

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: P957175

Luminaire Tested: **GALN-SB9C-835-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957175
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-SB9C-835-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64953 lumens
Efficiency: N/A
Efficacy: 144.4 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

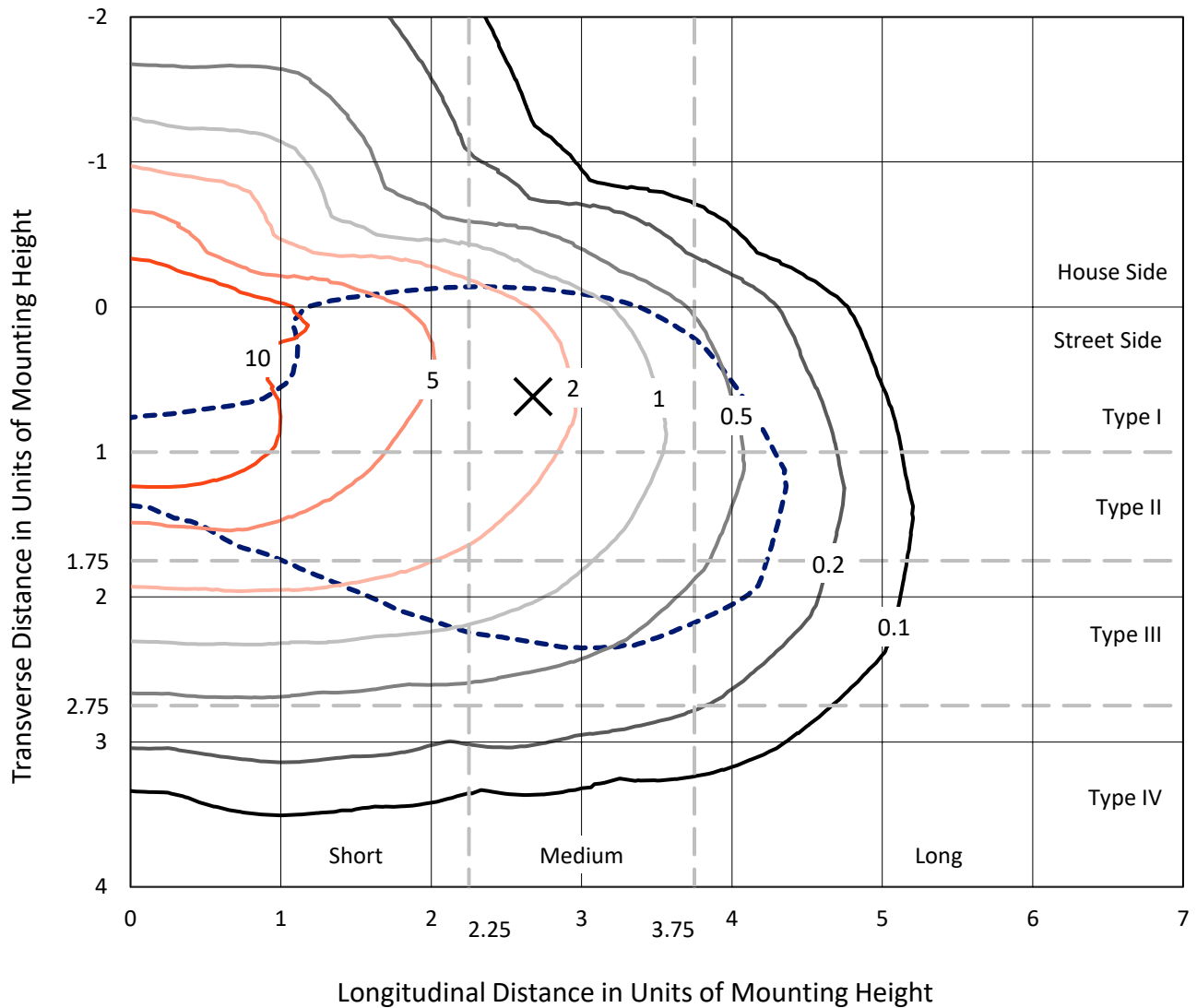
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

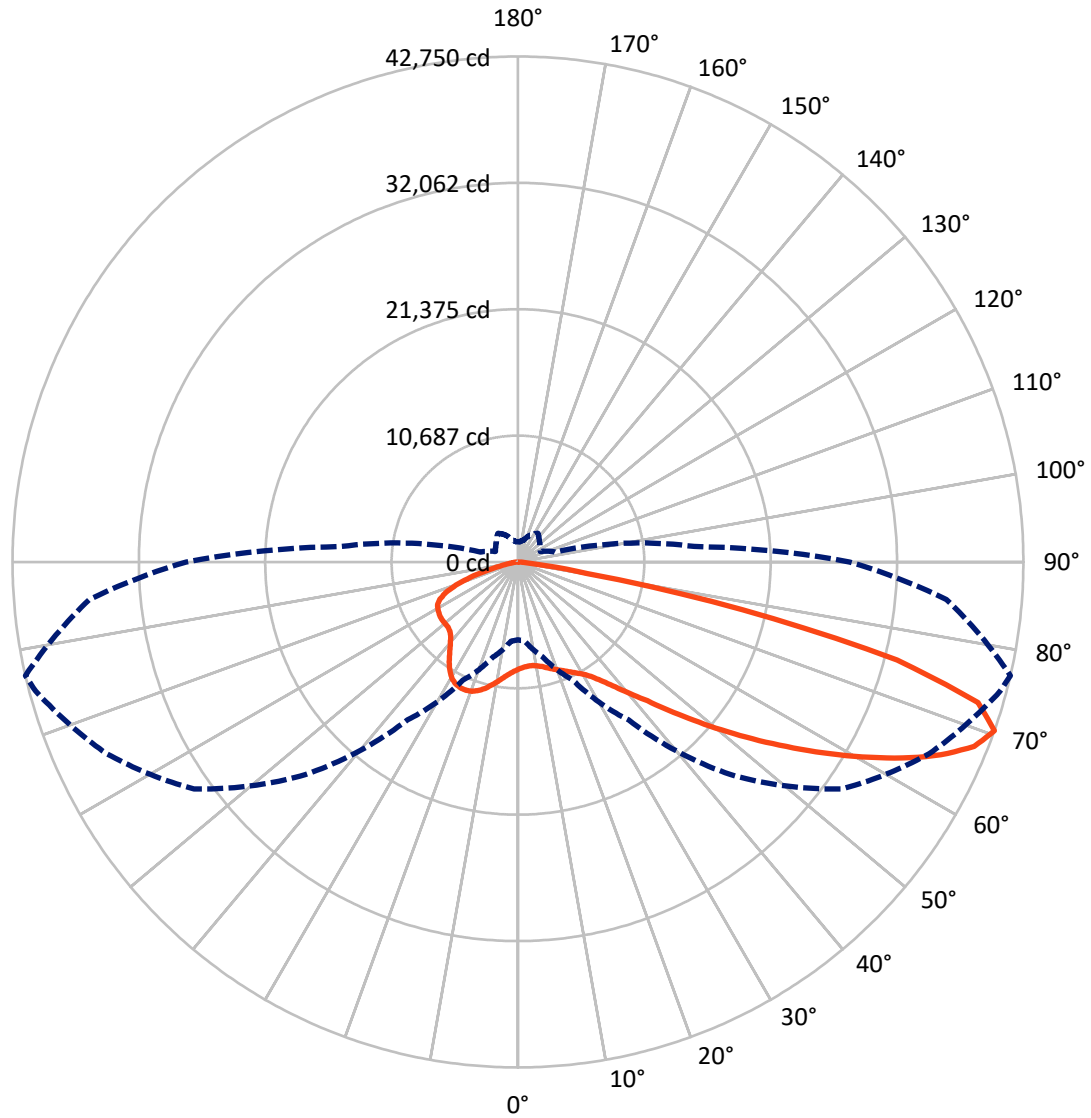
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 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	14223.7	0.0	14223.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	50729.3	0.0	50729.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	64953.0	0.0	64953.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	864.2	1.3
10°-20°	2494.2	3.8
20°-30°	4265.5	6.6
30°-40°	6859.4	10.6
40°-50°	10709.3	16.5
50°-60°	14305.0	22.0
60°-70°	15247.0	23.5
70°-80°	9385.9	14.5
80°-90°	822.5	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°	64953.0	100.0
0°-180°	64953.0	100.0

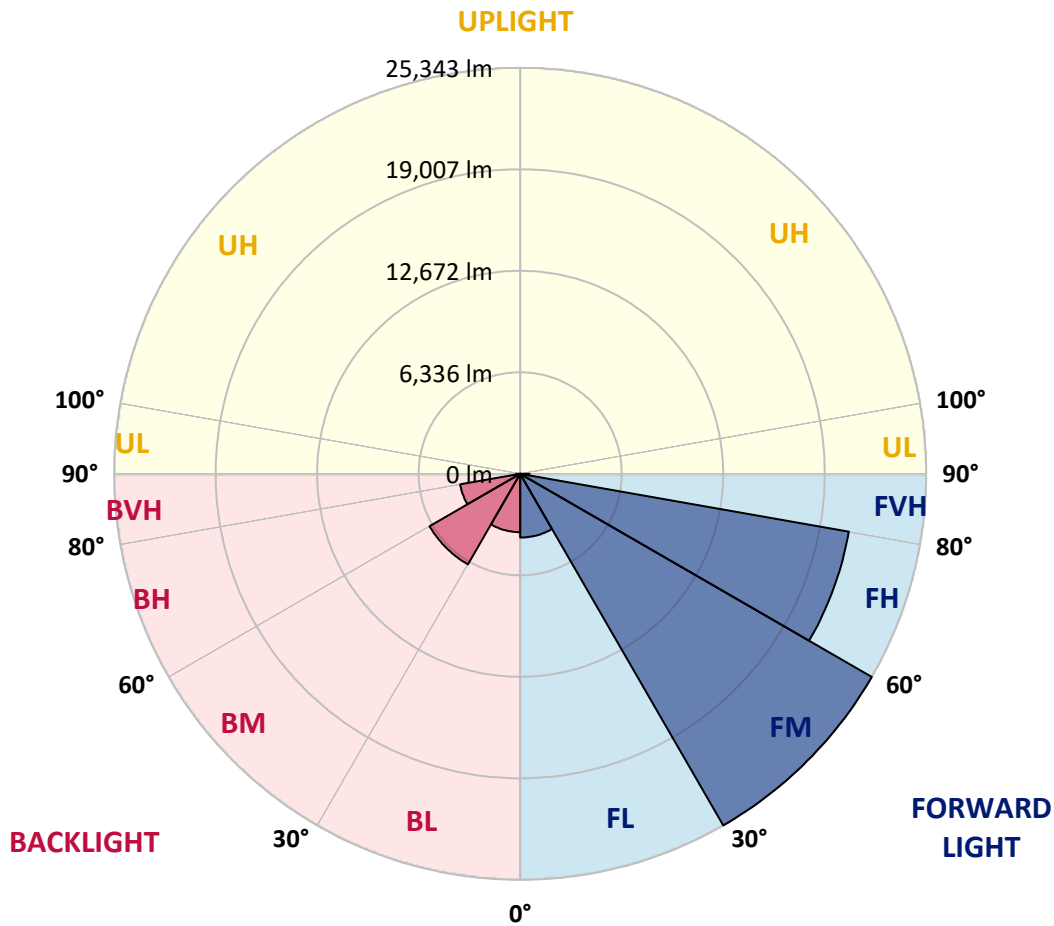


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3979.4	6.1			
FM (30°-60°)	25343.3	39.0			
FH (60°-80°)	20831.5	32.1			G5
FVH (80°-90°)	575.1	0.9			G4/750
BL (0°-30°)	3644.6	5.6	B4/5000		
BM (30°-60°)	6530.4	10.1	B4/8500		
BH (60°-80°)	3801.4	5.9	B4/5000		G4/5000
BVH (80°-90°)	247.3	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	9061.5	9061.5	9061.5	9061.5	9061.5	9061.5	9061.5	9061.5	9061.5	9061.5
