

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: P941862

Luminaire Tested: **GALN-SB5C-835-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-835-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34783 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

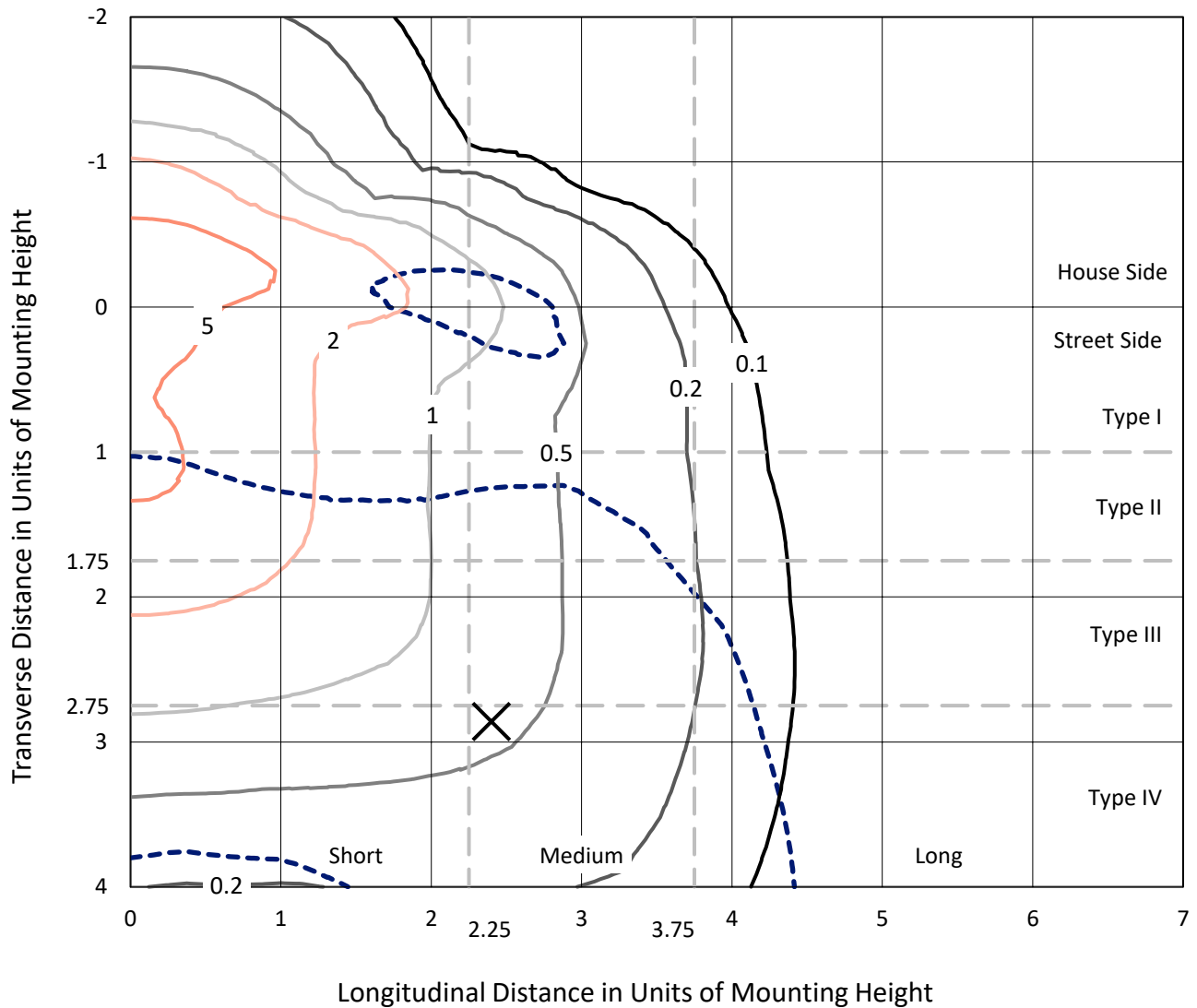
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

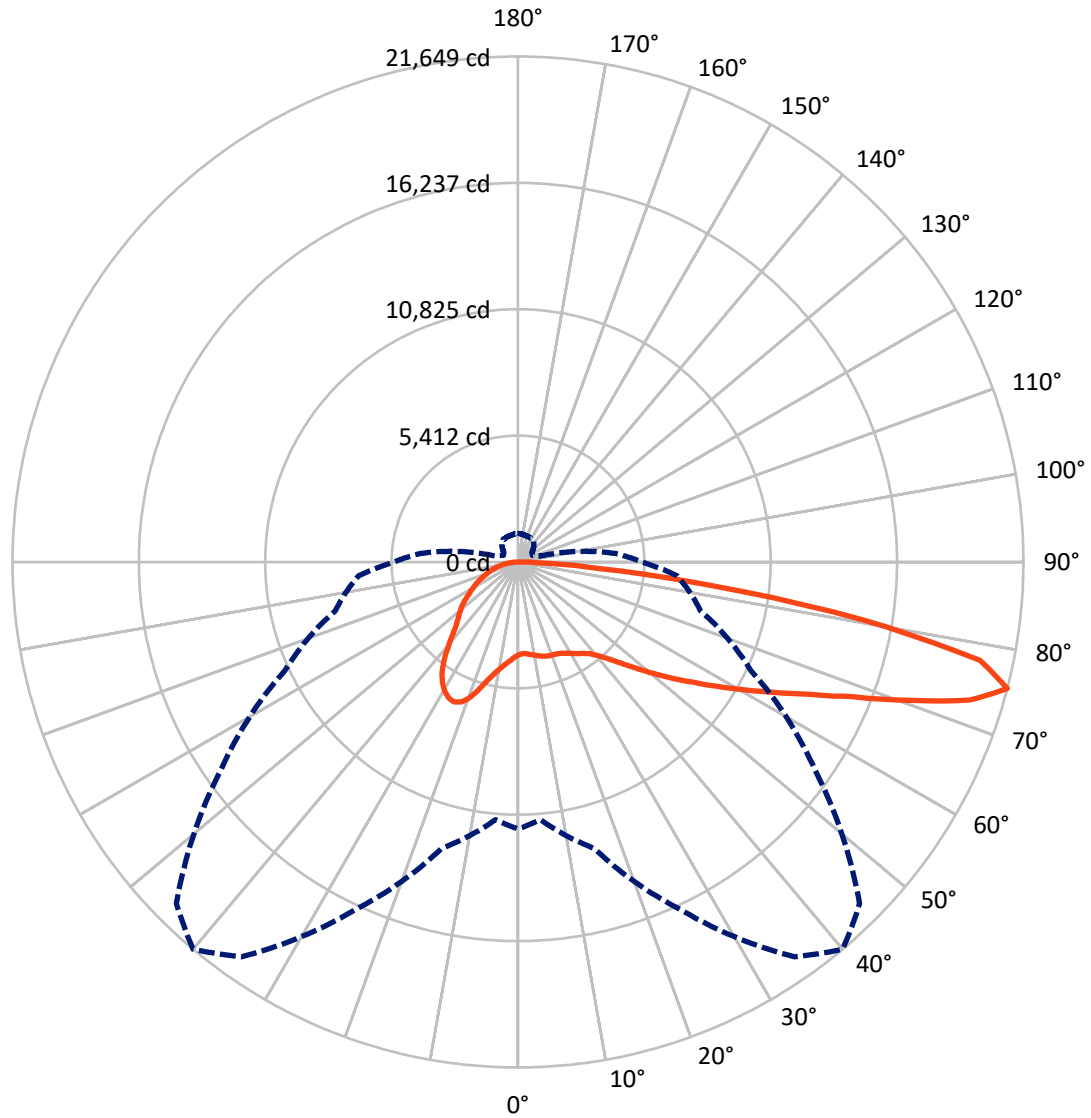
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10776.9	0.0	10776.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	24006.1	0.0	24006.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	34783.0	0.0	34783.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.0	1.1
10°-20°	1333.0	3.8
20°-30°	2434.0	7.0
30°-40°	3452.0	9.9
40°-50°	4661.3	13.4
50°-60°	6270.7	18.0
60°-70°	7958.9	22.9
70°-80°	7223.2	20.8
80°-90°	1052.9	3.0
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°	34783.0	100.0
0°-180°	34783.0	100.0



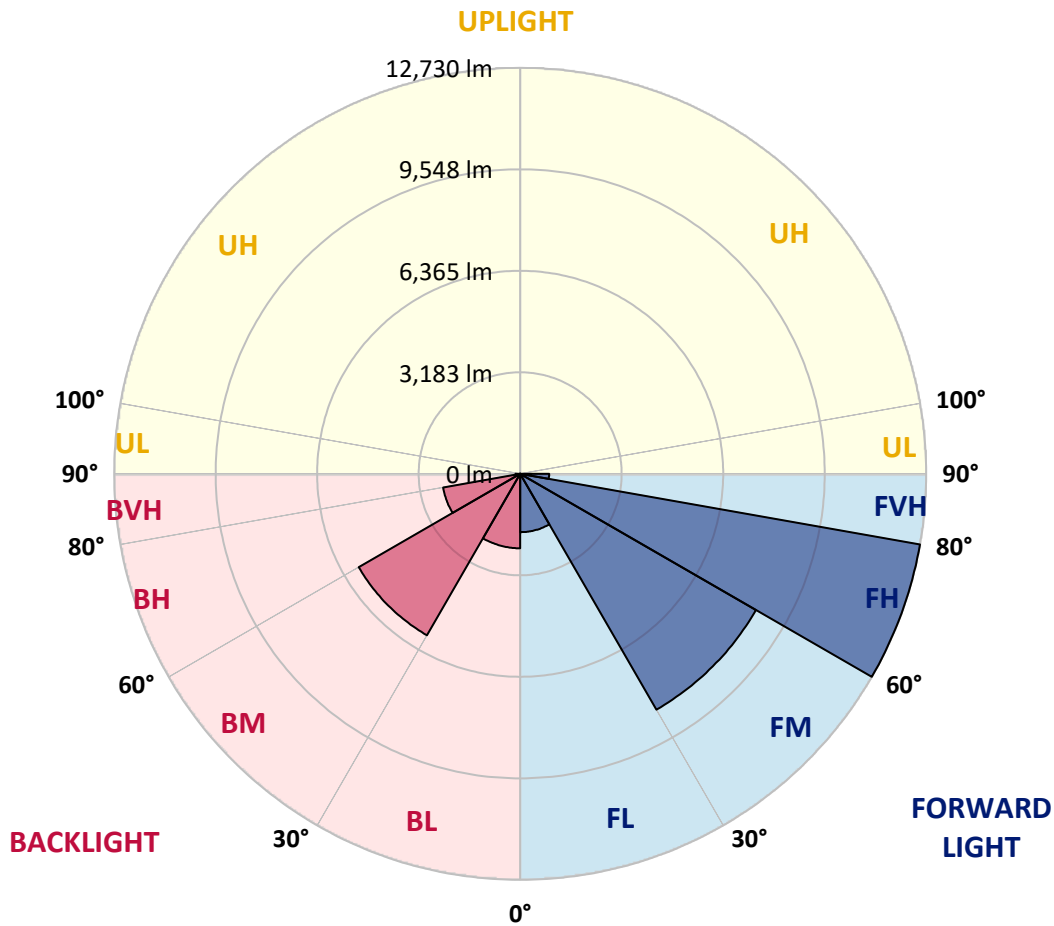
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1829.6	5.3			
FM (30°-60°)	8538.5	24.5			
FH (60°-80°)	12730.0	36.6			G5
FVH (80°-90°)	908.0	2.6			G5
BL (0°-30°)	2334.4	6.7	B3/2500		
BM (30°-60°)	5845.5	16.8	B4/8500		
BH (60°-80°)	2452.1	7.0	B3/2500		G3/2500
BVH (80°-90°)	145.0	0.4			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3977.5	3977.5	3977.5	3977.5	3977.5	3977.5	3977.5	3977.5	3977.5	3977.5
2.5°	3916.6	3938.7	3933.2	3925.8	3925.8	3927.7	3925.8	3938.7	3951.7	3964.6
