

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: P957513

Luminaire Tested: **GALN-SB9D-830-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957513  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
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-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

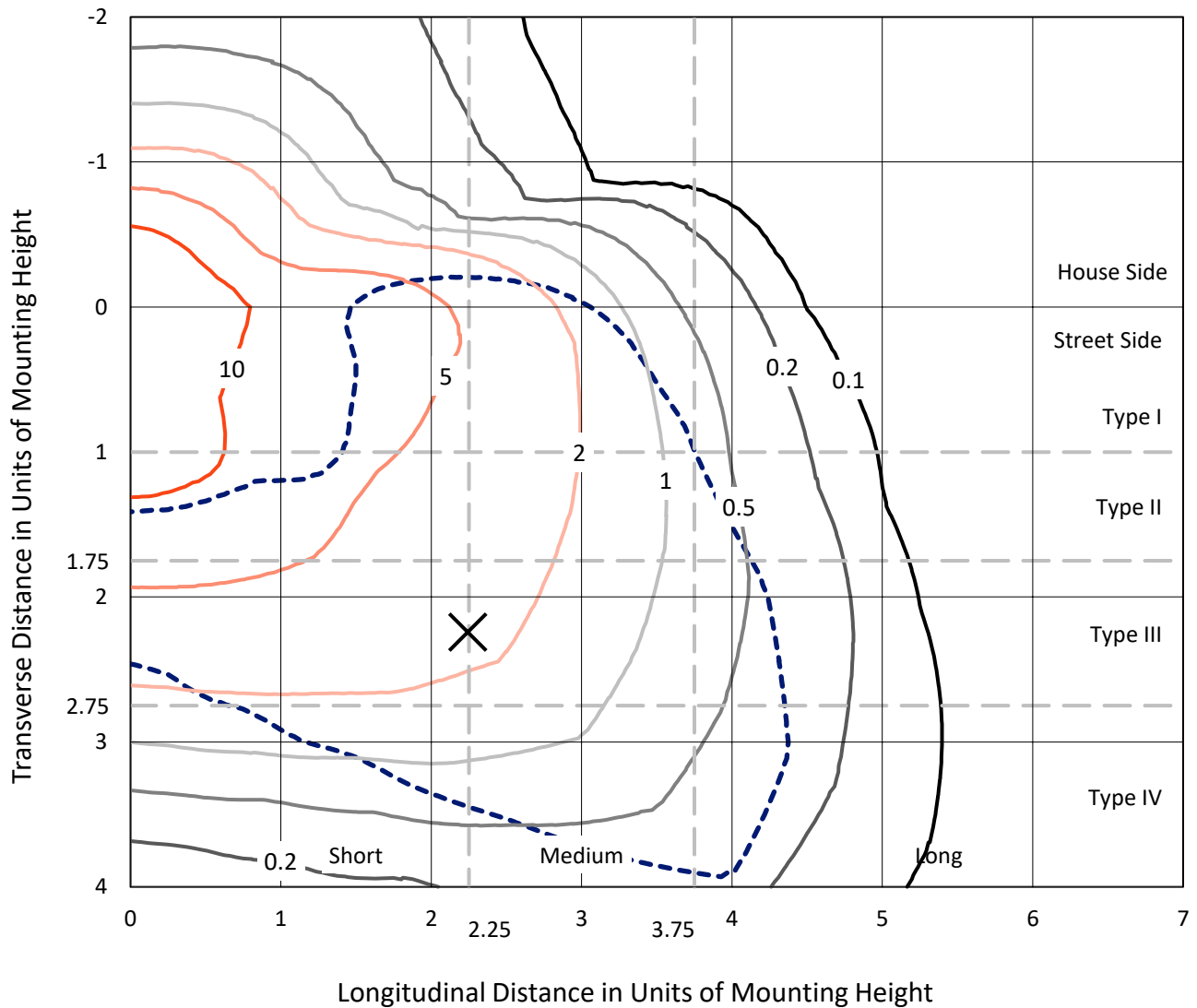
Lumens per Lamp: N/A  
Luminaire Lumens: 83121 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

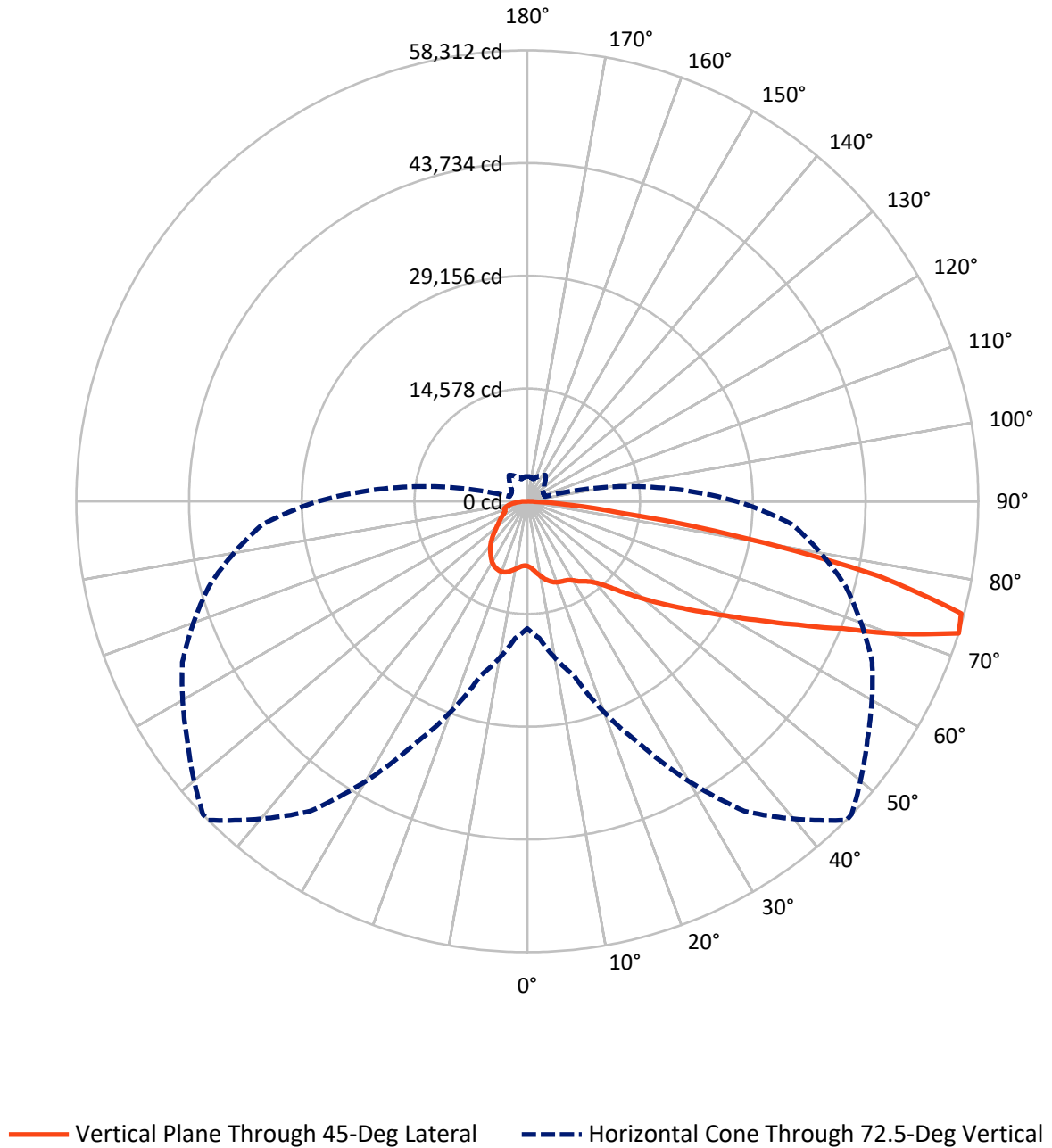
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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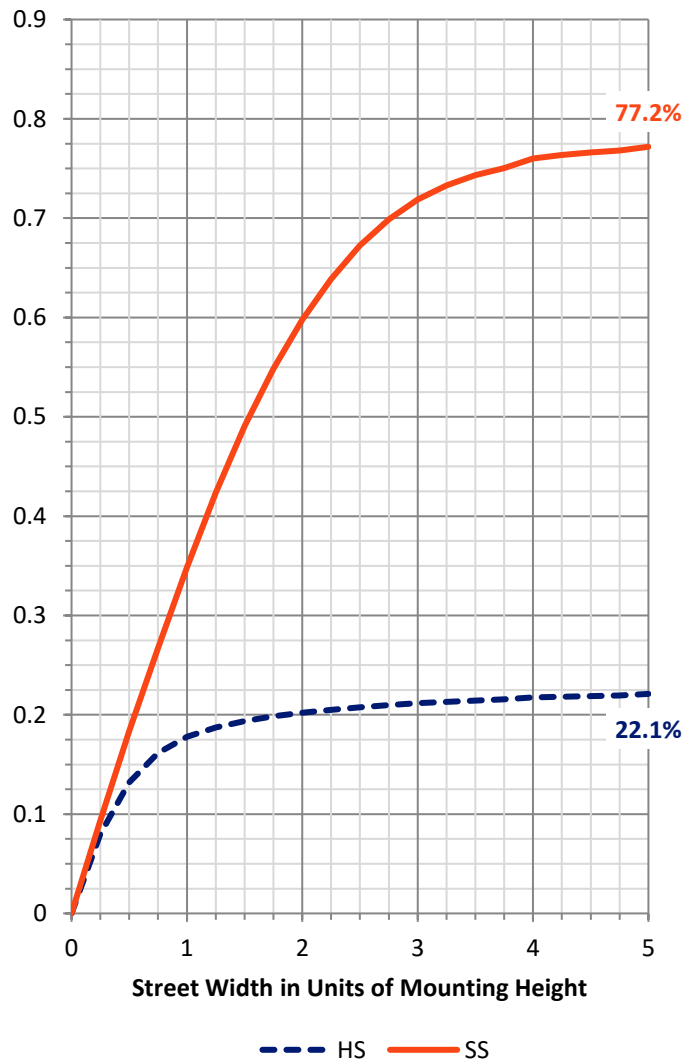
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18790.8	0.0	18790.8
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	64330.2	0.0	64330.2
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	83121.0	0.0	83121.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	853.5	1.0
10°-20°	2845.5	3.4
20°-30°	4950.0	6.0
30°-40°	7096.0	8.5
40°-50°	9991.7	12.0
50°-60°	15304.3	18.4
60°-70°	22170.5	26.7
70°-80°	17704.5	21.3
80°-90°	2205.0	2.7
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°	83121.0	100.0
0°-180°	83121.0	100.0

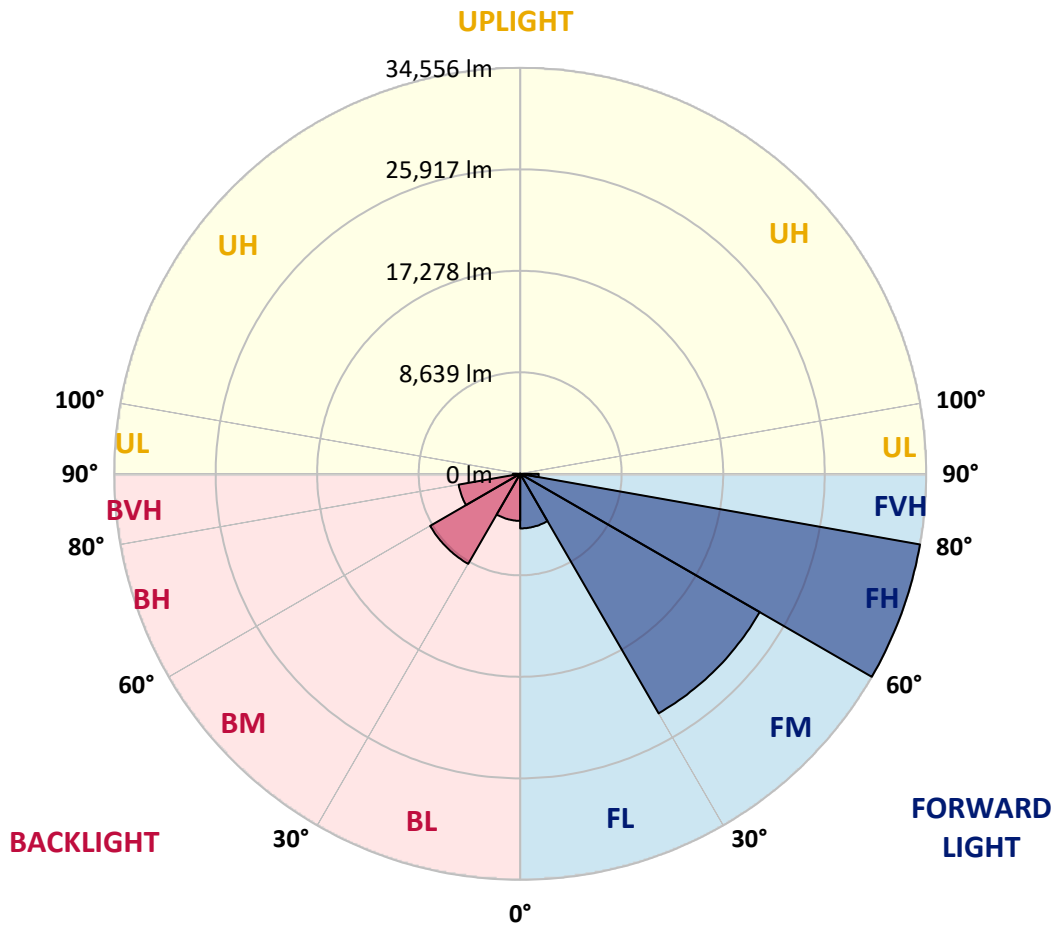


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4648.3	5.6			
FM (30°-60°)	23544.2	28.3			
FH (60°-80°)	34555.8	41.6			G5
