

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: P957616

Luminaire Tested: **GALN-SB9D-930-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957616
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-SB9D-930-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66193 lumens
Efficiency: N/A
Efficacy: 100.6 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

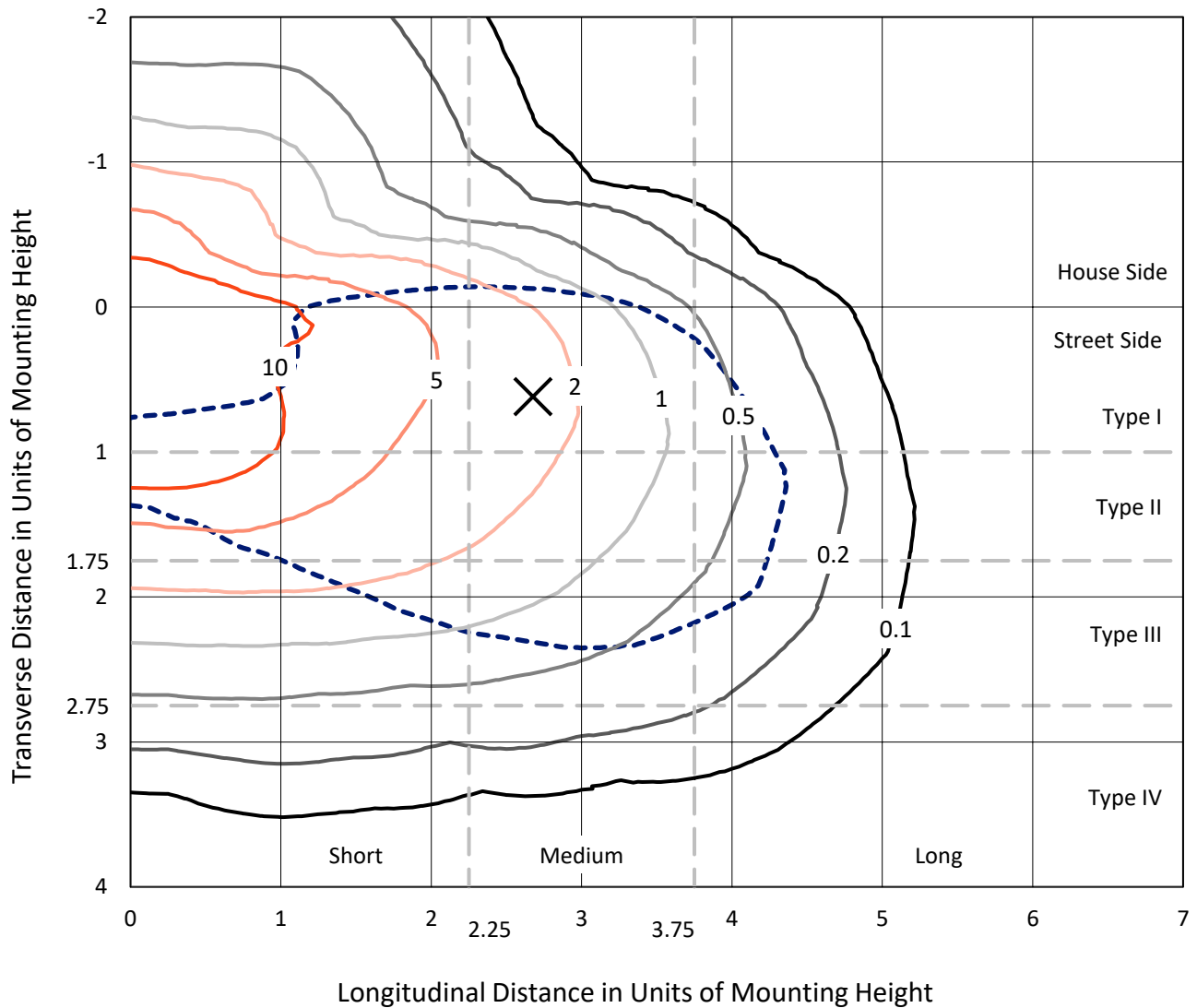
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

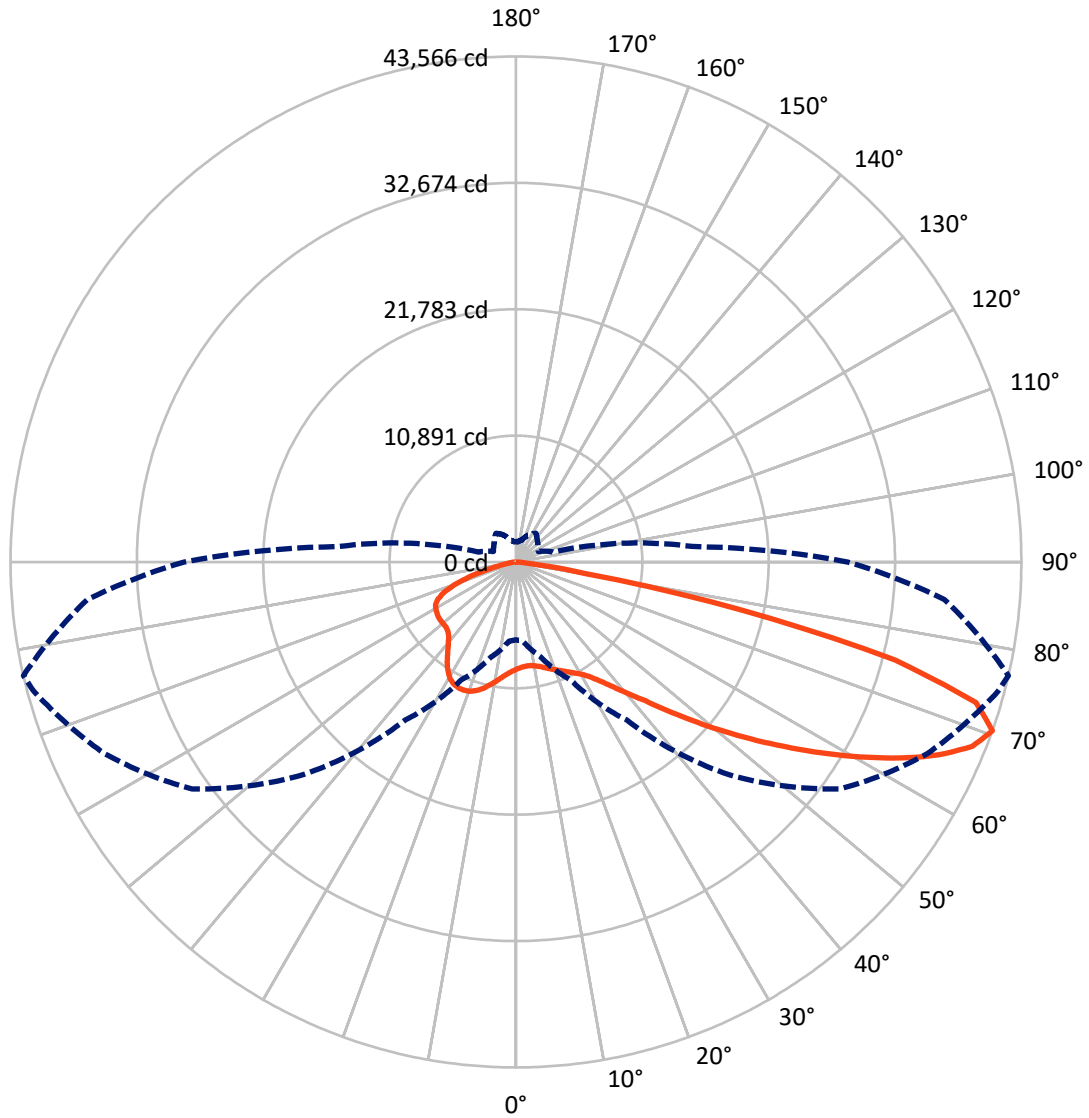
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 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	14495.2	0.0	14495.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	51697.8	0.0	51697.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	66193.0	0.0	66193.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	880.7	1.3
10°-20°	2541.9	3.8
20°-30°	4346.9	6.6
30°-40°	6990.3	10.6
40°-50°	10913.7	16.5
50°-60°	14578.1	22.0
60°-70°	15538.0	23.5
70°-80°	9565.1	14.5
80°-90°	838.2	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°	66193.0	100.0
0°-180°	66193.0	100.0



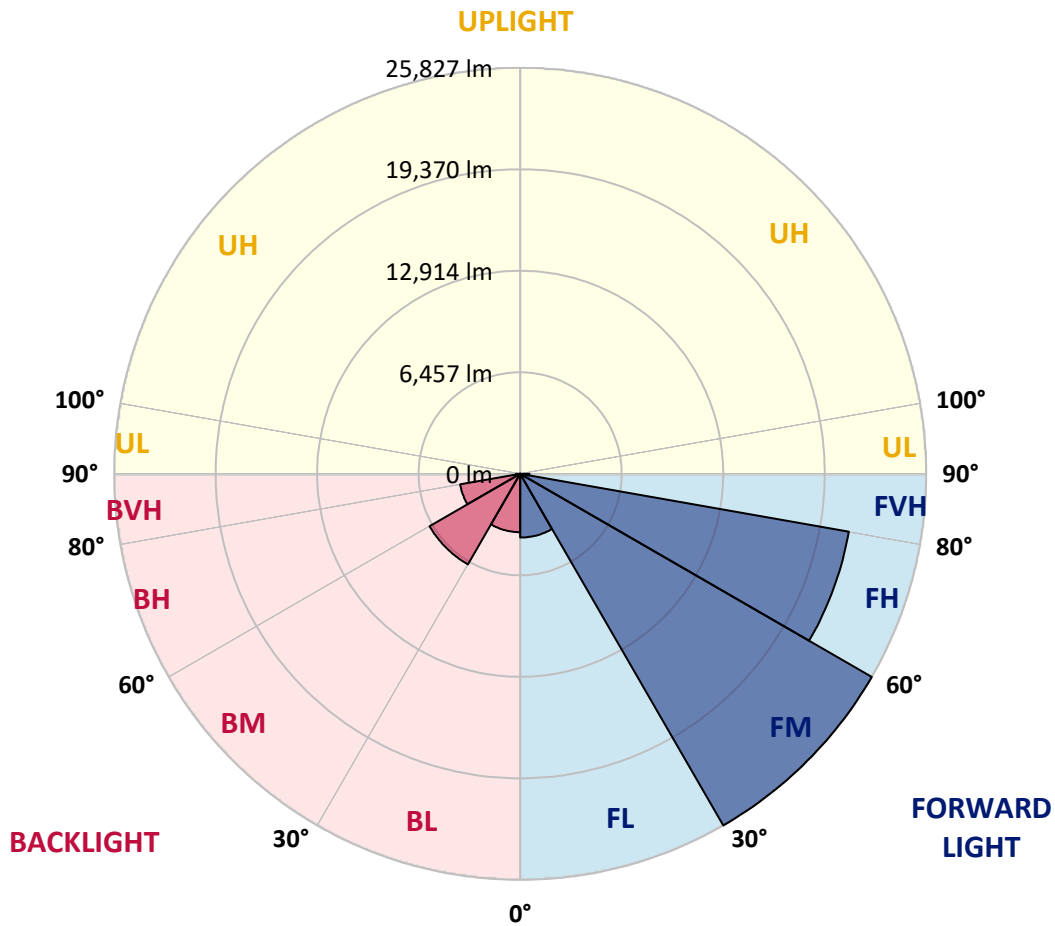
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4055.4	6.1			
FM (30°-60°)	25827.1	39.0			
FH (60°-80°)	21229.2	32.1			G5
FVH (80°-90°)	586.1	0.9			G4/750
BL (0°-30°)	3714.1	5.6	B4/5000		
BM (30°-60°)	6655.1	10.1	B4/8500		
BH (60°-80°)	3873.9	5.9	B4/5000		G4/5000
BVH (80°-90°)	252.1	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°	9234.5	9234.5	9234.5	9234.5	9234.5	9234.5	9234.5	9234.5	9234.5	9234.5
