

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: P944562

Luminaire Tested: **GALN-SB9C-827-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944562  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9C-827-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

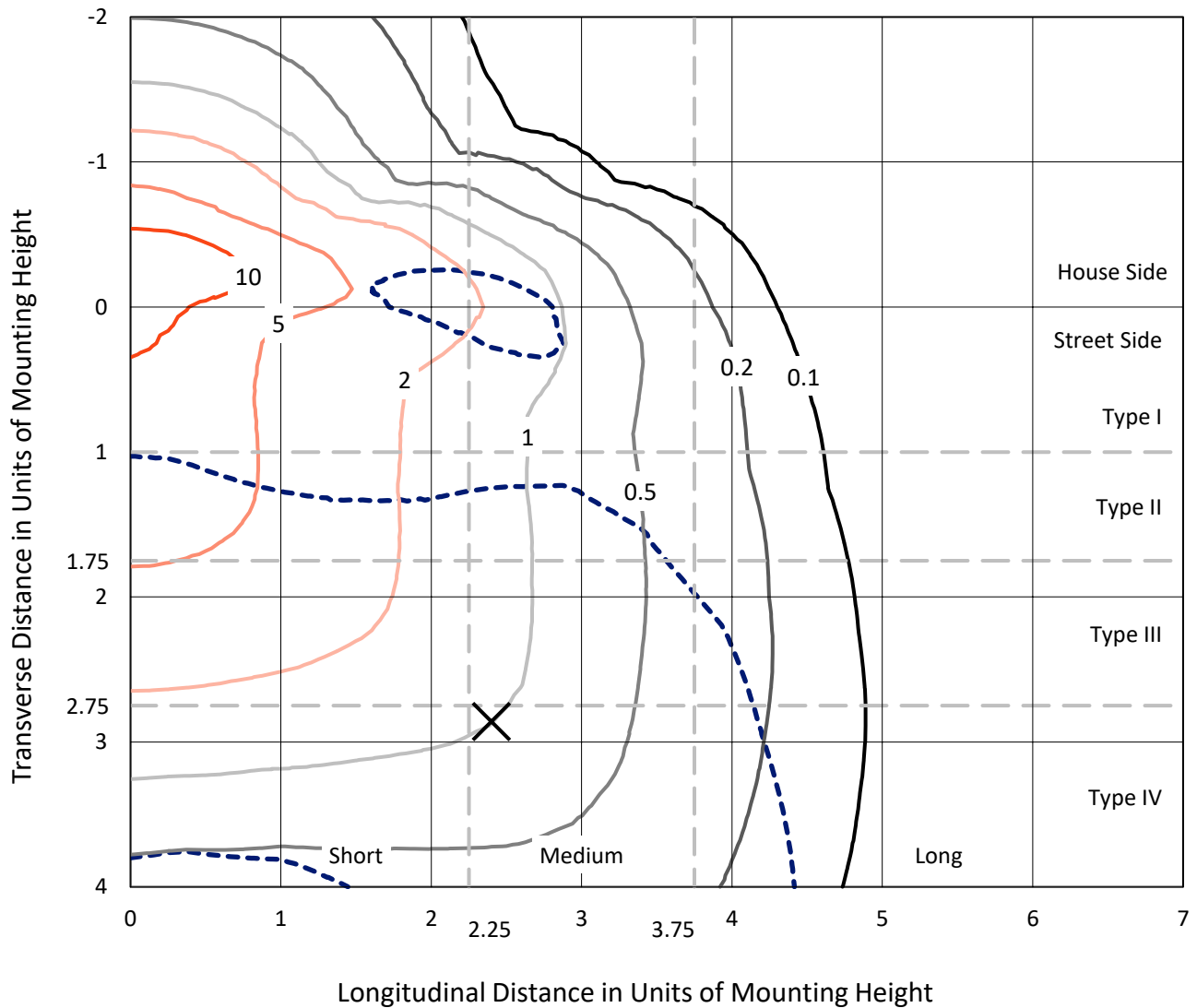
Lumens per Lamp: N/A  
Luminaire Lumens: 58798 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

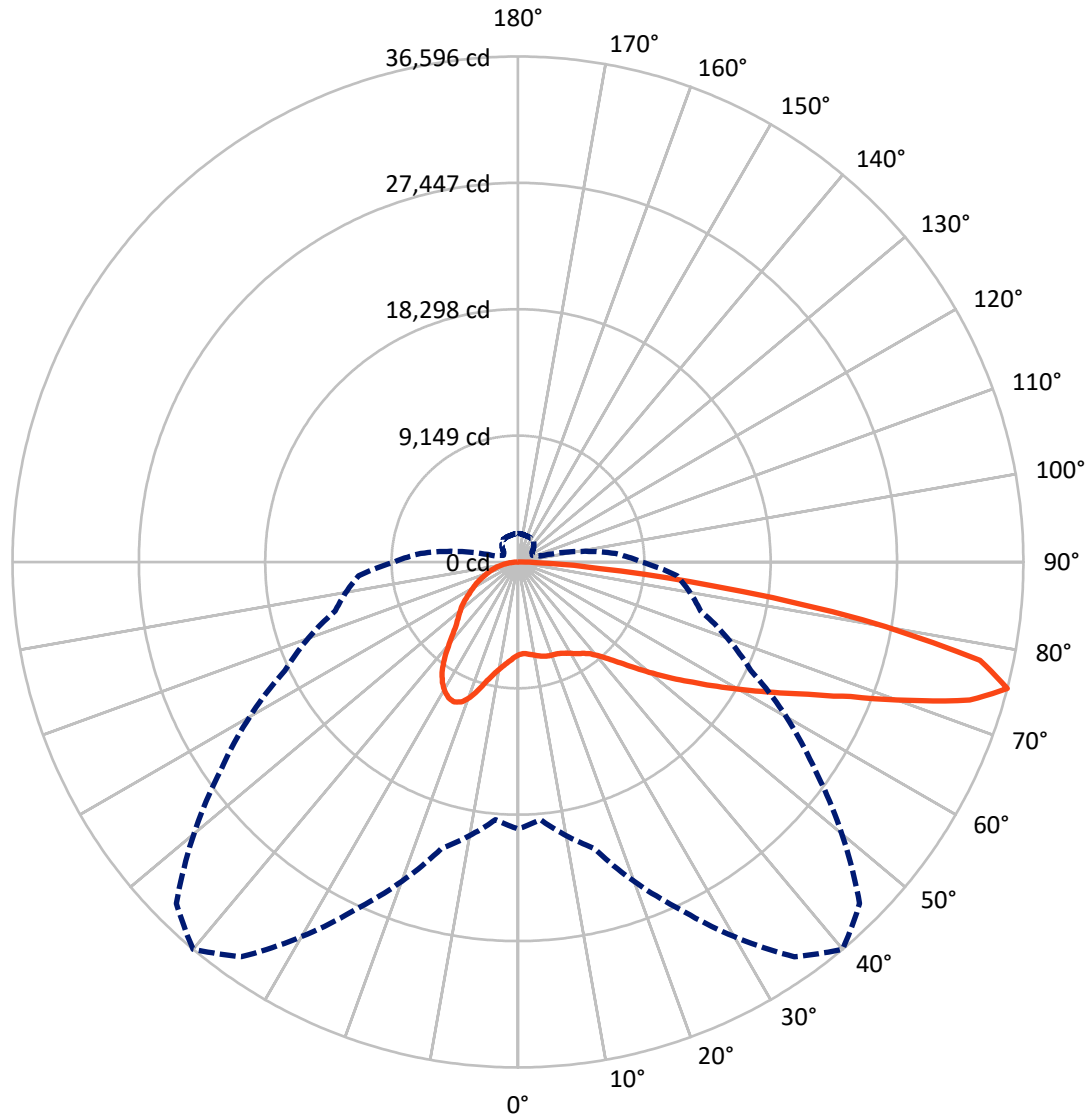
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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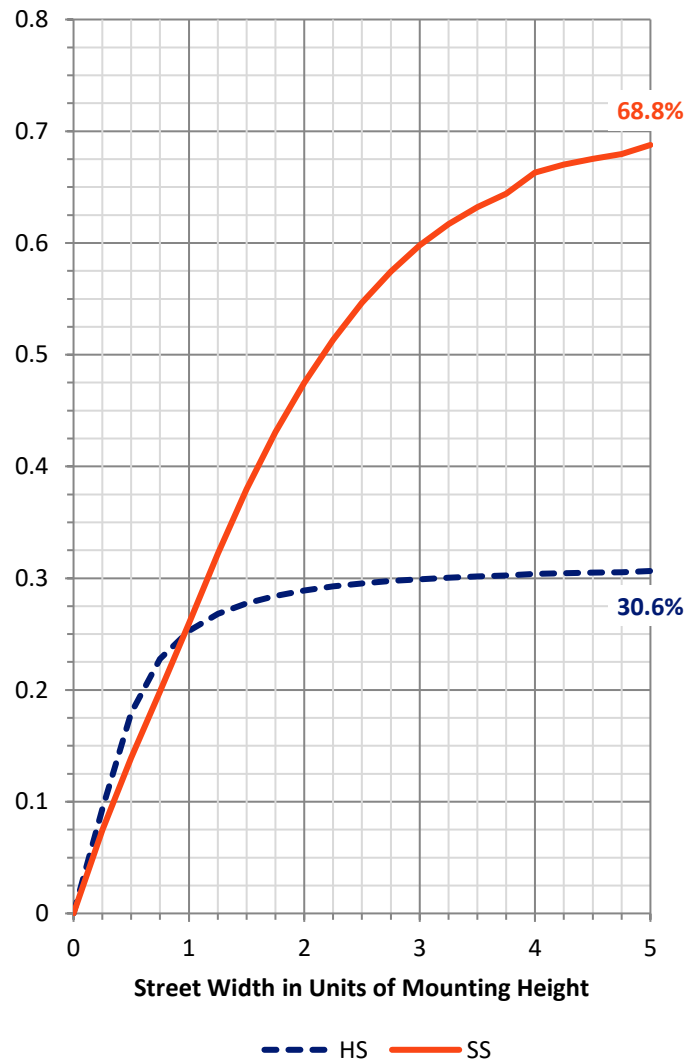
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18217.6	0.0	18217.6
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	40580.4	0.0	40580.4
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	58798.0	0.0	58798.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	671.2	1.1
10°-20°	2253.3	3.8
20°-30°	4114.4	7.0
30°-40°	5835.4	9.9
40°-50°	7879.5	13.4
50°-60°	10600.1	18.0
60°-70°	13453.9	22.9
70°-80°	12210.3	20.8
80°-90°	1779.9	3.0
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°	58798.0	100.0
0°-180°	58798.0	100.0

**Coefficient of Utilization**



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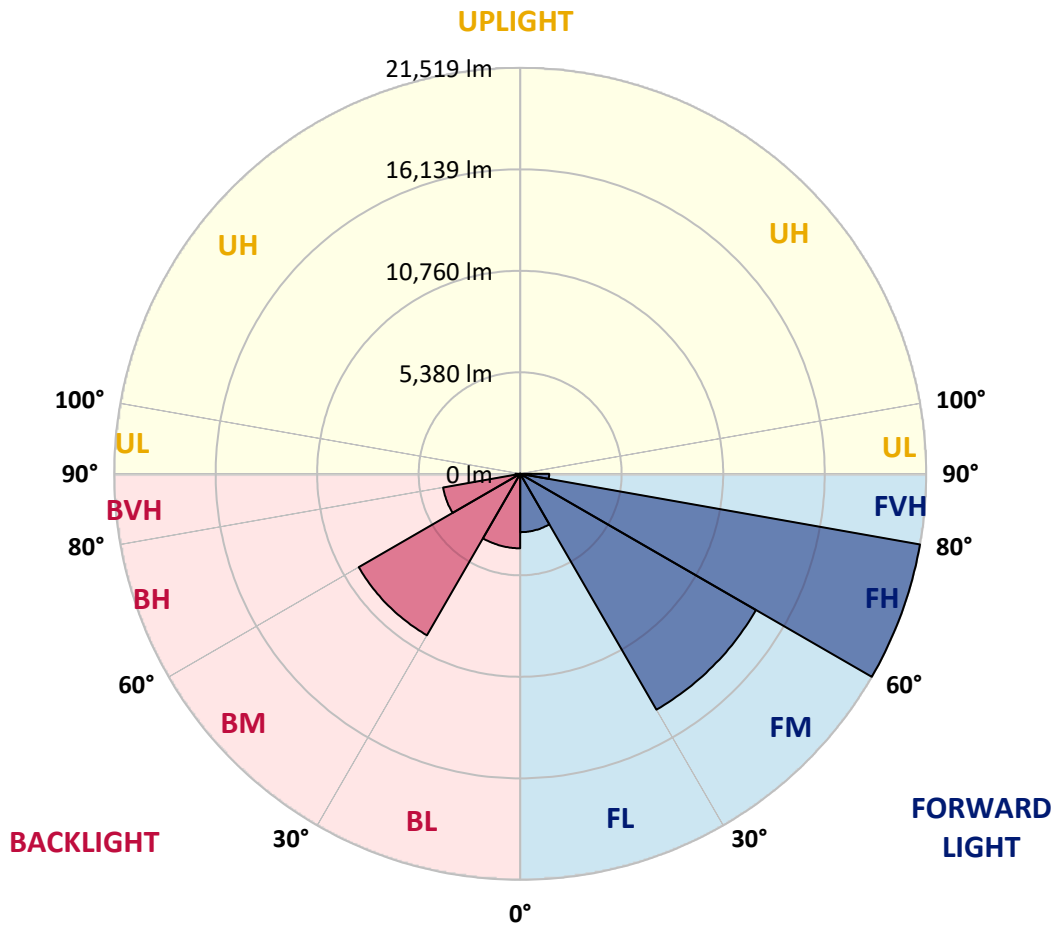
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3092.8	5.3			
