

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: P951505

Luminaire Tested: **GALN-SB5C-850-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
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-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37148 lumens
Efficiency: N/A
Efficacy: 148.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

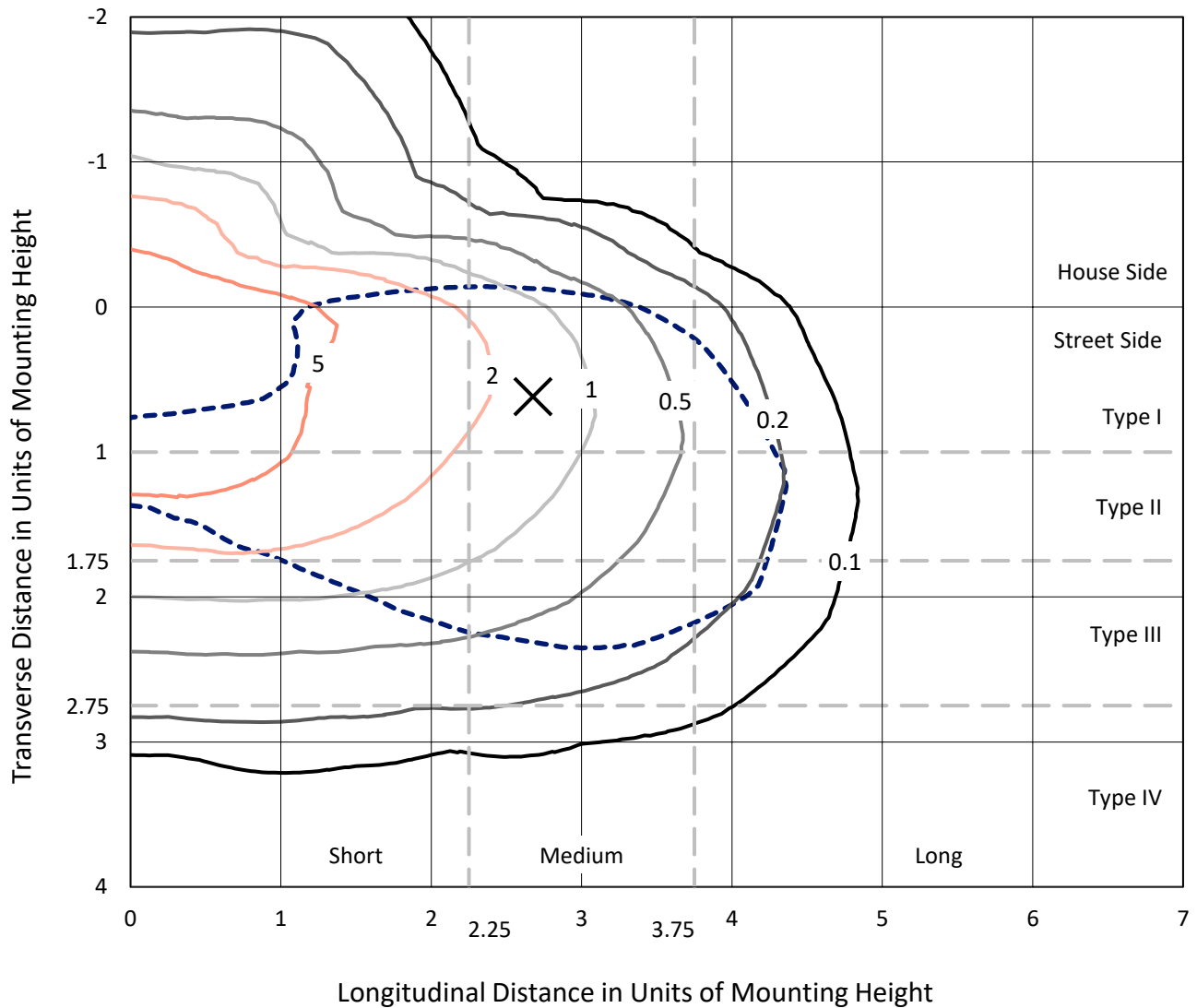
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

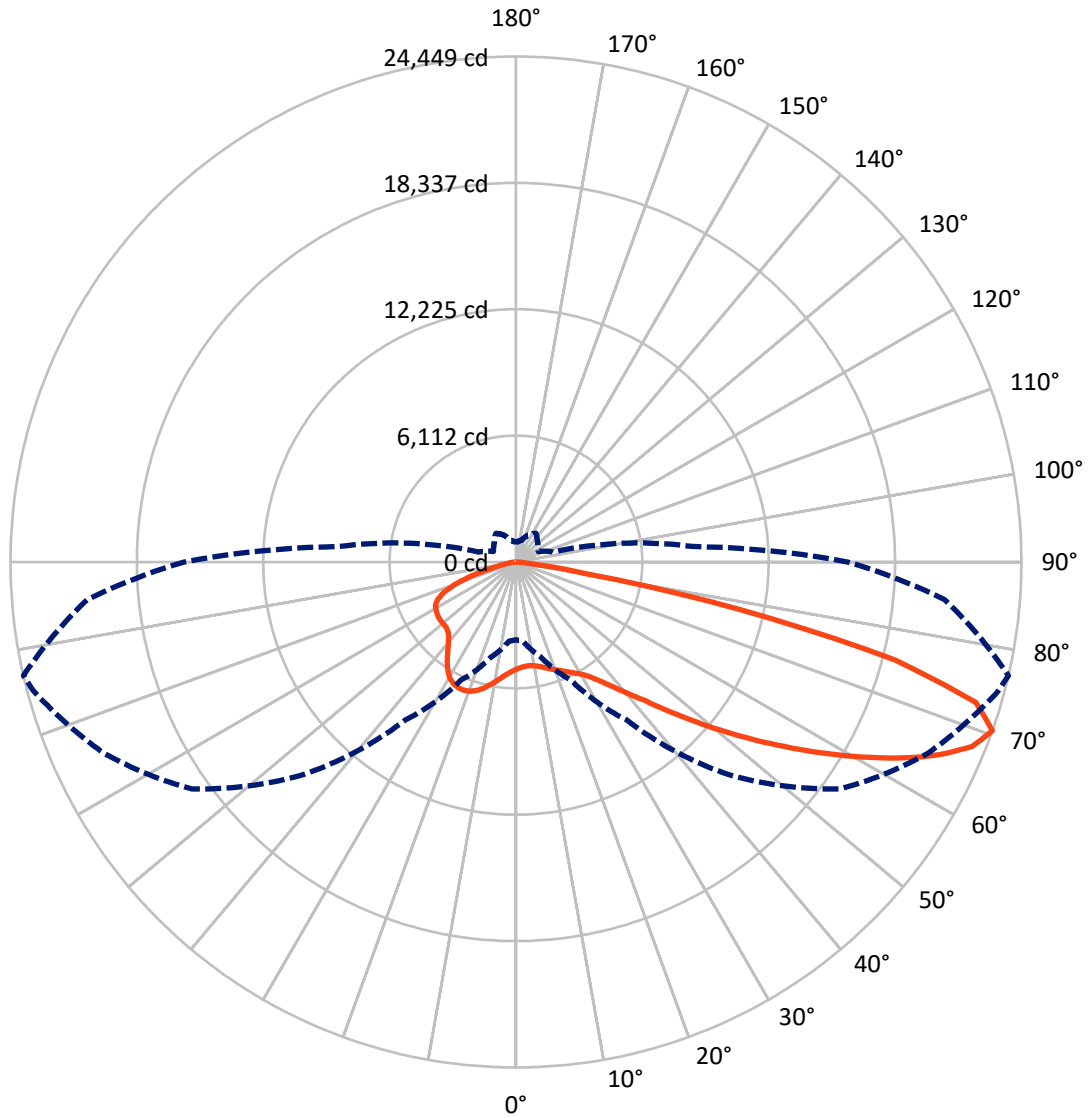
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8134.8	0.0	8134.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	29013.2	0.0	29013.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	37148.0	0.0	37148.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.3	1.3
10°-20°	1426.5	3.8
20°-30°	2439.5	6.6
30°-40°	3923.0	10.6
40°-50°	6124.9	16.5
50°-60°	8181.4	22.0
60°-70°	8720.1	23.5
70°-80°	5368.0	14.5
80°-90°	470.4	1.3
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°	37148.0	100.0
0°-180°	37148.0	100.0

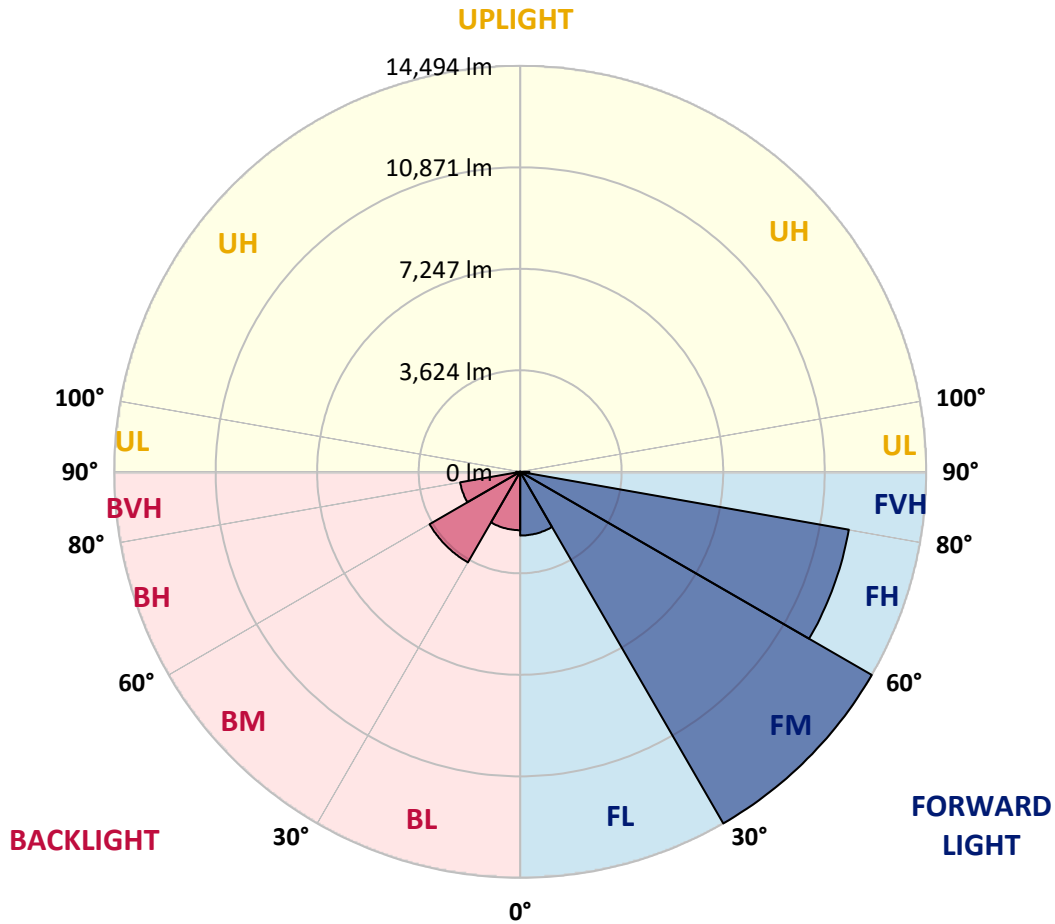


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2275.9	6.1			
FM (30°-60°)	14494.3	39.0			
FH (60°-80°)	11914.0	32.1			G4/12000
FVH (80°-90°)	328.9	0.9			G3/500
BL (0°-30°)	2084.4	5.6	B3/2500		
BM (30°-60°)	3734.9	10.1	B3/5000		
BH (60°-80°)	2174.1	5.9	B3/2500		G3/2500
BVH (80°-90°)	141.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5182.5	5182.5	5182.5	5182.5	5182.5	5182.5	5182.5	5182.5	5182.5	5182.5
