

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: P954706

Luminaire Tested: **GALN-SB7D-850-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954706  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7D-850-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

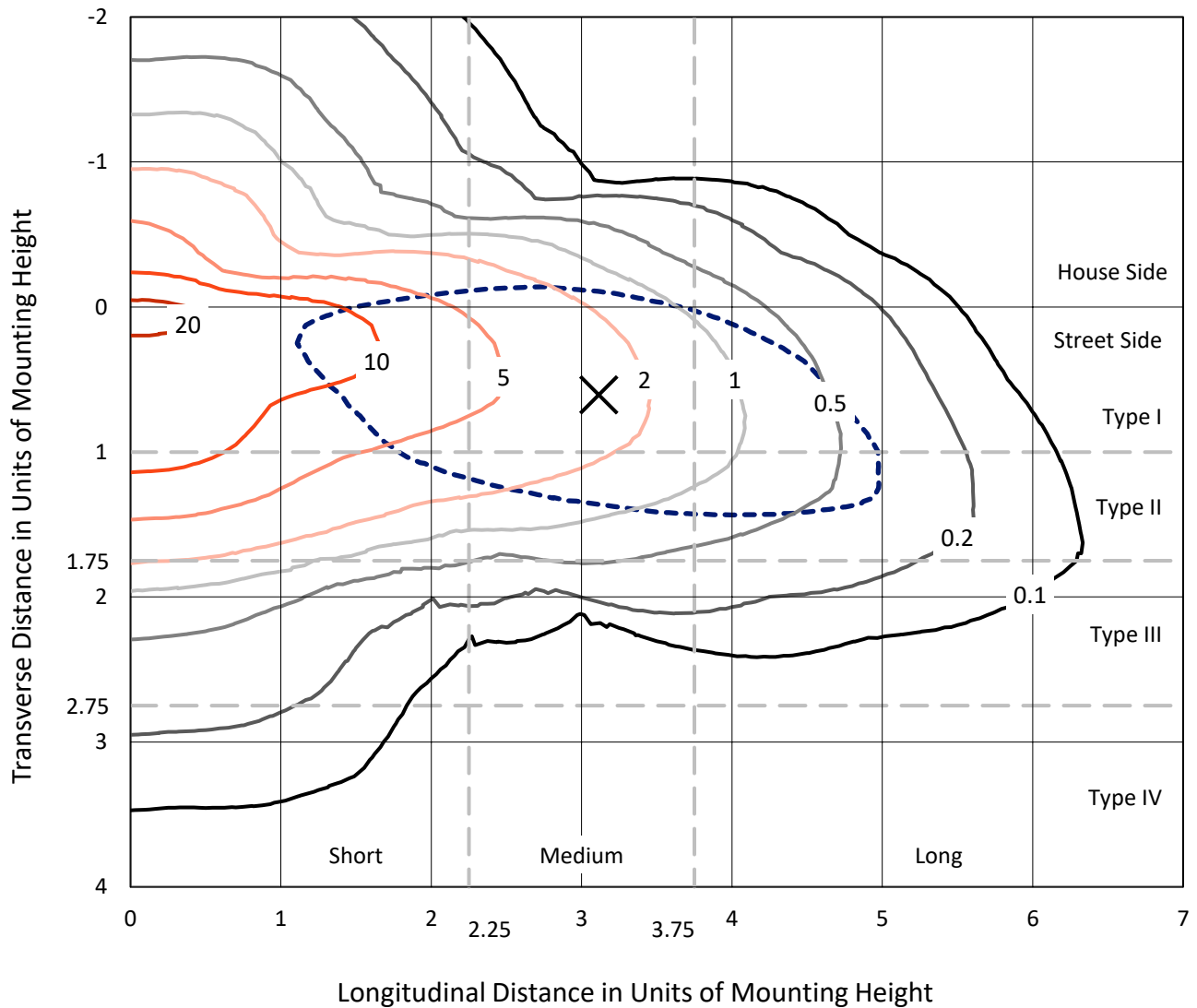
Lumens per Lamp: N/A  
Luminaire Lumens: 68803 lumens  
Efficiency: N/A  
Efficacy: 134.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

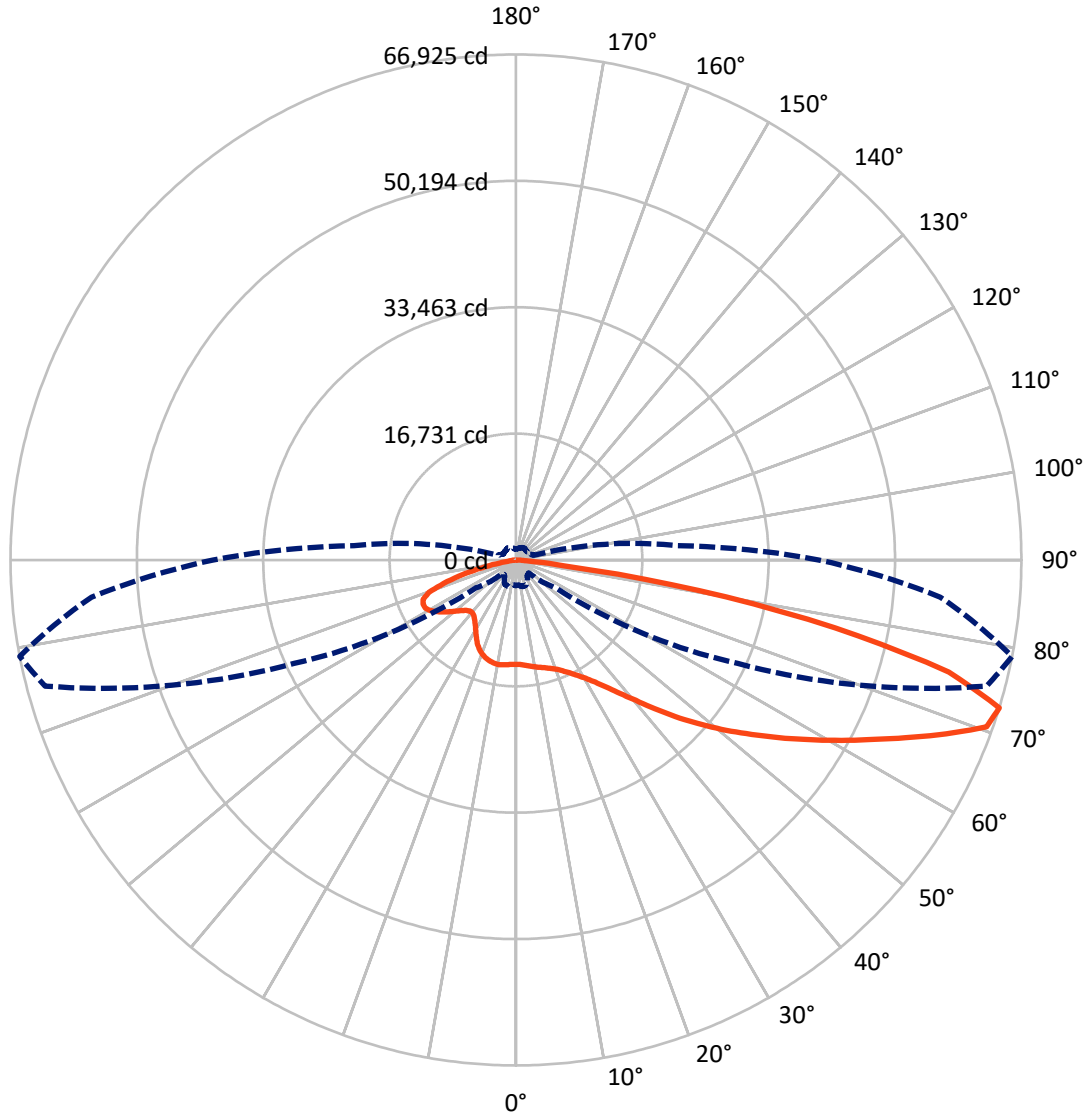
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15140.4	0.0	15140.4
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	53662.6	0.0	53662.6
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	68803.0	0.0	68803.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1253.7	1.8
10°-20°	3277.8	4.8
20°-30°	5289.0	7.7
30°-40°	7938.0	11.5
40°-50°	11260.5	16.4
50°-60°	14220.5	20.7
60°-70°	14442.9	21.0
70°-80°	9843.5	14.3
80°-90°	1277.1	1.9
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°	68803.0	100.0
0°-180°	68803.0	100.0

**Coefficient of Utilization**



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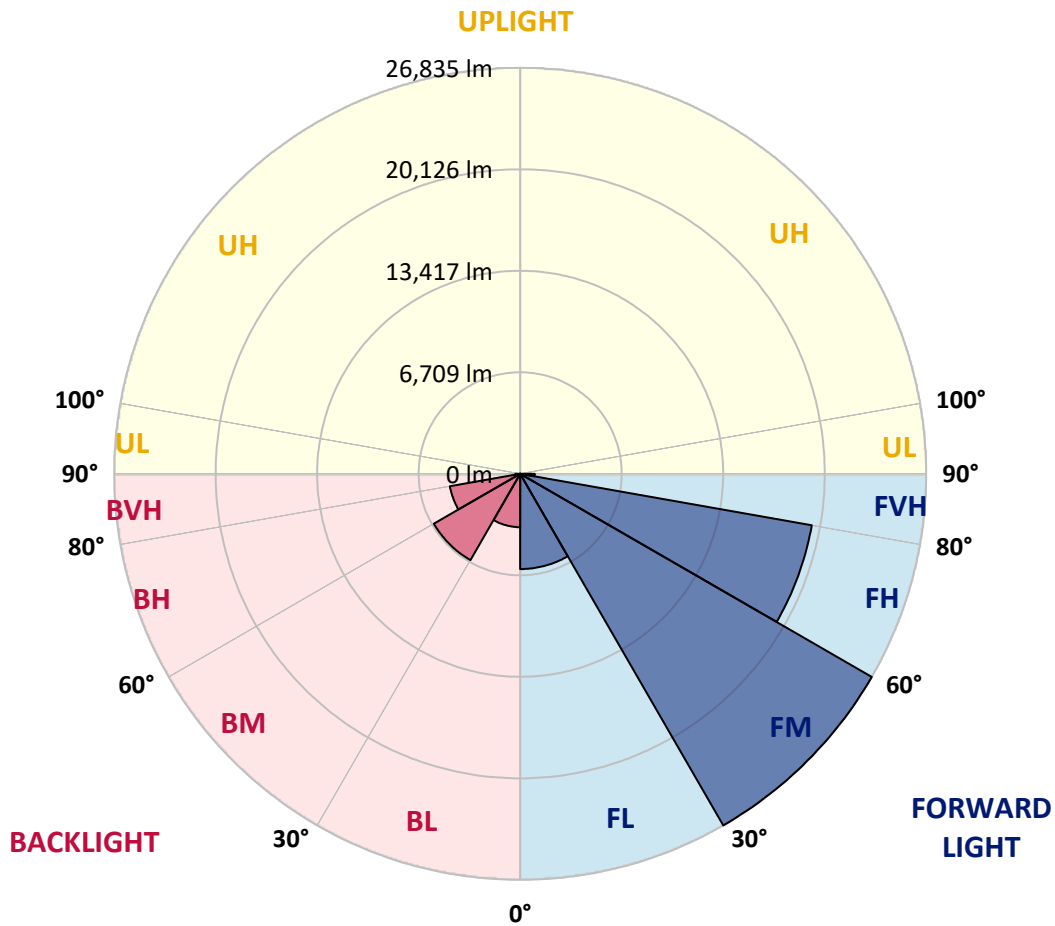
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6293.8	9.1			
FM (30°-60°)	26834.6	39.0			
FH (60°-80°)	19572.1	28.4			G5
FVH (80°-90°)	962.1	1.4			G5
BL (0°-30°)	3526.6	5.1	B4/5000		
BM (30°-60°)	6584.5	9.6	B4/8500		
BH (60°-80°)	4714.2	6.9	B4/5000		G4/5000
BVH (80°-90°)	315.0	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°	79°
0°	13811.5	13811.5	13811.5	13811.5	13811.5	13811.5	13811.5	13811.5	13811.5	13811.5
