

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: P951885

Luminaire Tested: **GALN-SB5D-927-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-927-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31228 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

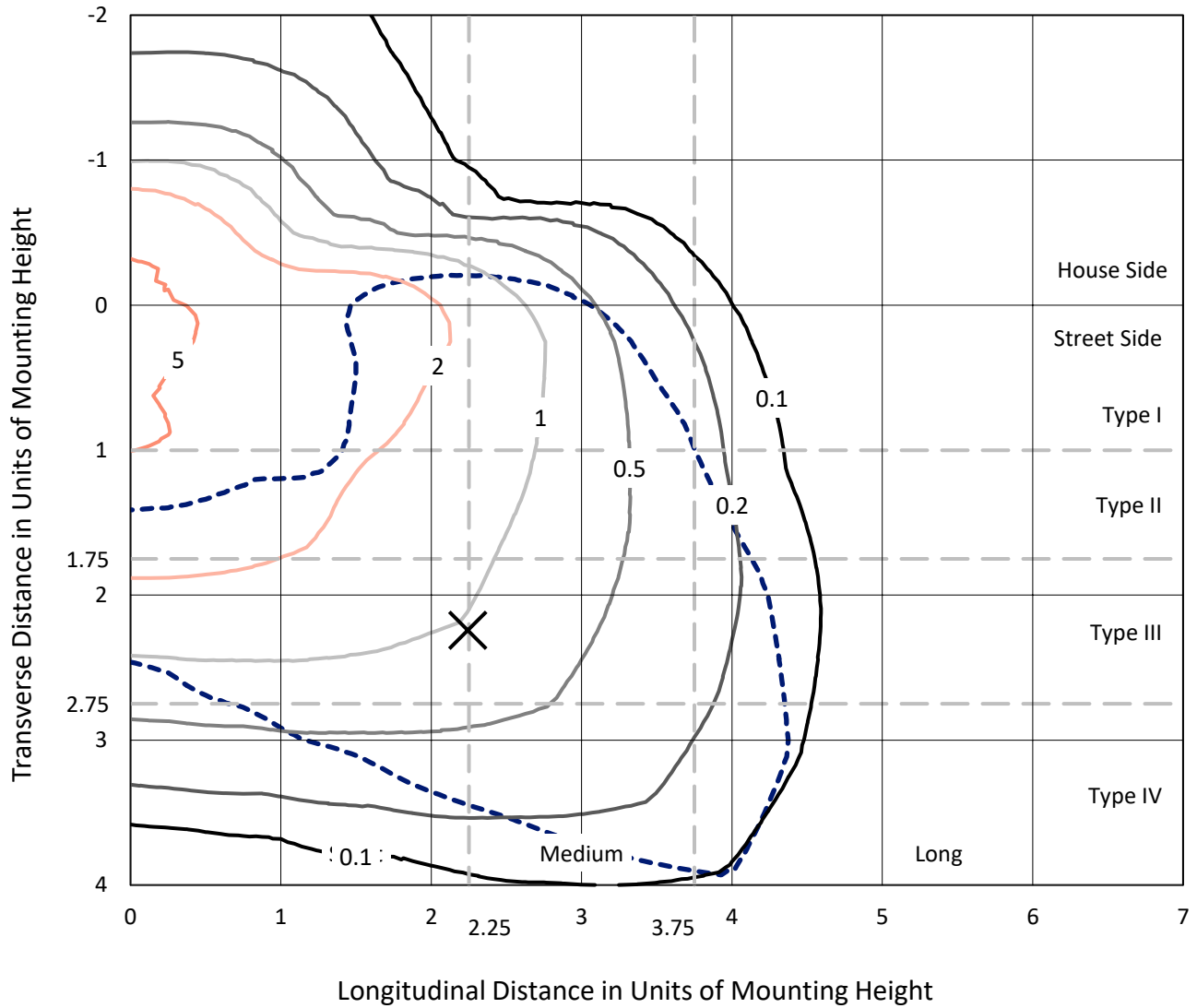
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

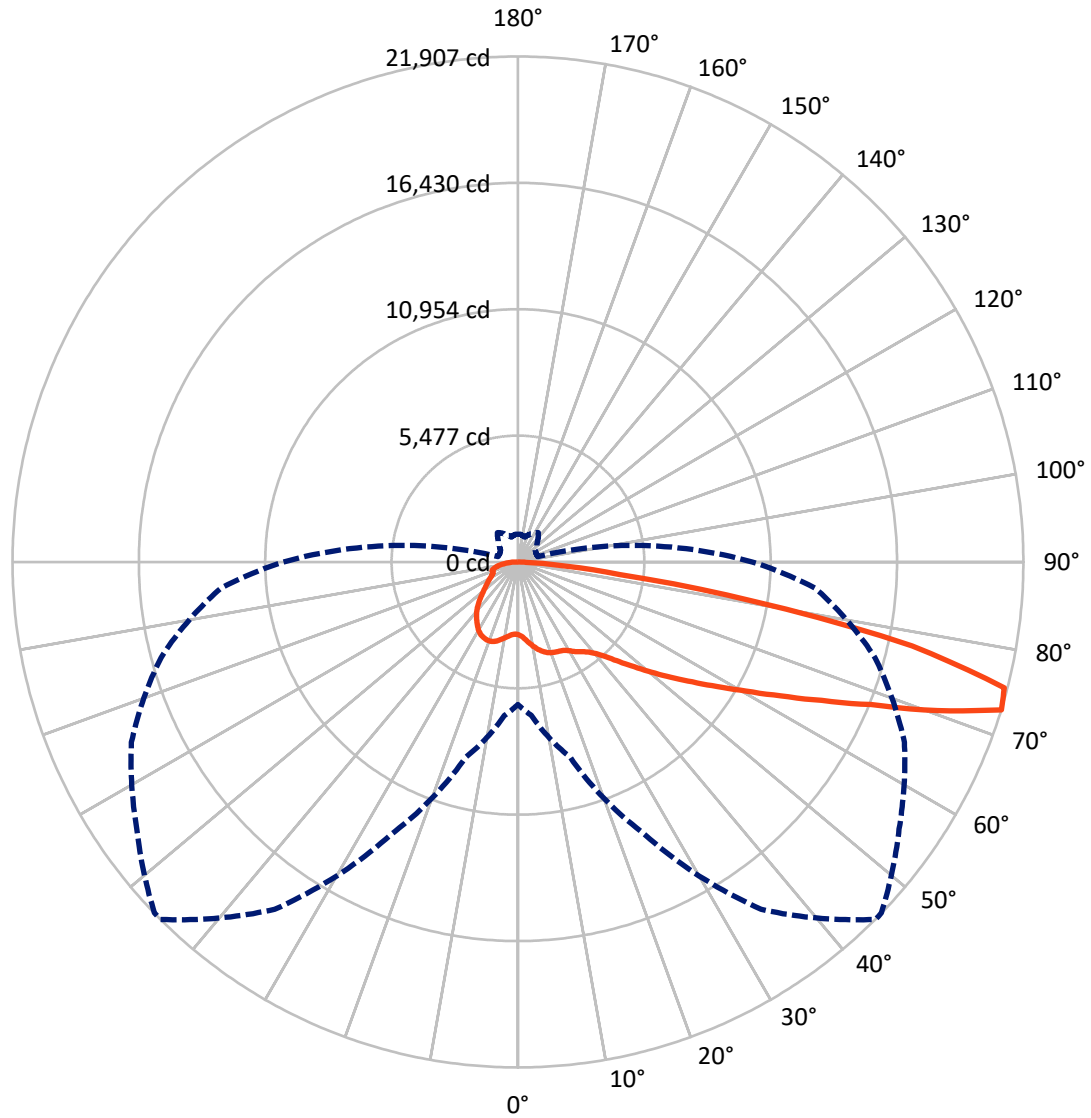
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7059.6	0.0	7059.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	24168.4	0.0	24168.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	31228.0	0.0	31228.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.6	1.0
10°-20°	1069.0	3.4
20°-30°	1859.7	6.0
30°-40°	2665.9	8.5
40°-50°	3753.8	12.0
50°-60°	5749.7	18.4
60°-70°	8329.3	26.7
70°-80°	6651.5	21.3
80°-90°	828.4	2.7
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°	31228.0	100.0
0°-180°	31228.0	100.0



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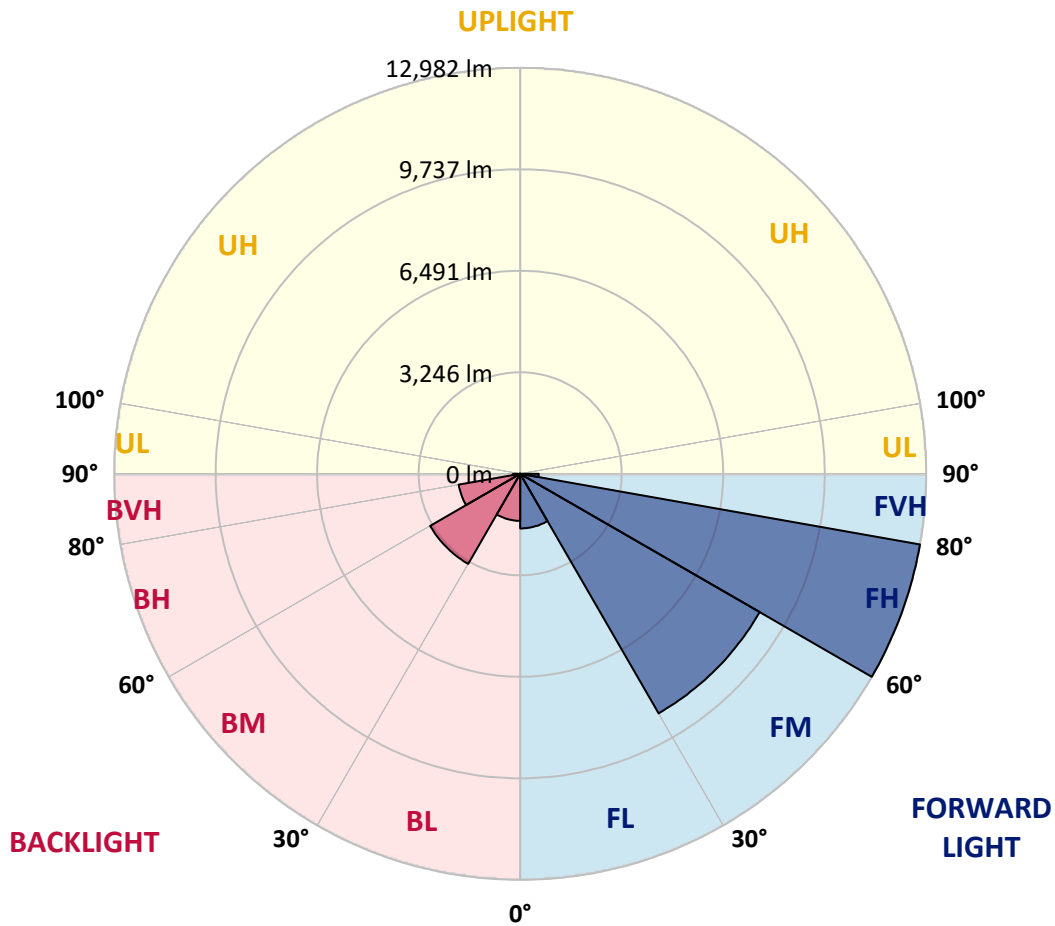
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1746.3	5.6			
FM (30°-60°)	8845.4	28.3			
FH (60°-80°)	12982.4	41.6			G5
FVH (80°-90°)	594.3	1.9			G4/750
BL (0°-30°)	1503.0	4.8	B3/2500		
BM (30°-60°)	3324.1	10.6	B3/5000		
BH (60°-80°)	1998.4	6.4	B3/2500		G3/2500
BVH (80°-90°)	234.1	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3150.3	3150.3	3150.3	3150.3	3150.3	3150.3	3150.3	3150.3	3150.3	3150.3
2.5°	3273.7	3295.1	3275.3	3257.2	3249.0	3227.6	3226.0	3212.8	3204.6	3181.6
