

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: P954300

Luminaire Tested: **GALN-SB7C-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-830-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47763 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

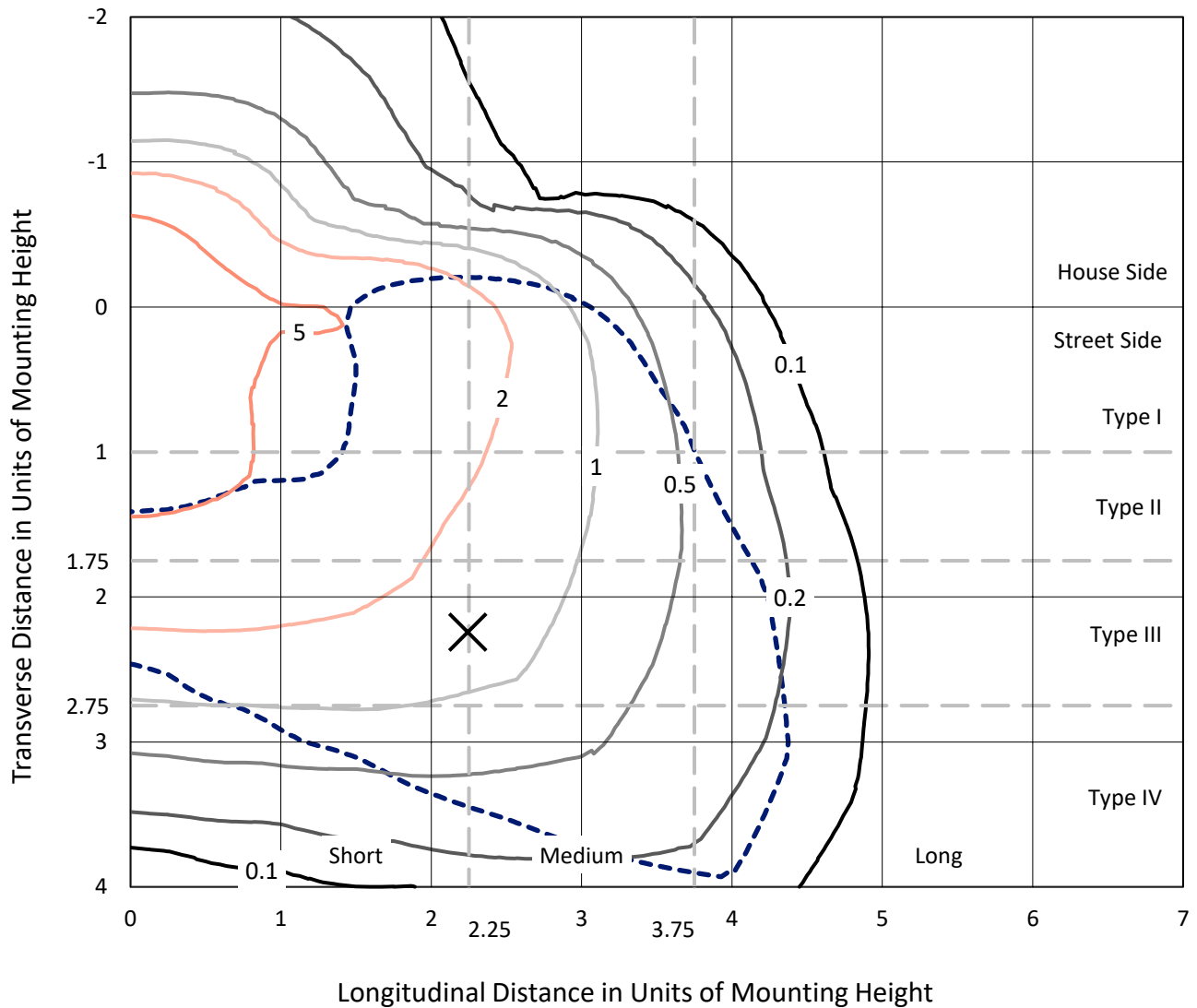
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

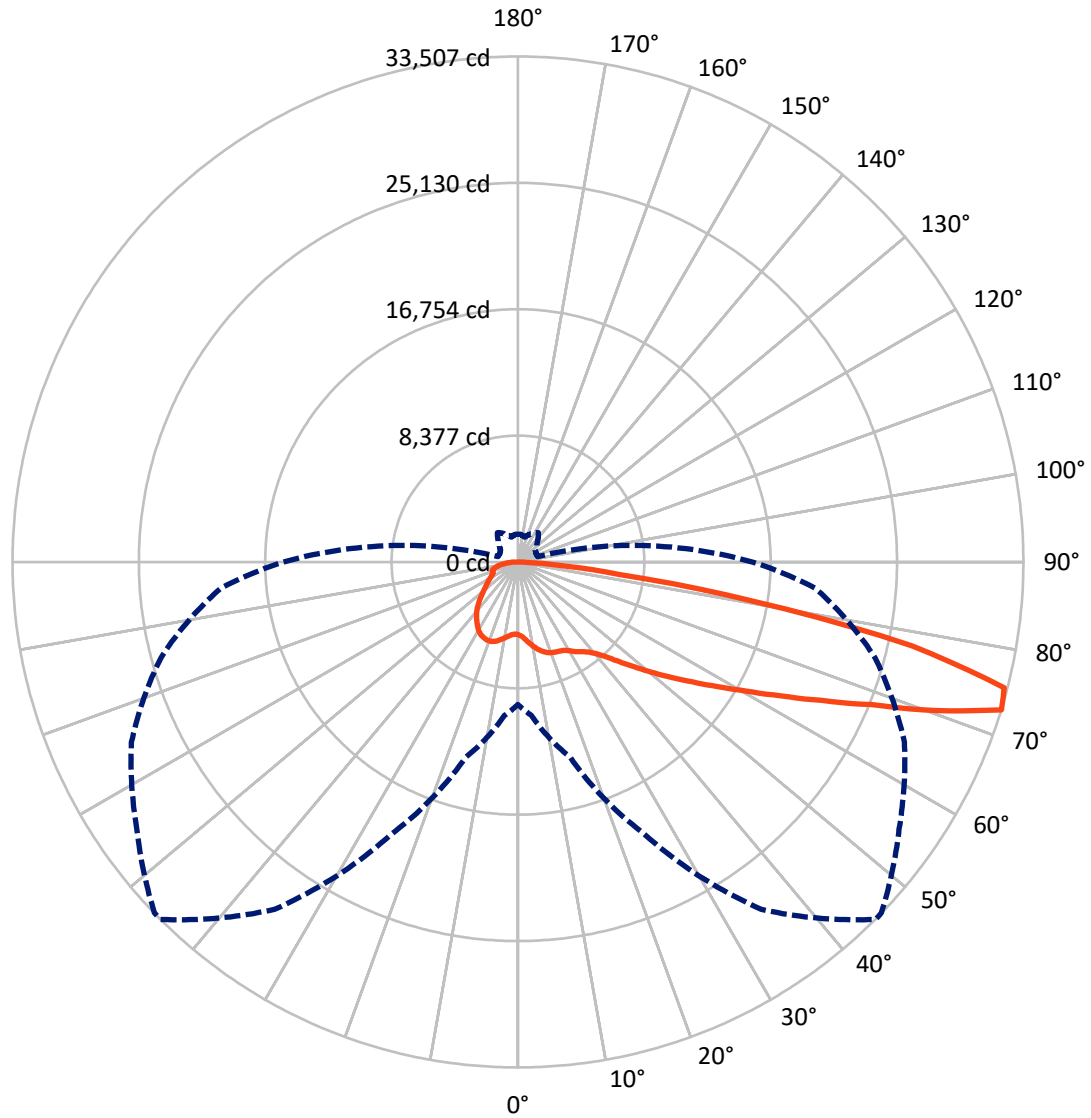
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10797.6	0.0	10797.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	36965.4	0.0	36965.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	47763.0	0.0	47763.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.4	1.0
10°-20°	1635.1	3.4
20°-30°	2844.4	6.0
30°-40°	4077.5	8.5
40°-50°	5741.4	12.0
50°-60°	8794.2	18.4
60°-70°	12739.6	26.7
70°-80°	10173.4	21.3
80°-90°	1267.1	2.7
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°	47763.0	100.0
0°-180°	47763.0	100.0

Coefficient of Utilization

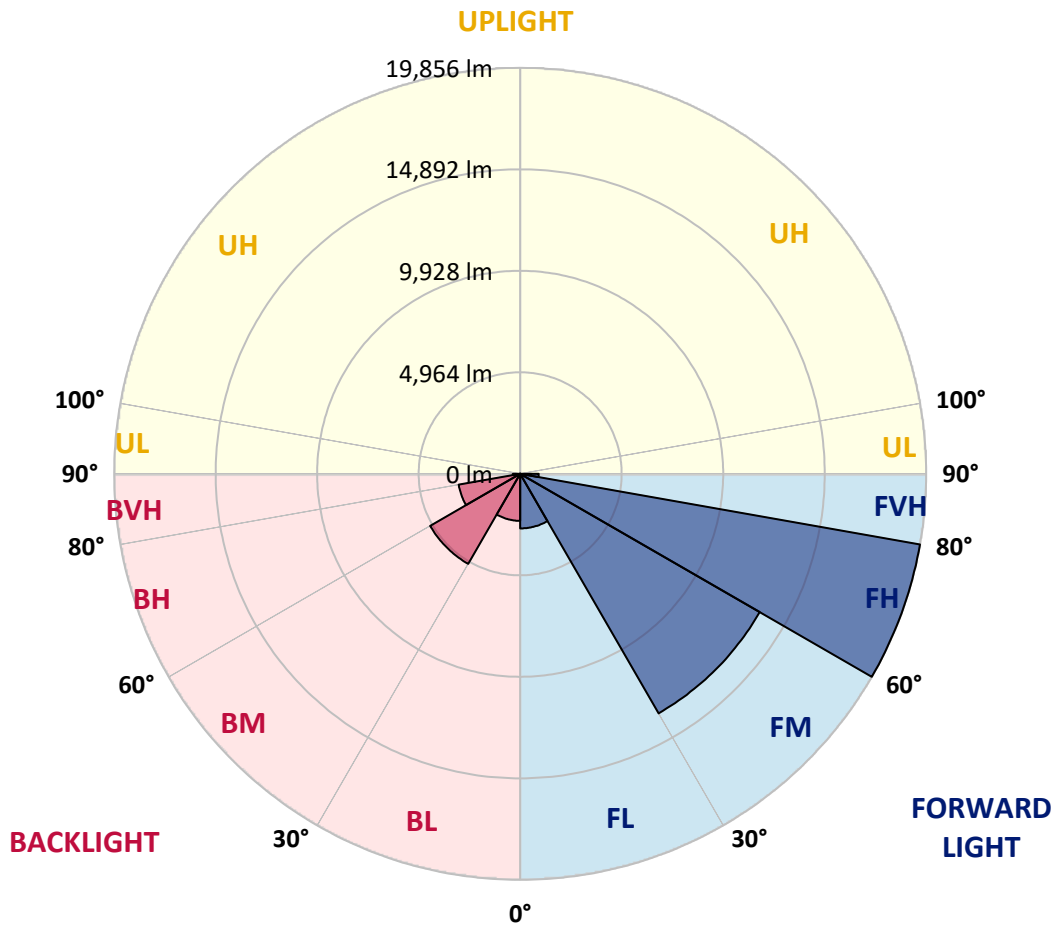


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2671.0	5.6			
FM (30°-60°)	13529.0	28.3			
FH (60°-80°)	19856.5	41.6			G5
FVH (80°-90°)	909.0	1.9			G5
BL (0°-30°)	2298.9	4.8	B3/2500		
BM (30°-60°)	5084.1	10.6	B4/8500		
BH (60°-80°)	3056.5	6.4	B4/5000		G4/5000
BVH (80°-90°)	358.1	0.7			G3/500
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4
2.5°	5007.1	5039.8	5009.6	4981.9	4969.3	4936.6	4934.1	4914.0	4901.4	4866.2
5°	5356.8	5399.6	5349.3	5293.9	5243.6	5163.1	5153.0	5095.1	5029.7	4954.2
