

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: P957301

Luminaire Tested: **GALN-SB9C-940-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957301
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-940-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 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: 50745 lumens
Efficiency: N/A
Efficacy: 112.8 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

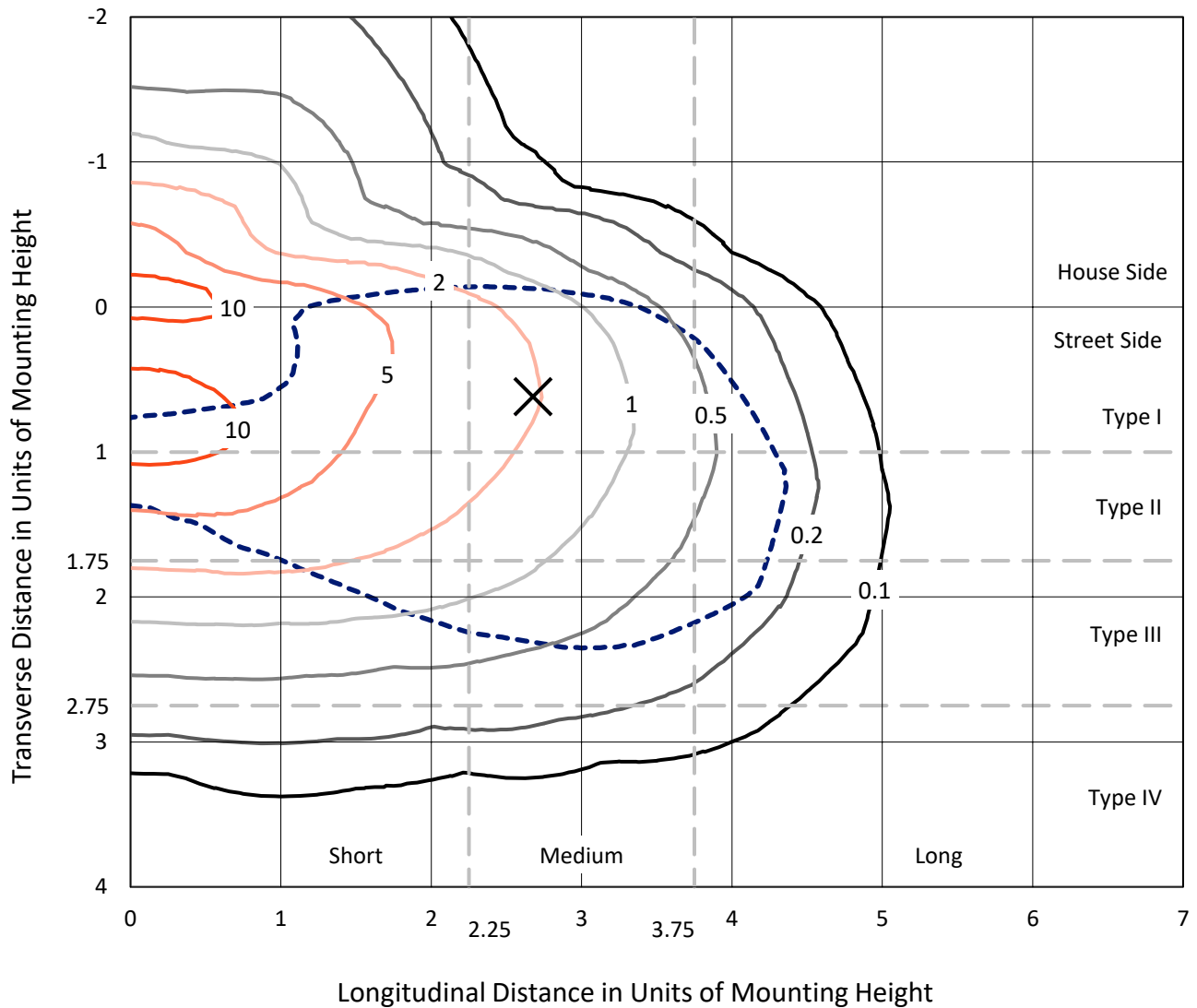
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

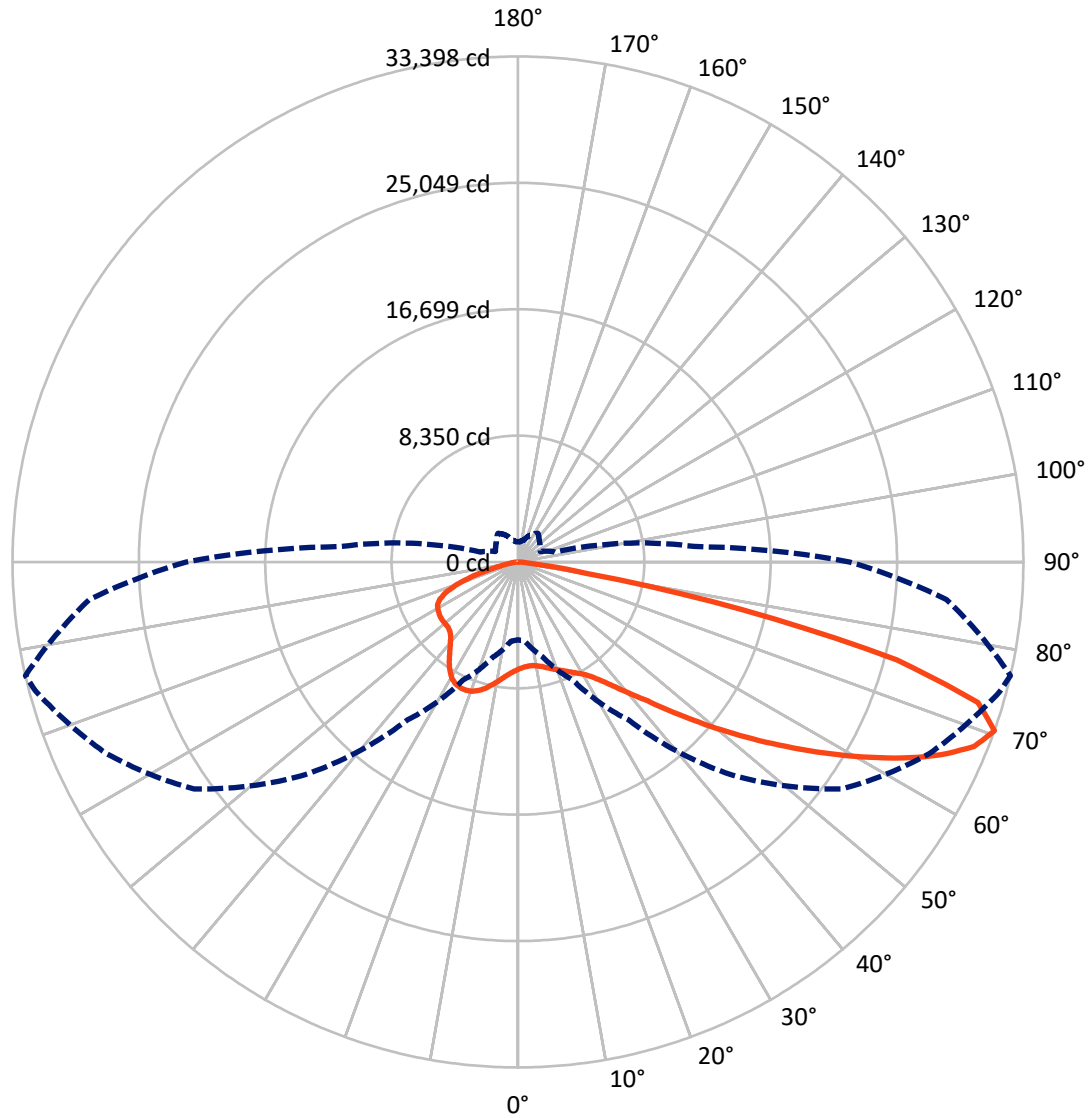
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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	11112.4	0.0	11112.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	39632.6	0.0	39632.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	50745.0	0.0	50745.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	675.2	1.3
10°-20°	1948.6	3.8
20°-30°	3332.5	6.6
30°-40°	5358.9	10.6
40°-50°	8366.7	16.5
50°-60°	11175.9	22.0
60°-70°	11911.8	23.5
70°-80°	7332.8	14.5
80°-90°	642.6	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°	50745.0	100.0
0°-180°	50745.0	100.0

Coefficient of Utilization



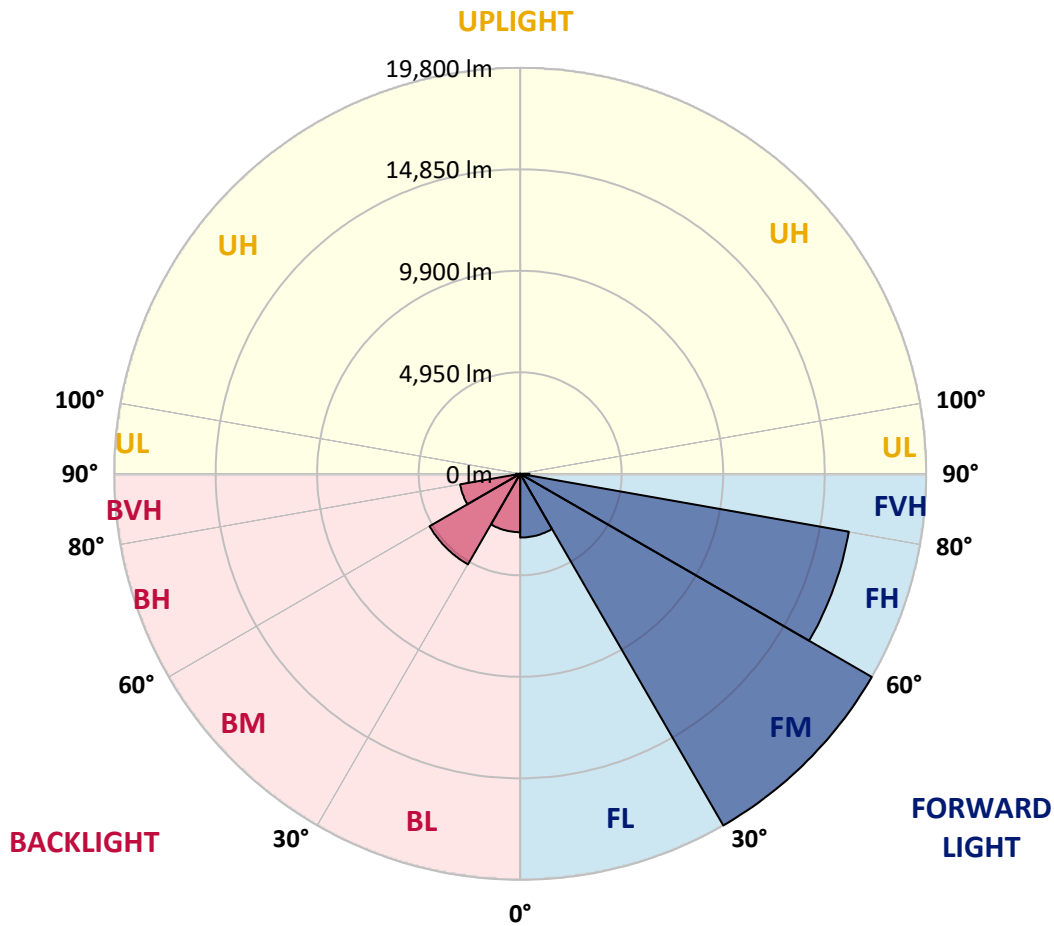
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3108.9	6.1			
FM (30°-60°)	19799.6	39.0			
FH (60°-80°)	16274.8	32.1			G5
FVH (80°-90°)	449.3	0.9			G3/500
BL (0°-30°)	2847.3	5.6	B4/5000		
BM (30°-60°)	5101.9	10.1	B4/8500		
BH (60°-80°)	2969.9	5.9	B4/5000		G4/5000