5°	3502.3	3530.3	3497.4	3461.2	3428.3	3375.7	3369.1	3331.3	3288.5	3239.1
7.5°	3760.6	3785.3	3747.5	3693.2	3635.6	3548.4	3546.8	3477.7	3410.2	3326.3
10°	3986.0	4018.9	3967.9	3893.9	3821.5	3722.8	3711.3	3632.3	3546.8	3438.2
12.5°	4185.0	4208.1	4158.7	4068.2	3984.3	3885.6	3870.8	3783.6	3688.2	3564.9
15°	4343.0	4372.6	4306.8	4209.7	4120.9	4023.8	4010.7	3931.7	3836.3	3706.3
17.5°	4446.6	4471.3	4403.8	4295.3	4209.7	4129.1	4119.2	4053.4	3969.5	3837.9
20°	4486.1	4512.4	4441.7	4331.5	4252.5	4190.0	4185.0	4137.3	4079.8	3959.7
22.5°	4525.6	4550.2	4458.1	4343.0	4273.9	4234.4	4232.7	4201.5	4178.5	4079.8
25°	4685.1	4691.7	4568.3	4402.2	4303.5	4268.9	4267.3	4265.7	4275.5	4198.2
27.5°	4823.3	4821.7	4716.4	4560.1	4407.1	4334.7	4333.1	4349.5	4380.8	4316.6
30°	5025.7	5007.6	4882.5	4719.7	4579.9	4468.0	4458.1	4443.3	4468.0	4417.0
32.5°	5455.0	5397.5	5195.1	4905.6	4723.0	4637.4	4624.3	4532.2	4542.0	4510.8
35°	6070.3	5994.6	5724.8	5257.6	4900.6	4778.9	4772.3	4655.5	4635.8	4607.8
37.5°	6802.3	6708.6	6394.4	5767.6	5206.6	4943.4	4933.5	4828.3	4747.7	4718.0
40°	7537.7	7419.2	7159.3	6389.4	5657.4	5218.1	5186.9	5027.3	4935.2	4885.8
42.5°	8251.6	8152.9	7930.9	7086.9	6213.4	5619.5	5550.4	5277.4	5208.3	5162.2
45°	8883.3	8794.5	8631.7	7832.1	6864.9	6165.7	6098.3	5652.4	5631.1	5631.1
47.5°	9396.6	9376.9	9204.1	8592.2	7633.1	6787.5	6670.7	6173.9	6231.5	6320.3
50°	9965.8	9911.5	9727.3	9340.7	8536.2	7499.8	7404.4	6813.9	7029.4	7272.8
52.5°	10488.9	10518.5	10312.9	10120.4	9556.2	8294.4	8126.6	7568.9	8034.5	8437.5
