

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: P944429

Luminaire Tested: **GALN-SB9B-840-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944429
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-SB9B-840-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48489 lumens
Efficiency: N/A
Efficacy: 147.2 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

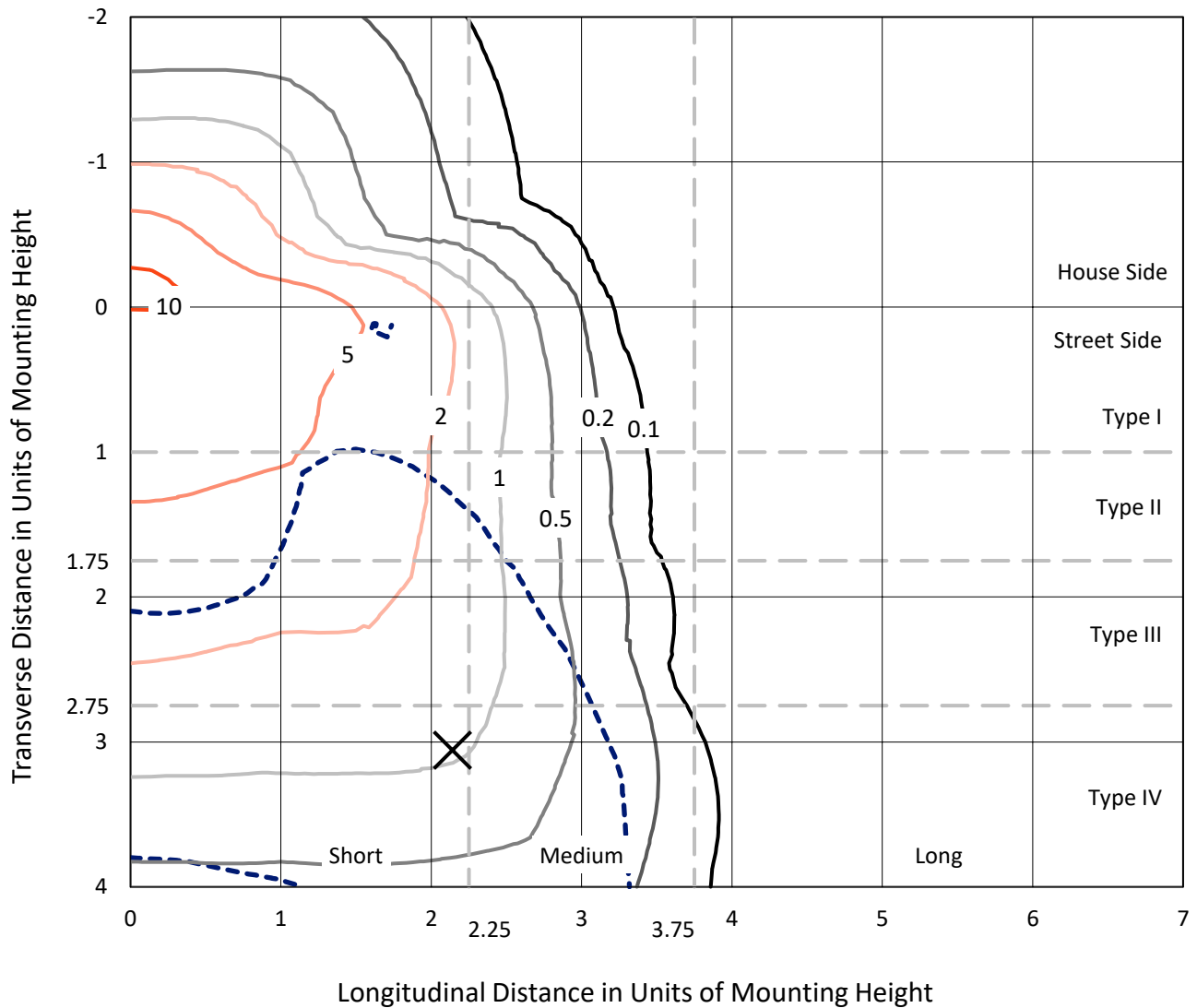
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

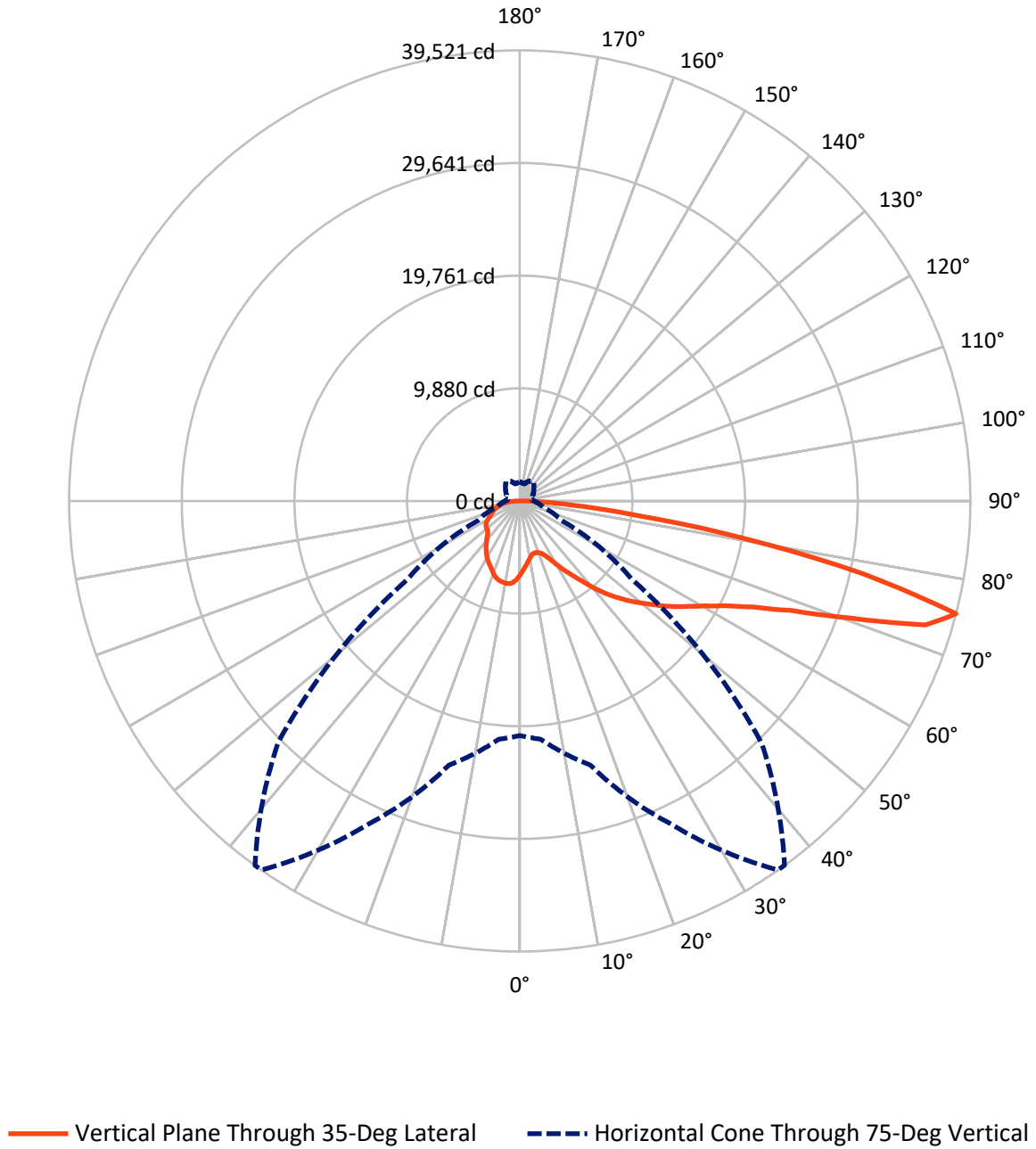
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11539.2	0.0	11539.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	36949.8	0.0	36949.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	48489.0	0.0	48489.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.8	1.3
10°-20°	1764.6	3.6
20°-30°	2963.3	6.1
30°-40°	4605.3	9.5
40°-50°	6835.5	14.1
50°-60°	9436.8	19.5
60°-70°	11449.0	23.6
70°-80°	9461.8	19.5
80°-90°	1360.9	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°	48489.0	100.0
0°-180°	48489.0	100.0

Coefficient of Utilization



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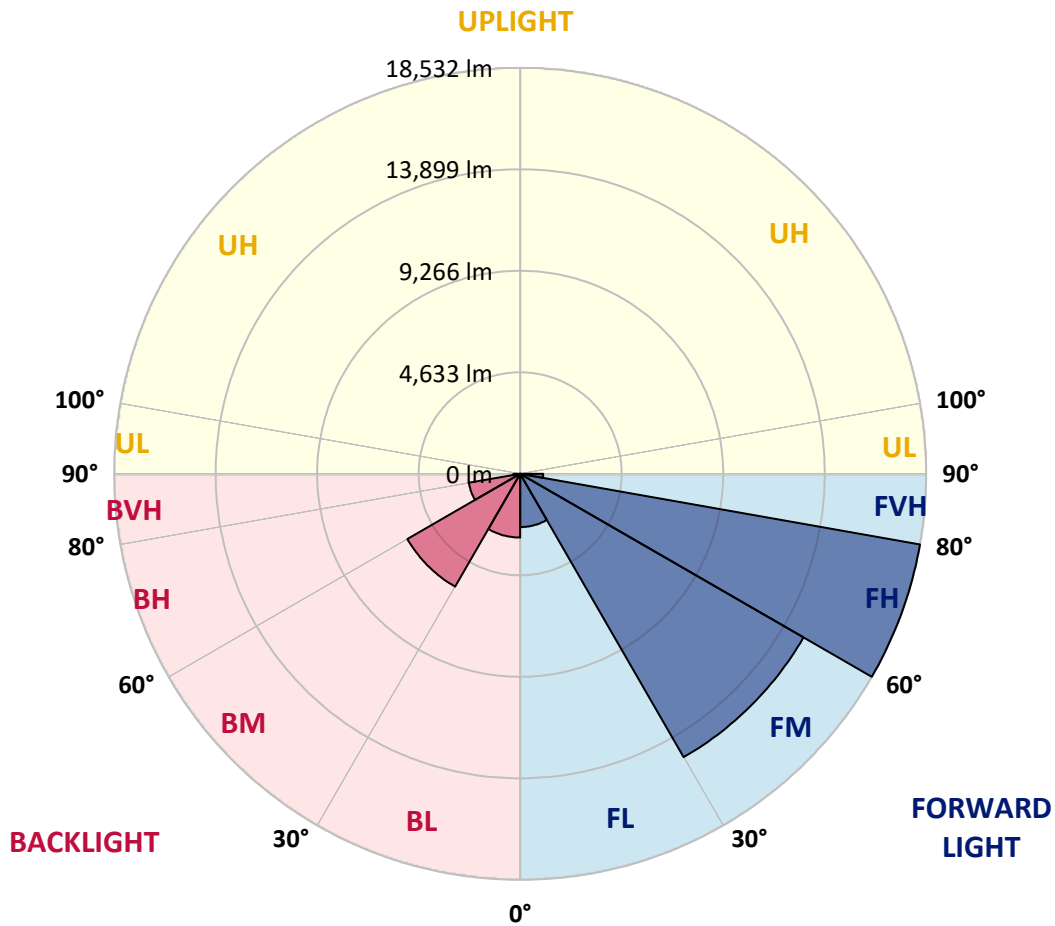
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2431.6	5.0			
FM (30°-60°)	14932.0	30.8			
FH (60°-80°)	18531.8	38.2			G5
FVH (80°-90°)	1054.4	2.2			G5
BL (0°-30°)	2908.0	6.0	B4/5000		
BM (30°-60°)	5945.7	12.3	B4/8500		
BH (60°-80°)	2379.0	4.9	B3/2500		G3/2500
BVH (80°-90°)	306.4	0.6			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°	36°	45°	55°	65°	75°