2.5°	4777.2	4775.3	4800.1	4807.7	4853.3	4885.7	4946.6	5011.3	5095.0	5104.5
5°	4501.4	4501.4	4529.9	4560.4	4619.3	4684.0	4777.2	4889.5	5034.1	5056.9
7.5°	4267.4	4282.6	4307.3	4366.3	4434.8	4528.0	4670.7	4830.5	5020.8	5056.9
10°	4079.0	4096.1	4126.6	4174.1	4276.9	4406.3	4592.7	4798.2	5053.1	5110.2
12.5°	4020.0	4037.2	4054.3	4090.4	4185.6	4337.8	4560.4	4813.4	5131.1	5188.2
15°	4157.0	4178.0	4164.6	4155.1	4204.6	4343.5	4575.6	4868.6	5228.1	5310.0
17.5°	4472.8	4480.5	4450.0	4360.6	4353.0	4427.2	4647.9	4944.7	5349.9	5439.3
20°	4982.7	4969.4	4906.6	4729.7	4628.8	4613.6	4771.5	5058.8	5475.5	5570.6
22.5°	5675.2	5660.0	5534.5	5254.8	5030.3	4881.9	4950.4	5207.2	5616.3	5722.8
25°	6539.0	6518.1	6333.5	5953.0	5604.8	5237.7	5193.9	5403.2	5789.4	5888.3
27.5°	7547.3	7530.2	7330.4	6828.2	6325.9	5724.7	5496.4	5633.4	5970.1	6082.4
30°	8631.8	8681.2	8327.4	7787.0	7151.6	6360.1	5903.5	5916.9	6204.1	6305.0
32.5°	9906.5	9992.1	9565.9	8881.0	8013.4	7050.8	6417.2	6312.6	6544.7	6628.4
35°	11169.7	11266.8	10912.9	10155.7	9156.9	7865.0	6953.7	6767.3	6997.5	7088.8
37.5°	12261.8	12391.2	12208.5	11550.2	10380.2	8846.8	7653.9	7301.9	7554.9	7669.1
40°	13123.6	13321.5	13308.2	12897.2	11822.3	10037.7	8542.3	7962.1	8247.5	8371.1
42.5°	13823.8	13995.0	14143.4	14122.5	13327.2	11390.4	9586.8	8820.1	9037.0	9179.7
45°	14307.0	14489.6	14809.3	15153.6	14775.0	12838.3	10783.5	9838.0	10035.8	10250.8
47.5°	14738.9	14946.3	15361.0	15907.0	16004.1	14291.8	12094.4	11023.2	11204.0	11426.6
50°	14776.9	14955.8	15598.8	16373.2	16877.3	15688.2	13502.2	12353.1	12522.4	12760.3