55°	11026.9	11028.5	10970.9	10944.6	10625.5	9172.9	8988.6	8477.0	9217.3	9717.4
57.5°	11531.9	11535.2	11620.7	11852.7	11865.8	10186.2	9977.3	9592.4	10531.7	11041.7
60°	11982.6	12005.7	12239.3	12782.1	12956.5	11347.7	11150.2	10910.1	11890.5	12403.8
62.5°	12134.0	12217.9	12737.7	13509.3	14034.0	12772.3	12578.2	12435.0	13318.4	13795.5
65°	11877.4	12069.8	13075.0	14109.7	15142.8	14465.0	14272.6	14116.3	14802.3	15251.4
67.5°	11247.3	11495.7	13055.2	14739.8	16488.5	16501.6	16322.3	15955.5	16393.1	16565.8
70°	9587.4	9959.2	11905.3	14975.0	18033.2	19286.7	19114.0	18169.7	17980.5	17144.9
72.5°	6177.2	6677.3	8766.5	13038.8	18377.0	21907.3	21897.4	20168.5	18482.3	16019.6
75°	2253.7	2559.7	4073.2	8184.2	15425.8	21774.1	21838.2	19826.3	16871.8	12374.2
77.5°	820.9	898.2	1329.2	3145.4	9487.1	17470.6	17603.8	15850.2	12009.0	6210.1
80°	431.0	473.8	681.1	1220.6	4065.0	10375.4	10584.3	9419.6	5644.2	1870.4
82.5°	238.5	258.3	381.7	663.0	1831.0	4436.7	4561.8	3721.1	1985.6	792.9
85°	128.3	136.5	179.3	361.9	894.9	1538.1	1572.7	1112.1	791.3	465.6
87.5°	37.8	46.1	59.2	115.2	350.4	345.5	353.7	220.4	312.6	235.2
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°
3150.3	0°	3150.3	3150.3	3150.3	3150.3	3150.3	3150.3	3150.3	3150.3	3150.3	3150.3
3175.0	2.5°	3165.1	3160.2	3142.1	3133.8	3124.0	3122.3	3130.6	3132.2	3133.8	3135.5
3211.2	5°	3194.7	3178.3	3161.8	3151.9	3155.2	3156.9	3173.3	3184.8	3193.1	3199.6
3278.6	7.5°	3252.3	3239.1	3211.2	3209.5	3214.5	3229.3	3250.6	3277.0	3291.8	3303.3
