

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: P944449

Luminaire Tested: **GALN-SB9B-927-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-927-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30857 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

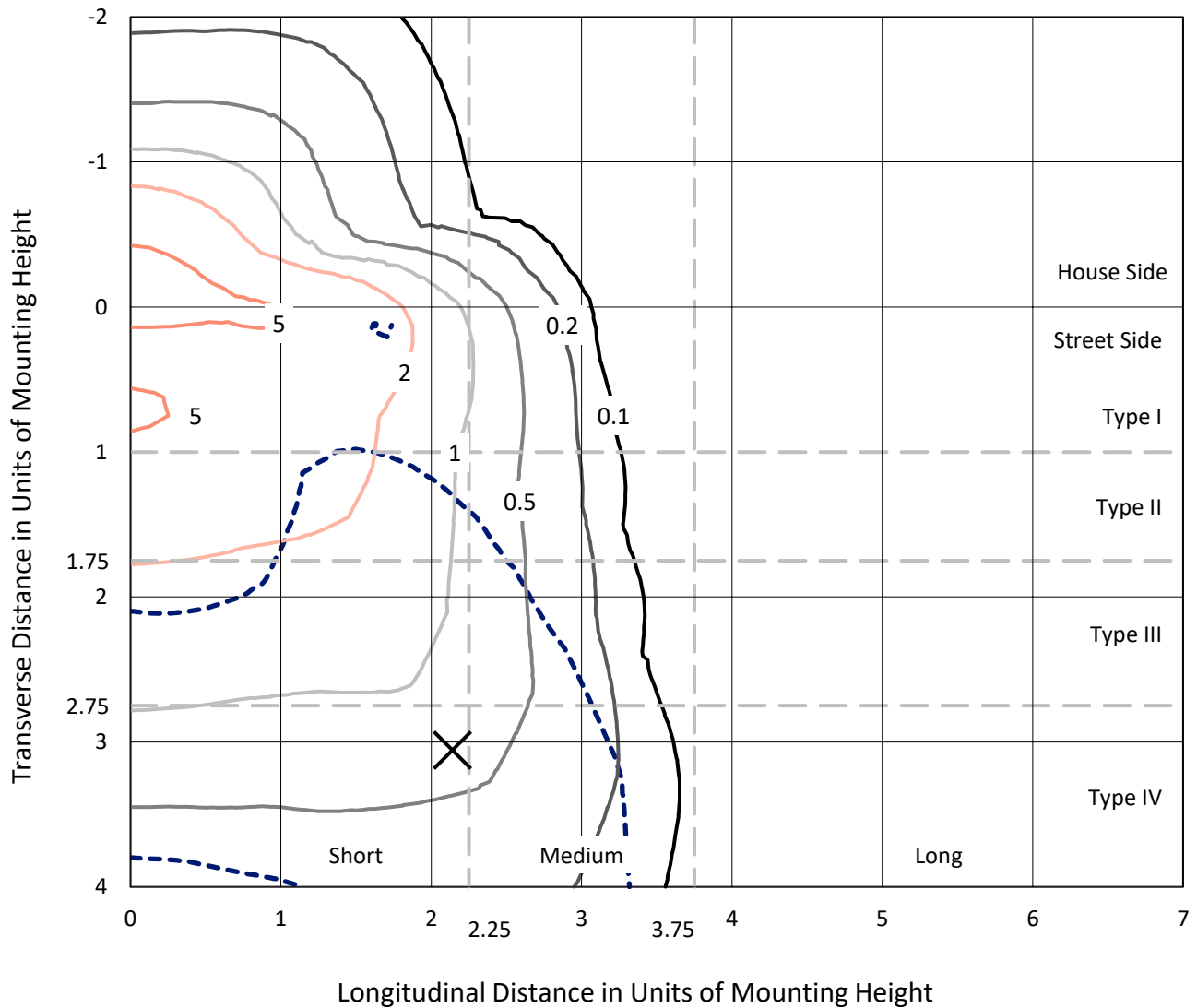
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

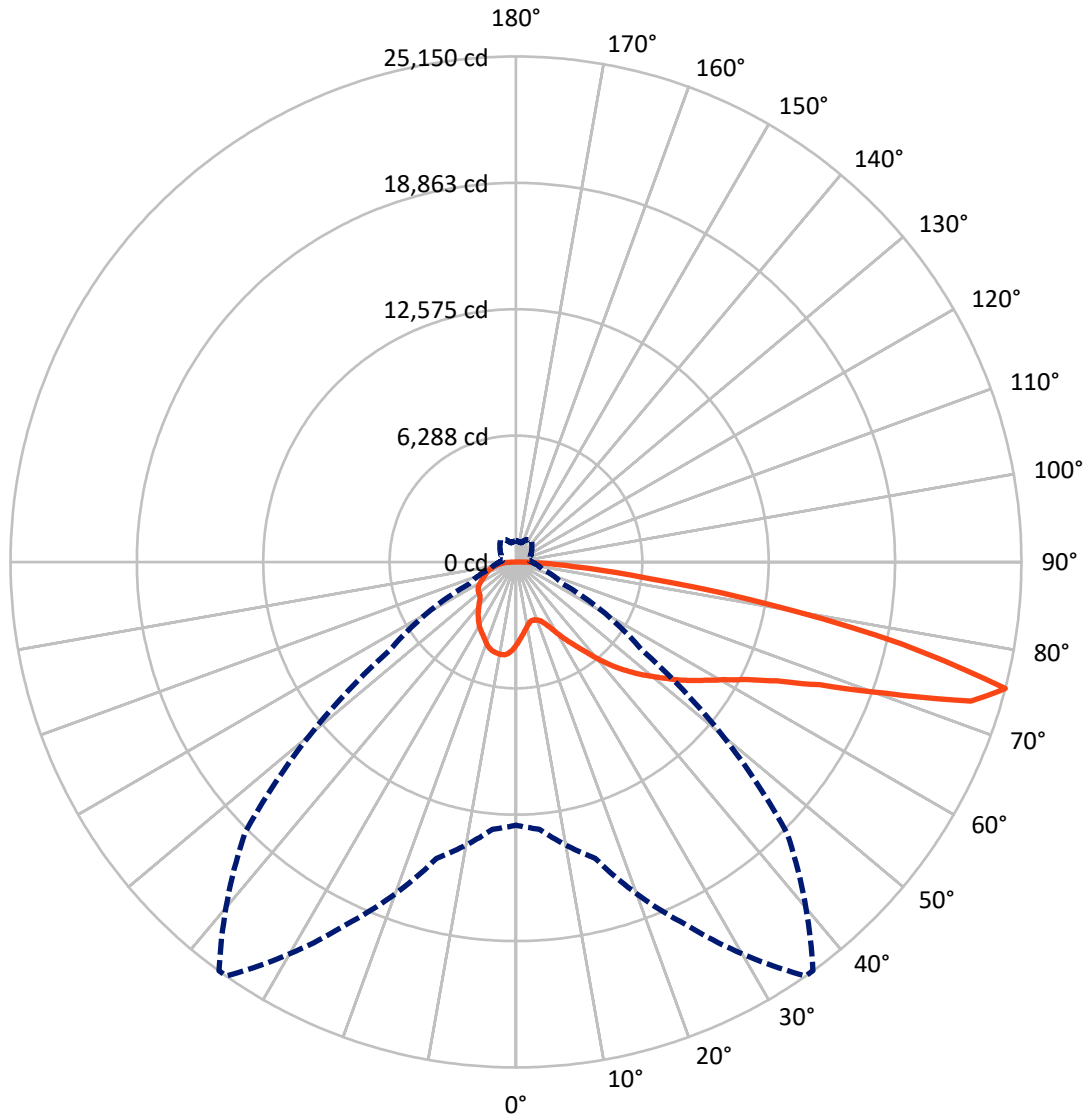
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7343.2	0.0	7343.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	23513.8	0.0	23513.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	30857.0	0.0	30857.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.3	1.3
10°-20°	1123.0	3.6
20°-30°	1885.7	6.1
30°-40°	2930.7	9.5
40°-50°	4349.9	14.1
50°-60°	6005.3	19.5
60°-70°	7285.8	23.6
70°-80°	6021.2	19.5
80°-90°	866.0	2.8
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°	30857.0	100.0
0°-180°	30857.0	100.0

Coefficient of Utilization



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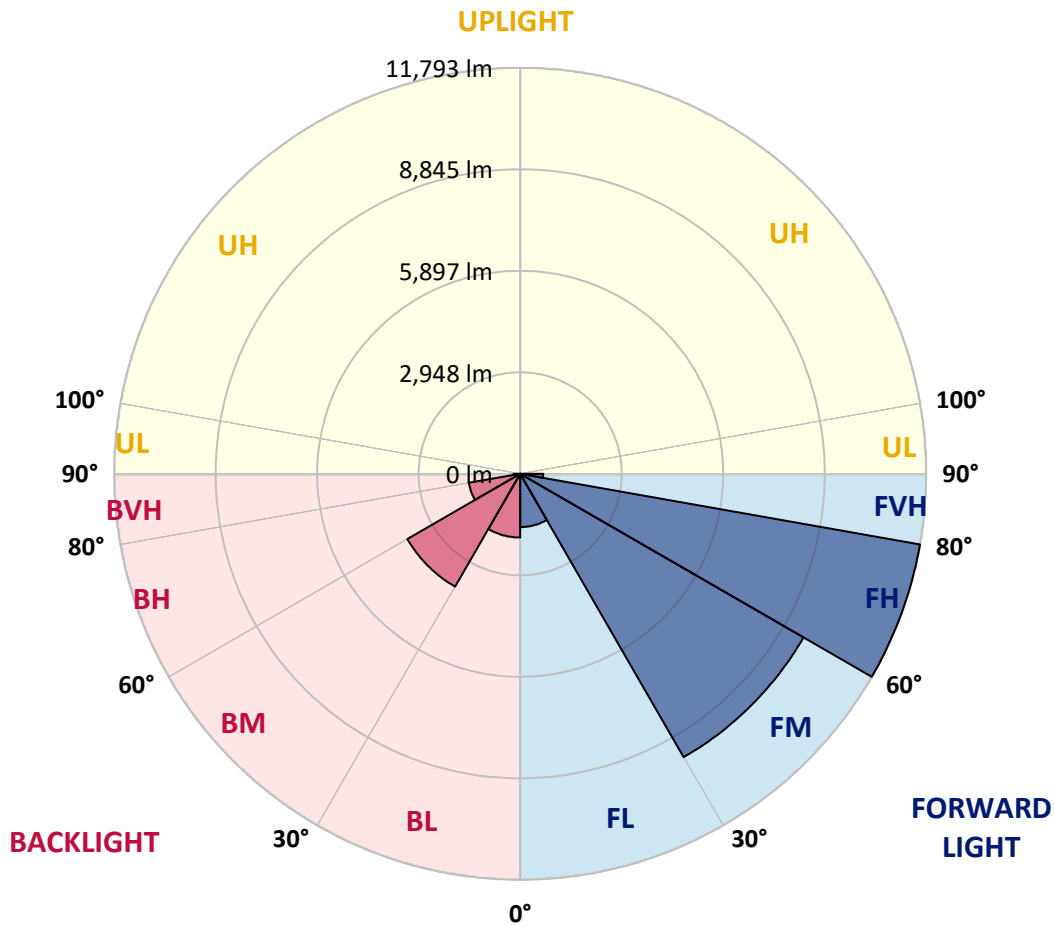
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1547.4	5.0			
FM (30°-60°)	9502.3	30.8			
FH (60°-80°)	11793.1	38.2			G4/12000
FVH (80°-90°)	671.0	2.2			G4/750
BL (0°-30°)	1850.6	6.0	B3/2500		
BM (30°-60°)	3783.7	12.3	B3/5000		
BH (60°-80°)	1513.9	4.9	B3/2500		G3/2500
BVH (80°-90°)	195.0	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9
2.5°	3791.6	3815.0	3825.0	3820.0	3845.0	3841.7	3876.7	3920.1	3980.1	4038.5