FVH (80°-90°)	1581.9	1.9			G5
BL (0°-30°)	4000.7	4.8	B4/5000		
BM (30°-60°)	8847.8	10.6	B5		
BH (60°-80°)	5319.2	6.4	B5		G5
BVH (80°-90°)	623.1	0.7			G4/750
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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	8385.3	8385.3	8385.3	8385.3	8385.3	8385.3	8385.3	8385.3	8385.3	8385.3
2.5°	8713.7	8770.6	8718.1	8669.9	8648.0	8591.1	8586.7	8551.7	8529.8	8468.5
5°	9322.3	9396.8	9309.2	9212.9	9125.3	8985.2	8967.7	8867.0	8753.1	8621.7
7.5°	10009.8	10075.5	9974.8	9830.3	9677.0	9444.9	9440.6	9256.7	9077.1	8853.8
10°	10609.7	10697.3	10561.5	10364.5	10171.8	9909.1	9878.4	9668.3	9440.6	9151.6
12.5°	11139.5	11200.8	11069.5	10828.6	10605.3	10342.6	10303.2	10071.1	9817.1	9488.7
15°	11559.9	11638.7	11463.5	11205.2	10968.7	10710.4	10675.4	10465.2	10211.2	9865.3
17.5°	11835.7	11901.4	11721.9	11432.9	11205.2	10990.6	10964.4	10789.2	10565.9	10215.6
20°	11940.8	12010.9	11822.6	11529.2	11319.0	11152.7	11139.5	11012.5	10859.3	10539.6
22.5°	12045.9	12111.6	11866.4	11559.9	11376.0	11270.9	11266.5	11183.3	11122.0	10859.3
25°	12470.7	12488.2	12159.8	11717.5	11454.8	11362.8	11358.5	11354.1	11380.4	11174.5
27.5°	12838.5	12834.1	12553.9	12137.9	11730.7	11538.0	11533.6	11577.4	11660.6	11489.8
30°	13377.1	13328.9	12996.1	12562.6	12190.4	11892.7	11866.4	11827.0	11892.7	11756.9
