

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: P941882

Luminaire Tested: **GALN-SB5C-850-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941882
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-850-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 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: 35870 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

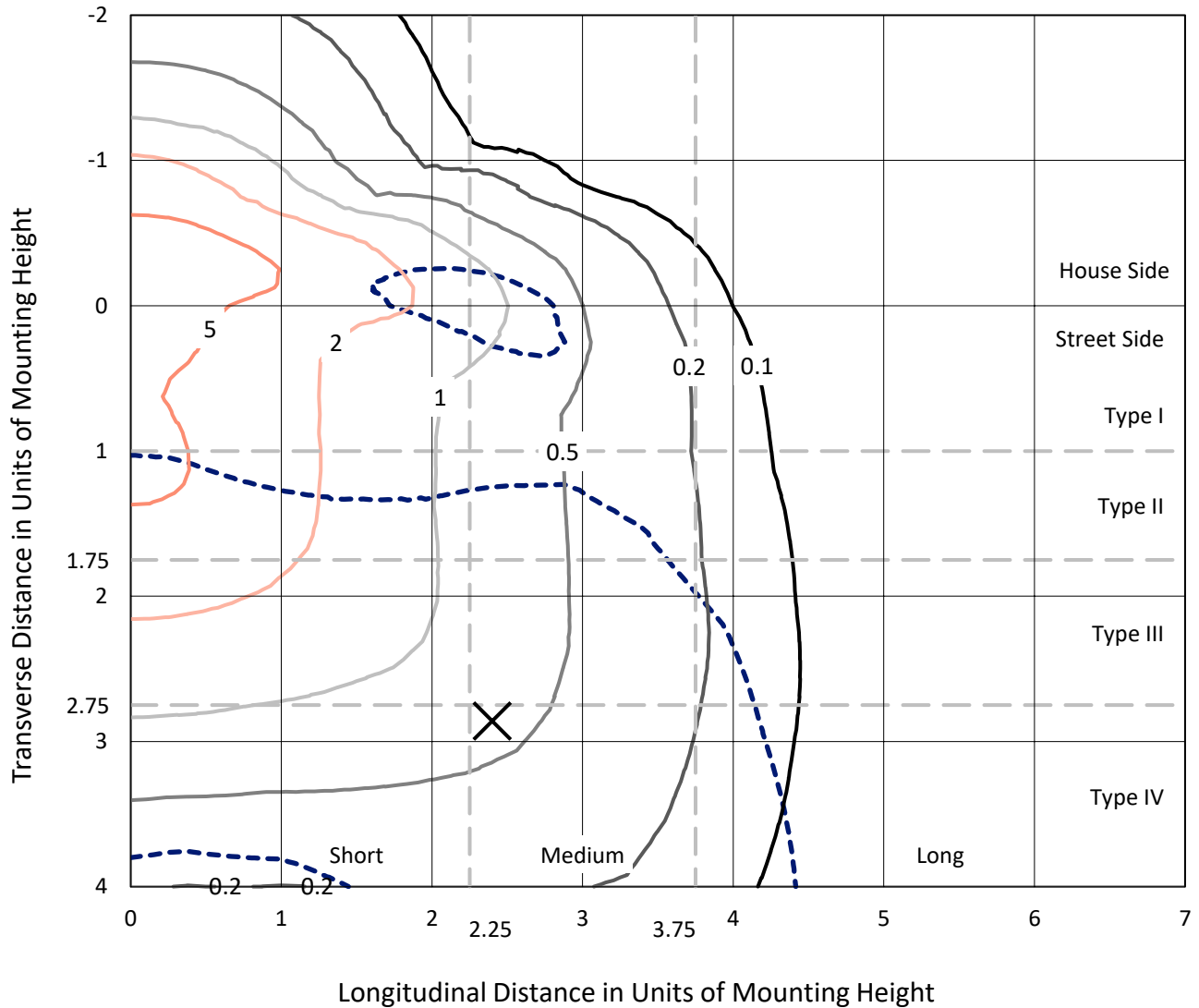
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

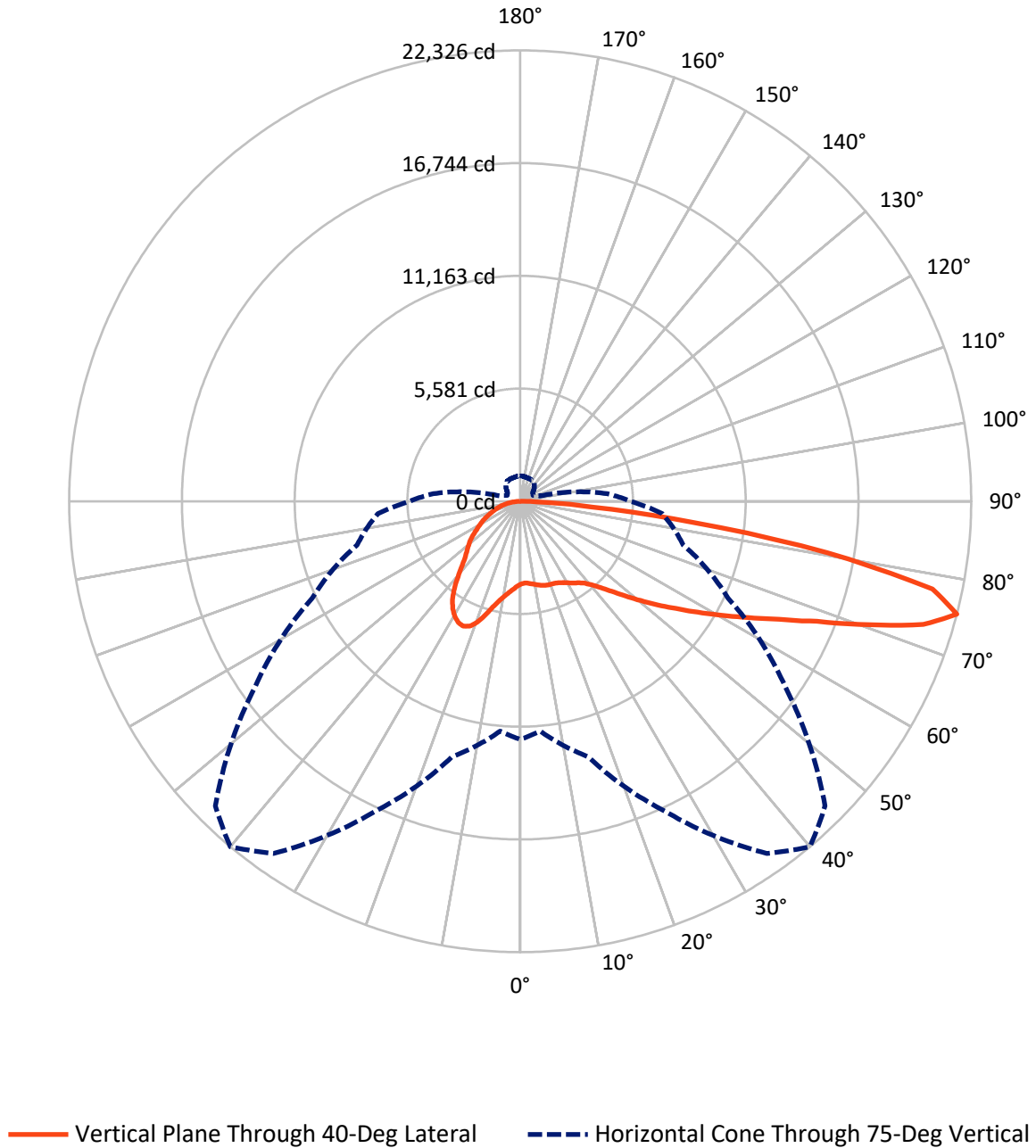
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	11113.7	0.0	11113.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	24756.3	0.0	24756.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	35870.0	0.0	35870.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.4	1.1
10°-20°	1374.7	3.8
20°-30°	2510.0	7.0
30°-40°	3559.9	9.9
40°-50°	4806.9	13.4
50°-60°	6466.6	18.0
60°-70°	8207.6	22.9
70°-80°	7448.9	20.8
80°-90°	1085.8	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°	35870.0	100.0
0°-180°	35870.0	100.0



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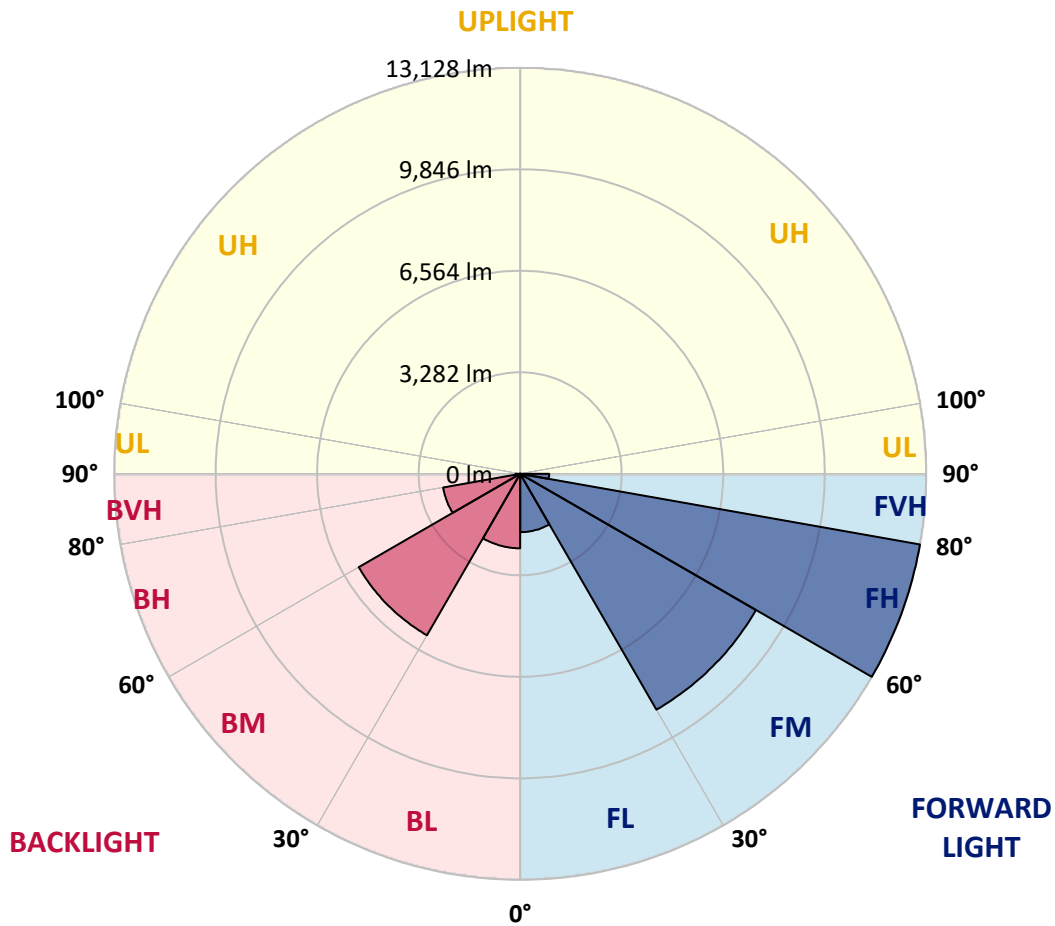
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1886.8	5.3			
FM (30°-60°)	8805.3	24.5			
FH (60°-80°)	13127.9	36.6			G5
FVH (80°-90°)	936.3	2.6			G5
BL (0°-30°)	2407.3	6.7	B3/2500		
BM (30°-60°)	6028.2	16.8	B4/8500		
BH (60°-80°)	2528.7	7.0	B4/5000		G4/5000
BVH (80°-90°)	149.5	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°	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8
