

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: P951358

Luminaire Tested: **GALN-SB5C-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951358
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-740-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41088 lumens
Efficiency: N/A
Efficacy: 164.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

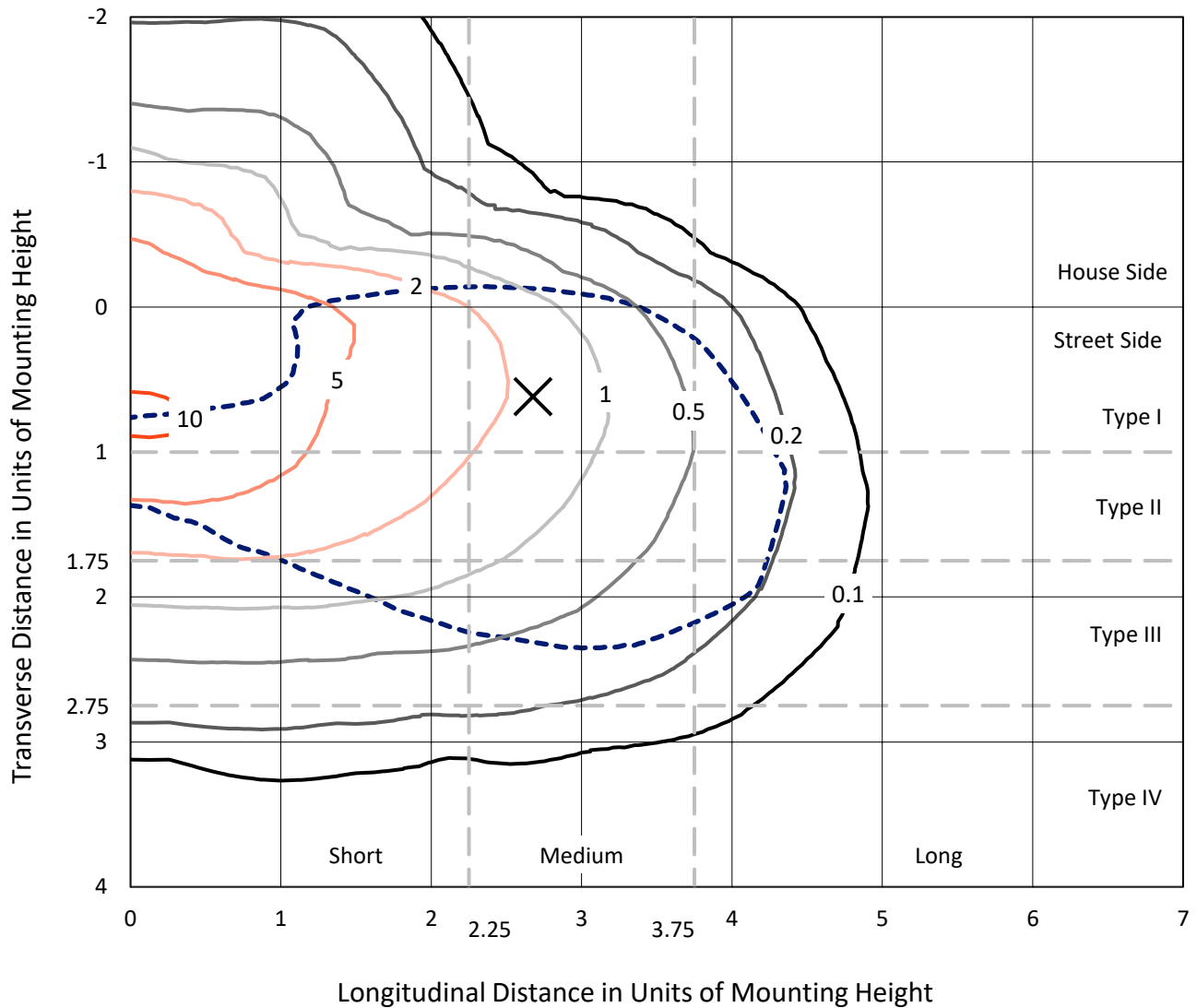
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

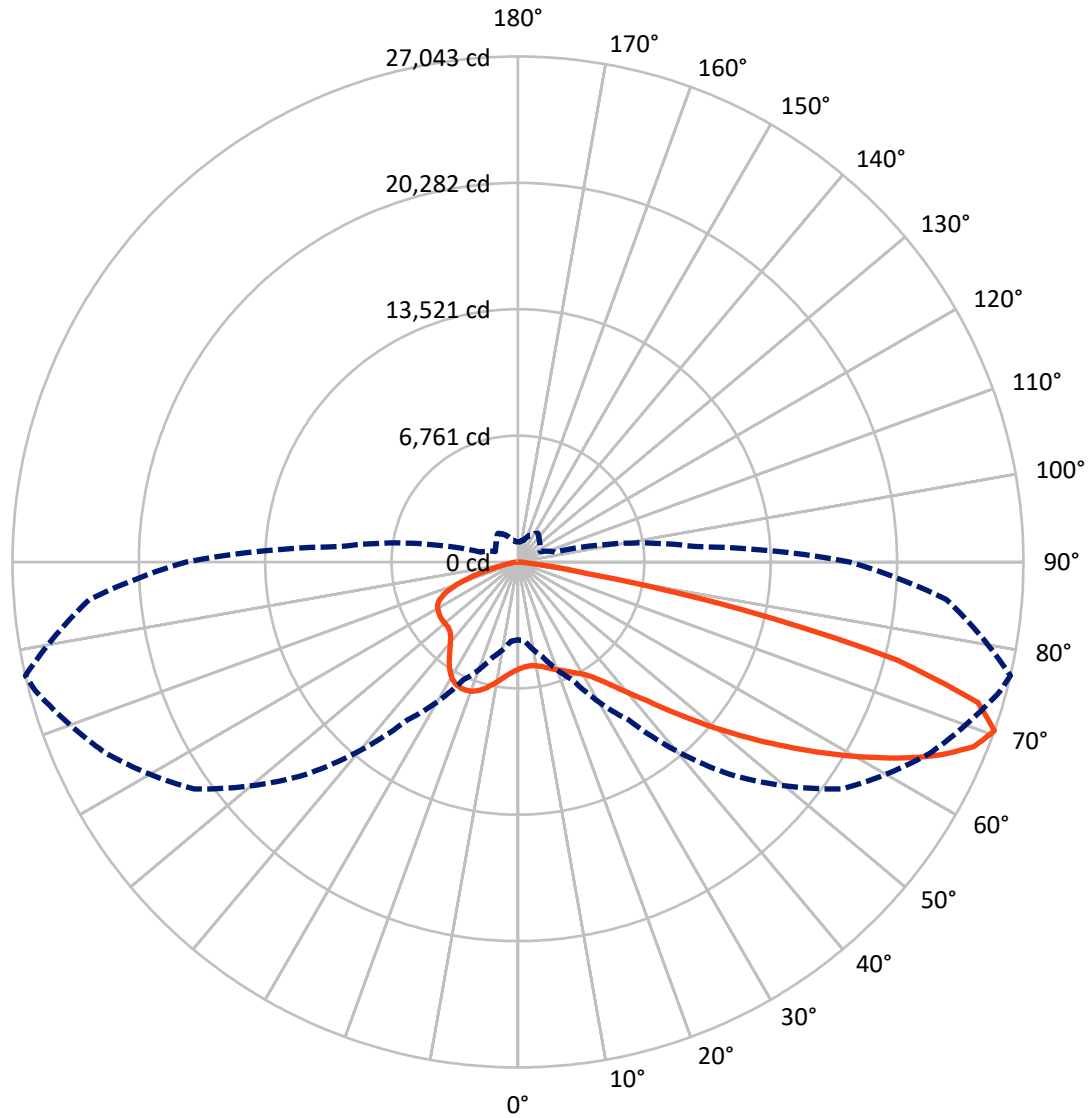
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	8997.6	0.0	8997.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	32090.4	0.0	32090.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	41088.0	0.0	41088.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.7	1.3
10°-20°	1577.8	3.8
20°-30°	2698.3	6.6
30°-40°	4339.1	10.6
40°-50°	6774.5	16.5
50°-60°	9049.1	22.0
60°-70°	9644.9	23.5
70°-80°	5937.4	14.5
80°-90°	520.3	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°	41088.0	100.0
0°-180°	41088.0	100.0



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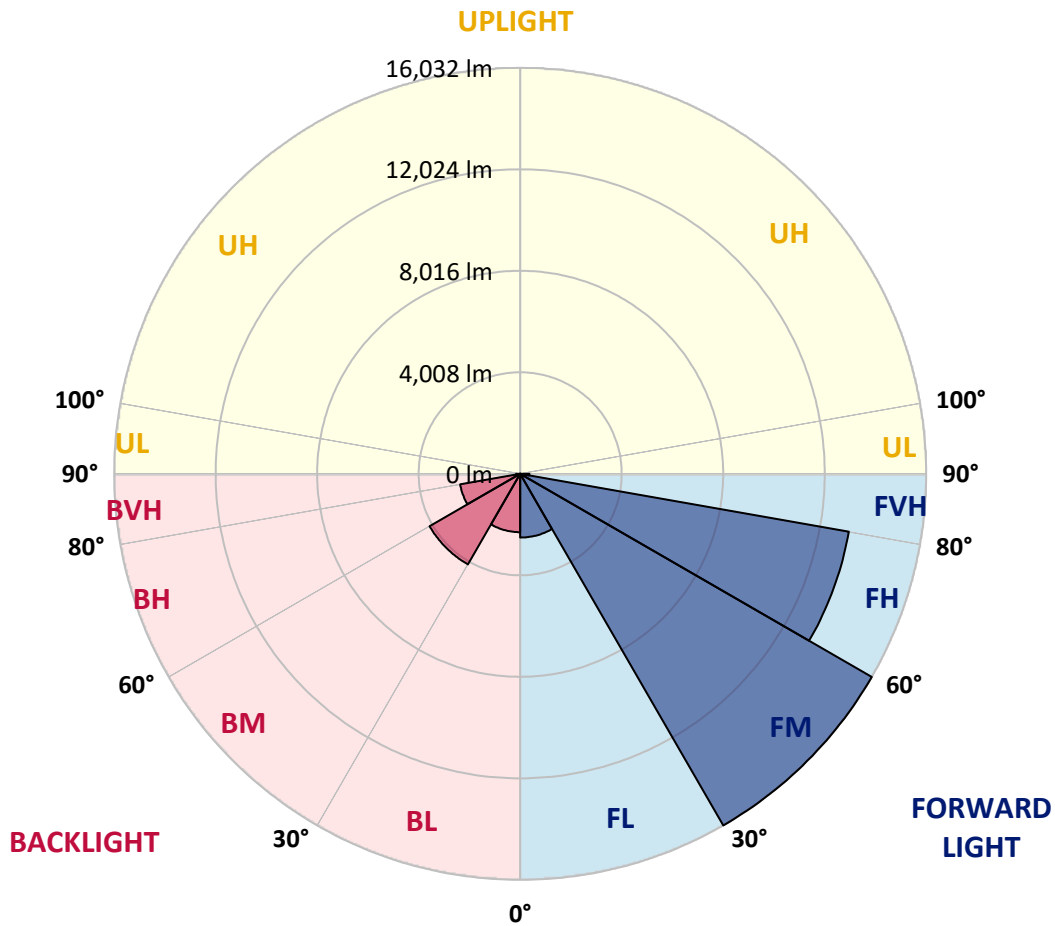
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2517.3	6.1			
FM (30°-60°)	16031.7	39.0			
FH (60°-80°)	13177.6	32.1			G5
FVH (80°-90°)	363.8	0.9			G3/500
BL (0°-30°)	2305.5	5.6	B3/2500		
BM (30°-60°)	4131.0	10.1	B3/5000		
BH (60°-80°)	2404.7	5.9	B3/2500		G3/2500
BVH (80°-90°)	156.5	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-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5732.2	5732.2	5732.2	5732.2	5732.2	5732.2	5732.2	5732.2	5732.2	5732.2
