

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: P956169

Luminaire Tested: **GALN-SB8D-927-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956169  
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-SB8D-927-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

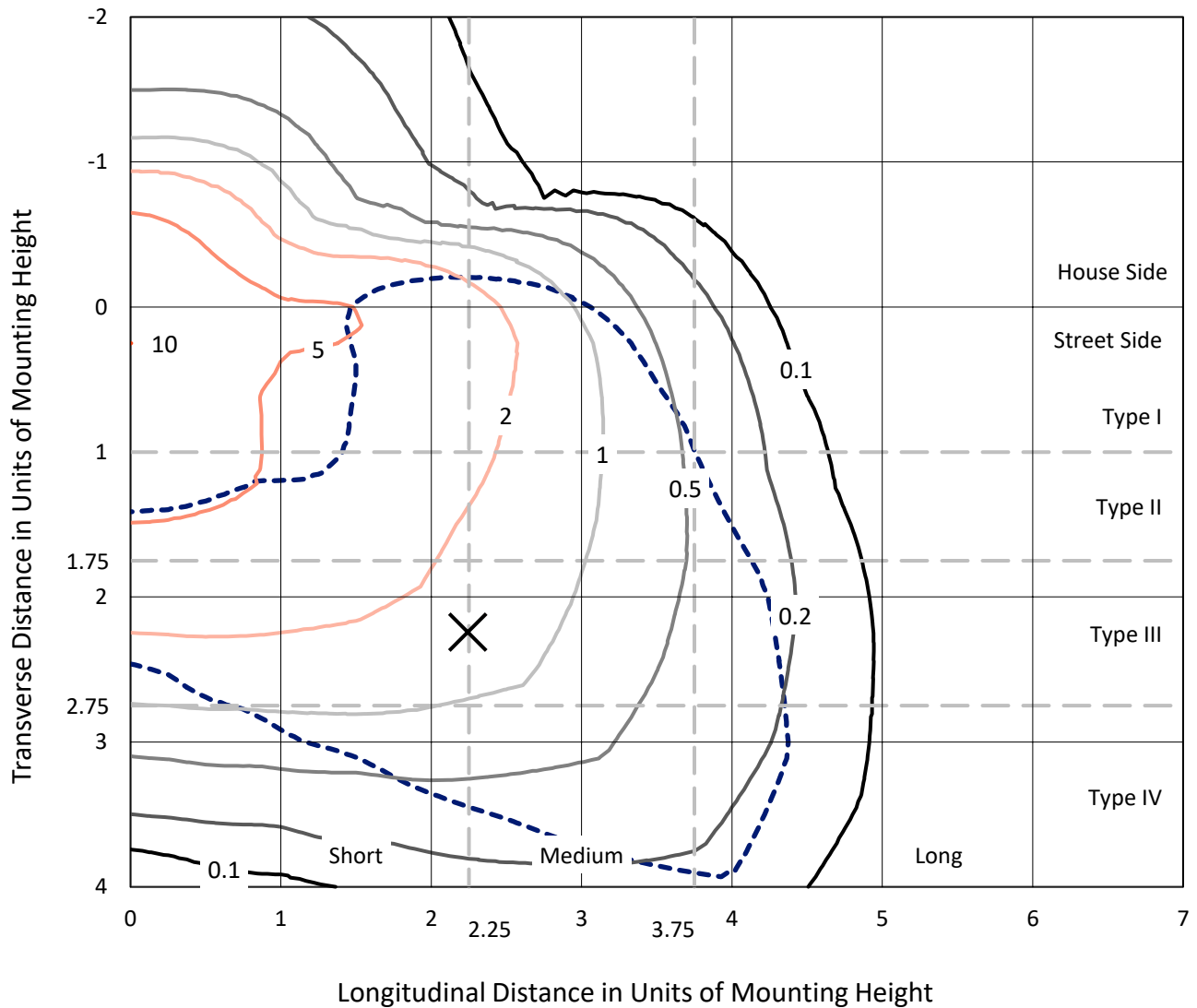
Lumens per Lamp: N/A  
Luminaire Lumens: 49989 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

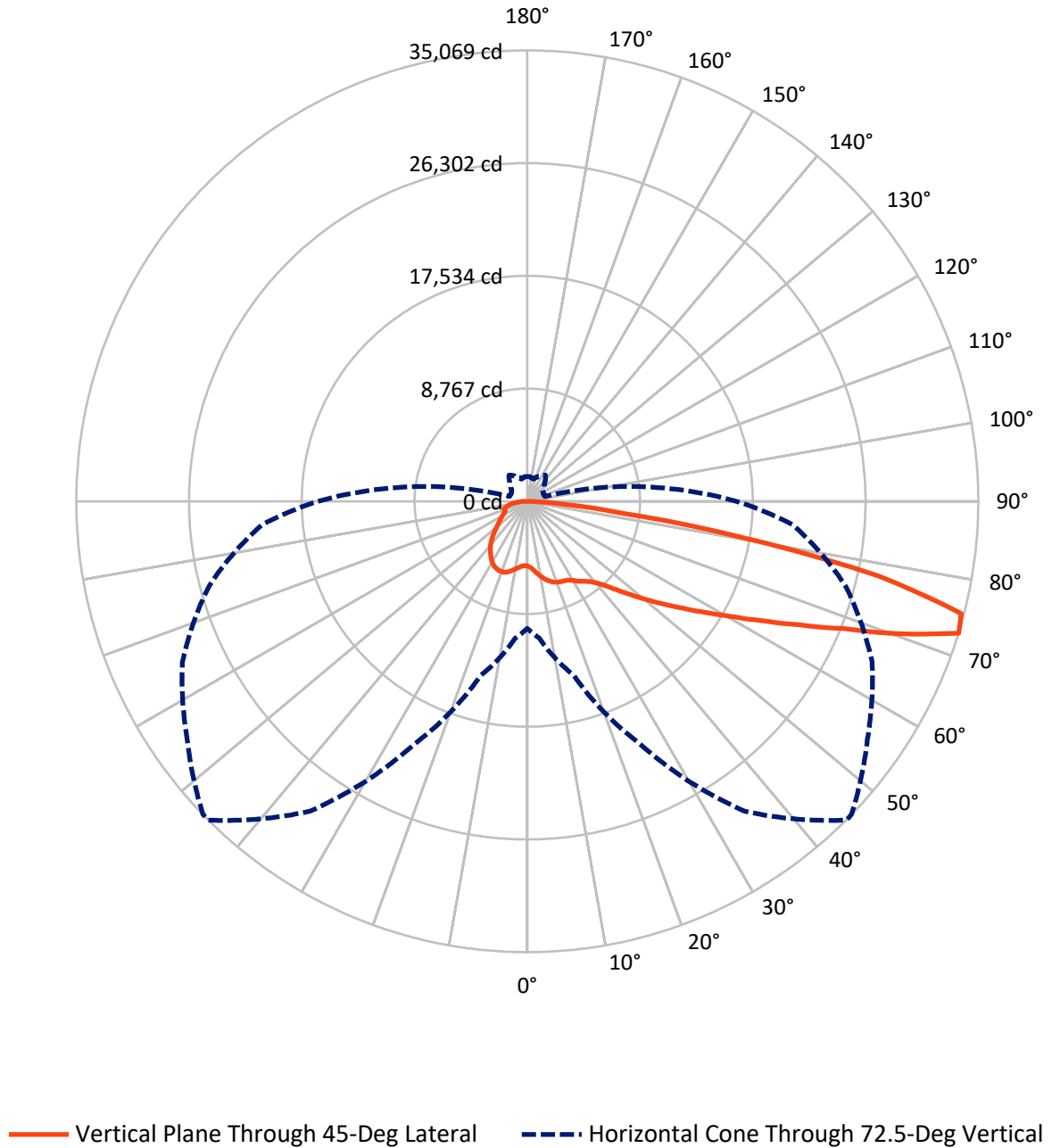
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	11300.8	0.0	11300.8
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	38688.2	0.0	38688.2
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	49989.0	0.0	49989.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	513.3	1.0
10°-20°	1711.3	3.4
20°-30°	2976.9	6.0
30°-40°	4267.6	8.5
40°-50°	6009.0	12.0
50°-60°	9204.0	18.4
60°-70°	13333.4	26.7
70°-80°	10647.5	21.3
80°-90°	1326.1	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°	49989.0	100.0
0°-180°	49989.0	100.0



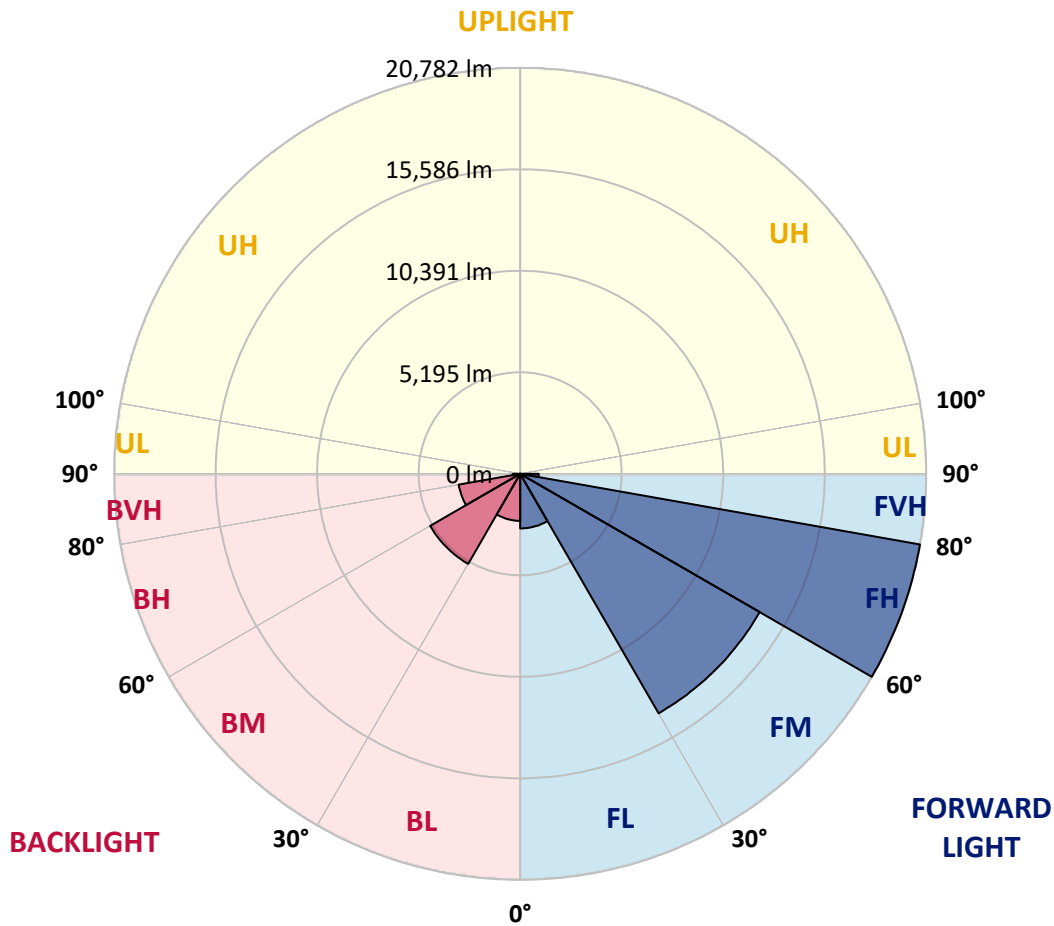
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2795.5	5.6			
FM (30°-60°)	14159.5	28.3			
FH (60°-80°)	20781.9	41.6			G5
FVH (80°-90°)	951.4	1.9			G5
BL (0°-30°)	2406.0	4.8	B3/2500		
BM (30°-60°)	5321.1	10.6	B4/8500		
BH (60°-80°)	3199.0	6.4	B4/5000		G4/5000
BVH (80°-90°)	374.7	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	5042.9	5042.9	5042.9	5042.9	5042.9	5042.9	5042.9	5042.9	5042.9	5042.9
2.5°	5240.4	5274.7	5243.1	5214.1	5200.9	5166.7	5164.1	5143.0	5129.8	5093.0
