

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: P953874

Luminaire Tested: **GALN-SB7B-750-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953874
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-SB7B-750-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43154 lumens
Efficiency: N/A
Efficacy: 168.1 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

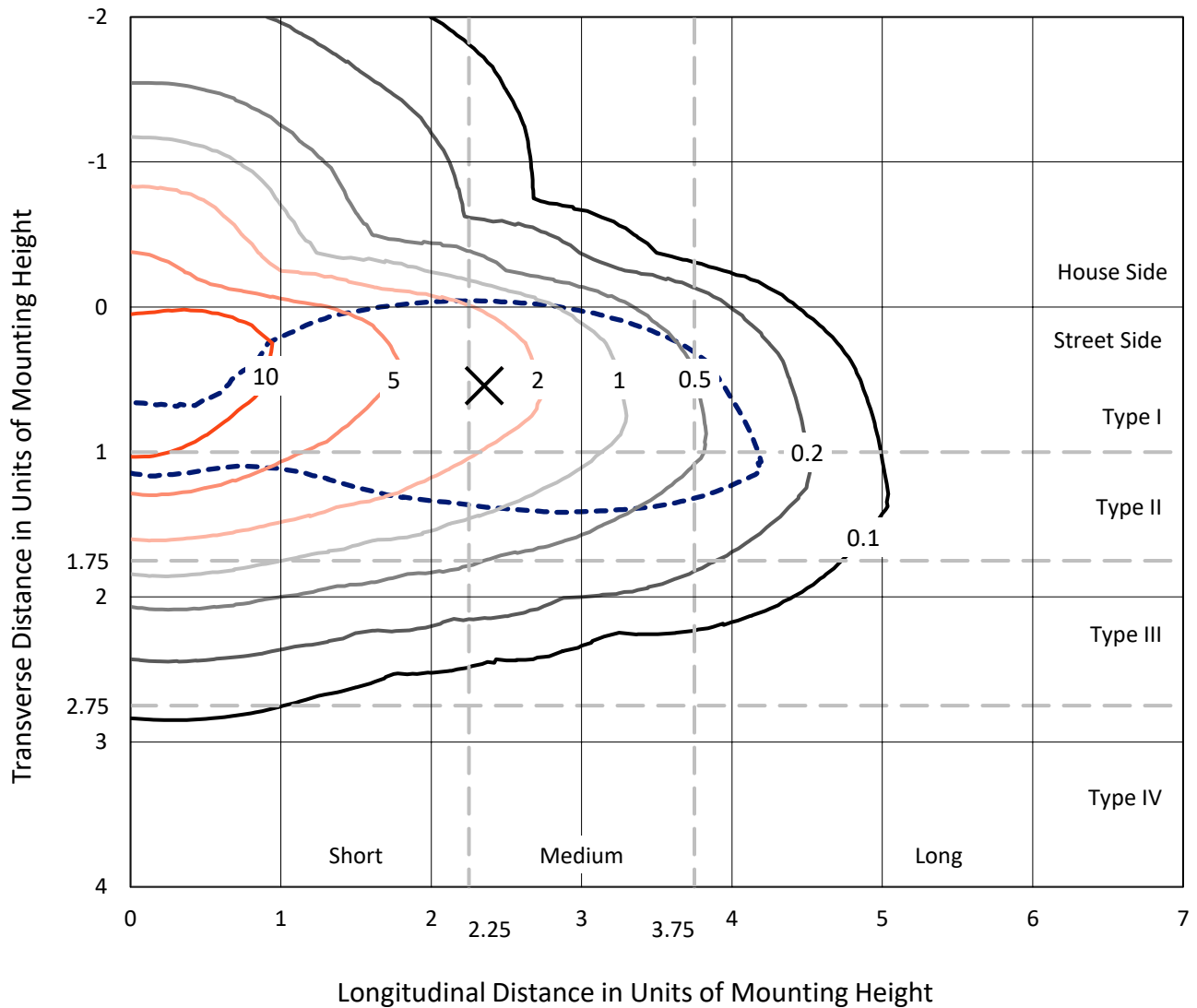
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

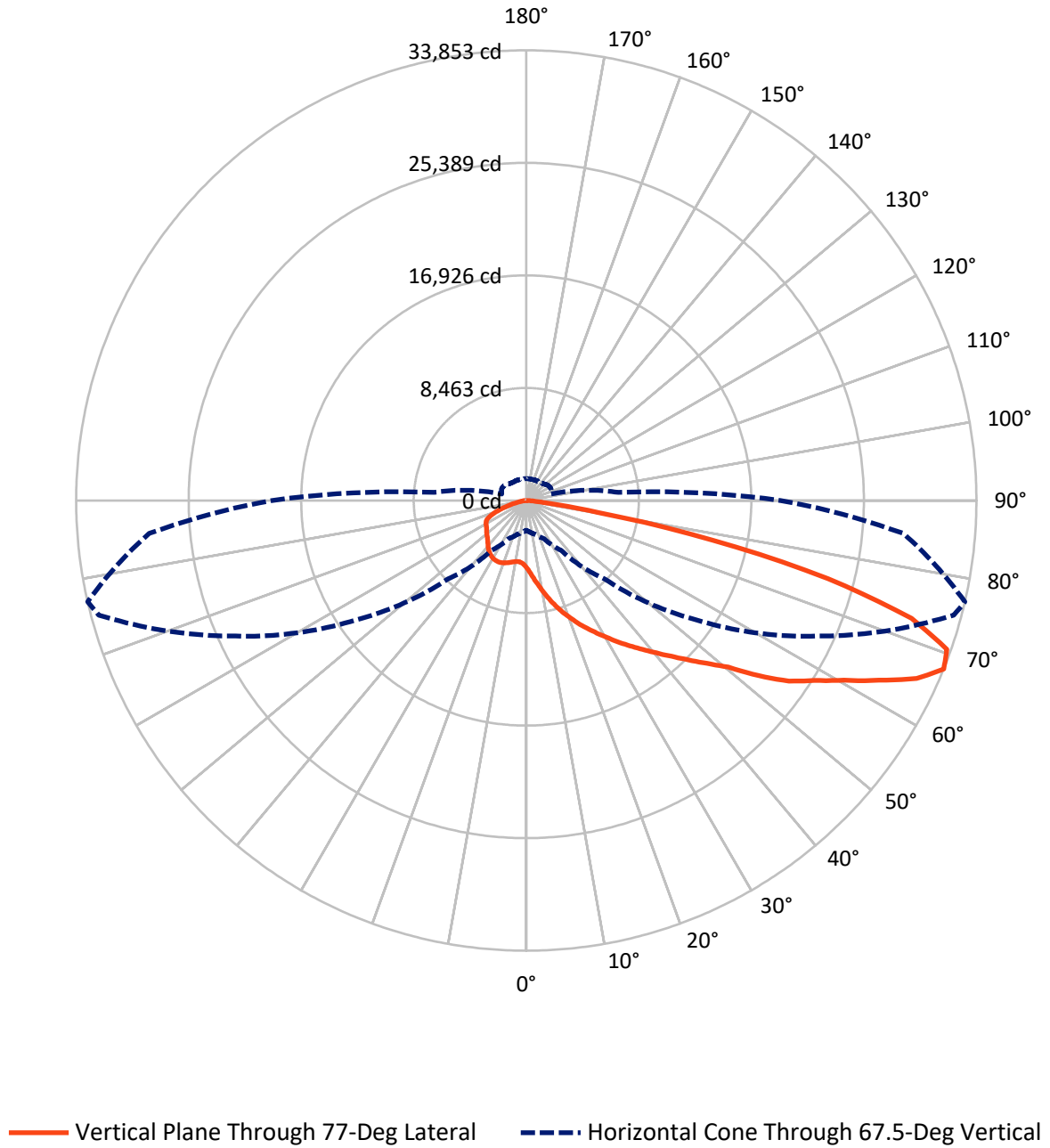
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 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	8163.0	0.0	8163.0
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	34991.0	0.0	34991.0
	% Fixture	81.1	0.0	81.1
Total	Lumens	43154.0	0.0	43154.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.7	1.3
10°-20°	1949.8	4.5
20°-30°	3681.3	8.5
30°-40°	5930.6	13.7
40°-50°	8112.0	18.8
50°-60°	9150.4	21.2
60°-70°	8540.7	19.8
70°-80°	4681.8	10.8
80°-90°	564.7	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°	43154.0	100.0
0°-180°	43154.0	100.0

Coefficient of Utilization



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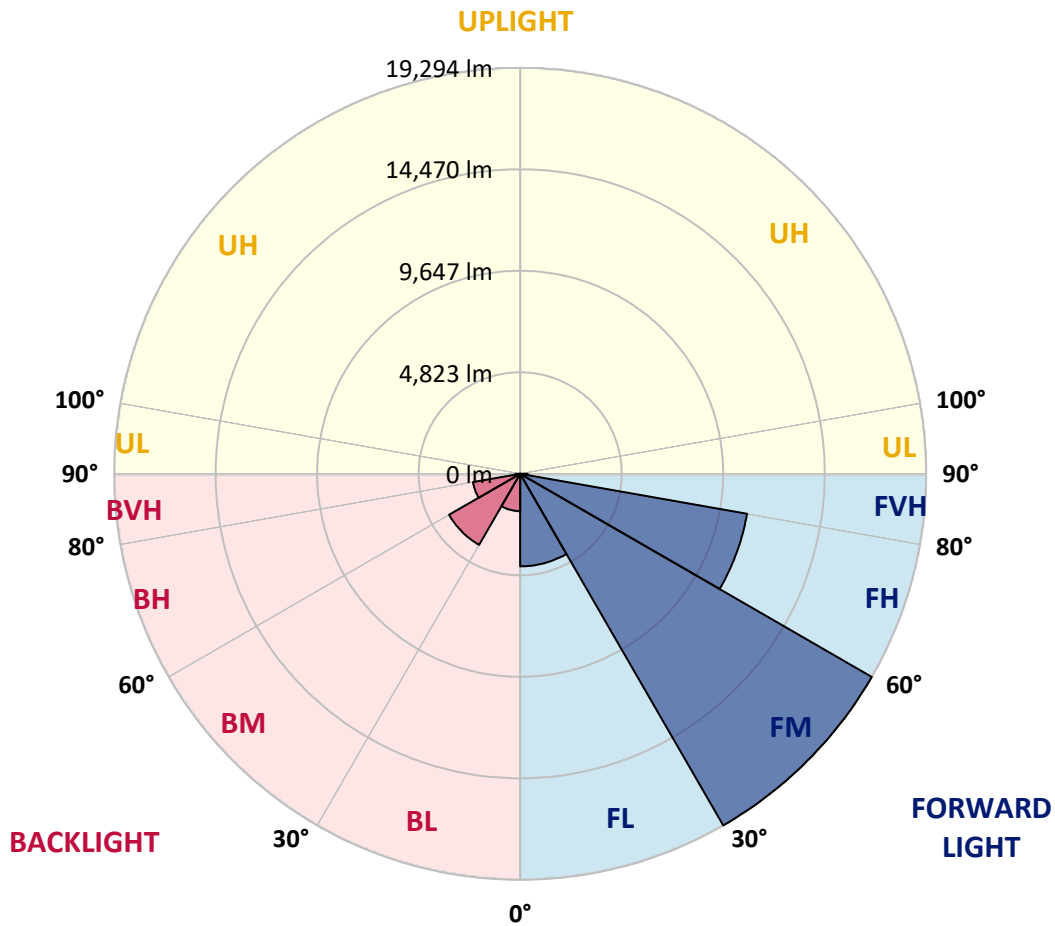
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4399.0	10.2			
FM (30°-60°)	19293.7	44.7			
FH (60°-80°)	10945.1	25.4			G4/12000
FVH (80°-90°)	353.2	0.8			G3/500
BL (0°-30°)	1774.8	4.1	B3/2500		
BM (30°-60°)	3899.3	9.0	B3/5000		
BH (60°-80°)	2277.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	211.6	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°	5063.3	5063.3	5063.3	5063.3	5063.3	5063.3	5063.3	5063.3	5063.3	5063.3
