

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: P944745

Luminaire Tested: **GALN-SB9D-830-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944745  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-830-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 82522 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B5 - U0 - G5

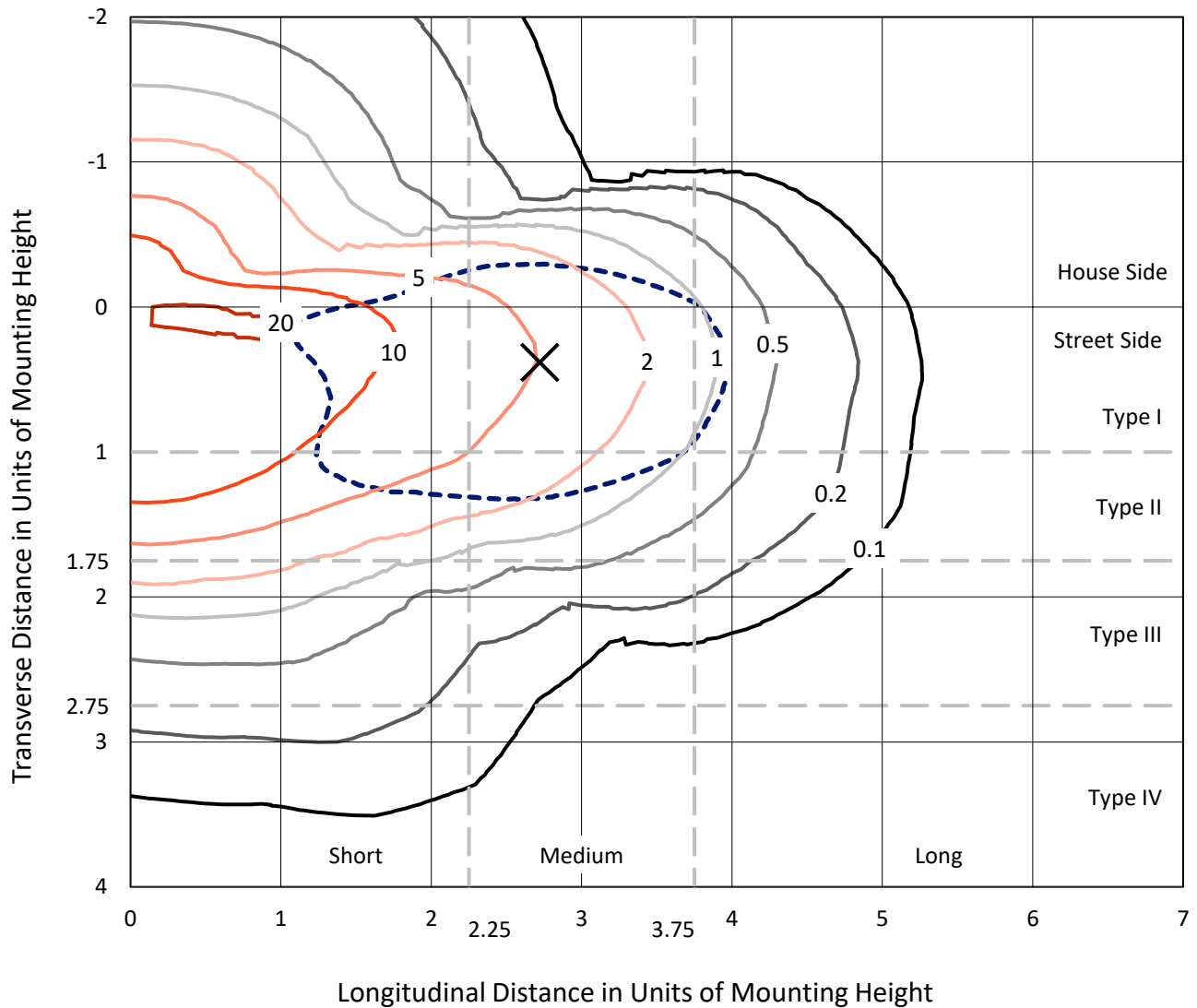
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

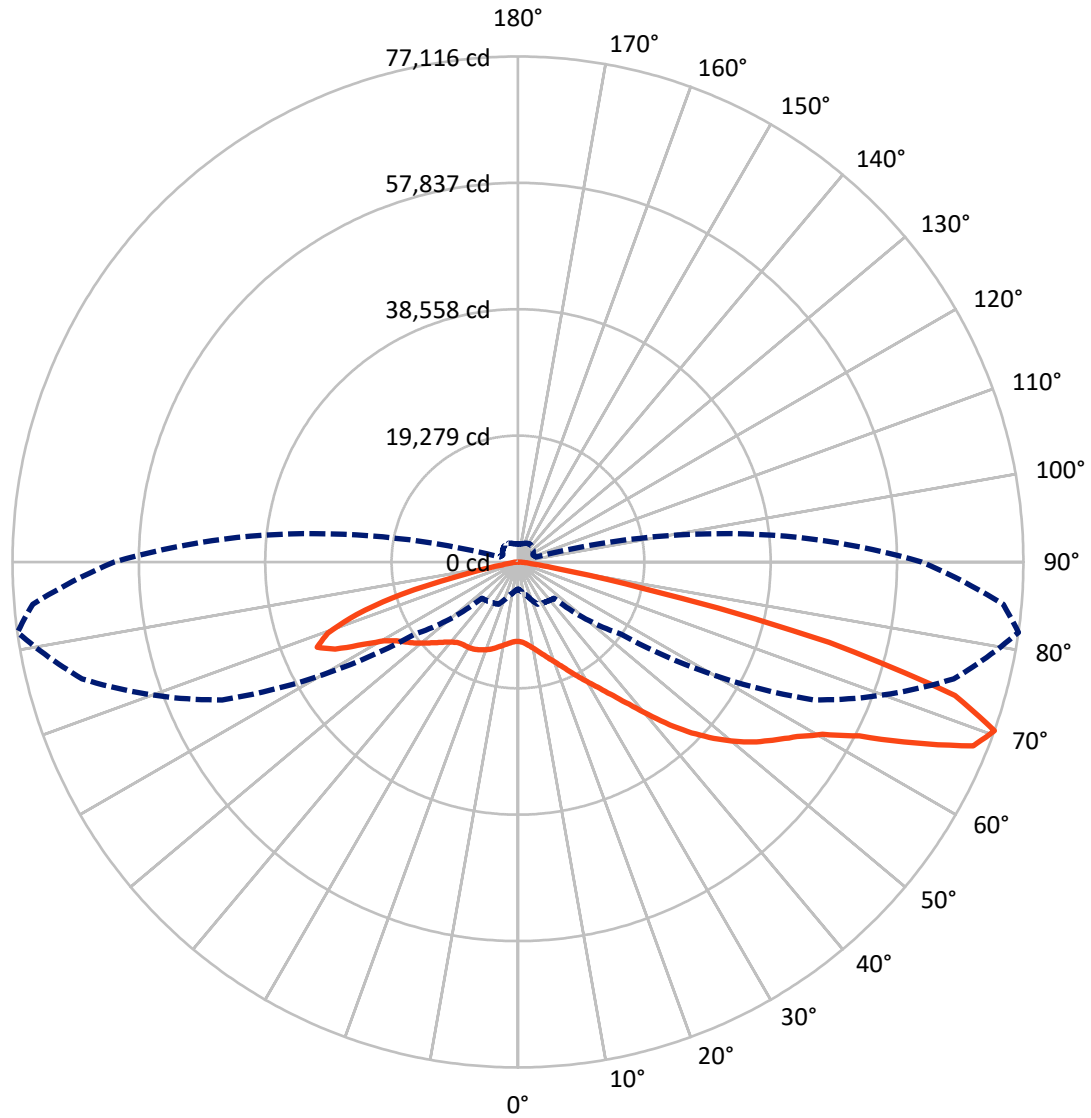
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20343.7	0.0	20343.7
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	62178.3	0.0	62178.3
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	82522.0	0.0	82522.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1142.3	1.4
10°-20°	3282.0	4.0
20°-30°	5490.5	6.7
30°-40°	8577.5	10.4
40°-50°	13660.7	16.6
50°-60°	19010.5	23.0
60°-70°	19885.8	24.1
70°-80°	10393.4	12.6
80°-90°	1079.2	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°	82522.0	100.0
0°-180°	82522.0	100.0

**Coefficient of Utilization**



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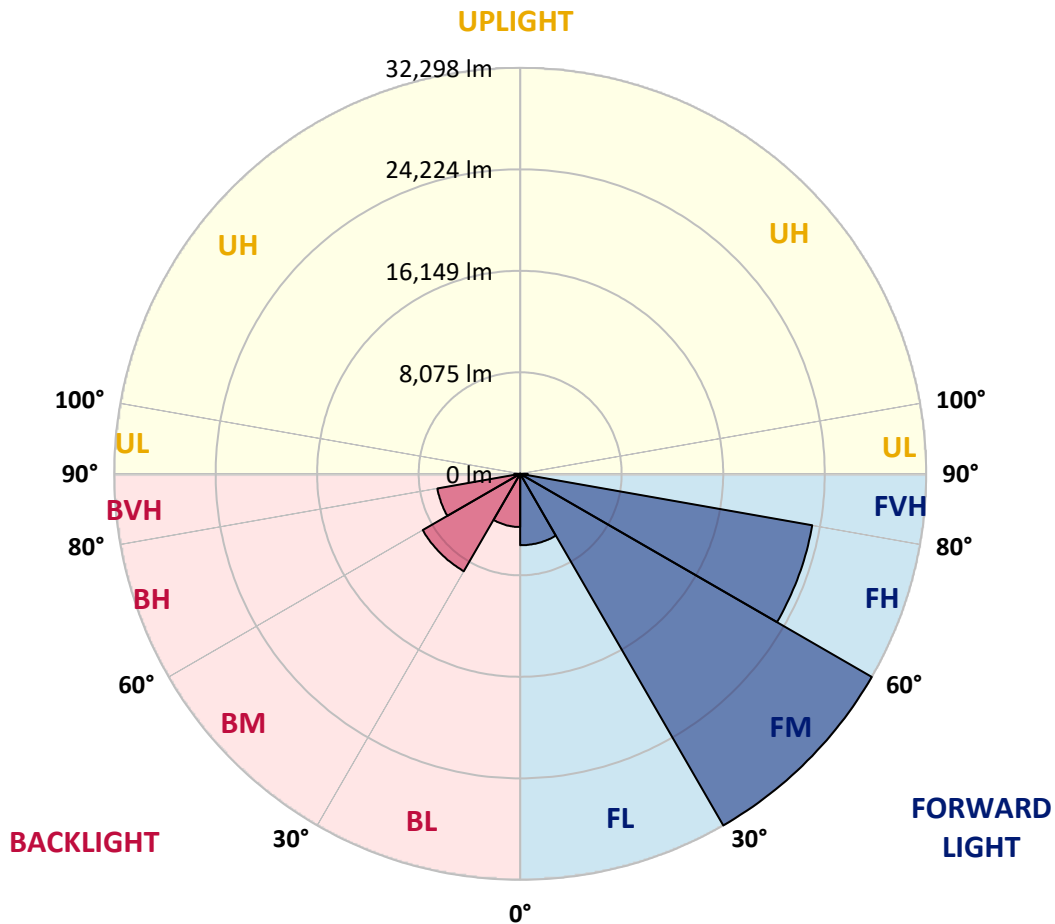
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5682.6	6.9			
FM (30°-60°)	32298.3	39.1			
FH (60°-80°)	23593.3	28.6			G5
FVH (80°-90°)	604.2	0.7			G4/750
BL (0°-30°)	4232.2	5.1	B4/5000		
BM (30°-60°)	8950.4	10.8	B5		
BH (60°-80°)	6686.0	8.1	B5		G5
BVH (80°-90°)	475.1	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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	12098.8	12098.8	12098.8	12098.8	12098.8	12098.8	12098.8	12098.8	12098.8	12098.8
