

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: P954359

Luminaire Tested: **GALN-SB7C-850-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954359  
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-SB7C-850-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

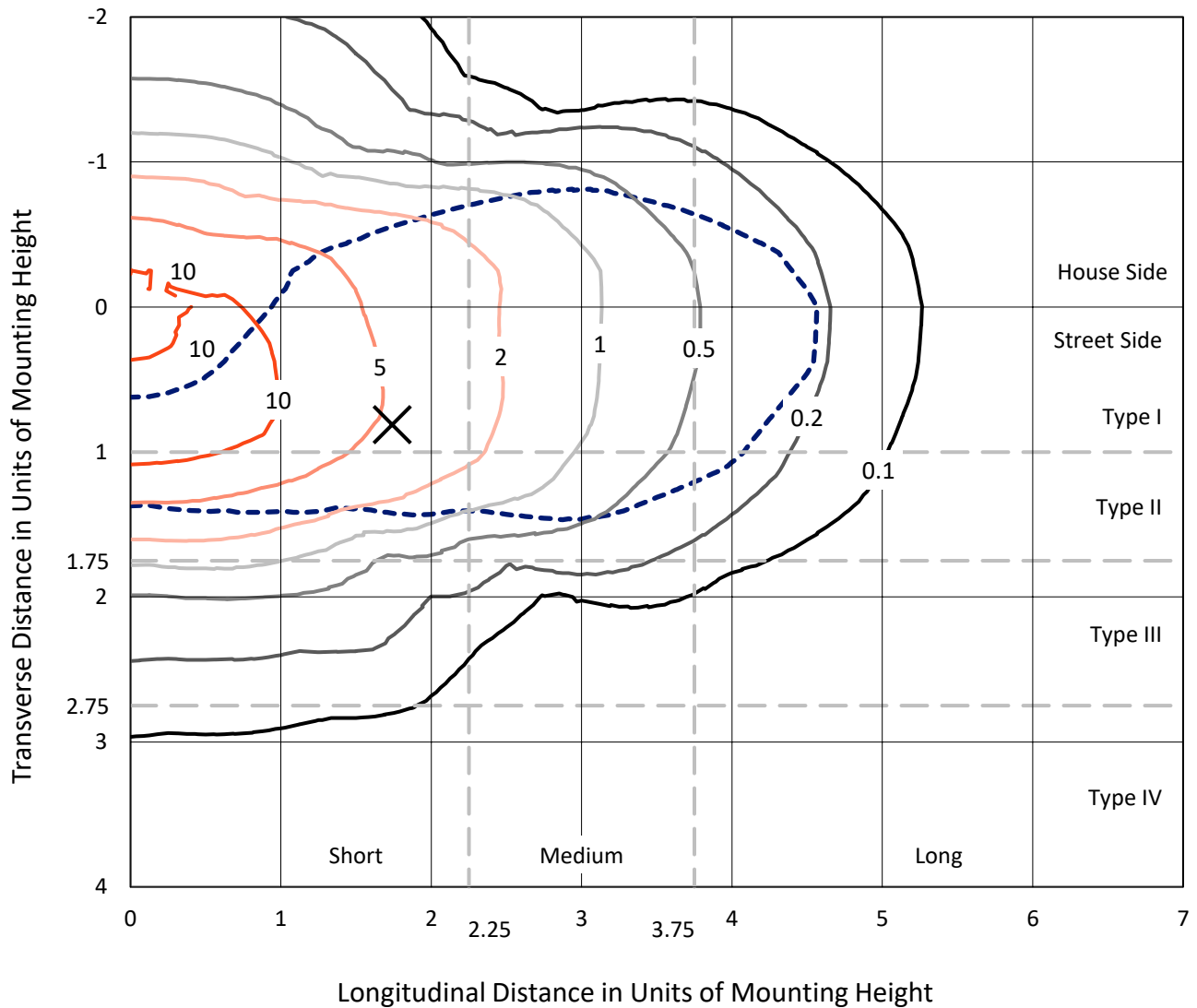
Lumens per Lamp: N/A  
Luminaire Lumens: 51627 lumens  
Efficiency: N/A  
Efficacy: 147.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): 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

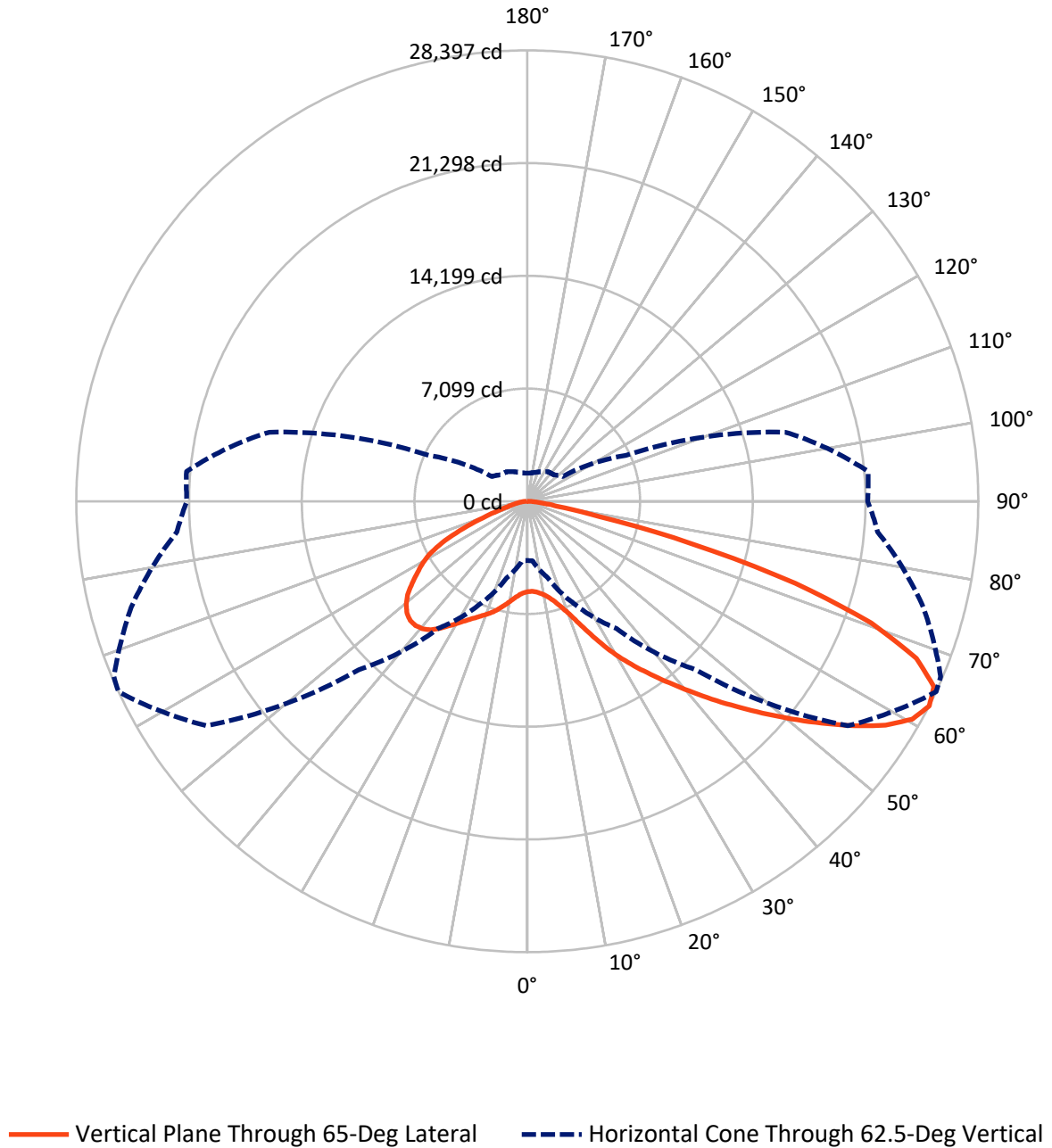
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16291.2	0.0	16291.2
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	35335.8	0.0	35335.8
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	51627.0	0.0	51627.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	567.2	1.1
10°-20°	1923.4	3.7
20°-30°	3899.9	7.6
30°-40°	6748.7	13.1
40°-50°	10212.9	19.8
50°-60°	11974.0	23.2
60°-70°	10038.7	19.4
70°-80°	5542.2	10.7
80°-90°	719.9	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°	51627.0	100.0
0°-180°	51627.0	100.0

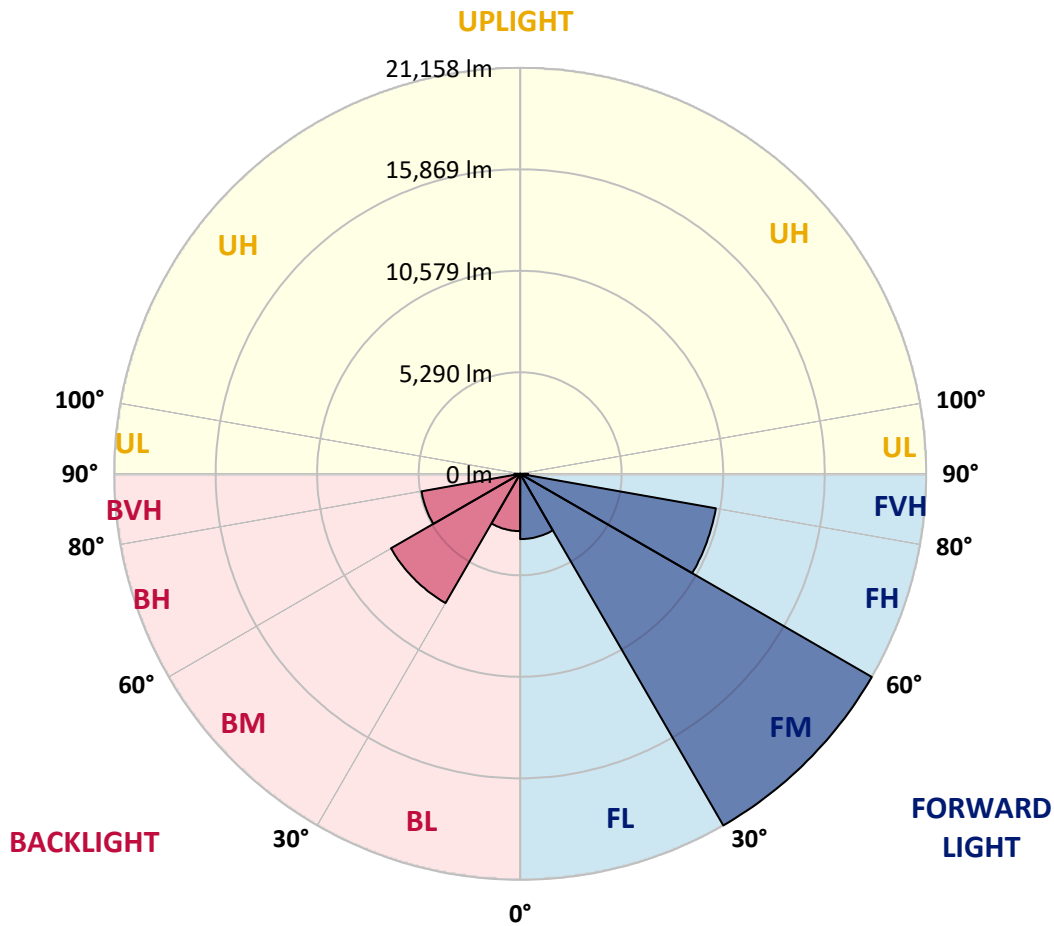


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3402.9	6.6			
FM (30°-60°)	21158.4	41.0			
FH (60°-80°)	10354.9	20.1			G4/12000
FVH (80°-90°)	419.6	0.8			G3/500
BL (0°-30°)	2987.6	5.8	B4/5000		
BM (30°-60°)	7777.2	15.1	B4/8500		
BH (60°-80°)	5226.1	10.1	B5		G5
BVH (80°-90°)	300.3	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°	5689.1	5689.1	5689.1	5689.1	5689.1	5689.1	5689.1	5689.1	5689.1	5689.1
