

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: P943042

Luminaire Tested: **GALN-SB7B-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943042
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-SB7B-830-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35669 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

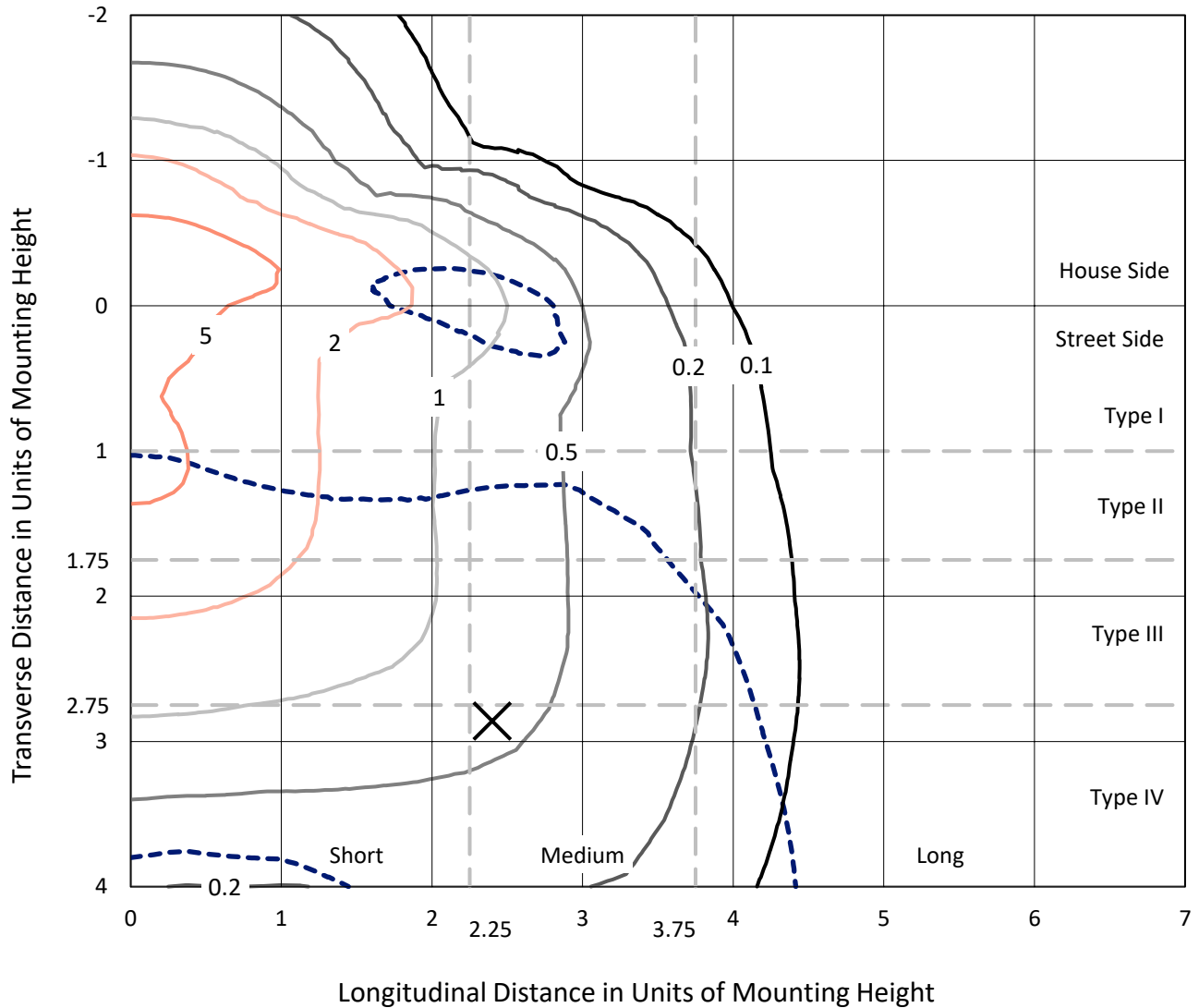
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

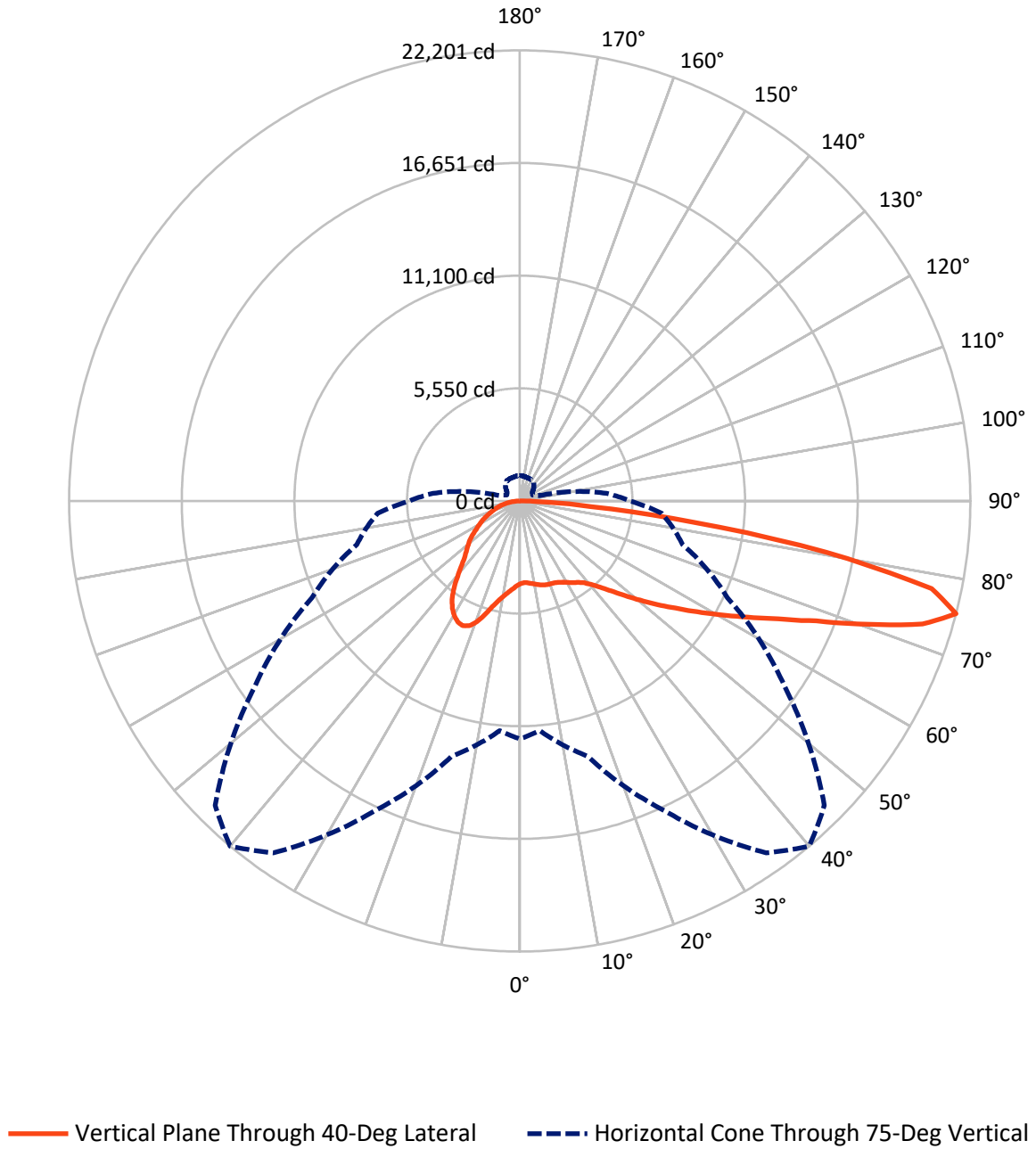
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11051.5	0.0	11051.5
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	24617.6	0.0	24617.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	35669.0	0.0	35669.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.1	1.1
10°-20°	1367.0	3.8
20°-30°	2496.0	7.0
30°-40°	3540.0	9.9
40°-50°	4780.0	13.4
50°-60°	6430.4	18.0
60°-70°	8161.6	22.9
70°-80°	7407.2	20.8
80°-90°	1079.7	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°	35669.0	100.0
0°-180°	35669.0	100.0

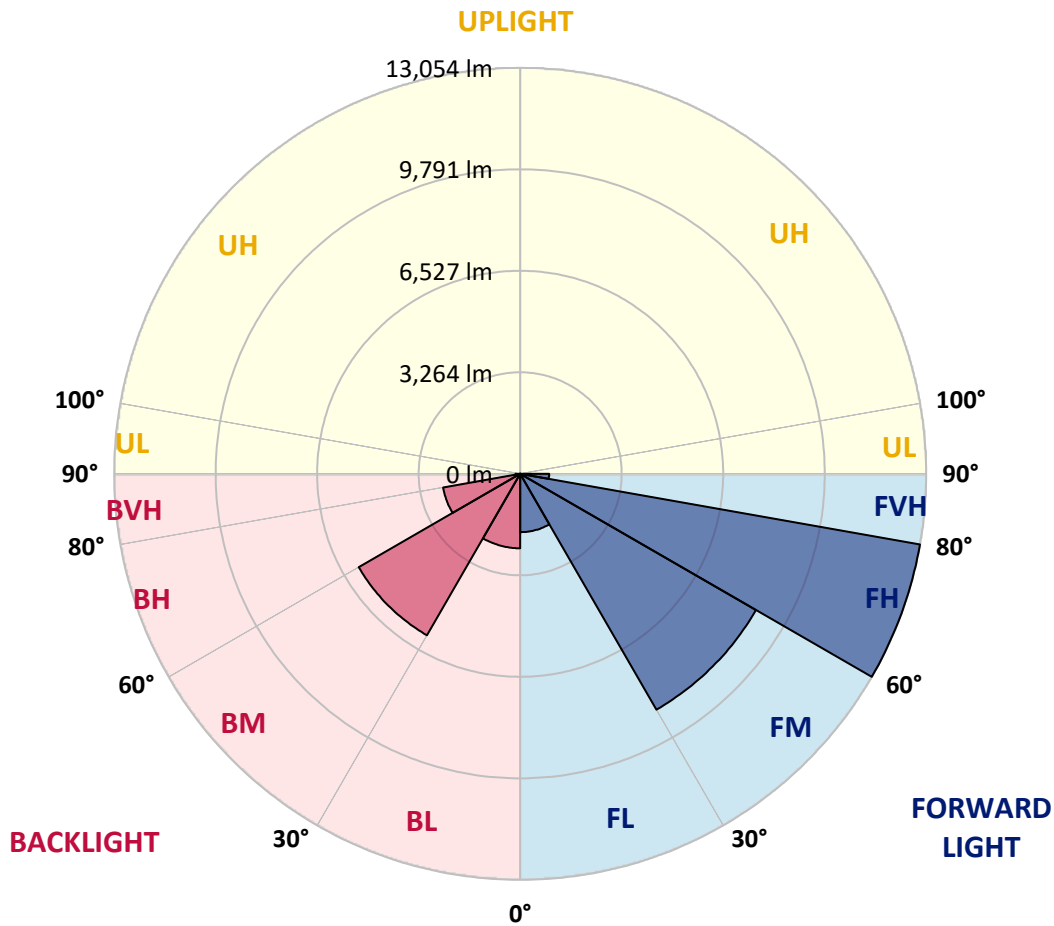


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1876.2	5.3			
FM (30°-60°)	8755.9	24.5			
FH (60°-80°)	13054.3	36.6			G5
FVH (80°-90°)	931.1	2.6			G5
BL (0°-30°)	2393.8	6.7	B3/2500		
BM (30°-60°)	5994.4	16.8	B4/8500		
BH (60°-80°)	2514.5	7.0	B4/5000		G4/5000
BVH (80°-90°)	148.7	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°	4078.8	4078.8	4078.8	4078.8	4078.8	4078.8	4078.8	4078.8	4078.8	4078.8
2.5°	4016.4	4039.1	4033.4	4025.8	4025.8	4027.7	4025.8	4039.1	4052.3	4065.6