7.5°	5751.8	5789.6	5731.7	5648.7	5560.6	5427.3	5424.7	5319.1	5215.9	5087.6
10°	6096.5	6146.9	6068.9	5955.6	5844.9	5694.0	5676.4	5555.6	5424.7	5258.7
12.5°	6401.0	6436.2	6360.7	6222.3	6094.0	5943.1	5920.4	5787.1	5641.1	5452.4
15°	6642.5	6687.8	6587.2	6438.7	6302.9	6154.4	6134.3	6013.5	5867.6	5668.8
17.5°	6801.1	6838.8	6735.6	6569.6	6438.7	6315.4	6300.3	6199.7	6071.4	5870.1
20°	6861.4	6901.7	6793.5	6624.9	6504.2	6408.5	6401.0	6328.0	6240.0	6056.3
22.5°	6921.8	6959.6	6818.7	6642.5	6536.9	6476.5	6474.0	6426.2	6390.9	6240.0
25°	7165.9	7176.0	6987.2	6733.1	6582.2	6529.3	6526.8	6524.3	6539.4	6421.1
27.5°	7377.2	7374.7	7213.7	6974.7	6740.7	6630.0	6627.4	6652.6	6700.4	6602.3
30°	7686.7	7659.0	7467.8	7218.7	7004.9	6833.8	6818.7	6796.0	6833.8	6755.8
32.5°	8343.4	8255.4	7945.9	7503.1	7223.8	7092.9	7072.8	6931.9	6947.0	6899.2
35°	9284.5	9168.7	8756.1	8041.5	7495.5	7309.3	7299.2	7120.6	7090.4	7047.6
37.5°	10404.1	10260.7	9780.1	8821.5	7963.5	7560.9	7545.8	7384.8	7261.5	7216.2
40°	11528.8	11347.7	10950.1	9772.6	8652.9	7981.1	7933.3	7689.2	7548.3	7472.9
42.5°	12620.8	12469.9	12130.2	10839.4	9503.4	8595.0	8489.4	8071.7	7966.0	7895.6
45°	13587.0	13451.1	13202.0	11979.2	10499.7	9430.4	9327.2	8645.4	8612.7	8612.7
47.5°	14372.0	14341.8	14077.7	13141.7	11674.8	10381.5	10202.8	9443.0	9531.0	9666.9
50°	15242.6	15159.6	14877.8	14286.5	13056.1	11471.0	11325.0	10421.7	10751.4	11123.7
52.5°	16042.7	16088.0	15773.5	15479.1	14616.1	12686.2	12429.6	11576.6	12288.7	12905.1