2.5°	4039.0	4061.8	4056.1	4048.5	4048.5	4050.4	4048.5	4061.8	4075.1	4088.5
5°	4080.9	4103.7	4092.3	4082.8	4075.1	4073.2	4067.5	4065.6	4073.2	4090.4
7.5°	4162.7	4185.5	4168.4	4151.2	4136.0	4128.4	4120.8	4109.4	4103.7	4113.2
10°	4254.0	4276.8	4255.9	4225.4	4200.7	4191.2	4183.6	4172.2	4164.6	4170.3
12.5°	4345.3	4368.1	4339.6	4297.7	4265.4	4259.7	4250.2	4246.4	4244.5	4242.6
15°	4430.9	4449.9	4413.8	4364.3	4330.1	4320.6	4311.1	4316.8	4326.3	4337.7
17.5°	4497.5	4516.5	4463.3	4398.6	4366.2	4362.4	4356.7	4375.7	4402.4	4430.9
20°	4558.4	4577.4	4508.9	4421.4	4383.4	4383.4	4385.3	4425.2	4463.3	4505.1
22.5°	4644.0	4659.2	4575.5	4455.6	4400.5	4404.3	4419.5	4459.5	4507.0	4564.1
25°	4771.5	4782.9	4680.1	4520.3	4457.5	4469.0	4482.3	4501.3	4547.0	4613.6
27.5°	4976.9	4986.4	4851.4	4634.5	4539.4	4558.4	4577.4	4564.1	4585.0	4642.1
30°	5266.1	5271.8	5100.6	4813.3	4678.2	4687.8	4691.6	4636.4	4596.4	4642.1
32.5°	5608.6	5606.7	5403.1	5030.2	4836.1	4826.6	4794.3	4685.8	4592.6	4632.6
35°	6139.4	6118.4	5855.9	5334.6	5015.0	4956.0	4879.9	4741.0	4611.7	4623.1
37.5°	7018.3	6953.6	6590.2	5833.1	5281.3	5131.0	5018.8	4830.4	4653.5	4619.3
40°	8009.5	7927.7	7528.2	6516.1	5680.9	5439.2	5258.5	4957.9	4722.0	4636.4
42.5°	9185.3	9069.2	8639.2	7320.8	6186.9	5836.9	5564.8	5119.6	4822.8	4691.6
45°	10629.2	10475.1	9866.3	8228.3	6824.3	6358.1	5994.8	5365.0	4976.9	4798.1
47.5°	12088.5	12126.5	11260.9	9267.1	7589.1	7001.2	6533.2	5734.1	5201.4	4969.3
50°	13639.0	13665.6	12647.8	10418.1	8456.6	7727.9	7138.2	6147.0	5513.4	5212.8