2.5°	8353.0	8349.7	8392.9	8406.2	8486.0	8542.6	8649.0	8762.1	8908.5	8925.1
5°	7870.6	7870.6	7920.5	7973.8	8076.9	8190.0	8353.0	8549.2	8802.1	8842.0
7.5°	7461.5	7488.1	7531.3	7634.4	7754.2	7917.2	8166.7	8446.1	8778.8	8842.0
10°	7132.1	7162.1	7215.3	7298.5	7478.1	7704.3	8030.3	8389.6	8835.3	8935.1
12.5°	7029.0	7058.9	7088.9	7152.1	7318.4	7584.5	7973.8	8416.2	8971.7	9071.5
15°	7268.5	7305.1	7281.8	7265.2	7351.7	7594.5	8000.4	8512.7	9141.4	9284.4
17.5°	7820.7	7834.0	7780.8	7624.5	7611.2	7740.9	8126.8	8645.7	9354.3	9510.6
20°	8712.2	8689.0	8579.2	8269.8	8093.5	8066.9	8343.0	8845.3	9573.8	9740.2
22.5°	9923.1	9896.5	9676.9	9187.9	8795.4	8535.9	8655.7	9104.8	9820.0	10006.3
25°	11433.4	11396.8	11074.1	10408.8	9800.0	9158.0	9081.5	9447.4	10122.7	10295.7
27.5°	13196.4	13166.5	12817.2	11939.0	11060.8	10009.6	9610.4	9849.9	10438.7	10635.0
30°	15092.6	15179.1	14560.3	13615.6	12504.5	11120.7	10322.3	10345.6	10847.9	11024.2
32.5°	17321.4	17471.1	16725.9	15528.4	14011.5	12328.2	11220.5	11037.5	11443.3	11589.7
35°	19530.2	19699.9	19081.1	17757.2	16010.7	13752.0	12158.6	11832.6	12235.1	12394.7
37.5°	21439.6	21665.9	21346.5	20195.5	18149.7	15468.5	13382.7	12767.3	13209.8	13409.3
40°	22946.6	23292.5	23269.3	22550.7	20671.2	17550.9	14936.2	13921.6	14420.6	14636.8
42.5°	24170.7	24470.1	24729.6	24693.0	23302.5	19916.1	16762.5	15421.9	15801.1	16050.6
45°	25015.7	25335.0	25893.9	26496.0	25834.0	22447.6	18854.9	17201.6	17547.6	17923.5
47.5°	25770.8	26133.4	26858.6	27813.3	27983.0	24989.1	21146.9	19274.1	19590.1	19979.3
50°	25837.4	26150.0	27274.4	28628.3	29509.9	27430.8	23608.6	21599.3	21895.4	22311.2