5°	4058.0	4080.7	4069.3	4059.9	4052.3	4050.4	4044.7	4042.9	4050.4	4067.4
7.5°	4139.3	4162.0	4145.0	4128.0	4112.9	4105.3	4097.7	4086.4	4080.7	4090.1
10°	4230.1	4252.8	4232.0	4201.8	4177.2	4167.7	4160.1	4148.8	4141.2	4146.9
12.5°	4321.0	4343.7	4315.3	4273.7	4241.5	4235.8	4226.4	4222.6	4220.7	4218.8
15°	4406.1	4425.0	4389.1	4339.9	4305.8	4296.4	4286.9	4292.6	4302.0	4313.4
17.5°	4472.3	4491.2	4438.2	4373.9	4341.8	4338.0	4332.3	4351.2	4377.7	4406.1
20°	4532.8	4551.8	4483.7	4396.6	4358.8	4358.8	4360.7	4400.4	4438.2	4479.9
22.5°	4618.0	4633.1	4549.9	4430.7	4375.8	4379.6	4394.7	4434.5	4481.8	4538.5
25°	4744.7	4756.1	4653.9	4495.0	4432.6	4443.9	4457.2	4476.1	4521.5	4587.7
27.5°	4949.0	4958.5	4824.2	4608.5	4513.9	4532.8	4551.8	4538.5	4559.3	4616.1
30°	5236.6	5242.3	5072.0	4786.3	4652.0	4661.5	4665.3	4610.4	4570.7	4616.1
32.5°	5577.1	5575.2	5372.8	5002.0	4809.0	4799.6	4767.4	4659.6	4566.9	4606.6
35°	6105.0	6084.1	5823.1	5304.7	4986.9	4928.2	4852.6	4714.5	4585.8	4597.2
37.5°	6979.0	6914.7	6553.3	5800.4	5251.7	5102.3	4990.7	4803.4	4627.4	4593.4
40°	7964.6	7883.3	7486.0	6479.5	5649.0	5408.8	5229.0	4930.1	4695.5	4610.4
42.5°	9133.8	9018.4	8590.8	7279.8	6152.2	5804.2	5533.6	5090.9	4795.8	4665.3
45°	10569.7	10416.4	9811.1	8182.2	6786.0	6322.5	5961.2	5335.0	4949.0	4771.2
47.5°	12020.7	12058.6	11197.8	9215.1	7546.5	6962.0	6496.6	5702.0	5172.3	4941.5
50°	13562.6	13589.1	12576.9	10359.7	8409.2	7684.6	7098.2	6112.5	5482.5	5183.6