2.5°	6339.7	6384.3	6328.6	6328.6	6141.5	6043.4	5856.3	5713.8	5457.6	5413.0
5°	7493.6	7549.3	7471.3	7437.9	7217.4	7014.7	6700.6	6390.9	5934.3	5887.5
7.5°	8386.9	8458.1	8389.1	8353.5	8157.4	7930.2	7562.7	7130.5	6486.7	6395.4
10°	9115.3	9126.4	9104.1	9117.5	8963.8	8776.7	8400.2	7896.8	7092.6	6967.9
12.5°	9527.4	9578.6	9623.2	9703.4	9676.6	9560.8	9222.2	8620.8	7734.2	7573.8
15°	9721.2	9810.3	9910.5	10095.4	10244.7	10273.6	10015.2	9398.2	8386.9	8193.1
17.5°	9790.2	9874.9	10033.1	10300.4	10621.1	10837.2	10721.4	10153.3	9032.9	8810.1
20°	10140.0	10164.5	10260.3	10514.2	10861.7	11220.4	11307.2	10879.5	9672.2	9420.5
22.5°	10888.4	10839.4	10866.2	10982.0	11231.5	11579.0	11777.3	11521.1	10329.3	10039.7
25°	12124.8	11982.2	11839.6	11706.0	11832.9	12029.0	12254.0	12162.6	11017.6	10650.1
27.5°	13686.3	13512.5	13198.5	12759.6	12605.9	12675.0	12775.2	12757.4	11654.7	11282.7
30°	15223.3	15020.6	14646.4	14011.5	13606.1	13423.4	13347.7	13296.5	12347.5	11951.0
32.5°	16450.7	16290.3	15922.8	15212.2	14624.1	14312.2	14060.5	13877.9	13071.5	12675.0
35°	17524.4	17375.2	16954.2	16179.0	15539.6	15207.7	14878.1	14488.2	13824.4	13423.4
37.5°	18504.6	18355.3	17778.4	16972.0	16328.2	16098.8	15804.7	15143.1	14579.6	14200.9
40°	19123.8	19090.4	18551.3	17638.0	16969.8	16856.1	16758.1	15902.7	15417.1	15065.2
42.5°	19282.0	19355.5	18927.8	18177.1	17540.0	17448.7	17678.1	16762.6	16357.2	16020.8
45°	18901.1	19112.7	18832.0	18321.9	17945.4	17896.4	18493.4	17702.6	17397.5	17090.0
