

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: P957501

Luminaire Tested: **GALN-SB9D-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9D-830-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 81396 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

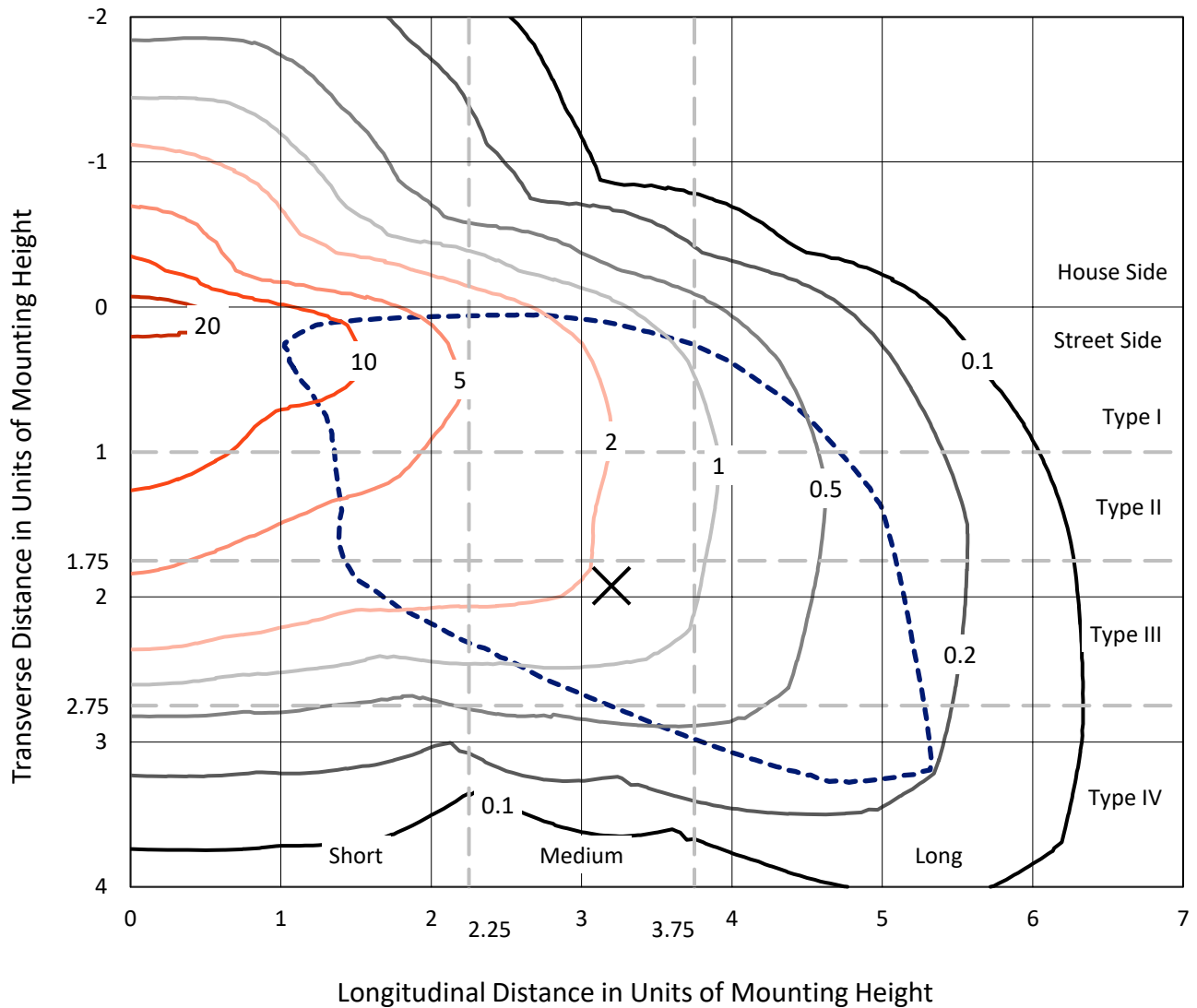
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

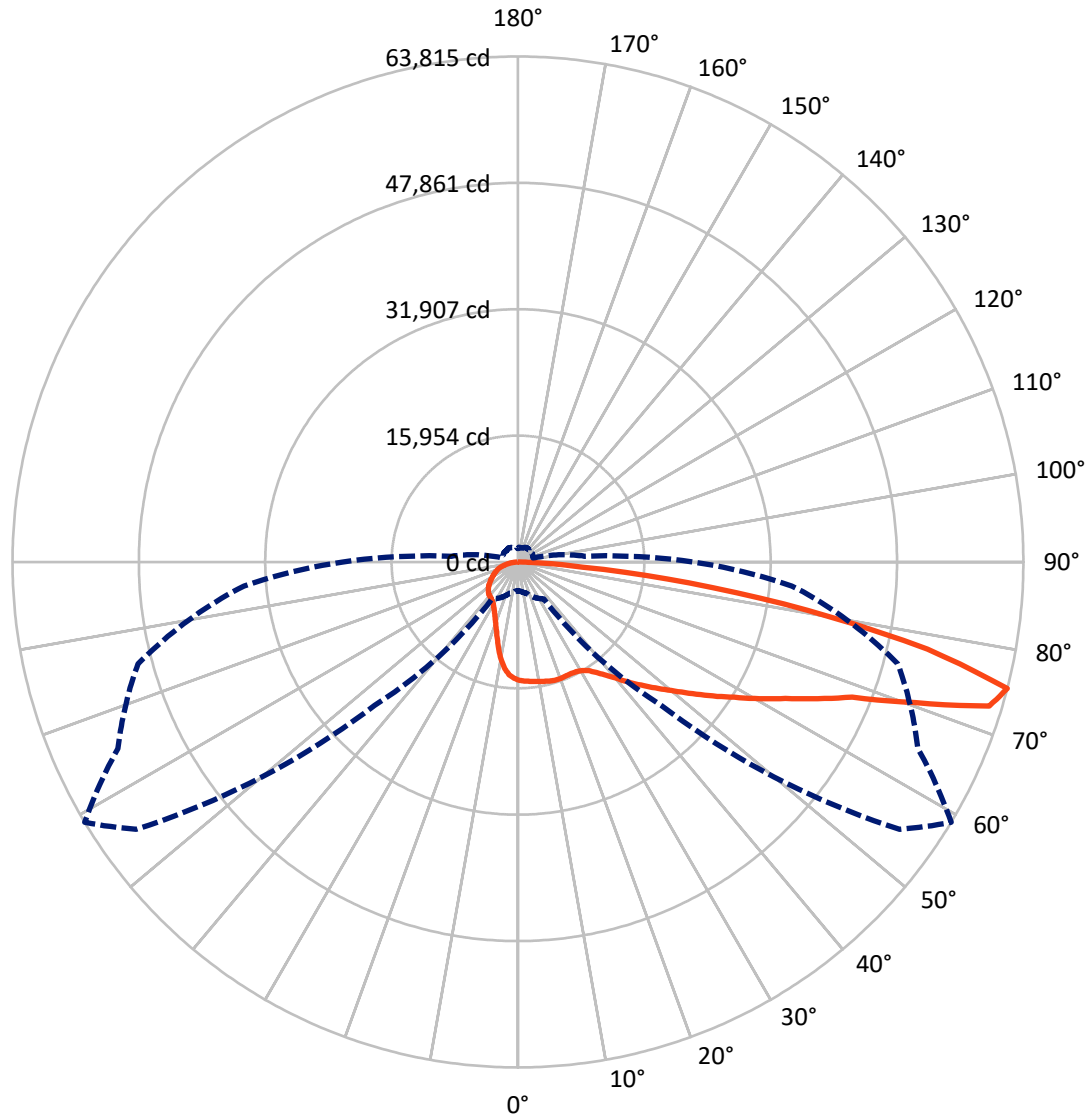
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15266.4	0.0	15266.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	66129.6	0.0	66129.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	81396.0	0.0	81396.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1339.6	1.6
10°-20°	3424.1	4.2
20°-30°	5201.0	6.4
30°-40°	7731.2	9.5
40°-50°	11497.6	14.1
50°-60°	15606.6	19.2
60°-70°	19053.1	23.4
70°-80°	14952.6	18.4
80°-90°	2590.2	3.2
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°	81396.0	100.0
0°-180°	81396.0	100.0

Coefficient of Utilization

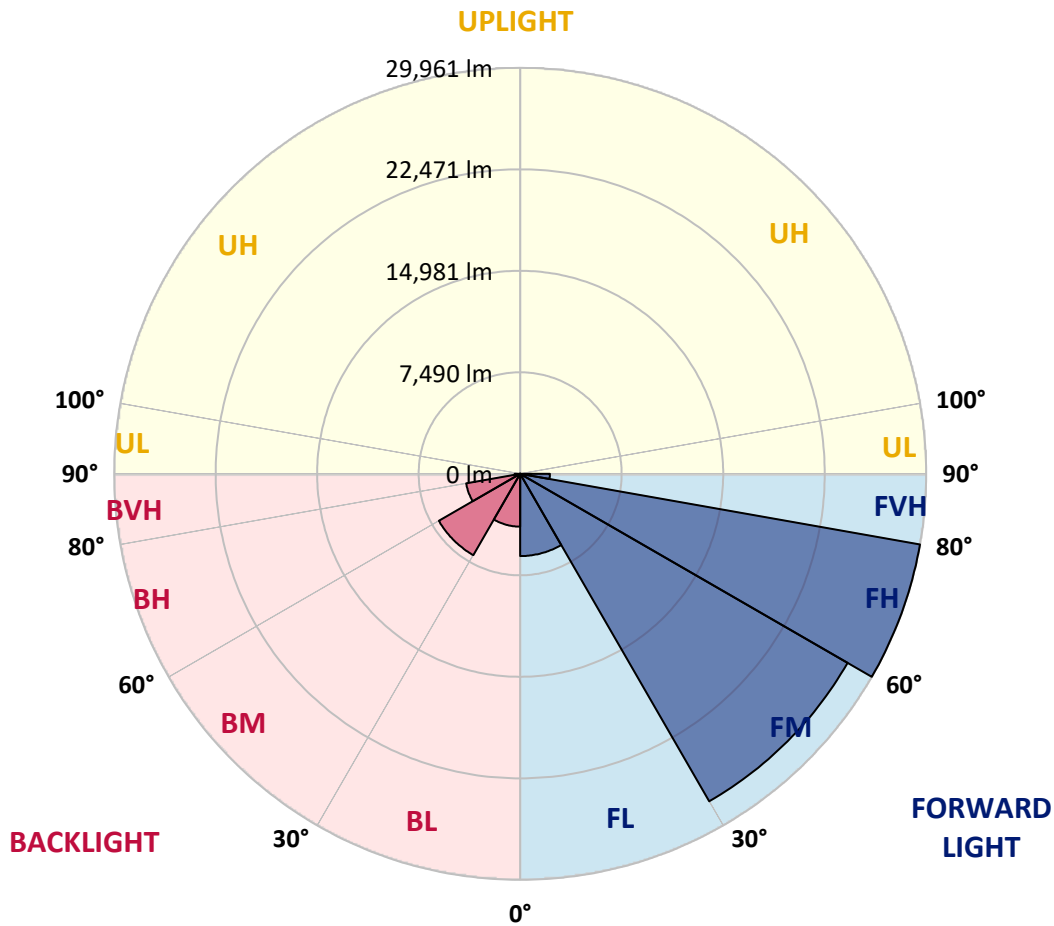


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6069.0	7.5			
FM (30°-60°)	27905.9	34.3			
FH (60°-80°)	29961.1	36.8			G5
FVH (80°-90°)	2193.7	2.7			G5
BL (0°-30°)	3895.8	4.8	B4/5000		
BM (30°-60°)	6929.4	8.5	B4/8500		
BH (60°-80°)	4044.7	5.0	B4/5000		G4/5000
BVH (80°-90°)	396.5	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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	14940.1	14940.1	14940.1	14940.1	14940.1	14940.1	14940.1	14940.1	14940.1	14940.1
2.5°	15067.0	15014.5	15067.0	15045.1	15036.4	15018.9	15023.2	15053.9	15036.4	15058.3
