

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: P957574

Luminaire Tested: **GALN-SB9D-850-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957574  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-850-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

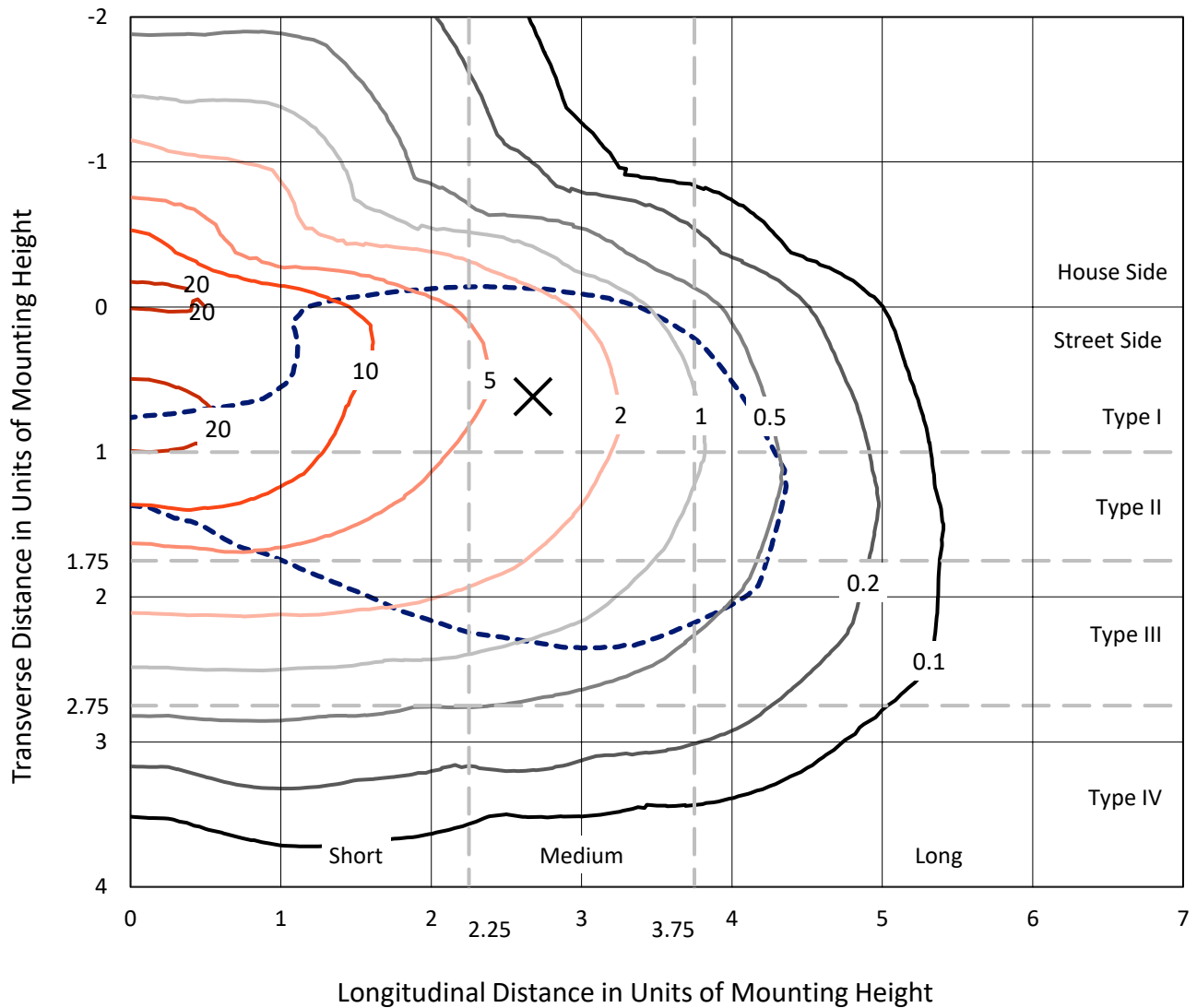
Lumens per Lamp: N/A  
Luminaire Lumens: 91015 lumens  
Efficiency: N/A  
Efficacy: 138.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): 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

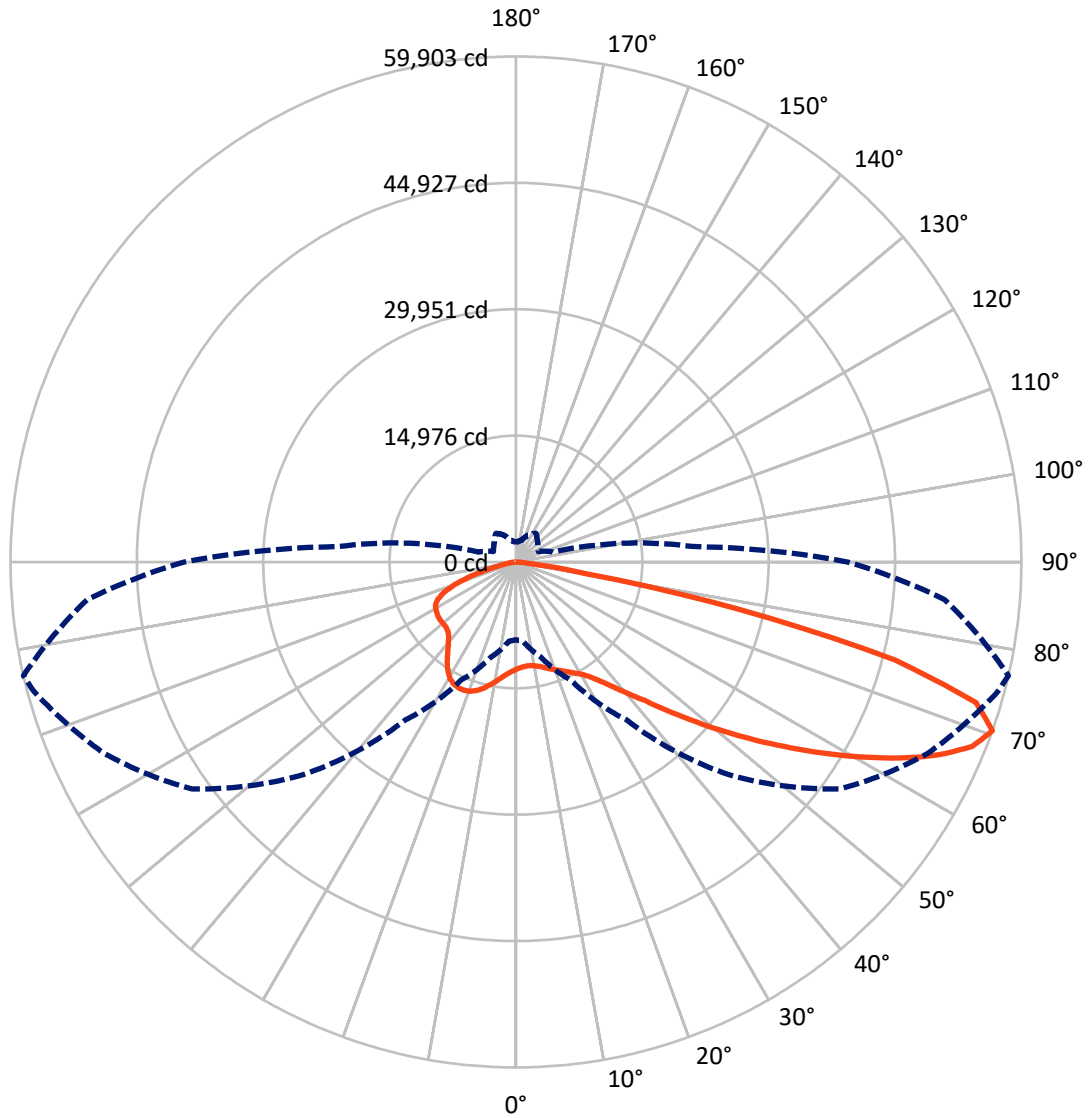
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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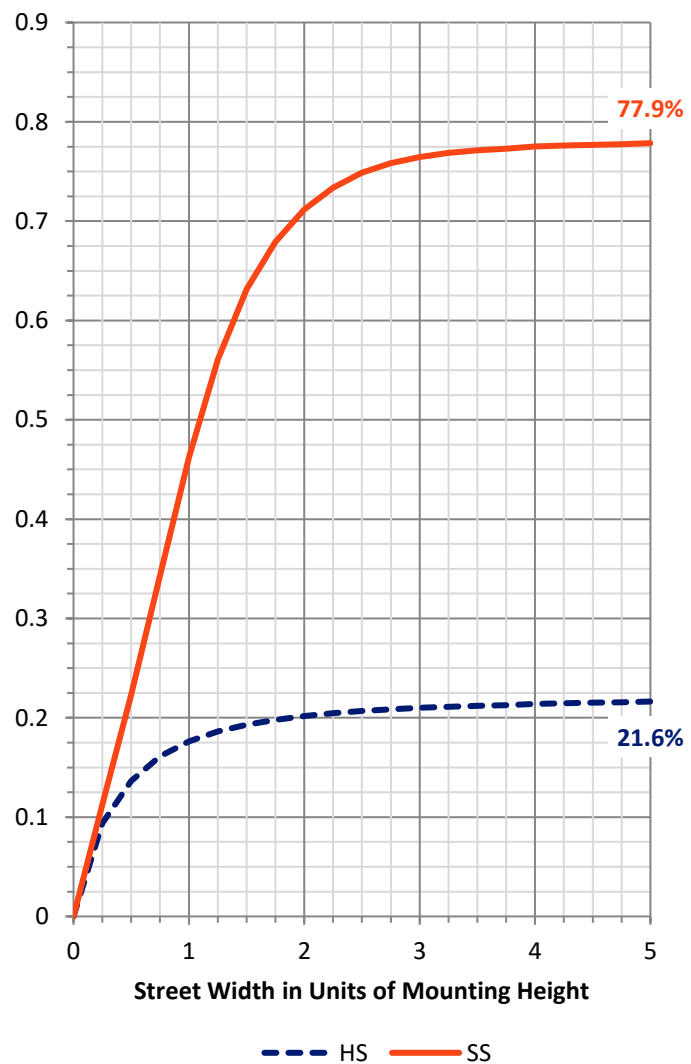
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19930.9	0.0	19930.9
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	71084.1	0.0	71084.1
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	91015.0	0.0	91015.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1211.0	1.3
10°-20°	3495.0	3.8
20°-30°	5977.0	6.6
30°-40°	9611.6	10.6
40°-50°	15006.3	16.5
50°-60°	20044.8	22.0
60°-70°	21364.7	23.5
70°-80°	13152.0	14.5
80°-90°	1152.5	1.3
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°	91015.0	100.0
0°-180°	91015.0	100.0

**Coefficient of Utilization**



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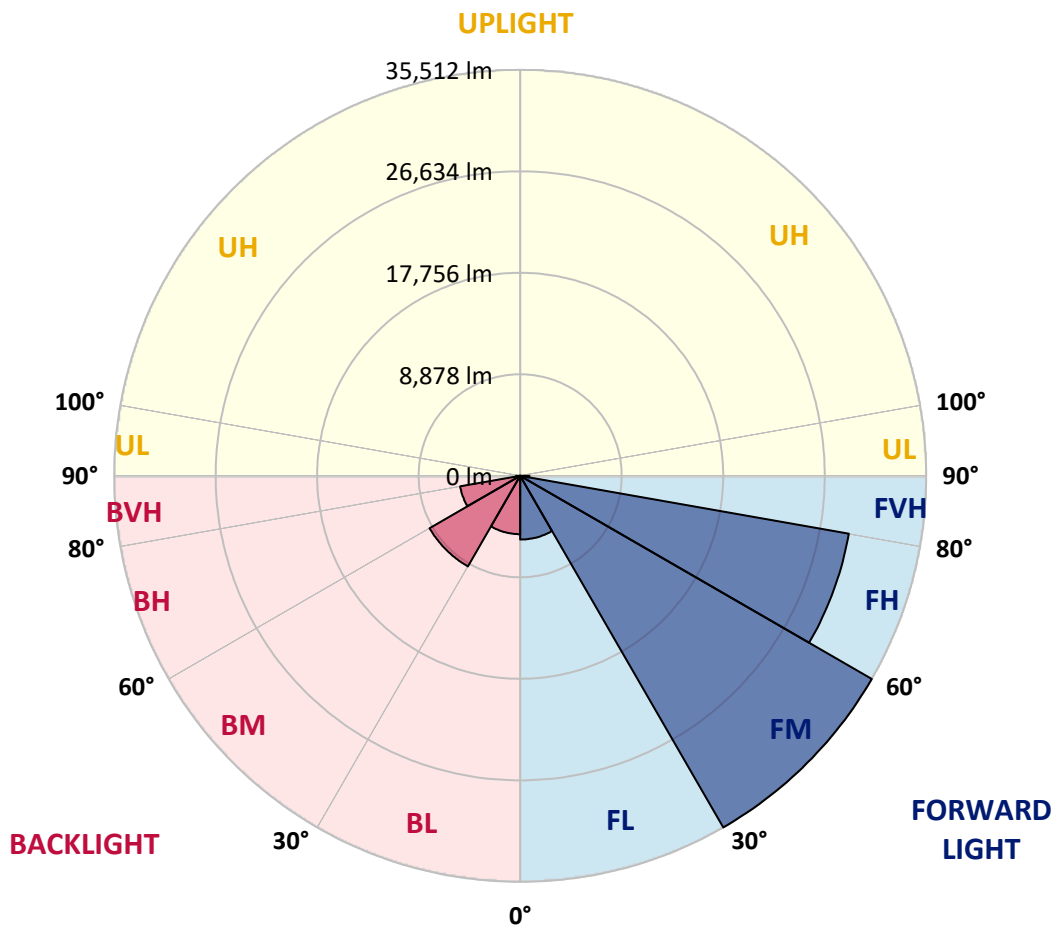
