

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: P956205

Luminaire Tested: **GALN-SB8D-935-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-935-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58304 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

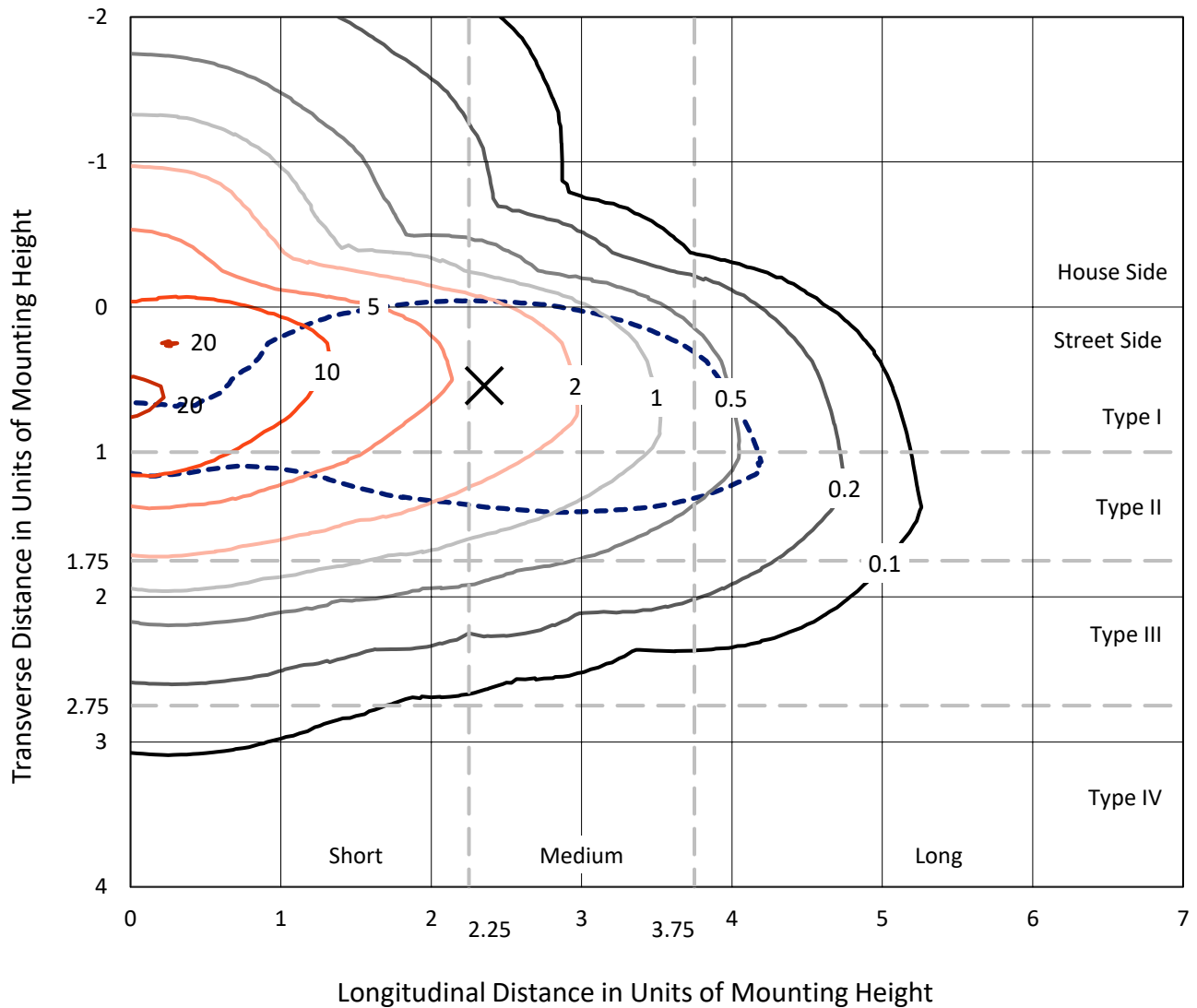
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