2.5°	13818.8	13753.3	13793.4	13778.8	13797.0	13818.8	13826.1	13837.0	13873.4	13869.8
5°	13789.7	13724.2	13778.8	13760.6	13807.9	13858.9	13902.5	13942.6	14000.8	14026.3
7.5°	13727.8	13684.2	13738.8	13793.4	13880.7	13957.1	14019.0	14110.0	14193.7	14208.2
10°	13367.5	13334.8	13462.2	13604.1	13844.3	14051.7	14186.4	14291.9	14382.9	14397.5
12.5°	12992.7	12952.6	13094.6	13287.5	13676.9	14051.7	14335.6	14473.9	14554.0	14601.3
15°	12930.8	12898.1	12978.1	13145.5	13469.4	13953.5	14437.5	14692.3	14761.4	14816.0
17.5°	13229.2	13167.4	13200.1	13258.4	13447.6	13862.5	14517.6	14939.8	15045.3	15103.5
20°	13920.7	13833.4	13782.4	13666.0	13633.2	13877.1	14510.3	15238.2	15376.5	15449.3
22.5°	14841.5	14783.3	14674.1	14379.3	14059.0	14055.4	14648.6	15620.3	15878.7	15947.9
25°	15955.2	15867.8	15729.5	15329.2	14714.1	14408.4	14881.5	16108.0	16541.1	16559.3
27.5°	17236.2	17105.2	16916.0	16388.2	15558.5	14961.6	15238.2	16668.5	17301.7	17294.5
30°	18586.4	18455.4	18255.3	17614.7	16570.2	15707.7	15733.2	17272.6	18204.3	18164.3
32.5°	19572.7	19474.5	19434.4	18939.5	17734.8	16588.4	16300.9	17942.3	19318.0	19281.6
35°	20329.7	20202.3	20249.7	19998.5	19005.0	17574.7	16996.0	18739.3	20671.8	20668.2
37.5°	21079.4	20966.6	21006.7	20839.2	20180.5	18826.7	17844.0	19714.7	22349.6	22429.7
40°	21763.7	21643.6	21803.7	21647.2	21094.0	20158.7	18808.5	20817.4	24293.0	24445.9
42.5°	22174.9	22080.3	22346.0	22349.6	21887.4	21283.2	19867.5	22033.0	26542.2	26884.3
45°	22316.8	22284.1	22684.4	22768.1	22589.8	21934.7	20821.0	23357.7	28966.0	29577.5
47.5°	22164.0	22102.1	22655.3	22964.7	23106.6	22240.4	21610.8	24791.6	31440.8	32336.1