5°	5606.5	5651.2	5598.6	5540.6	5488.0	5403.7	5393.2	5332.6	5264.1	5185.1
7.5°	6019.9	6059.4	5998.8	5911.9	5819.8	5680.2	5677.6	5567.0	5459.0	5324.7
10°	6380.7	6433.3	6351.7	6233.2	6117.3	5959.3	5940.9	5814.5	5677.6	5503.8
12.5°	6699.3	6736.2	6657.2	6512.3	6378.0	6220.0	6196.3	6056.8	5904.0	5706.5
15°	6952.1	6999.5	6894.2	6738.8	6596.6	6441.2	6420.2	6293.8	6141.0	5933.0
17.5°	7118.0	7157.5	7049.6	6875.7	6738.8	6609.8	6594.0	6488.6	6354.3	6143.7
20°	7181.2	7223.4	7110.1	6933.7	6807.3	6707.2	6699.3	6622.9	6530.8	6338.5
22.5°	7244.4	7283.9	7136.5	6952.1	6841.5	6778.3	6775.7	6725.6	6688.8	6530.8
25°	7499.9	7510.4	7312.9	7046.9	6888.9	6833.6	6831.0	6828.3	6844.1	6720.4
27.5°	7721.1	7718.4	7549.9	7299.7	7054.8	6938.9	6936.3	6962.6	7012.7	6910.0
30°	8045.0	8016.0	7815.9	7555.2	7331.3	7152.3	7136.5	7112.8	7152.3	7070.6
32.5°	8732.3	8640.1	8316.2	7852.7	7560.4	7423.5	7402.4	7255.0	7270.8	7220.7
35°	9717.2	9596.0	9164.2	8416.3	7844.8	7650.0	7639.4	7452.5	7420.9	7376.1
37.5°	10889.0	10738.9	10235.9	9232.6	8334.6	7913.3	7897.5	7729.0	7599.9	7552.5
40°	12066.1	11876.5	11460.5	10228.0	9056.2	8353.1	8303.0	8047.6	7900.1	7821.1
42.5°	13209.0	13051.0	12695.5	11344.6	9946.3	8995.6	8885.0	8447.9	8337.3	8263.5
45°	14220.2	14078.0	13817.3	12537.5	10989.1	9869.9	9761.9	9048.3	9014.0	9014.0
47.5°	15041.8	15010.2	14733.7	13754.1	12218.9	10865.3	10678.3	9883.1	9975.2	10117.4
50°	15953.0	15866.1	15571.2	14952.3	13664.6	12005.6	11852.8	10907.4	11252.4	11642.2