52.5°	14849.0	14852.8	13907.2	11622.4	9360.3	8527.0	7790.7	6618.8	5874.9	5536.3
55°	15606.2	15596.7	14790.0	12761.9	10399.0	9366.0	8513.7	7155.3	6316.3	5916.8
57.5°	16156.0	16127.5	15398.8	13741.7	11506.3	10357.2	9331.7	7764.1	6837.6	6369.6
60°	16365.3	16348.2	15811.6	14588.3	12670.6	11453.0	10275.4	8445.2	7429.2	6904.2
62.5°	16445.2	16477.5	16216.9	15408.3	13916.8	12666.8	11312.2	9259.5	8095.1	7509.2
65°	16726.7	16785.7	16732.5	16481.3	15324.6	14088.0	12687.7	10227.8	8821.9	8157.9
67.5°	17284.2	17343.2	17366.0	17765.5	17044.5	15859.2	14403.8	11434.0	9672.3	8831.4
70°	17270.9	17253.7	17657.1	18787.2	19198.1	18311.5	16717.2	12918.0	10686.3	9390.7
72.5°	15720.3	15583.3	16536.5	18775.7	20990.2	20872.3	19542.4	14831.9	11561.5	9459.2
75°	11793.6	11428.3	13112.0	16920.8	21288.9	22325.8	21338.4	16019.0	11354.1	8357.7
77.5°	5043.5	4676.3	6660.6	12526.0	19053.5	20870.4	19690.8	13975.7	9063.5	5526.8
80°	1320.3	1318.4	2012.8	5679.0	12957.9	15412.1	13521.0	9025.4	5178.6	1974.8
82.5°	546.0	532.7	740.1	2208.8	6331.5	8648.7	7058.3	4025.7	1870.2	534.6
85°	203.6	201.7	359.6	762.9	2233.5	3567.2	2581.7	1029.3	466.1	260.6
87.5°	57.1	55.2	78.0	264.4	544.1	825.7	441.4	169.3	131.3	102.7
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°
4101.8	0°	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8
4109.4	2.5°	4115.1	4124.6	4141.7	4155.1	4172.2	4191.2	4217.8	4235.0	4252.1	4263.5
4118.9	5°	4132.2	4153.1	4196.9	4240.7	4292.0	4339.6	4394.8	4434.7	4467.1	4476.6
