

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: P954212

Luminaire Tested: **GALN-SB7C-740-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954212
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-740-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57103 lumens
Efficiency: N/A
Efficacy: 162.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

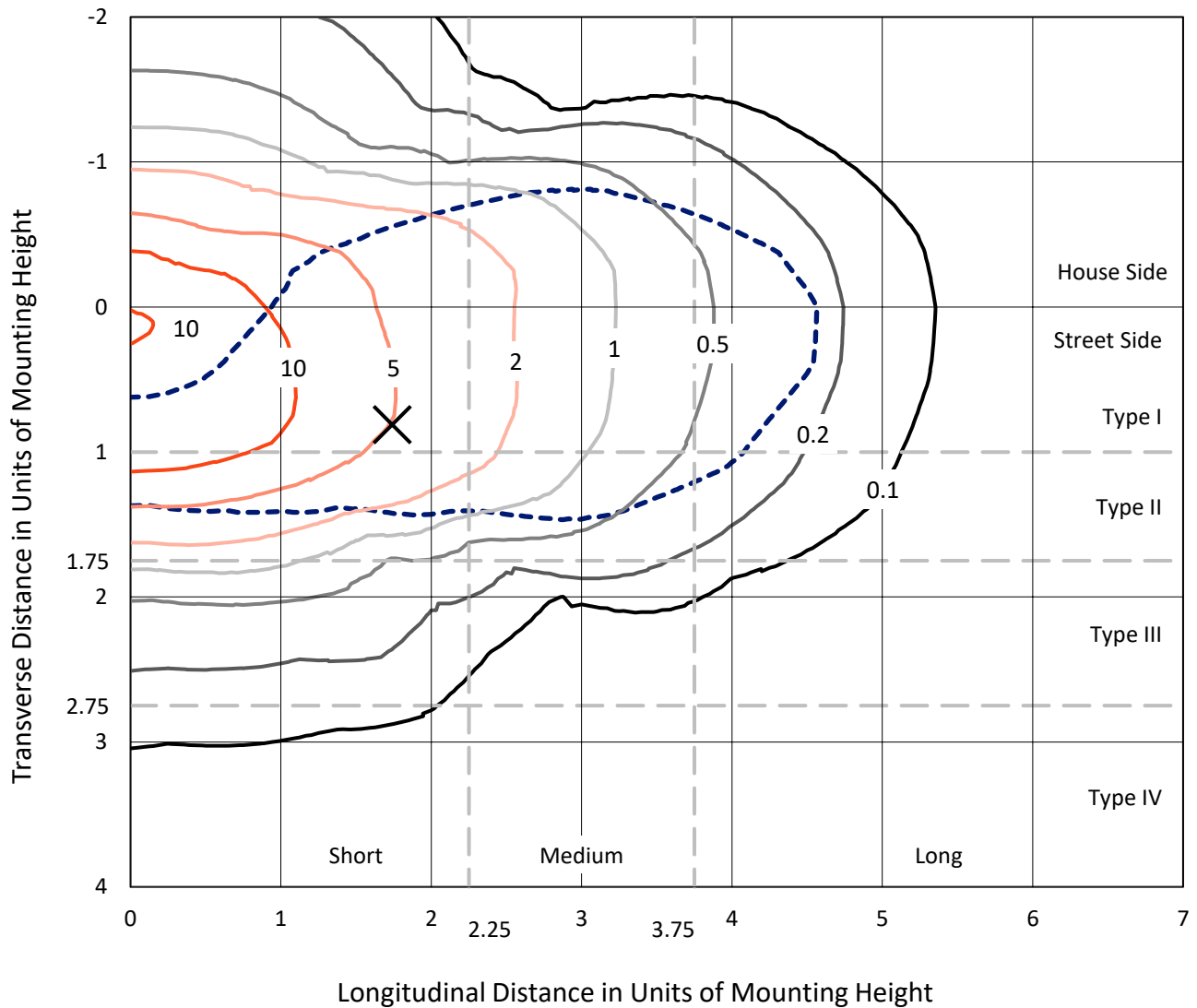
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

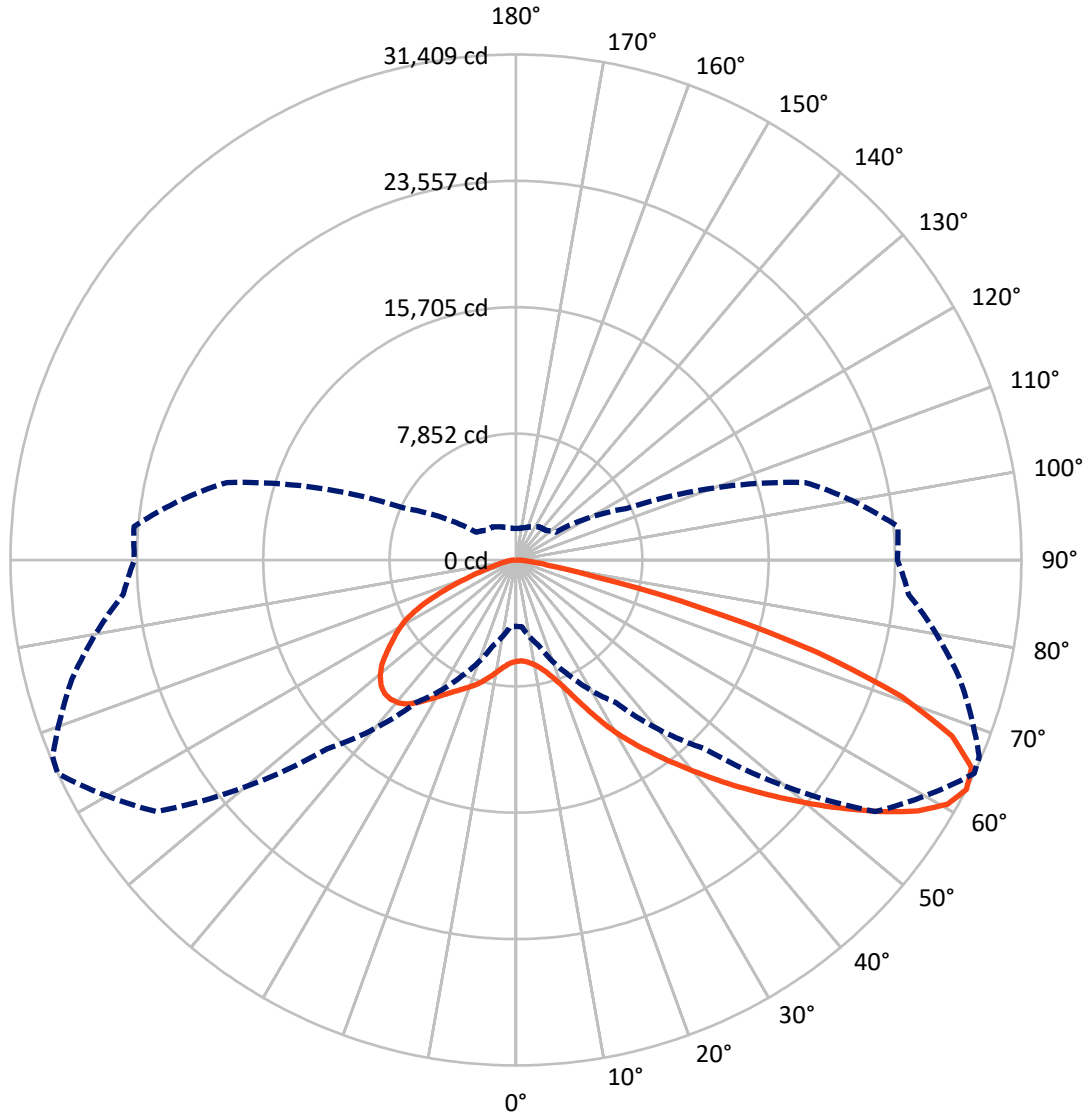
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18019.2	0.0	18019.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	39083.8	0.0	39083.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	57103.0	0.0	57103.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.4	1.1
10°-20°	2127.4	3.7
20°-30°	4313.6	7.6
30°-40°	7464.6	13.1
40°-50°	11296.2	19.8
50°-60°	13244.0	23.2
60°-70°	11103.5	19.4
70°-80°	6130.1	10.7
80°-90°	796.3	1.4
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°	57103.0	100.0
0°-180°	57103.0	100.0

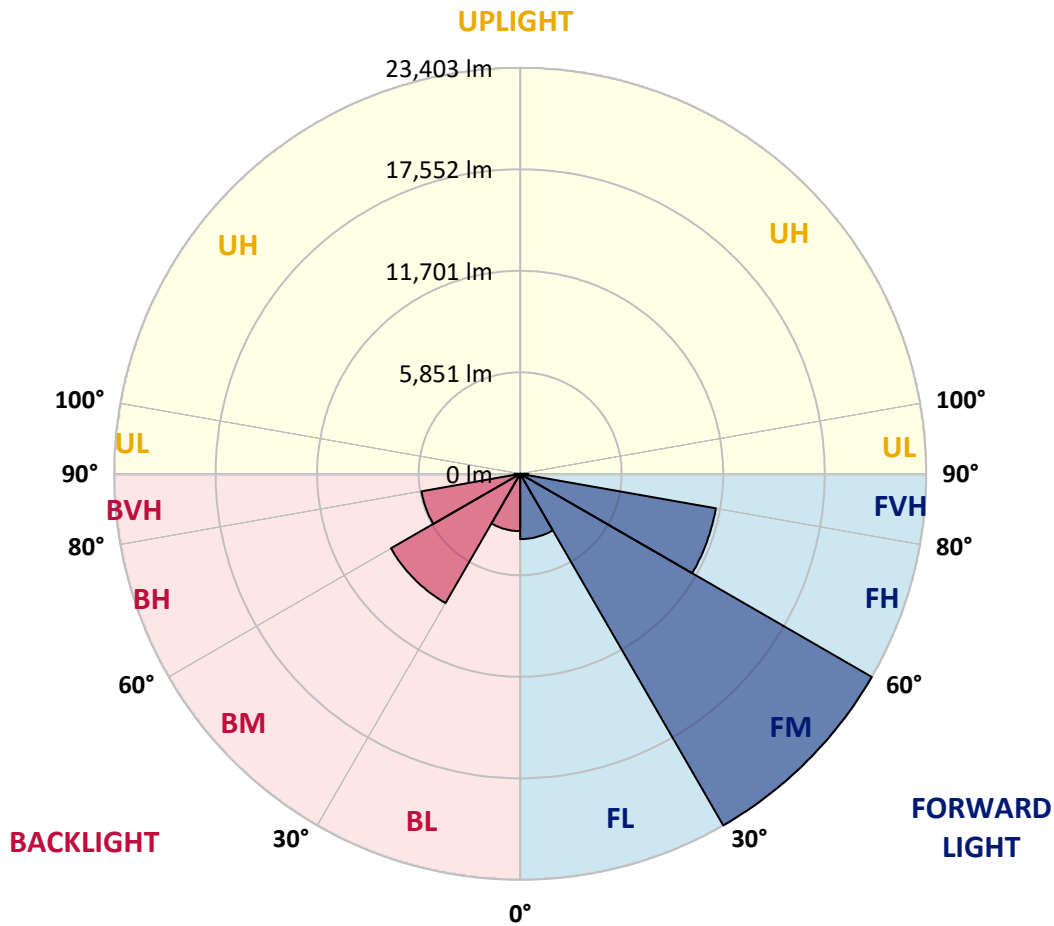


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3763.8	6.6			
FM (30°-60°)	23402.7	41.0			
FH (60°-80°)	11453.2	20.1			G4/12000
FVH (80°-90°)	464.1	0.8			G3/500
BL (0°-30°)	3304.5	5.8	B4/5000		
BM (30°-60°)	8602.1	15.1	B5		
BH (60°-80°)	5780.4	10.1	B5		G5
BVH (80°-90°)	332.2	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	6292.5	6292.5	6292.5	6292.5	6292.5	6292.5	6292.5	6292.5	6292.5	6292.5
2.5°	6251.0	6233.3	6248.1	6248.1	6254.0	6251.0	6271.8	6277.7	6286.6	6304.4
