

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: P942839

Luminaire Tested: **GALN-SB7A-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942839
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-SB7A-740-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33358 lumens
Efficiency: N/A
Efficacy: 167.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

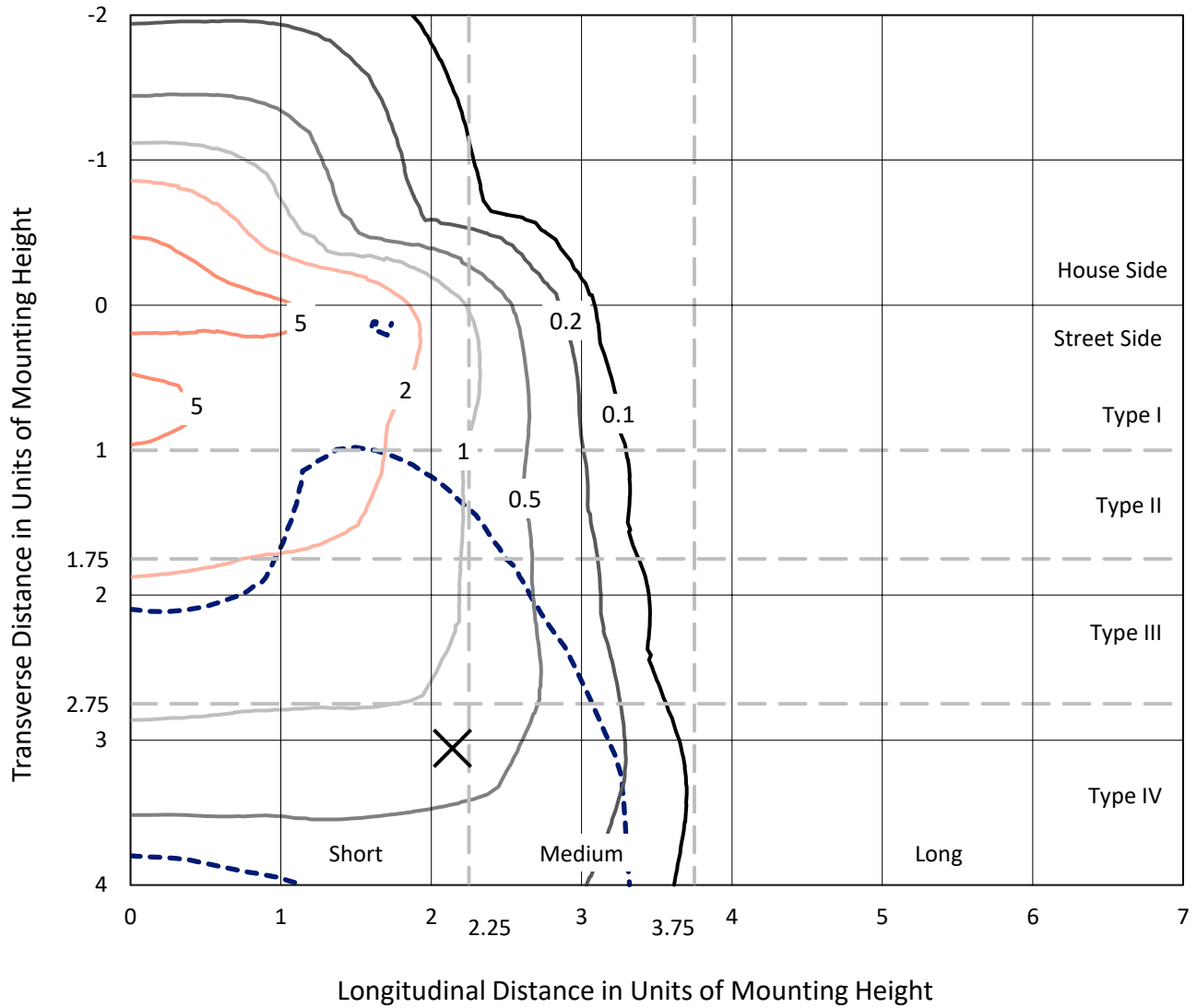
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

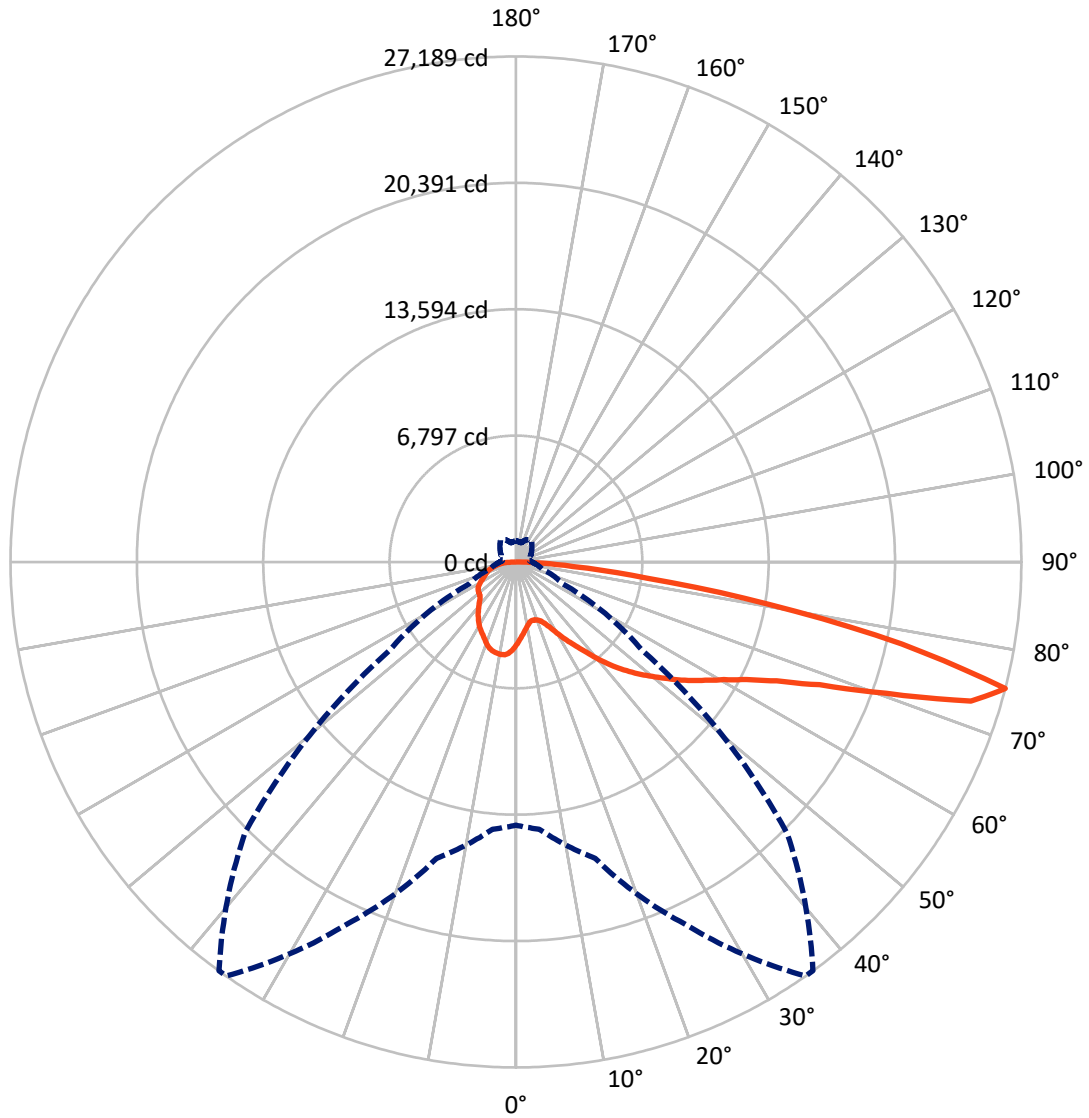
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	7938.4	0.0	7938.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	25419.6	0.0	25419.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	33358.0	0.0	33358.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.9	1.3
10°-20°	1214.0	3.6
20°-30°	2038.6	6.1
30°-40°	3168.2	9.5
40°-50°	4702.5	14.1
50°-60°	6492.1	19.5
60°-70°	7876.4	23.6
70°-80°	6509.2	19.5
80°-90°	936.2	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°	33358.0	100.0
0°-180°	33358.0	100.0

Coefficient of Utilization



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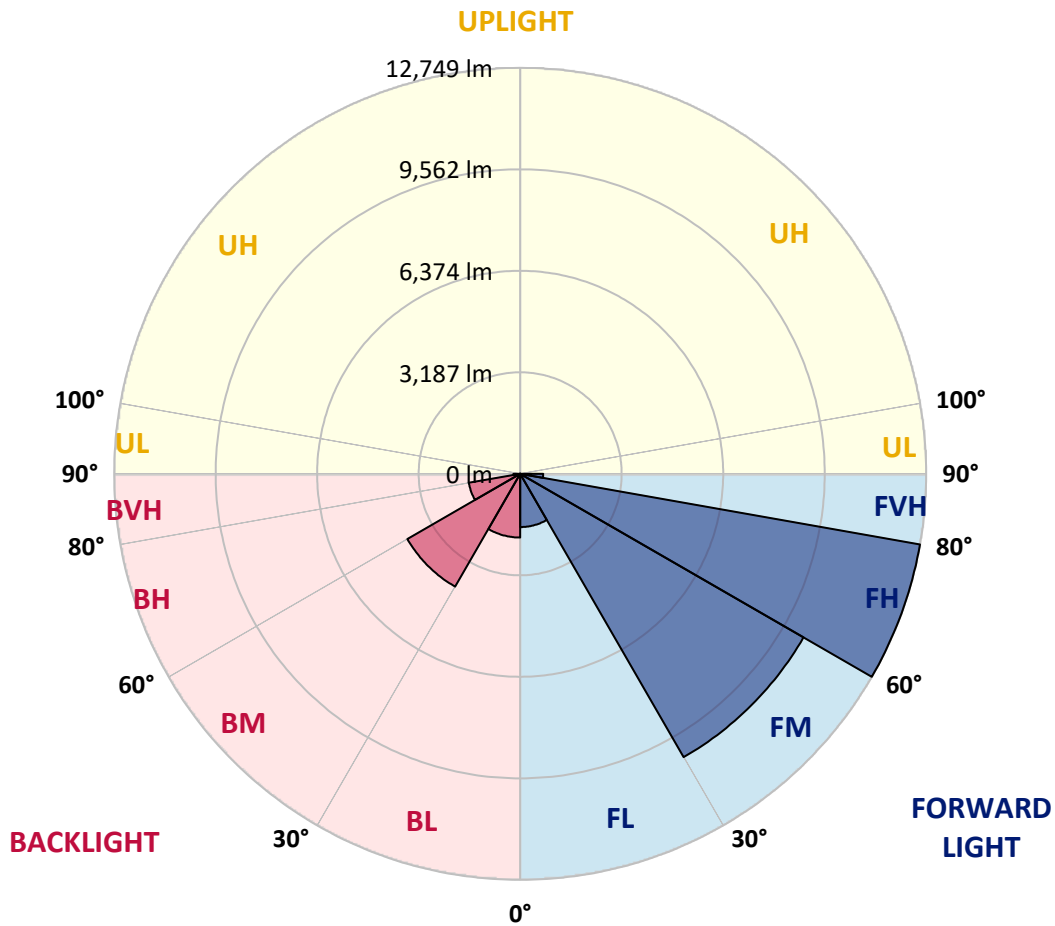
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1672.8	5.0			
FM (30°-60°)	10272.5	30.8			
FH (60°-80°)	12748.9	38.2			G5
FVH (80°-90°)	725.4	2.2			G4/750
BL (0°-30°)	2000.6	6.0	B3/2500		
BM (30°-60°)	4090.3	12.3	B3/5000		
BH (60°-80°)	1636.7	4.9	B3/2500		G3/2500
BVH (80°-90°)	210.8	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	4445.2	4445.2	4445.2	4445.2	4445.2	4445.2	4445.2	4445.2	4445.2	4445.2