4153.1	7.5°	4170.3	4204.5	4278.7	4352.9	4434.7	4512.7	4592.6	4661.1	4716.3	4737.2
4214.0	10°	4236.9	4282.5	4387.2	4491.8	4600.2	4720.1	4822.8	4921.8	4999.8	5032.1
4286.3	12.5°	4320.6	4377.6	4514.6	4659.2	4809.5	4975.0	5108.2	5230.0	5327.0	5370.7
4387.2	15°	4429.0	4503.2	4678.2	4872.3	5093.0	5323.2	5492.5	5627.6	5736.0	5789.3
4491.8	17.5°	4547.0	4645.9	4866.6	5159.6	5475.4	5777.9	5975.7	6074.7	6186.9	6238.3
4588.8	20°	4661.1	4782.9	5098.7	5524.8	5945.3	6266.8	6426.6	6453.3	6460.9	6466.6
4680.1	22.5°	4779.1	4942.7	5389.8	5985.3	6436.1	6658.7	6681.6	6567.4	6407.6	6333.4
4769.6	25°	4908.4	5125.3	5770.3	6493.2	6858.5	6885.1	6710.1	6432.3	6129.8	5991.0
4841.9	27.5°	5034.0	5336.5	6226.9	6978.4	7162.9	6928.9	6552.2	6158.4	5793.1	5646.6
4893.2	30°	5159.6	5578.1	6731.0	7402.6	7301.8	6820.4	6303.0	5863.5	5496.3	5342.2
4938.9	32.5°	5287.0	5859.7	7311.3	7708.9	7277.0	6590.2	5992.9	5532.5	5209.0	5047.3
4978.8	35°	5431.6	6205.9	7861.1	7876.3	7111.5	6251.6	5583.8	5136.7	4855.2	4725.8
5026.4	37.5°	5620.0	6645.4	8346.3	7918.2	6822.4	5755.1	5075.9	4668.7	4436.6	4377.6
5096.8	40°	5854.0	7174.3	8717.2	7851.6	6394.3	5152.0	4520.3	4195.0	4063.7	4077.0
5191.9	42.5°	6158.4	7766.0	8977.9	7680.4	5798.8	4529.8	4033.3	3888.7	3951.5	4004.8
5334.6	45°	6554.1	8380.5	9139.6	7389.3	5125.3	4002.9	3746.0	3780.3	3827.8	3833.5
5564.8	47.5°	7060.2	9002.6	9246.1	6949.8	4438.5	3631.9	3563.4	3571.0	3561.5	3521.5
5909.2	50°	7691.8	9607.6	9341.3	6367.7	3854.5	3399.8	3308.4	3281.8	3150.5	3021.2
