

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: P957131

Luminaire Tested: **GALN-SB9C-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-827-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60111 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

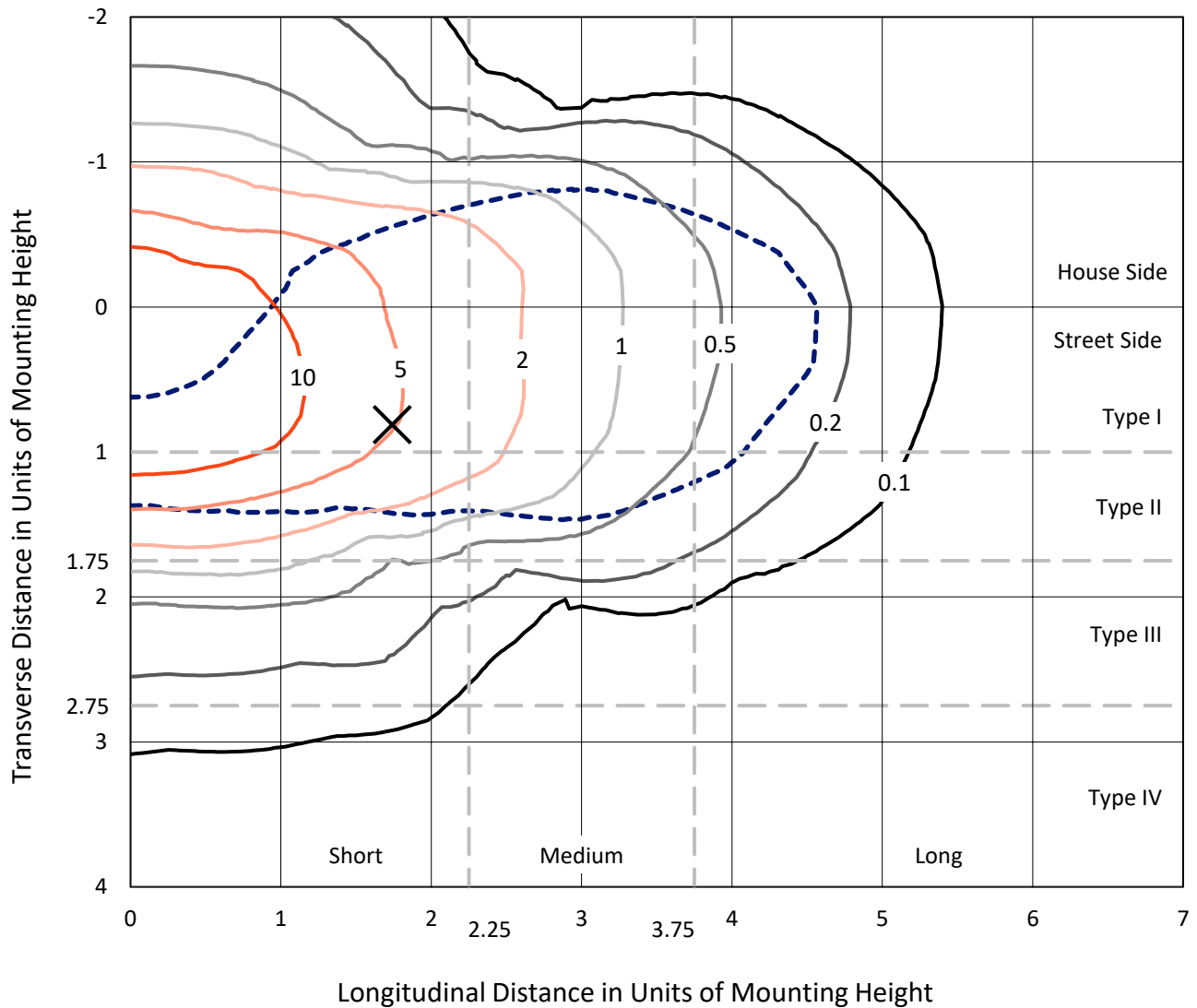
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

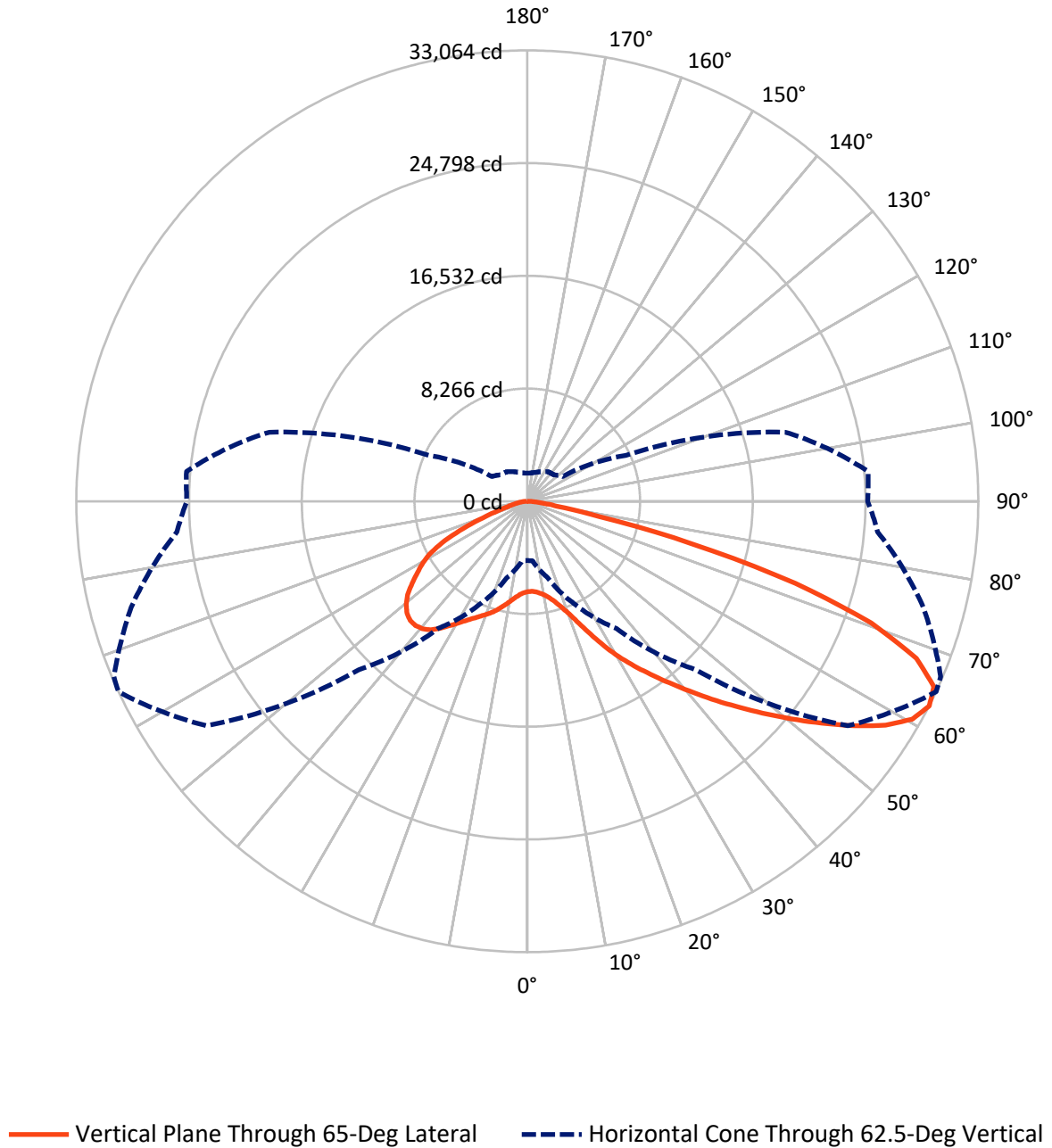
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SB9C-827-U-T2U

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18968.4	0.0	18968.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	41142.6	0.0	41142.6
	% Fixture	68.4	0.0	68.4
Total	Lumens	60111.0	0.0	60111.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	660.4	1.1
10°-20°	2239.5	3.7
20°-30°	4540.8	7.6
30°-40°	7857.8	13.1
40°-50°	11891.2	19.8
50°-60°	13941.7	23.2
60°-70°	11688.4	19.4
70°-80°	6453.0	10.7
80°-90°	838.2	1.4
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°	60111.0	100.0
0°-180°	60111.0	100.0

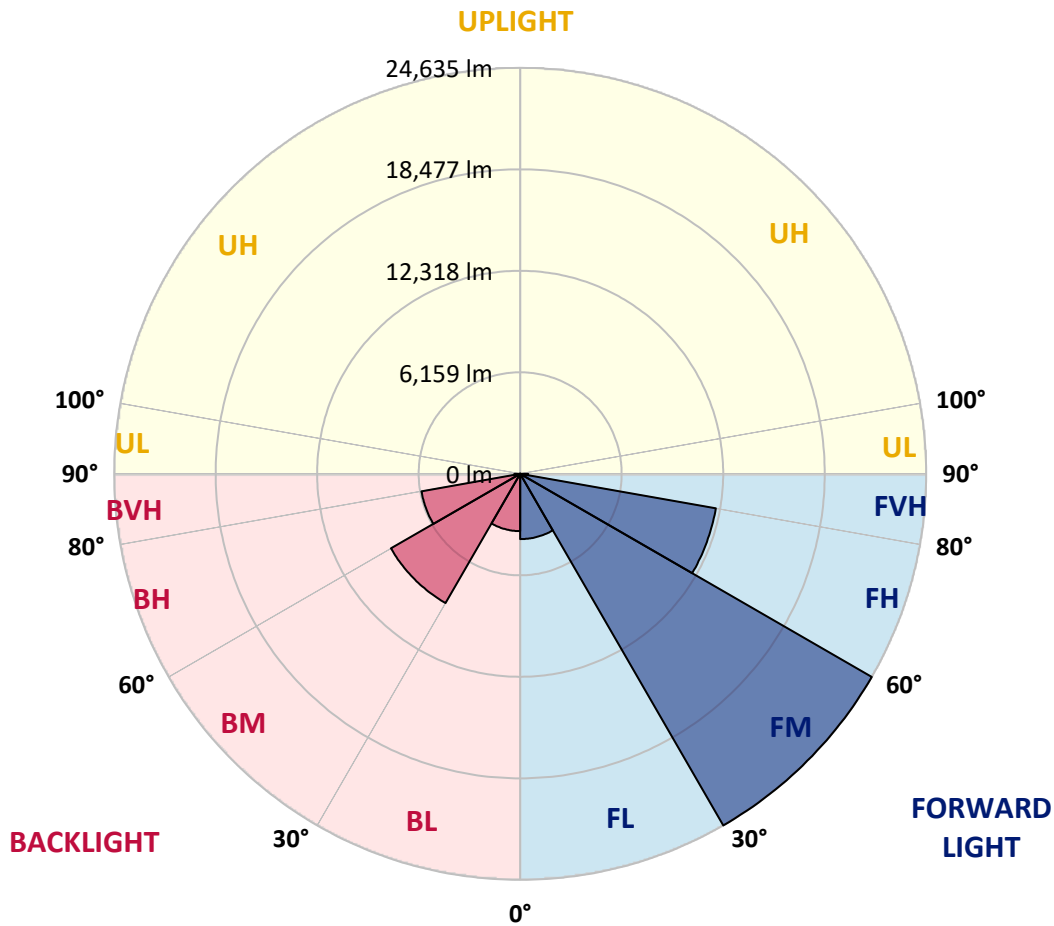


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3962.1	6.6			
FM (30°-60°)	24635.4	41.0			
FH (60°-80°)	12056.5	20.1			G5
FVH (80°-90°)	488.5	0.8			G3/500
BL (0°-30°)	3478.6	5.8	B4/5000		
BM (30°-60°)	9055.2	15.1	B5		
BH (60°-80°)	6084.9	10.1	B5		G5
BVH (80°-90°)	349.7	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	6624.0	6624.0	6624.0	6624.0	6624.0	6624.0	6624.0	6624.0	6624.0	6624.0
2.5°	6580.3	6561.6	6577.2	6577.2	6583.4	6580.3	6602.1	6608.4	6617.7	6636.4