2.5°	12387.8	12457.8	12435.9	12414.0	12414.0	12383.4	12379.0	12335.2	12300.2	12243.3
5°	12545.4	12619.8	12611.1	12628.6	12685.5	12698.7	12711.8	12685.5	12615.5	12545.4
7.5°	12405.3	12488.5	12514.7	12619.8	12795.0	12952.6	13070.9	13119.0	13053.3	12952.6
10°	11932.4	12024.3	12116.3	12365.9	12676.8	13049.0	13364.2	13552.5	13539.4	13443.1
12.5°	10973.4	11069.7	11266.8	11752.8	12322.1	12978.9	13565.7	13959.8	14095.5	14025.5
15°	10207.1	10290.3	10439.2	10938.4	11678.4	12676.8	13640.1	14406.4	14752.3	14712.9
17.5°	10185.2	10220.2	10312.2	10548.6	11117.9	12203.8	13561.3	14844.3	15505.5	15501.1
20°	10570.5	10583.7	10636.2	10684.4	11008.4	11844.8	13359.9	15207.7	16350.6	16350.6
22.5°	11104.8	11096.0	11148.5	11104.8	11262.4	11814.1	13232.9	15527.4	17292.1	17362.1
25°	11906.1	11862.3	11849.2	11748.4	11779.1	12098.8	13373.0	15890.8	18408.7	18553.2
27.5°	12974.5	12904.5	12856.3	12624.2	12545.4	12685.5	13802.1	16328.7	19652.3	19901.9
30°	14367.0	14240.0	14170.0	13767.1	13482.5	13504.4	14450.2	16911.1	20952.8	21355.6
32.5°	16267.4	16070.4	15882.1	15220.9	14699.8	14529.0	15286.6	17716.8	22362.8	23006.5
35°	18395.5	18237.9	18036.5	17016.2	16214.9	15820.8	16416.3	18842.2	24013.6	25033.9
37.5°	20444.8	20309.1	20405.4	19030.5	17997.1	17423.4	17896.4	20352.9	26049.8	27556.1
40°	22564.2	22459.1	22472.2	21158.6	19954.4	19310.7	19691.7	22248.9	28383.7	30555.6
42.5°	24867.5	24788.7	24525.9	23361.2	22008.1	21408.2	21758.5	24438.4	30888.4	33971.1
45°	27446.6	27398.5	27153.2	25817.7	24267.6	23593.2	24066.1	26855.5	33406.2	37185.2
47.5°	29675.5	29714.9	29684.2	28558.8	26951.8	25962.2	26527.1	29377.7	35748.9	40206.6
