

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: P956755

Luminaire Tested: **GALN-SB9B-760-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956755
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-SB9B-760-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 5700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55706 lumens
Efficiency: N/A
Efficacy: 169.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

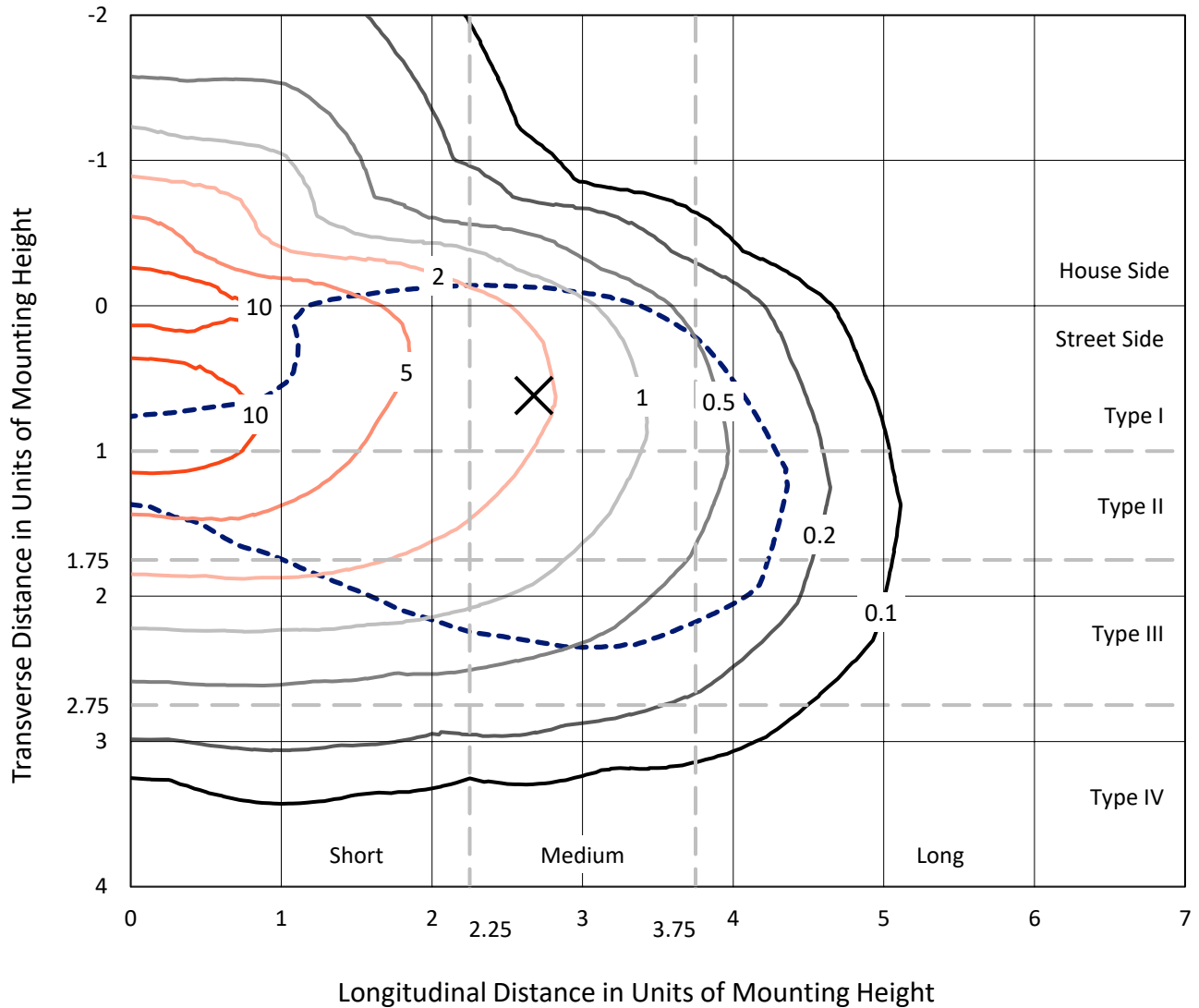
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

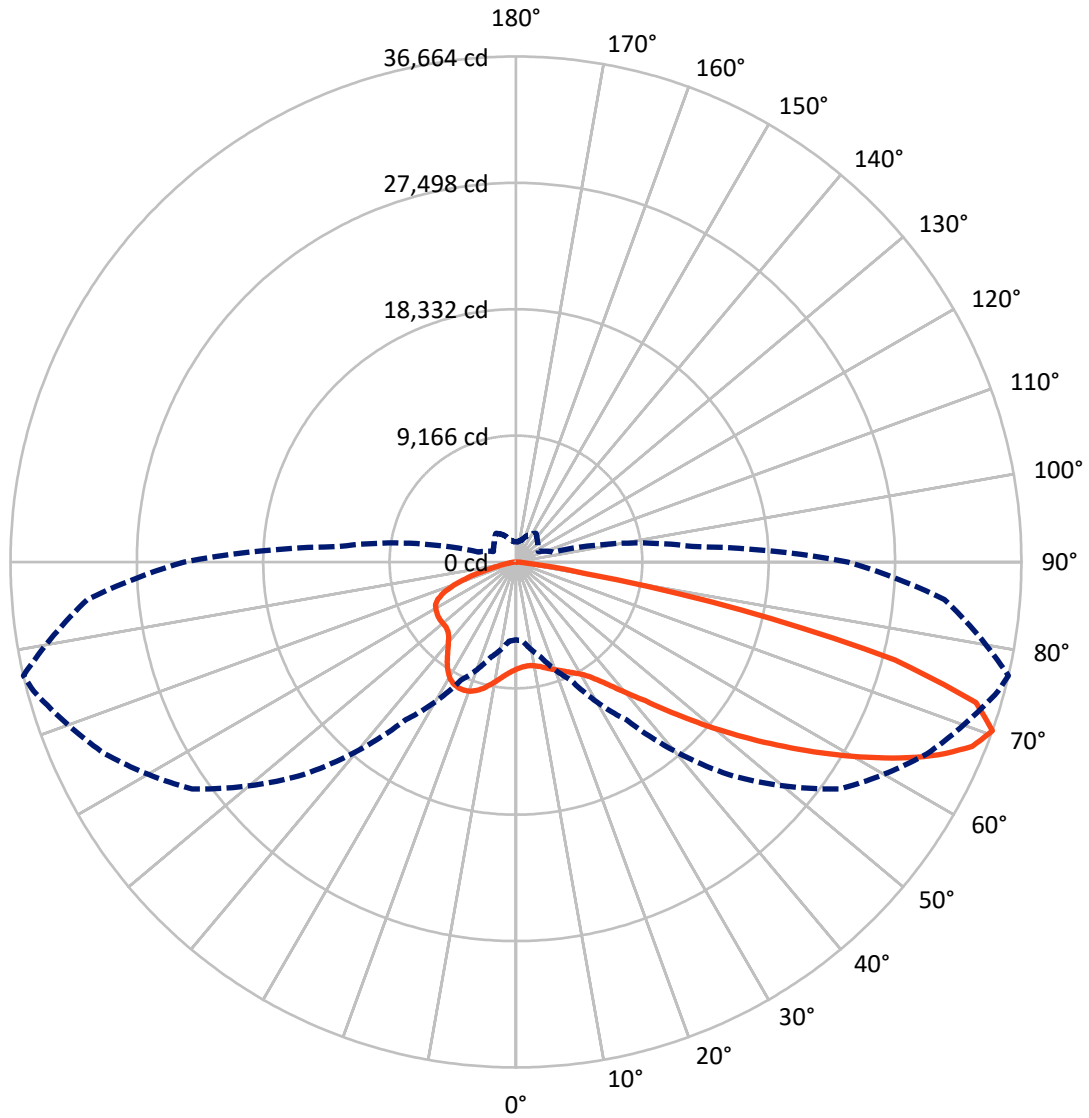
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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	12198.8	0.0	12198.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	43507.3	0.0	43507.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	55706.0	0.0	55706.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	741.2	1.3
10°-20°	2139.2	3.8
20°-30°	3658.2	6.6
30°-40°	5882.8	10.6
40°-50°	9184.7	16.5
50°-60°	12268.5	22.0
60°-70°	13076.3	23.5
70°-80°	8049.7	14.5
80°-90°	705.4	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°	55706.0	100.0
0°-180°	55706.0	100.0



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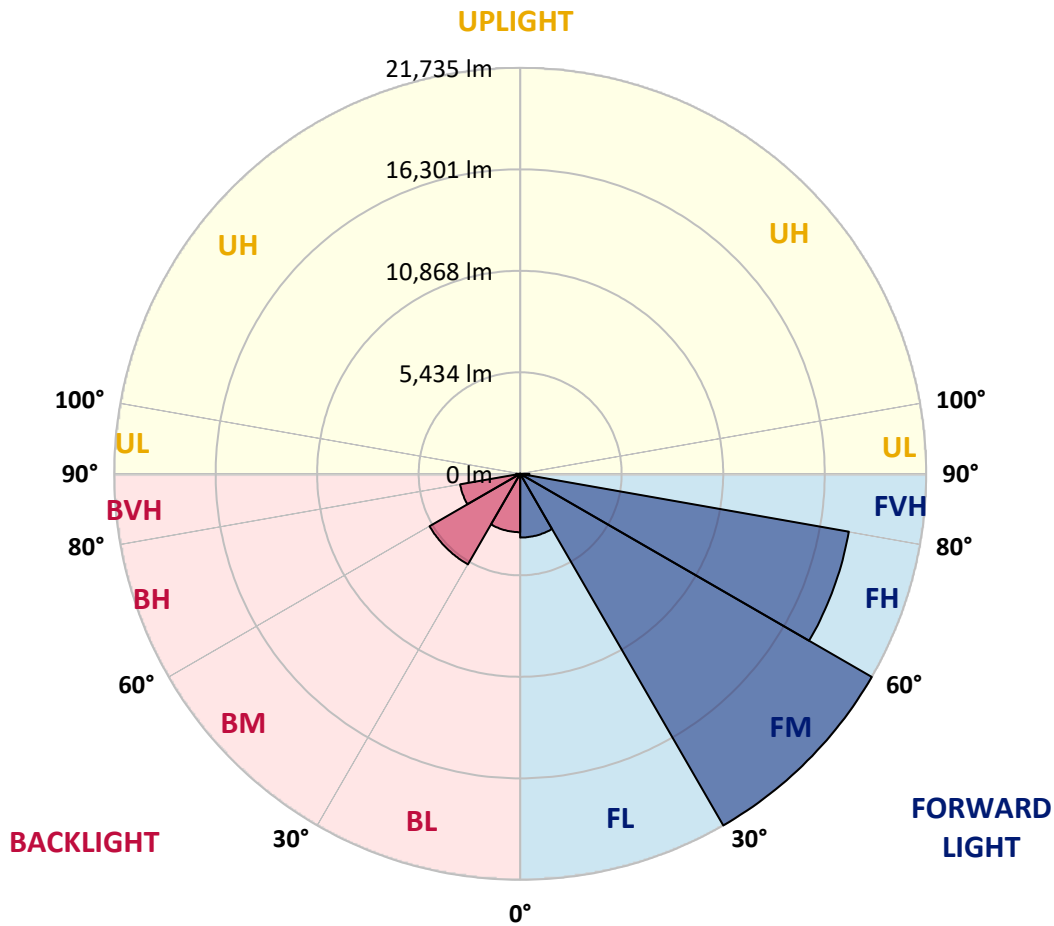
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3412.9	6.1			
FM (30°-60°)	21735.3	39.0			
FH (60°-80°)	17865.8	32.1			G5
FVH (80°-90°)	493.2	0.9			G3/500
BL (0°-30°)	3125.7	5.6	B4/5000		
BM (30°-60°)	5600.7	10.1	B4/8500		
BH (60°-80°)	3260.2	5.9	B4/5000		G4/5000
