

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: P944017

Luminaire Tested: **GALN-SB8D-735-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944017  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-735-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

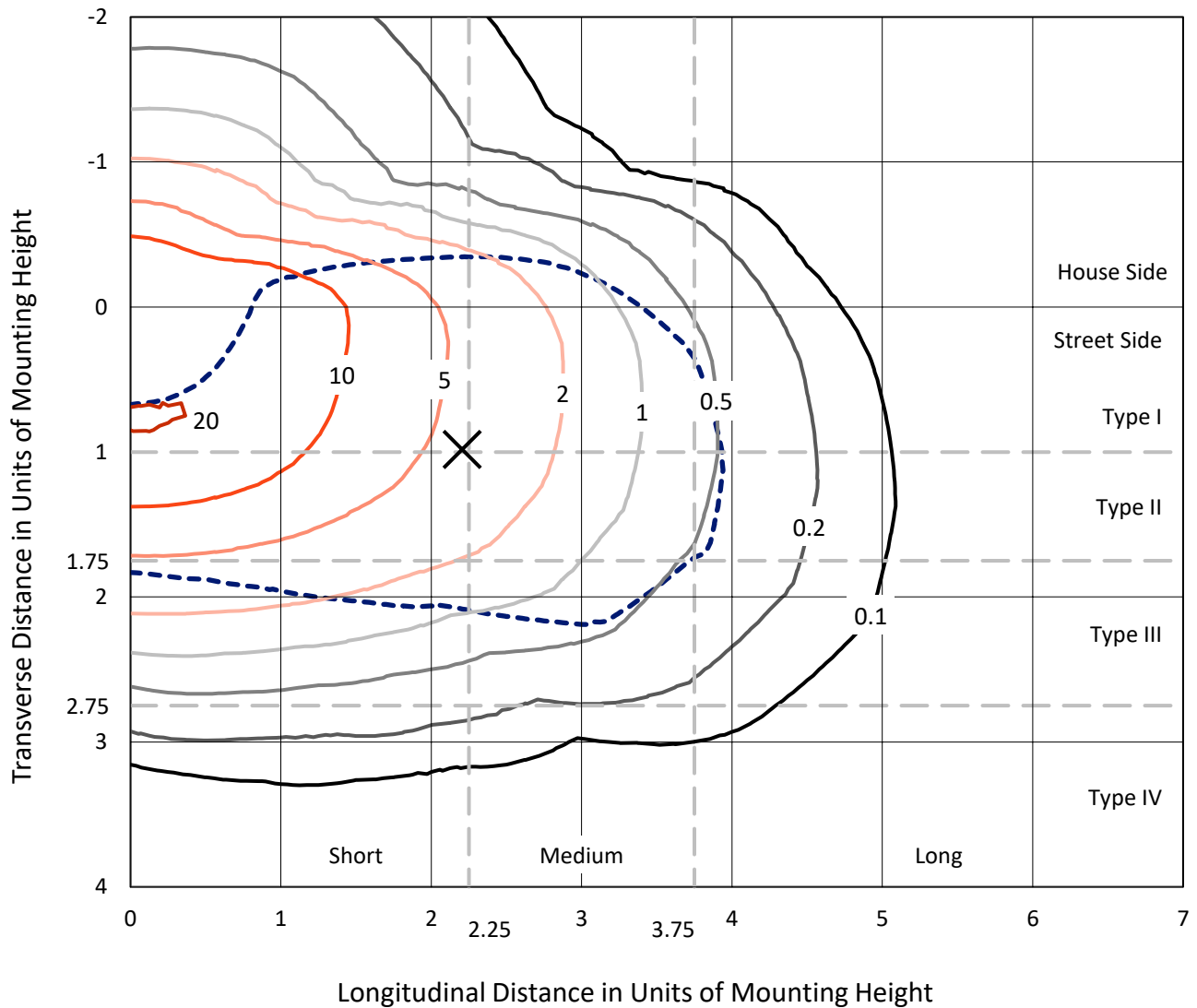
Lumens per Lamp: N/A  
Luminaire Lumens: 82341 lumens  
Efficiency: N/A  
Efficacy: 140.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

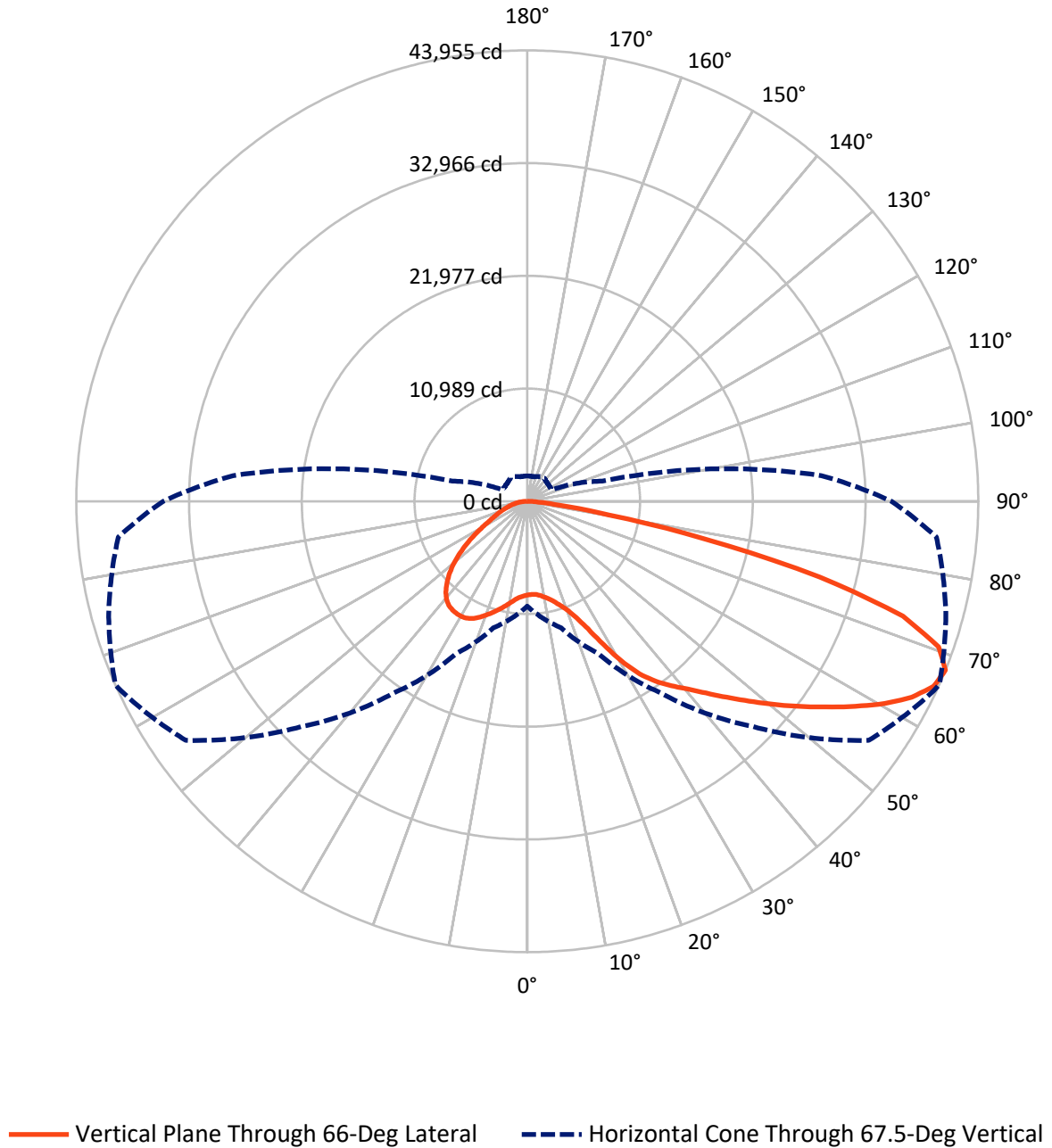
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.7 fc  
 Type III - 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	20473.9	0.0	20473.9
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	61867.1	0.0	61867.1
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	82341.0	0.0	82341.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	905.5	1.1
10°-20°	2991.6	3.6
20°-30°	5766.1	7.0
30°-40°	10110.0	12.3
40°-50°	15030.3	18.3
50°-60°	19052.4	23.1
60°-70°	18642.3	22.6
70°-80°	8892.5	10.8
80°-90°	950.4	1.2
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°	82341.0	100.0
0°-180°	82341.0	100.0

**Coefficient of Utilization**



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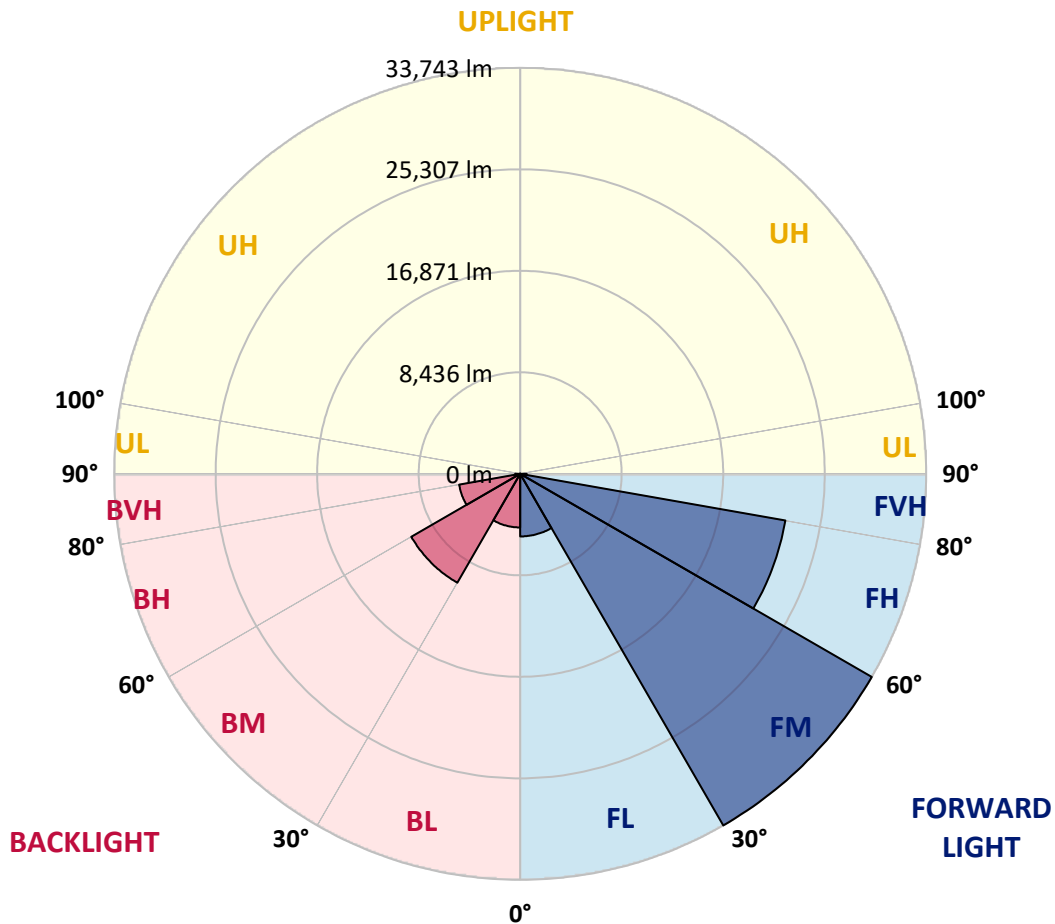
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5203.1	6.3			
FM (30°-60°)	33742.6	41.0			
FH (60°-80°)	22382.5	27.2			G5
FVH (80°-90°)	538.8	0.7			G4/750
BL (0°-30°)	4459.9	5.4	B4/5000		
BM (30°-60°)	10450.1	12.7	B5		
BH (60°-80°)	5152.3	6.3	B5		G5
BVH (80°-90°)	411.5	0.5			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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	9132.7	9132.7	9132.7	9132.7	9132.7	9132.7	9132.7	9132.7	9132.7	9132.7
