

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: P955871

Luminaire Tested: **GALN-SB8C-940-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955871  
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-SB8C-940-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

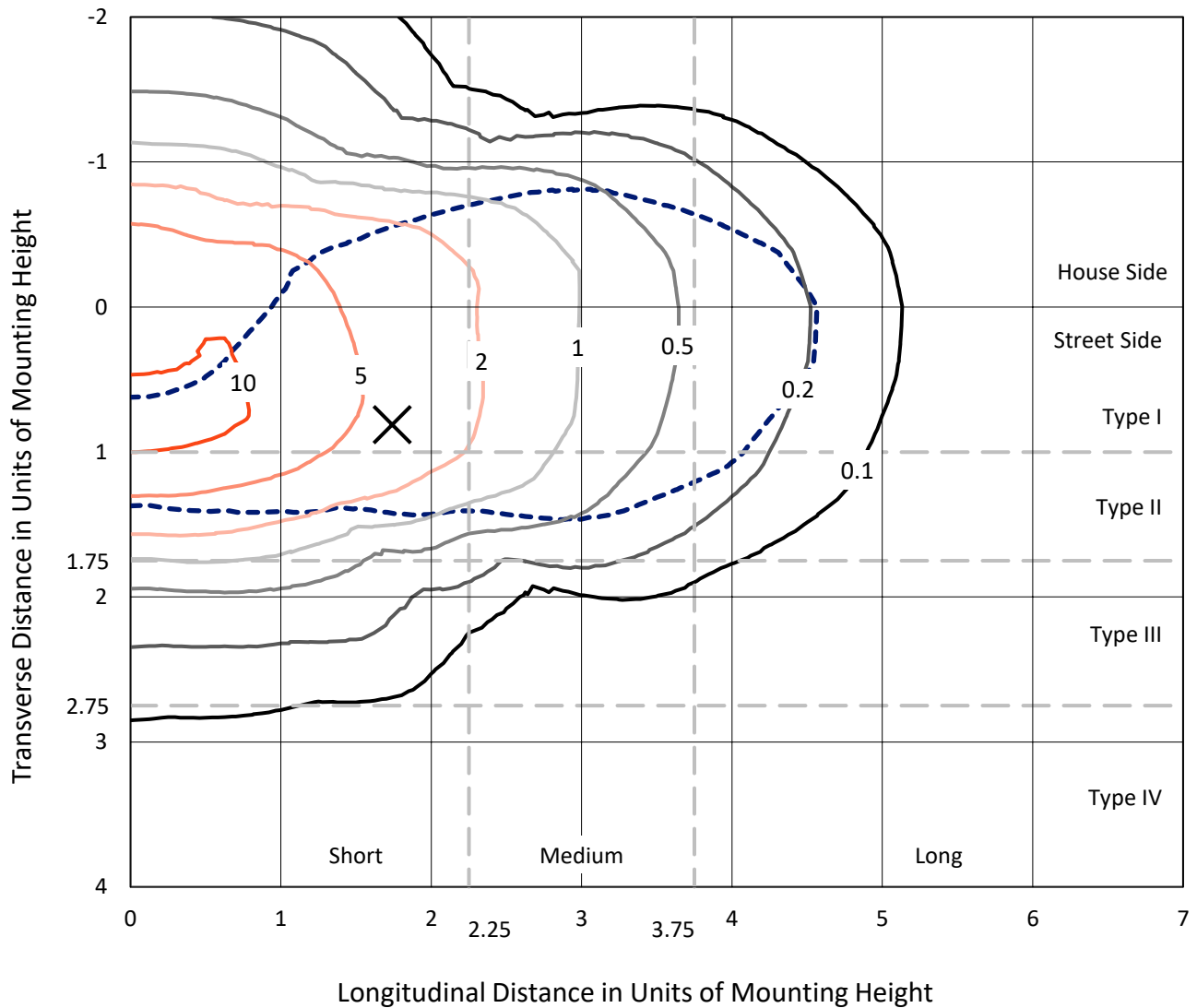
Lumens per Lamp: N/A  
Luminaire Lumens: 44471 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

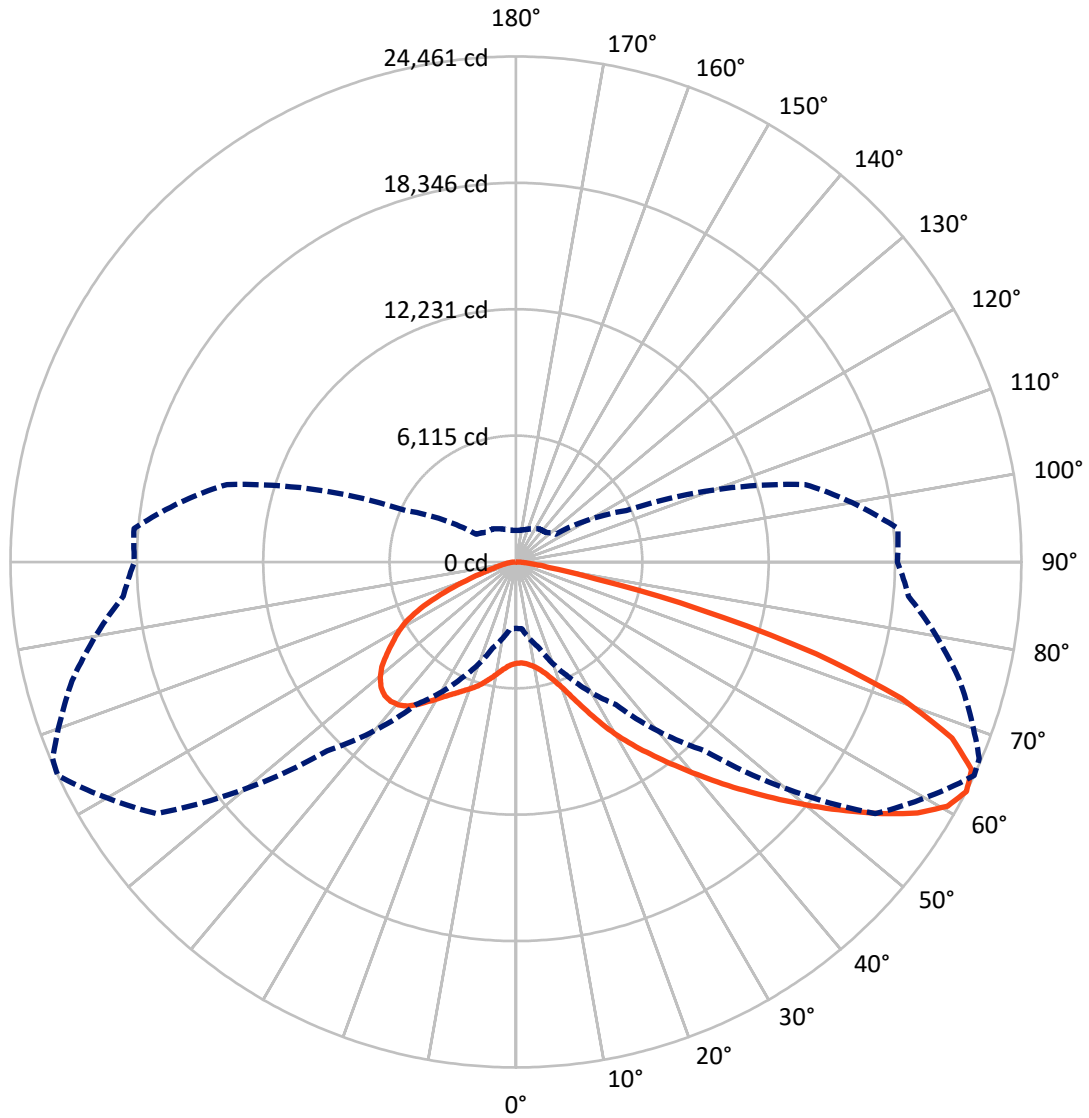
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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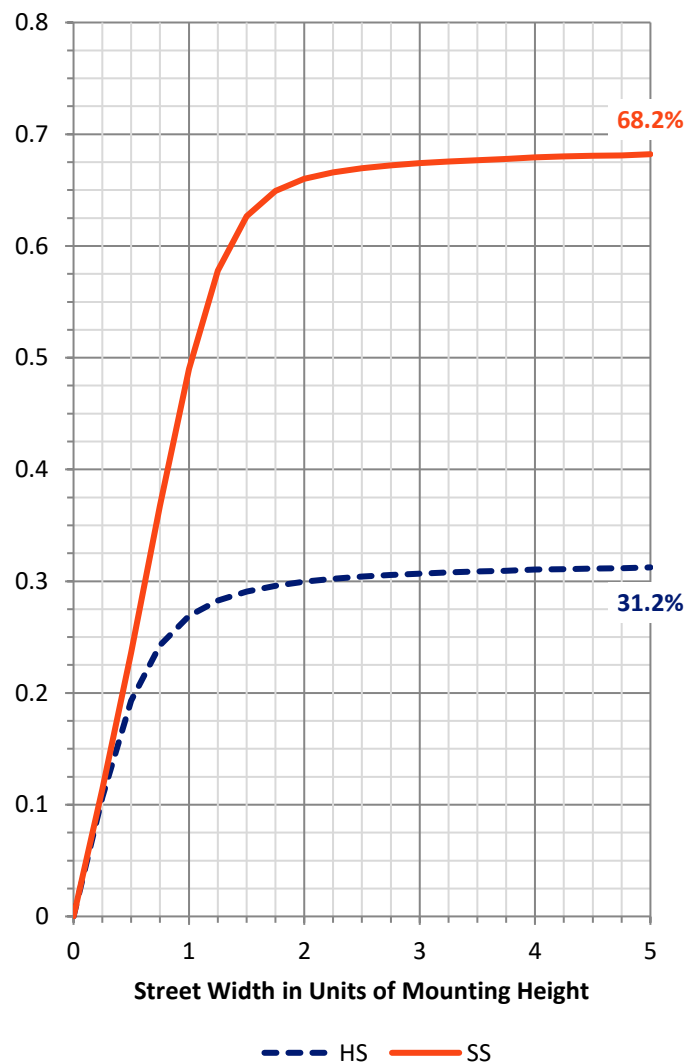
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14033.1	0.0	14033.1
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	30437.9	0.0	30437.9
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	44471.0	0.0	44471.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	488.6	1.1
10°-20°	1656.8	3.7
20°-30°	3359.3	7.6
30°-40°	5813.3	13.1
40°-50°	8797.3	19.8
50°-60°	10314.3	23.2
60°-70°	8647.3	19.4
70°-80°	4774.0	10.7
80°-90°	620.1	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°	44471.0	100.0
0°-180°	44471.0	100.0

**Coefficient of Utilization**



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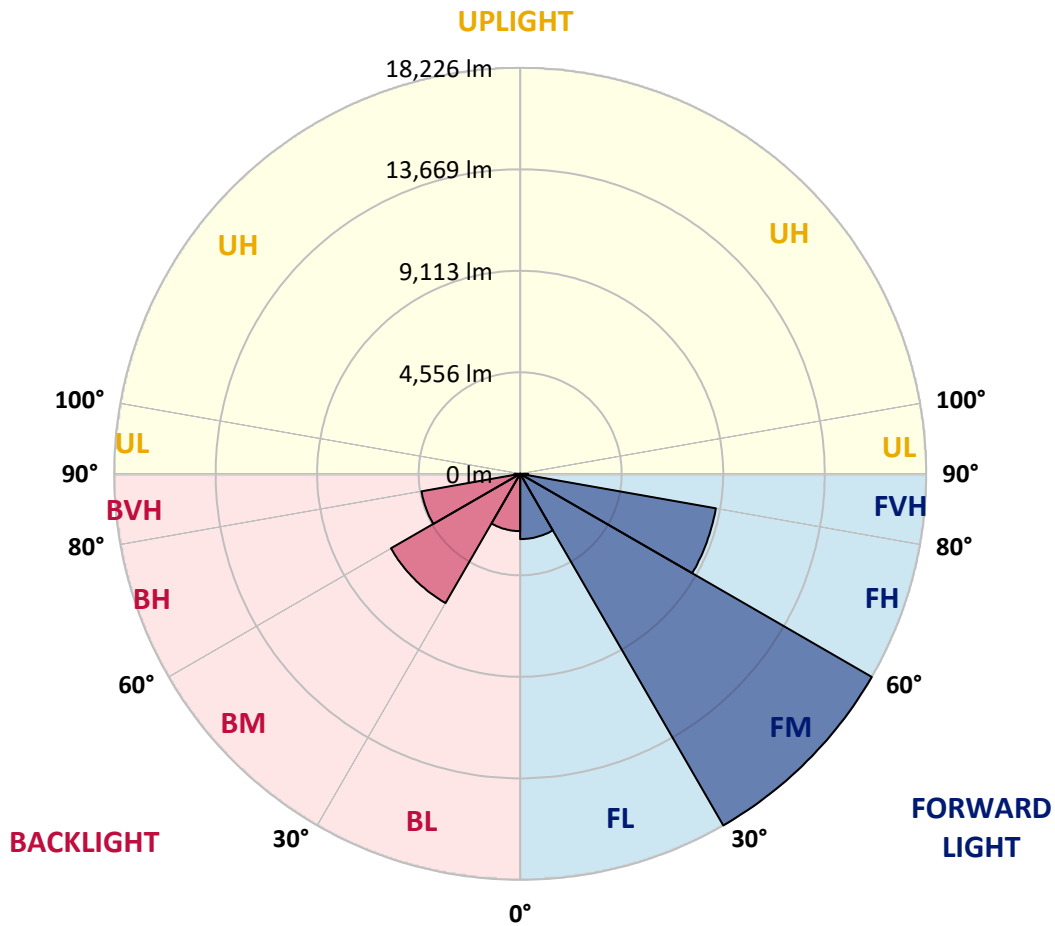
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2931.2	6.6			