55°	16865.5	16868.0	16780.0	16739.7	16251.6	14029.8	13748.0	12965.5	14097.8	14862.7
57.5°	17638.0	17643.0	17773.8	18128.6	18148.7	15579.8	15260.2	14671.5	16108.2	16888.2
60°	18327.4	18362.6	18719.9	19550.2	19816.9	17356.1	17054.2	16686.9	18186.5	18971.5
62.5°	18558.9	18687.2	19482.3	20662.3	21465.0	19535.1	19238.2	19019.3	20370.5	21100.1
65°	18166.3	18460.7	19998.1	21580.7	23160.8	22124.2	21829.8	21590.8	22640.0	23326.9
67.5°	17202.7	17582.6	19967.9	22544.4	25219.0	25239.1	24964.9	24403.8	25073.1	25337.3
70°	14663.9	15232.6	18209.1	22904.2	27581.6	29498.9	29234.7	27790.5	27501.1	26222.9
72.5°	9448.0	10212.9	13408.4	19942.7	28107.5	33507.1	33492.0	30847.5	28268.5	24501.9
75°	3447.1	3915.1	6229.9	12517.7	23593.6	33303.3	33401.4	30324.2	25805.3	18926.2
77.5°	1255.5	1373.8	2033.0	4810.8	14510.4	26721.1	26924.9	24242.8	18367.6	9498.3
80°	659.2	724.6	1041.7	1867.0	6217.3	15869.1	16188.7	14407.3	8632.8	2860.8
82.5°	364.8	395.0	583.7	1014.0	2800.4	6786.0	6977.2	5691.4	3036.9	1212.8
85°	196.3	208.8	274.3	553.5	1368.8	2352.6	2405.4	1700.9	1210.3	712.1
87.5°	57.9	70.5	90.6	176.1	535.9	528.4	541.0	337.2	478.1	359.8
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°
4818.4	0°	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4
4856.1	2.5°	4841.0	4833.5	4805.8	4793.2	4778.1	4775.6	4788.2	4790.7	4793.2	4795.7
4911.5	5°	4886.3	4861.1	4836.0	4820.9	4825.9	4828.4	4853.6	4871.2	4883.8	4893.8
5014.6	7.5°	4974.4	4954.2	4911.5	4908.9	4916.5	4939.1	4971.8	5012.1	5034.7	5052.4