BVH (80°-90°)	193.2	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°	7079.4	7079.4	7079.4	7079.4	7079.4	7079.4	7079.4	7079.4	7079.4	7079.4
2.5°	6525.8	6523.2	6557.0	6567.4	6629.8	6674.0	6757.1	6845.5	6959.8	6972.8
5°	6149.0	6149.0	6188.0	6229.6	6310.1	6398.5	6525.8	6679.2	6876.7	6907.9
7.5°	5829.3	5850.1	5883.9	5964.5	6058.0	6185.4	6380.3	6598.6	6858.5	6907.9
10°	5572.0	5595.4	5637.0	5702.0	5842.3	6019.0	6273.7	6554.4	6902.7	6980.6
12.5°	5491.5	5514.9	5538.2	5587.6	5717.6	5925.5	6229.6	6575.2	7009.2	7087.2
15°	5678.6	5707.2	5689.0	5676.0	5743.6	5933.3	6250.3	6650.6	7141.8	7253.5
17.5°	6110.0	6120.4	6078.8	5956.7	5946.3	6047.6	6349.1	6754.5	7308.1	7430.2
20°	6806.5	6788.3	6702.6	6460.9	6323.1	6302.3	6518.0	6910.5	7479.6	7609.6
22.5°	7752.5	7731.7	7560.2	7178.1	6871.5	6668.8	6762.3	7113.2	7671.9	7817.5
25°	8932.4	8903.8	8651.7	8131.9	7656.3	7154.8	7095.0	7380.9	7908.4	8043.6
27.5°	10309.8	10286.4	10013.5	9327.4	8641.3	7820.1	7508.2	7695.3	8155.3	8308.7
30°	11791.2	11858.8	11375.4	10637.3	9769.2	8688.1	8064.4	8082.6	8475.0	8612.7
32.5°	13532.4	13649.4	13067.2	12131.6	10946.5	9631.5	8766.1	8623.1	8940.2	9054.6
35°	15258.1	15390.7	14907.3	13872.9	12508.5	10743.8	9499.0	9244.3	9558.7	9683.5
37.5°	16749.9	16926.6	16677.1	15777.9	14179.6	12084.9	10455.4	9974.6	10320.2	10476.1
40°	17927.2	18197.5	18179.3	17617.9	16149.5	13711.8	11669.0	10876.4	11266.2	11435.1
42.5°	18883.6	19117.5	19320.2	19291.6	18205.3	15559.6	13095.8	12048.5	12344.8	12539.7
45°	19543.7	19793.2	20229.8	20700.2	20183.0	17537.3	14730.5	13438.9	13709.2	14002.8
47.5°	20133.6	20416.9	20983.5	21729.4	21861.9	19522.9	16521.2	15058.0	15304.9	15609.0
