

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: P950298

Luminaire Tested: **GALN-SB4D-750-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950298
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-SB4D-750-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 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: 42169 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

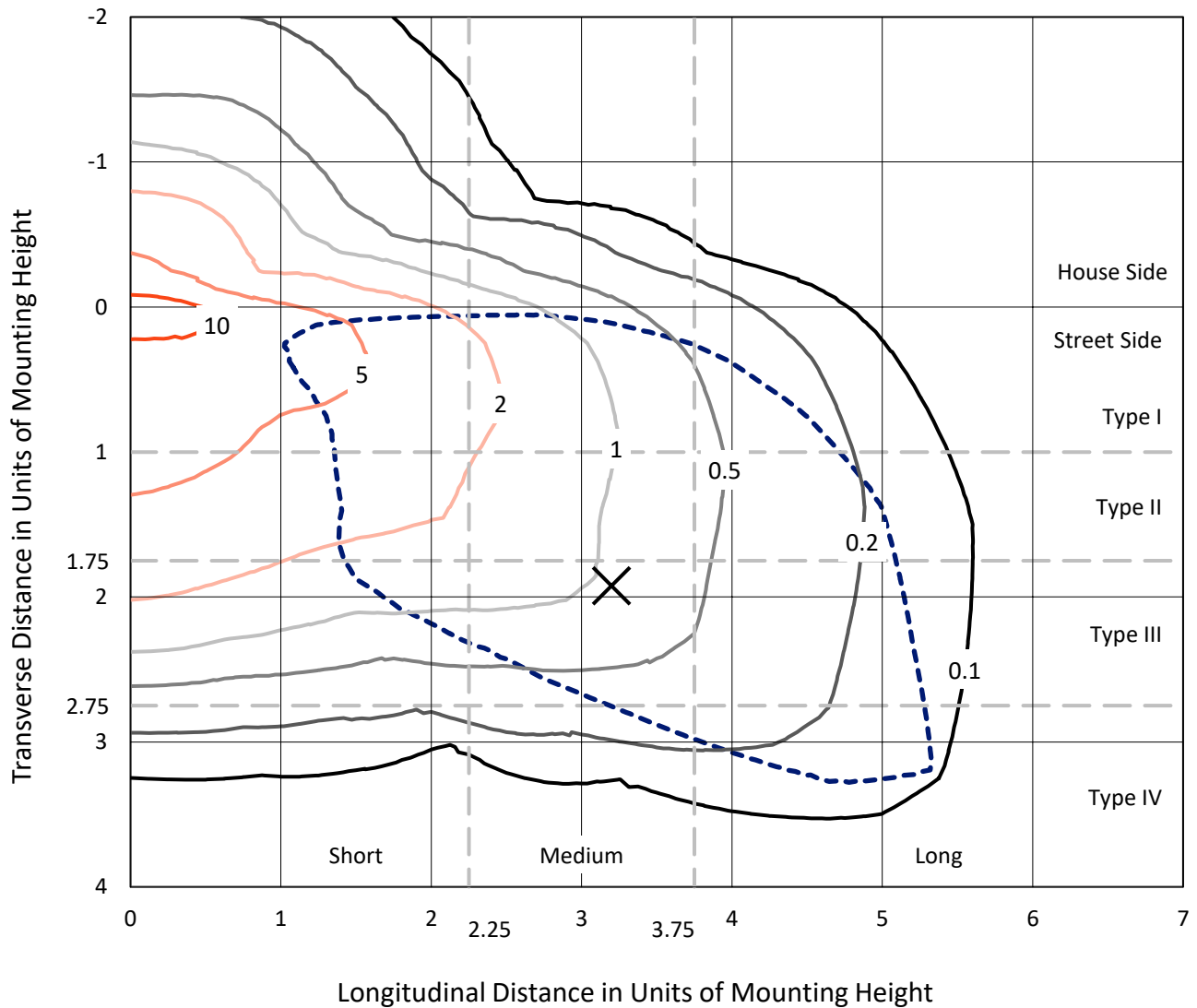
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

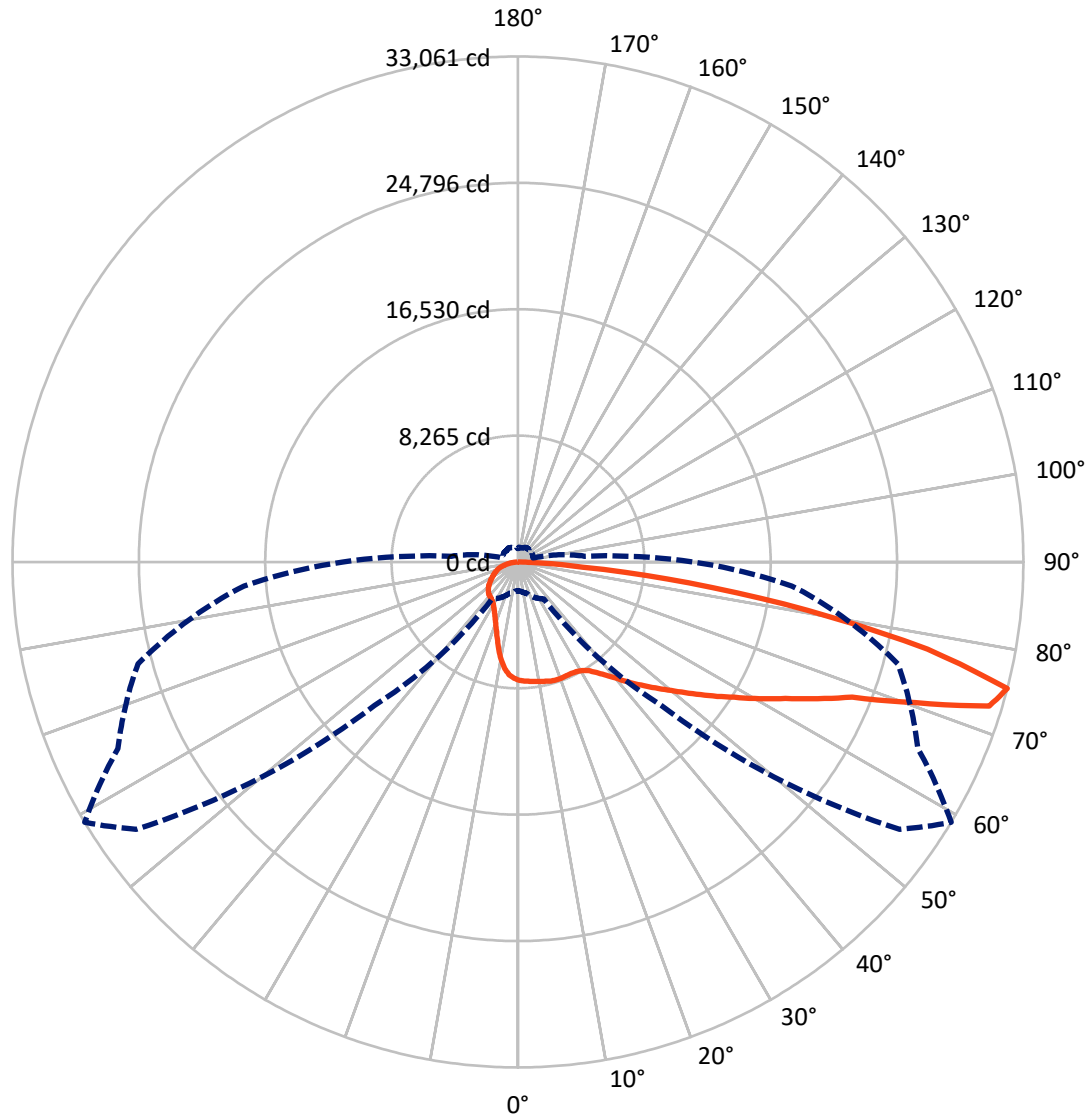
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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	7909.1	0.0	7909.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	34259.9	0.0	34259.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	42169.0	0.0	42169.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	694.0	1.6
10°-20°	1774.0	4.2
20°-30°	2694.5	6.4
30°-40°	4005.3	9.5
40°-50°	5956.6	14.1
50°-60°	8085.4	19.2
60°-70°	9870.9	23.4
70°-80°	7746.5	18.4
80°-90°	1341.9	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°	42169.0	100.0
0°-180°	42169.0	100.0

Coefficient of Utilization



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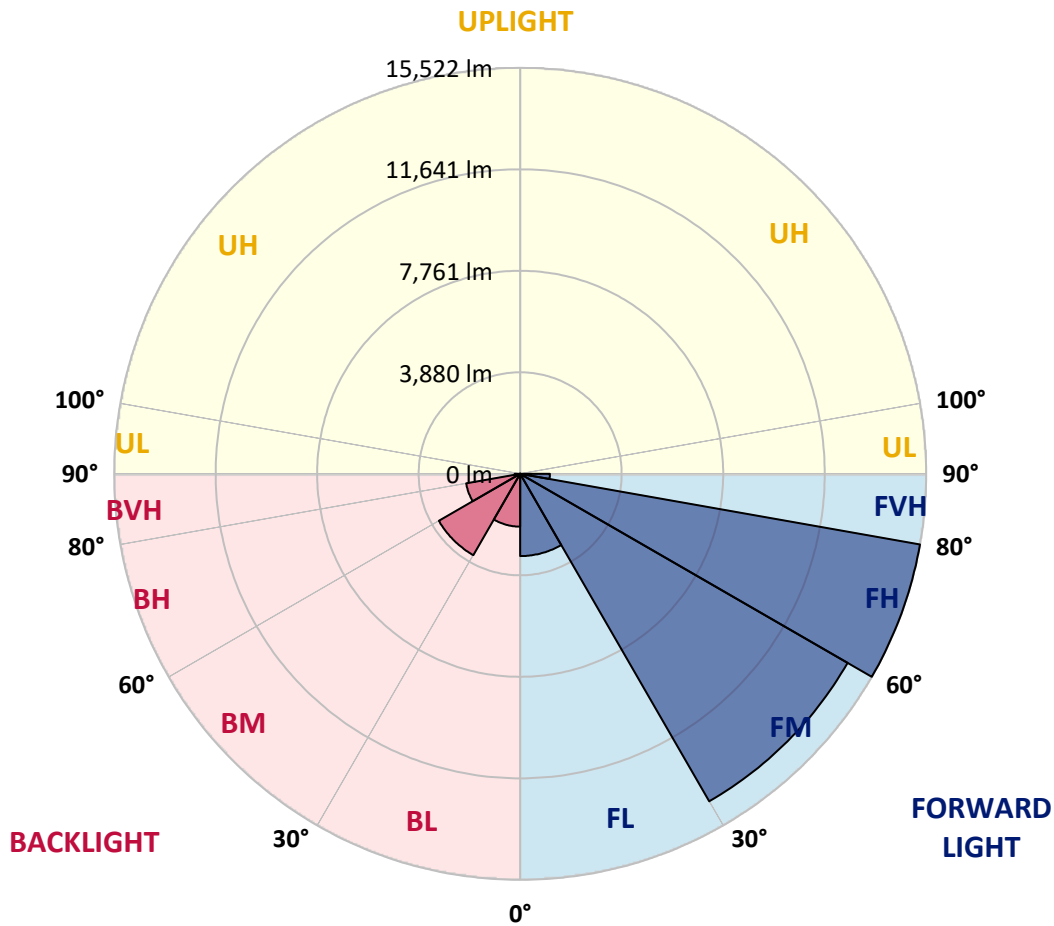
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3144.2	7.5			
FM (30°-60°)	14457.3	34.3			
FH (60°-80°)	15522.0	36.8			G5
FVH (80°-90°)	1136.5	2.7			G5
BL (0°-30°)	2018.3	4.8	B3/2500		
BM (30°-60°)	3589.9	8.5	B3/5000		
BH (60°-80°)	2095.4	5.0	B3/2500		G3/2500