6367.7	52.5°	8410.9	10163.1	9381.2	5644.7	3399.8	3205.7	3057.3	2889.9	2644.5	2604.5
6944.1	55°	9210.0	10676.8	9278.5	4756.2	3017.4	2956.5	2732.0	2530.3	2503.7	2469.4
7703.2	57.5°	10165.0	11230.4	9069.2	3765.0	2625.4	2665.4	2446.6	2469.4	2421.9	2368.6
8679.2	60°	11209.5	11803.1	8702.0	2861.4	2220.2	2302.0	2372.4	2370.5	2357.2	2313.4
9708.4	62.5°	12149.3	12179.8	7979.1	2191.7	1864.4	2020.5	2212.6	2210.7	2199.3	2174.6
10783.3	65°	12708.7	12122.7	6772.9	1725.6	1571.5	1788.3	1995.7	2010.9	2012.8	2010.9
11591.9	67.5°	12609.7	11454.9	5117.7	1373.6	1329.8	1552.4	1780.7	1801.7	1816.9	1820.7
11694.6	70°	11491.1	9988.1	3337.0	1095.8	1114.9	1345.1	1577.2	1598.1	1611.4	1626.6
10147.9	72.5°	8957.0	7343.6	1910.1	886.6	926.5	1166.2	1375.5	1400.2	1407.8	1436.4
7062.1	75°	5458.3	4318.7	1031.2	698.2	761.0	996.9	1175.7	1204.3	1217.6	1251.8
3468.3	77.5°	2595.0	1870.2	587.9	544.1	612.6	814.3	993.1	1025.4	989.3	1008.3
957.0	80°	877.1	694.4	371.0	414.7	468.0	635.4	795.2	827.6	751.5	747.7
317.7	82.5°	306.3	281.6	235.9	275.9	302.5	454.7	601.2	643.0	559.3	557.4
142.7	85°	119.9	114.1	131.3	150.3	180.7	279.7	395.7	416.6	344.4	277.8
41.9	87.5°	24.7	26.6	32.3	34.2	55.2	97.0	142.7	175.0	138.9	118.0
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>
4101.8
4255.9
4480.4
4739.1
5034.0
5370.7
5785.5
6236.4
6481.8
6354.3
6011.9
5663.7
5359.3
5068.3
4754.3
4419.5
4122.7
4054.2
3871.6
3552.0
3038.3
2617.8
2475.1
2359.1
2298.2
2165.0
2010.9
1824.5
1634.2
1447.8
1255.6
993.1
740.1
530.8
274.0
108.4
0.0

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