50°	21392.4	21272.3	22094.8	22746.3	23252.2	22440.6	22407.8	26447.6	34254.1	35233.1
52.5°	20005.8	19914.8	20850.2	21982.0	22931.9	22538.8	23303.1	28256.4	36925.4	38191.9
55°	18233.4	18113.3	19143.3	20620.9	22134.9	22506.1	24198.4	30279.9	40077.1	41361.9
57.5°	15423.8	15183.6	16486.5	18233.4	20835.6	22466.1	25130.1	32292.5	43279.8	44819.3
60°	11325.8	10969.2	12566.9	14637.7	18295.3	22076.6	26283.8	34548.9	47123.0	48509.7
62.5°	6594.6	6387.2	7431.7	9364.2	13789.7	19783.8	26931.6	37172.9	50900.7	52356.5
65°	5120.6	5062.4	5153.4	5302.6	7675.5	14812.4	24933.6	39731.4	55704.8	56723.8
67.5°	4683.9	4640.2	4680.3	4400.0	3894.2	8250.5	19725.6	40379.2	60850.9	61469.6
70°	4163.5	4112.5	4243.5	4003.3	3064.4	3752.2	12745.2	38028.2	64945.2	66106.2
72.5°	3391.9	3333.7	3639.4	3530.2	2580.3	2409.3	6401.7	32441.7	64515.8	66925.0
75°	2605.8	2573.1	2937.0	3028.0	2103.6	1896.1	3071.7	24114.7	56774.7	59202.2
77.5°	2023.5	1998.0	2183.6	2514.8	1696.0	1470.3	1888.9	15296.4	42784.9	43210.7
80°	1517.6	1444.8	1615.9	1947.1	1321.1	1073.6	1281.1	8920.2	27044.4	24515.0
82.5°	949.9	913.5	1055.4	1299.3	931.7	738.8	833.4	4927.8	10838.2	6383.5
85°	542.3	527.7	575.0	742.4	505.9	425.8	476.8	2176.4	1979.8	1361.1
87.5°	218.4	211.1	262.0	331.2	185.6	156.5	167.4	524.1	436.7	404.0
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°
13811.5	0°	13811.5	13811.5	13811.5	13811.5	13811.5	13811.5	13811.5	13811.5	13811.5	13811.5
13866.1	2.5°	13851.6	13851.6	13800.6	13720.6	13629.6	13571.3	13476.7	13451.2	13353.0	13323.9
13989.9	5°	14019.0	13989.9	13833.4	13607.7	13298.4	13014.5	12701.5	12505.0	12228.4	12130.1