52.5°	16790.4	16837.8	16508.6	16200.5	15297.3	13277.5	13008.9	12116.2	12861.4	13506.6
55°	17651.5	17654.2	17562.0	17519.9	17009.0	14683.7	14388.8	13569.8	14754.8	15555.4
57.5°	18460.0	18465.2	18602.2	18973.5	18994.5	16305.9	15971.4	15355.2	16858.9	17675.2
60°	19181.5	19218.4	19592.3	20461.3	20740.5	18165.0	17849.0	17464.6	19034.0	19855.7
62.5°	19423.8	19558.1	20390.2	21625.3	22465.3	20445.5	20134.8	19905.7	21319.8	22083.5
65°	19013.0	19321.1	20930.1	22586.5	24240.2	23155.3	22847.2	22597.0	23695.1	24414.0
67.5°	18004.4	18402.0	20898.5	23595.1	26394.3	26415.4	26128.4	25541.1	26241.6	26518.1
70°	15347.3	15942.5	19057.8	23971.6	28867.1	30873.7	30597.2	29085.7	28782.8	27445.1
72.5°	9888.3	10688.9	14033.3	20872.1	29417.5	35068.7	35052.9	32285.2	29586.0	25643.8
75°	3607.7	4097.5	6520.2	13101.1	24693.2	34855.4	34958.1	31737.5	27007.9	19808.3
77.5°	1314.1	1437.8	2127.8	5035.0	15186.7	27966.5	28179.8	25372.6	19223.7	9941.0
80°	689.9	758.4	1090.2	1954.0	6507.1	16608.7	16943.1	15078.7	9035.1	2994.1
82.5°	381.8	413.4	610.9	1061.3	2930.9	7102.2	7302.4	5956.7	3178.5	1269.3
85°	205.4	218.6	287.0	579.3	1432.6	2462.2	2517.5	1780.2	1266.7	745.2
87.5°	60.6	73.7	94.8	184.3	560.9	553.0	566.2	352.9	500.3	376.6
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°
5042.9	0°	5042.9	5042.9	5042.9	5042.9	5042.9	5042.9	5042.9	5042.9	5042.9	5042.9
5082.4	2.5°	5066.6	5058.7	5029.8	5016.6	5000.8	4998.1	5011.3	5013.9	5016.6	5019.2
5140.4	5°	5114.0	5087.7	5061.4	5045.6	5050.8	5053.5	5079.8	5098.2	5111.4	5121.9
5248.3	7.5°	5206.2	5185.1	5140.4	5137.7	5145.6	5169.3	5203.6	5245.7	5269.4	5287.8