52.5°	13858.0	14139.6	15262.1	16359.8	17278.8	16856.4	14900.6	13736.2	13926.5	14211.9
55°	10756.9	11169.7	14274.7	15850.0	17136.1	17611.7	16230.5	15206.9	15450.4	15749.1
57.5°	9265.3	9446.0	11331.5	14921.5	16485.4	17807.7	17353.0	16692.8	17084.7	17411.9
60°	8327.4	8477.7	9592.5	13477.5	15629.3	17497.5	18220.5	18077.8	18755.1	19145.1
62.5°	7322.8	7465.5	8479.6	11253.5	14533.4	16982.0	18768.4	19356.3	20467.4	20893.6
65°	6325.9	6447.7	7419.9	9455.6	13140.8	16466.4	19051.9	20461.7	22052.2	22493.6
67.5°	5214.8	5315.7	6234.6	7977.3	11447.5	15760.5	19192.7	21331.1	23431.5	23810.1
70°	3763.2	3841.2	4790.6	6308.8	9322.4	14546.7	19135.6	21947.6	24146.9	24449.4
72.5°	1778.9	1849.3	2964.1	4096.1	6584.6	12183.8	17980.8	21458.6	23420.1	23269.8
75°	949.4	1010.2	1702.8	2246.9	3477.8	8352.1	14714.1	18485.0	19666.4	18935.9
77.5°	643.1	690.6	1054.0	1348.9	1588.6	3964.9	9457.5	12798.3	12313.2	11107.0
80°	509.9	559.3	863.7	913.2	768.6	1432.6	3907.8	5924.5	4256.0	3403.6
82.5°	391.9	447.1	726.8	662.1	418.6	587.9	1137.7	1874.0	1090.1	829.5
85°	239.7	298.7	570.8	422.4	235.9	268.3	386.2	521.3	332.9	277.8
87.5°	121.8	171.2	289.2	154.1	106.5	62.8	102.7	102.7	87.5	76.1
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°
5182.5	0°	5182.5	5182.5	5182.5	5182.5	5182.5	5182.5	5182.5	5182.5	5182.5	5182.5
5155.8	2.5°	5201.5	5239.6	5304.2	5365.1	5412.7	5458.4	5504.0	5528.7	5536.4	5566.8
5184.4	5°	5262.4	5332.8	5458.4	5576.3	5650.5	5696.2	5728.5	5747.5	5751.3	5760.9