5°	3957.2	3979.3	3968.3	3959.0	3951.7	3949.8	3944.3	3942.4	3949.8	3966.4
7.5°	4036.5	4058.7	4042.1	4025.4	4010.7	4003.3	3995.9	3984.9	3979.3	3988.6
10°	4125.1	4147.2	4126.9	4097.4	4073.4	4064.2	4056.8	4045.7	4038.4	4043.9
12.5°	4213.6	4235.8	4208.1	4167.5	4136.1	4130.6	4121.4	4117.7	4115.8	4114.0
15°	4296.6	4315.1	4280.0	4232.1	4198.9	4189.6	4180.4	4185.9	4195.2	4206.2
17.5°	4361.2	4379.7	4328.0	4265.3	4233.9	4230.2	4224.7	4243.1	4269.0	4296.6
20°	4420.2	4438.7	4372.3	4287.4	4250.5	4250.5	4252.4	4291.1	4328.0	4368.6
22.5°	4503.3	4518.0	4436.8	4320.6	4267.1	4270.8	4285.6	4324.3	4370.4	4425.8
25°	4626.9	4637.9	4538.3	4383.3	4322.5	4333.5	4346.5	4364.9	4409.2	4473.7
27.5°	4826.1	4835.3	4704.4	4494.0	4401.8	4420.2	4438.7	4425.8	4446.1	4501.4
30°	5106.5	5112.1	4946.0	4667.5	4536.5	4545.7	4549.4	4495.9	4457.1	4501.4
32.5°	5438.6	5436.8	5239.4	4877.8	4689.6	4680.4	4649.0	4543.8	4453.5	4492.2
35°	5953.3	5933.0	5678.4	5172.9	4863.0	4805.8	4732.0	4597.3	4471.9	4483.0
37.5°	6805.6	6742.9	6390.5	5656.3	5121.3	4975.5	4866.7	4684.1	4512.5	4479.3
40°	7766.8	7687.5	7300.0	6318.6	5508.7	5274.4	5099.1	4807.7	4578.9	4495.9
42.5°	8906.9	8794.4	8377.4	7099.0	5999.4	5660.0	5396.2	4964.5	4676.7	4549.4
45°	10307.1	10157.7	9567.4	7978.9	6617.5	6165.5	5813.1	5202.5	4826.1	4652.7
47.5°	11722.1	11759.0	10919.6	8986.2	7359.1	6789.0	6335.2	5560.4	5043.8	4818.7
50°	13225.7	13251.5	12264.5	10102.4	8200.3	7493.8	6921.9	5960.7	5346.4	5054.9
52.5°	14399.0	14402.7	13485.8	11270.1	9076.6	8268.6	7554.6	6418.2	5696.9	5368.5
