

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: P953857

Luminaire Tested: **GALN-SB7B-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-740-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43494 lumens
Efficiency: N/A
Efficacy: 169.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

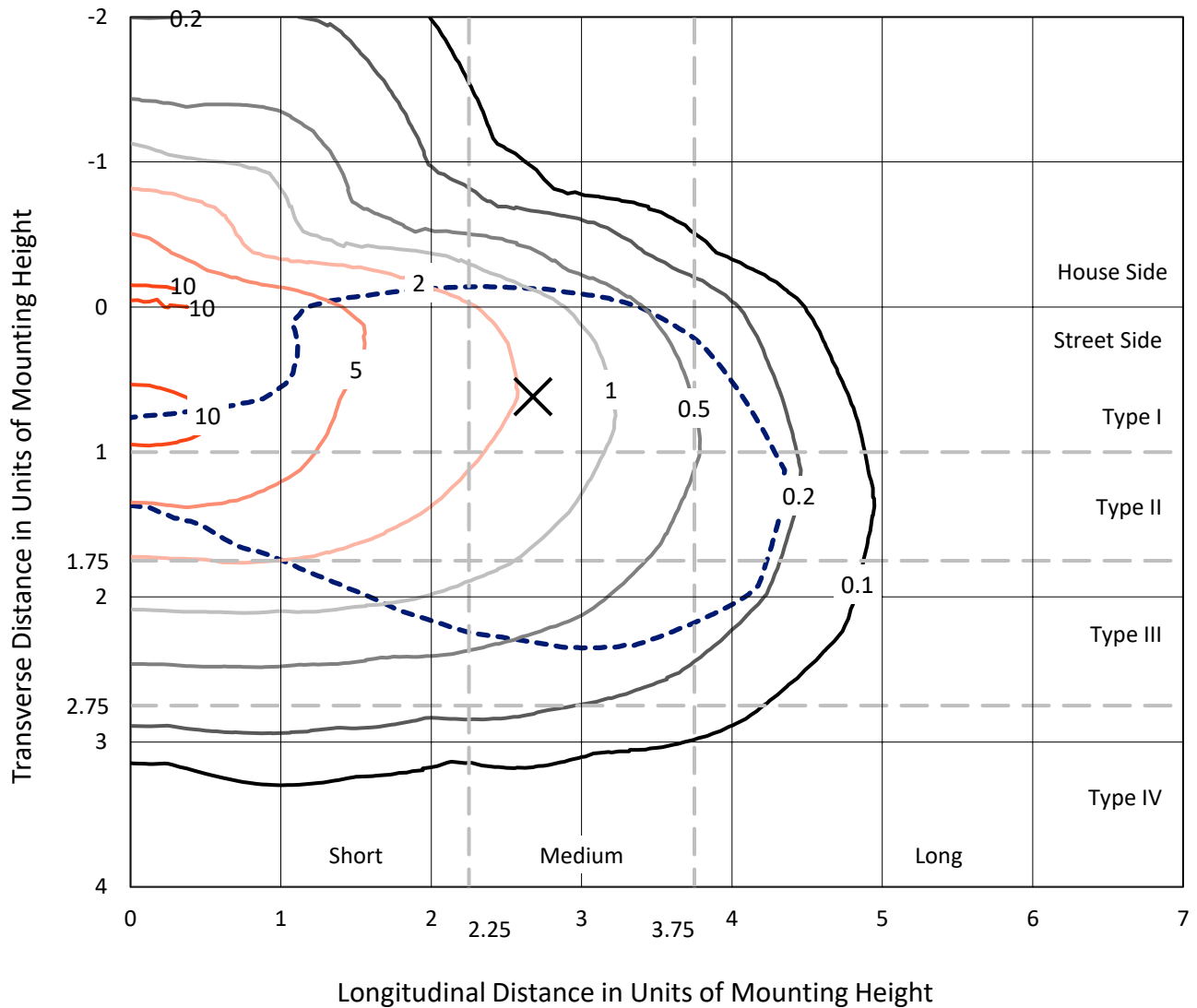
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

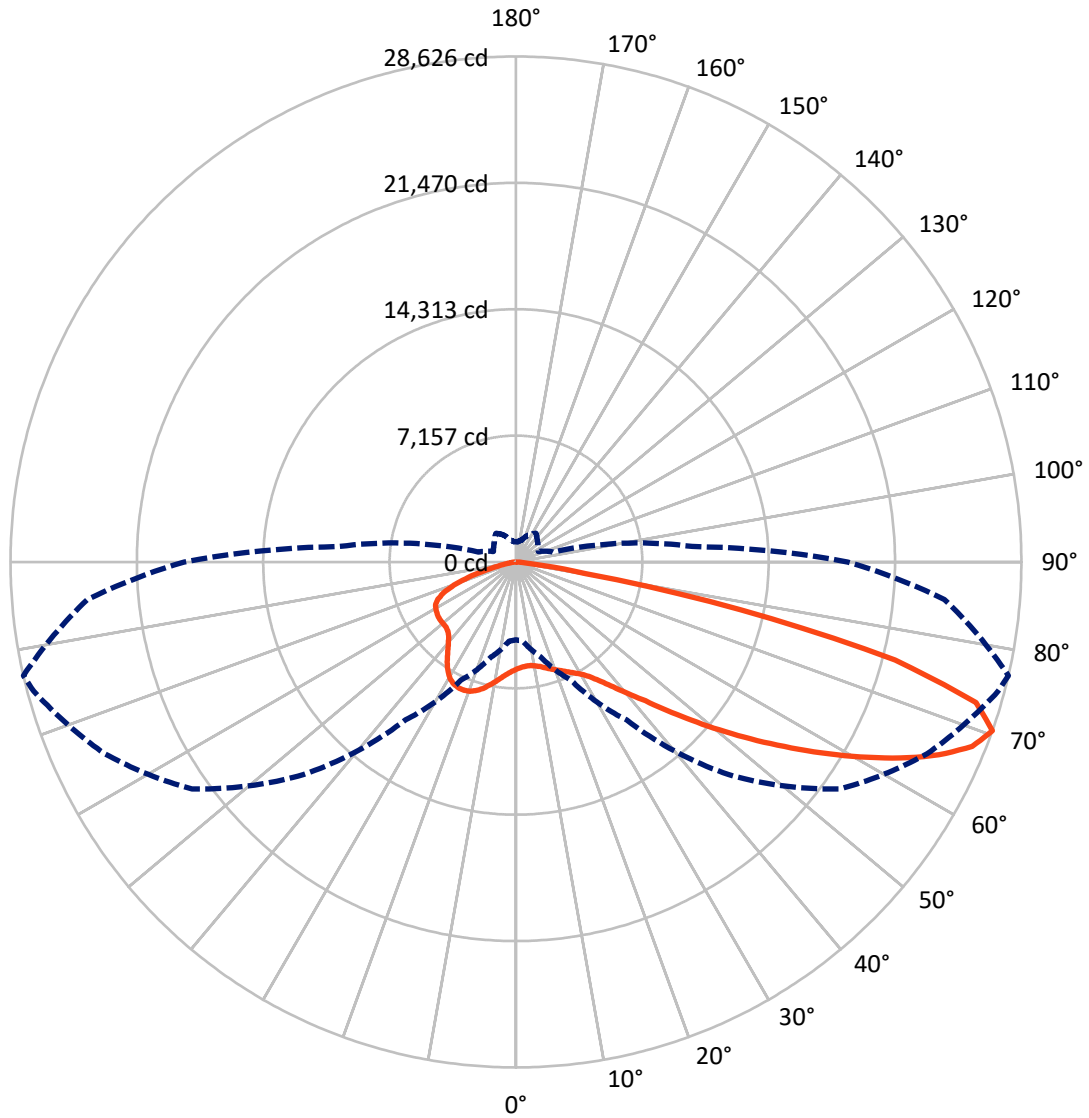
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9524.5	0.0	9524.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	33969.5	0.0	33969.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	43494.0	0.0	43494.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.7	1.3
10°-20°	1670.2	3.8
20°-30°	2856.3	6.6
30°-40°	4593.2	10.6
40°-50°	7171.2	16.5
50°-60°	9579.0	22.0
60°-70°	10209.7	23.5
70°-80°	6285.0	14.5
80°-90°	550.7	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°	43494.0	100.0
0°-180°	43494.0	100.0



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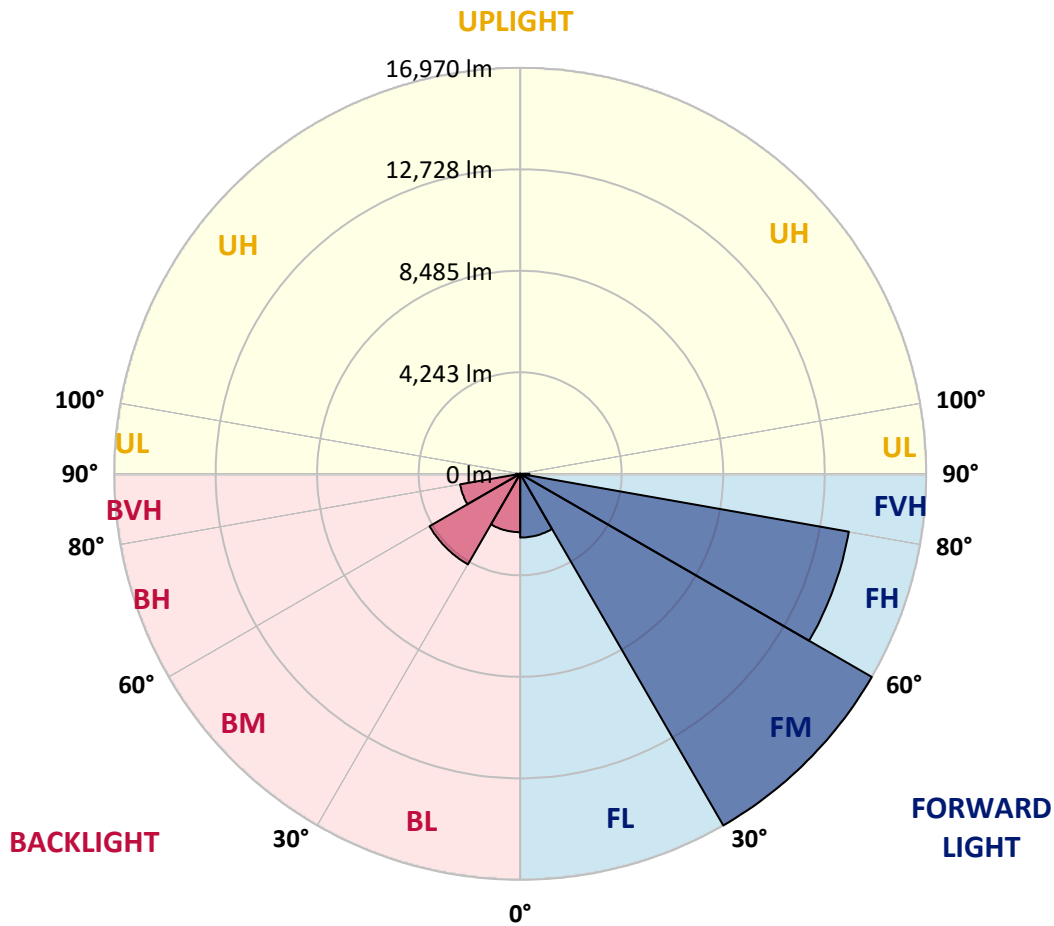
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2664.7	6.1			
FM (30°-60°)	16970.4	39.0			
FH (60°-80°)	13949.2	32.1			G5
FVH (80°-90°)	385.1	0.9			G3/500
BL (0°-30°)	2440.5	5.6	B3/2500		
BM (30°-60°)	4372.9	10.1	B3/5000		
BH (60°-80°)	2545.5	5.9	B4/5000		G4/5000
BVH (80°-90°)	165.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6067.8	6067.8	6067.8	6067.8	6067.8	6067.8	6067.8	6067.8	6067.8	6067.8
2.5°	5593.3	5591.1	5620.1	5629.0	5682.4	5720.3	5791.6	5867.3	5965.3	5976.5