50°	30748.3	30954.1	31256.2	30905.9	29907.5	28900.4	29009.9	31812.3	37982.1	43039.7
52.5°	30187.8	30577.5	31400.7	31961.2	32346.6	32136.4	31843.0	34229.5	40084.0	45596.9
55°	28099.1	28646.4	30012.6	31365.7	33331.8	34860.0	35245.3	36909.3	42133.3	47847.7
57.5°	24293.8	25182.8	26408.8	29145.6	32456.0	36178.0	39212.6	40627.0	44305.2	50251.7
60°	17769.4	18960.4	20484.3	24556.6	29390.8	35473.0	42588.7	46337.0	47392.3	53365.0
62.5°	11371.9	12107.5	13508.7	17344.6	22901.4	31860.5	43622.1	53474.5	52625.0	58470.8
65°	7785.6	8258.5	9541.5	11695.9	14804.9	23715.8	40854.7	58825.4	60936.0	66562.9
67.5°	5657.5	6016.5	7111.2	8998.5	9646.6	14034.2	31702.9	58580.2	69015.0	74900.2
70°	4124.9	4378.8	5298.4	7111.2	7422.1	7807.5	19205.6	49796.3	68839.9	77115.9
72.5°	3056.4	3231.6	3849.0	5517.3	6007.8	5272.1	9506.5	36191.2	59153.9	69750.7
75°	2211.3	2342.7	2798.1	4221.2	4808.0	4015.4	4742.3	21149.8	41261.9	49065.0
77.5°	1690.2	1790.9	2088.7	3091.5	3849.0	3012.6	2942.6	9729.8	19564.7	19661.0
80°	1357.4	1423.1	1585.1	2176.3	2951.3	2255.1	1917.9	3927.8	6182.9	5232.7
82.5°	998.4	1107.8	1339.9	1528.2	2110.6	1554.5	1169.2	1983.6	2351.4	2023.0
85°	569.3	643.7	810.1	1094.7	1348.7	950.2	670.0	880.1	1094.7	897.7
87.5°	201.4	262.7	284.6	429.1	586.8	394.1	258.4	254.0	359.1	267.1
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°
12098.8	0°	12098.8	12098.8	12098.8	12098.8	12098.8	12098.8	12098.8	12098.8	12098.8	12098.8
12230.1	2.5°	12186.3	12164.4	12076.9	11958.6	11836.0	11717.8	11678.4	11595.2	11538.3	11507.6
12514.7	5°	12431.5	12361.5	12155.7	11893.0	11617.1	11319.3	11109.1	10916.5	10776.3	10645.0