2.5°	9037.5	9089.4	9076.5	9054.8	9050.5	9059.2	9072.1	9085.1	9080.8	9102.4
5°	9011.6	9063.5	9059.2	9059.2	9076.5	9111.1	9132.7	9154.3	9132.7	9158.7
7.5°	9028.9	9067.8	9085.1	9102.4	9145.7	9210.6	9262.5	9310.1	9284.1	9314.4
10°	9249.5	9279.8	9297.1	9297.1	9327.4	9400.9	9452.8	9539.4	9517.7	9565.3
12.5°	9651.9	9682.1	9682.1	9664.8	9686.5	9734.1	9751.4	9846.5	9807.6	9885.5
15°	10145.0	10205.6	10158.0	10127.7	10136.4	10184.0	10179.7	10253.2	10214.3	10279.2
17.5°	10690.2	10768.0	10690.2	10685.8	10668.5	10720.4	10724.8	10789.7	10720.4	10768.0
20°	11334.8	11442.9	11378.0	11399.7	11360.7	11382.4	11404.0	11499.2	11391.0	11425.6
22.5°	12243.3	12373.1	12303.8	12386.0	12360.1	12342.8	12338.5	12507.2	12338.5	12351.4
25°	13567.1	13722.9	13601.7	13714.2	13714.2	13770.4	13835.3	14051.6	13770.4	13688.2
27.5°	15522.6	15678.3	15440.4	15509.6	15488.0	15626.4	15557.2	16093.6	15790.8	15656.7
30°	17876.0	18152.9	17703.0	17685.7	17664.1	17884.7	17984.2	18339.0	18031.8	17897.7
32.5°	20419.9	20709.7	20173.3	20017.5	19935.3	20069.5	19987.3	20272.8	20060.8	19853.1
35°	23110.8	23396.3	22885.8	22583.0	22254.2	21973.0	21678.8	21752.4	21553.4	21237.5
37.5°	25654.6	26178.1	25637.3	25312.9	24707.2	24157.8	23335.8	22994.0	22808.0	22518.1
40°	28246.1	28544.6	28133.6	27856.7	27199.1	26338.2	25023.0	24300.5	24049.6	23768.4
42.5°	30153.9	30439.5	30218.8	30028.5	29513.6	28514.3	26814.1	25909.9	25546.5	25230.7
45°	31668.1	31880.1	31741.7	31810.9	31590.2	30621.2	28670.0	27636.1	27259.7	26874.6
