

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: P954378

Luminaire Tested: **GALN-SB7C-927-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-927-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33021 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

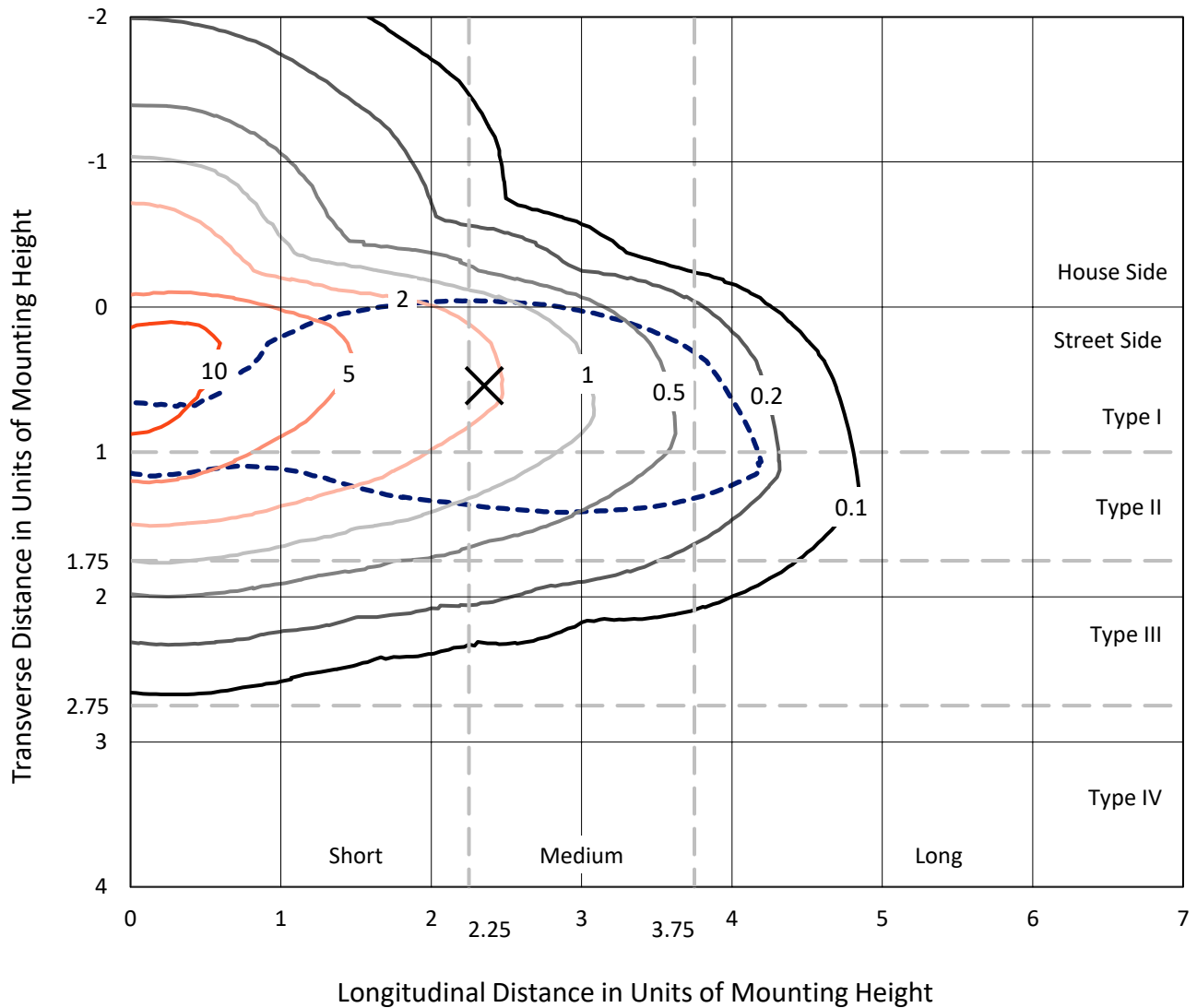
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

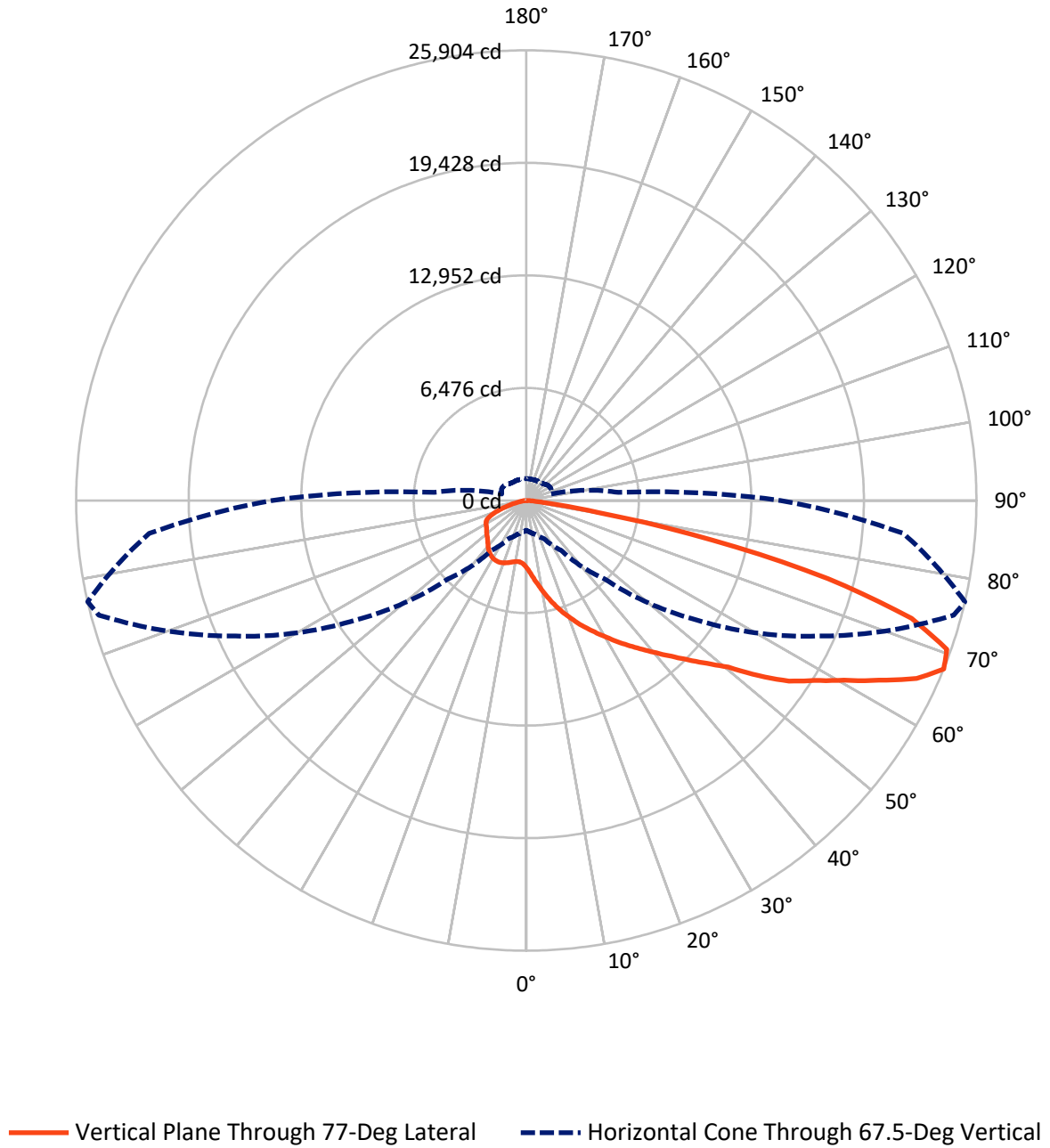
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6246.2	0.0	6246.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	26774.8	0.0	26774.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	33021.0	0.0	33021.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.3	1.3
10°-20°	1491.9	4.5
20°-30°	2816.9	8.5
30°-40°	4538.0	13.7
40°-50°	6207.2	18.8
50°-60°	7001.8	21.2
60°-70°	6535.3	19.8
70°-80°	3582.4	10.8
80°-90°	432.1	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°	33021.0	100.0
0°-180°	33021.0	100.0

Coefficient of Utilization



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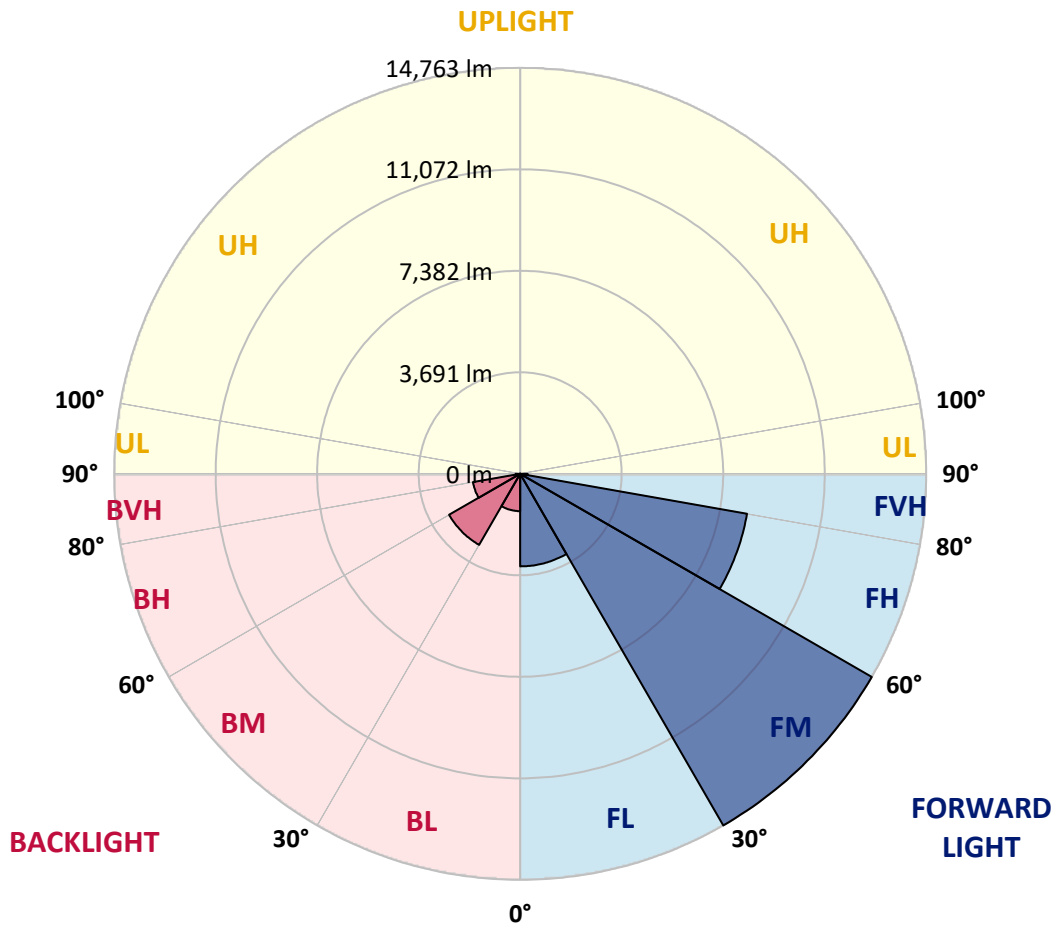
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3366.1	10.2			
FM (30°-60°)	14763.3	44.7			
FH (60°-80°)	8375.1	25.4			G4/12000
FVH (80°-90°)	270.2	0.8			G3/500
BL (0°-30°)	1358.1	4.1	B3/2500		
BM (30°-60°)	2983.7	9.0	B3/5000		
BH (60°-80°)	1742.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	161.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3874.4	3874.4	3874.4	3874.4	3874.4	3874.4	3874.4	3874.4	3874.4	3874.4