5°	6188.8	6185.9	6212.5	6236.2	6259.9	6280.7	6307.3	6345.8	6351.8	6372.5
7.5°	6168.1	6150.3	6191.8	6221.4	6277.7	6328.1	6399.2	6464.3	6491.0	6499.9
10°	6328.1	6298.4	6336.9	6354.7	6402.1	6452.5	6535.4	6639.1	6668.7	6704.3
12.5°	6600.6	6568.0	6624.3	6651.0	6695.4	6739.9	6796.1	6896.9	6911.7	6976.9
15°	6973.9	6935.4	6970.9	7003.5	7077.6	7119.1	7175.3	7273.1	7273.1	7323.5
17.5°	7480.5	7430.1	7456.8	7468.6	7516.0	7578.3	7673.1	7759.0	7803.4	7785.6
20°	8236.0	8173.7	8173.7	8114.5	8096.7	8147.1	8271.5	8390.0	8437.4	8345.6
22.5°	9370.6	9281.7	9231.4	9029.9	8949.9	8955.9	9080.3	9225.4	9264.0	9101.0
25°	10813.4	10674.1	10606.0	10309.8	10129.0	9972.0	10069.8	10256.4	10309.8	10108.3
27.5°	12256.2	12265.0	12199.9	11844.4	11545.1	11257.8	11207.4	11402.9	11459.2	11231.1
30°	14279.6	14069.3	13944.8	13518.2	13091.6	12688.7	12481.3	12561.3	12576.1	12303.6
32.5°	16024.6	15971.2	15704.6	15331.3	14783.2	14152.2	13805.6	13678.2	13654.5	13266.4
35°	18012.4	17982.8	17701.4	17257.0	16664.5	15787.5	15162.4	14798.0	14768.4	14223.3
37.5°	20032.9	20032.9	19757.4	19271.5	18658.3	17562.1	16611.1	16033.4	15938.6	15227.6
40°	21644.6	21546.8	21597.2	21392.7	20690.6	19526.3	18219.8	17381.4	17254.0	16400.8
42.5°	22560.0	22527.4	22829.6	23057.7	22770.3	21840.1	19991.4	18842.0	18664.2	17692.5
45°	22764.4	22728.9	23268.0	24103.5	24506.4	24124.2	21917.1	20379.5	20163.3	19043.4
47.5°	22293.4	22222.3	23013.3	24331.6	25623.3	26295.8	24002.8	22047.5	21733.4	20358.8
50°	20877.2	20809.1	22006.0	23756.9	25999.5	27771.2	26266.2	23816.1	23336.2	21769.0