47.5°	32278.1	32503.1	32723.7	33134.7	33511.1	32797.3	30664.4	29505.0	29107.0	28713.3
50°	32208.9	32438.2	33078.5	33952.4	35120.5	34882.5	32767.0	31495.1	31127.3	30677.4
52.5°	31655.1	31914.7	32736.7	34190.3	36050.6	36444.3	34908.5	33550.0	33203.9	32667.5
55°	30201.5	30357.3	31590.2	33649.5	36271.2	37534.5	37006.7	35739.1	35393.0	34644.6
57.5°	27506.3	27731.2	29526.6	32191.6	35717.5	38274.3	38849.7	38040.7	37707.6	36630.3
60°	23989.0	24348.1	26403.1	29742.9	34307.1	38270.0	40523.9	40303.3	40026.4	38585.8
62.5°	20008.9	20424.2	22401.3	26281.9	31841.2	37184.1	41570.9	42198.2	42055.4	40389.8
65°	15366.8	15652.4	17620.8	21804.3	28003.8	34852.2	41692.0	43491.7	43517.7	41761.3
67.5°	10231.6	11053.6	12762.4	16361.9	22864.2	31040.8	40627.8	43703.7	43954.7	42232.8
70°	4992.5	6074.0	7748.3	10633.9	16361.9	25196.1	37846.0	41964.6	42522.7	40857.1
72.5°	2072.3	2422.7	3335.5	5247.7	9392.3	17002.1	32256.5	37249.0	38282.9	36202.0
75°	1397.4	1514.2	1907.9	2690.9	4278.7	8384.3	23262.2	27774.5	29440.1	27341.9
77.5°	1077.2	1150.8	1388.7	1881.9	2543.8	3171.1	12450.9	16738.2	17599.2	16292.6
80°	847.9	904.2	1038.3	1371.4	1804.0	1695.9	4244.0	7583.9	8081.4	6779.2
82.5°	735.5	757.1	744.1	930.1	1198.4	990.7	1393.1	2799.1	3088.9	2241.0
85°	532.1	592.7	618.7	575.4	636.0	501.8	571.1	990.7	1090.2	973.4
87.5°	216.3	320.1	393.7	372.1	233.6	142.8	177.4	289.9	333.1	363.4
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°
9132.7	0°	9132.7	9132.7	9132.7	9132.7	9132.7	9132.7	9132.7	9132.7	9132.7	9132.7
9137.0	2.5°	9141.4	9171.6	9193.3	9219.2	9236.5	9262.5	9314.4	9344.7	9349.0	9370.6
9206.3	5°	9223.6	9266.8	9314.4	9383.6	9461.5	9526.4	9625.9	9695.1	9721.1	9742.7
