

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: P955764

Luminaire Tested: **GALN-SB8C-840-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-840-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59000 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

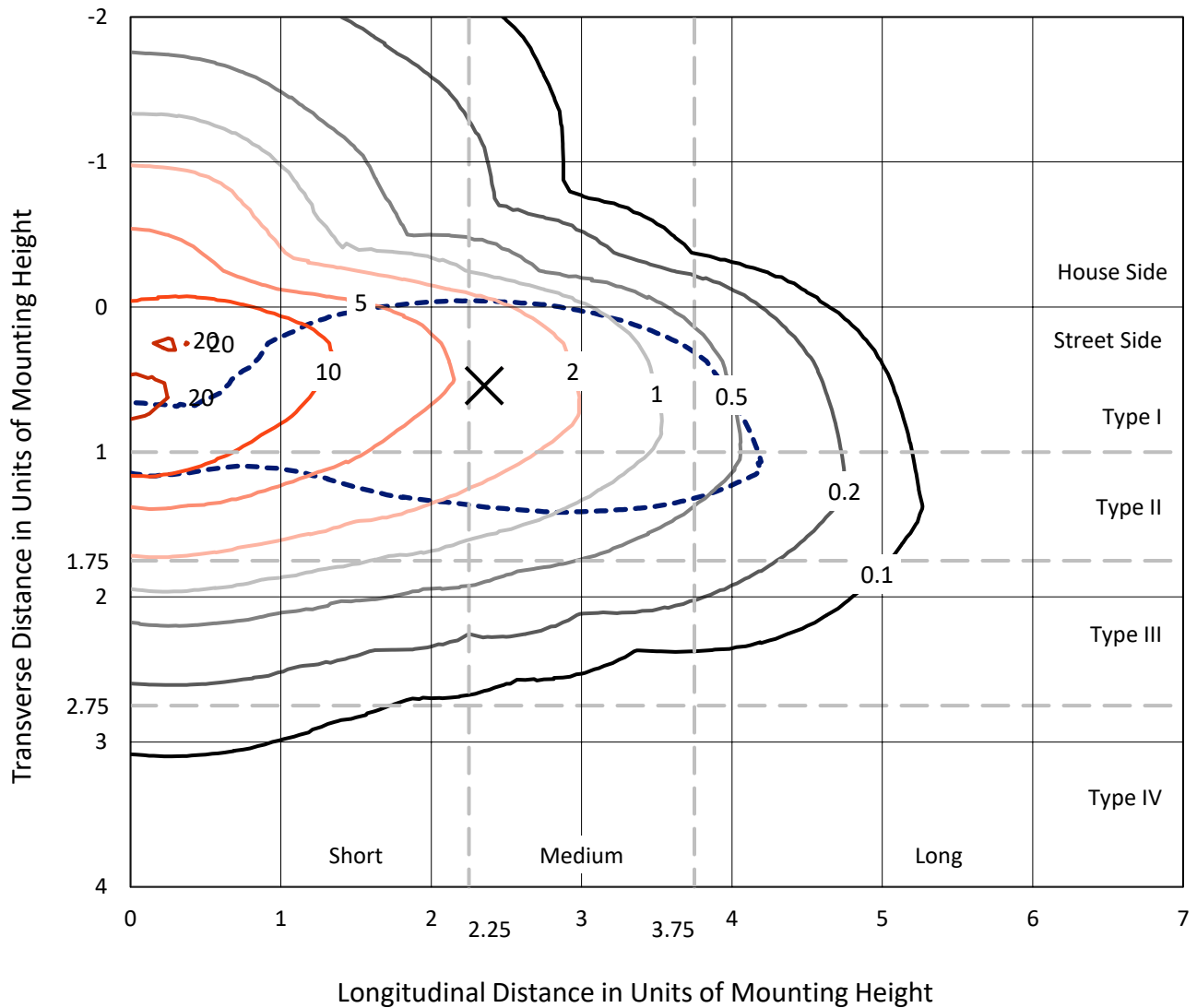
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

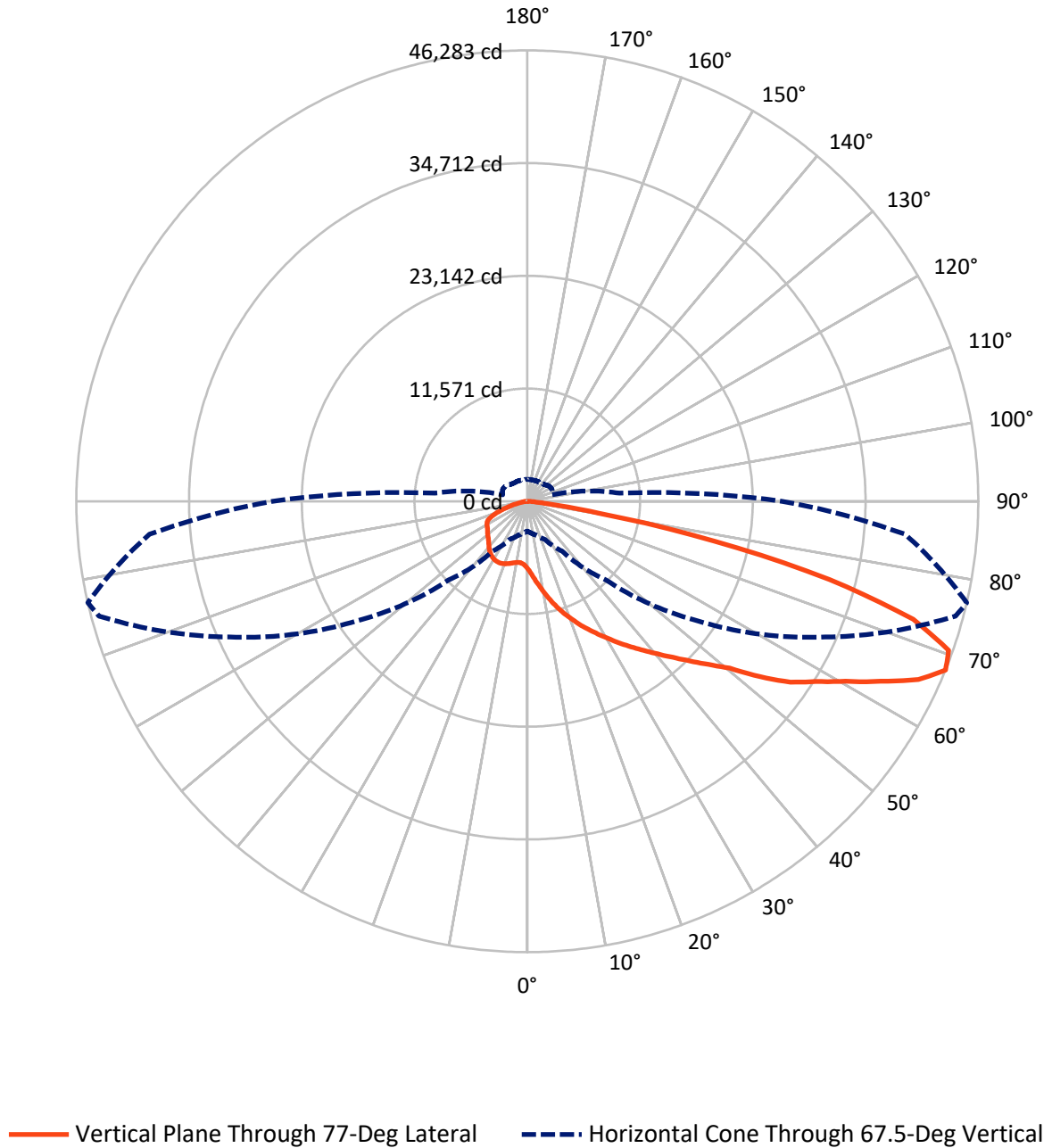
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11160.4	0.0	11160.4
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	47839.6	0.0	47839.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	59000.0	0.0	59000.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	742.0	1.3
10°-20°	2665.7	4.5
20°-30°	5033.1	8.5
30°-40°	8108.3	13.7
40°-50°	11090.7	18.8
50°-60°	12510.4	21.2
60°-70°	11676.9	19.8
70°-80°	6400.9	10.8
80°-90°	772.1	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°	59000.0	100.0
0°-180°	59000.0	100.0

Coefficient of Utilization



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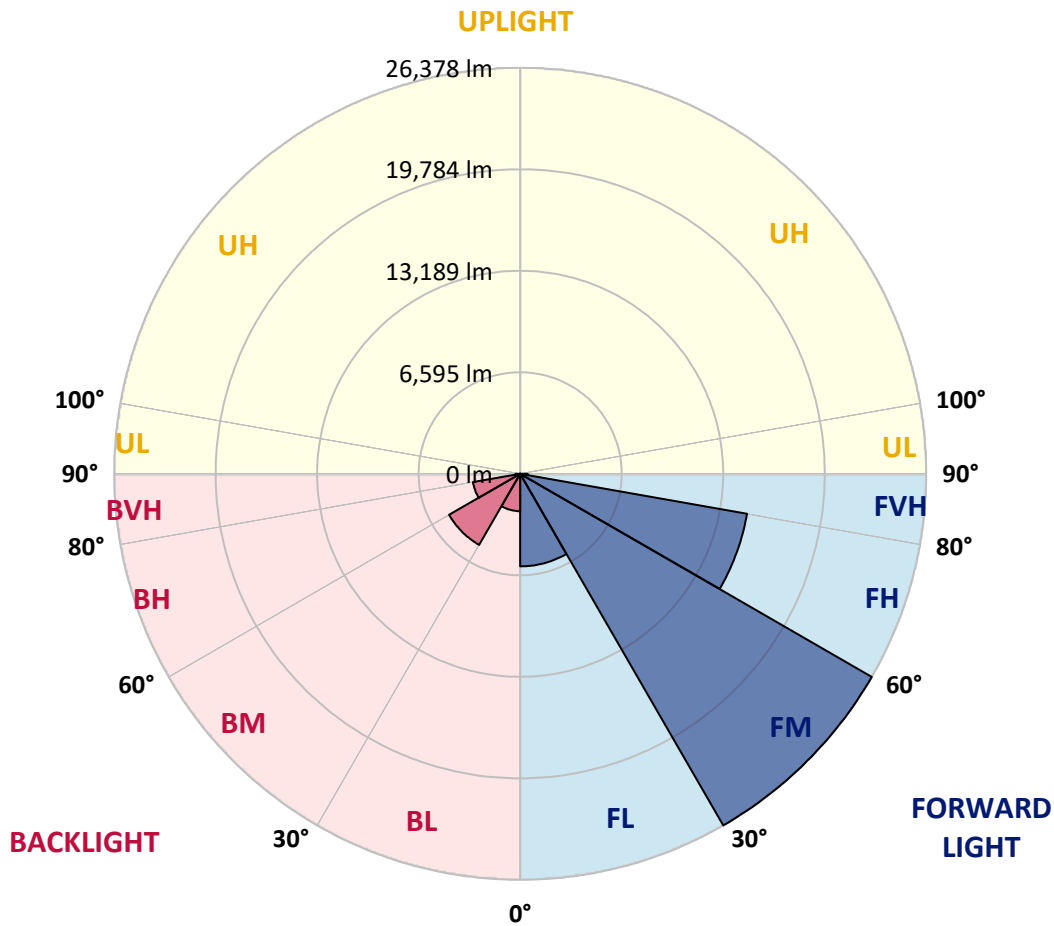
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6014.3	10.2			
FM (30°-60°)	26378.3	44.7			
FH (60°-80°)	14964.1	25.4			G5
FVH (80°-90°)	482.9	0.8			G3/500
BL (0°-30°)	2426.5	4.1	B3/2500		
BM (30°-60°)	5331.1	9.0	B4/8500		
BH (60°-80°)	3113.6	5.3	B4/5000		G4/5000
BVH (80°-90°)	289.2	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6922.5	6922.5	6922.5	6922.5	6922.5	6922.5	6922.5	6922.5	6922.5	6922.5
2.5°	8667.6	8728.5	8652.4	8652.4	8396.6	8262.6	8006.7	7811.8	7461.6	7400.7