55°	15133.3	15124.0	14341.8	12375.2	10083.9	9082.2	8255.7	6938.5	6124.9	5737.5
57.5°	15666.4	15638.7	14932.2	13325.3	11157.6	10043.3	9049.0	7528.8	6630.4	6176.5
60°	15869.3	15852.7	15332.5	14146.3	12286.7	11106.0	9964.0	8189.3	7204.1	6694.9
62.5°	15946.8	15978.2	15725.4	14941.4	13495.0	12283.0	10969.4	8978.9	7849.8	7281.6
65°	16219.9	16277.1	16225.4	15981.9	14860.2	13661.1	12303.3	9917.9	8554.5	7910.7
67.5°	16760.4	16817.6	16839.7	17227.1	16528.0	15378.6	13967.3	11087.5	9379.2	8563.8
70°	16747.5	16730.9	17122.0	18217.8	18616.3	17756.6	16210.6	12526.5	10362.5	9106.1
72.5°	15243.9	15111.1	16035.4	18206.8	20354.2	20239.8	18950.2	14382.4	11211.1	9172.6
75°	11436.2	11082.0	12714.7	16408.0	20643.8	21649.2	20691.8	15533.6	11010.0	8104.4
77.5°	4890.7	4534.6	6458.8	12146.4	18476.1	20237.9	19094.1	13552.2	8788.8	5359.3
80°	1280.3	1278.5	1951.8	5506.9	12565.2	14945.1	13111.3	8751.9	5021.7	1914.9
82.5°	529.5	516.6	717.6	2141.9	6139.6	8386.7	6844.4	3903.7	1813.5	518.4
85°	197.4	195.6	348.7	739.8	2165.8	3459.1	2503.5	998.1	452.0	252.7
87.5°	55.3	53.5	75.6	256.4	527.6	800.7	428.0	164.2	127.3	99.6
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°
3977.5	0°	3977.5	3977.5	3977.5	3977.5	3977.5	3977.5	3977.5	3977.5	3977.5	3977.5
3984.9	2.5°	3990.4	3999.6	4016.2	4029.1	4045.7	4064.2	4090.0	4106.6	4123.2	4134.3
3994.1	5°	4007.0	4027.3	4069.7	4112.2	4162.0	4208.1	4261.6	4300.3	4331.7	4340.9
4027.3	7.5°	4043.9	4077.1	4149.1	4221.0	4300.3	4376.0	4453.5	4519.9	4573.4	4593.7