52.5°	17799.1	17831.7	19707.0	22112.6	25504.8	28689.5	28215.5	25679.6	25101.9	23211.8
55°	13864.8	13935.9	16240.8	18889.4	23525.8	28550.3	29545.7	27599.3	27024.6	24568.6
57.5°	9927.6	10241.6	12401.3	15023.2	19724.8	26343.2	29836.1	29424.3	28867.3	26049.9
60°	6434.7	6491.0	8712.9	11355.5	15020.2	22420.7	29246.5	30807.8	30372.3	27560.8
62.5°	4123.9	4162.4	5516.3	7942.7	10810.4	16587.4	27261.6	31409.2	31275.9	28559.2
65°	3030.7	3001.1	3706.2	5249.7	7282.0	10229.8	23407.3	31118.9	31382.5	29184.3
67.5°	2530.0	2488.6	2835.2	3635.1	5365.2	5809.6	17319.2	29231.7	30197.5	29113.2
70°	2304.9	2269.3	2479.7	2698.9	4186.1	3889.9	8730.7	25412.9	26900.2	28304.4
72.5°	1952.3	1890.1	2177.5	2396.7	3255.9	2983.3	3608.4	19520.4	21333.5	25712.2
75°	1513.9	1472.4	1718.3	2109.4	2447.1	2328.6	2281.2	11853.3	13832.2	19884.8
77.5°	1199.8	1143.6	1368.7	1644.2	2201.2	1756.8	1662.0	5104.5	7065.7	12694.6
80°	903.6	853.2	1039.9	1300.6	1691.6	1324.3	1075.4	2082.7	2663.4	6431.7
82.5°	642.9	598.4	725.8	953.9	1137.6	1188.0	660.7	1167.3	1312.4	2479.7
85°	411.8	385.1	485.9	598.4	722.9	764.3	402.9	610.3	669.5	1022.1
87.5°	225.2	183.7	260.7	278.5	334.8	305.1	192.6	222.2	240.0	370.3
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°
6292.5	0°	6292.5	6292.5	6292.5	6292.5	6292.5	6292.5	6292.5	6292.5	6292.5	6292.5
6304.4	2.5°	6316.2	6325.1	6354.7	6363.6	6384.3	6411.0	6428.8	6446.6	6446.6	6464.3
6399.2	5°	6402.1	6422.9	6485.1	6517.7	6571.0	6624.3	6656.9	6695.4	6719.1	6731.0
6550.2	7.5°	6568.0	6600.6	6689.5	6745.8	6837.6	6911.7	6962.0	7015.4	7027.2	7059.8