BVH (80°-90°)	212.1	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7771.5	7771.5	7771.5	7771.5	7771.5	7771.5	7771.5	7771.5	7771.5	7771.5
2.5°	7163.8	7161.0	7198.0	7209.5	7277.9	7326.4	7417.7	7514.7	7640.3	7654.5
5°	6750.1	6750.1	6792.9	6838.6	6927.0	7024.0	7163.8	7332.1	7549.0	7583.2
7.5°	6399.2	6422.0	6459.1	6547.6	6650.3	6790.1	7004.0	7243.7	7529.0	7583.2
10°	6116.8	6142.4	6188.1	6259.4	6413.5	6607.5	6887.1	7195.2	7577.5	7663.1
12.5°	6028.3	6054.0	6079.7	6133.9	6276.5	6504.8	6838.6	7218.0	7694.5	7780.1
15°	6233.7	6265.1	6245.2	6230.9	6305.1	6513.3	6861.4	7300.8	7840.0	7962.6
17.5°	6707.3	6718.7	6673.1	6539.0	6527.6	6638.9	6969.8	7414.9	8022.6	8156.6
20°	7471.9	7452.0	7357.8	7092.5	6941.3	6918.5	7155.3	7586.1	8210.9	8353.5
22.5°	8510.4	8487.6	8299.3	7879.9	7543.3	7320.7	7423.4	7808.6	8422.0	8581.7
25°	9805.7	9774.3	9497.5	8926.9	8404.9	7854.2	7788.6	8102.4	8681.6	8829.9
27.5°	11317.7	11292.1	10992.5	10239.3	9486.1	8584.6	8242.2	8447.6	8952.6	9121.0
30°	12943.9	13018.1	12487.5	11677.2	10724.3	9537.5	8852.8	8872.7	9303.5	9454.7
32.5°	14855.4	14983.8	14344.7	13317.7	12016.7	10573.1	9623.1	9466.2	9814.2	9939.8
35°	16749.8	16895.3	16364.6	15229.2	13731.4	11794.2	10427.6	10148.0	10493.2	10630.2
37.5°	18387.4	18581.4	18307.5	17320.4	15565.8	13266.3	11477.5	10949.7	11329.2	11500.3
40°	19679.8	19976.5	19956.5	19340.3	17728.4	15052.3	12809.8	11939.7	12367.6	12553.1
42.5°	20729.7	20986.5	21209.0	21177.6	19985.1	17080.7	14376.1	13226.4	13551.6	13765.6
45°	21454.3	21728.2	22207.5	22723.9	22156.2	19251.9	16170.6	14752.7	15049.4	15371.8
47.5°	22102.0	22412.9	23034.9	23853.7	23999.2	21431.5	18136.3	16530.1	16801.2	17134.9