FM (30°-60°)	18225.7	41.0			
FH (60°-80°)	8919.6	20.1			G4/12000
FVH (80°-90°)	361.4	0.8			G3/500
BL (0°-30°)	2573.5	5.8	B4/5000		
BM (30°-60°)	6699.2	15.1	B4/8500		
BH (60°-80°)	4501.7	10.1	B4/5000		G4/5000
BVH (80°-90°)	258.7	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-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	4900.5	4900.5	4900.5	4900.5	4900.5	4900.5	4900.5	4900.5	4900.5	4900.5
2.5°	4868.2	4854.4	4865.9	4865.9	4870.5	4868.2	4884.4	4889.0	4895.9	4909.7
5°	4819.8	4817.5	4838.2	4856.7	4875.1	4891.3	4912.0	4942.0	4946.7	4962.8
7.5°	4803.6	4789.8	4822.1	4845.1	4889.0	4928.2	4983.6	5034.3	5055.1	5062.0
10°	4928.2	4905.1	4935.1	4949.0	4985.9	5025.1	5089.7	5170.5	5193.5	5221.2
12.5°	5140.5	5115.1	5158.9	5179.7	5214.3	5248.9	5292.7	5371.2	5382.7	5433.5
15°	5431.2	5401.2	5428.9	5454.2	5511.9	5544.2	5588.1	5664.2	5664.2	5703.4
17.5°	5825.7	5786.5	5807.2	5816.5	5853.4	5901.8	5975.7	6042.6	6077.2	6063.3
20°	6414.0	6365.6	6365.6	6319.4	6305.6	6344.8	6441.7	6534.0	6570.9	6499.4
22.5°	7297.7	7228.5	7189.3	7032.4	6970.1	6974.7	7071.6	7184.6	7214.6	7087.7
25°	8421.3	8312.9	8259.8	8029.1	7888.3	7766.1	7842.2	7987.6	8029.1	7872.2
27.5°	9544.9	9551.8	9501.1	9224.2	8991.2	8767.4	8728.2	8880.4	8924.3	8746.6
30°	11120.7	10956.9	10860.0	10527.8	10195.6	9881.8	9720.3	9782.6	9794.1	9581.8