5°	6514.8	6511.7	6539.8	6564.7	6589.7	6611.5	6639.6	6680.1	6686.3	6708.2
7.5°	6493.0	6474.3	6517.9	6549.1	6608.4	6661.4	6736.2	6804.9	6832.9	6842.3
10°	6661.4	6630.2	6670.8	6689.5	6739.4	6792.4	6879.7	6988.9	7020.0	7057.5
12.5°	6948.3	6914.0	6973.3	7001.3	7048.1	7094.9	7154.1	7260.2	7275.8	7344.4
15°	7341.3	7300.7	7338.1	7372.4	7450.4	7494.1	7553.3	7656.2	7656.2	7709.3
17.5°	7874.5	7821.5	7849.6	7862.1	7912.0	7977.5	8077.3	8167.7	8214.5	8195.8
20°	8669.8	8604.3	8604.3	8541.9	8523.2	8576.2	8707.2	8832.0	8881.9	8785.2
22.5°	9864.2	9770.7	9717.7	9505.6	9421.4	9427.6	9558.6	9711.4	9752.0	9580.4
25°	11383.0	11236.4	11164.7	10852.8	10662.6	10497.3	10600.2	10796.7	10852.8	10640.8
27.5°	12901.8	12911.1	12842.5	12468.3	12153.3	11850.8	11797.8	12003.6	12062.9	11822.7
30°	15031.8	14810.4	14679.4	14230.3	13781.2	13357.1	13138.8	13223.0	13238.6	12951.7
32.5°	16868.7	16812.5	16531.9	16138.9	15562.0	14897.7	14532.8	14398.7	14373.8	13965.2
35°	18961.3	18930.1	18633.8	18166.0	17542.3	16619.2	15961.2	15577.6	15546.4	14972.5
37.5°	21088.2	21088.2	20798.1	20286.7	19641.1	18487.2	17486.2	16878.0	16778.2	16029.8
40°	22784.7	22681.8	22734.8	22519.6	21780.5	20554.9	19179.6	18297.0	18162.9	17264.7
42.5°	23748.4	23714.1	24032.2	24272.3	23969.8	22990.5	21044.5	19834.5	19647.4	18624.5
45°	23963.6	23926.1	24493.7	25373.2	25797.3	25395.0	23071.6	21453.1	21225.4	20046.6
47.5°	23467.7	23392.8	24225.5	25613.3	26973.0	27681.0	25267.1	23208.8	22878.3	21431.2
50°	21977.0	21905.3	23165.2	25008.3	27369.1	29234.0	27649.8	25070.7	24565.5	22915.7