FM (30°-60°)	14433.6	24.5			
FH (60°-80°)	21519.2	36.6			G5
FVH (80°-90°)	1534.8	2.6			G5
BL (0°-30°)	3946.1	6.7	B4/5000		
BM (30°-60°)	9881.4	16.8	B5		
BH (60°-80°)	4145.0	7.0	B4/5000		G4/5000
BVH (80°-90°)	245.1	0.4			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 IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	6723.6	6723.6	6723.6	6723.6	6723.6	6723.6	6723.6	6723.6	6723.6	6723.6
2.5°	6620.7	6658.1	6648.8	6636.3	6636.3	6639.4	6636.3	6658.1	6680.0	6701.8
5°	6689.3	6726.7	6708.0	6692.4	6680.0	6676.9	6667.5	6664.4	6676.9	6704.9
7.5°	6823.4	6860.8	6832.8	6804.7	6779.8	6767.3	6754.8	6736.1	6726.7	6742.3
10°	6973.1	7010.5	6976.2	6926.3	6885.8	6870.2	6857.7	6839.0	6826.5	6835.9
12.5°	7122.8	7160.2	7113.5	7044.8	6991.8	6982.5	6966.9	6960.6	6957.5	6954.4
15°	7263.1	7294.3	7235.1	7154.0	7097.9	7082.3	7066.7	7076.0	7091.6	7110.3
17.5°	7372.3	7403.5	7316.2	7210.1	7157.1	7150.9	7141.5	7172.7	7216.4	7263.1
20°	7472.1	7503.3	7391.0	7247.5	7185.2	7185.2	7188.3	7253.8	7316.2	7384.8
22.5°	7612.4	7637.4	7500.2	7303.7	7213.2	7219.5	7244.4	7309.9	7387.9	7481.4
25°	7821.4	7840.1	7671.7	7409.7	7306.8	7325.5	7347.3	7378.5	7453.4	7562.5
27.5°	8158.2	8173.8	7952.3	7596.8	7440.9	7472.1	7503.3	7481.4	7515.7	7609.3
30°	8632.2	8641.5	8360.9	7890.0	7668.6	7684.1	7690.4	7599.9	7534.5	7609.3