0°	6461.5	6461.5	6461.5	6461.5	6461.5	6461.5	6461.5	6461.5	6461.5	6461.5
2.5°	5958.2	5994.9	6010.6	6002.8	6042.1	6036.8	6091.9	6160.0	6254.4	6346.2
5°	5499.5	5538.8	5572.9	5604.3	5680.3	5703.9	5790.4	5921.5	6094.5	6270.1
7.5°	5072.2	5106.3	5158.7	5216.4	5344.8	5368.4	5512.6	5717.0	5958.2	6215.1
10°	4723.6	4757.6	4812.7	4878.2	5038.1	5067.0	5250.4	5523.1	5837.6	6162.7
12.5°	4574.2	4584.6	4616.1	4681.6	4820.6	4838.9	5040.7	5352.7	5719.7	6123.3
15°	4566.3	4587.3	4589.9	4624.0	4739.3	4747.2	4933.3	5242.6	5646.3	6115.5
17.5°	4644.9	4660.7	4637.1	4658.0	4755.0	4768.1	4914.9	5190.2	5622.7	6149.6
20°	4854.6	4867.7	4797.0	4768.1	4838.9	4849.4	4993.6	5224.2	5646.3	6220.3
22.5°	5300.3	5308.1	5135.1	5017.2	5022.4	5027.6	5153.5	5363.2	5738.0	6348.8
25°	5994.9	5989.7	5714.4	5486.4	5355.3	5326.5	5410.3	5588.6	5892.7	6519.2
27.5°	6807.5	6768.2	6492.9	6152.2	5866.5	5824.5	5806.2	5882.2	6112.9	6744.6
30°	7725.0	7688.3	7392.0	6946.4	6550.6	6482.5	6309.5	6270.1	6440.5	7051.3
32.5°	8731.5	8707.9	8354.1	7814.1	7284.6	7205.9	6915.0	6810.1	6943.8	7515.2
35°	9575.6	9554.6	9261.0	8705.3	8057.9	7960.9	7664.7	7546.7	7614.9	8110.3
37.5°	10338.4	10327.9	10076.3	9638.5	8970.1	8852.1	8519.2	8479.9	8466.8	8894.0
40°	11046.1	11019.9	10757.8	10527.1	10031.7	9924.2	9630.6	9596.6	9496.9	9858.7
42.5°	11829.9	11761.7	11381.7	11274.2	11140.5	11051.4	10875.7	10881.0	10660.8	10946.5
45°	12469.5	12430.2	12039.6	11976.7	12120.9	12084.2	12236.2	12275.5	11848.2	12086.8
47.5°	13156.3	13119.6	12789.3	12744.7	13135.3	13145.8	13683.1	13696.3	13006.9	13271.6