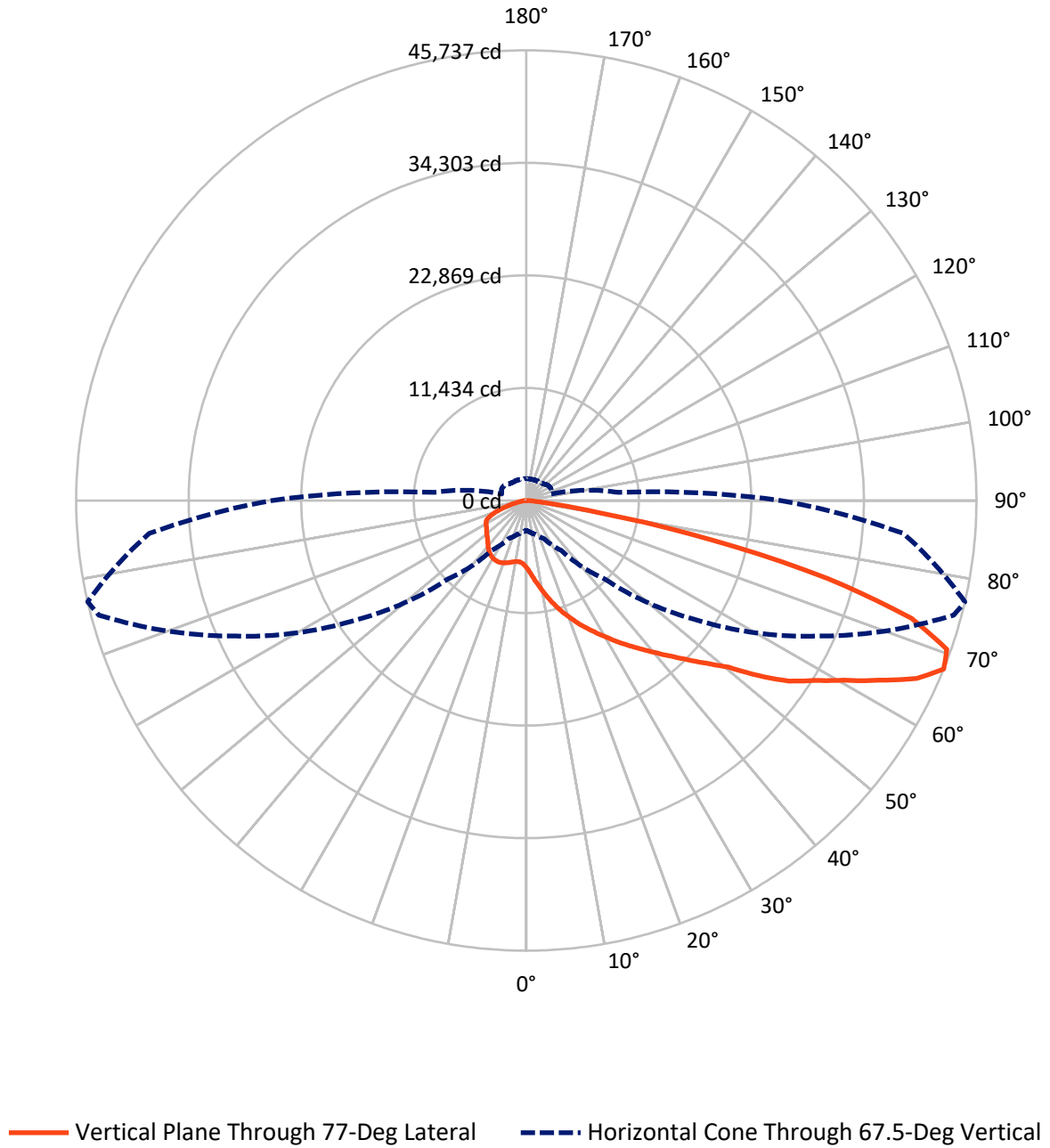
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.4 fc
 Type II - Medium - N/A

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CATALOG NUMBER: GALN-SB8D-935-U-T2R

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11028.8	0.0	11028.8
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	47275.2	0.0	47275.2
	% Fixture	81.1	0.0	81.1
Total	Lumens	58304.0	0.0	58304.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	733.3	1.3
10°-20°	2634.3	4.5
20°-30°	4973.8	8.5
30°-40°	8012.6	13.7
40°-50°	10959.8	18.8
50°-60°	12362.8	21.2
60°-70°	11539.1	19.8
70°-80°	6325.4	10.8
80°-90°	763.0	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°	58304.0	100.0
0°-180°	58304.0	100.0