6760.6	10°	6793.2	6831.7	6932.4	7039.1	7148.7	7240.5	7287.9	7326.4	7341.3	7347.2
7030.2	12.5°	7050.9	7107.2	7237.6	7367.9	7483.5	7563.4	7575.3	7566.4	7524.9	7489.4
7362.0	15°	7367.9	7418.3	7563.4	7705.6	7818.2	7833.0	7759.0	7711.6	7661.2	7652.3
7732.3	17.5°	7747.1	7773.8	7907.1	8046.3	8055.2	8004.9	7895.3	7850.8	7803.4	7770.8
8215.2	20°	8188.5	8179.7	8274.5	8333.7	8271.5	8117.4	7951.5	7877.5	7830.1	7791.6
8807.7	22.5°	8715.9	8647.7	8635.9	8621.1	8455.2	8132.3	7907.1	7812.3	7738.2	7684.9
9634.3	25°	9483.2	9222.5	9041.8	8941.0	8567.8	8052.3	7764.9	7554.6	7415.3	7323.5
10644.5	27.5°	10443.1	10004.6	9548.4	9302.5	8567.8	7889.3	7421.2	7080.5	6852.4	6757.6
11622.2	30°	11358.5	10899.3	10226.8	9738.0	8547.0	7622.7	6867.2	6393.2	6126.6	6031.8
12457.6	32.5°	12140.6	11639.9	10946.7	10214.9	8496.7	7190.2	6179.9	5655.6	5397.8	5285.2
13284.2	35°	12866.5	12333.2	11669.6	10739.3	8363.3	6556.2	5424.5	5024.5	4737.2	4556.4
14125.5	37.5°	13610.1	12976.1	12353.9	11213.3	8123.4	5815.5	4843.8	4503.1	4165.4	3922.4
15020.2	40°	14418.8	13660.4	13085.7	11494.8	7729.4	5110.4	4393.5	4082.4	3724.0	3466.2
16051.2	42.5°	15363.9	14481.1	13900.4	11639.9	7190.2	4609.8	4100.2	3795.1	3457.3	3247.0
17156.3	45°	16350.4	15384.6	14644.0	11637.0	6588.8	4375.7	4005.4	3703.2	3329.9	3110.7
18290.9	47.5°	17384.4	16329.7	15286.9	11447.4	6067.3	4408.3	3952.1	3504.7	3092.9	2879.6
19437.4	50°	18421.3	17363.6	15909.0	11091.9	5845.2	4337.2	3753.6	3226.2	2740.4	2547.8
20512.8	52.5°	19449.3	18462.7	16445.2	10585.3	5620.0	4073.5	3498.8	2864.8	2595.2	2461.9