32.5°	9193.5	9190.4	8856.7	8245.5	7927.4	7911.8	7858.8	7681.0	7528.2	7593.7
35°	10063.6	10029.3	9598.9	8744.5	8220.5	8123.9	7999.1	7771.5	7559.4	7578.1
37.5°	11504.4	11398.4	10802.7	9561.5	8657.1	8410.8	8226.8	7918.0	7628.0	7571.9
40°	13129.2	12995.1	12340.2	10681.1	9312.0	8916.0	8619.7	8127.0	7740.3	7599.9
42.5°	15056.4	14866.2	14161.4	12000.2	10141.6	9567.8	9121.8	8392.1	7905.6	7690.4
45°	17423.4	17170.8	16172.9	13487.8	11186.3	10422.2	9826.6	8794.4	8158.2	7865.0
47.5°	19815.4	19877.7	18458.8	15190.5	12440.0	11476.3	10709.2	9399.4	8526.2	8145.7
50°	22357.0	22400.7	20732.2	17077.3	13862.0	12667.6	11700.9	10076.1	9037.6	8544.9
52.5°	24340.4	24346.6	22796.7	19051.3	15343.3	13977.4	12770.5	10849.5	9630.1	9075.0
55°	25581.6	25566.0	24243.7	20919.3	17046.1	15352.7	13955.6	11728.9	10353.6	9698.7
57.5°	26482.9	26436.1	25241.7	22525.4	18861.1	16977.5	15296.6	12726.9	11208.1	10441.0
60°	26825.9	26797.8	25918.4	23913.2	20769.7	18773.8	16843.4	13843.3	12178.0	11317.3
62.5°	26956.9	27009.9	26582.7	25257.3	22812.3	20763.4	18543.0	15178.1	13269.5	12309.0
65°	27418.4	27515.1	27427.8	27016.1	25120.1	23093.0	20797.7	16765.4	14460.8	13372.4
67.5°	28332.2	28428.9	28466.3	29121.2	27939.2	25996.4	23610.7	18742.6	15854.8	14476.4
70°	28310.3	28282.3	28943.4	30795.8	31469.5	30016.2	27402.8	21175.1	17517.0	15393.2
72.5°	25768.7	25544.2	27106.6	30777.1	34407.1	34213.8	32033.9	24312.3	18951.5	15505.5