32.5°	12479.7	12438.2	12230.5	11939.8	11513.0	11021.5	10751.6	10652.4	10633.9	10331.7
35°	14027.8	14004.8	13785.6	13439.5	12978.0	12295.1	11808.3	11524.5	11501.4	11076.9
37.5°	15601.3	15601.3	15386.8	15008.4	14530.8	13677.1	12936.5	12486.6	12412.8	11859.1
40°	16856.5	16780.3	16819.6	16660.4	16113.5	15206.8	14189.3	13536.4	13437.2	12772.7
42.5°	17569.4	17544.0	17779.4	17957.0	17733.2	17008.7	15569.0	14673.8	14535.4	13778.7
45°	17728.6	17700.9	18120.8	18771.5	19085.2	18787.6	17068.7	15871.3	15702.9	14830.7
47.5°	17361.7	17306.4	17922.4	18949.1	19955.0	20478.8	18693.0	17170.2	16925.7	15855.1
50°	16258.9	16205.8	17137.9	18501.5	20248.1	21627.8	20455.7	18547.7	18173.9	16953.4
52.5°	13861.7	13887.1	15347.6	17221.0	19862.8	22343.0	21973.9	19998.9	19549.0	18077.0
55°	10797.7	10853.1	12648.1	14710.8	18321.5	22234.6	23009.8	21494.0	21046.4	19133.7
57.5°	7731.5	7976.0	9658.0	11699.9	15361.4	20515.7	23235.9	22915.2	22481.4	20287.3
60°	5011.3	5055.1	6785.5	8843.5	11697.5	17461.0	22776.8	23992.7	23653.5	21464.0
62.5°	3211.6	3241.6	4296.0	6185.6	8419.0	12918.1	21230.9	24461.0	24357.2	22241.5
65°	2360.3	2337.2	2886.3	4088.4	5671.1	7966.8	18229.3	24234.9	24440.3	22728.3
67.5°	1970.4	1938.1	2208.0	2830.9	4178.4	4524.4	13487.9	22765.2	23517.4	22672.9