2.5°	4098.9	4124.2	4135.0	4129.6	4156.6	4153.0	4190.9	4237.8	4302.7	4365.8
5°	3783.4	3810.4	3833.9	3855.5	3907.8	3924.0	3983.5	4073.7	4192.7	4313.5
7.5°	3489.4	3512.9	3548.9	3588.6	3677.0	3693.2	3792.4	3933.0	4098.9	4275.7
10°	3249.6	3273.0	3310.9	3356.0	3466.0	3485.8	3612.0	3799.6	4016.0	4239.6
12.5°	3146.8	3154.0	3175.6	3220.7	3316.3	3328.9	3467.8	3682.4	3934.8	4212.6
15°	3141.4	3155.8	3157.6	3181.1	3260.4	3265.8	3393.8	3606.6	3884.3	4207.1
17.5°	3195.5	3206.3	3190.1	3204.5	3271.2	3280.2	3381.2	3570.6	3868.1	4230.6
20°	3339.7	3348.8	3300.1	3280.2	3328.9	3336.1	3435.3	3594.0	3884.3	4279.3
22.5°	3646.3	3651.7	3532.7	3451.6	3455.2	3458.8	3545.3	3689.6	3947.5	4367.6
25°	4124.2	4120.6	3931.2	3774.3	3684.2	3664.3	3722.0	3844.7	4053.9	4484.9
27.5°	4683.2	4656.2	4466.8	4232.4	4035.8	4007.0	3994.3	4046.6	4205.3	4639.9
30°	5314.4	5289.1	5085.4	4778.8	4506.5	4459.6	4340.6	4313.5	4430.8	4850.9
32.5°	6006.9	5990.6	5747.2	5375.7	5011.4	4957.3	4757.2	4685.0	4777.0	5170.1
35°	6587.5	6573.1	6371.1	5988.8	5543.4	5476.7	5272.9	5191.8	5238.6	5579.5
37.5°	7112.3	7105.1	6932.0	6630.8	6171.0	6089.8	5860.8	5833.7	5824.7	6118.7
40°	7599.2	7581.1	7400.8	7242.1	6901.3	6827.4	6625.4	6601.9	6533.4	6782.3
42.5°	8138.4	8091.5	7830.0	7756.1	7664.1	7602.8	7482.0	7485.6	7334.1	7530.7
45°	8578.4	8551.3	8282.6	8239.4	8338.5	8313.3	8417.9	8444.9	8151.0	8315.1
47.5°	9050.9	9025.6	8798.4	8767.7	9036.4	9043.6	9413.3	9422.3	8948.1	9130.2
50°	9633.3	9597.3	9371.8	9409.7	9710.9	9737.9	10414.2	10352.8	9682.0	9957.9