50°	14002.9	13950.5	13622.9	13677.9	14115.7	14155.0	15138.0	15048.8	14073.7	14474.8
52.5°	14561.3	14592.7	14522.0	14611.1	15208.7	15245.4	16569.2	16341.1	15130.1	15662.2
55°	14972.8	15035.7	15255.9	15460.4	16362.1	16398.8	17919.2	17570.5	16005.6	16763.2
57.5°	15502.3	15413.2	15824.7	16223.2	17457.8	17554.8	19232.4	18755.4	16781.5	17712.1
60°	16262.5	16199.6	16519.4	17109.2	18684.6	18839.2	20621.7	19822.2	17350.3	18464.4
62.5°	17803.8	17646.5	17696.3	18218.0	20231.1	20435.6	22189.2	20752.8	17633.4	18758.0
65°	20107.9	19837.9	19586.3	19948.0	22409.4	22611.3	23958.6	21484.1	17528.6	18189.2
67.5°	23009.7	22742.3	22433.0	22773.8	25617.9	25777.8	26142.2	21895.7	16702.9	15997.8
70°	25403.0	25303.3	25672.9	27075.3	30742.5	30747.8	28941.7	21554.9	14440.7	11342.3
72.5°	25085.8	25025.5	26973.1	31308.7	37201.4	37062.5	31591.8	18975.5	9727.6	5116.8
75°	20579.8	20970.3	23987.5	31232.7	39521.2	39502.9	29969.2	12063.2	4023.7	2120.6
77.5°	11035.6	11654.3	15573.1	23059.5	30852.6	31316.6	21070.0	4220.3	1727.4	1357.8
80°	3599.0	4139.0	6207.2	11740.8	20047.6	19961.1	9030.4	1656.7	1182.2	962.0
82.5°	1528.2	1591.1	2773.3	5544.0	10288.6	10128.7	2875.6	951.5	830.9	657.9
85°	597.7	668.4	1224.1	2563.6	4456.2	4359.2	1038.0	471.8	532.1	429.9
87.5°	196.6	238.5	437.8	878.1	1386.7	1336.9	254.3	162.5	230.7	196.6
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°
6461.5	0°	6461.5	6461.5	6461.5	6461.5	6461.5	6461.5	6461.5	6461.5	6461.5	6461.5
6479.8	2.5°	6516.5	6558.5	6608.3	6681.7	6744.6	6797.0	6852.1	6886.1	6899.2	6938.6
6490.3	5°	6563.7	6655.5	6778.7	6899.2	7017.2	7088.0	7150.9	7182.3	7211.2	7232.1
