

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: P941859

Luminaire Tested: **GALN-SB5C-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941859
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-SB5C-830-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33598 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

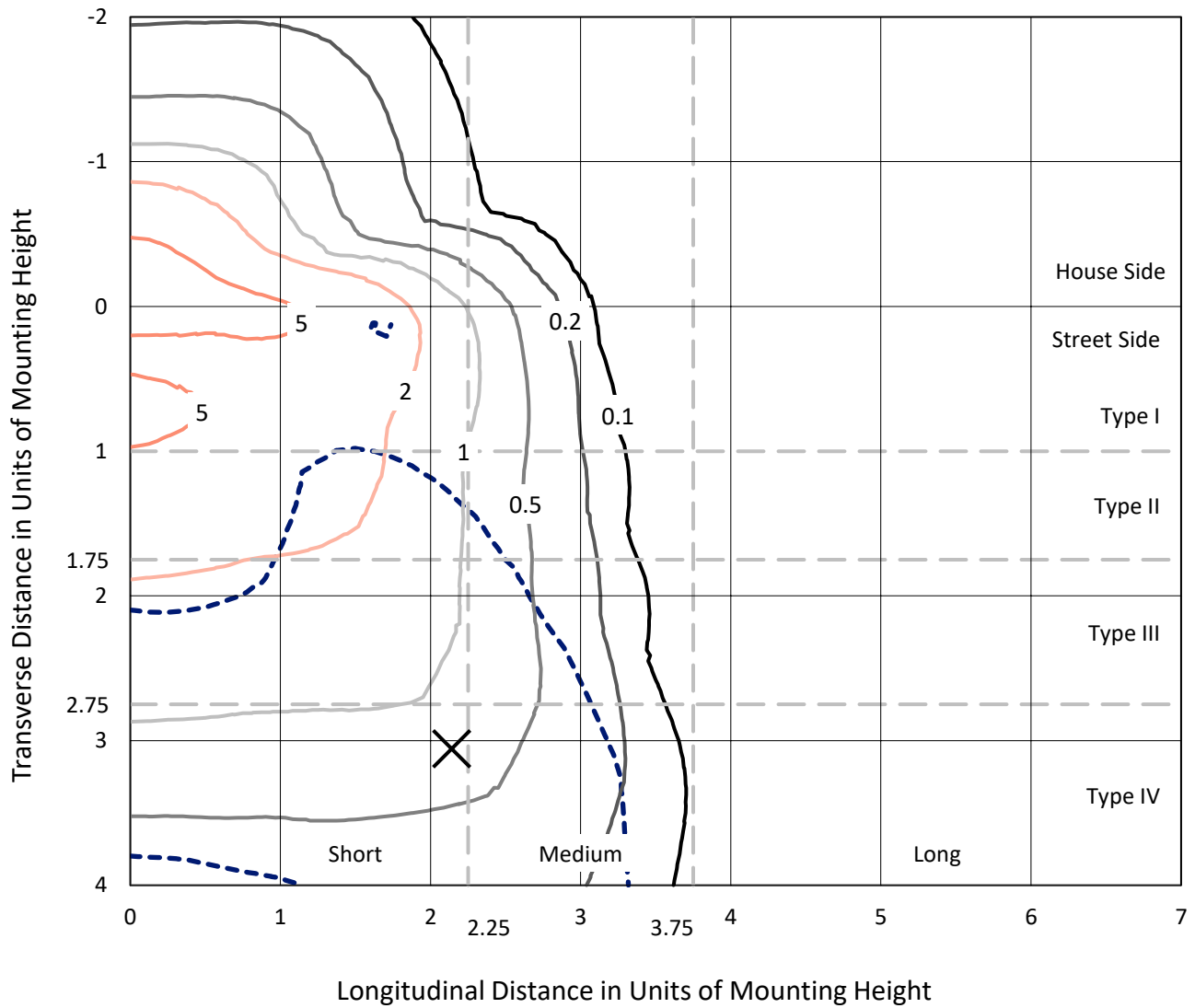
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

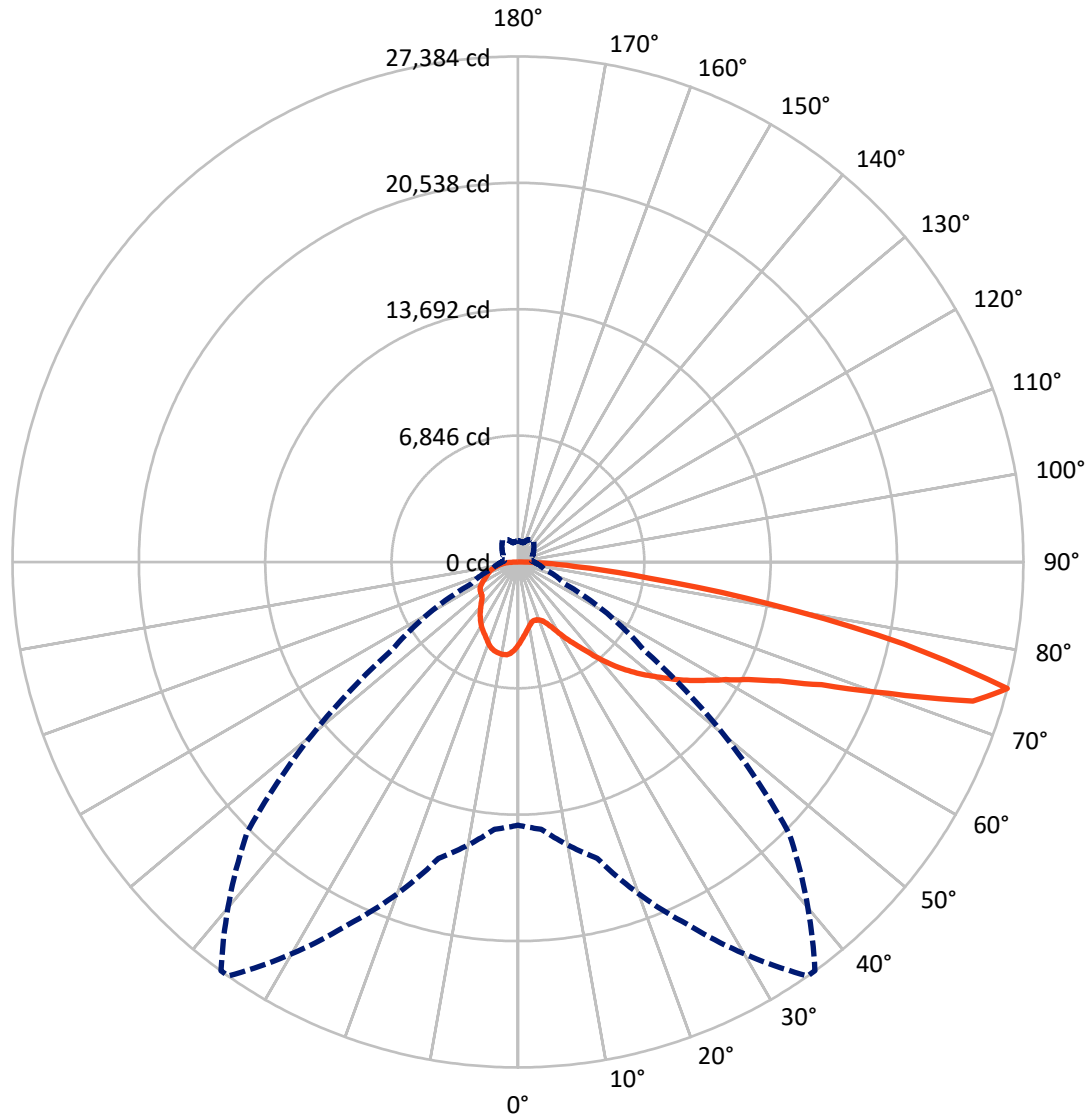
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	7995.5	0.0	7995.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	25602.5	0.0	25602.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	33598.0	0.0	33598.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.9	1.3
10°-20°	1222.7	3.6
20°-30°	2053.2	6.1
30°-40°	3191.0	9.5
40°-50°	4736.3	14.1
50°-60°	6538.8	19.5
60°-70°	7933.0	23.6
70°-80°	6556.0	19.5
80°-90°	943.0	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°	33598.0	100.0
0°-180°	33598.0	100.0

Coefficient of Utilization

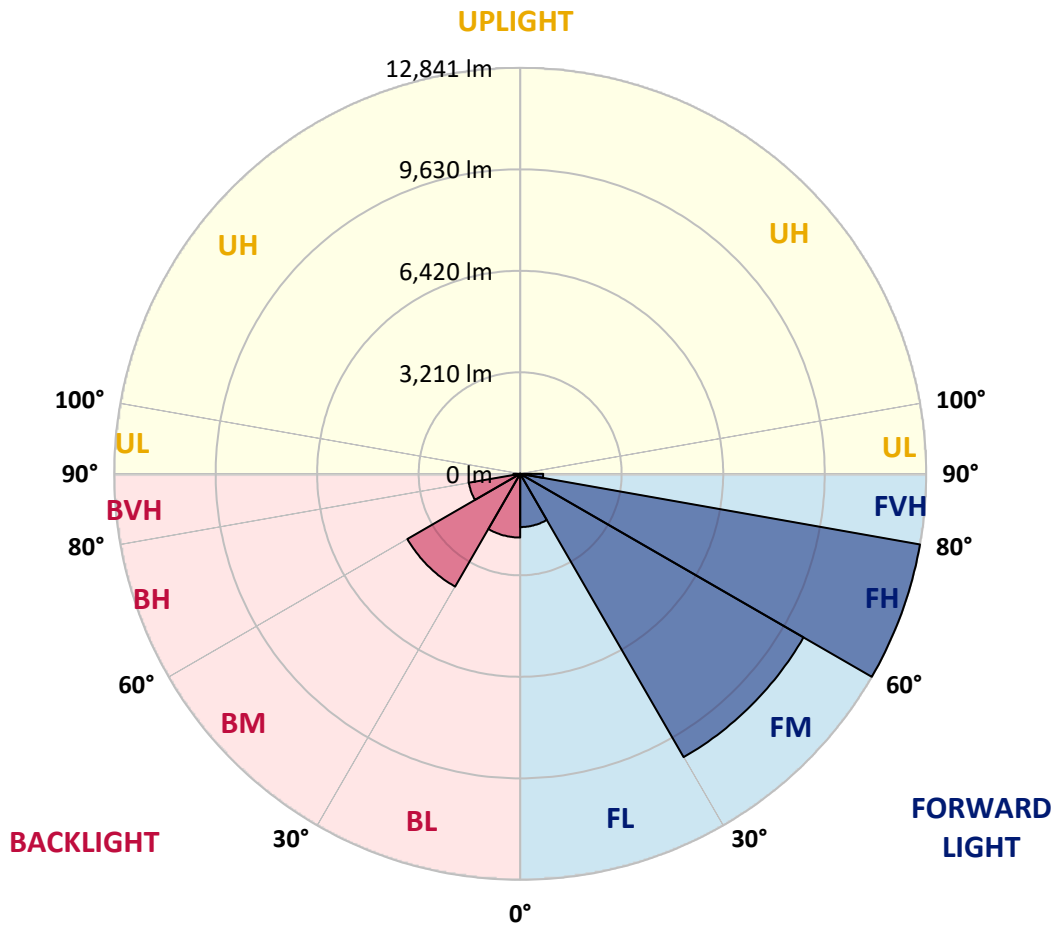


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1684.9	5.0			
FM (30°-60°)	10346.4	30.8			
FH (60°-80°)	12840.7	38.2			G5
FVH (80°-90°)	730.6	2.2			G4/750
BL (0°-30°)	2015.0	6.0	B3/2500		
BM (30°-60°)	4119.8	12.3	B3/5000		
BH (60°-80°)	1648.4	4.9	B3/2500		G3/2500
BVH (80°-90°)	212.3	0.6			G2/225
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°	4477.2	4477.2	4477.2	4477.2	4477.2	4477.2	4477.2	4477.2	4477.2	4477.2