5°	5270.4	5270.4	5303.8	5339.4	5408.5	5484.2	5593.3	5724.8	5894.1	5920.8
7.5°	4996.4	5014.2	5043.1	5112.2	5192.4	5301.5	5468.6	5655.7	5878.5	5920.8
10°	4775.8	4795.9	4831.5	4887.2	5007.5	5159.0	5377.3	5617.8	5916.3	5983.2
12.5°	4706.8	4726.8	4746.9	4789.2	4900.6	5078.8	5339.4	5635.7	6007.7	6074.5
15°	4867.2	4891.7	4876.1	4864.9	4922.9	5085.5	5357.2	5700.3	6121.3	6217.1
17.5°	5236.9	5245.8	5210.2	5105.5	5096.6	5183.5	5441.9	5789.4	6263.8	6368.5
20°	5833.9	5818.3	5744.8	5537.7	5419.6	5401.8	5586.7	5923.0	6410.9	6522.2
22.5°	6644.7	6626.9	6479.9	6152.5	5889.6	5715.9	5796.1	6096.8	6575.7	6700.4
25°	7656.0	7631.5	7415.5	6970.0	6562.3	6132.4	6081.2	6326.2	6778.4	6894.2
27.5°	8836.6	8816.6	8582.7	7994.6	7406.6	6702.7	6435.4	6595.7	6990.0	7121.4
30°	10106.3	10164.2	9749.9	9117.3	8373.3	7446.7	6912.0	6927.6	7264.0	7382.1
32.5°	11598.8	11699.0	11200.1	10398.1	9382.4	8255.3	7513.5	7391.0	7662.7	7760.7
35°	13077.9	13191.5	12777.2	11890.6	10721.1	9208.6	8141.6	7923.3	8192.9	8299.8
37.5°	14356.5	14507.9	14294.1	13523.4	12153.4	10358.0	8961.4	8549.3	8845.5	8979.2
40°	15365.5	15597.2	15581.6	15100.5	13841.9	11752.5	10001.6	9322.2	9656.4	9801.2
42.5°	16185.3	16385.8	16559.5	16535.0	15603.9	13336.3	11224.6	10326.9	10580.8	10747.9
45°	16751.1	16964.9	17339.1	17742.3	17299.0	15031.4	12625.7	11518.6	11750.3	12002.0
47.5°	17256.7	17499.5	17985.1	18624.4	18738.0	16733.3	14160.5	12906.3	13118.0	13378.6
50°	17301.3	17510.7	18263.6	19170.2	19760.5	18368.3	15808.8	14463.4	14661.6	14940.1