6519.2	7.5°	6642.4	6760.3	6954.3	7111.6	7211.2	7268.8	7310.8	7300.3	7310.8	7316.0
6550.6	10°	6710.5	6875.7	7106.3	7255.7	7331.8	7334.4	7323.9	7287.2	7268.8	7271.5
6597.8	12.5°	6791.8	6975.3	7224.3	7350.1	7371.1	7313.4	7268.8	7205.9	7182.3	7171.9
6668.6	15°	6901.9	7111.6	7352.7	7399.9	7347.5	7274.1	7198.1	7095.8	7043.4	7001.5
6789.1	17.5°	7035.6	7266.2	7452.3	7418.3	7305.5	7185.0	7061.8	6907.1	6799.6	6755.1
6954.3	20°	7221.7	7428.7	7528.4	7378.9	7208.6	7025.1	6815.4	6626.6	6527.0	6482.5
7164.0	22.5°	7447.1	7646.3	7601.7	7310.8	7069.6	6776.0	6513.9	6375.0	6325.2	6293.7
7434.0	25°	7717.1	7887.5	7654.2	7211.2	6841.6	6445.8	6243.9	6199.4	6175.8	6152.2
7764.3	27.5°	8068.3	8160.1	7693.5	7064.4	6485.1	6094.5	6021.1	6029.0	6021.1	5981.8
8223.0	30°	8532.3	8514.0	7730.2	6825.8	6076.2	5777.3	5782.6	5816.6	5821.9	5795.7
8862.6	32.5°	9143.1	8957.0	7748.5	6516.5	5685.6	5499.5	5504.7	5541.4	5567.6	5523.1
9698.8	35°	9882.3	9473.4	7719.7	6128.6	5384.1	5234.7	5195.4	5205.9	5213.8	5171.8
10713.2	37.5°	10744.7	10052.7	7591.3	5698.7	5135.1	4975.2	4891.3	4820.6	4778.6	4739.3
11861.4	40°	11691.0	10684.4	7355.3	5279.3	4857.3	4700.0	4574.2	4440.5	4298.9	4246.5
13077.6	42.5°	12681.8	11334.5	7069.6	4878.2	4537.5	4409.0	4275.3	4081.4	3869.0	3761.6
14341.1	45°	13709.4	12000.3	6789.1	4482.4	4209.8	4154.7	4000.1	3766.8	3536.1	3399.8
15607.2	47.5°	14715.9	12629.4	6377.6	4084.0	3903.1	3963.4	3842.8	3627.9	3371.0	3156.0
16862.8	50°	15678.0	13219.2	5703.9	3680.3	3654.1	3905.7	3790.4	3481.1	3187.5	2912.3