BVH (80°-90°)	205.4	0.5			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	7740.0	7740.0	7740.0	7740.0	7740.0	7740.0	7740.0	7740.0	7740.0	7740.0
2.5°	7805.8	7778.6	7805.8	7794.5	7789.9	7780.9	7783.1	7799.0	7789.9	7801.3
5°	7753.6	7737.8	7765.0	7758.2	7787.7	7792.2	7821.7	7839.8	7851.2	7853.4
7.5°	7667.4	7651.6	7690.1	7721.9	7785.4	7803.5	7864.8	7894.3	7910.2	7937.4
10°	7352.1	7345.3	7440.6	7560.8	7710.5	7803.5	7896.6	7946.5	7971.4	8044.0
12.5°	6794.1	6803.1	6927.9	7159.3	7458.7	7758.2	7932.8	8005.4	8044.0	8134.7
15°	6261.0	6258.7	6394.8	6642.1	7061.8	7558.5	7951.0	8075.8	8141.5	8275.4
17.5°	5952.5	5943.4	6038.7	6227.0	6617.1	7252.3	7905.6	8114.3	8255.0	8422.8
20°	5895.8	5877.6	5927.5	6020.5	6297.3	6916.6	7787.7	8114.3	8345.7	8563.5
22.5°	6102.2	6072.7	6052.3	6040.9	6163.4	6639.8	7653.8	8087.1	8479.5	8765.4
25°	6517.3	6472.0	6367.6	6265.5	6229.2	6515.1	7535.9	8080.3	8679.2	9037.6
27.5°	7188.8	7132.1	6921.1	6676.1	6456.1	6578.6	7483.7	8121.1	8899.2	9325.7
30°	8021.3	7960.1	7694.7	7318.1	6923.4	6814.5	7549.5	8241.4	9180.5	9709.1
32.5°	8767.6	8699.6	8472.7	8089.4	7556.3	7222.8	7758.2	8470.5	9622.9	10242.2
35°	9430.0	9350.6	9146.5	8792.6	8332.1	7796.7	8134.7	8876.5	10251.2	11108.7
37.5°	10078.8	9985.8	9763.5	9389.2	9067.1	8561.2	8654.2	9398.3	11086.0	12161.3
40°	10804.7	10670.9	10400.9	10031.2	9718.1	9457.3	9337.0	10038.0	11934.4	13336.3
42.5°	11508.0	11380.9	11058.8	10743.5	10351.0	10276.2	10128.7	10786.6	12862.2	14627.1
45°	12265.6	12113.6	11723.5	11324.2	11076.9	10820.6	10895.5	11535.2	13771.9	15942.8
47.5°	12975.7	12805.5	12345.0	11900.4	11764.3	11278.8	11598.7	12358.6	14717.8	17276.7