5262.4	7.5°	5374.6	5486.9	5661.9	5779.9	5835.1	5831.2	5817.9	5770.4	5751.3	5734.2
5376.5	10°	5532.5	5680.9	5895.9	5977.7	5943.5	5852.2	5734.2	5595.3	5530.6	5467.9
5532.5	12.5°	5728.5	5916.9	6128.0	6124.2	5954.9	5720.9	5446.9	5233.9	5098.8	5001.7
5724.7	15°	5966.3	6183.2	6344.9	6215.6	5844.6	5424.1	5022.7	4744.9	4623.1	4516.6
5918.8	17.5°	6211.8	6443.9	6518.1	6187.0	5566.8	4984.6	4529.9	4311.1	4191.3	4134.2
6128.0	20°	6451.5	6681.7	6620.8	6023.4	5144.4	4486.2	4080.9	3961.1	3936.3	3949.6
6331.6	22.5°	6704.5	6910.0	6641.7	5707.6	4606.0	3976.3	3753.7	3757.5	3812.7	3852.6
6544.7	25°	6963.3	7102.1	6586.6	5251.0	4027.7	3601.5	3546.3	3607.2	3715.6	3793.6
6784.4	27.5°	7212.5	7273.4	6466.7	4685.9	3531.1	3333.2	3342.7	3468.3	3631.9	3740.4
7075.5	30°	7494.1	7425.6	6236.5	4050.5	3186.7	3103.0	3182.9	3329.4	3493.0	3590.1
7442.7	32.5°	7811.8	7556.8	5871.2	3462.6	2943.2	2918.5	3049.8	3144.9	3217.2	3245.7
7929.7	35°	8207.5	7741.4	5403.2	3049.8	2724.4	2783.4	2909.0	2861.4	2832.9	2817.6
8584.2	37.5°	8721.2	7990.6	4855.3	2781.5	2547.5	2686.4	2737.7	2589.3	2477.1	2421.9
9377.6	40°	9339.5	8355.9	4328.3	2574.1	2435.2	2602.7	2513.2	2334.4	2191.7	2113.7
10269.8	42.5°	10026.3	8738.3	3885.0	2418.1	2372.5	2534.2	2347.7	2134.6	1904.4	1879.7
11333.4	45°	10747.4	9132.1	3582.5	2298.3	2342.0	2475.2	2252.6	1908.2	1744.6	1845.5
12400.7	47.5°	11468.4	9493.6	3399.8	2208.8	2326.8	2408.6	2168.9	1782.7	1666.6	1813.1
13544.1	50°	12271.3	9817.0	3318.0	2144.1	2309.7	2382.0	2043.3	1750.3	1584.8	1681.8
14727.5	52.5°	13068.5	10068.2	3257.1	2079.5	2284.9	2361.0	1982.4	1712.3	1485.9	1491.6