5°	3499.7	3524.7	3546.4	3566.4	3614.8	3629.8	3684.9	3768.3	3878.4	3990.1
7.5°	3227.8	3249.5	3282.9	3319.5	3401.3	3416.3	3508.0	3638.2	3791.6	3955.1
10°	3005.9	3027.6	3062.7	3104.4	3206.1	3224.5	3341.2	3514.7	3714.9	3921.7
12.5°	2910.9	2917.5	2937.6	2979.3	3067.7	3079.3	3207.8	3406.3	3639.8	3896.7
15°	2905.9	2919.2	2920.9	2942.6	3016.0	3021.0	3139.4	3336.2	3593.1	3891.7
17.5°	2955.9	2965.9	2950.9	2964.2	3026.0	3034.3	3127.7	3302.9	3578.1	3913.4
20°	3089.3	3097.7	3052.7	3034.3	3079.3	3086.0	3177.8	3324.6	3593.1	3958.4
22.5°	3372.9	3377.9	3267.8	3192.8	3196.1	3199.4	3279.5	3413.0	3651.5	4040.2
25°	3815.0	3811.6	3636.5	3491.4	3408.0	3389.6	3443.0	3556.4	3749.9	4148.6
27.5°	4332.1	4307.1	4131.9	3915.1	3733.2	3706.6	3694.9	3743.3	3890.0	4292.1
30°	4915.9	4892.6	4704.1	4420.5	4168.6	4125.2	4015.2	3990.1	4098.6	4487.2
32.5°	5556.5	5541.5	5316.3	4972.7	4635.7	4585.6	4400.5	4333.8	4418.8	4782.5
35°	6093.6	6080.3	5893.5	5539.8	5127.8	5066.1	4877.6	4802.5	4845.9	5161.1
37.5°	6579.0	6572.4	6412.2	6133.7	5708.3	5633.2	5421.4	5396.4	5388.0	5659.9
40°	7029.4	7012.8	6845.9	6699.2	6383.9	6315.5	6128.7	6107.0	6043.6	6273.8
42.5°	7528.2	7484.8	7243.0	7174.6	7089.5	7032.8	6921.0	6924.3	6784.2	6966.0
45°	7935.2	7910.2	7661.7	7621.6	7713.4	7690.0	7786.8	7811.8	7539.9	7691.7
47.5°	8372.3	8348.9	8138.7	8110.4	8358.9	8365.6	8707.6	8715.9	8277.2	8445.7
50°	8911.1	8877.7	8669.2	8704.2	8982.8	9007.8	9633.4	9576.6	8956.1	9211.3
52.5°	9266.4	9286.4	9241.4	9298.1	9678.4	9701.8	10544.2	10399.0	9628.4	9967.0