70°	1795.0	1767.3	1931.1	2101.9	3260.1	3029.4	6799.3	19791.2	20949.5	22043.1
72.5°	1520.5	1472.0	1695.8	1866.5	2535.6	2323.4	2810.2	15202.2	16614.2	20024.3
75°	1179.0	1146.7	1338.2	1642.7	1905.8	1813.5	1776.6	9231.1	10772.4	15486.0
77.5°	934.4	890.6	1065.9	1280.5	1714.3	1368.2	1294.3	3975.3	5502.7	9886.4
80°	703.7	664.5	809.8	1012.9	1317.4	1031.3	837.5	1622.0	2074.2	5009.0
82.5°	500.7	466.1	565.3	742.9	886.0	925.2	514.5	909.0	1022.1	1931.1
85°	320.7	299.9	378.4	466.1	563.0	595.3	313.8	475.3	521.4	796.0
87.5°	175.3	143.0	203.0	216.9	260.7	237.6	150.0	173.0	186.9	288.4
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°
4900.5	0°	4900.5	4900.5	4900.5	4900.5	4900.5	4900.5	4900.5	4900.5	4900.5	4900.5
4909.7	2.5°	4919.0	4925.9	4949.0	4955.9	4972.0	4992.8	5006.6	5020.5	5020.5	5034.3
4983.6	5°	4985.9	5002.0	5050.5	5075.9	5117.4	5158.9	5184.3	5214.3	5232.7	5242.0
5101.2	7.5°	5115.1	5140.5	5209.7	5253.5	5325.0	5382.7	5421.9	5463.5	5472.7	5498.1
5265.1	10°	5290.4	5320.4	5398.9	5481.9	5567.3	5638.8	5675.7	5705.7	5717.3	5721.9
5475.0	12.5°	5491.2	5535.0	5636.5	5738.0	5828.0	5890.3	5899.5	5892.6	5860.3	5832.6
5733.4	15°	5738.0	5777.3	5890.3	6001.0	6088.7	6100.3	6042.6	6005.7	5966.4	5959.5
6021.8	17.5°	6033.4	6054.1	6157.9	6266.4	6273.3	6234.1	6148.7	6114.1	6077.2	6051.8
6397.9	20°	6377.1	6370.2	6444.0	6490.2	6441.7	6321.8	6192.5	6134.9	6098.0	6068.0