15918.4	55°	13863.7	10231.8	3190.5	1993.8	2229.8	2315.4	1976.7	1670.4	1411.7	1385.0
17177.9	57.5°	14712.2	10325.0	3108.7	1898.7	2134.6	2199.3	1971.0	1638.1	1388.8	1345.1
18465.9	60°	15576.0	10462.0	3002.2	1782.7	2007.2	2060.4	1957.7	1626.7	1375.5	1301.3
19679.7	62.5°	16350.3	10509.6	2874.7	1672.3	1843.5	1923.5	1929.2	1617.1	1339.4	1211.9
20688.1	65°	16858.3	10304.1	2652.1	1546.8	1666.6	1782.7	1874.0	1584.8	1274.7	1147.2
21186.5	67.5°	16837.4	9718.1	2304.0	1385.0	1495.4	1626.7	1794.1	1529.6	1196.7	1067.3
20809.8	70°	16053.5	8561.4	1862.6	1196.7	1307.0	1459.2	1691.3	1447.8	1103.5	979.8
18504.0	72.5°	13768.6	6700.7	1352.7	976.0	1088.2	1286.1	1558.2	1348.9	1008.3	901.8
13675.4	75°	9836.1	4240.7	917.0	749.6	846.6	1090.1	1392.7	1232.8	920.8	905.6
6849.1	77.5°	5024.6	2026.2	606.9	547.9	589.8	859.9	1170.1	1101.6	934.1	747.7
1948.2	80°	1634.3	747.7	382.4	372.9	391.9	572.7	905.6	903.7	707.7	508.0
471.8	82.5°	521.3	321.5	249.2	239.7	230.2	359.6	631.6	715.4	477.5	321.5
169.3	85°	207.4	192.2	146.5	135.1	97.0	169.3	331.0	475.6	355.8	232.1
43.8	87.5°	76.1	76.1	40.0	28.5	20.9	57.1	89.4	142.7	203.6	119.9
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>
5182.5
5583.9
5776.1
5738.0
5448.8
4978.9
4505.2
4151.3
3943.9
3862.1
3814.6
3767.0
3612.9
3260.9
2832.9
2435.2
2119.4
1904.4
1898.7
1881.6
1754.1
1531.5
1404.1
1350.8
1307.0
1211.9
1147.2
1073.0
991.2
896.1
854.2
665.9
449.0
319.6
237.8
118.0
0.0

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