55°	9528.3	9568.3	9708.4	9838.5	10412.4	10435.7	11403.2	11181.4	10185.5	10667.6
57.5°	9865.2	9808.5	10070.4	10324.0	11109.6	11171.4	12239.0	11935.4	10679.3	11271.5
60°	10349.0	10309.0	10512.5	10887.8	11890.3	11988.7	13123.1	12614.3	11041.3	11750.2
62.5°	11329.8	11229.8	11261.4	11593.4	12874.5	13004.6	14120.6	13206.5	11221.4	11937.0
65°	12796.1	12624.3	12464.2	12694.4	14260.7	14389.2	15246.6	13671.9	11154.7	11575.1
67.5°	14642.7	14472.6	14275.7	14492.6	16302.5	16404.2	16636.1	13933.8	10629.2	10180.5
70°	16165.7	16102.3	16337.5	17230.0	19563.7	19567.0	18417.7	13716.9	9189.6	7217.9
72.5°	15963.9	15925.5	17164.9	19924.0	23673.9	23585.5	20104.1	12075.5	6190.4	3256.2
75°	13096.4	13344.9	15264.9	19875.6	25150.2	25138.5	19071.6	7676.7	2560.6	1349.5
77.5°	7022.8	7416.4	9910.3	14674.4	19633.7	19929.0	13408.3	2685.7	1099.3	864.1
80°	2290.3	2634.0	3950.1	7471.5	12757.7	12702.7	5746.7	1054.2	752.3	612.2
82.5°	972.5	1012.5	1764.9	3528.1	6547.4	6445.6	1829.9	605.5	528.8	418.7
85°	380.3	425.4	779.0	1631.4	2835.8	2774.1	660.6	300.3	338.6	273.6
87.5°	125.1	151.8	278.6	558.8	882.4	850.7	161.8	103.4	146.8	125.1
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°
4111.9	0°	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9
4123.6	2.5°	4146.9	4173.6	4205.3	4252.0	4292.1	4325.4	4360.5	4382.1	4390.5	4415.5
4130.3	5°	4177.0	4235.3	4313.7	4390.5	4465.5	4510.6	4550.6	4570.6	4589.0	4602.3
4148.6	7.5°	4227.0	4302.1	4425.5	4525.6	4589.0	4625.7	4652.4	4645.7	4652.4	4655.7