2.5°	4128.4	4153.9	4164.8	4159.3	4186.6	4182.9	4221.1	4268.3	4333.7	4397.2
5°	3810.6	3837.8	3861.4	3883.2	3935.9	3952.3	4012.2	4103.0	4222.9	4344.6
7.5°	3514.5	3538.1	3574.5	3614.4	3703.4	3719.8	3819.7	3961.3	4128.4	4306.4
10°	3273.0	3296.6	3334.7	3380.1	3490.9	3510.9	3638.0	3826.9	4044.9	4270.1
12.5°	3169.4	3176.7	3198.5	3243.9	3340.2	3352.9	3492.7	3708.9	3963.2	4242.9
15°	3164.0	3178.5	3180.3	3203.9	3283.9	3289.3	3418.3	3632.6	3912.3	4237.4
17.5°	3218.5	3229.4	3213.0	3227.6	3294.8	3303.8	3405.5	3596.3	3895.9	4261.0
20°	3363.8	3372.9	3323.8	3303.8	3352.9	3360.1	3460.0	3619.9	3912.3	4310.1
22.5°	3672.5	3678.0	3558.1	3476.4	3480.0	3483.6	3570.8	3716.1	3975.9	4399.1
25°	4153.9	4150.2	3959.5	3801.5	3710.7	3690.7	3748.8	3872.3	4083.0	4517.1
27.5°	4716.9	4689.7	4499.0	4262.8	4064.9	4035.8	4023.1	4075.8	4235.6	4673.3
30°	5352.6	5327.2	5121.9	4813.2	4538.9	4491.7	4371.8	4344.6	4462.6	4885.8
32.5°	6050.1	6033.7	5788.5	5414.4	5047.5	4993.0	4791.4	4718.7	4811.4	5207.3
35°	6634.9	6620.4	6417.0	6031.9	5583.3	5516.1	5310.8	5229.1	5276.3	5619.6
37.5°	7163.5	7156.2	6981.8	6678.5	6215.4	6133.6	5903.0	5875.7	5866.6	6162.7
40°	7653.9	7635.7	7454.1	7294.2	6951.0	6876.5	6673.1	6649.4	6580.4	6831.1
42.5°	8196.9	8149.7	7886.3	7811.9	7719.2	7657.5	7535.8	7539.4	7386.9	7584.8
45°	8640.1	8612.9	8342.2	8298.6	8398.5	8373.1	8478.5	8505.7	8209.6	8374.9
47.5°	9116.0	9090.5	8861.7	8830.8	9101.4	9108.7	9481.0	9490.1	9012.4	9195.9
50°	9702.6	9666.3	9439.3	9477.4	9780.7	9808.0	10489.1	10427.3	9751.7	10029.6