50°	13359.0	13191.2	12807.8	12406.3	12299.7	11843.7	12360.9	13263.8	15709.2	18606.0
52.5°	13678.9	13497.4	12996.1	12773.8	12742.0	12458.4	13300.1	14298.2	16700.5	19781.1
55°	14019.2	13817.3	13177.6	12977.9	13123.1	13148.1	14413.9	15471.0	17748.5	20926.7
57.5°	14411.6	14155.3	13352.2	13150.3	13495.1	13955.6	15693.3	16686.9	18778.4	21988.3
60°	14781.4	14522.8	13688.0	13424.8	13896.7	14892.5	17161.0	18159.1	19944.4	22934.3
62.5°	14854.0	14640.7	13955.6	13953.4	14441.1	15985.9	18898.6	19645.0	20962.9	23868.9
65°	13597.2	13463.4	13057.3	13933.0	15221.4	17560.2	20833.6	21545.9	22258.2	24685.5
67.5°	10348.8	10366.9	10337.4	12027.4	14590.8	19821.9	23635.2	23580.8	23857.5	25602.0
70°	4732.0	4838.7	5532.8	8302.6	11689.4	20082.8	28267.4	27561.9	25865.1	26788.4
72.5°	2556.6	2638.2	2921.8	4022.0	7027.7	17855.1	31729.1	32230.4	28535.1	27586.9
75°	1876.0	1921.4	2118.8	2556.6	2951.3	13270.6	30488.3	33060.7	28868.6	25724.5
77.5°	1404.2	1424.6	1585.7	2025.7	1510.8	6996.0	24361.1	27380.5	24712.7	21135.4
80°	1018.5	1041.2	1161.5	1519.9	1059.4	2558.8	16727.7	19218.5	16925.1	13472.5
82.5°	703.2	712.3	764.5	1034.4	739.5	993.6	9491.3	11269.8	9448.2	4727.5
85°	424.2	435.5	458.2	603.4	419.7	471.8	4096.9	4237.5	2824.2	1129.7
87.5°	174.7	186.0	204.2	254.1	165.6	131.6	676.0	848.4	528.6	331.2
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°
7740.0	0°	7740.0	7740.0	7740.0	7740.0	7740.0	7740.0	7740.0	7740.0	7740.0	7740.0
7762.7	2.5°	7751.4	7735.5	7692.4	7633.4	7579.0	7510.9	7481.4	7456.5	7433.8	7390.7