5148.0	10°	5105.2	5067.5	5017.1	5024.7	5039.8	5072.5	5140.4	5173.1	5210.9	5243.6
5311.5	12.5°	5238.5	5205.8	5148.0	5153.0	5178.2	5236.0	5301.5	5341.7	5366.9	5392.0
5487.6	15°	5412.2	5354.3	5291.4	5291.4	5336.7	5399.6	5429.8	5462.5	5477.6	5505.3
5676.4	17.5°	5590.8	5515.3	5432.3	5427.3	5482.6	5512.8	5530.4	5535.4	5540.5	5570.7
5860.0	20°	5769.4	5686.4	5568.2	5558.1	5570.7	5565.6	5563.1	5558.1	5565.6	5603.4
6048.7	22.5°	5945.6	5850.0	5686.4	5641.1	5605.9	5558.1	5555.6	5553.1	5558.1	5595.8
6252.5	25°	6151.9	6036.2	5817.3	5681.4	5563.1	5497.7	5505.3	5507.8	5512.8	5543.0
6463.9	27.5°	6375.8	6247.5	5938.0	5668.8	5454.9	5409.6	5397.1	5404.6	5422.2	5470.0
6675.2	30°	6599.8	6448.8	6048.7	5618.5	5319.1	5256.2	5215.9	5233.5	5288.9	5336.7
6858.9	32.5°	6803.6	6652.6	6136.8	5507.8	5145.5	5047.3	4994.5	5017.1	5072.5	5090.1
7062.7	35°	7042.6	6871.5	6174.5	5331.6	4956.7	4805.8	4735.3	4702.6	4730.3	4712.7
7301.8	37.5°	7309.3	7130.7	6169.5	5100.2	4735.3	4561.7	4463.6	4340.3	4282.4	4222.0
7654.0	40°	7704.3	7447.7	6109.1	4820.9	4461.1	4302.6	4126.4	3917.6	3786.8	3668.5
8222.7	42.5°	8242.8	7888.0	5998.4	4513.9	4151.6	4003.1	3764.1	3520.0	3313.7	3117.5
9085.7	45°	9045.4	8464.2	5860.0	4186.8	3816.9	3671.0	3411.8	3137.6	2903.6	2652.0
10311.0	47.5°	10202.8	9239.2	5729.2	3814.4	3464.7	3331.3	3097.3	2843.2	2566.4	2322.4
12082.4	50°	11793.0	10351.3	5608.4	3452.1	3117.5	3016.8	2830.6	2571.5	2292.2	2095.9
14158.2	52.5°	13816.0	11863.5	5558.1	3102.4	2792.9	2755.1	2606.7	2365.1	2101.0	1934.9