32.5°	14519.9	14366.7	13828.1	13057.4	12571.4	12343.7	12308.6	12063.4	12089.7	12006.5
35°	16157.6	15956.1	15238.0	13994.5	13044.3	12720.2	12702.7	12391.8	12339.3	12264.9
37.5°	18106.1	17856.5	17020.2	15351.9	13858.7	13158.1	13131.8	12851.6	12637.0	12558.2
40°	20063.4	19748.1	19056.3	17007.0	15058.5	13889.4	13806.2	13381.4	13136.2	13004.9
42.5°	21963.8	21701.0	21109.9	18863.6	16538.5	14957.8	14773.9	14047.0	13863.1	13740.5
45°	23645.2	23408.8	22975.3	20847.2	18272.5	16411.5	16232.0	15045.4	14988.4	14988.4
47.5°	25011.4	24958.8	24499.1	22870.2	20317.4	18066.7	17755.8	16433.4	16586.7	16823.1
50°	26526.4	26381.9	25891.5	24862.5	22721.3	19962.7	19708.7	18136.7	18710.4	19358.4
52.5°	27918.9	27997.7	27450.3	26938.0	25436.1	22077.6	21631.0	20146.6	21385.8	22458.6
55°	29350.7	29355.1	29201.8	29131.8	28282.3	24415.9	23925.4	22563.7	24534.1	25865.2
57.5°	30695.0	30703.7	30931.4	31548.8	31583.9	27113.2	26557.1	25532.4	28032.7	29390.1
60°	31894.8	31956.1	32577.8	34022.8	34487.0	30204.6	29679.1	29039.8	31649.5	33015.7
62.5°	32297.6	32520.9	33904.6	35958.2	37355.0	33996.6	33479.9	33098.9	35450.3	36720.1
65°	31614.5	32126.8	34802.2	37556.5	40306.3	38502.3	37990.0	37574.0	39399.9	40595.3
67.5°	29937.5	30598.6	34749.7	39233.5	43888.1	43923.2	43445.9	42469.4	43634.2	44093.9
70°	25519.3	26508.9	31689.0	39859.7	47999.8	51336.4	50876.6	48363.2	47859.7	45635.2