18094.8	52.5°	16632.1	13696.3	4841.5	3313.3	3520.4	3890.0	3722.2	3381.5	3022.4	2734.0
19253.4	55°	17442.1	13942.7	4010.6	2998.8	3326.4	3756.3	3641.0	3263.5	2789.1	2482.4
20047.6	57.5°	17903.4	13743.4	3318.6	2689.4	3059.0	3536.1	3502.0	3011.9	2511.2	2275.3
20202.3	60°	17704.2	12936.1	2752.4	2419.5	2804.8	3297.6	3260.9	2762.8	2298.9	2076.1
19374.0	62.5°	16605.9	11397.4	2304.1	2183.5	2574.1	3053.8	3019.7	2571.5	2136.4	1921.4
17174.7	65°	14393.5	9271.5	1955.5	1986.9	2340.8	2760.2	2810.0	2411.6	2007.9	1798.2
13287.3	67.5°	10978.0	6715.8	1682.9	1816.6	2112.8	2471.9	2616.1	2296.3	1900.4	1701.2
7688.3	70°	6257.0	3814.0	1452.2	1651.4	1910.9	2204.5	2466.6	2204.5	1785.1	1620.0
2880.8	72.5°	2372.3	1751.0	1255.6	1486.3	1716.9	1979.1	2301.5	2060.3	1651.4	1528.2
1488.9	75°	1266.1	1066.9	1056.4	1292.3	1494.1	1758.9	2094.4	1918.8	1551.8	1614.7
1030.2	77.5°	862.4	754.9	883.4	1106.2	1250.4	1515.1	1874.2	1703.8	1344.7	1339.5
713.0	80°	597.7	534.7	718.2	891.2	967.3	1273.9	1635.7	1462.7	1095.7	1022.3
440.4	82.5°	359.1	348.6	537.4	665.8	684.2	983.0	1355.2	1226.8	896.5	781.1
262.1	85°	196.6	207.1	343.4	390.6	398.4	686.8	1061.6	948.9	689.4	579.3
94.4	87.5°	55.0	70.8	125.8	154.7	191.4	356.5	631.7	563.6	346.0	241.2
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>
6461.5
6935.9
7237.4
7323.9
7276.7
7166.6
7014.6
6757.7
6477.2
6299.0
6152.2
5989.7
5808.8
5544.0
5200.6
4765.5
4270.1
3774.7
3389.3
3132.4
2888.7
2702.6
2456.2
2243.8
2044.6
1887.3
1764.1
1669.8
1599.0
1507.2
1667.1
1234.6
977.7
786.4
584.5
241.2
0.0

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