2.5°	8512.4	8509.1	8553.1	8566.7	8648.0	8705.7	8814.2	8929.4	9078.6	9095.5
5°	8020.9	8020.9	8071.7	8126.0	8231.1	8346.3	8512.4	8712.5	8970.1	9010.8
7.5°	7603.9	7631.0	7675.1	7780.2	7902.2	8068.3	8322.6	8607.4	8946.4	9010.8
10°	7268.3	7298.8	7353.0	7437.8	7620.9	7851.4	8183.6	8549.7	9004.0	9105.7
12.5°	7163.2	7193.7	7224.2	7288.6	7458.1	7729.3	8126.0	8576.9	9143.0	9244.7
15°	7407.3	7444.6	7420.8	7403.9	7492.0	7739.5	8153.1	8675.2	9315.9	9461.7
17.5°	7970.0	7983.6	7929.4	7770.0	7756.5	7888.7	8281.9	8810.8	9532.9	9692.2
20°	8878.6	8854.8	8743.0	8427.7	8248.0	8220.9	8502.3	9014.2	9756.6	9926.1
22.5°	10112.6	10085.4	9861.7	9363.3	8963.3	8698.9	8820.9	9278.6	10007.5	10197.3
25°	11651.6	11614.4	11285.5	10607.5	9987.1	9332.8	9254.9	9627.8	10316.0	10492.2
27.5°	13448.4	13417.9	13061.9	12166.9	11272.0	10200.7	9793.9	10038.0	10638.0	10838.0
30°	15380.7	15468.9	14838.3	13875.5	12743.2	11333.0	10519.4	10543.1	11055.0	11234.7
32.5°	17652.0	17804.6	17045.2	15824.8	14278.9	12563.6	11434.7	11248.2	11661.8	11811.0
35°	19903.1	20075.9	19445.4	18096.1	16316.4	14014.5	12390.7	12058.4	12468.6	12631.4
37.5°	21848.9	22079.5	21754.0	20581.1	18496.2	15763.8	13638.2	13011.1	13461.9	13665.3
40°	23384.6	23737.2	23713.5	22981.2	21065.8	17886.0	15221.4	14187.4	14695.9	14916.3
42.5°	24632.2	24937.3	25201.7	25164.4	23747.4	20296.3	17082.5	15716.3	16102.8	16357.0
45°	25493.3	25818.7	26388.2	27001.8	26327.2	22876.1	19214.9	17530.0	17882.6	18265.7
47.5°	26262.8	26632.3	27371.4	28344.3	28517.2	25466.1	21550.6	19642.0	19964.1	20360.7
50°	26330.6	26649.3	27795.1	29174.9	30073.2	27954.4	24059.3	22011.7	22313.4	22737.1