50°	20185.6	20429.9	21308.3	22366.1	23054.8	21430.5	18444.4	16874.6	17105.9	17430.8
52.5°	18930.4	19315.0	20848.3	22347.9	23603.2	23026.2	20354.5	18764.0	19023.9	19413.7
55°	14694.2	15258.1	19499.5	21651.4	23408.2	24058.0	22171.2	20773.0	21105.6	21513.7
57.5°	12656.6	12903.5	15479.0	20383.1	22519.4	24325.7	23704.5	22802.7	23338.1	23785.1
60°	11375.4	11580.7	13103.6	18410.6	21349.9	23902.0	24889.6	24694.7	25619.9	26152.7
62.5°	10003.1	10198.1	11583.3	15372.5	19853.0	23197.7	25638.1	26441.2	27958.9	28541.1
65°	8641.3	8807.7	10135.7	12916.5	17950.6	22493.4	26025.3	27951.1	30123.8	30726.7
67.5°	7123.6	7261.3	8516.6	10897.2	15637.6	21529.2	26217.7	29138.8	32008.0	32525.2
70°	5140.6	5247.2	6544.0	8617.9	12734.6	19871.2	26139.7	29980.9	32985.2	33398.4
72.5°	2430.0	2526.1	4049.1	5595.4	8994.8	16643.3	24562.2	29312.9	31992.4	31787.1
75°	1296.8	1380.0	2326.0	3069.3	4750.8	11409.1	20099.9	25250.9	26864.8	25866.8
77.5°	878.4	943.4	1439.8	1842.6	2170.1	5416.1	12919.1	17482.8	16820.0	15172.3
80°	696.5	764.1	1179.9	1247.5	1050.0	1957.0	5338.1	8093.0	5813.7	4649.4
82.5°	535.4	610.7	992.8	904.4	571.8	803.1	1554.1	2559.9	1489.2	1133.1
85°	327.5	408.0	779.7	577.0	322.3	366.4	527.6	712.1	454.8	379.4
87.5°	166.3	233.9	395.0	210.5	145.5	85.8	140.3	140.3	119.5	104.0
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°
7079.4	0°	7079.4	7079.4	7079.4	7079.4	7079.4	7079.4	7079.4	7079.4	7079.4	7079.4
7043.0	2.5°	7105.4	7157.4	7245.7	7328.9	7393.9	7456.2	7518.6	7552.4	7562.8	7604.4
7082.0	5°	7188.5	7284.7	7456.2	7617.4	7718.7	7781.1	7825.3	7851.3	7856.5	7869.5