5°	14966.3	14935.7	14988.2	14975.1	15032.0	15040.8	15097.7	15132.7	15154.6	15159.0
7.5°	14799.9	14769.3	14843.7	14905.0	15027.6	15062.7	15180.9	15237.8	15268.5	15321.0
10°	14191.3	14178.2	14362.1	14594.1	14883.1	15062.7	15242.2	15338.5	15386.7	15526.8
12.5°	13114.1	13131.7	13372.5	13819.1	14397.1	14975.1	15312.2	15452.4	15526.8	15701.9
15°	12085.2	12080.8	12343.5	12820.8	13630.8	14589.8	15347.3	15588.1	15715.1	15973.4
17.5°	11489.7	11472.1	11656.0	12019.5	12772.6	13998.6	15259.7	15662.5	15934.0	16258.0
20°	11380.2	11345.2	11441.5	11621.0	12155.2	13350.6	15032.0	15662.5	16109.2	16529.5
22.5°	11778.6	11721.7	11682.3	11660.4	11896.9	12816.4	14773.7	15610.0	16367.5	16919.2
25°	12579.9	12492.4	12291.0	12093.9	12023.9	12575.6	14546.0	15596.9	16752.8	17444.7
27.5°	13876.0	13766.6	13359.4	12886.5	12461.7	12698.2	14445.3	15675.7	17177.6	18000.8
30°	15483.0	15364.8	14852.5	14125.6	13363.7	13153.6	14572.2	15907.7	17720.5	18740.7
32.5°	16923.6	16792.2	16354.4	15614.4	14585.4	13941.7	14975.1	16350.0	18574.4	19769.7
35°	18202.2	18048.9	17654.8	16971.8	16082.9	15049.5	15701.9	17133.8	19787.3	21442.4
37.5°	19454.5	19274.9	18845.8	18123.4	17501.6	16525.1	16704.7	18140.9	21398.6	23474.1
40°	20855.7	20597.3	20076.2	19362.5	18758.3	18254.7	18022.6	19375.7	23036.2	25742.3
42.5°	22213.0	21967.8	21346.1	20737.4	19979.9	19835.4	19550.8	20820.6	24827.1	28233.7
45°	23675.5	23382.1	22629.0	21858.4	21381.1	20886.3	21030.8	22265.6	26583.0	30773.4
47.5°	25046.0	24717.6	23828.8	22970.6	22707.8	21770.8	22388.2	23855.0	28408.9	33348.0
50°	25786.0	25462.0	24722.0	23947.0	23741.2	22861.1	23859.4	25602.1	30322.4	35913.9