52.5°	14765.8	14769.6	13829.3	11557.2	9307.8	8479.2	7747.1	6581.7	5842.0	5505.2
55°	15518.7	15509.3	14707.1	12690.4	10340.8	9313.5	8466.0	7115.2	6280.9	5883.6
57.5°	16065.5	16037.1	15312.5	13664.7	11441.8	10299.2	9279.5	7720.6	6799.3	6333.9
60°	16273.6	16256.5	15723.0	14506.6	12599.6	11388.9	10217.8	8397.9	7387.6	6865.5
62.5°	16353.0	16385.2	16126.0	15322.0	13838.8	12595.8	11248.9	9207.6	8049.8	7467.1
65°	16633.0	16691.7	16638.7	16389.0	15238.7	14009.0	12616.7	10170.5	8772.4	8112.2
67.5°	17187.3	17246.0	17268.7	17666.0	16949.0	15770.3	14323.1	11369.9	9618.1	8781.9
70°	17174.1	17157.1	17558.1	18681.9	19090.5	18208.9	16623.6	12845.6	10626.4	9338.1
72.5°	15632.2	15496.0	16443.8	18670.5	20872.6	20755.3	19432.9	14748.8	11496.7	9406.2
75°	11727.5	11364.3	13038.5	16826.0	21169.6	22200.7	21218.8	15929.3	11290.5	8310.8
77.5°	5015.3	4650.1	6623.3	12455.8	18946.7	20753.4	19580.5	13897.4	9012.7	5495.8
80°	1312.9	1311.0	2001.6	5647.1	12885.3	15325.8	13445.3	8974.9	5149.6	1963.7
82.5°	543.0	529.7	735.9	2196.4	6296.0	8600.3	7018.7	4003.1	1859.7	531.6
85°	202.4	200.5	357.6	758.6	2221.0	3547.2	2567.2	1023.5	463.5	259.2
87.5°	56.8	54.9	77.6	263.0	541.1	821.1	438.9	168.4	130.5	102.2
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°
4078.8	0°	4078.8	4078.8	4078.8	4078.8	4078.8	4078.8	4078.8	4078.8	4078.8	4078.8
4086.4	2.5°	4092.0	4101.5	4118.5	4131.8	4148.8	4167.7	4194.2	4211.2	4228.3	4239.6
4095.8	5°	4109.1	4129.9	4173.4	4216.9	4268.0	4315.3	4370.1	4409.9	4442.0	4451.5
4129.9	7.5°	4146.9	4181.0	4254.7	4328.5	4409.9	4487.4	4566.9	4635.0	4689.9	4710.7