75°	19332.0	18733.2	21493.2	27736.5	34896.8	36596.4	34977.8	26258.3	18611.6	13699.9
77.5°	8267.3	7665.4	10918.1	20532.6	31232.4	34210.7	32277.2	22909.0	14856.9	9059.4
80°	2164.3	2161.2	3299.4	9308.9	21240.6	25263.5	22163.7	14794.5	8488.7	3237.1
82.5°	895.0	873.2	1213.1	3620.7	10378.6	14177.0	11569.9	6598.9	3065.6	876.3
85°	333.7	330.6	589.4	1250.5	3661.2	5847.3	4231.9	1687.1	764.0	427.2
87.5°	93.6	90.4	127.9	433.5	891.9	1353.5	723.5	277.6	215.2	168.4
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°
6723.6	0°	6723.6	6723.6	6723.6	6723.6	6723.6	6723.6	6723.6	6723.6	6723.6	6723.6
6736.1	2.5°	6745.5	6761.1	6789.1	6810.9	6839.0	6870.2	6913.9	6941.9	6970.0	6988.7
6751.7	5°	6773.5	6807.8	6879.6	6951.3	7035.5	7113.5	7203.9	7269.4	7322.4	7338.0
6807.8	7.5°	6835.9	6892.0	7013.7	7135.3	7269.4	7397.2	7528.2	7640.5	7730.9	7765.2
6907.6	10°	6945.0	7019.9	7191.4	7362.9	7540.7	7737.2	7905.6	8067.7	8195.6	8248.6
7026.1	12.5°	7082.3	7175.8	7400.4	7637.4	7883.7	8155.1	8373.4	8572.9	8732.0	8803.7
7191.4	15°	7260.0	7381.6	7668.6	7986.6	8348.4	8725.7	9003.3	9224.7	9402.5	9489.8
7362.9	17.5°	7453.4	7615.5	7977.3	8457.6	8975.2	9471.1	9795.4	9957.6	10141.6	10225.8
7522.0	20°	7640.5	7840.1	8357.8	9056.3	9745.5	10272.6	10534.5	10578.2	10590.7	10600.0