52.5°	26403.4	26053.1	25085.5	24656.3	24595.0	24047.7	25672.2	27598.8	32235.8	38182.1
55°	27060.2	26670.5	25435.7	25050.4	25330.7	25378.8	27822.1	29862.6	34258.8	40393.3
57.5°	27817.8	27323.0	25772.9	25383.2	26048.8	26937.6	30291.7	32209.6	36246.7	42442.5
60°	28531.5	28032.3	26421.0	25913.0	26823.8	28746.0	33124.7	35051.3	38497.4	44268.4
62.5°	28671.6	28260.0	26937.6	26933.3	27874.7	30856.6	36478.8	37919.4	40463.4	46072.5
65°	26245.8	25987.5	25203.7	26893.8	29380.9	33895.4	40213.8	41588.7	42963.6	47648.8
67.5°	19975.5	20010.6	19953.6	23215.8	28163.7	38260.9	45621.5	45516.4	46050.6	49417.8
70°	9133.9	9339.7	10679.6	16026.0	22563.3	38764.4	54562.7	53201.0	49925.7	51707.8
72.5°	4934.8	5092.4	5639.7	7763.4	13565.1	34464.6	61244.6	62212.3	55079.4	53249.1
75°	3621.2	3708.7	4089.7	4934.8	5696.7	25615.3	58849.5	63814.9	55723.1	49654.2
77.5°	2710.4	2749.8	3060.7	3910.2	2916.2	13503.8	47022.6	52850.7	47701.3	40796.2
80°	1966.0	2009.8	2241.9	2933.7	2044.8	4939.2	32288.4	37096.2	32669.3	26005.0
82.5°	1357.4	1374.9	1475.6	1996.7	1427.4	1917.9	18320.4	21753.3	18237.2	9125.2
85°	818.8	840.7	884.5	1164.7	810.1	910.8	7907.9	8179.4	5451.5	2180.6
87.5°	337.2	359.1	394.1	490.4	319.6	254.0	1304.8	1637.6	1020.2	639.3
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°
14940.1	0°	14940.1	14940.1	14940.1	14940.1	14940.1	14940.1	14940.1	14940.1	14940.1	14940.1
14983.8	2.5°	14961.9	14931.3	14848.1	14734.3	14629.2	14497.8	14440.9	14392.7	14348.9	14265.7
15102.1	5°	15053.9	14970.7	14747.4	14458.4	14130.0	13770.9	13420.7	13179.8	12974.0	12820.8