4168.6	10°	4270.4	4375.5	4522.3	4617.3	4665.7	4667.4	4660.7	4637.4	4625.7	4627.4
4198.6	12.5°	4322.1	4438.9	4597.3	4677.4	4690.7	4654.0	4625.7	4585.6	4570.6	4564.0
4243.7	15°	4392.1	4525.6	4679.1	4709.1	4675.7	4629.0	4580.6	4515.6	4482.2	4455.5
4320.4	17.5°	4477.2	4624.0	4742.5	4720.8	4649.0	4572.3	4493.9	4395.5	4327.1	4298.7
4425.5	20°	4595.7	4727.4	4790.8	4695.7	4587.3	4470.5	4337.1	4217.0	4153.6	4125.2
4559.0	22.5°	4739.1	4865.9	4837.5	4652.4	4498.9	4312.1	4145.3	4056.9	4025.2	4005.1
4730.8	25°	4910.9	5019.4	4870.9	4589.0	4353.8	4101.9	3973.5	3945.1	3930.1	3915.1
4941.0	27.5°	5134.5	5192.8	4895.9	4495.6	4126.9	3878.4	3831.7	3836.7	3831.7	3806.6
5232.9	30°	5429.7	5418.0	4919.3	4343.8	3866.7	3676.5	3679.9	3701.5	3704.9	3688.2
5639.9	32.5°	5818.4	5699.9	4930.9	4146.9	3618.1	3499.7	3503.0	3526.4	3543.1	3514.7
6172.0	35°	6288.8	6028.6	4912.6	3900.1	3426.3	3331.2	3306.2	3312.9	3317.9	3291.2
6817.6	37.5°	6837.6	6397.2	4830.9	3626.5	3267.8	3166.1	3112.7	3067.7	3041.0	3016.0
7548.2	40°	7439.8	6799.2	4680.7	3359.6	3091.0	2990.9	2910.9	2825.8	2735.7	2702.3
8322.2	42.5°	8070.3	7212.9	4498.9	3104.4	2887.5	2805.8	2720.7	2597.3	2462.1	2393.7
9126.3	45°	8724.2	7636.6	4320.4	2852.5	2679.0	2644.0	2545.5	2397.1	2250.3	2163.5
9932.0	47.5°	9364.8	8037.0	4058.5	2598.9	2483.8	2522.2	2445.5	2308.7	2145.2	2008.4
10731.0	50°	9977.0	8412.3	3629.8	2342.0	2325.4	2485.5	2412.1	2215.3	2028.4	1853.3
11515.0	52.5°	10584.2	8715.9	3081.0	2108.5	2240.3	2475.5	2368.7	2151.9	1923.3	1739.8