7671.7	22.5°	7833.8	8102.0	8834.9	9811.0	10550.1	10915.0	10952.4	10765.3	10503.3	10381.7
7818.2	25°	8045.9	8401.4	9458.6	10643.7	11242.4	11286.1	10999.2	10543.9	10048.0	9820.4
7936.8	27.5°	8251.7	8747.6	10207.1	11438.9	11741.4	11357.8	10740.3	10094.8	9496.0	9255.9
8021.0	30°	8457.6	9143.6	11033.5	12134.3	11969.1	11180.1	10331.8	9611.4	9009.5	8756.9
8095.8	32.5°	8666.5	9605.2	11984.7	12636.4	11928.5	10802.7	9823.5	9068.8	8538.6	8273.6
8161.3	35°	8903.5	10172.8	12885.9	12910.9	11657.2	10247.6	9153.0	8420.1	7958.6	7746.5
8239.3	37.5°	9212.2	10893.2	13681.2	12979.5	11183.2	9433.7	8320.3	7653.0	7272.5	7175.8
8354.6	40°	9595.8	11760.1	14289.3	12870.3	10481.5	8445.1	7409.7	6876.4	6661.3	6683.1
8510.6	42.5°	10094.8	12730.0	14716.5	12589.7	9505.4	7425.3	6611.4	6374.4	6477.3	6564.6
8744.5	45°	10743.5	13737.3	14981.6	12112.5	8401.4	6561.5	6140.5	6196.6	6274.6	6283.9
9121.8	47.5°	11573.0	14757.1	15156.2	11392.1	7275.6	5953.3	5841.1	5853.5	5838.0	5772.5
9686.3	50°	12608.4	15748.8	15312.2	10437.8	6318.2	5572.9	5423.2	5379.5	5164.3	4952.3
10437.8	52.5°	13787.2	16659.4	15377.7	9252.8	5572.9	5254.8	5011.5	4737.1	4334.8	4269.3
11382.8	55°	15097.0	17501.4	15209.2	7796.4	4946.0	4846.3	4478.3	4147.7	4104.0	4047.9
12627.1	57.5°	16662.5	18408.9	14866.2	6171.6	4303.6	4369.1	4010.5	4047.9	3969.9	3882.6
14226.9	60°	18374.6	19347.6	14264.3	4690.3	3639.4	3773.5	3888.9	3885.7	3863.9	3792.2