52.5°	24693.2	25194.9	27195.1	29151.1	30788.5	30035.9	26551.0	24476.2	24815.2	25323.8
55°	19167.4	19903.1	25435.6	28242.6	30534.3	31381.8	28920.6	27096.8	27530.7	28062.9
57.5°	16509.6	16831.7	20191.2	26588.3	29374.9	31731.0	30920.8	29744.4	30442.8	31025.8
60°	14838.3	15106.1	17092.7	24015.2	27849.4	31178.4	32466.6	32212.4	33419.2	34114.2
62.5°	13048.3	13302.6	15109.5	20052.2	25896.7	30259.7	33443.0	34490.5	36470.3	37229.7
65°	11272.0	11488.9	13221.2	16848.6	23415.2	29341.0	33948.1	36460.1	39294.2	40080.7
67.5°	9292.2	9471.8	11109.2	14214.5	20398.0	28083.3	34198.9	38009.4	41752.0	42426.6
70°	6705.5	6844.5	8536.2	11241.4	16611.3	25920.4	34097.2	39107.7	43026.7	43565.7
72.5°	3169.7	3295.1	5281.7	7298.8	11733.0	21710.0	32039.5	38236.5	41731.7	41463.8
75°	1691.6	1800.1	3034.1	4003.7	6197.0	14882.4	26218.7	32937.8	35043.1	33741.3
77.5°	1145.8	1230.6	1878.1	2403.6	2830.7	7064.9	16852.0	22804.9	21940.5	19791.2
80°	908.5	996.7	1539.1	1627.2	1369.6	2552.7	6963.2	10556.7	7583.6	6064.8
82.5°	698.4	796.7	1295.0	1179.7	745.8	1047.5	2027.3	3339.2	1942.5	1478.1
85°	427.1	532.2	1017.0	752.6	420.4	478.0	688.2	928.9	593.3	494.9
87.5°	217.0	305.1	515.3	274.6	189.8	111.9	183.1	183.1	155.9	135.6
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°
9234.5	0°	9234.5	9234.5	9234.5	9234.5	9234.5	9234.5	9234.5	9234.5	9234.5	9234.5
9187.1	2.5°	9268.4	9336.2	9451.5	9560.0	9644.7	9726.1	9807.4	9851.5	9865.1	9919.3
9237.9	5°	9376.9	9502.3	9726.1	9936.3	10068.5	10149.8	10207.5	10241.4	10248.2	10265.1