7824.0	5°	7799.0	7755.9	7640.2	7490.5	7320.4	7134.3	6952.9	6828.1	6721.5	6642.1
7894.3	7.5°	7871.6	7789.9	7579.0	7272.7	6882.5	6483.3	6122.6	5866.3	5673.4	5603.1
7994.1	10°	7946.5	7848.9	7481.4	6941.5	6267.8	5653.0	5174.4	4911.2	4757.0	4707.1
8112.1	12.5°	8034.9	7892.0	7329.4	6481.0	5580.4	4906.7	4489.3	4335.0	4255.7	4228.4
8257.2	15°	8164.2	7928.3	7100.3	5904.8	4924.9	4362.3	4092.3	3985.7	3944.9	3942.6
8407.0	17.5°	8261.8	7935.1	6744.2	5287.8	4421.3	4033.3	3811.0	3770.2	3797.4	3838.3
8554.4	20°	8370.7	7873.9	6276.9	4725.2	4067.4	3745.2	3652.2	3679.5	3745.2	3804.2
8749.5	22.5°	8447.8	7762.7	5712.0	4287.4	3761.1	3579.6	3575.1	3631.8	3668.1	3697.6
8978.6	25°	8515.8	7574.4	5113.1	3919.9	3509.3	3479.8	3529.7	3511.6	3486.6	3511.6
9207.7	27.5°	8565.7	7277.3	4577.8	3597.8	3332.4	3411.8	3382.3	3341.5	3339.2	3352.8
9477.7	30°	8549.9	6880.3	4137.7	3291.6	3207.6	3284.7	3214.4	3207.6	3200.8	3207.6
9883.7	32.5°	8549.9	6428.8	3799.7	3080.6	3128.2	3098.7	3091.9	3076.0	3048.8	3046.6
10435.0	35°	8597.5	5977.4	3509.3	2967.2	3062.4	2992.1	2996.7	2958.1	2901.4	2874.2
11165.4	37.5°	8695.1	5614.5	3221.2	2912.7	2946.7	2944.5	2926.3	2860.5	2760.7	2674.5
12077.3	40°	8931.0	5507.8	3023.9	2887.8	2892.3	2919.5	2871.9	2744.9	2518.0	2377.4
13002.9	42.5°	9300.7	5687.1	2980.8	2826.5	2856.0	2883.2	2790.2	2495.3	2334.3	2250.3
13973.8	45°	9770.3	6000.1	3073.8	2738.0	2769.8	2817.4	2540.7	2400.0	2327.5	2329.7
14935.6	47.5°	10364.6	6329.0	3246.2	2660.9	2645.0	2672.3	2375.1	2288.9	2189.1	2214.0
15858.9	50°	11052.0	6662.5	3409.5	2556.6	2506.7	2418.2	2268.5	2186.8	2059.8	2000.8