5387.9	10°	5343.1	5303.6	5251.0	5258.9	5274.7	5308.9	5380.0	5414.2	5453.7	5488.0
5559.1	12.5°	5482.7	5448.5	5387.9	5393.2	5419.5	5480.1	5548.5	5590.7	5617.0	5643.3
5743.4	15°	5664.4	5603.8	5538.0	5538.0	5585.4	5651.2	5682.8	5717.1	5732.9	5761.8
5940.9	17.5°	5851.4	5772.4	5685.5	5680.2	5738.1	5769.7	5788.2	5793.4	5798.7	5830.3
6133.1	20°	6038.3	5951.4	5827.7	5817.1	5830.3	5825.0	5822.4	5817.1	5825.0	5864.5
6330.6	22.5°	6222.7	6122.6	5951.4	5904.0	5867.2	5817.1	5814.5	5811.9	5817.1	5856.6
6543.9	25°	6438.6	6317.5	6088.4	5946.2	5822.4	5753.9	5761.8	5764.5	5769.7	5801.3
6765.1	27.5°	6673.0	6538.7	6214.8	5933.0	5709.2	5661.8	5648.6	5656.5	5674.9	5725.0
6986.3	30°	6907.3	6749.3	6330.6	5880.3	5567.0	5501.1	5459.0	5477.4	5535.4	5585.4
7178.6	32.5°	7120.7	6962.6	6422.8	5764.5	5385.3	5282.6	5227.3	5251.0	5308.9	5327.3
7391.9	35°	7370.8	7191.8	6462.3	5580.1	5187.8	5029.8	4956.0	4921.8	4950.7	4932.3
7642.1	37.5°	7650.0	7463.0	6457.0	5337.9	4956.0	4774.3	4671.6	4542.6	4482.0	4418.8
8010.7	40°	8063.4	7794.8	6393.8	5045.6	4669.0	4503.1	4318.7	4100.2	3963.2	3839.5
8605.9	42.5°	8626.9	8255.6	6278.0	4724.3	4345.1	4189.7	3939.5	3684.1	3468.2	3262.8
9509.1	45°	9467.0	8858.7	6133.1	4381.9	3994.8	3842.1	3570.9	3283.8	3038.9	2775.6
10791.6	47.5°	10678.3	9669.8	5996.2	3992.2	3626.2	3486.6	3241.7	2975.7	2686.0	2430.6
12645.5	50°	12342.6	10833.7	5869.8	3613.0	3262.8	3157.4	2962.5	2691.3	2399.0	2193.6
14818.0	52.5°	14459.9	12416.4	5817.1	3247.0	2923.0	2883.5	2728.2	2475.4	2198.9	2025.1