12904.5	7.5°	12781.9	12659.2	12304.6	11844.8	11354.4	10859.5	10491.7	10211.5	10023.2	9900.6
13359.9	10°	13189.1	13000.8	12457.8	11770.3	11012.8	10303.4	9869.9	9629.1	9510.9	9445.2
13880.9	12.5°	13657.6	13390.5	12615.5	11599.6	10491.7	9681.6	9383.9	9313.8	9318.2	9322.6
14537.8	15°	14235.6	13863.4	12742.4	11227.4	9813.0	9204.3	9151.8	9265.6	9383.9	9440.8
15282.2	17.5°	14888.1	14362.6	12764.3	10614.3	9147.4	8897.8	9064.2	9309.4	9489.0	9567.8
16114.2	20°	15588.7	14870.6	12606.7	9747.3	8600.1	8648.2	8946.0	9261.3	9458.3	9559.0
17064.4	22.5°	16390.0	15413.5	12230.1	8836.5	8153.4	8376.7	8727.0	9033.6	9239.4	9340.1
18181.0	25°	17305.2	16022.2	11639.0	8070.2	7768.1	8070.2	8420.5	8674.5	8840.9	8932.8
19428.9	27.5°	18321.1	16657.1	10850.8	7461.6	7430.9	7754.9	8043.9	8241.0	8328.6	8398.6
20755.7	30°	19341.4	17235.1	9896.2	7001.8	7137.5	7444.0	7649.8	7737.4	7763.7	7776.8
22235.8	32.5°	20444.8	17734.3	8893.4	6620.8	6857.3	7141.9	7264.5	7303.9	7181.3	7098.1
24031.1	35°	21780.4	18268.6	7912.6	6318.7	6581.4	6826.6	6866.0	6831.0	6686.5	6515.7
26281.8	37.5°	23431.2	18934.1	7128.8	6104.1	6323.1	6485.1	6436.9	6428.1	6441.3	6239.9
28988.0	40°	25454.2	19801.2	6555.1	5937.7	6112.9	6147.9	6012.2	6086.6	6152.3	5845.8
31956.8	42.5°	27700.6	20847.7	6191.7	5823.9	5937.7	5854.5	5644.3	5727.5	5718.8	5315.9
34938.8	45°	29990.7	21986.2	6064.7	5740.7	5775.7	5609.3	5377.2	5399.1	5215.2	4851.8
37798.2	47.5°	32267.7	23207.9	6143.5	5670.6	5574.3	5386.0	5206.5	5110.1	4838.6	4567.1
40539.4	50°	34500.9	24490.9	6432.5	5530.5	5298.4	5188.9	5057.6	4886.8	4597.8	4365.7