2.5°	4851.1	4885.2	4842.6	4842.6	4699.4	4624.4	4481.2	4372.1	4176.1	4142.0
5°	5734.0	5776.6	5717.0	5691.4	5522.7	5367.6	5127.2	4890.3	4540.9	4505.1
7.5°	6417.5	6472.1	6419.2	6392.0	6242.0	6068.1	5786.9	5456.2	4963.6	4893.7
10°	6974.9	6983.4	6966.4	6976.6	6859.0	6715.8	6427.8	6042.5	5427.2	5331.8
12.5°	7290.3	7329.5	7363.6	7424.9	7404.5	7315.8	7056.7	6596.5	5918.1	5795.4
15°	7438.6	7506.7	7583.4	7724.9	7839.1	7861.3	7663.6	7191.4	6417.5	6269.2
17.5°	7491.4	7556.2	7677.2	7881.7	8127.2	8292.5	8203.9	7769.2	6911.9	6741.4
20°	7759.0	7777.8	7851.0	8045.4	8311.3	8585.7	8652.2	8324.9	7401.1	7208.4
22.5°	8331.7	8294.2	8314.7	8403.3	8594.2	8860.1	9011.8	8815.8	7903.9	7682.3
25°	9277.7	9168.6	9059.6	8957.3	9054.4	9204.4	9376.6	9306.7	8430.6	8149.3
27.5°	10472.6	10339.7	10099.3	9763.5	9645.9	9698.8	9775.5	9761.8	8918.1	8633.4
30°	11648.7	11493.6	11207.3	10721.5	10411.2	10271.5	10213.5	10174.3	9448.2	9144.8
32.5°	12587.9	12465.2	12184.0	11640.2	11190.2	10951.6	10759.0	10619.2	10002.2	9698.8
35°	13409.5	13295.3	12973.2	12380.0	11890.8	11636.8	11384.5	11086.2	10578.3	10271.5
37.5°	14159.5	14045.3	13603.8	12986.8	12494.2	12318.6	12093.6	11587.4	11156.1	10866.4
40°	14633.4	14607.8	14195.3	13496.4	12985.1	12898.2	12823.2	12168.6	11797.0	11527.7
42.5°	14754.4	14810.6	14483.4	13908.9	13421.4	13351.6	13527.1	12826.6	12516.3	12259.0
45°	14462.9	14624.8	14410.1	14019.7	13731.7	13694.2	14151.0	13545.9	13312.4	13077.1
47.5°	13724.8	13999.3	13910.6	13856.1	13815.2	13977.1	14699.8	14309.5	14214.0	14009.5