50°	22159.0	22427.2	23391.5	24552.7	25308.7	23525.6	20247.5	18524.3	18778.3	19134.9
52.5°	20781.0	21203.3	22886.5	24532.7	25910.7	25277.3	22344.5	20598.5	20883.8	21311.7
55°	16130.7	16749.8	21405.8	23768.1	25696.7	26410.0	24338.7	22803.8	23169.0	23616.9
57.5°	13894.0	14165.0	16992.3	22375.9	24721.0	26703.8	26022.0	25032.0	25619.7	26110.4
60°	12487.5	12712.8	14384.7	20210.5	23437.2	26238.8	27322.9	27108.9	28124.6	28709.5
62.5°	10981.1	11195.1	12715.7	16875.3	21793.9	25465.6	28144.6	29026.1	30692.3	31331.3
65°	9486.1	9668.7	11126.6	14179.3	19705.5	24692.5	28569.7	30683.7	33068.8	33730.7
67.5°	7820.0	7971.2	9349.2	11962.5	17166.3	23634.0	28780.8	31987.5	35137.2	35704.9
70°	5643.2	5760.2	7183.8	9460.5	13979.6	21813.8	28695.2	32911.9	36209.9	36663.5
72.5°	2667.5	2773.1	4444.9	6142.4	9874.1	18270.4	26963.4	32178.7	35120.1	34894.7
75°	1423.6	1514.9	2553.4	3369.4	5215.2	12524.5	22064.9	27719.5	29491.2	28395.6
77.5°	964.3	1035.6	1580.5	2022.8	2382.2	5945.6	14182.1	19191.9	18464.4	16655.6
80°	764.6	838.8	1295.2	1369.4	1152.6	2148.3	5860.0	8884.2	6382.1	5104.0
82.5°	587.7	670.4	1089.8	992.8	627.7	881.6	1706.1	2810.2	1634.8	1243.9
85°	359.5	447.9	855.9	633.4	353.8	402.3	579.2	781.7	499.3	416.5
87.5°	182.6	256.8	433.7	231.1	159.8	94.1	154.1	154.1	131.2	114.1
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°
7771.5	0°	7771.5	7771.5	7771.5	7771.5	7771.5	7771.5	7771.5	7771.5	7771.5	7771.5
7731.6	2.5°	7800.0	7857.1	7954.1	8045.4	8116.7	8185.2	8253.6	8290.7	8302.1	8347.8
7774.3	5°	7891.3	7996.9	8185.2	8362.1	8473.3	8541.8	8590.3	8618.8	8624.5	8638.8