12252.3	55°	11099.6	8872.7	2552.2	1908.3	2116.8	2390.4	2317.0	2076.8	1774.9	1579.7
12757.7	57.5°	11393.2	8745.9	2111.8	1711.5	1946.7	2250.3	2228.6	1916.7	1598.1	1447.9
12856.2	60°	11266.5	8232.1	1751.5	1539.7	1784.9	2098.5	2075.1	1758.2	1462.9	1321.1
12329.0	62.5°	10567.5	7253.0	1466.3	1389.5	1638.1	1943.4	1921.7	1636.4	1359.5	1222.7
10929.5	65°	9159.6	5900.1	1244.4	1264.4	1489.6	1756.5	1788.2	1534.7	1277.8	1144.3
8455.7	67.5°	6986.1	4273.7	1070.9	1156.0	1344.5	1573.0	1664.8	1461.3	1209.4	1082.6
4892.6	70°	3981.8	2427.1	924.1	1050.9	1216.1	1402.9	1569.7	1402.9	1136.0	1030.9
1833.3	72.5°	1509.6	1114.3	799.0	945.8	1092.6	1259.4	1464.6	1311.1	1050.9	972.5
947.5	75°	805.7	678.9	672.3	822.4	950.8	1119.3	1332.8	1221.1	987.5	1027.6
655.6	77.5°	548.8	480.4	562.2	703.9	795.7	964.2	1192.7	1084.3	855.7	852.4
453.7	80°	380.3	340.3	457.1	567.2	615.5	810.7	1040.9	930.8	697.3	650.6
280.2	82.5°	228.5	221.9	342.0	423.7	435.4	625.5	862.4	780.7	570.5	497.1
166.8	85°	125.1	131.8	218.5	248.5	253.6	437.0	675.6	603.9	438.7	368.7
60.1	87.5°	35.0	45.0	80.1	98.4	121.8	226.9	402.0	358.6	220.2	153.5
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>
4111.9
4413.8
4605.7
4660.7
4630.7
4560.6
4463.9
4300.4
4121.9
4008.5
3915.1
3811.6
3696.5
3528.1
3309.5
3032.6
2717.4
2402.1
2156.9
1993.4
1838.3
1719.8
1563.0
1427.9
1301.1
1201.0
1122.6
1062.6
1017.6
959.2
1060.9
785.7
622.2
500.4
372.0
153.5
0.0

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