52.5°	18736.7	18771.0	20745.1	23277.5	26848.3	30200.8	29701.8	27032.3	26424.2	24434.5
55°	14595.2	14670.0	17096.3	19884.4	24765.0	30054.2	31102.1	29053.2	28448.1	25862.8
57.5°	10450.5	10781.1	13054.6	15814.6	20763.8	27730.9	31407.7	30974.2	30387.9	27422.1
60°	6773.7	6832.9	9171.9	11953.7	15811.5	23601.8	30787.1	32430.6	31972.2	29012.6
62.5°	4341.1	4381.7	5806.9	8361.0	11379.9	17461.2	28697.6	33063.7	32923.4	30063.6
65°	3190.4	3159.2	3901.4	5526.2	7665.6	10768.6	24640.3	32758.1	33035.7	30721.6
67.5°	2663.3	2619.6	2984.5	3826.6	5647.8	6115.6	18231.5	30771.5	31788.2	30646.8
70°	2426.3	2388.9	2610.3	2841.1	4406.6	4094.8	9190.6	26751.6	28317.2	29795.4
72.5°	2055.2	1989.7	2292.2	2523.0	3427.4	3140.5	3798.5	20548.7	22457.3	27066.6
75°	1593.6	1550.0	1808.8	2220.5	2576.0	2451.2	2401.3	12477.6	14560.9	20932.2
77.5°	1263.0	1203.8	1440.8	1730.8	2317.1	1849.3	1749.6	5373.4	7437.9	13363.3
80°	951.2	898.2	1094.6	1369.1	1780.7	1394.0	1132.1	2192.4	2803.6	6770.5
82.5°	676.7	630.0	764.1	1004.2	1197.6	1250.6	695.5	1228.7	1381.6	2610.3
85°	433.5	405.4	511.5	630.0	760.9	804.6	424.1	642.4	704.8	1075.9
87.5°	237.0	193.4	274.4	293.2	352.4	321.2	202.7	233.9	252.6	389.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P957131
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6624.0	0°	6624.0	6624.0	6624.0	6624.0	6624.0	6624.0	6624.0	6624.0	6624.0	6624.0
6636.4	2.5°	6648.9	6658.3	6689.5	6698.8	6720.6	6748.7	6767.4	6786.1	6786.1	6804.9
6736.2	5°	6739.4	6761.2	6826.7	6861.0	6917.1	6973.3	7007.6	7048.1	7073.1	7085.5
6895.3	7.5°	6914.0	6948.3	7041.9	7101.1	7197.8	7275.8	7328.8	7384.9	7397.4	7431.7