50°	12235.1	12755.0	12910.1	13254.4	13649.8	14197.0	15199.3	15143.0	15267.4	15061.2
52.5°	9659.6	10375.5	11275.4	12137.9	13141.9	14123.7	15748.1	16339.6	16864.6	16752.1
55°	7973.8	8295.9	8988.0	10569.8	12156.7	13815.2	15995.3	17306.1	18449.8	18349.2
57.5°	6678.3	6966.4	7392.5	8713.5	10666.9	13114.6	16148.7	17895.8	19535.6	19525.4
60°	5289.1	5594.3	6030.6	6966.4	8926.6	11904.4	16114.6	18567.4	20921.4	21006.6
62.5°	3721.0	4056.8	4540.9	5413.6	7148.8	10336.2	15419.1	19053.2	22552.6	22784.4
65°	2446.0	2667.6	3032.4	3785.8	5326.6	8319.8	14091.3	19116.3	24298.0	24690.1
67.5°	1714.8	1800.0	2014.8	2423.8	3511.3	6380.0	11976.0	18463.4	25462.2	25903.7
70°	1338.1	1380.7	1489.8	1653.4	2205.7	4290.3	9177.2	16765.7	25213.4	25673.6
72.5°	1155.7	1196.6	1237.5	1257.9	1479.5	2648.8	6216.4	14018.0	22869.6	23181.6
75°	1048.3	1058.5	1092.6	1085.8	1128.4	1718.2	3588.0	10213.5	18044.1	17936.7
77.5°	881.2	894.9	951.1	942.6	1002.3	1174.4	1863.0	6591.4	11698.2	10968.6
80°	746.6	753.4	814.8	804.5	871.0	850.6	951.1	3359.6	4961.9	4203.4
82.5°	259.1	320.5	622.2	640.9	664.8	514.8	548.9	1370.4	1515.3	1160.8
85°	126.1	134.7	317.0	450.0	448.3	259.1	267.6	489.2	477.3	375.0
87.5°	20.5	25.6	37.5	175.6	139.8	68.2	92.0	95.5	98.9	85.2
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°
3874.4	0°	3874.4	3874.4	3874.4	3874.4	3874.4	3874.4	3874.4	3874.4	3874.4	3874.4
4012.5	2.5°	3917.0	3831.8	3652.8	3487.5	3357.9	3233.5	3163.6	3103.9	3069.9	3063.0
4200.0	5°	4022.7	3847.1	3521.6	3247.1	3068.1	2935.2	2865.3	2821.0	2798.8	2785.2