7891.3	7.5°	8059.6	8228.0	8490.4	8667.3	8750.1	8744.4	8724.4	8653.1	8624.5	8598.9
8062.5	10°	8296.4	8519.0	8841.4	8964.0	8912.7	8775.7	8598.9	8390.6	8293.6	8199.4
8296.4	12.5°	8590.3	8872.7	9189.4	9183.7	8929.8	8578.9	8168.1	7848.5	7646.0	7500.5
8584.6	15°	8946.9	9272.2	9514.7	9320.7	8764.3	8133.8	7531.8	7115.3	6932.7	6773.0
8875.6	17.5°	9315.0	9663.0	9774.3	9277.9	8347.8	7474.8	6792.9	6464.8	6285.1	6199.5
9189.4	20°	9674.4	10019.6	9928.3	9032.5	7714.4	6727.3	6119.6	5939.9	5902.8	5922.8
9494.7	22.5°	10053.9	10362.0	9959.7	8558.9	6907.0	5962.7	5628.9	5634.6	5717.4	5777.3
9814.2	25°	10441.9	10650.1	9877.0	7874.2	6039.7	5400.7	5317.9	5409.2	5571.9	5688.8
10173.7	27.5°	10815.6	10906.9	9697.3	7026.9	5295.1	4998.4	5012.7	5201.0	5446.3	5608.9
10610.2	30°	11237.9	11135.1	9352.0	6074.0	4778.7	4653.2	4773.0	4992.7	5238.1	5383.6
11160.8	32.5°	11714.3	11332.0	8804.3	5192.4	4413.5	4376.5	4573.3	4716.0	4824.4	4867.2
11891.2	35°	12307.7	11608.7	8102.4	4573.3	4085.5	4173.9	4362.2	4290.9	4248.1	4225.3
12872.6	37.5°	13078.0	11982.5	7280.8	4171.0	3820.1	4028.4	4105.4	3882.9	3714.6	3631.8
14062.3	40°	14005.2	12530.3	6490.5	3860.1	3651.8	3902.9	3768.8	3500.6	3286.6	3169.7
15400.3	42.5°	15035.2	13103.7	5825.8	3626.1	3557.7	3800.2	3520.6	3201.0	2855.8	2818.7
16995.2	45°	16116.4	13694.3	5372.1	3446.4	3512.0	3711.7	3377.9	2861.5	2616.2	2767.4
18595.7	47.5°	17197.7	14236.3	5098.3	3312.3	3489.2	3611.9	3252.4	2673.2	2499.2	2718.9
20310.3	50°	18401.7	14721.3	4975.6	3215.3	3463.5	3571.9	3064.1	2624.7	2376.5	2522.0