15237.8	7.5°	15194.0	15036.4	14629.2	14038.0	13284.9	12514.3	11818.1	11323.3	10951.1	10815.3
15430.5	10°	15338.5	15150.2	14440.9	13398.8	12098.3	10911.7	9987.8	9479.8	9182.1	9085.8
15658.2	12.5°	15509.3	15233.4	14147.5	12509.9	10771.6	9471.1	8665.4	8367.7	8214.4	8161.9
15938.4	15°	15758.9	15303.5	13705.3	11397.7	9506.1	8420.2	7899.1	7693.3	7614.5	7610.1
16227.4	17.5°	15947.2	15316.6	13017.8	10206.7	8534.0	7785.3	7356.2	7277.4	7329.9	7408.7
16512.0	20°	16157.3	15198.4	12115.8	9120.8	7851.0	7229.2	7049.7	7102.2	7229.2	7343.0
16888.6	22.5°	16306.2	14983.8	11025.5	8275.7	7259.9	6909.6	6900.8	7010.3	7080.3	7137.2
17330.8	25°	16437.6	14620.4	9869.5	7566.4	6773.8	6716.9	6813.2	6778.2	6730.0	6778.2
17773.1	27.5°	16533.9	14046.8	8836.2	6944.6	6432.3	6585.5	6528.6	6449.8	6445.4	6471.7
18294.1	30°	16503.2	13280.5	7986.7	6353.5	6191.5	6340.3	6204.6	6191.5	6178.3	6191.5
19077.9	32.5°	16503.2	12409.2	7334.3	5946.2	6038.2	5981.3	5968.1	5937.5	5884.9	5880.6
20141.9	35°	16595.2	11537.8	6773.8	5727.3	5911.2	5775.5	5784.2	5709.8	5600.3	5547.8
21551.9	37.5°	16783.5	10837.2	6217.7	5622.2	5687.9	5683.5	5648.5	5521.5	5328.9	5162.5
23312.1	40°	17238.9	10631.4	5836.8	5574.1	5582.8	5635.4	5543.4	5298.2	4860.3	4588.9
25098.6	42.5°	17952.6	10977.3	5753.6	5455.8	5512.8	5565.3	5385.8	4816.5	4505.7	4343.7
26972.7	45°	18859.0	11581.6	5933.1	5285.1	5346.4	5438.3	4904.1	4632.6	4492.5	4496.9
28829.2	47.5°	20006.2	12216.5	6265.9	5136.2	5105.5	5158.1	4584.5	4418.1	4225.4	4273.6
30611.3	50°	21332.9	12860.2	6581.2	4934.8	4838.4	4667.7	4378.7	4221.0	3975.8	3862.0
