.1	3742.1	3742.1	3742.1	3742.1	3742.1	3742.1	3742.1	3742.1
3771.4	2.5°	3759.6	3753.8	3732.3	3722.5	3710.8	3708.8	3718.6	3720.6	3722.5	3724.5
3814.4	5°	3794.8	3775.3	3755.7	3744.0	3747.9	3749.9	3769.4	3783.1	3792.9	3800.7
3894.5	7.5°	3863.2	3847.6	3814.4	3812.4	3818.3	3835.9	3861.3	3892.5	3910.1	3923.8
3998.0	10°	3964.8	3935.5	3896.4	3902.3	3914.0	3939.4	3992.2	4017.6	4046.9	4072.3
4125.1	12.5°	4068.4	4043.0	3998.0	4002.0	4021.5	4066.4	4117.2	4148.5	4168.1	4187.6
4261.8	15°	4203.2	4158.3	4109.4	4109.4	4144.6	4193.5	4216.9	4242.3	4254.0	4275.5
4408.4	17.5°	4342.0	4283.3	4218.9	4214.9	4257.9	4281.4	4295.1	4299.0	4302.9	4326.3
4551.1	20°	4480.7	4416.2	4324.4	4316.6	4326.3	4322.4	4320.5	4316.6	4322.4	4351.7
4697.6	22.5°	4617.5	4543.2	4416.2	4381.0	4353.7	4316.6	4314.6	4312.7	4316.6	4345.9
4855.9	25°	4777.7	4687.8	4517.8	4412.3	4320.5	4269.7	4275.5	4277.5	4281.4	4304.8
5020.0	27.5°	4951.6	4852.0	4611.6	4402.5	4236.4	4201.3	4191.5	4197.4	4211.0	4248.2
5184.2	30°	5125.6	5008.3	4697.6	4363.5	4130.9	4082.1	4050.8	4064.5	4107.5	4144.6
5326.8	32.5°	5283.8	5166.6	4766.0	4277.5	3996.1	3919.9	3878.8	3896.4	3939.4	3953.1
5485.1	35°	5469.5	5336.6	4795.3	4140.7	3849.5	3732.3	3677.6	3652.2	3673.7	3660.0
5670.7	37.5°	5676.6	5537.9	4791.4	3960.9	3677.6	3542.7	3466.5	3370.8	3325.8	3278.9
5944.3	40°	5983.4	5784.1	4744.5	3744.0	3464.6	3341.5	3204.7	3042.5	2940.9	2849.0
6385.9	42.5°	6401.6	6126.0	4658.5	3505.6	3224.2	3108.9	2923.3	2733.8	2573.5	2421.1
7056.2	45°	7024.9	6573.5	4551.1	3251.6	2964.3	2851.0	2649.7	2436.7	2255.0	2059.6
8007.8	47.5°	7923.8	7175.4	4449.4	2962.4	2690.8	2587.2	2405.5	2208.1	1993.2	1803.6
9383.5	50°	9158.8	8039.1	4355.6	2681.0	2421.1	2342.9	2198.3	1997.1	1780.2	1627.7
10995.6	52.5°	10729.9	9213.5	4316.6	2409.4	2169.0	2139.7	2024.4	1836.8	1631.7	1502.7
12875.4	55°	12533.5	10618.5	4316.6	2149.5	1948.2	1958.0	1877.9	1704.0	1526.1	1410.8
14813.9	57.5°	14374.2	12041.0	4238.4	1909.1	1760.6	1801.7	1750.9	1598.4	1438.2	1319.0
16852.0	60°	16070.4	13233.0	3921.8	1690.3	1594.5	1659.0	1625.8	1494.9	1299.5	1199.8
18555.9	62.5°	17373.7	13905.2	3312.2	1516.4	1457.7	1532.0	1514.4	1358.1	1274.1	1233.0
19955.1	65°	18026.4	13795.8	2532.5	1362.0	1342.5	1457.7	1420.6	1414.8	1348.3	1301.4
20410.4	67.5°	17625.8	12853.9	1836.8	1248.7	1276.0	1389.4	1532.0	1555.4	1432.3	1340.5
19128.5	70°	15869.1	11150.0	1367.9	1141.2	1192.0	1391.3	1746.9	1627.7	1405.0	1297.5
15341.5	72.5°	12072.3	8314.6	1061.1	1027.8	1082.6	1401.1	1842.7	1594.5	1326.8	1434.3
9557.4	75°	6903.8	4564.7	852.0	889.1	945.8	1309.2	1793.8	1508.5	1266.2	1317.0
3787.0	77.5°	2632.1	1754.8	703.5	752.3	760.1	1143.1	1715.7	1502.7	1205.7	1176.4
1135.3	80°	912.6	685.9	582.3	597.9	588.2	1016.1	1645.3	1307.3	986.8	883.2
469.0	82.5°	373.2	342.0	461.2	441.6	418.2	789.4	1328.8	1068.9	807.0	713.2
226.7	85°	162.2	216.9	304.8	267.7	242.3	547.1	1065.0	904.7	682.0	588.2
74.3	87.5°	33.2	82.1	129.0	121.2	125.1	365.4	756.2	642.9	482.7	361.5
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>
3742.1
3732.3
3804.6
3927.7
4066.4
4195.4
4283.3
4334.1
4363.5
4365.4
4336.1
4285.3
4185.6
4002.0
3703.0
3308.3
2854.9
2407.4
2036.2
1782.1
1618.0
1492.9
1399.1
1299.5
1184.2
1219.3
1285.8
1324.9
1279.9
1422.6
1317.0
1072.8
853.9
705.4
586.2
283.3
0.0

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