

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: P943389

Luminaire Tested: **GALN-SB7D-830-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943389  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB7D-830-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

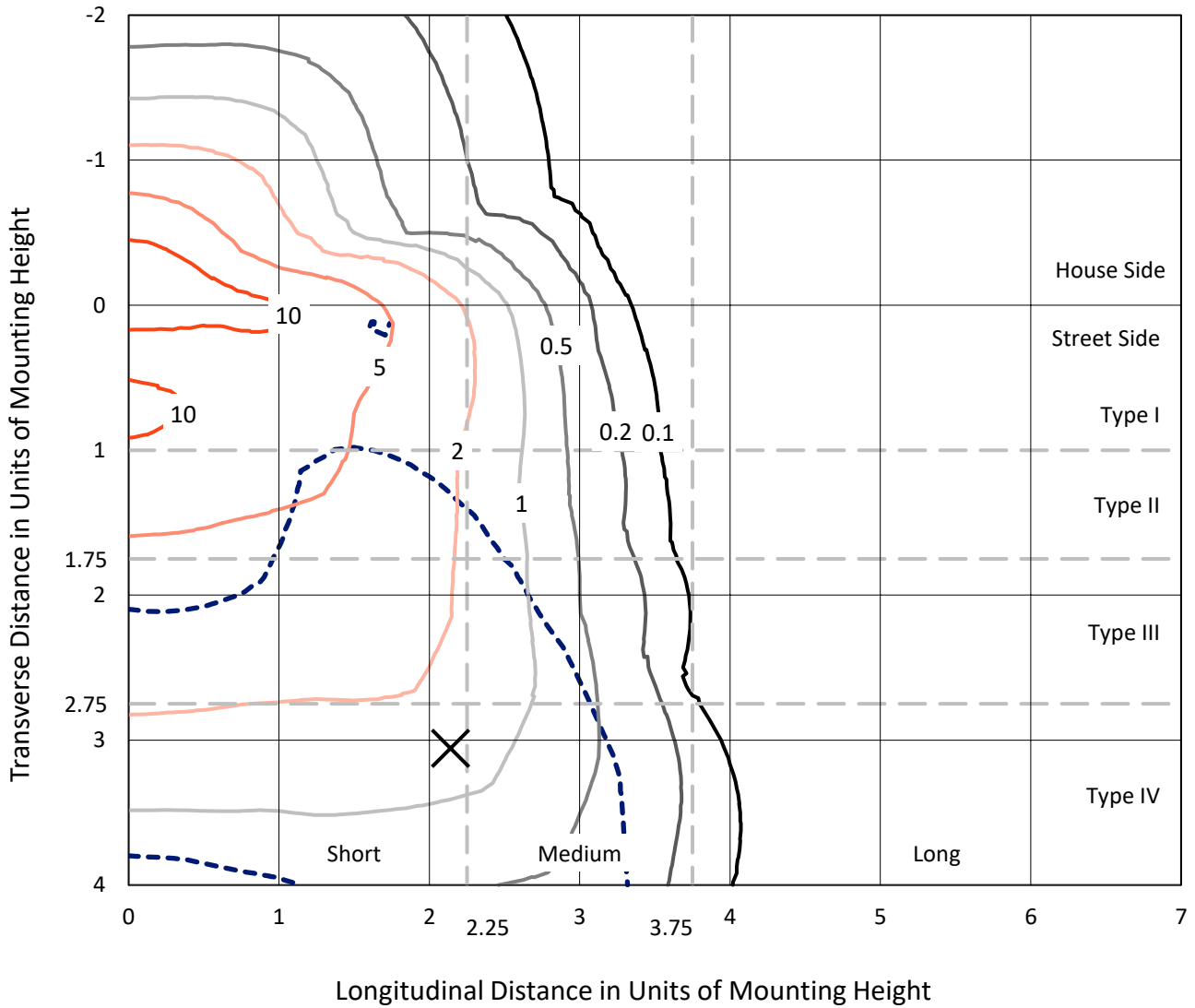
Lumens per Lamp: N/A  
Luminaire Lumens: 64271 lumens  
Efficiency: N/A  
Efficacy: 125.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

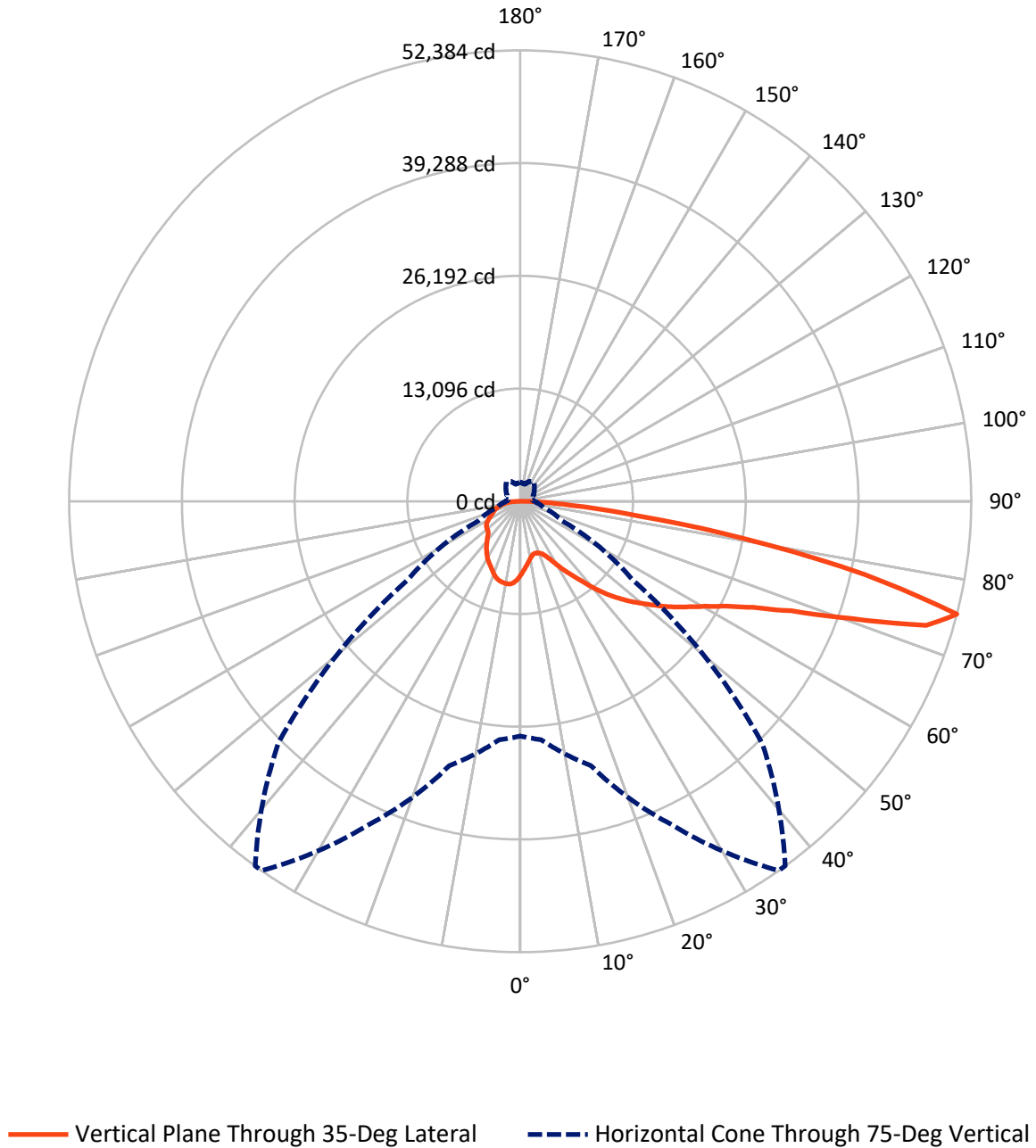
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc  
 Type IV - 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	15294.9	0.0	15294.9
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	48976.1	0.0	48976.1
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	64271.0	0.0	64271.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	810.9	1.3
10°-20°	2339.0	3.6
20°-30°	3927.7	6.1
30°-40°	6104.2	9.5
40°-50°	9060.3	14.1
50°-60°	12508.3	19.5
60°-70°	15175.4	23.6
70°-80°	12541.3	19.5
80°-90°	1803.8	2.8
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°	64271.0	100.0
0°-180°	64271.0	100.0

**Coefficient of Utilization**



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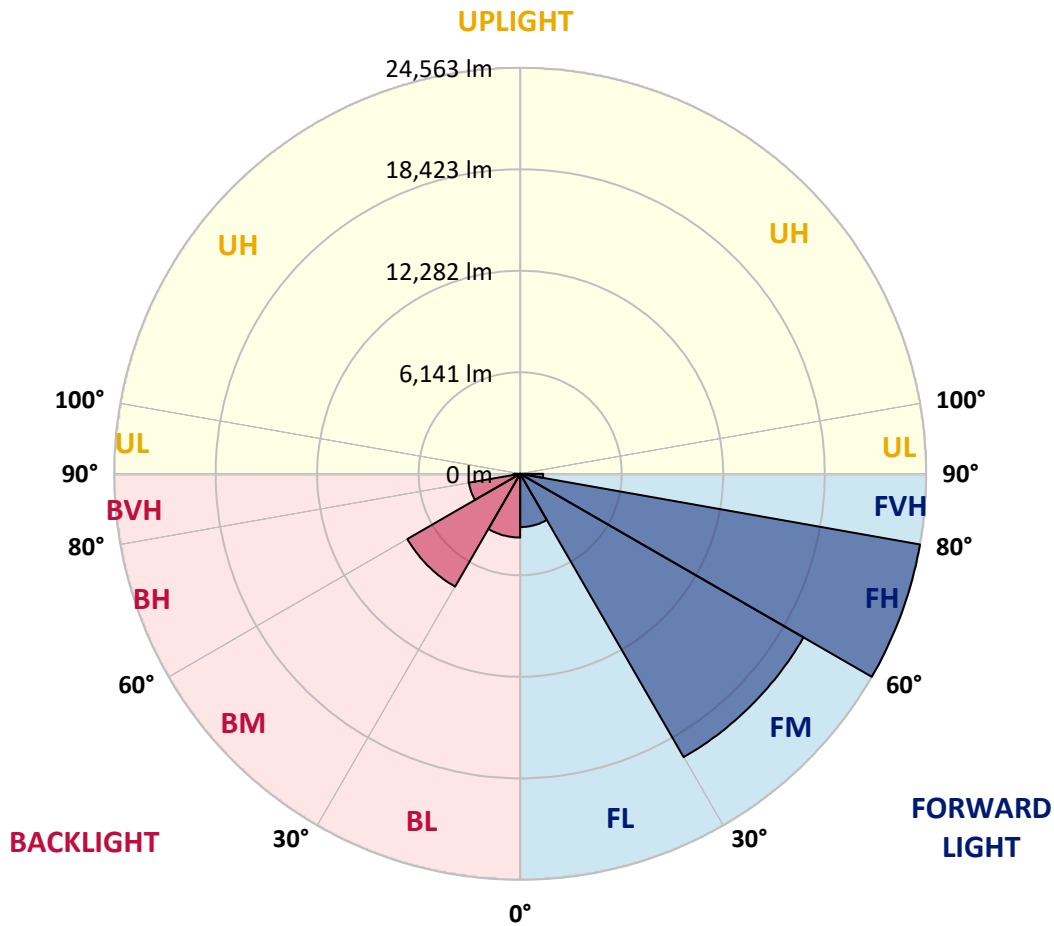
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3223.1	5.0			
FM (30°-60°)	19792.0	30.8			
FH (60°-80°)	24563.4	38.2			G5
FVH (80°-90°)	1397.6	2.2			G5
BL (0°-30°)	3854.5	6.0	B4/5000		
BM (30°-60°)	7880.9	12.3	B4/8500		
BH (60°-80°)	3153.3	4.9	B4/5000		G4/5000