4452.2	7.5°	4174.4	3917.0	3453.4	3141.4	2953.9	2858.5	2822.7	2815.9	2814.2	2815.9
4757.3	10°	4384.0	4031.2	3446.6	3115.9	2959.1	2906.2	2904.5	2906.2	2913.0	2914.7
5089.7	12.5°	4610.7	4148.8	3473.8	3138.0	3023.8	2994.9	2989.7	2988.0	2993.1	2996.6
5425.5	15°	4857.9	4303.9	3519.8	3185.8	3095.4	3064.7	3059.6	3049.4	3047.7	3046.0
5778.3	17.5°	5111.9	4457.3	3571.0	3236.9	3141.4	3098.8	3080.1	3056.2	3037.5	3032.4
6143.1	20°	5369.3	4609.0	3606.8	3262.5	3144.9	3085.2	3047.7	3006.8	2974.4	2955.6
6511.3	22.5°	5643.7	4767.6	3628.9	3255.6	3114.2	3032.4	2964.2	2916.4	2867.0	2834.6
6882.9	25°	5911.3	4905.6	3627.2	3219.9	3054.5	2950.5	2863.6	2802.2	2734.1	2700.0
7266.4	27.5°	6168.7	5030.1	3584.6	3156.8	2969.3	2853.4	2749.4	2676.1	2609.6	2577.2
7653.3	30°	6434.6	5134.0	3518.1	3064.7	2868.7	2740.9	2626.7	2563.6	2503.9	2473.3
8062.4	32.5°	6698.8	5229.5	3424.4	2950.5	2752.8	2630.1	2517.6	2459.6	2423.8	2423.8
8502.2	35°	6978.3	5296.0	3300.0	2817.6	2630.1	2512.5	2423.8	2389.7	2386.3	2365.9
8967.5	37.5°	7273.2	5338.6	3148.3	2681.2	2509.1	2398.3	2371.0	2330.1	2296.0	2251.7
9478.9	40°	7583.4	5381.2	2965.9	2539.7	2381.2	2319.9	2307.9	2253.4	2156.2	2047.1
10058.4	42.5°	7960.1	5410.2	2776.7	2398.3	2246.6	2226.1	2243.2	2149.4	1994.3	1912.5
10757.3	45°	8396.5	5457.9	2602.8	2258.5	2108.5	2108.5	2180.1	2057.4	1929.5	1878.4
11555.0	47.5°	8962.4	5568.7	2440.9	2105.1	1980.7	2014.8	2040.3	1946.6	1875.0	1811.9
12526.6	50°	9780.6	5834.6	2273.8	1950.0	1883.5	1951.7	1915.9	1861.3	1777.8	1726.7