52.5°	16225.4	16555.1	17869.3	19154.6	20230.5	19736.0	17446.1	16082.8	16305.6	16639.7
55°	12594.5	13077.9	16713.2	18557.6	20063.4	20620.3	19003.1	17804.7	18089.8	18439.5
57.5°	10848.1	11059.7	13267.2	17470.6	19301.6	20849.7	20317.4	19544.4	20003.3	20386.4
60°	9749.9	9925.9	11231.2	15779.9	18299.2	20486.7	21333.1	21166.1	21959.1	22415.7
62.5°	8573.8	8740.9	9928.1	13175.9	17016.2	19883.0	21974.6	22663.0	23963.8	24462.8
65°	7406.6	7549.1	8687.4	11070.9	15385.6	19279.3	22306.6	23957.2	25819.4	26336.2
67.5°	6105.7	6223.7	7299.6	9340.1	13403.1	18452.9	22471.4	24975.1	27434.3	27877.6
70°	4406.1	4497.4	5608.9	7386.5	10914.9	17031.7	22404.6	25696.9	28271.9	28626.1
72.5°	2082.7	2165.2	3470.5	4795.9	7709.5	14265.1	21052.4	25124.4	27421.0	27245.0
75°	1111.5	1182.8	1993.6	2630.7	4071.9	9778.9	17227.8	21642.7	23026.0	22170.7
77.5°	752.9	808.6	1234.1	1579.3	1860.0	4642.2	11073.1	14984.6	14416.6	13004.4
80°	597.0	654.9	1011.3	1069.2	899.9	1677.3	4575.4	6936.5	4983.0	3985.1
82.5°	458.9	523.5	850.9	775.2	490.1	688.3	1332.1	2194.1	1276.4	971.2
85°	280.7	349.7	668.3	494.5	276.2	314.1	452.2	610.3	389.8	325.2
87.5°	142.6	200.5	338.6	180.4	124.7	73.5	120.3	120.3	102.5	89.1
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°
6067.8	0°	6067.8	6067.8	6067.8	6067.8	6067.8	6067.8	6067.8	6067.8	6067.8	6067.8
6036.6	2.5°	6090.1	6134.6	6210.4	6281.7	6337.3	6390.8	6444.3	6473.2	6482.1	6517.8
6070.0	5°	6161.4	6243.8	6390.8	6528.9	6615.8	6669.2	6707.1	6729.4	6733.8	6745.0
6161.4	7.5°	6292.8	6424.2	6629.1	6767.3	6831.9	6827.4	6811.8	6756.1	6733.8	6713.8