14233.7	7.5°	14230.1	14150.0	13880.7	13385.7	12737.9	12101.0	11438.7	10936.4	10456.0	10285.0
14433.9	10°	14423.0	14310.1	13851.6	12985.4	11864.5	10761.7	9706.3	8967.5	8407.0	8177.7
14655.9	12.5°	14615.9	14408.4	13658.7	12319.4	10623.4	9127.6	8003.1	7428.0	7082.3	6805.7
14837.9	15°	14797.8	14506.7	13360.3	11427.7	9262.3	7744.7	6914.9	6456.3	6179.7	5997.7
15103.5	17.5°	15008.9	14590.4	12912.6	10295.9	7966.7	6787.5	6110.6	5834.0	5779.4	5757.5
15467.5	20°	15303.7	14666.8	12323.0	9029.4	7013.1	6023.2	5673.8	5648.4	5644.7	5633.8
15904.2	22.5°	15620.3	14757.8	11544.2	7879.3	6201.5	5546.5	5484.6	5433.6	5400.9	5397.2
16431.9	25°	15995.2	14786.9	10568.8	6936.7	5510.1	5320.8	5248.0	5171.6	5149.8	5149.8
17032.4	27.5°	16359.1	14688.6	9433.3	6117.8	5120.6	5113.4	5018.7	4993.3	4989.6	5000.5
17716.6	30°	16723.1	14503.0	8305.1	5360.8	4895.0	4895.0	4862.2	4880.4	4895.0	4931.4
18655.6	32.5°	17214.4	14306.5	7362.5	4800.4	4698.5	4662.1	4694.8	4731.2	4745.8	4793.1
19889.4	35°	17935.0	14168.2	6612.8	4494.7	4494.7	4447.4	4465.6	4458.3	4425.5	4403.7
21381.5	37.5°	18888.5	14160.9	5994.1	4352.7	4323.6	4316.3	4320.0	4272.7	4145.3	3992.4
23186.7	40°	20034.9	14357.5	5517.3	4254.5	4232.6	4276.3	4254.5	4127.1	3777.7	3512.0
25406.7	42.5°	21574.4	14917.9	5211.6	4134.4	4199.9	4254.5	4167.1	3726.8	3490.2	3311.9
27936.1	45°	23386.8	15827.8	5055.1	4007.0	4138.0	4203.5	3781.3	3588.5	3399.2	3184.5
30694.8	47.5°	25439.5	16974.2	5018.7	3886.9	3999.7	4039.7	3617.6	3530.2	3315.5	3082.6
33468.0	50°	27674.0	18331.7	5117.0	3744.9	3799.5	3661.2	3563.0	3482.9	3260.9	3031.6