5°	10245.2	10321.4	10214.8	10169.1	9867.6	9590.4	9161.0	8737.7	8113.3	8049.4
7.5°	11466.5	11563.9	11469.5	11420.8	11152.8	10842.2	10339.6	9748.8	8868.6	8743.8
10°	12462.4	12477.6	12447.2	12465.4	12255.3	11999.5	11484.8	10796.5	9697.0	9526.5
12.5°	13025.8	13095.9	13156.8	13266.4	13229.9	13071.5	12608.6	11786.3	10574.1	10354.9
15°	13290.8	13412.6	13549.6	13802.4	14006.5	14046.1	13692.8	12849.2	11466.5	11201.5
17.5°	13385.2	13500.9	13717.2	14082.6	14521.2	14816.6	14658.2	13881.6	12349.7	12045.1
20°	13863.3	13896.8	14027.8	14375.0	14850.1	15340.4	15459.2	14874.5	13223.8	12879.6
22.5°	14886.6	14819.6	14856.2	15014.6	15355.7	15830.8	16101.8	15751.6	14122.2	13726.3
25°	16576.9	16382.0	16187.1	16004.4	16178.0	16446.0	16753.6	16628.7	15063.3	14560.8
27.5°	18711.9	18474.3	18044.9	17444.9	17234.8	17329.2	17466.2	17441.9	15934.3	15425.7
30°	20813.3	20536.1	20024.5	19156.5	18602.2	18352.5	18248.9	18178.9	16881.5	16339.4
32.5°	22491.4	22272.1	21769.6	20798.1	19994.0	19567.7	19223.5	18973.8	17871.3	17329.2
35°	23959.3	23755.3	23179.7	22119.8	21245.8	20792.0	20341.2	19808.3	18900.7	18352.5
37.5°	25299.4	25095.3	24306.5	23204.0	22323.9	22010.2	21608.2	20703.6	19933.1	19415.4
40°	26146.0	26100.4	25363.3	24114.7	23201.0	23045.7	22911.7	21742.2	21078.2	20597.0
42.5°	26362.3	26462.8	25878.0	24851.7	23980.7	23855.8	24169.5	22917.8	22363.5	21903.6
45°	25841.5	26130.8	25747.1	25049.6	24534.9	24467.9	25284.1	24203.0	23785.7	23365.5
47.5°	24522.8	25013.1	24854.7	24757.3	24684.2	24973.5	26264.8	25567.4	25396.8	25031.4