6295.0	10°	6477.7	6651.4	6903.1	6998.9	6958.8	6851.9	6713.8	6551.2	6475.4	6401.9
6477.7	12.5°	6707.1	6927.6	7174.9	7170.4	6972.2	6698.2	6377.4	6128.0	5969.8	5856.2
6702.7	15°	6985.6	7239.5	7428.8	7277.4	6843.0	6350.7	5880.7	5555.5	5412.9	5288.2
6929.9	17.5°	7272.9	7544.7	7631.5	7243.9	6517.8	5836.1	5303.8	5047.6	4907.3	4840.4
7174.9	20°	7553.6	7823.1	7751.8	7052.4	6023.3	5252.5	4778.1	4637.7	4608.8	4624.4
7413.2	22.5°	7849.8	8090.4	7776.3	6682.6	5392.9	4655.6	4394.9	4399.4	4464.0	4510.8
7662.7	25°	8152.8	8315.4	7711.7	6148.0	4715.7	4216.7	4152.1	4223.4	4350.4	4441.7
7943.4	27.5°	8444.6	8515.9	7571.4	5486.4	4134.3	3902.6	3913.8	4060.8	4252.4	4379.3
8284.2	30°	8774.3	8694.1	7301.9	4742.4	3731.1	3633.1	3726.7	3898.2	4089.8	4203.4
8714.1	32.5°	9146.3	8847.8	6874.2	4054.1	3446.0	3417.0	3570.7	3682.1	3766.8	3800.2
9284.4	35°	9609.6	9063.8	6326.2	3570.7	3189.8	3258.9	3405.9	3350.2	3316.8	3299.0
10050.6	37.5°	10211.0	9355.7	5684.7	3256.7	2982.7	3145.3	3205.4	3031.7	2900.3	2835.7
10979.5	40°	10935.0	9783.3	5067.6	3013.9	2851.2	3047.3	2942.6	2733.2	2566.1	2474.8
12024.2	42.5°	11739.1	10231.1	4548.6	2831.2	2777.7	2967.1	2748.8	2499.3	2229.8	2200.8
13269.4	45°	12583.4	10692.2	4194.5	2690.9	2742.1	2898.0	2637.4	2234.2	2042.7	2160.7
14519.1	47.5°	13427.6	11115.4	3980.6	2586.2	2724.3	2820.1	2539.4	2087.2	1951.3	2122.8
15857.8	50°	14367.6	11494.1	3884.8	2510.4	2704.2	2788.9	2392.4	2049.3	1855.5	1969.1
17243.4	52.5°	15300.9	11788.1	3813.5	2434.7	2675.3	2764.4	2321.1	2004.8	1739.7	1746.4