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5576.1	6.1			
FM (30°-60°)	35512.1	39.0			
FH (60°-80°)	29190.0	32.1			G5
FVH (80°-90°)	805.9	0.9			G5
BL (0°-30°)	5106.9	5.6	B5		
BM (30°-60°)	9150.7	10.1	B5		
BH (60°-80°)	5326.7	5.9	B5		G5
BVH (80°-90°)	346.6	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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	12697.4	12697.4	12697.4	12697.4	12697.4	12697.4	12697.4	12697.4	12697.4	12697.4
2.5°	11704.6	11699.9	11760.5	11779.1	11891.0	11970.3	12119.4	12277.9	12483.0	12506.3
5°	11028.7	11028.7	11098.6	11173.2	11317.7	11476.2	11704.6	11979.6	12333.8	12389.8
7.5°	10455.3	10492.6	10553.2	10697.7	10865.5	11093.9	11443.5	11835.1	12301.2	12389.8
10°	9993.9	10035.8	10110.4	10226.9	10478.6	10795.6	11252.4	11755.8	12380.5	12520.3
12.5°	9849.4	9891.3	9933.3	10021.8	10254.9	10627.8	11173.2	11793.1	12571.6	12711.4
15°	10185.0	10236.2	10203.6	10180.3	10301.5	10641.8	11210.5	11928.3	12809.3	13009.7
17.5°	10958.8	10977.4	10902.8	10683.7	10665.1	10846.9	11387.6	12114.8	13107.6	13326.7
20°	12208.0	12175.4	12021.5	11588.0	11341.0	11303.7	11690.6	12394.4	13415.3	13648.3
22.5°	13904.7	13867.4	13559.8	12874.6	12324.5	11960.9	12128.7	12758.0	13760.2	14021.2
25°	16020.9	15969.7	15517.5	14585.3	13732.2	12832.6	12725.4	13238.1	14184.4	14426.8
27.5°	18491.4	18449.5	17960.0	16729.5	15498.9	14025.9	13466.5	13802.2	14627.2	14902.2