47.5°	17936.5	18295.2	18179.3	18108.1	18054.6	18266.2	19210.7	18700.6	18575.8	18308.5
50°	15989.6	16669.0	16871.7	17321.7	17838.5	18553.6	19863.4	19789.9	19952.5	19683.0
52.5°	12623.7	13559.3	14735.5	15862.6	17174.7	18457.8	20580.7	21353.6	22039.7	21892.7
55°	10420.7	10841.7	11746.1	13813.3	15887.1	18054.6	20903.7	22616.7	24111.4	23980.0
57.5°	8727.7	9104.1	9661.0	11387.4	13940.2	17139.1	21104.2	23387.4	25530.4	25517.0
60°	6912.2	7310.9	7881.2	9104.1	11665.9	15557.5	21059.6	24265.1	27341.4	27452.8
62.5°	4862.8	5301.7	5934.3	7074.8	9342.5	13508.1	20150.8	24900.0	29473.2	29776.2
65°	3196.6	3486.2	3962.9	4947.5	6961.2	10872.9	18415.5	24982.4	31754.3	32266.6
67.5°	2241.0	2352.3	2633.0	3167.6	4588.8	8337.9	15651.0	24129.2	33275.7	33852.6
70°	1748.7	1804.3	1946.9	2160.8	2882.5	5606.8	11993.3	21910.5	32950.5	33551.9
72.5°	1510.3	1563.8	1617.2	1644.0	1933.5	3461.7	8124.0	18319.7	29887.5	30295.2
75°	1370.0	1383.3	1427.9	1419.0	1474.7	2245.4	4689.1	13347.7	23581.2	23440.9
77.5°	1151.7	1169.5	1243.0	1231.9	1309.8	1534.8	2434.8	8614.1	15287.9	14334.5
80°	975.7	984.6	1064.8	1051.4	1138.3	1111.6	1243.0	4390.6	6484.5	5493.2
82.5°	338.6	418.8	813.1	837.6	868.8	672.7	717.3	1791.0	1980.3	1517.0
85°	164.8	176.0	414.3	588.1	585.9	338.6	349.7	639.3	623.7	490.1
87.5°	26.7	33.4	49.0	229.4	182.7	89.1	120.3	124.7	129.2	111.4
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°
5063.3	0°	5063.3	5063.3	5063.3	5063.3	5063.3	5063.3	5063.3	5063.3	5063.3	5063.3
5243.7	2.5°	5119.0	5007.6	4773.7	4557.6	4388.3	4225.7	4134.4	4056.4	4011.9	4003.0