52.5°	10017.4	10039.1	9990.4	10051.7	10462.9	10488.1	11398.8	11241.9	10408.8	10774.8
55°	10300.6	10343.8	10495.3	10636.0	11256.3	11281.6	12327.5	12087.6	11011.1	11532.2
57.5°	10664.8	10603.5	10886.6	11160.7	12010.1	12076.8	13230.9	12902.7	11544.8	12185.0
60°	11187.8	11144.5	11364.5	11770.3	12854.1	12960.4	14186.7	13636.7	11936.2	12702.6
62.5°	12248.1	12139.9	12174.2	12533.1	13918.0	14058.7	15265.1	14276.9	12130.9	12904.5
65°	13833.3	13647.5	13474.4	13723.3	15416.6	15555.4	16482.3	14780.0	12058.8	12513.2
67.5°	15829.5	15645.6	15432.8	15667.2	17623.8	17733.8	17984.5	15063.1	11490.7	11005.7
70°	17476.0	17407.4	17661.7	18626.5	21149.3	21152.9	19910.4	14828.7	9934.5	7803.0
72.5°	17257.8	17216.3	18556.1	21538.8	25592.7	25497.1	21733.6	13054.2	6692.1	3520.1
75°	14157.9	14426.5	16502.2	21486.5	27188.6	27176.0	20617.3	8298.9	2768.1	1458.9
77.5°	7592.0	8017.6	10713.5	15863.8	21225.1	21544.2	14495.1	2903.3	1188.4	934.1
80°	2476.0	2847.4	4270.3	8077.1	13791.8	13732.3	6212.4	1139.7	813.3	661.8
82.5°	1051.3	1094.6	1907.9	3814.0	7078.0	6968.0	1978.2	654.6	571.7	452.6
85°	411.2	459.8	842.1	1763.6	3065.6	2998.9	714.1	324.6	366.1	295.7
87.5°	135.2	164.1	301.2	604.1	954.0	919.7	174.9	111.8	158.7	135.2
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°
4445.2	0°	4445.2	4445.2	4445.2	4445.2	4445.2	4445.2	4445.2	4445.2	4445.2	4445.2
4457.8	2.5°	4483.0	4511.9	4546.2	4596.7	4639.9	4676.0	4713.9	4737.3	4746.3	4773.4
4465.0	5°	4515.5	4578.6	4663.4	4746.3	4827.5	4876.2	4919.5	4941.1	4960.9	4975.4