Coefficient of Utilization

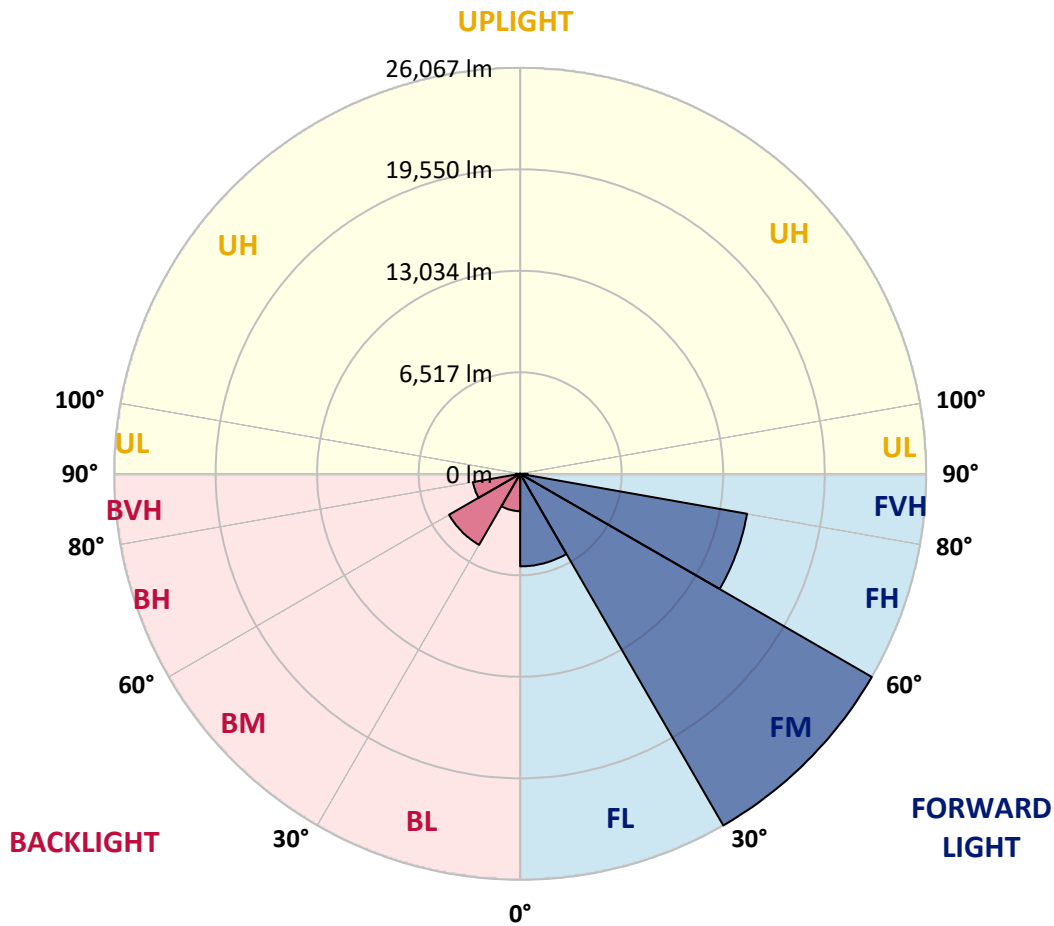


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5943.4	10.2			
FM (30°-60°)	26067.1	44.7			
FH (60°-80°)	14787.6	25.4			G5
FVH (80°-90°)	477.2	0.8			G3/500
BL (0°-30°)	2397.9	4.1	B3/2500		
BM (30°-60°)	5268.2	9.0	B4/8500		
BH (60°-80°)	3076.9	5.3	B4/5000		G4/5000
BVH (80°-90°)	285.8	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6840.9	6840.9	6840.9	6840.9	6840.9	6840.9	6840.9	6840.9	6840.9	6840.9
2.5°	8565.4	8625.6	8550.3	8550.3	8297.5	8165.1	7912.3	7719.7	7373.6	7313.4
5°	10124.4	10199.6	10094.3	10049.1	9751.2	9477.3	9052.9	8634.6	8017.6	7954.4
7.5°	11331.2	11427.5	11334.2	11286.1	11021.2	10714.3	10217.7	9633.8	8764.0	8640.6
10°	12315.4	12330.4	12300.3	12318.4	12110.7	11857.9	11349.3	10669.1	9582.6	9414.1
12.5°	12872.2	12941.4	13001.6	13109.9	13073.8	12917.3	12459.8	11647.2	10449.4	10232.7
15°	13134.0	13254.4	13389.8	13639.6	13841.3	13880.4	13531.3	12697.6	11331.2	11069.4
17.5°	13227.3	13341.7	13555.3	13916.5	14349.9	14641.8	14485.3	13717.9	12204.0	11903.1
20°	13699.8	13732.9	13862.3	14205.4	14674.9	15159.5	15276.8	14699.0	13067.8	12727.7
22.5°	14711.0	14644.8	14680.9	14837.4	15174.5	15644.0	15911.9	15565.8	13955.6	13564.4
25°	16381.4	16188.8	15996.1	15815.6	15987.1	16252.0	16555.9	16432.5	14885.6	14389.0
27.5°	18491.1	18256.4	17832.0	17239.1	17031.5	17124.7	17260.2	17236.1	15746.3	15243.7
30°	20567.8	20293.9	19788.3	18930.5	18382.8	18136.0	18033.7	17964.4	16682.3	16146.6
32.5°	22226.1	22009.4	21512.8	20552.7	19758.2	19336.8	18996.7	18749.9	17660.5	17124.7
35°	23676.7	23475.1	22906.2	21858.9	20995.1	20546.7	20101.3	19574.6	18677.7	18136.0
37.5°	25000.9	24799.3	24019.8	22930.3	22060.5	21750.5	21353.3	20459.4	19698.0	19186.3
40°	25837.6	25792.5	25064.1	23830.2	22927.3	22773.8	22641.4	21485.7	20829.6	20354.1
42.5°	26051.3	26150.6	25572.8	24558.5	23697.8	23574.4	23884.4	22647.4	22099.7	21645.2
45°	25536.6	25822.6	25443.3	24754.1	24245.5	24179.3	24985.9	23917.5	23505.1	23089.8
47.5°	24233.5	24718.0	24561.5	24465.2	24393.0	24678.9	25955.0	25265.8	25097.2	24736.1
50°	21603.1	22521.0	22794.9	23402.8	24101.1	25067.1	26836.8	26737.5	26957.2	26593.0
52.5°	17055.5	18319.6	19908.6	21431.5	23204.2	24937.7	27805.9	28850.2	29777.2	29578.6