9375.0	7.5°	9400.9	9461.5	9548.0	9669.2	9781.6	9868.2	9989.3	10071.5	10153.7	10184.0
9643.2	10°	9664.8	9751.4	9876.8	10041.2	10162.4	10274.8	10400.3	10469.5	10551.7	10586.3
9963.3	12.5°	9993.6	10084.5	10248.9	10478.2	10590.6	10668.5	10711.8	10694.5	10711.8	10742.1
10348.4	15°	10370.0	10469.5	10655.5	10902.1	10980.0	10910.8	10815.6	10729.1	10716.1	10724.8
10815.6	17.5°	10815.6	10889.2	11105.5	11313.1	11256.9	10971.4	10763.7	10625.3	10556.0	10534.4
11412.6	20°	11438.6	11438.6	11616.0	11745.8	11369.4	10884.8	10560.4	10335.4	10192.6	10132.1
12226.0	22.5°	12195.7	12126.5	12238.9	12148.1	11347.7	10642.6	10192.6	9803.3	9587.0	9500.4
13363.8	25°	13156.1	13073.9	13043.6	12481.2	11192.0	10257.5	9526.4	9054.8	8864.5	8816.9
15003.4	27.5°	14605.4	14397.7	14004.1	12662.9	10906.5	9651.9	8747.7	8310.7	8202.6	8206.9
17110.3	30°	16534.9	16119.6	15154.8	12693.2	10439.2	8795.3	7951.6	7640.2	7588.2	7609.9
18879.7	32.5°	18321.7	17928.0	16331.6	12554.8	9721.1	7956.0	7237.8	7030.1	6952.3	6978.2
20229.5	35°	19723.4	19615.2	17421.8	12360.1	8838.5	7168.6	6597.5	6420.1	6268.7	6234.1
21501.4	37.5°	21047.2	21003.9	18239.5	12087.5	7964.6	6610.5	6082.7	5849.1	5628.4	5507.3
22907.5	40°	22500.8	22457.5	18775.9	11667.9	7190.2	6126.0	5619.8	5312.6	5040.1	4819.4
24499.5	42.5°	24136.1	23880.9	19031.2	11066.5	6532.6	5715.0	5243.4	4828.1	4469.0	4265.7
26299.2	45°	25922.9	25347.5	19026.8	10300.8	5978.9	5338.6	4841.1	4252.7	3919.6	3729.2
28146.6	47.5°	27817.8	26749.2	18793.2	9452.8	5442.4	4923.3	4218.1	3768.2	3547.5	3430.7
30153.9	50°	29773.2	28060.0	18395.2	8479.4	4893.0	4451.7	3828.7	3521.6	3352.8	3244.7