50°	21861.0	22789.8	23067.0	23682.2	24388.8	25366.4	27157.2	27056.7	27279.0	26910.5
52.5°	17259.1	18538.3	20146.3	21687.4	23481.2	25235.4	28137.8	29194.6	30132.7	29931.7
55°	14247.1	14822.7	16059.2	18885.4	21720.9	24684.2	28579.4	30921.5	32965.0	32785.3
57.5°	11932.5	12447.2	13208.5	15568.8	19059.0	23432.5	28853.5	31975.2	34905.0	34886.8
60°	9450.3	9995.5	10775.2	12447.2	15949.5	21270.1	28792.6	33175.2	37381.1	37533.3
62.5°	6648.4	7248.4	8113.3	9672.7	12773.0	18468.2	27550.0	34043.1	40295.7	40709.9
65°	4370.4	4766.3	5418.0	6764.2	9517.3	14865.3	25177.6	34155.8	43414.3	44114.8
67.5°	3063.8	3216.1	3599.8	4330.8	6273.8	11399.5	21398.0	32989.4	45494.4	46283.2
70°	2390.8	2466.9	2661.8	2954.2	3940.9	7665.6	16397.2	29956.0	45049.8	45872.1
72.5°	2064.9	2138.0	2211.1	2247.6	2643.5	4732.8	11107.1	25046.6	40862.1	41419.5
75°	1873.0	1891.3	1952.2	1940.0	2016.2	3069.9	6410.9	18248.9	32240.2	32048.3
77.5°	1574.5	1598.9	1699.4	1684.2	1790.8	2098.4	3328.8	11777.1	20901.6	19598.1
80°	1334.0	1346.1	1455.8	1437.5	1556.3	1519.7	1699.4	6002.8	8865.6	7510.3
82.5°	462.9	572.6	1111.6	1145.1	1187.8	919.8	980.7	2448.6	2707.5	2074.0
85°	225.4	240.6	566.5	804.0	801.0	462.9	478.2	874.1	852.8	670.0
87.5°	36.5	45.7	67.0	313.7	249.7	121.8	164.5	170.6	176.6	152.3
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°
6922.5	0°	6922.5	6922.5	6922.5	6922.5	6922.5	6922.5	6922.5	6922.5	6922.5	6922.5
7169.2	2.5°	6998.7	6846.4	6526.6	6231.2	5999.7	5777.4	5652.5	5545.9	5485.0	5472.9
7504.2	5°	7187.5	6873.8	6292.1	5801.8	5482.0	5244.4	5119.6	5040.4	5000.8	4976.4