7188.5	7.5°	7341.9	7495.2	7734.3	7895.4	7970.8	7965.6	7947.4	7882.4	7856.5	7833.1
7344.5	10°	7557.6	7760.3	8054.0	8165.7	8118.9	7994.2	7833.1	7643.4	7555.0	7469.2
7557.6	12.5°	7825.3	8082.6	8371.0	8365.8	8134.5	7814.9	7440.6	7149.6	6965.0	6832.5
7820.1	15°	8150.1	8446.4	8667.3	8490.6	7983.8	7409.5	6861.1	6481.6	6315.3	6169.8
8085.2	17.5°	8485.4	8802.5	8903.8	8451.6	7604.4	6809.1	6188.0	5889.1	5725.4	5647.4
8371.0	20°	8812.9	9127.3	9044.2	8228.1	7027.4	6128.2	5574.6	5410.9	5377.1	5395.3
8649.1	22.5°	9158.5	9439.2	9072.7	7796.7	6291.9	5431.7	5127.6	5132.8	5208.2	5262.8
8940.2	25°	9512.0	9701.7	8997.4	7173.0	5501.9	4919.7	4844.3	4927.5	5075.6	5182.2
9267.7	27.5°	9852.4	9935.6	8833.6	6401.1	4823.5	4553.3	4566.3	4737.8	4961.3	5109.4
9665.3	30°	10237.0	10143.5	8519.2	5533.0	4353.1	4238.8	4348.0	4548.1	4771.6	4904.1
10166.9	32.5°	10671.1	10322.8	8020.2	4730.0	4020.5	3986.7	4166.0	4296.0	4394.7	4433.7
10832.2	35°	11211.6	10574.9	7380.9	4166.0	3721.6	3802.2	3973.7	3908.7	3869.8	3849.0
11726.2	37.5°	11913.3	10915.4	6632.4	3799.6	3479.9	3669.6	3739.8	3537.1	3383.8	3308.4
12810.0	40°	12758.0	11414.3	5912.5	3516.3	3326.6	3555.3	3433.1	3188.8	2993.9	2887.4
14028.8	42.5°	13696.2	11936.7	5306.9	3303.2	3240.8	3461.7	3207.0	2916.0	2601.5	2567.7
15481.6	45°	14681.2	12474.7	4893.7	3139.5	3199.2	3381.2	3077.1	2606.7	2383.2	2520.9
16939.6	47.5°	15666.1	12968.5	4644.2	3017.3	3178.4	3290.2	2962.7	2435.2	2276.6	2476.7
18501.5	50°	16762.9	13410.3	4532.5	2929.0	3155.1	3253.8	2791.2	2391.0	2164.9	2297.4