3365.8	10°	3337.8	3313.2	3280.3	3285.2	3295.1	3316.4	3360.9	3382.3	3406.9	3428.3
3472.7	12.5°	3425.0	3403.6	3365.8	3369.1	3385.5	3423.4	3466.1	3492.5	3508.9	3525.4
3587.9	15°	3538.5	3500.7	3459.6	3459.6	3489.2	3530.3	3550.0	3571.4	3581.3	3599.4
3711.3	17.5°	3655.3	3606.0	3551.7	3548.4	3584.6	3604.3	3615.9	3619.1	3622.4	3642.2
3831.4	20°	3772.1	3717.8	3640.5	3633.9	3642.2	3638.9	3637.2	3633.9	3638.9	3663.6
3954.7	22.5°	3887.3	3824.8	3717.8	3688.2	3665.2	3633.9	3632.3	3630.7	3633.9	3658.6
4088.0	25°	4022.2	3946.5	3803.4	3714.6	3637.2	3594.5	3599.4	3601.0	3604.3	3624.1
4226.2	27.5°	4168.6	4084.7	3882.4	3706.3	3566.5	3536.9	3528.7	3533.6	3545.1	3576.4
4364.4	30°	4315.0	4216.3	3954.7	3673.4	3477.7	3436.5	3410.2	3421.7	3457.9	3489.2
4484.4	32.5°	4448.3	4349.5	4012.3	3601.0	3364.2	3300.0	3265.5	3280.3	3316.4	3328.0
4617.7	35°	4604.5	4492.7	4037.0	3485.9	3240.8	3142.1	3096.0	3074.6	3092.7	3081.2
4774.0	37.5°	4778.9	4662.1	4033.7	3334.5	3096.0	2982.5	2918.3	2837.7	2799.9	2760.4
5004.3	40°	5037.2	4869.4	3994.2	3151.9	2916.7	2813.1	2697.9	2561.4	2475.8	2398.5
5376.1	42.5°	5389.2	5157.3	3921.8	2951.2	2714.4	2617.3	2461.0	2301.4	2166.5	2038.2
5940.3	45°	5914.0	5534.0	3831.4	2737.4	2495.6	2400.1	2230.7	2051.4	1898.4	1733.9
6741.5	47.5°	6670.7	6040.7	3745.8	2493.9	2265.3	2178.1	2025.1	1858.9	1678.0	1518.4
7899.6	50°	7710.4	6767.8	3666.8	2257.0	2038.2	1972.4	1850.7	1681.3	1498.7	1370.3
9256.8	52.5°	9033.0	7756.5	3633.9	2028.4	1826.0	1801.3	1704.3	1546.4	1373.6	1265.1