15914.0	62.5°	19915.2	19965.1	13079.3	3592.6	3056.2	3311.9	3626.9	3623.8	3605.1	3564.5
17676.0	65°	20832.0	19871.5	11102.1	2828.5	2575.9	2931.5	3271.4	3296.3	3299.4	3296.3
19001.4	67.5°	20669.9	18776.9	8388.9	2251.6	2179.9	2544.8	2919.0	2953.3	2978.2	2984.5
19169.8	70°	18836.1	16372.5	5470.0	1796.3	1827.5	2204.8	2585.3	2619.6	2641.4	2666.4
16634.4	72.5°	14682.2	12037.7	3131.0	1453.3	1518.7	1911.7	2254.7	2295.3	2307.7	2354.5
11576.1	75°	8947.2	7079.1	1690.3	1144.5	1247.4	1634.1	1927.3	1974.1	1995.9	2052.0
5685.1	77.5°	4253.7	3065.6	963.6	891.9	1004.2	1334.7	1627.9	1680.9	1621.7	1652.8
1568.6	80°	1437.7	1138.3	608.1	679.8	767.2	1041.6	1303.6	1356.6	1231.8	1225.6
520.8	82.5°	502.1	461.5	386.7	452.2	495.9	745.3	985.5	1054.1	916.9	913.7
233.9	85°	196.5	187.1	215.2	246.4	296.3	458.4	648.7	683.0	564.5	455.3
68.6	87.5°	40.5	43.7	53.0	56.1	90.4	159.0	233.9	286.9	227.7	193.4
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

180°  
6723.6  
6976.2  
7344.2  
7768.3  
8251.7  
8803.7  
9483.6  
10222.7  
10625.0  
10416.0  
9854.7  
9284.0  
8785.0  
8307.9  
7793.3  
7244.4  
6757.9  
6645.7  
6346.3  
5822.4  
4980.4  
4291.1  
4057.3  
3867.0  
3767.2  
3548.9  
3296.3  
2990.7  
2678.8  
2373.2  
2058.3  
1627.9  
1213.1  
870.1  
449.1  
177.8  
0.0

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