2.5°	5283.9	5281.8	5309.2	5317.6	5368.1	5403.9	5471.2	5542.8	5635.4	5645.9
5°	4978.8	4978.8	5010.4	5044.0	5109.3	5180.8	5283.9	5408.1	5568.0	5593.3
7.5°	4720.0	4736.8	4764.2	4829.4	4905.2	5008.3	5166.1	5342.9	5553.3	5593.3
10°	4511.6	4530.6	4564.3	4616.9	4730.5	4873.6	5079.8	5307.1	5589.1	5652.2
12.5°	4446.4	4465.4	4484.3	4524.3	4629.5	4797.8	5044.0	5323.9	5675.3	5738.5
15°	4597.9	4621.1	4606.3	4595.8	4650.5	4804.1	5060.9	5384.9	5782.7	5873.1
17.5°	4947.2	4955.7	4922.0	4823.1	4814.7	4896.7	5140.8	5469.1	5917.3	6016.2
20°	5511.2	5496.5	5427.0	5231.3	5119.8	5103.0	5277.6	5595.4	6056.2	6161.4
22.5°	6277.2	6260.3	6121.4	5812.1	5563.8	5399.7	5475.4	5759.5	6211.9	6329.8
25°	7232.5	7209.4	7005.3	6584.4	6199.3	5793.2	5744.8	5976.3	6403.4	6512.9
27.5°	8347.8	8328.9	8107.9	7552.4	6996.8	6331.9	6079.4	6230.9	6603.3	6727.5
30°	9547.3	9602.0	9210.6	8613.0	7910.1	7034.7	6529.7	6544.4	6862.2	6973.7
32.5°	10957.2	11051.9	10580.5	9822.9	8863.4	7798.6	7097.9	6982.1	7238.8	7331.4
35°	12354.4	12461.7	12070.3	11232.8	10128.1	8699.2	7691.3	7485.0	7739.7	7840.7
37.5°	13562.3	13705.4	13503.4	12775.3	11481.1	9785.1	8465.7	8076.4	8356.2	8482.5
40°	14515.6	14734.4	14719.7	14265.1	13076.2	11102.4	9448.4	8806.6	9122.2	9259.0
42.5°	15289.9	15479.3	15643.5	15620.3	14740.7	12598.5	10603.6	9755.6	9995.5	10153.3
45°	15824.4	16026.5	16380.0	16760.9	16342.1	14199.9	11927.3	10881.4	11100.3	11338.0
47.5°	16302.1	16531.5	16990.2	17594.2	17701.5	15807.6	13377.1	12192.4	12392.3	12638.5