16750.4	52.5°	11796.1	6984.6	3475.3	2429.5	2356.9	2254.9	2195.9	2096.1	1941.8	1844.3
17592.0	55°	12501.5	7277.3	3402.7	2277.5	2207.2	2127.8	2118.8	2057.5	1891.9	1755.8
18340.6	57.5°	13168.5	7522.3	3221.2	2123.3	2055.2	2007.6	2068.8	2039.4	1830.7	1656.0
19048.4	60°	13733.3	7690.1	2958.1	1966.8	1919.1	1894.2	1987.2	1978.1	1744.5	1549.4
19683.5	62.5°	14182.5	7755.9	2667.7	1817.0	1805.7	1760.3	1873.8	1873.8	1635.6	1445.0
20241.6	65°	14534.1	7692.4	2372.8	1669.6	1692.3	1624.2	1735.4	1721.8	1519.9	1352.0
20883.6	67.5°	14844.9	7483.7	2046.2	1524.4	1576.6	1490.4	1590.2	1558.4	1392.8	1259.0
21439.3	70°	14983.3	6998.2	1674.1	1379.2	1442.7	1358.8	1445.0	1386.0	1249.9	1159.2
20829.1	72.5°	13871.7	5816.4	1318.0	1227.2	1281.7	1213.6	1288.5	1220.4	1095.7	1054.8
17986.7	75°	11476.2	4364.5	1014.0	1061.6	1102.5	1050.3	1100.2	1050.3	936.9	966.4
13286.4	77.5°	8334.4	2946.7	775.8	887.0	905.1	877.9	921.0	864.3	762.2	755.4
6621.7	80°	4144.5	1726.3	608.0	701.0	694.2	676.0	725.9	698.7	612.5	648.8
1787.6	82.5°	1200.0	739.5	442.4	492.3	478.6	483.2	519.5	533.1	798.5	791.7
555.8	85°	376.6	290.4	265.4	274.5	260.9	267.7	306.2	608.0	562.6	328.9
172.4	87.5°	97.5	99.8	65.8	70.3	72.6	86.2	97.5	369.8	176.9	115.7
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>
7740.0
7370.3
6576.3
5480.6
4630.0
4235.2
3951.7
3854.1
3824.6
3713.5
3527.5
3375.5
3232.6
3076.0
2901.4
2704.0
2395.5
2250.3
2341.1
2277.5
2016.7
1842.0
1755.8
1646.9
1542.6
1438.2
1342.9
1249.9
1141.0
1020.8
882.4
721.4
642.0
809.8
356.2
122.5
0.0

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