4086.3	10°	4108.5	4152.7	4254.2	4355.7	4460.8	4577.1	4676.7	4772.6	4848.2	4879.6
4156.4	12.5°	4189.6	4245.0	4377.8	4518.0	4663.8	4824.3	4953.4	5071.5	5165.6	5208.0
4254.2	15°	4294.8	4366.7	4536.5	4724.6	4938.6	5161.9	5326.1	5457.0	5562.2	5613.9
4355.7	17.5°	4409.2	4505.1	4719.1	5003.2	5309.5	5602.8	5794.7	5890.6	5999.4	6049.2
4449.8	20°	4519.9	4637.9	4944.2	5357.4	5765.1	6076.9	6231.9	6257.7	6265.1	6270.6
4538.3	22.5°	4634.2	4792.9	5226.4	5803.9	6241.1	6457.0	6479.1	6368.4	6213.4	6141.5
4625.0	25°	4759.7	4970.0	5595.4	6296.5	6650.7	6676.5	6506.8	6237.4	5944.1	5809.4
4695.1	27.5°	4881.5	5174.8	6038.2	6766.9	6945.8	6718.9	6353.6	5971.8	5617.5	5475.5
4744.9	30°	5003.2	5409.1	6527.1	7178.3	7080.5	6613.8	6112.0	5685.8	5329.8	5180.3
4789.2	32.5°	5126.8	5682.1	7089.7	7475.3	7056.5	6390.5	5811.3	5364.8	5051.2	4894.4
4828.0	35°	5267.0	6017.9	7622.9	7637.7	6896.0	6062.2	5414.6	4981.1	4708.0	4582.6
4874.1	37.5°	5449.7	6444.0	8093.3	7678.2	6615.6	5580.7	4922.0	4527.2	4302.2	4245.0
4942.3	40°	5676.6	6956.9	8453.1	7613.7	6200.5	4995.8	4383.3	4067.9	3940.6	3953.5
5034.6	42.5°	5971.8	7530.7	8705.8	7447.6	5623.1	4392.6	3911.1	3770.9	3831.7	3883.4
5172.9	45°	6355.5	8126.5	8862.6	7165.4	4970.0	3881.6	3632.5	3665.7	3711.8	3717.4
5396.2	47.5°	6846.2	8729.8	8965.9	6739.2	4304.0	3521.8	3455.4	3462.8	3453.5	3414.8
5730.1	50°	7458.7	9316.5	9058.2	6174.7	3737.7	3296.7	3208.2	3182.4	3055.1	2929.6
6174.7	52.5°	8156.1	9855.2	9096.9	5473.7	3296.7	3108.6	2964.7	2802.3	2564.3	2525.6