20118.0	52.5°	17851.8	13753.4	4449.3	2840.6	3121.3	3225.2	2708.0	2339.0	2029.7	2037.5
21745.0	55°	18938.1	13976.9	4358.3	2723.6	3045.9	3162.9	2700.3	2281.8	1928.4	1892.0
23465.4	57.5°	20097.3	14104.2	4246.6	2593.7	2916.0	3004.3	2692.5	2237.6	1897.2	1837.4
25224.9	60°	21277.2	14291.3	4101.1	2435.2	2741.8	2814.6	2674.3	2222.1	1879.0	1777.6
26883.0	62.5°	22334.9	14356.3	3926.9	2284.4	2518.3	2627.5	2635.3	2209.1	1829.6	1655.5
28260.4	65°	23028.8	14075.6	3622.9	2112.9	2276.6	2435.2	2559.9	2164.9	1741.3	1567.1
28941.3	67.5°	23000.2	13275.2	3147.3	1892.0	2042.7	2222.1	2450.8	2089.5	1634.7	1458.0
28426.7	70°	21929.5	11695.0	2544.3	1634.7	1785.4	1993.4	2310.4	1977.8	1507.4	1338.4
25276.9	72.5°	18808.2	9153.3	1847.8	1333.2	1486.6	1756.9	2128.5	1842.6	1377.4	1231.9
18680.9	75°	13436.3	5792.9	1252.7	1024.0	1156.5	1489.2	1902.4	1684.1	1257.9	1237.1
9356.0	77.5°	6863.7	2767.8	829.0	748.5	805.7	1174.7	1598.3	1504.8	1276.1	1021.4
2661.3	80°	2232.5	1021.4	522.4	509.4	535.4	782.3	1237.1	1234.5	966.8	693.9
644.5	82.5°	712.1	439.2	340.5	327.5	314.5	491.2	862.8	977.2	652.3	439.2
231.3	85°	283.3	262.5	200.1	184.5	132.5	231.3	452.2	649.7	486.0	317.1
59.8	87.5°	104.0	104.0	54.6	39.0	28.6	78.0	122.1	194.9	278.1	163.7
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>
7079.4
7627.8
7890.2
7838.3
7443.2
6801.3
6154.2
5670.8
5387.5
5275.8
5210.8
5145.8
4935.3
4454.5
3869.8
3326.6
2895.2
2601.5
2593.7
2570.3
2396.2
2092.1
1918.0
1845.2
1785.4
1655.5
1567.1
1465.8
1354.0
1224.1
1166.9
909.6
613.3
436.6
324.9
161.1
0.0

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