6859.3	22.5°	6787.8	6734.7	6725.5	6714.0	6584.8	6333.3	6157.9	6084.1	6026.4	5984.9
7503.0	25°	7385.4	7182.3	7041.6	6963.2	6672.4	6271.0	6047.2	5883.4	5774.9	5703.4
8289.8	27.5°	8132.9	7791.4	7436.1	7244.6	6672.4	6144.1	5779.6	5514.2	5336.6	5262.7
9051.2	30°	8845.8	8488.2	7964.5	7583.8	6656.3	5936.4	5348.1	4979.0	4771.3	4697.5
9701.8	32.5°	9454.9	9065.0	8525.1	7955.3	6617.1	5599.6	4812.8	4404.5	4203.7	4116.1
10345.5	35°	10020.2	9604.9	9088.1	8363.6	6513.3	5105.9	4224.5	3913.0	3689.2	3548.5
11000.8	37.5°	10599.3	10105.6	9621.1	8732.8	6326.4	4529.1	3772.3	3507.0	3243.9	3054.7
11697.5	40°	11229.2	10638.5	10190.9	8952.0	6019.5	3979.9	3421.6	3179.3	2900.2	2699.4
12500.5	42.5°	11965.2	11277.6	10825.4	9065.0	5599.6	3590.0	3193.2	2955.5	2692.5	2528.7
13361.0	45°	12733.5	11981.3	11404.5	9062.7	5131.2	3407.7	3119.3	2884.0	2593.3	2422.6
14244.7	47.5°	13538.7	12717.3	11905.2	8915.1	4725.2	3433.1	3077.8	2729.4	2408.7	2242.6
15137.6	50°	14346.2	13522.6	12389.7	8638.2	4552.1	3377.8	2923.2	2512.6	2134.2	1984.2
15975.1	52.5°	15146.8	14378.5	12807.3	8243.7	4376.8	3172.4	2724.8	2231.1	2021.1	1917.3
16840.3	55°	15952.0	15225.3	13261.8	7669.2	3938.4	2932.5	2392.6	2124.9	1931.1	1836.5
17687.1	57.5°	16759.6	16203.5	13693.3	7094.7	3387.0	2637.1	2210.3	1995.7	1841.2	1760.4