55°	14079.0	14647.8	15869.7	18662.7	21464.6	24393.0	28242.3	30556.7	32576.1	32398.6
57.5°	11791.7	12300.3	13052.7	15385.2	18834.2	23156.0	28513.2	31598.0	34493.3	34475.2
60°	9338.9	9877.6	10648.0	12300.3	15761.4	21019.2	28453.0	32783.8	36940.1	37090.6
62.5°	6570.0	7162.9	8017.6	9558.6	12622.4	18250.3	27225.0	33641.6	39820.3	40229.6
65°	4318.8	4710.1	5354.1	6684.4	9405.1	14690.0	24880.5	33752.9	42902.2	43594.4
67.5°	3027.7	3178.2	3557.4	4279.7	6199.8	11265.0	21145.6	32600.2	44957.7	45737.2
70°	2362.6	2437.8	2630.4	2919.3	3894.5	7575.2	16203.8	29602.6	44518.3	45330.9
72.5°	2040.5	2112.8	2185.0	2221.1	2612.4	4677.0	10976.1	24751.1	40380.1	40930.9
75°	1850.9	1869.0	1929.2	1917.1	1992.4	3033.7	6335.3	18033.7	31859.9	31670.3
77.5°	1556.0	1580.1	1679.4	1664.3	1769.7	2073.6	3289.5	11638.2	20655.0	19366.9
80°	1318.2	1330.3	1438.6	1420.5	1537.9	1501.8	1679.4	5932.0	8761.0	7421.7
82.5°	457.5	565.8	1098.5	1131.6	1173.8	908.9	969.1	2419.7	2675.6	2049.6
85°	222.7	237.8	559.8	794.5	791.5	457.5	472.5	863.8	842.7	662.1
87.5°	36.1	45.1	66.2	310.0	246.8	120.4	162.5	168.5	174.6	150.5
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°
6840.9	0°	6840.9	6840.9	6840.9	6840.9	6840.9	6840.9	6840.9	6840.9	6840.9	6840.9
7084.6	2.5°	6916.1	6765.6	6449.6	6157.7	5929.0	5709.3	5585.9	5480.5	5420.3	5408.3
7415.7	5°	7102.7	6792.7	6217.9	5733.3	5417.3	5182.6	5059.2	4980.9	4941.8	4917.7
7861.1	7.5°	7370.6	6916.1	6097.5	5546.7	5215.7	5047.1	4983.9	4971.9	4968.9	4971.9
8399.9	10°	7740.7	7117.8	6085.5	5501.6	5224.7	5131.4	5128.4	5131.4	5143.4	5146.5
8986.7	12.5°	8141.0	7325.4	6133.6	5540.7	5339.1	5287.9	5278.9	5275.9	5284.9	5290.9
9579.6	15°	8577.4	7599.3	6214.9	5625.0	5465.5	5411.3	5402.3	5384.2	5381.2	5378.2
10202.6	17.5°	9025.9	7870.2	6305.2	5715.3	5546.7	5471.5	5438.4	5396.3	5363.1	5354.1
10846.7	20°	9480.3	8138.0	6368.4	5760.4	5552.8	5447.4	5381.2	5309.0	5251.8	5218.7
11496.8	22.5°	9964.9	8417.9	6407.5	5748.4	5498.6	5354.1	5233.7	5149.5	5062.2	5005.0
12152.9	25°	10437.4	8661.7	6404.5	5685.2	5393.2	5209.7	5056.2	4947.8	4827.4	4767.2
12830.0	27.5°	10891.8	8881.4	6329.2	5573.8	5242.8	5038.1	4854.5	4725.1	4607.7	4550.5
13513.2	30°	11361.3	9065.0	6211.9	5411.3	5065.2	4839.5	4637.8	4526.5	4421.1	4367.0