2.5°	5651.6	5635.5	5648.9	5648.9	5654.3	5651.6	5670.3	5675.7	5683.7	5699.8
5°	5595.3	5592.6	5616.8	5638.2	5659.6	5678.4	5702.5	5737.3	5742.6	5761.4
7.5°	5576.6	5560.5	5598.0	5624.8	5675.7	5721.2	5785.5	5844.4	5868.5	5876.6
10°	5721.2	5694.4	5729.2	5745.3	5788.2	5833.7	5908.7	6002.5	6029.2	6061.4
12.5°	5967.6	5938.2	5989.1	6013.2	6053.3	6093.5	6144.4	6235.5	6248.9	6307.8
15°	6305.1	6270.3	6302.4	6331.9	6398.9	6436.4	6487.3	6575.6	6575.6	6621.2
17.5°	6763.1	6717.6	6741.7	6752.4	6795.3	6851.5	6937.2	7014.9	7055.1	7039.0
20°	7446.1	7389.9	7389.9	7336.3	7320.3	7365.8	7478.3	7585.4	7628.3	7545.3
22.5°	8472.0	8391.6	8346.1	8164.0	8091.7	8097.0	8209.5	8340.8	8375.6	8228.3
25°	9776.4	9650.5	9588.9	9321.1	9157.7	9015.7	9104.1	9272.9	9321.1	9138.9
27.5°	11080.8	11088.9	11029.9	10708.5	10438.0	10178.2	10132.7	10309.4	10360.3	10154.1
30°	12910.2	12720.1	12607.6	12221.9	11836.2	11471.9	11284.4	11356.7	11370.1	11123.7
32.5°	14487.8	14439.6	14198.6	13861.1	13365.6	12795.1	12481.7	12366.5	12345.1	11994.2
35°	16285.1	16258.3	16003.9	15602.1	15066.4	14273.6	13708.4	13379.0	13352.2	12859.3
37.5°	18111.8	18111.8	17862.7	17423.5	16869.0	15878.0	15018.2	14495.9	14410.2	13767.3
40°	19568.9	19480.5	19526.1	19341.2	18706.4	17653.8	16472.6	15714.6	15599.4	14828.0
42.5°	20396.6	20367.1	20640.3	20846.5	20586.7	19745.7	18074.3	17035.1	16874.4	15995.8
45°	20581.4	20549.2	21036.7	21792.0	22156.3	21810.8	19815.3	18425.2	18229.7	17217.2
47.5°	20155.5	20091.2	20806.4	21998.3	23166.1	23774.1	21701.0	19933.2	19649.3	18406.4