52.5°	24230.6	24723.0	26685.6	28605.0	30211.8	29473.3	26053.6	24017.7	24350.4	24849.4
55°	18808.3	19530.2	24959.1	27713.5	29962.3	30793.9	28378.8	26589.2	27015.0	27537.2
57.5°	16200.3	16516.3	19813.0	26090.2	28824.6	31136.6	30341.5	29187.2	29872.5	30444.6
60°	14560.3	14823.1	16772.5	23565.3	27327.6	30594.3	31858.4	31608.9	32793.2	33475.1
62.5°	12803.9	13053.4	14826.5	19676.6	25411.6	29692.8	32816.5	33844.4	35787.1	36532.2
65°	11060.8	11273.7	12973.6	16533.0	22976.5	28791.3	33312.1	35777.1	38558.1	39329.9
67.5°	9118.1	9294.4	10901.1	13948.2	20015.9	27557.2	33558.3	37297.3	40969.9	41631.8
70°	6579.9	6716.3	8376.3	11030.9	16300.1	25434.8	33458.5	38375.1	42220.6	42749.6
72.5°	3110.3	3233.4	5182.8	7162.1	11513.2	21303.3	31439.3	37520.2	40949.9	40687.1
75°	1660.0	1766.4	2977.3	3928.7	6080.9	14603.6	25727.6	32320.8	34386.6	33109.2
77.5°	1124.4	1207.5	1842.9	2358.5	2777.7	6932.5	16536.3	22377.7	21529.5	19420.4
80°	891.5	978.0	1510.3	1596.7	1343.9	2504.9	6832.7	10358.9	7441.5	5951.2
82.5°	685.3	781.7	1270.7	1157.6	731.8	1027.9	1989.3	3276.7	1906.1	1450.4
85°	419.1	522.3	998.0	738.5	412.5	469.0	675.3	911.5	582.1	485.7
87.5°	212.9	299.4	505.6	269.5	186.3	109.8	179.6	179.6	153.0	133.1
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°
9061.5	0°	9061.5	9061.5	9061.5	9061.5	9061.5	9061.5	9061.5	9061.5	9061.5	9061.5
9015.0	2.5°	9094.8	9161.3	9274.4	9380.9	9464.0	9543.9	9623.7	9667.0	9680.3	9733.5
9064.9	5°	9201.3	9324.3	9543.9	9750.1	9879.9	9959.7	10016.3	10049.5	10056.2	10072.8