4484.9	7.5°	4569.6	4650.8	4784.2	4892.4	4960.9	5000.6	5029.5	5022.2	5029.5	5033.1
4506.5	10°	4616.5	4730.1	4888.8	4991.6	5043.9	5045.7	5038.5	5013.2	5000.6	5002.4
4539.0	12.5°	4672.4	4798.6	4969.9	5056.5	5070.9	5031.3	5000.6	4957.3	4941.1	4933.9
4587.6	15°	4748.1	4892.4	5058.3	5090.8	5054.7	5004.2	4951.9	4881.6	4845.5	4816.7
4670.6	17.5°	4840.1	4998.8	5126.8	5103.4	5025.8	4942.9	4858.1	4751.7	4677.8	4647.2
4784.2	20°	4968.1	5110.6	5179.1	5076.3	4959.1	4832.9	4688.6	4558.8	4490.3	4459.6
4928.5	22.5°	5123.2	5260.3	5229.6	5029.5	4863.5	4661.6	4481.2	4385.7	4351.4	4329.8
5114.2	25°	5309.0	5426.2	5265.7	4960.9	4706.7	4434.4	4295.5	4264.8	4248.6	4232.4
5341.4	27.5°	5550.6	5613.7	5292.7	4859.9	4461.4	4192.7	4142.2	4147.6	4142.2	4115.2
5657.0	30°	5869.8	5857.2	5318.0	4695.8	4180.1	3974.5	3978.1	4001.6	4005.2	3987.1
6097.0	32.5°	6290.0	6161.9	5330.6	4483.0	3911.4	3783.4	3787.0	3812.2	3830.2	3799.6
6672.3	35°	6798.5	6517.2	5310.8	4216.2	3704.0	3601.2	3574.2	3581.4	3586.8	3557.9
7370.2	37.5°	7391.8	6915.7	5222.4	3920.4	3532.7	3422.7	3365.0	3316.3	3287.4	3260.4
8160.0	40°	8042.8	7350.3	5060.1	3631.9	3341.5	3233.3	3146.8	3054.8	2957.4	2921.4
8996.8	42.5°	8724.5	7797.5	4863.5	3356.0	3121.5	3033.2	2941.2	2807.8	2661.7	2587.8
9866.0	45°	9431.4	8255.6	4670.6	3083.7	2896.1	2858.3	2751.9	2591.4	2432.7	2338.9
10737.0	47.5°	10123.8	8688.4	4387.5	2809.6	2685.1	2726.6	2643.7	2495.8	2319.1	2171.2
11600.7	50°	10785.6	9094.1	3924.0	2531.9	2513.8	2686.9	2607.6	2394.8	2192.8	2003.5