50°	16344.2	16542.0	17253.3	18109.7	18667.4	17352.2	14934.3	13663.3	13850.6	14113.6
52.5°	15327.8	15639.3	16880.8	18095.0	19111.4	18644.2	16481.0	15193.1	15403.6	15719.2
55°	11897.8	12354.4	15788.7	17531.0	18953.6	19479.6	17951.9	16819.8	17089.1	17419.5
57.5°	10248.0	10447.9	12533.3	16504.1	18233.9	19696.4	19193.4	18463.2	18896.7	19258.7
60°	9210.6	9376.8	10610.0	14907.0	17286.9	19353.4	20153.0	19995.2	20744.3	21175.7
62.5°	8099.5	8257.3	9378.9	12447.0	16074.9	18783.1	20759.1	21409.3	22638.2	23109.6
65°	6996.8	7131.5	8206.8	10458.4	14534.5	18212.8	21072.6	22631.9	24391.1	24879.3
67.5°	5767.9	5879.5	6895.8	8823.4	12661.7	17432.1	21228.3	23593.6	25916.7	26335.5
70°	4162.3	4248.6	5298.7	6977.9	10311.1	16089.6	21165.2	24275.4	26708.0	27042.5
72.5°	1967.5	2045.4	3278.5	4530.6	7283.0	13476.0	19887.9	23734.6	25904.1	25737.9
75°	1050.1	1117.4	1883.4	2485.2	3846.7	9237.9	16274.8	20445.5	21752.3	20944.2
77.5°	711.3	763.9	1165.8	1492.0	1757.1	4385.4	10460.5	14155.7	13619.1	12285.0
80°	564.0	618.7	955.4	1010.1	850.1	1584.5	4322.3	6552.8	4707.4	3764.6
82.5°	433.5	494.5	803.8	732.3	462.9	650.2	1258.4	2072.7	1205.8	917.5
85°	265.1	330.4	631.3	467.2	260.9	296.7	427.2	576.6	368.3	307.2
87.5°	134.7	189.4	319.9	170.4	117.8	69.4	113.6	113.6	96.8	84.2
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°
5732.2	0°	5732.2	5732.2	5732.2	5732.2	5732.2	5732.2	5732.2	5732.2	5732.2	5732.2
5702.7	2.5°	5753.2	5795.3	5866.8	5934.2	5986.8	6037.3	6087.8	6115.1	6123.6	6157.2
5734.3	5°	5820.5	5898.4	6037.3	6167.7	6249.8	6300.3	6336.1	6357.1	6361.3	6371.9