52.5°	10089.5	10111.3	10062.3	10124.0	10538.1	10563.6	11480.8	11322.8	10483.6	10852.3
55°	10374.7	10418.3	10570.8	10712.5	11337.3	11362.7	12416.2	12174.6	11090.3	11615.2
57.5°	10741.6	10679.8	10965.0	11241.0	12096.5	12163.7	13326.1	12995.6	11627.9	12272.7
60°	11268.3	11224.7	11446.3	11854.9	12946.5	13053.7	14288.8	13734.8	12022.0	12794.0
62.5°	12336.3	12227.3	12261.8	12623.2	14018.1	14159.8	15374.9	14379.6	12218.2	12997.4
65°	13932.8	13745.7	13571.3	13822.0	15527.5	15667.3	16600.9	14886.3	12145.5	12603.3
67.5°	15943.4	15758.2	15543.8	15779.9	17750.6	17861.4	18113.9	15171.5	11573.4	11084.8
70°	17601.7	17532.7	17788.8	18760.5	21301.5	21305.1	20053.7	14935.4	10006.0	7859.1
72.5°	17381.9	17340.1	18689.6	21693.8	25776.8	25680.6	21890.0	13148.1	6740.3	3545.4
75°	14259.7	14530.3	16620.9	21641.1	27384.2	27371.5	20765.7	8358.6	2788.0	1469.4
77.5°	7646.6	8075.2	10790.6	15977.9	21377.8	21699.2	14599.4	2924.2	1196.9	940.8
80°	2493.8	2867.9	4301.0	8135.2	13891.0	13831.1	6257.1	1147.9	819.1	666.6
82.5°	1058.9	1102.5	1921.6	3841.5	7128.9	7018.2	1992.5	659.3	575.8	455.9
85°	414.1	463.2	848.2	1776.3	3087.7	3020.5	719.3	326.9	368.7	297.9
87.5°	136.2	165.3	303.3	608.5	960.8	926.3	176.2	112.6	159.8	136.2
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°
4477.2	0°	4477.2	4477.2	4477.2	4477.2	4477.2	4477.2	4477.2	4477.2	4477.2	4477.2
4489.9	2.5°	4515.3	4544.4	4578.9	4629.7	4673.3	4709.6	4747.8	4771.4	4780.5	4807.7
4497.1	5°	4548.0	4611.6	4696.9	4780.5	4862.2	4911.3	4954.8	4976.6	4996.6	5011.2