17351.3	55°	16890.5	14309.8	5817.1	2896.7	2625.5	2638.6	2530.7	2296.3	2056.7	1901.3
19963.6	57.5°	19371.1	16226.9	5711.8	2572.8	2372.7	2428.0	2359.5	2154.1	1938.2	1777.5
22710.2	60°	21656.9	17833.2	5285.2	2277.9	2148.8	2235.7	2191.0	2014.5	1751.2	1616.9
25006.5	62.5°	23413.4	18739.1	4463.6	2043.5	1964.5	2064.6	2040.9	1830.2	1717.0	1661.7
26892.0	65°	24292.9	18591.6	3412.9	1835.5	1809.1	1964.5	1914.5	1906.6	1817.0	1753.8
27505.6	67.5°	23753.1	17322.4	2475.4	1682.7	1719.6	1872.3	2064.6	2096.2	1930.3	1806.5
25778.1	70°	21385.7	15026.0	1843.4	1537.9	1606.4	1875.0	2354.2	2193.6	1893.4	1748.6
20674.6	72.5°	16269.0	11205.0	1429.9	1385.2	1458.9	1888.1	2483.3	2148.8	1788.1	1932.9
12879.8	75°	9303.7	6151.6	1148.2	1198.2	1274.6	1764.4	2417.4	2033.0	1706.4	1774.9
5103.5	77.5°	3547.2	2364.8	948.0	1013.9	1024.4	1540.5	2312.1	2025.1	1624.8	1585.3
1530.0	80°	1229.8	924.3	784.7	805.8	792.6	1369.4	2217.3	1761.7	1329.9	1190.3
632.0	82.5°	503.0	460.8	621.5	595.1	563.5	1063.9	1790.7	1440.5	1087.6	961.2
305.5	85°	218.6	292.3	410.8	360.8	326.5	737.3	1435.2	1219.3	919.0	792.6
100.1	87.5°	44.8	110.6	173.8	163.3	168.5	492.4	1019.1	866.4	650.4	487.2
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>
5042.9
5029.8
5127.2
5293.1
5480.1
5653.9
5772.4
5840.8
5880.3
5883.0
5843.5
5775.0
5640.7
5393.2
4990.2
4458.3
3847.4
3244.3
2744.0
2401.6
2180.4
2011.9
1885.5
1751.2
1595.8
1643.2
1732.8
1785.4
1724.9
1917.1
1774.9
1445.7
1150.8
950.6
790.0
381.8
0.0

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