22084.9	52.5°	19597.1	15097.9	4884.3	3118.3	3426.4	3540.5	2972.8	2567.7	2228.2	2236.7
23870.8	55°	20789.6	15343.3	4784.4	2989.9	3343.7	3472.1	2964.2	2504.9	2116.9	2077.0
25759.5	57.5°	22062.0	15483.1	4661.8	2847.3	3201.0	3298.0	2955.7	2456.4	2082.7	2017.1
27690.9	60°	23357.3	15688.5	4502.0	2673.2	3009.9	3089.8	2935.7	2439.3	2062.7	1951.4
29511.1	62.5°	24518.4	15759.8	4310.8	2507.8	2764.5	2884.4	2892.9	2425.0	2008.5	1817.3
31023.2	65°	25280.2	15451.7	3977.0	2319.5	2499.2	2673.2	2810.2	2376.5	1911.5	1720.3
31770.7	67.5°	25248.8	14573.0	3454.9	2077.0	2242.4	2439.3	2690.4	2293.8	1794.5	1600.5
31205.8	70°	24073.4	12838.4	2793.1	1794.5	1960.0	2188.2	2536.3	2171.1	1654.7	1469.3
27748.0	72.5°	20647.0	10048.2	2028.5	1463.6	1631.9	1928.6	2336.6	2022.8	1512.1	1352.3
20507.2	75°	14749.9	6359.3	1375.1	1124.1	1269.6	1634.8	2088.4	1848.7	1380.8	1358.0
10270.7	77.5°	7534.7	3038.4	910.1	821.7	884.4	1289.5	1754.6	1651.9	1400.8	1121.2
2921.4	80°	2450.7	1121.2	573.4	559.2	587.7	858.7	1358.0	1355.2	1061.3	761.7
707.5	82.5°	781.7	482.2	373.7	359.5	345.2	539.2	947.2	1072.7	716.1	482.2
253.9	85°	311.0	288.2	219.7	202.6	145.5	253.9	496.4	713.2	533.5	348.1
65.6	87.5°	114.1	114.1	59.9	42.8	31.4	85.6	134.1	214.0	305.3	179.7
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>
7771.5
8373.5
8661.6
8604.6
8170.9
7466.2
6755.8
6225.2
5914.2
5791.5
5720.2
5648.9
5417.8
4890.0
4248.1
3651.8
3178.2
2855.8
2847.3
2821.6
2630.4
2296.6
2105.5
2025.6
1960.0
1817.3
1720.3
1609.1
1486.4
1343.7
1281.0
998.5
673.3
479.3
356.6
176.9
0.0

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