4517.1	7.5°	4602.5	4684.2	4818.6	4927.6	4996.6	5036.6	5065.6	5058.4	5065.6	5069.3
4538.9	10°	4649.7	4764.1	4924.0	5027.5	5080.2	5082.0	5074.7	5049.3	5036.6	5038.4
4571.6	12.5°	4706.0	4833.2	5005.7	5092.9	5107.4	5067.5	5036.6	4993.0	4976.6	4969.4
4620.6	15°	4782.3	4927.6	5094.7	5127.4	5091.1	5040.2	4987.5	4916.7	4880.4	4851.3
4704.2	17.5°	4874.9	5034.8	5163.7	5140.1	5062.0	4978.5	4893.1	4785.9	4711.5	4680.6
4818.6	20°	5003.9	5147.4	5216.4	5112.9	4994.8	4867.7	4722.4	4591.6	4522.6	4491.7
4963.9	22.5°	5160.1	5298.1	5267.2	5065.6	4898.5	4695.1	4513.5	4417.2	4382.7	4360.9
5151.0	25°	5347.2	5465.2	5303.6	4996.6	4740.5	4466.3	4326.4	4295.5	4279.2	4262.8
5379.9	27.5°	5590.5	5654.1	5330.8	4894.9	4493.5	4222.9	4172.0	4177.5	4172.0	4144.8
5697.7	30°	5912.0	5899.3	5356.2	4729.6	4210.2	4003.1	4006.7	4030.4	4034.0	4015.8
6140.9	32.5°	6335.2	6206.3	5369.0	4515.3	3939.5	3810.6	3814.2	3839.6	3857.8	3826.9
6720.3	35°	6847.4	6564.1	5349.0	4246.5	3730.7	3627.1	3599.9	3607.2	3612.6	3583.5
7423.2	37.5°	7445.0	6965.5	5260.0	3948.6	3558.1	3447.3	3389.2	3340.2	3311.1	3283.9
8218.7	40°	8100.7	7403.2	5096.5	3658.0	3365.6	3256.6	3169.4	3076.8	2978.7	2942.4
9061.5	42.5°	8787.2	7853.6	4898.5	3380.1	3144.0	3055.0	2962.4	2828.0	2680.8	2606.4
9936.9	45°	9499.2	8315.0	4704.2	3105.9	2917.0	2878.8	2771.7	2610.0	2450.2	2355.7
10814.2	47.5°	10196.7	8750.9	4419.0	2829.8	2704.5	2746.2	2662.7	2513.7	2335.8	2186.8
11684.2	50°	10863.2	9159.6	3952.3	2550.1	2531.9	2706.3	2626.4	2412.0	2208.6	2017.9