9376.9	7.5°	9576.9	9776.9	10088.8	10299.0	10397.3	10390.5	10366.8	10282.1	10248.2	10217.6
9580.3	10°	9858.3	10122.7	10505.8	10651.6	10590.6	10427.8	10217.6	9970.2	9854.9	9743.0
9858.3	12.5°	10207.5	10543.1	10919.4	10912.6	10610.9	10193.9	9705.7	9326.1	9085.4	8912.5
10200.7	15°	10631.2	11017.7	11305.9	11075.3	10414.3	9665.1	8949.8	8454.8	8237.8	8048.0
10546.5	17.5°	11068.6	11482.1	11614.4	11024.5	9919.3	8882.0	8071.7	7681.9	7468.3	7366.6
10919.4	20°	11495.7	11905.9	11797.4	10732.9	9166.7	7993.8	7271.7	7058.1	7014.0	7037.8
11282.1	22.5°	11946.6	12312.7	11834.7	10170.2	8207.3	7085.2	6688.6	6695.4	6793.7	6864.9
11661.8	25°	12407.6	12655.1	11736.4	9356.6	7176.8	6417.4	6319.1	6427.6	6620.8	6759.8
12089.0	27.5°	12851.7	12960.2	11522.8	8349.7	6292.0	5939.4	5956.3	6180.1	6471.6	6664.9
12607.6	30°	13353.5	13231.4	11112.6	7217.4	5678.4	5529.2	5671.6	5932.6	6224.2	6397.0
13261.9	32.5°	13919.6	13465.3	10461.7	6169.9	5244.4	5200.4	5434.3	5603.8	5732.6	5783.4
14129.8	35°	14624.7	13794.2	9627.8	5434.3	4854.6	4959.7	5183.4	5098.7	5047.8	5020.7
15296.0	37.5°	15540.0	14238.3	8651.4	4956.3	4539.3	4786.8	4878.3	4613.9	4413.9	4315.5
16709.6	40°	16641.8	14889.1	7712.4	4586.8	4339.3	4637.6	4478.3	4159.6	3905.4	3766.4
18299.6	42.5°	17865.6	15570.6	6922.5	4308.8	4227.4	4515.6	4183.3	3803.6	3393.5	3349.4
20194.6	45°	19150.5	16272.3	6383.5	4095.2	4173.2	4410.5	4013.8	3400.2	3108.7	3288.4
22096.4	47.5°	20435.3	16916.4	6058.0	3935.9	4146.0	4291.8	3864.7	3176.5	2969.7	3230.7
24133.8	50°	21865.9	17492.7	5912.3	3820.6	4115.5	4244.4	3640.9	3118.9	2823.9	2996.8