9201.3	7.5°	9397.5	9593.8	9899.8	10106.1	10202.5	10195.9	10172.6	10089.4	10056.2	10026.2
9400.8	10°	9673.6	9933.1	10309.0	10452.0	10392.2	10232.5	10026.2	9783.4	9670.3	9560.5
9673.6	12.5°	10016.3	10345.6	10714.8	10708.2	10412.1	10003.0	9523.9	9151.4	8915.2	8745.5
10009.6	15°	10432.1	10811.3	11094.1	10867.9	10219.2	9484.0	8782.1	8296.4	8083.5	7897.2
10348.9	17.5°	10861.2	11267.0	11396.8	10818.0	9733.5	8715.6	7920.5	7538.0	7328.4	7228.6
10714.8	20°	11280.3	11682.9	11576.4	10531.9	8995.0	7844.0	7135.5	6925.9	6882.6	6905.9
11070.8	22.5°	11722.8	12082.0	11613.0	9979.7	8053.6	6952.5	6563.3	6569.9	6666.4	6736.3
11443.3	25°	12175.2	12418.0	11516.5	9181.3	7042.3	6297.2	6200.7	6307.1	6496.8	6633.2
11862.5	27.5°	12611.0	12717.4	11307.0	8193.3	6174.1	5828.1	5844.8	6064.3	6350.4	6540.0
12371.5	30°	13103.3	12983.5	10904.4	7082.2	5572.0	5425.6	5565.3	5821.5	6107.6	6277.2
13013.5	32.5°	13658.8	13213.1	10265.7	6054.3	5146.2	5102.9	5332.5	5498.8	5625.2	5675.1
13865.1	35°	14350.8	13535.8	9447.4	5332.5	4763.6	4866.8	5086.3	5003.1	4953.2	4926.6
15009.4	37.5°	15248.9	13971.5	8489.4	4863.4	4454.3	4697.1	4786.9	4527.4	4331.2	4234.7
16396.6	40°	16330.1	14610.2	7567.9	4500.8	4258.0	4550.7	4394.4	4081.7	3832.2	3695.8
17956.7	42.5°	17530.9	15278.9	6792.8	4228.1	4148.2	4431.0	4105.0	3732.4	3329.9	3286.6
19816.3	45°	18791.7	15967.5	6263.9	4018.5	4095.0	4327.8	3938.6	3336.5	3050.5	3226.8
21682.5	47.5°	20052.5	16599.5	5944.6	3862.1	4068.4	4211.4	3792.3	3117.0	2914.1	3170.2
23681.7	50°	21456.3	17165.0	5801.5	3749.0	4038.4	4164.8	3572.7	3060.4	2771.0	2940.7