7116.7	10°	7151.0	7191.6	7297.6	7409.9	7525.3	7621.9	7671.8	7712.4	7728.0	7734.2
7400.5	12.5°	7422.3	7481.6	7618.8	7756.0	7877.7	7961.9	7974.3	7965.0	7921.3	7883.9
7749.8	15°	7756.0	7809.1	7961.9	8111.6	8230.1	8245.7	8167.7	8117.8	8064.8	8055.4
8139.6	17.5°	8155.2	8183.3	8323.6	8470.2	8479.6	8426.5	8311.2	8264.4	8214.5	8180.2
8648.0	20°	8619.9	8610.5	8710.3	8772.7	8707.2	8545.0	8370.4	8292.4	8242.5	8202.0
9271.7	22.5°	9175.0	9103.3	9090.8	9075.2	8900.6	8560.6	8323.6	8223.8	8145.9	8089.7
10141.8	25°	9982.7	9708.3	9518.1	9412.0	9019.1	8476.4	8173.9	7952.5	7805.9	7709.3
11205.2	27.5°	10993.2	10531.6	10051.3	9792.5	9019.1	8304.9	7812.2	7453.5	7213.4	7113.6
12234.4	30°	11956.8	11473.4	10765.5	10250.9	8997.2	8024.2	7229.0	6730.0	6449.3	6349.5
13113.8	32.5°	12780.1	12253.1	11523.3	10753.0	8944.2	7568.9	6505.5	5953.5	5682.1	5563.6
13983.9	35°	13544.2	12982.9	12284.3	11305.0	8803.9	6901.5	5710.2	5289.2	4986.7	4796.5
14869.6	37.5°	14327.0	13659.6	13004.7	11804.0	8551.3	6121.9	5099.0	4740.3	4384.8	4129.1
15811.5	40°	15178.4	14380.0	13775.0	12100.3	8136.5	5379.6	4624.9	4297.5	3920.1	3648.8
16896.7	42.5°	16173.2	15243.9	14632.6	12253.1	7568.9	4852.6	4316.2	3995.0	3639.4	3418.0
18060.0	45°	17211.7	16195.0	15415.4	12250.0	6935.8	4606.2	4216.4	3898.3	3505.3	3274.6
19254.4	47.5°	18300.1	17189.9	16092.1	12050.4	6387.0	4640.5	4160.3	3689.3	3255.9	3031.3
20461.3	50°	19391.6	18278.3	16747.0	11676.2	6153.1	4565.7	3951.3	3396.2	2884.7	2682.0
21593.4	52.5°	20473.8	19435.3	17311.5	11142.9	5916.0	4288.1	3683.1	3015.7	2731.9	2591.6