5820.5	7.5°	5944.7	6068.8	6262.4	6392.9	6453.9	6449.7	6435.0	6382.4	6361.3	6342.4
5946.8	10°	6119.3	6283.5	6521.3	6611.8	6573.9	6472.9	6342.4	6188.8	6117.2	6047.8
6119.3	12.5°	6336.1	6544.4	6778.0	6773.8	6586.5	6327.7	6024.7	5789.0	5639.6	5532.2
6331.9	15°	6599.1	6839.0	7017.9	6874.8	6464.5	5999.4	5555.4	5248.2	5113.5	4995.6
6546.5	17.5°	6870.6	7127.3	7209.4	6843.2	6157.2	5513.3	5010.4	4768.4	4635.8	4572.7
6778.0	20°	7135.7	7390.4	7323.0	6662.3	5690.1	4962.0	4513.8	4381.2	4353.8	4368.6
7003.2	22.5°	7415.6	7642.9	7346.2	6312.9	5094.5	4398.0	4151.8	4156.0	4217.0	4261.2
7238.8	25°	7701.8	7855.4	7285.1	5807.9	4454.8	3983.5	3922.4	3989.8	4109.7	4196.0
7504.0	27.5°	7977.5	8044.8	7152.6	5182.9	3905.6	3686.8	3697.3	3836.2	4017.1	4137.1
7825.9	30°	8288.9	8213.1	6897.9	4480.1	3524.7	3432.1	3520.5	3682.5	3863.5	3970.8
8232.1	32.5°	8640.3	8358.3	6493.9	3829.9	3255.4	3228.0	3373.2	3478.4	3558.4	3590.0
8770.8	35°	9078.0	8562.5	5976.3	3373.2	3013.4	3078.6	3217.5	3164.9	3133.3	3116.5
9494.7	37.5°	9646.2	8838.1	5370.2	3076.5	2817.7	2971.3	3028.1	2864.0	2739.8	2678.8
10372.2	40°	10330.1	9242.1	4787.3	2847.1	2693.5	2878.7	2779.8	2582.0	2424.2	2337.9
11359.1	42.5°	11089.7	9665.1	4297.0	2674.6	2624.1	2802.9	2596.7	2361.0	2106.4	2079.1
12535.4	45°	11887.3	10100.7	3962.4	2542.0	2590.4	2737.7	2491.5	2110.6	1929.7	2041.2
13715.9	47.5°	12684.8	10500.5	3760.4	2443.1	2573.6	2664.1	2398.9	1971.7	1843.4	2005.4
14980.6	50°	13572.8	10858.3	3669.9	2371.6	2554.6	2634.6	2260.0	1936.0	1752.9	1860.2