14070.9	52.5°	10796.5	5991.4	2125.5	1810.2	1800.0	1868.2	1817.0	1765.9	1702.8	1634.6
15241.9	55°	11488.5	6020.4	2001.1	1707.9	1743.7	1736.9	1718.2	1672.1	1638.1	1547.7
16397.5	57.5°	12262.4	6078.3	1898.8	1646.6	1707.9	1632.9	1626.1	1586.9	1542.6	1481.2
17807.2	60°	13187.9	6168.7	1810.2	1622.7	1677.3	1564.8	1530.7	1515.3	1471.0	1440.3
19503.2	62.5°	14197.0	6250.5	1719.9	1626.1	1641.5	1498.3	1447.1	1442.0	1414.8	1404.5
21095.2	65°	14885.6	6027.2	1607.4	1622.7	1585.2	1430.1	1365.3	1363.6	1341.5	1338.1
21785.6	67.5°	14645.3	5319.8	1455.7	1575.0	1527.3	1361.9	1290.3	1283.5	1254.5	1256.2
21064.5	70°	13441.9	4310.7	1246.0	1457.4	1455.7	1300.6	1211.9	1189.8	1150.6	1157.4
18315.1	72.5°	11185.1	3194.3	964.8	1261.3	1341.5	1244.3	1121.6	1085.8	1036.4	1043.2
13520.3	75°	8077.8	2171.6	702.3	959.6	1167.6	1177.8	1032.9	971.6	911.9	922.1
7525.5	77.5°	4133.5	1230.7	516.5	661.4	917.0	1070.4	952.8	871.0	857.4	952.8
2169.9	80°	1348.3	617.0	358.0	463.6	601.7	876.1	835.2	741.5	738.1	760.2
455.1	82.5°	402.3	260.8	230.1	305.1	332.4	671.6	721.0	560.8	482.4	507.9
151.7	85°	138.1	126.1	131.2	151.7	158.5	393.7	504.5	371.6	351.1	386.9
34.1	87.5°	32.4	44.3	37.5	34.1	34.1	95.5	196.0	155.1	214.8	143.2
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>
3874.4
3063.0
2783.5
2821.0
2916.4
2998.3
3044.3
3037.5
2962.5
2836.3
2700.0
2575.5
2471.6
2425.5
2360.8
2244.9
2031.8
1914.2
1886.9
1810.2
1721.6
1621.0
1549.4
1460.8
1448.8
1404.5
1336.3
1256.2
1164.2
1041.5
925.6
939.2
652.8
525.0
381.8
138.1
0.0

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