BVH (80°-90°)	406.2	0.6			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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	8564.5	8564.5	8564.5	8564.5	8564.5	8564.5	8564.5	8564.5	8564.5	8564.5
2.5°	7897.4	7946.1	7966.9	7956.5	8008.6	8001.7	8074.6	8165.0	8290.1	8411.7
5°	7289.4	7341.5	7386.7	7428.4	7529.2	7560.4	7675.1	7848.8	8078.1	8310.9
7.5°	6723.1	6768.2	6837.7	6914.2	7084.4	7115.7	7306.8	7577.8	7897.4	8237.9
10°	6261.0	6306.1	6379.1	6466.0	6677.9	6716.1	6959.3	7320.7	7737.6	8168.5
12.5°	6062.9	6076.8	6118.5	6205.4	6389.5	6413.9	6681.4	7094.8	7581.3	8116.3
15°	6052.5	6080.3	6083.8	6128.9	6281.8	6292.2	6538.9	6948.9	7484.0	8105.9
17.5°	6156.7	6177.6	6146.3	6174.1	6302.7	6320.0	6514.6	6879.4	7452.7	8151.1
20°	6434.7	6452.1	6358.3	6320.0	6413.9	6427.8	6618.8	6924.6	7484.0	8244.9
22.5°	7025.4	7035.8	6806.5	6650.1	6657.1	6664.0	6830.8	7108.7	7605.6	8415.1
25°	7946.1	7939.1	7574.3	7272.0	7098.3	7060.1	7171.3	7407.6	7810.6	8641.0
27.5°	9023.2	8971.1	8606.2	8154.6	7775.8	7720.3	7695.9	7796.7	8102.4	8939.8
30°	10239.2	10190.6	9798.0	9207.3	8682.7	8592.3	8363.0	8310.9	8536.7	9346.3
32.5°	11573.4	11542.2	11073.1	10357.4	9655.5	9551.3	9165.6	9026.6	9203.8	9961.3
35°	12692.2	12664.4	12275.3	11538.7	10680.5	10551.9	10159.3	10003.0	10093.3	10750.0
37.5°	13703.3	13689.4	13355.8	12775.6	11889.6	11733.3	11292.0	11239.9	11222.5	11788.8
40°	14641.4	14606.6	14259.2	13953.4	13296.8	13154.3	12765.2	12720.0	12588.0	13067.4
42.5°	15680.2	15589.9	15086.1	14943.7	14766.5	14648.3	14415.5	14422.5	14130.6	14509.3
45°	16528.0	16475.9	15958.2	15874.8	16065.9	16017.3	16218.8	16270.9	15704.6	16020.7
47.5°	17438.3	17389.7	16951.9	16892.8	17410.5	17424.4	18136.7	18154.1	17240.3	17591.2