22762.9	55°	21562.2	20579.8	17925.9	10366.3	5323.5	3963.8	3234.0	2872.3	2610.3	2482.4
23907.4	57.5°	22653.7	21902.1	18509.1	9589.8	4578.1	3564.6	2987.6	2697.6	2488.7	2379.5
24864.8	60°	23788.9	23414.7	19111.0	8875.6	3842.2	3053.1	2806.8	2557.3	2345.2	2223.6
25784.8	62.5°	24958.4	25080.0	19581.9	7955.6	3165.4	2741.3	2644.6	2388.9	2183.0	2067.7
26545.8	65°	26137.2	26686.1	19890.6	6680.1	2566.6	2445.0	2470.0	2204.9	1995.9	1896.1
27104.0	67.5°	27026.1	27843.1	19803.3	5055.3	2105.1	2164.3	2251.7	2011.5	1815.0	1737.1
27013.6	70°	27125.8	27705.9	18942.6	3461.7	1762.0	1889.9	2008.4	1821.3	1618.6	1562.4
25741.2	72.5°	25797.3	25834.7	16544.3	2261.0	1490.7	1659.1	1752.7	1627.9	1431.5	1375.3
22519.6	75°	22313.8	21365.7	12147.1	1490.7	1247.5	1425.2	1512.5	1425.2	1235.0	1247.5
16850.0	77.5°	16906.1	15131.6	7375.6	1060.3	1041.6	1197.6	1316.1	1253.7	1091.5	1225.6
8473.3	80°	8710.3	8186.4	3290.2	792.1	823.3	957.4	1082.2	1001.1	863.9	823.3
1893.0	82.5°	1995.9	2320.3	1297.4	567.6	595.7	689.2	826.4	751.6	620.6	523.9
789.0	85°	698.6	764.1	573.8	355.5	349.3	430.4	561.4	502.1	421.0	336.8
333.7	87.5°	221.4	290.0	215.2	143.5	149.7	193.4	258.8	237.0	196.5	127.9
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>
6624.0
6804.9
7091.8
7419.2
7718.6
7883.9
8055.4
8183.3
8205.1
8108.4
7746.7
7163.5
6408.8
5622.9
4858.8
4197.7
3701.8
3461.7
3312.0
3062.5
2694.5
2591.6
2470.0
2360.8
2214.2
2064.5
1893.0
1740.2
1565.6
1372.2
1203.8
1079.0
751.6
517.7
355.5
134.1
0.0

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