50°	18875.2	18813.6	19895.7	21478.7	23506.3	25108.0	23747.3	21532.2	21098.3	19681.4
52.5°	16092.3	16121.7	17817.2	19992.1	23059.0	25938.3	25509.8	23217.0	22694.7	20985.8
55°	12535.2	12599.5	14683.4	17077.9	21269.7	25812.4	26712.4	24952.6	24433.0	22212.6
57.5°	8975.6	9259.5	11212.1	13582.5	17833.3	23817.0	26974.9	26602.6	26099.0	23551.8
60°	5817.6	5868.5	7877.4	10266.6	13579.8	20270.7	26441.9	27853.4	27459.7	24917.8
62.5°	3728.4	3763.3	4987.3	7181.0	9773.7	14996.8	24647.3	28397.1	28276.6	25820.5
65°	2740.1	2713.3	3350.8	4746.2	6583.7	9248.8	21162.6	28134.7	28373.0	26385.6
67.5°	2287.4	2249.9	2563.3	3286.5	4850.7	5252.5	15658.3	26428.5	27301.7	26321.3
70°	2083.9	2051.7	2241.9	2440.1	3784.7	3516.8	7893.5	22975.9	24320.5	25590.1
72.5°	1765.1	1708.9	1968.7	2166.9	2943.6	2697.2	3262.4	17648.4	19287.7	23246.4
75°	1368.7	1331.2	1553.5	1907.1	2212.4	2105.3	2062.4	10716.6	12505.8	17977.9
77.5°	1084.8	1033.9	1237.5	1486.6	1990.1	1588.3	1502.6	4615.0	6388.2	11477.2
80°	816.9	771.4	940.1	1175.8	1529.4	1197.3	972.3	1883.0	2407.9	5815.0
82.5°	581.2	541.1	656.2	862.5	1028.5	1074.1	597.3	1055.3	1186.6	2241.9
85°	372.3	348.2	439.3	541.1	653.5	691.0	364.3	551.8	605.3	924.1
87.5°	203.6	166.1	235.7	251.8	302.7	275.9	174.1	200.9	217.0	334.8
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°
5689.1	0°	5689.1	5689.1	5689.1	5689.1	5689.1	5689.1	5689.1	5689.1	5689.1	5689.1
5699.8	2.5°	5710.5	5718.5	5745.3	5753.4	5772.1	5796.2	5812.3	5828.4	5828.4	5844.4
5785.5	5°	5788.2	5806.9	5863.2	5892.6	5940.8	5989.1	6018.5	6053.3	6074.8	6085.5