12448.3	52.5°	11442.1	9422.3	3330.7	2279.4	2421.9	2676.1	2560.7	2326.3	2079.2	1880.9
13245.4	55°	11999.3	9591.8	2759.1	2063.0	2288.4	2584.2	2504.8	2245.1	1918.7	1707.7
13791.8	57.5°	12316.7	9454.8	2283.0	1850.2	2104.5	2432.7	2409.2	2072.0	1727.6	1565.3
13898.2	60°	12179.6	8899.4	1893.5	1664.5	1929.6	2268.6	2243.3	1900.7	1581.5	1428.2
13328.3	62.5°	11424.0	7840.8	1585.1	1502.2	1770.9	2100.9	2077.4	1769.1	1469.7	1321.8
11815.3	65°	9902.0	6378.3	1345.3	1366.9	1610.4	1898.9	1933.2	1659.1	1381.3	1237.1
9141.0	67.5°	7552.3	4620.1	1157.7	1249.7	1453.5	1700.5	1799.7	1579.7	1307.4	1170.4
5289.1	70°	4304.5	2623.8	999.0	1136.1	1314.6	1516.6	1696.9	1516.6	1228.1	1114.5
1981.8	72.5°	1632.0	1204.6	863.8	1022.5	1181.2	1361.5	1583.3	1417.4	1136.1	1051.3
1024.3	75°	871.0	734.0	726.7	889.0	1027.9	1210.0	1440.9	1320.0	1067.6	1110.8
708.7	77.5°	593.3	519.4	607.7	761.0	860.2	1042.3	1289.4	1172.2	925.1	921.5
490.5	80°	411.2	367.9	494.1	613.1	665.4	876.4	1125.3	1006.3	753.8	703.3
303.0	82.5°	247.1	239.8	369.7	458.0	470.7	676.2	932.3	844.0	616.7	537.4
180.3	85°	135.2	142.5	236.2	268.7	274.1	472.5	730.3	652.8	474.3	398.5
64.9	87.5°	37.9	48.7	86.6	106.4	131.6	245.3	434.6	387.7	238.0	165.9
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>
4445.2
4771.6
4979.0
5038.5
5006.0
4930.3
4825.7
4649.0
4456.0
4333.4
4232.4
4120.6
3996.2
3814.0
3577.8
3278.4
2937.6
2596.8
2331.7
2155.0
1987.3
1859.2
1689.7
1543.6
1406.6
1298.4
1213.6
1148.7
1100.0
1036.9
1146.9
849.4
672.6
541.0
402.1
165.9
0.0

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