10839.3	55°	10551.4	8939.3	3633.9	1809.6	1640.1	1648.4	1580.9	1434.5	1284.8	1187.7
12471.2	57.5°	12101.1	10136.9	3568.1	1607.2	1482.2	1516.7	1474.0	1345.7	1210.8	1110.4
14187.0	60°	13529.0	11140.4	3301.6	1423.0	1342.4	1396.7	1368.7	1258.5	1094.0	1010.1
15621.5	62.5°	14626.3	11706.3	2788.4	1276.6	1227.2	1289.7	1274.9	1143.3	1072.6	1038.0
16799.4	65°	15175.7	11614.2	2132.0	1146.6	1130.2	1227.2	1196.0	1191.0	1135.1	1095.6
17182.7	67.5°	14838.5	10821.2	1546.4	1051.2	1074.2	1169.6	1289.7	1309.5	1205.8	1128.5
16103.5	70°	13359.6	9386.7	1151.5	960.7	1003.5	1171.3	1470.7	1370.3	1182.8	1092.3
12915.4	72.5°	10163.2	6999.7	893.3	865.3	911.4	1179.5	1551.3	1342.4	1117.0	1207.5
8046.0	75°	5812.0	3842.9	717.2	748.5	796.2	1102.2	1510.2	1270.0	1066.0	1108.8
3188.1	77.5°	2215.9	1477.3	592.2	633.3	639.9	962.4	1444.4	1265.1	1015.0	990.3
955.8	80°	768.2	577.4	490.2	503.4	495.2	855.4	1385.1	1100.5	830.8	743.6
394.8	82.5°	314.2	287.9	388.2	371.8	352.0	664.6	1118.6	899.8	679.4	600.4
190.8	85°	136.5	182.6	256.6	225.4	204.0	460.6	896.6	761.7	574.1	495.2
62.5	87.5°	28.0	69.1	108.6	102.0	105.3	307.6	636.6	541.2	406.3	304.3
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>
3150.3
3142.1
3202.9
3306.6
3423.4
3532.0
3606.0
3648.8
3673.4
3675.1
3650.4
3607.6
3523.7
3369.1
3117.4
2785.1
2403.4
2026.7
1714.2
1500.3
1362.1
1256.8
1177.9
1094.0
996.9
1026.5
1082.5
1115.4
1077.5
1197.6
1108.8
903.1
718.9
593.9
493.5
238.5
0.0

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