30°	21148.4	21269.6	20402.6	19078.8	17521.9	15582.8	14464.1	14496.7	15200.5	15447.6
32.5°	24271.5	24481.2	23437.1	21759.0	19633.5	17274.8	15722.6	15466.2	16034.9	16240.0
35°	27366.6	27604.3	26737.3	24882.1	22434.9	19269.9	17037.1	16580.3	17144.3	17368.1
37.5°	30042.2	30359.1	29911.7	28298.8	25432.1	21675.1	18752.5	17890.1	18510.1	18789.8
40°	32153.8	32638.5	32605.9	31599.1	28965.4	24593.1	20929.3	19507.6	20206.8	20509.8
42.5°	33869.1	34288.6	34652.2	34600.9	32652.5	27907.3	23488.4	21609.9	22141.2	22490.8
45°	35053.1	35500.6	36283.7	37127.4	36199.8	31454.6	26420.3	24103.7	24588.4	25115.2
47.5°	36111.2	36619.3	37635.5	38973.3	39211.0	35015.8	29632.0	27007.7	27450.5	27995.9
50°	36204.4	36642.6	38218.1	40115.3	41350.5	38437.2	33081.4	30265.9	30680.8	31263.4
52.5°	33953.0	34642.9	37393.1	40082.6	42334.1	41299.3	36507.4	33654.7	34120.8	34820.0
55°	26355.1	27366.6	34973.8	38833.4	41984.5	43149.8	39765.7	37257.9	37854.5	38586.4
57.5°	22700.6	23143.4	27762.8	36558.7	40390.3	43629.9	42515.9	40898.4	41858.6	42660.4
60°	20402.6	20770.8	23502.4	33020.8	38292.7	42870.1	44641.4	44291.8	45951.2	46906.8
62.5°	17941.4	18291.0	20775.5	27571.7	35607.8	41606.9	45983.9	47424.2	50146.4	51190.6
65°	15498.9	15797.2	18179.1	23166.7	32195.7	40343.7	46678.4	50132.4	54029.3	55110.7
67.5°	12776.7	13023.7	15275.1	19544.9	28047.1	38614.3	47023.3	52262.7	57408.8	58336.4