16289.5	52.5°	14454.5	11136.0	3602.6	2300.0	2527.3	2611.5	2192.7	1893.9	1643.5	1649.8
17606.8	55°	15334.1	11317.0	3528.9	2205.3	2466.3	2560.9	2186.4	1847.6	1561.4	1531.9
18999.8	57.5°	16272.7	11420.1	3438.4	2100.1	2361.0	2432.6	2180.1	1811.8	1536.1	1487.7
20424.5	60°	17228.0	11571.6	3320.6	1971.7	2220.1	2279.0	2165.3	1799.2	1521.4	1439.4
21767.0	62.5°	18084.5	11624.2	3179.6	1849.7	2039.1	2127.5	2133.8	1788.7	1481.4	1340.4
22882.3	65°	18646.3	11397.0	2933.4	1710.8	1843.4	1971.7	2072.7	1752.9	1409.9	1268.9
23433.6	67.5°	18623.2	10748.8	2548.3	1531.9	1654.0	1799.2	1984.4	1691.9	1323.6	1180.5
23017.0	70°	17756.2	9469.4	2060.1	1323.6	1445.7	1614.0	1870.7	1601.4	1220.5	1083.7
20466.6	72.5°	15228.9	7411.4	1496.2	1079.5	1203.7	1422.5	1723.4	1492.0	1115.3	997.4
15125.8	75°	10879.3	4690.5	1014.3	829.1	936.4	1205.8	1540.4	1363.6	1018.5	1001.7
7575.5	77.5°	5557.5	2241.1	671.3	606.0	652.3	951.1	1294.2	1218.4	1033.2	827.0
2154.8	80°	1807.6	827.0	423.0	412.4	433.5	633.4	1001.7	999.5	782.8	561.9
521.9	82.5°	576.6	355.6	275.7	265.1	254.6	397.7	698.6	791.2	528.2	355.6
187.3	85°	229.4	212.5	162.0	149.4	107.3	187.3	366.2	526.1	393.5	256.7
48.4	87.5°	84.2	84.2	44.2	31.6	23.1	63.1	98.9	157.8	225.2	132.6
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>
5732.2
6176.2
6388.7
6346.6
6026.8
5507.0
4983.0
4591.6
4362.2
4271.8
4219.1
4166.5
3996.1
3606.8
3133.3
2693.5
2344.2
2106.4
2100.1
2081.2
1940.2
1694.0
1553.0
1494.1
1445.7
1340.4
1268.9
1186.8
1096.3
991.1
944.8
736.5
496.6
353.5
263.0
130.5
0.0

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