6733.7	55°	8930.9	10353.3	8997.3	4612.1	2925.9	2866.9	2649.2	2453.6	2427.8	2394.6
7469.8	57.5°	9857.0	10890.1	8794.4	3650.9	2545.9	2584.6	2372.5	2394.6	2348.5	2296.8
8416.2	60°	10869.8	11445.4	8438.3	2774.6	2152.9	2232.3	2300.5	2298.7	2285.8	2243.3
9414.2	62.5°	11781.2	11810.7	7737.3	2125.3	1807.9	1959.2	2145.6	2143.7	2132.6	2108.7
10456.6	65°	12323.6	11755.3	6567.6	1673.3	1523.8	1734.2	1935.2	1950.0	1951.8	1950.0
11240.6	67.5°	12227.6	11107.8	4962.6	1332.0	1289.5	1505.4	1726.8	1747.1	1761.8	1765.5
11340.3	70°	11142.9	9685.4	3235.9	1062.6	1081.1	1304.3	1529.4	1549.7	1562.6	1577.3
9840.4	72.5°	8685.5	7121.1	1852.2	859.7	898.4	1130.9	1333.8	1357.8	1365.2	1392.9
6848.1	75°	5292.9	4187.8	999.9	677.1	737.9	966.7	1140.1	1167.8	1180.7	1213.9
3363.1	77.5°	2516.4	1813.5	570.1	527.6	594.0	789.6	963.0	994.4	959.3	977.8
928.0	80°	850.5	673.4	359.7	402.2	453.8	616.2	771.1	802.5	728.7	725.0
308.1	82.5°	297.0	273.0	228.8	267.5	293.3	440.9	583.0	623.6	542.4	540.5
138.4	85°	116.2	110.7	127.3	145.7	175.3	271.2	383.7	404.0	333.9	269.3
40.6	87.5°	24.0	25.8	31.4	33.2	53.5	94.1	138.4	169.7	134.7	114.4
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>
3977.5
4126.9
4344.6
4595.5
4881.5
5208.0
5610.2
6047.4
6285.4
6161.8
5829.7
5492.1
5196.9
4914.7
4610.3
4285.6
3997.8
3931.4
3754.3
3444.3
2946.2
2538.5
2400.1
2287.6
2228.6
2099.4
1950.0
1769.2
1584.7
1403.9
1217.6
963.0
717.6
514.7
265.7
105.2
0.0

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