18637.8	55°	16232.1	11979.7	3735.6	2334.5	2610.7	2710.9	2314.4	1955.8	1652.8	1621.6
20112.4	57.5°	17225.5	12088.8	3639.8	2223.1	2499.3	2575.0	2307.7	1917.9	1626.1	1574.9
21620.5	60°	18236.8	12249.2	3515.1	2087.2	2350.1	2412.4	2292.1	1904.5	1610.5	1523.6
23041.6	62.5°	19143.4	12304.9	3365.8	1958.0	2158.5	2252.0	2258.7	1893.4	1568.2	1418.9
24222.2	65°	19738.2	12064.3	3105.2	1811.0	1951.3	2087.2	2194.1	1855.5	1492.4	1343.2
24805.8	67.5°	19713.7	11378.3	2697.5	1621.6	1750.8	1904.5	2100.6	1790.9	1401.1	1249.6
24364.8	70°	18796.0	10023.9	2180.8	1401.1	1530.3	1708.5	1980.3	1695.2	1292.0	1147.2
21665.0	72.5°	16120.7	7845.4	1583.8	1142.7	1274.2	1505.8	1824.4	1579.3	1180.6	1055.9
16011.5	75°	11516.4	4965.2	1073.7	877.6	991.3	1276.4	1630.6	1443.4	1078.1	1060.3
8019.1	77.5°	5882.9	2372.3	710.6	641.5	690.5	1006.8	1369.9	1289.7	1093.7	875.4
2281.0	80°	1913.5	875.4	447.7	436.6	458.9	670.5	1060.3	1058.1	828.6	594.8
552.4	82.5°	610.3	376.5	291.8	280.7	269.5	421.0	739.5	837.6	559.1	376.5
198.3	85°	242.8	225.0	171.5	158.2	113.6	198.3	387.6	556.9	416.5	271.8
51.2	87.5°	89.1	89.1	46.8	33.4	24.5	66.8	104.7	167.1	238.3	140.3
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>
6067.8
6537.8
6762.8
6718.3
6379.7
5829.5
5274.8
4860.5
4617.7
4521.9
4466.2
4410.5
4230.1
3818.0
3316.8
2851.2
2481.5
2229.8
2223.1
2203.0
2053.8
1793.2
1643.9
1581.6
1530.3
1418.9
1343.2
1256.3
<i>1160.5</i>
1049.2
1000.2
779.6
525.7
374.2
278.4
138.1
0.0

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