43131.7	52.5°	36572.1	25782.7	6756.6	5298.4	4952.5	5018.2	4935.0	4737.9	4453.3	4216.8
45583.8	55°	38533.9	27074.4	6883.5	4978.8	4628.4	4869.3	4821.1	4457.7	4116.1	3923.4
48149.8	57.5°	40670.7	28628.9	6743.4	4571.5	4365.7	4698.5	4514.6	4111.7	3914.7	3770.2
51490.9	60°	43630.8	31067.9	6441.3	4067.9	4116.1	4444.5	4129.3	3962.9	3748.3	3586.3
56500.3	62.5°	48548.3	35617.5	5955.2	3568.8	3822.7	4067.9	3945.3	3778.9	3560.0	3402.4
65065.3	65°	55817.2	41940.6	5040.1	3179.0	3494.3	3700.1	3748.3	3581.9	3354.2	3187.8
72570.6	67.5°	61947.6	45907.8	3814.0	2855.0	3157.1	3402.4	3538.1	3376.1	3135.3	2973.2
74326.6	70°	61610.4	43026.6	2911.9	2535.4	2859.4	3109.0	3284.1	3157.1	2898.8	2745.5
67513.1	72.5°	54722.5	35994.1	2355.8	2211.3	2557.2	2802.5	3012.6	2916.3	2653.6	2504.7
49459.1	75°	40202.2	25550.6	1882.9	1882.9	2180.7	2482.8	2714.9	2653.6	2412.7	2307.7
20764.5	77.5°	16946.1	10719.4	1475.7	1563.2	1812.8	2132.5	2421.5	2443.4	2233.2	2364.6
5491.1	80°	4505.8	2955.7	1125.4	1230.5	1423.1	1760.3	2106.2	2097.5	1869.8	1747.2
2040.5	82.5°	1716.5	1164.8	801.3	867.0	1029.0	1348.7	1668.3	1720.9	1493.2	1291.8
801.3	85°	661.2	499.2	494.8	521.1	599.9	893.3	1261.1	1304.9	1125.4	954.6
223.3	87.5°	170.8	148.9	183.9	175.2	275.9	477.3	722.5	748.8	687.5	398.5
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>
12098.8
11542.6
10697.5
9926.8
9462.7
9331.3
9436.4
9585.3
9585.3
9366.4
8959.1
8424.9
7807.5
7124.4
6524.5
6253.0
5854.5
5311.5
4864.9
4567.1
4348.2
4221.2
3905.9
3757.1
3577.5
3402.4
3196.6
2977.6
2758.7
2504.7
2277.0
2145.6
1624.6
1291.8
985.2
569.3
0.0

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