5488.8	5°	5257.1	5027.7	4602.2	4243.6	4009.7	3835.9	3744.6	3686.7	3657.7	3639.9
5818.5	7.5°	5455.4	5119.0	4513.1	4105.4	3860.4	3735.7	3688.9	3680.0	3677.7	3680.0
6217.2	10°	5729.4	5268.2	4504.2	4072.0	3867.1	3798.0	3795.8	3798.0	3806.9	3809.2
6651.6	12.5°	6025.6	5421.9	4539.8	4101.0	3951.7	3913.9	3907.2	3905.0	3911.6	3916.1
7090.4	15°	6348.6	5624.7	4600.0	4163.4	4045.3	4005.2	3998.5	3985.2	3982.9	3980.7
7551.5	17.5°	6680.5	5825.1	4666.8	4230.2	4105.4	4049.8	4025.2	3994.1	3969.6	3962.9
8028.2	20°	7016.9	6023.4	4713.6	4263.6	4109.9	4031.9	3982.9	3929.5	3887.1	3862.6
8509.4	22.5°	7375.5	6230.6	4742.5	4254.7	4069.8	3962.9	3873.8	3811.4	3746.8	3704.5
8995.0	25°	7725.3	6411.0	4740.3	4207.9	3991.8	3856.0	3742.3	3662.2	3573.0	3528.5
9496.2	27.5°	8061.6	6573.6	4684.6	4125.5	3880.5	3729.0	3593.1	3497.3	3410.4	3368.1
10001.9	30°	8409.1	6709.5	4597.7	4005.2	3749.0	3582.0	3432.7	3350.3	3272.3	3232.2
10536.5	32.5°	8754.4	6834.2	4475.2	3856.0	3597.6	3437.2	3290.1	3214.4	3167.6	3167.6
11111.2	35°	9119.7	6921.1	4312.6	3682.2	3437.2	3283.5	3167.6	3123.1	3118.6	3091.9
11719.3	37.5°	9505.1	6976.8	4114.4	3504.0	3279.0	3134.2	3098.6	3045.1	3000.6	2942.6
12387.6	40°	9910.5	7032.5	3876.0	3319.1	3111.9	3031.7	3016.2	2944.9	2817.9	2675.3
13145.0	42.5°	10402.8	7070.4	3628.7	3134.2	2936.0	2909.2	2931.5	2809.0	2606.3	2499.4
14058.3	45°	10973.1	7132.7	3401.5	2951.6	2755.5	2755.5	2849.1	2688.7	2521.6	2454.8
15100.8	47.5°	11712.7	7277.5	3189.9	2751.1	2588.5	2633.0	2666.4	2543.9	2450.3	2367.9
16370.5	50°	12781.9	7625.0	2971.6	2548.4	2461.5	2550.6	2503.8	2432.5	2323.4	2256.5