16578.7	55°	16138.4	13672.6	5558.1	2767.7	2508.6	2521.1	2418.0	2194.1	1965.1	1816.6
19074.7	57.5°	18508.5	15504.3	5457.4	2458.2	2267.0	2319.9	2254.4	2058.2	1851.9	1698.4
21699.0	60°	20692.5	17039.1	5049.8	2176.4	2053.1	2136.2	2093.4	1924.8	1673.2	1544.9
23893.0	62.5°	22370.8	17904.7	4264.8	1952.5	1877.0	1972.6	1950.0	1748.7	1640.5	1587.7
25694.5	65°	23211.1	17763.8	3260.9	1753.7	1728.6	1877.0	1829.2	1821.7	1736.1	1675.7
26280.8	67.5°	22695.3	16551.0	2365.1	1607.8	1643.0	1789.0	1972.6	2002.8	1844.3	1726.1
24630.2	70°	20433.4	14356.9	1761.3	1469.4	1534.8	1791.5	2249.4	2095.9	1809.1	1670.7
19754.0	72.5°	15544.5	10706.1	1366.2	1323.5	1393.9	1804.1	2372.7	2053.1	1708.4	1846.8
12306.3	75°	8889.4	5877.6	1097.0	1144.8	1217.8	1685.8	2309.8	1942.4	1630.4	1695.9
4876.2	77.5°	3389.2	2259.5	905.8	968.7	978.8	1471.9	2209.1	1934.9	1552.4	1514.7
1461.9	80°	1175.0	883.2	749.8	769.9	757.4	1308.4	2118.6	1683.3	1270.6	1137.3
603.9	82.5°	480.6	440.3	593.8	568.6	538.4	1016.5	1711.0	1376.3	1039.2	918.4
291.9	85°	208.8	279.3	392.5	344.7	312.0	704.5	1371.3	1165.0	878.1	757.4
95.6	87.5°	42.8	105.7	166.1	156.0	161.0	470.5	973.7	827.8	621.5	465.5
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>
4818.4
4805.8
4898.9
5057.4
5236.0
5402.1
5515.3
5580.7
5618.5
5621.0
5583.3
5517.8
5389.5
5153.0
4768.0
4259.8
3676.0
3099.9
2621.8
2294.7
2083.3
1922.3
1801.5
1673.2
1524.8
1570.1
1655.6
1705.9
1648.1
1831.7
1695.9
1381.3
1099.5
908.3
754.8
364.8
0.0

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