7955.0	7.5°	7458.5	6998.7	6170.3	5612.9	5277.9	5107.4	5043.4	5031.2	5028.2	5031.2
8500.1	10°	7833.2	7202.7	6158.1	5567.3	5287.1	5192.7	5189.6	5192.7	5204.8	5207.9
9094.0	12.5°	8238.2	7412.9	6206.8	5606.9	5402.8	5351.0	5341.9	5338.8	5348.0	5354.1
9694.0	15°	8679.8	7690.0	6289.1	5692.1	5530.7	5475.9	5466.8	5448.5	5445.4	5442.4
10324.4	17.5°	9133.6	7964.1	6380.4	5783.5	5612.9	5536.8	5503.3	5460.7	5427.2	5418.0
10976.2	20°	9593.5	8235.2	6444.4	5829.2	5619.0	5512.4	5445.4	5372.3	5314.5	5281.0
11634.0	22.5°	10083.8	8518.4	6484.0	5817.0	5564.2	5418.0	5296.2	5210.9	5122.6	5064.7
12297.9	25°	10562.0	8765.1	6480.9	5753.0	5457.6	5271.8	5116.5	5006.9	4885.1	4824.1
12983.2	27.5°	11021.8	8987.4	6404.8	5640.4	5305.3	5098.2	4912.5	4781.5	4662.7	4604.9
13674.5	30°	11496.9	9173.2	6286.0	5475.9	5125.7	4897.2	4693.2	4580.5	4473.9	4419.1
14405.4	32.5°	11969.0	9343.7	6118.5	5271.8	4918.6	4699.3	4498.3	4394.7	4330.8	4330.8
15191.2	35°	12468.5	9462.5	5896.2	5034.3	4699.3	4489.1	4330.8	4269.9	4263.8	4227.2
16022.6	37.5°	12995.4	9538.7	5625.1	4790.6	4483.0	4285.1	4236.4	4163.3	4102.4	4023.2
16936.3	40°	13549.6	9614.8	5299.3	4537.9	4254.6	4145.0	4123.7	4026.2	3852.6	3657.7
17971.8	42.5°	14222.7	9666.6	4961.2	4285.1	4014.0	3977.5	4007.9	3840.4	3563.3	3417.1
19220.5	45°	15002.4	9751.8	4650.6	4035.4	3767.3	3767.3	3895.3	3676.0	3447.6	3356.2
20645.8	47.5°	16013.5	9949.8	4361.2	3761.3	3538.9	3599.8	3645.5	3478.0	3350.1	3237.4
22381.7	50°	17475.4	10424.9	4062.8	3484.1	3365.3	3487.2	3423.2	3325.7	3176.5	3085.1