18388.7	52.5°	14109.5	7830.0	2777.8	2365.7	2352.3	2441.4	2374.6	2307.8	2225.4	2136.3
19919.1	55°	15013.9	7867.8	2615.2	2232.0	2278.8	2269.9	2245.4	2185.3	2140.7	2022.6
21429.4	57.5°	16025.3	7943.6	2481.5	2151.8	2232.0	2134.0	2125.1	2073.9	2016.0	1935.8
23271.6	60°	17234.8	8061.6	2365.7	2120.7	2191.9	2044.9	2000.4	1980.3	1922.4	1882.3
25488.0	62.5°	18553.6	8168.6	2247.6	2125.1	2145.2	1958.0	1891.2	1884.5	1848.9	1835.5
27568.6	65°	19453.5	7876.7	2100.6	2120.7	2071.7	1868.9	1784.3	1782.1	1753.1	1748.7
28470.8	67.5°	19139.4	6952.3	1902.4	2058.3	1995.9	1779.8	1686.3	1677.4	1639.5	1641.7
27528.5	70°	17566.7	5633.6	1628.4	1904.6	1902.4	1699.6	1583.8	1554.9	1503.6	1512.5
23935.4	72.5°	14617.4	4174.5	1260.8	1648.4	1753.1	1626.1	1465.8	1419.0	1354.4	1363.3
17669.2	75°	10556.5	2837.9	917.8	1254.1	1525.9	1539.3	1349.9	1269.7	1191.8	1205.1
9834.8	77.5°	5401.9	1608.3	675.0	864.3	1198.4	1398.9	1245.2	1138.3	1120.5	1245.2
2835.7	80°	1762.0	806.4	467.8	605.9	786.3	1145.0	1091.5	969.0	964.5	993.5
594.8	82.5°	525.7	340.8	300.7	398.7	434.4	877.7	942.3	732.9	630.4	663.8
198.3	85°	180.4	164.8	171.5	198.3	207.2	514.6	659.4	485.6	458.9	505.7
44.6	87.5°	42.3	57.9	49.0	44.6	44.6	124.7	256.2	202.7	280.7	187.1
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

<u>180°</u>
5063.3
4003.0
3637.6
3686.7
3811.4
3918.3
3978.5
3969.6
3871.5
3706.7
3528.5
3365.9
3230.0
3169.9
3085.2
2933.7
2655.3
2501.6
2465.9
2365.7
2249.9
2118.4
2024.9
1909.0
1893.4
1835.5
1746.4
1641.7
1521.4
1361.1
1209.6
1227.4
853.2
686.1
499.0
180.4
0.0

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