50°	18560.6	18491.1	18056.8	18129.7	18710.0	18762.1	20065.0	19946.9	18654.4	19186.0
52.5°	19300.6	19342.3	19248.5	19366.6	20158.8	20207.5	21962.1	21659.8	20054.6	20759.9
55°	19846.1	19929.5	20221.4	20492.4	21687.6	21736.2	23751.4	23289.3	21215.1	22219.2
57.5°	20548.0	20429.8	20975.3	21503.4	23139.9	23268.5	25492.1	24859.8	22243.5	23476.9
60°	21555.6	21472.2	21896.1	22677.8	24766.0	24970.9	27333.6	26273.9	22997.5	24474.1
62.5°	23598.5	23390.1	23456.1	24147.5	26815.9	27086.9	29411.3	27507.3	23372.7	24863.2
65°	26652.6	26294.7	25961.2	26440.6	29703.2	29970.7	31756.6	28476.7	23233.7	24109.3
67.5°	30498.8	30144.4	29734.4	30186.1	33955.9	34167.8	34650.8	29022.2	22139.3	21204.6
70°	33671.0	33539.0	34028.9	35887.7	40748.5	40755.4	38361.5	28570.5	19140.8	15034.0
72.5°	33250.6	33170.7	35752.2	41499.0	49309.5	49125.4	41874.2	25151.6	12893.7	6782.1
75°	27278.0	27795.7	31794.8	41398.2	52384.4	52360.1	39723.5	15989.5	5333.3	2810.8
77.5°	14627.5	15447.5	20641.8	30564.8	40894.4	41509.4	27927.7	5593.9	2289.7	1799.8
80°	4770.4	5486.2	8227.5	15562.1	26572.7	26458.0	11969.5	2195.9	1567.0	1275.1
82.5°	2025.6	2109.0	3676.0	7348.5	13637.3	13425.3	3811.5	1261.2	1101.4	872.1
85°	792.2	886.0	1622.6	3398.0	5906.6	5778.0	1375.9	625.4	705.3	569.8
87.5°	260.6	316.2	580.2	1163.9	1838.0	1772.0	337.0	215.4	305.8	260.6
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°
8564.5	0°	8564.5	8564.5	8564.5	8564.5	8564.5	8564.5	8564.5	8564.5	8564.5	8564.5
8588.9	2.5°	8637.5	8693.1	8759.1	8856.4	8939.8	9009.3	9082.2	9127.4	9144.8	9196.9