70°	9220.1	9411.2	11737.2	15456.9	22840.4	35640.4	46883.5	53772.9	59161.4	59902.6
72.5°	4358.3	4530.8	7262.3	10035.8	16132.8	29851.1	44054.1	52575.0	57380.8	57012.5
75°	2326.0	2475.2	4171.9	5505.0	8520.9	20463.2	36050.6	45289.3	48184.0	46394.1
77.5°	1575.5	1692.1	2582.4	3304.9	3892.2	9714.2	23171.4	31356.7	30168.0	27212.8
80°	1249.2	1370.4	2116.2	2237.4	1883.2	3510.0	9574.3	14515.3	10427.4	8339.1
82.5°	960.2	1095.4	1780.6	1622.1	1025.5	1440.3	2787.5	4591.4	2670.9	2032.3
85°	587.3	731.8	1398.4	1034.8	578.0	657.2	946.2	1277.2	815.7	680.6
87.5°	298.3	419.5	708.5	377.6	261.0	153.8	251.7	251.7	214.4	186.5
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°
12697.4	0°	12697.4	12697.4	12697.4	12697.4	12697.4	12697.4	12697.4	12697.4	12697.4	12697.4
12632.2	2.5°	12744.0	12837.3	12995.7	13144.9	13261.4	13373.3	13485.2	13545.8	13564.4	13639.0
12702.1	5°	12893.2	13065.7	13373.3	13662.3	13844.1	13956.0	14035.2	14081.8	14091.2	14114.5
12893.2	7.5°	13168.2	13443.2	13872.1	14161.1	14296.3	14286.9	14254.3	14137.8	14091.2	14049.2
13172.9	10°	13555.1	13918.7	14445.4	14645.9	14561.9	14338.2	14049.2	13708.9	13550.4	13396.6
13555.1	12.5°	14035.2	14496.7	15014.1	15004.8	14589.9	14016.6	13345.3	12823.3	12492.3	12254.6
14025.9	15°	14617.9	15149.3	15545.5	15228.5	14319.6	13289.4	12305.9	11625.3	11327.0	11066.0
14501.4	17.5°	15219.2	15787.9	15969.7	15158.6	13639.0	12212.6	11098.6	10562.5	10268.9	10129.0