25141.0	52.5°	19290.5	10705.1	3797.8	3234.4	3216.1	3337.9	3246.6	3155.2	3042.5	2920.7
27233.3	55°	20527.0	10756.9	3575.5	3051.6	3115.6	3103.4	3069.9	2987.7	2926.8	2765.4
29298.2	57.5°	21909.7	10860.4	3392.7	2942.0	3051.6	2917.6	2905.5	2835.4	2756.2	2646.6
31816.9	60°	23563.4	11021.8	3234.4	2899.4	2996.8	2795.8	2734.9	2707.5	2628.3	2573.5
34847.2	62.5°	25366.4	11168.0	3073.0	2905.5	2932.9	2677.0	2585.7	2576.5	2527.8	2509.5
37691.7	65°	26596.8	10769.1	2872.0	2899.4	2832.4	2555.2	2439.5	2436.4	2396.8	2390.8
38925.2	67.5°	26167.4	9505.2	2600.9	2814.1	2728.8	2433.4	2305.5	2293.3	2241.5	2244.6
37636.9	70°	24017.2	7702.2	2226.3	2603.9	2600.9	2323.8	2165.4	2125.8	2055.7	2067.9
32724.4	72.5°	19984.9	5707.4	1723.8	2253.7	2396.8	2223.3	2004.0	1940.0	1851.7	1863.9
24157.3	75°	14432.9	3880.0	1254.8	1714.6	2086.2	2104.5	1845.6	1736.0	1629.4	1647.6
13446.1	77.5°	7385.5	2198.9	922.8	1181.7	1638.5	1912.6	1702.5	1556.3	1531.9	1702.5
3877.0	80°	2409.0	1102.5	639.6	828.4	1075.1	1565.4	1492.3	1324.8	1318.7	1358.3
813.2	82.5°	718.7	466.0	411.1	545.2	593.9	1199.9	1288.3	1002.0	861.9	907.6
271.1	85°	246.7	225.4	234.5	271.1	283.2	703.5	901.5	663.9	627.4	691.3
60.9	87.5°	57.9	79.2	67.0	60.9	60.9	170.6	350.2	277.1	383.7	255.8
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>
6922.5
5472.9
4973.4
5040.4
5210.9
5357.1
5439.4
5427.2
5293.2
5067.8
4824.1
4601.8
4416.0
4333.8
4218.1
4011.0
3630.3
3420.2
3371.4
3234.4
3076.0
2896.3
2768.4
2610.0
2588.7
2509.5
2387.7
2244.6
2080.1
1860.8
1653.7
1678.1
1166.4
938.0
682.2
246.7
0.0

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