5922.1	7.5°	5938.2	5967.6	6048.0	6098.9	6181.9	6248.9	6294.4	6342.6	6353.3	6382.8
6112.3	10°	6141.7	6176.6	6267.6	6364.0	6463.1	6546.2	6589.0	6623.9	6637.3	6642.6
6356.0	12.5°	6374.8	6425.7	6543.5	6661.4	6765.8	6838.1	6848.8	6840.8	6803.3	6771.2
6656.0	15°	6661.4	6706.9	6838.1	6966.7	7068.5	7081.9	7014.9	6972.1	6926.5	6918.5
6990.8	17.5°	7004.2	7028.3	7148.8	7274.7	7282.8	7237.2	7138.1	7097.9	7055.1	7025.6
7427.4	20°	7403.3	7395.3	7481.0	7534.5	7478.3	7339.0	7189.0	7122.1	7079.2	7044.4
7963.1	22.5°	7880.1	7818.5	7807.7	7794.3	7644.4	7352.4	7148.8	7063.1	6996.2	6948.0
8710.4	25°	8573.8	8338.1	8174.7	8083.6	7746.1	7280.1	7020.3	6830.1	6704.2	6621.2
9623.7	27.5°	9441.6	9045.2	8632.7	8410.4	7746.1	7132.8	6709.6	6401.5	6195.3	6109.6
10507.6	30°	10269.3	9854.1	9246.1	8804.1	7727.4	6891.7	6208.7	5780.1	5539.1	5453.4
11263.0	32.5°	10976.4	10523.7	9896.9	9235.4	7681.9	6500.6	5587.3	5113.2	4880.2	4778.4
12010.3	35°	11632.6	11150.5	10550.5	9709.5	7561.3	5927.5	4904.3	4542.7	4282.9	4119.5
12770.9	37.5°	12304.9	11731.7	11169.2	10138.0	7344.4	5257.8	4379.3	4071.3	3765.9	3546.3
13579.8	40°	13036.1	12350.4	11830.8	10392.5	6988.1	4620.4	3972.2	3690.9	3366.8	3133.8
14512.0	42.5°	13890.5	13092.4	12567.4	10523.7	6500.6	4167.7	3707.0	3431.1	3125.8	2935.6
15511.0	45°	14782.5	13909.3	13239.7	10521.0	5956.9	3956.1	3621.3	3348.1	3010.6	2812.4
16536.9	47.5°	15717.3	14763.7	13820.9	10349.6	5485.5	3985.6	3573.1	3168.6	2796.3	2603.5
17573.4	50°	16654.7	15698.5	14383.4	10028.2	5284.6	3921.3	3393.6	2916.9	2477.6	2303.5
18545.7	52.5°	17584.2	16692.2	14868.2	9570.2	5081.1	3682.9	3163.3	2590.1	2346.3	2225.8