15014.1	20°	15806.5	16370.5	16221.4	14757.7	12604.2	10991.4	9998.5	9704.9	9644.3	9676.9
15512.9	22.5°	16426.5	16929.9	16272.7	13983.9	11285.0	9742.1	9196.8	9206.1	9341.3	9439.2
16034.9	25°	17060.4	17400.7	16137.5	12865.2	9868.0	8823.9	8688.7	8837.9	9103.5	9294.7
16622.3	27.5°	17671.0	17820.2	15843.8	11480.8	8651.4	8166.6	8189.9	8497.6	8898.5	9164.1
17335.4	30°	18360.9	18193.1	15279.8	9923.9	7807.7	7602.6	7798.4	8157.3	8558.2	8795.9
18235.1	32.5°	19139.4	18514.7	14384.8	8483.6	7211.1	7150.5	7472.1	7705.2	7882.3	7952.2
19428.4	35°	20108.9	18966.9	13238.1	7472.1	6675.0	6819.5	7127.2	7010.6	6940.7	6903.4
21031.9	37.5°	21367.5	19577.5	11895.7	6814.8	6241.5	6581.8	6707.6	6344.1	6069.0	5933.9
22975.6	40°	22882.4	20472.5	10604.5	6306.8	5966.5	6376.7	6157.6	5719.4	5369.8	5178.7
25161.8	42.5°	24565.1	21409.4	9518.4	5924.5	5812.7	6208.9	5752.1	5230.0	4666.0	4605.4
27767.5	45°	26331.8	22374.3	8777.3	5630.9	5738.1	6064.4	5519.0	4675.3	4274.4	4521.5
30382.5	47.5°	28098.4	23260.0	8329.8	5411.8	5700.8	5901.2	5313.9	4367.7	4083.3	4442.2
33183.9	50°	30065.5	24052.4	8129.3	5253.3	5658.8	5836.0	5006.3	4288.4	3882.9	4120.6
36083.2	52.5°	32018.6	24667.7	7980.2	5094.8	5598.2	5784.7	4857.1	4195.2	3640.5	3654.5
39001.2	55°	33967.0	25068.6	7817.0	4885.1	5463.1	5672.8	4843.1	4092.6	3458.7	3393.4
42087.0	57.5°	36046.0	25297.0	7616.6	4652.0	5230.0	5388.5	4829.1	4013.4	3402.8	3295.5