4190.4	10°	4213.1	4258.5	4362.6	4466.6	4574.5	4693.6	4795.8	4894.2	4971.7	5003.9
4262.3	12.5°	4296.4	4353.1	4489.3	4633.1	4782.6	4947.2	5079.6	5200.7	5297.1	5340.7
4362.6	15°	4404.2	4478.0	4652.0	4845.0	5064.4	5293.4	5461.7	5596.0	5703.9	5756.9
4466.6	17.5°	4521.5	4619.9	4839.3	5130.7	5444.7	5745.5	5942.3	6040.6	6152.2	6203.3
4563.1	20°	4635.0	4756.1	5070.1	5493.9	5912.0	6231.7	6390.6	6417.1	6424.7	6430.3
4653.9	22.5°	4752.3	4915.0	5359.6	5951.7	6400.1	6621.4	6644.1	6530.6	6371.7	6297.9
4742.8	25°	4880.9	5096.6	5737.9	6456.8	6820.1	6846.6	6672.5	6396.3	6095.5	5957.4
4814.7	27.5°	5005.8	5306.6	6192.0	6939.3	7122.8	6890.1	6515.5	6123.9	5760.6	5615.0
4865.8	30°	5130.7	5546.9	6693.3	7361.1	7260.9	6782.2	6267.7	5830.6	5465.5	5312.3
4911.2	32.5°	5257.4	5826.9	7270.3	7665.7	7236.3	6553.3	5959.3	5501.5	5179.8	5019.0
4950.9	35°	5401.2	6171.2	7817.1	7832.2	7071.7	6216.6	5552.5	5108.0	4828.0	4699.3
4998.2	37.5°	5588.5	6608.2	8299.5	7873.8	6784.1	5722.8	5047.4	4642.6	4411.8	4353.1
5068.2	40°	5821.2	7134.1	8668.4	7807.6	6358.5	5123.1	4495.0	4171.5	4041.0	4054.2
5162.8	42.5°	6123.9	7722.5	8927.6	7637.3	5766.3	4504.5	4010.7	3866.9	3929.3	3982.3
5304.7	45°	6517.4	8333.5	9088.4	7347.9	5096.6	3980.4	3725.0	3759.1	3806.4	3812.0
5533.6	47.5°	7020.6	8952.2	9194.3	6910.9	4413.7	3611.5	3543.4	3551.0	3541.5	3501.8
5876.0	50°	7648.7	9553.8	9288.9	6332.0	3832.9	3380.7	3289.9	3263.4	3132.9	3004.2
6332.0	52.5°	8363.8	10106.2	9328.6	5613.1	3380.7	3187.7	3040.2	2873.7	2629.7	2589.9