72.5°	16442.2	17773.3	23334.3	34705.9	48914.9	58311.7	58285.4	53683.4	49195.2	42640.2
75°	5998.9	6813.3	10841.8	21784.2	41059.5	57957.0	58127.8	52772.6	44908.4	32936.9
77.5°	2185.0	2390.8	3538.0	8372.2	25252.2	46502.2	46856.9	42189.2	31964.8	16529.8
80°	1147.2	1261.1	1812.8	3249.0	10819.9	27616.7	28172.8	25072.7	15023.5	4978.6
82.5°	634.9	687.5	1015.9	1764.6	4873.5	11809.5	12142.3	9904.7	5285.1	2110.6
85°	341.5	363.4	477.3	963.3	2382.0	4094.1	4186.1	2960.0	2106.2	1239.2
87.5°	100.7	122.6	157.6	306.5	932.7	919.5	941.4	586.8	832.0	626.2
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°
8385.3	0°	8385.3	8385.3	8385.3	8385.3	8385.3	8385.3	8385.3	8385.3	8385.3	8385.3
8451.0	2.5°	8424.7	8411.6	8363.4	8341.5	8315.2	8310.9	8332.7	8337.1	8341.5	8345.9
8547.3	5°	8503.5	8459.7	8415.9	8389.7	8398.4	8402.8	8446.6	8477.2	8499.1	8516.7
8726.8	7.5°	8656.8	8621.7	8547.3	8542.9	8556.1	8595.5	8652.4	8722.5	8761.9	8792.5
8958.9	10°	8884.5	8818.8	8731.2	8744.3	8770.6	8827.5	8945.8	9002.7	9068.4	9125.3
9243.5	12.5°	9116.5	9059.6	8958.9	8967.7	9011.5	9112.2	9226.0	9296.1	9339.9	9383.6
9550.0	15°	9418.7	9318.0	9208.5	9208.5	9287.3	9396.8	9449.3	9506.2	9532.5	9580.7
9878.4	17.5°	9729.6	9598.2	9453.7	9444.9	9541.3	9593.8	9624.5	9633.2	9642.0	9694.5
10198.1	20°	10040.5	9896.0	9690.2	9672.6	9694.5	9685.8	9681.4	9672.6	9685.8	9751.5