45242.7	60°	38162.2	25632.6	7355.6	4367.7	4917.7	5048.2	4796.5	3985.4	3370.1	3188.3
48216.6	62.5°	40059.3	25749.1	7043.2	4097.3	4516.8	4712.6	4726.6	3962.1	3281.6	2969.3
50687.1	65°	41303.9	25245.7	6497.9	3789.6	4083.3	4367.7	4591.4	3882.9	3123.1	2810.8
51908.4	67.5°	41252.6	23810.0	5644.9	3393.4	3663.8	3985.4	4395.6	3747.7	2932.0	2615.0
50985.5	70°	39332.2	20975.9	4563.4	2932.0	3202.3	3575.2	4143.9	3547.3	2703.6	2400.6
45336.0	72.5°	33733.9	16417.2	3314.2	2391.3	2666.3	3151.0	3817.6	3304.9	2470.5	2209.5
33505.5	75°	24099.0	10390.1	2246.8	1836.6	2074.3	2670.9	3412.1	3020.5	2256.1	2218.8
16780.7	77.5°	12310.5	4964.3	1487.0	1342.5	1445.0	2106.9	2866.7	2698.9	2288.7	1831.9
4773.2	80°	4004.1	1831.9	936.9	913.6	960.2	1403.1	2218.8	2214.1	1734.0	1244.6
1156.0	82.5°	1277.2	787.8	610.6	587.3	564.0	881.0	1547.6	1752.7	1170.0	787.8
414.9	85°	508.1	470.8	358.9	331.0	237.7	414.9	811.1	1165.3	871.7	568.7
107.2	87.5°	186.5	186.5	97.9	69.9	51.3	139.8	219.1	349.6	498.8	293.7
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>
12697.4
13681.0
14151.8
14058.5
13350.0
12198.7
11038.0
10171.0
9662.9
9462.5
9345.9
9229.4
8851.8
7989.5
6940.7
5966.5
5192.7
4666.0
4652.0
4610.0
4297.7
3752.4
3440.1
3309.5
3202.3
2969.3
2810.8
2629.0
2428.5
2195.5
2092.9
1631.5
1100.1
783.1
582.7
289.0
0.0

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