8602.8	5°	8700.0	8821.7	8985.0	9144.8	9301.1	9394.9	9478.3	9520.0	9558.2	9586.0
8641.0	7.5°	8804.3	8960.6	9217.7	9426.2	9558.2	9634.7	9690.3	9676.4	9690.3	9697.2
8682.7	10°	8894.6	9113.5	9419.3	9617.3	9718.1	9721.5	9707.6	9659.0	9634.7	9638.2
8745.2	12.5°	9002.3	9245.5	9575.6	9742.4	9770.2	9693.7	9634.7	9551.3	9520.0	9506.1
8839.0	15°	9148.3	9426.2	9745.9	9808.4	9738.9	9641.6	9540.9	9405.4	9335.9	9280.3
8998.9	17.5°	9325.5	9631.2	9877.9	9832.7	9683.3	9523.5	9360.2	9155.2	9012.8	8953.7
9217.7	20°	9572.1	9846.6	9978.7	9780.6	9554.8	9311.6	9033.6	8783.4	8651.4	8592.3
9495.7	22.5°	9870.9	10135.0	10075.9	9690.3	9370.6	8981.5	8634.0	8449.9	8383.9	8342.2
9853.6	25°	10228.8	10454.7	10145.4	9558.2	9068.3	8543.7	8276.2	8217.1	8185.8	8154.6
10291.4	27.5°	10694.4	10816.0	10197.5	9363.7	8595.8	8078.1	7980.8	7991.3	7980.8	7928.7
10899.4	30°	11309.4	11285.0	10246.2	9047.5	8053.8	7657.7	7664.7	7709.8	7716.8	7682.0
11747.2	32.5°	12118.9	11872.2	10270.5	8637.5	7536.1	7289.4	7296.4	7345.0	7379.8	7320.7
12855.5	35°	13098.7	12556.7	10232.3	8123.3	7136.5	6938.5	6886.4	6900.3	6910.7	6855.1
14200.1	37.5°	14241.8	13324.6	10062.0	7553.5	6806.5	6594.5	6483.3	6389.5	6333.9	6281.8
15721.9	40°	15496.1	14161.9	9749.3	6997.6	6438.2	6229.7	6062.9	5885.7	5698.1	5628.6
17334.1	42.5°	16809.4	15023.6	9370.6	6466.0	6014.3	5844.0	5666.8	5409.7	5128.3	4985.9
19008.8	45°	18171.4	15906.1	8998.9	5941.3	5580.0	5507.0	5302.0	4992.8	4687.0	4506.4
20686.9	47.5°	19505.6	16740.0	8453.4	5413.2	5173.5	5253.4	5093.6	4808.7	4468.2	4183.3
22351.2	50°	20780.7	17521.7	7560.4	4878.1	4843.4	5176.9	5024.1	4614.1	4224.9	3860.1