32144.0	52.5°	31611.9	29249.7	17915.0	7376.2	4334.9	3993.1	3655.7	3417.7	3240.4	3119.2
34073.5	55°	33320.7	30275.1	17235.8	6247.1	3880.6	3686.0	3573.5	3374.5	3171.1	3028.4
36033.3	57.5°	34839.3	30941.3	16063.4	5187.2	3556.2	3474.0	3487.0	3300.9	3067.3	2946.2
37962.8	60°	36102.5	31430.2	14328.5	4205.1	3292.3	3266.3	3352.8	3162.5	2889.9	2751.5
39593.8	62.5°	36859.6	31421.5	12200.0	3443.7	3067.3	3076.0	3175.5	2989.4	2712.6	2582.8
40446.1	65°	36794.7	30651.5	9863.8	2946.2	2851.0	2859.6	2989.4	2799.1	2565.5	2487.6
40017.8	67.5°	35492.5	28773.9	7566.6	2621.7	2613.1	2652.0	2803.4	2669.3	2474.6	2466.0
37465.3	70°	31966.6	24875.9	5451.1	2362.1	2366.5	2422.7	2621.7	2587.1	2427.0	2444.3
31499.4	72.5°	25633.0	18966.3	3660.0	2089.6	2093.9	2184.8	2448.7	2522.2	2379.4	2608.7
22349.4	75°	17071.4	11828.0	2353.5	1799.7	1804.0	1920.9	2297.2	2396.7	2249.6	2600.1
11628.9	77.5°	8202.6	5317.0	1704.5	1514.2	1514.2	1622.3	1985.7	2145.8	1916.5	2020.4
3737.9	80°	2833.7	1998.7	1341.1	1220.0	1194.0	1267.6	1674.3	1860.3	1652.6	1522.8
1220.0	82.5°	1116.2	1038.3	1077.2	947.4	860.9	908.5	1302.2	1535.8	1215.7	1098.9
687.9	85°	640.3	674.9	761.4	627.3	497.5	558.1	956.1	1103.2	917.2	809.0
225.0	87.5°	173.0	237.9	350.4	324.5	225.0	237.9	454.3	610.0	527.8	406.7
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>
9132.7
9366.3
9738.4
10188.3
10603.6
10750.7
10755.0
10564.7
10119.1
9487.5
8825.5
8219.9
7683.4
7012.8
6260.1
5511.6
4841.1
4278.7
3720.6
3404.8
3205.7
3067.3
2972.1
2868.3
2690.9
2543.8
2483.3
2478.9
2440.0
2643.3
2621.7
1851.6
1427.7
1094.5
826.3
419.6
0.0

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