36310.4	52.5°	29985.1	19827.5	5313.5	3552.1	3599.4	3446.5	3541.1	3472.0	3228.2	2918.8
39247.4	55°	32256.1	21334.2	5502.8	3326.4	3395.6	3253.6	3479.3	3428.3	3078.9	2729.6
42380.9	57.5°	34563.4	22833.6	5688.4	3126.3	3199.0	3068.0	3381.0	3311.9	2911.5	2554.9
45801.9	60°	36961.8	24289.4	5775.7	2933.4	2984.3	2897.0	3231.8	3111.7	2722.3	2376.5
49164.7	62.5°	39207.3	25501.3	5633.8	2740.5	2773.2	2736.8	3035.3	2875.1	2533.0	2176.4
52669.5	65°	41460.1	26221.9	5197.1	2551.2	2558.5	2540.3	2758.7	2620.4	2311.0	2001.7
55737.5	67.5°	43501.8	26625.9	4501.9	2347.4	2329.2	2321.9	2500.3	2343.8	2096.3	1827.0
58070.4	70°	43934.9	25599.6	3439.2	2107.2	2107.2	2089.0	2216.4	2056.3	1859.7	1641.4
56399.9	72.5°	40128.1	21534.4	2442.0	1834.3	1863.4	1827.0	1932.5	1797.9	1619.5	1474.0
48607.9	75°	32358.0	15791.4	1776.0	1554.0	1605.0	1543.1	1641.4	1546.7	1393.9	1390.3
33497.1	77.5°	22233.1	9764.5	1288.3	1281.1	1317.5	1237.4	1350.2	1299.3	1161.0	1099.1
14579.5	80°	9487.9	3894.2	939.0	989.9	989.9	917.1	1048.1	1062.7	942.6	913.5
2813.3	82.5°	1888.9	1106.4	658.7	680.6	640.5	618.7	742.4	822.5	1135.5	1262.9
848.0	85°	567.7	407.6	396.7	371.2	327.5	331.2	436.7	826.1	1019.0	582.3
280.2	87.5°	156.5	101.9	105.5	83.7	69.1	91.0	149.2	626.0	342.1	145.6
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>
13811.5
13371.2
12202.9
10306.8
8228.7
6896.7
6030.5
5772.1
5670.2
5437.3
5171.6
5029.7
4956.9
4833.1
4454.6
3996.1
3504.7
3304.6
3169.9
3064.4
3006.1
2897.0
2711.4
2547.6
2365.6
2172.7
1979.8
1805.1
1634.1
1430.3
1252.0
1030.0
913.5
1266.5
502.2
123.7
0.0

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