10526.5	22.5°	10347.0	10180.6	9896.0	9817.1	9755.8	9672.6	9668.3	9663.9	9672.6	9738.3
10881.2	25°	10706.0	10504.6	10123.7	9887.2	9681.4	9567.6	9580.7	9585.1	9593.8	9646.4
11249.0	27.5°	11095.7	10872.4	10333.8	9865.3	9493.1	9414.3	9392.4	9405.5	9436.2	9519.4
11616.8	30°	11485.4	11222.7	10526.5	9777.7	9256.7	9147.2	9077.1	9107.8	9204.1	9287.3
11936.5	32.5°	11840.1	11577.4	10679.8	9585.1	8954.5	8783.8	8691.8	8731.2	8827.5	8858.2
12291.1	35°	12256.1	11958.3	10745.4	9278.6	8626.1	8363.4	8240.8	8183.9	8232.0	8201.4
12707.1	37.5°	12720.2	12409.4	10736.7	8875.7	8240.8	7938.7	7767.9	7553.3	7452.6	7347.5
13320.1	40°	13407.7	12961.1	10631.6	8389.7	7763.5	7487.6	7181.1	6817.7	6590.0	6384.2
14309.7	42.5°	14344.8	13727.4	10438.9	7855.5	7224.9	6966.6	6550.6	6125.9	5766.8	5425.3
15811.6	45°	15741.6	14730.1	10198.1	7286.2	6642.6	6388.6	5937.6	5460.3	5053.1	4615.2
17944.1	47.5°	17755.8	16078.7	9970.4	6638.2	6029.5	5797.5	5390.2	4948.0	4466.3	4041.6
21026.7	50°	20523.2	18014.1	9760.2	6007.6	5425.3	5250.1	4926.1	4475.1	3989.0	3647.5
24639.2	52.5°	24043.7	20645.8	9672.6	5399.0	4860.4	4794.7	4536.4	4116.0	3656.2	3367.3
28851.5	55°	28085.3	23794.1	9672.6	4816.6	4365.6	4387.5	4208.0	3818.3	3419.8	3161.5
33195.2	57.5°	32210.0	26981.8	9497.5	4278.0	3945.2	4037.2	3923.4	3581.8	3222.8	2955.7
37762.3	60°	36010.8	29652.8	8788.1	3787.6	3573.1	3717.6	3643.1	3349.7	2911.9	2688.5