25750.9	52.5°	22850.1	17604.1	5695.1	3635.9	3995.2	4128.3	3466.3	2993.9	2598.0	2608.0
27833.3	55°	24240.6	17890.2	5578.6	3486.2	3898.7	4048.4	3456.3	2920.7	2468.3	2421.7
30035.5	57.5°	25724.3	18053.2	5435.6	3319.9	3732.4	3845.5	3446.3	2864.2	2428.4	2351.9
32287.5	60°	27234.5	18292.7	5249.3	3117.0	3509.5	3602.7	3423.0	2844.2	2405.1	2275.4
34409.9	62.5°	28588.4	18375.9	5026.4	2924.0	3223.4	3363.1	3373.1	2827.6	2341.9	2119.0
36173.0	65°	29476.6	18016.6	4637.2	2704.5	2914.1	3117.0	3276.7	2771.0	2228.8	2005.9
37044.5	67.5°	29440.0	16992.0	4028.5	2421.7	2614.7	2844.2	3136.9	2674.6	2092.4	1866.2
36385.9	70°	28069.5	14969.5	3256.7	2092.4	2285.3	2551.5	2957.3	2531.5	1929.4	1713.2
32354.1	72.5°	24074.3	11716.1	2365.2	1706.5	1902.8	2248.8	2724.4	2358.5	1763.1	1576.8
23911.3	75°	17198.3	7414.9	1603.4	1310.7	1480.3	1906.1	2435.0	2155.6	1610.1	1583.4
11975.6	77.5°	8785.4	3542.8	1061.2	958.0	1031.2	1503.6	2045.8	1926.1	1633.3	1307.3
3406.4	80°	2857.5	1307.3	668.6	652.0	685.3	1001.3	1583.4	1580.1	1237.5	888.2
825.0	82.5°	911.5	562.2	435.8	419.1	402.5	628.7	1104.4	1250.8	835.0	562.2
296.1	85°	362.6	336.0	256.1	236.2	169.7	296.1	578.8	831.6	622.1	405.8
76.5	87.5°	133.1	133.1	69.9	49.9	36.6	99.8	156.3	249.5	355.9	209.6
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>
9061.5
9763.4
10099.4
10032.9
9527.3
8705.6
7877.3
7258.5
6895.9
6752.9
6669.7
6586.6
6317.1
5701.7
4953.2
4258.0
3705.8
3329.9
3319.9
3290.0
3067.1
2677.9
2455.0
2361.9
2285.3
2119.0
2005.9
1876.2
1733.1
1566.8
1493.6
1164.3
785.1
558.9
415.8
206.2
0.0

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