32332.2	52.5°	22769.1	13482.0	6708.1	4689.6	4549.4	4352.4	4238.6	4045.9	3748.1	3559.9
33956.7	55°	24130.9	14046.8	6568.0	4396.2	4260.5	4107.2	4089.7	3971.5	3651.8	3389.1
35401.6	57.5°	25418.2	14519.7	6217.7	4098.4	3967.1	3875.1	3993.4	3936.4	3533.6	3196.4
36767.8	60°	26508.5	14843.7	5709.8	3796.3	3704.4	3656.2	3835.7	3818.2	3367.2	2990.6
37993.8	62.5°	27375.5	14970.7	5149.3	3507.3	3485.4	3397.9	3616.8	3616.8	3157.0	2789.2
39071.0	65°	28054.2	14848.1	4580.1	3222.7	3266.5	3135.1	3349.7	3323.4	2933.7	2609.7
40310.1	67.5°	28654.1	14445.3	3949.6	2942.5	3043.2	2876.8	3069.5	3008.2	2688.5	2430.2
41382.9	70°	28921.2	13508.2	3231.5	2662.2	2784.8	2622.8	2789.2	2675.4	2412.7	2237.5
40205.0	72.5°	26775.6	11226.9	2544.0	2368.9	2474.0	2342.6	2487.1	2355.7	2114.9	2036.1
34718.5	75°	22151.7	8424.6	1957.3	2049.2	2128.0	2027.3	2123.7	2027.3	1808.4	1865.3
25645.9	77.5°	16087.3	5687.9	1497.5	1712.1	1747.1	1694.5	1777.7	1668.3	1471.2	1458.1
12781.4	80°	7999.8	3332.2	1173.5	1353.0	1339.9	1304.8	1401.2	1348.6	1182.2	1252.3
3450.4	82.5°	2316.3	1427.4	853.8	950.2	923.9	932.7	1002.7	1029.0	1541.3	1528.2
1072.8	85°	726.9	560.5	512.3	529.8	503.5	516.7	591.1	1173.5	1085.9	634.9
332.8	87.5°	188.3	192.7	127.0	135.7	140.1	166.4	188.3	713.7	341.5	223.3
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>
14940.1
14226.3
12693.8
10578.9
8936.9
8175.0
7627.7
7439.4
7382.5
7167.9
6808.8
6515.5
6239.6
5937.5
5600.3
5219.4
4623.9
4343.7
4518.8
4396.2
3892.6
3555.5
3389.1
3178.9
2977.5
2776.1
2592.2
2412.7
2202.5
1970.4
1703.3
1392.4
1239.2
1563.2
687.5
236.4
0.0

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