23984.2	52.5°	22045.5	18154.1	6417.3	4391.7	4666.2	5156.1	4933.7	4482.1	4006.1	3623.9
25519.9	55°	23119.1	18480.7	5315.9	3974.8	4409.1	4978.9	4826.0	4325.7	3696.8	3290.3
26572.7	57.5°	23730.6	18216.6	4398.7	3564.8	4054.7	4687.0	4641.9	3992.2	3328.5	3015.8
26777.7	60°	23466.5	17146.5	3648.2	3206.9	3717.7	4370.9	4322.2	3662.1	3047.1	2751.8
25679.7	62.5°	22010.7	15107.0	3054.1	2894.2	3411.9	4047.7	4002.6	3408.4	2831.7	2546.8
22764.7	65°	19078.3	12289.2	2591.9	2633.6	3102.7	3658.6	3724.6	3196.5	2661.4	2383.5
17612.0	67.5°	14551.0	8901.6	2230.6	2407.8	2800.4	3276.4	3467.5	3043.6	2519.0	2254.9
10190.6	70°	8293.5	5055.3	1924.9	2188.9	2532.9	2922.0	3269.5	2922.0	2366.1	2147.2
3818.4	72.5°	3144.4	2320.9	1664.3	1970.0	2275.8	2623.2	3050.6	2730.9	2188.9	2025.6
1973.5	75°	1678.2	1414.1	1400.2	1712.9	1980.4	2331.4	2776.1	2543.3	2056.9	2140.3
1365.5	77.5°	1143.1	1000.6	1170.9	1466.2	1657.3	2008.2	2484.2	2258.4	1782.4	1775.4
945.1	80°	792.2	708.8	952.0	1181.3	1282.1	1688.6	2168.1	1938.7	1452.3	1355.0
583.7	82.5°	476.0	462.1	712.3	882.5	906.8	1302.9	1796.3	1626.0	1188.3	1035.4
347.4	85°	260.6	274.5	455.2	517.7	528.1	910.3	1407.2	1257.8	913.8	767.9
125.1	87.5°	73.0	93.8	166.8	205.0	253.6	472.5	837.3	747.0	458.6	319.7
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>
8564.5
9193.4
9593.0
9707.6
9645.1
9499.2
9297.7
8957.2
8585.4
8349.1
8154.6
7939.1
7699.4
7348.5
6893.3
6316.6
5659.9
5003.2
4492.5
4152.0
3828.9
3582.2
3255.6
2974.1
2710.1
2501.6
2338.3
2213.2
2119.4
1997.8
2209.8
1636.5
1296.0
1042.3
774.8
319.7
0.0

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