18395.4	60°	17599.4	17322.5	14138.6	6566.3	2842.5	2258.8	2076.5	1891.9	1735.0	1645.0
19076.0	62.5°	18464.6	18554.6	14487.0	5885.7	2341.8	2028.0	1956.5	1767.3	1615.0	1529.7
19639.0	65°	19336.7	19742.8	14715.4	4942.0	1898.8	1808.9	1827.3	1631.2	1476.6	1402.8
20052.0	67.5°	19994.3	20598.8	14650.8	3740.0	1557.4	1601.2	1665.8	1488.1	1342.8	1285.1
19985.0	70°	20068.1	20497.2	14014.0	2561.0	1303.6	1398.2	1485.8	1347.4	1197.4	1155.9
19043.7	72.5°	19085.2	19112.9	12239.7	1672.7	1102.8	1227.4	1296.7	1204.4	1059.0	1017.5
16660.4	75°	16508.1	15806.7	8986.6	1102.8	922.9	1054.4	1119.0	1054.4	913.7	922.9
12465.8	77.5°	12507.4	11194.6	5456.5	784.5	770.6	886.0	973.6	927.5	807.5	906.7
6268.7	80°	6444.0	6056.4	2434.1	586.0	609.1	708.3	800.6	740.6	639.1	609.1
1400.5	82.5°	1476.6	1716.6	959.8	419.9	440.7	509.9	611.4	556.0	459.1	387.6
583.7	85°	516.8	565.3	424.5	263.0	258.4	318.4	415.3	371.5	311.5	249.2
246.9	87.5°	163.8	214.6	159.2	106.1	110.7	143.0	191.5	175.3	145.4	94.6
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>
4900.5
5034.3
5246.6
5488.8
5710.3
5832.6
5959.5
6054.1
6070.3
5998.7
5731.1
5299.7
4741.3
4159.9
3594.6
3105.5
2738.7
2561.0
2450.3
2265.7
1993.4
1917.3
1827.3
1746.6
1638.1
1527.4
1400.5
1287.4
1158.2
1015.2
890.6
798.3
556.0
383.0
263.0
99.2
0.0

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