12537.9	52.5°	11524.4	9490.1	3354.7	2295.8	2439.3	2695.4	2579.1	2343.0	2094.2	1894.4
13340.7	55°	12085.6	9660.9	2778.9	2077.8	2304.9	2602.7	2522.8	2261.3	1932.5	1720.0
13891.0	57.5°	12405.3	9522.8	2299.4	1863.5	2119.6	2450.2	2426.6	2086.9	1740.0	1576.5
13998.2	60°	12267.2	8963.4	1907.1	1676.4	1943.4	2284.9	2259.5	1914.4	1592.9	1438.5
13424.2	62.5°	11506.2	7897.2	1596.5	1513.0	1783.6	2116.0	2092.4	1781.8	1480.3	1331.3
11900.3	65°	9973.3	6424.2	1355.0	1376.7	1621.9	1912.6	1947.1	1671.0	1391.3	1246.0
9206.8	67.5°	7606.6	4653.3	1166.1	1258.7	1463.9	1712.8	1812.7	1591.1	1316.8	1178.8
5327.2	70°	4335.5	2642.7	1006.2	1144.3	1324.1	1527.5	1709.1	1527.5	1236.9	1122.5
1996.1	72.5°	1643.7	1213.3	870.0	1029.8	1189.7	1371.3	1594.7	1427.6	1144.3	1058.9
1031.7	75°	877.3	739.2	732.0	895.4	1035.3	1218.7	1451.2	1329.5	1075.2	1118.8
713.8	77.5°	597.6	523.1	612.1	766.5	866.4	1049.8	1298.6	1180.6	931.8	928.1
494.0	80°	414.1	370.5	497.7	617.5	670.2	882.7	1133.4	1013.5	759.2	708.4
305.1	82.5°	248.8	241.6	372.3	461.3	474.1	681.1	939.0	850.0	621.2	541.3
181.6	85°	136.2	143.5	237.9	270.6	276.1	475.9	735.6	657.5	477.7	401.4
65.4	87.5°	38.1	49.0	87.2	107.2	132.6	247.0	437.7	390.5	239.8	167.1
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>
4477.2
4805.9
5014.8
5074.7
5042.0
4965.7
4860.4
4682.4
4488.1
4364.6
4262.8
4150.2
4024.9
3841.5
3603.5
3302.0
2958.7
2615.5
2348.5
2170.5
2001.6
1872.6
1701.9
1554.7
1416.7
1307.7
1222.4
1157.0
1107.9
1044.4
1155.2
855.5
677.5
544.9
405.0
167.1
0.0

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