41580.5	62.5°	38931.4	31159.1	7422.0	3397.9	3266.5	3432.9	3393.5	3043.2	2854.9	2763.0
44715.7	65°	40393.9	30913.9	5674.8	3052.0	3008.2	3266.5	3183.3	3170.2	3021.3	2916.2
45736.0	67.5°	39496.3	28803.4	4116.0	2798.0	2859.3	3113.3	3432.9	3485.5	3209.6	3003.8
42863.5	70°	35559.8	24985.1	3065.1	2557.2	2671.0	3117.7	3914.6	3647.5	3148.3	2907.5
34377.5	72.5°	27051.9	18631.5	2377.7	2303.2	2425.8	3139.6	4129.2	3573.1	2973.2	3214.0
21416.4	75°	15470.1	10228.7	1909.1	1992.3	2119.3	2933.8	4019.7	3380.4	2837.4	2951.3
8486.0	77.5°	5898.2	3932.1	1576.3	1685.8	1703.3	2561.6	3844.5	3367.3	2701.7	2636.0
2544.0	80°	2044.9	1536.9	1304.9	1339.9	1318.0	2276.9	3686.9	2929.4	2211.3	1979.2
1050.9	82.5°	836.3	766.3	1033.4	989.6	937.1	1769.0	2977.5	2395.2	1808.4	1598.2
507.9	85°	363.4	486.0	683.1	599.9	543.0	1226.0	2386.4	2027.4	1528.2	1318.0
166.4	87.5°	74.4	183.9	289.0	271.5	280.2	818.8	1694.6	1440.6	1081.5	810.1
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°  
8385.3  
8363.4  
8525.4  
8801.3  
9112.2  
9401.2  
9598.2  
9712.0  
9777.7  
9782.1  
9716.4  
9602.6  
9379.3  
8967.7  
8297.7  
7413.2  
6397.3  
5394.6  
4562.6  
3993.4  
3625.6  
3345.4  
3135.2  
2911.9  
2653.5  
2732.3  
2881.2  
2968.8  
2868.1  
*3187.7*  
2951.3  
2403.9  
1913.5  
1580.7  
1313.6  
634.9  
0.0

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