19550.2	55°	18518.9	17675.2	15395.8	8903.2	4572.1	3404.3	2777.6	2466.9	2241.9	2132.1
20533.2	57.5°	19456.4	18810.9	15896.7	8236.3	3932.0	3061.5	2566.0	2316.9	2137.4	2043.7
21355.4	60°	20431.4	20110.0	16413.7	7622.9	3299.9	2622.2	2410.6	2196.3	2014.2	1909.7
22145.6	62.5°	21435.8	21540.3	16818.1	6832.8	2718.6	2354.4	2271.3	2051.7	1874.9	1775.8
22799.1	65°	22448.3	22919.7	17083.3	5737.3	2204.4	2099.9	2121.3	1893.7	1714.2	1628.5
23278.6	67.5°	23211.6	23913.4	17008.3	4341.8	1808.0	1858.9	1933.9	1727.6	1558.9	1491.9
23200.9	70°	23297.3	23795.5	16269.0	2973.1	1513.3	1623.2	1724.9	1564.2	1390.1	1341.9
22108.1	72.5°	22156.3	22188.5	14209.3	1941.9	1280.3	1424.9	1505.3	1398.2	1229.4	1181.2
19341.2	75°	19164.5	18350.2	10432.6	1280.3	1071.4	1224.1	1299.1	1224.1	1060.7	1071.4
14471.8	77.5°	14520.0	12995.9	6334.6	910.7	894.6	1028.5	1130.3	1076.7	937.5	1052.6
7277.4	80°	7481.0	7031.0	2825.8	680.3	707.1	822.3	929.4	859.8	741.9	707.1
1625.8	82.5°	1714.2	1992.8	1114.2	487.5	511.6	591.9	709.8	645.5	533.0	450.0
677.7	85°	600.0	656.2	492.8	305.3	300.0	369.6	482.1	431.2	361.6	289.3
286.6	87.5°	190.2	249.1	184.8	123.2	128.6	166.1	222.3	203.6	168.7	109.8
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>
5689.1
5844.4
6090.8
6372.1
6629.2
6771.2
6918.5
7028.3
7047.1
6964.0
6653.3
6152.4
5504.3
4829.3
4173.1
3605.2
3179.3
2973.1
2844.5
2630.3
2314.2
2225.8
2121.3
2027.6
1901.7
1773.1
1625.8
1494.6
1344.6
1178.5
1033.9
926.8
645.5
444.6
305.3
115.2
0.0

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