6905.2	55°	9158.4	10617.0	9226.5	4729.6	3000.5	2939.9	2716.7	2516.1	2489.7	2455.6
7660.0	57.5°	10108.1	11167.5	9018.4	3743.9	2610.7	2650.5	2432.9	2455.6	2408.3	2355.3
8630.6	60°	11146.7	11736.9	8653.3	2845.3	2207.8	2289.1	2359.1	2357.2	2344.0	2300.5
9654.0	62.5°	12081.3	12111.5	7934.4	2179.4	1854.0	2009.1	2200.2	2198.3	2187.0	2162.4
10722.9	65°	12637.5	12054.8	6734.9	1715.9	1562.7	1778.3	1984.5	1999.7	2001.6	1999.7
11527.0	67.5°	12539.1	11390.7	5089.0	1365.9	1322.4	1543.7	1770.8	1791.6	1806.7	1810.5
11629.1	70°	11426.7	9932.1	3318.3	1089.7	1108.6	1337.5	1568.3	1589.1	1602.4	1617.5
10091.1	72.5°	8906.8	7302.5	1899.4	881.6	921.3	1159.7	1367.8	1392.4	1400.0	1428.3
7022.5	75°	5427.7	4294.5	1025.4	694.3	756.7	991.3	1169.2	1197.5	1210.8	1244.8
3448.8	77.5°	2580.5	1859.7	584.6	541.1	609.2	809.7	987.5	1019.7	983.8	1002.7
951.6	80°	872.1	690.5	368.9	412.4	465.4	631.9	790.8	822.9	747.3	743.5
315.9	82.5°	304.6	280.0	234.6	274.3	300.8	452.1	597.8	639.4	556.2	554.3
141.9	85°	119.2	113.5	130.5	149.5	179.7	278.1	393.5	414.3	342.4	276.2
41.6	87.5°	24.6	26.5	32.2	34.1	54.9	96.5	141.9	174.0	138.1	117.3
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

180°
4078.8
4232.0
4455.3
4712.6
5005.8
5340.7
5753.1
6201.4
6445.5
6318.7
5978.2
5632.0
5329.3
5039.9
4727.7
4394.7
4099.6
4031.5
3849.9
3532.1
3021.3
2603.2
2461.3
2345.9
2285.3
2152.9
1999.7
1814.3
1625.1
1439.7
1248.6
987.5
735.9
527.8
272.4
107.8
0.0

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