14235.5	32.5°	11827.8	9233.5	6046.3	5209.7	4860.5	4643.8	4445.2	4342.9	4279.7	4279.7
15012.0	35°	12321.4	9350.9	5826.6	4974.9	4643.8	4436.2	4279.7	4219.5	4213.5	4177.4
15833.6	37.5°	12842.1	9426.1	5558.8	4734.1	4430.2	4234.5	4186.4	4114.2	4054.0	3975.7
16736.5	40°	13389.8	9501.4	5236.7	4484.3	4204.4	4096.1	4075.0	3978.7	3807.2	3614.6
17759.8	42.5°	14054.9	9552.5	4902.7	4234.5	3966.7	3930.6	3960.7	3795.1	3521.3	3376.8
18993.7	45°	14825.4	9636.8	4595.7	3987.7	3722.9	3722.9	3849.3	3632.6	3406.9	3316.6
20402.2	47.5°	15824.6	9832.4	4309.8	3716.9	3497.2	3557.4	3602.5	3437.0	3310.6	3199.2
22117.7	50°	17269.2	10301.9	4014.8	3443.0	3325.6	3446.0	3382.8	3286.5	3139.0	3048.7
24844.4	52.5°	19062.9	10578.8	3753.0	3196.2	3178.2	3298.5	3208.3	3118.0	3006.6	2886.2
26912.0	55°	20284.9	10630.0	3533.3	3015.6	3078.8	3066.8	3033.7	2952.4	2892.2	2732.7
28952.6	57.5°	21651.2	10732.3	3352.7	2907.3	3015.6	2883.2	2871.2	2802.0	2723.7	2615.4
31441.5	60°	23285.4	10891.8	3196.2	2865.2	2961.5	2762.8	2702.6	2675.6	2597.3	2543.1
34436.1	62.5°	25067.1	11036.3	3036.7	2871.2	2898.3	2645.5	2555.2	2546.1	2498.0	2479.9
37247.1	65°	26283.0	10642.0	2838.1	2865.2	2798.9	2525.1	2410.7	2407.7	2368.6	2362.6
38466.0	67.5°	25858.7	9393.0	2570.2	2780.9	2696.6	2404.7	2278.3	2266.2	2215.1	2218.1
37192.9	70°	23733.9	7611.3	2200.0	2573.2	2570.2	2296.3	2139.8	2100.7	2031.5	2043.5
32338.4	72.5°	19749.1	5640.0	1703.4	2227.1	2368.6	2197.0	1980.3	1917.1	1829.9	1841.9
23872.3	75°	14262.6	3834.3	1240.0	1694.4	2061.6	2079.6	1823.8	1715.5	1610.1	1628.2
13287.5	77.5°	7298.3	2172.9	911.9	1167.7	1619.2	1890.0	1682.4	1537.9	1513.8	1682.4
3831.2	80°	2380.6	1089.5	632.0	818.6	1062.4	1546.9	1474.7	1309.2	1303.2	1342.3
803.6	82.5°	710.3	460.5	406.3	538.7	586.9	1185.8	1273.1	990.2	851.7	896.9
267.9	85°	243.8	222.7	231.7	267.9	279.9	695.2	890.8	656.1	620.0	683.2
60.2	87.5°	57.2	78.3	66.2	60.2	60.2	168.5	346.1	273.9	379.2	252.8
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>
6840.9
5408.3
4914.7
4980.9
5149.5
5293.9
5375.2
5363.1
5230.7
5008.0
4767.2
4547.5
4364.0
4282.7
4168.3
3963.7
3587.5
3379.8
3331.7
3196.2
3039.7
2862.2
2735.7
2579.2
2558.2
2479.9
2359.5
2218.1
2055.6
1838.9
1634.2
1658.3
1152.7
927.0
674.2
243.8
0.0

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