21623.8	55°	20483.2	19550.0	17028.9	9847.6	5057.1	3765.4	3072.2	2728.5	2479.7	2358.2
22711.1	57.5°	21520.1	20806.1	17582.9	9109.9	4349.1	3386.2	2838.1	2562.6	2364.1	2260.4
23620.6	60°	22598.5	22243.0	18154.6	8431.5	3649.9	2900.4	2666.3	2429.3	2227.9	2112.3
24494.5	62.5°	23709.5	23825.0	18602.0	7557.5	3007.0	2604.1	2512.3	2269.3	2073.8	1964.2
25217.4	65°	24829.3	25350.7	18895.3	6345.8	2438.2	2322.7	2346.4	2094.5	1896.0	1801.2
25747.7	67.5°	25673.6	26449.8	18812.3	4802.3	1999.7	2056.0	2139.0	1910.9	1724.2	1650.2
25661.8	70°	25768.5	26319.5	17994.7	3288.5	1673.9	1795.3	1907.9	1730.1	1537.6	1484.2
24453.1	72.5°	24506.4	24541.9	15716.4	2147.9	1416.1	1576.1	1665.0	1546.5	1359.8	1306.5
21392.7	75°	21197.2	20296.6	11539.2	1416.1	1185.0	1353.9	1436.8	1353.9	1173.2	1185.0
16006.8	77.5°	16060.1	14374.4	7006.5	1007.3	989.5	1137.6	1250.2	1191.0	1036.9	1164.3
8049.3	80°	8274.5	7776.8	3125.5	752.5	782.1	909.5	1028.0	951.0	820.6	782.1
1798.3	82.5°	1896.0	2204.2	1232.4	539.2	565.9	654.7	785.1	714.0	589.6	497.7
749.5	85°	663.6	725.8	545.1	337.7	331.8	408.8	533.3	477.0	399.9	320.0
317.0	87.5°	210.3	275.5	204.4	136.3	142.2	183.7	245.9	225.2	186.6	121.5
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>
6292.5
6464.3
6736.9
7048.0
7332.4
7489.4
7652.3
7773.8
7794.5
7702.7
7359.0
6805.0
6088.1
5341.5
4615.7
3987.6
3516.6
3288.5
3146.3
2909.2
2559.7
2461.9
2346.4
2242.7
2103.4
1961.2
1798.3
1653.1
1487.2
1303.5
1143.6
1025.0
714.0
491.8
337.7
127.4
0.0

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