26242.5	52.5°	23286.3	17940.2	5803.8	3705.3	4071.5	4207.1	3532.4	3051.1	2647.6	2657.8
28364.6	55°	24703.4	18231.8	5685.1	3552.8	3973.2	4125.7	3522.3	2976.5	2515.4	2468.0
30608.9	57.5°	26215.3	18397.9	5539.4	3383.3	3803.6	3918.9	3512.1	2918.8	2474.7	2396.8
32903.9	60°	27754.4	18641.9	5349.5	3176.5	3576.5	3671.4	3488.4	2898.5	2451.0	2318.8
35066.8	62.5°	29134.2	18726.7	5122.4	2979.9	3285.0	3427.4	3437.5	2881.6	2386.6	2159.5
36863.5	65°	30039.3	18360.6	4725.7	2756.1	2969.7	3176.5	3339.2	2823.9	2271.3	2044.2
37751.7	67.5°	30002.0	17316.4	4105.4	2468.0	2664.6	2898.5	3196.8	2725.6	2132.3	1901.8
37080.5	70°	28605.3	15255.3	3318.9	2132.3	2329.0	2600.2	3013.8	2579.8	1966.2	1745.9
32971.7	72.5°	24533.9	11939.8	2410.3	1739.1	1939.1	2291.7	2776.5	2403.6	1796.7	1606.9
24367.8	75°	17526.6	7556.4	1634.0	1335.7	1508.6	1942.5	2481.5	2196.8	1640.8	1613.7
12204.2	77.5°	8953.2	3610.4	1081.4	976.3	1050.9	1532.3	2084.9	1962.8	1664.5	1332.3
3471.4	80°	2912.1	1332.3	681.4	664.5	698.4	1020.4	1613.7	1610.3	1261.1	905.1
840.7	82.5°	928.9	572.9	444.1	427.1	410.2	640.7	1125.5	1274.7	850.9	572.9
301.7	85°	369.5	342.4	261.0	240.7	172.9	301.7	589.9	847.5	633.9	413.6
78.0	87.5°	135.6	135.6	71.2	50.9	37.3	101.7	159.3	254.3	362.7	213.6
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>
9234.5
9949.8
10292.2
10224.4
9709.1
8871.8
8027.7
7397.1
7027.6
6881.8
6797.1
6712.3
6437.7
5810.6
5047.8
4339.3
3776.5
3393.5
3383.3
3352.8
3125.6
2729.0
2501.9
2406.9
2329.0
2159.5
2044.2
1912.0
1766.2
1596.7
1522.1
1186.5
800.1
569.5
423.8
210.2
0.0

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