

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: P955609

Luminaire Tested: **GALN-SB8C-735-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955609  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8C-735-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

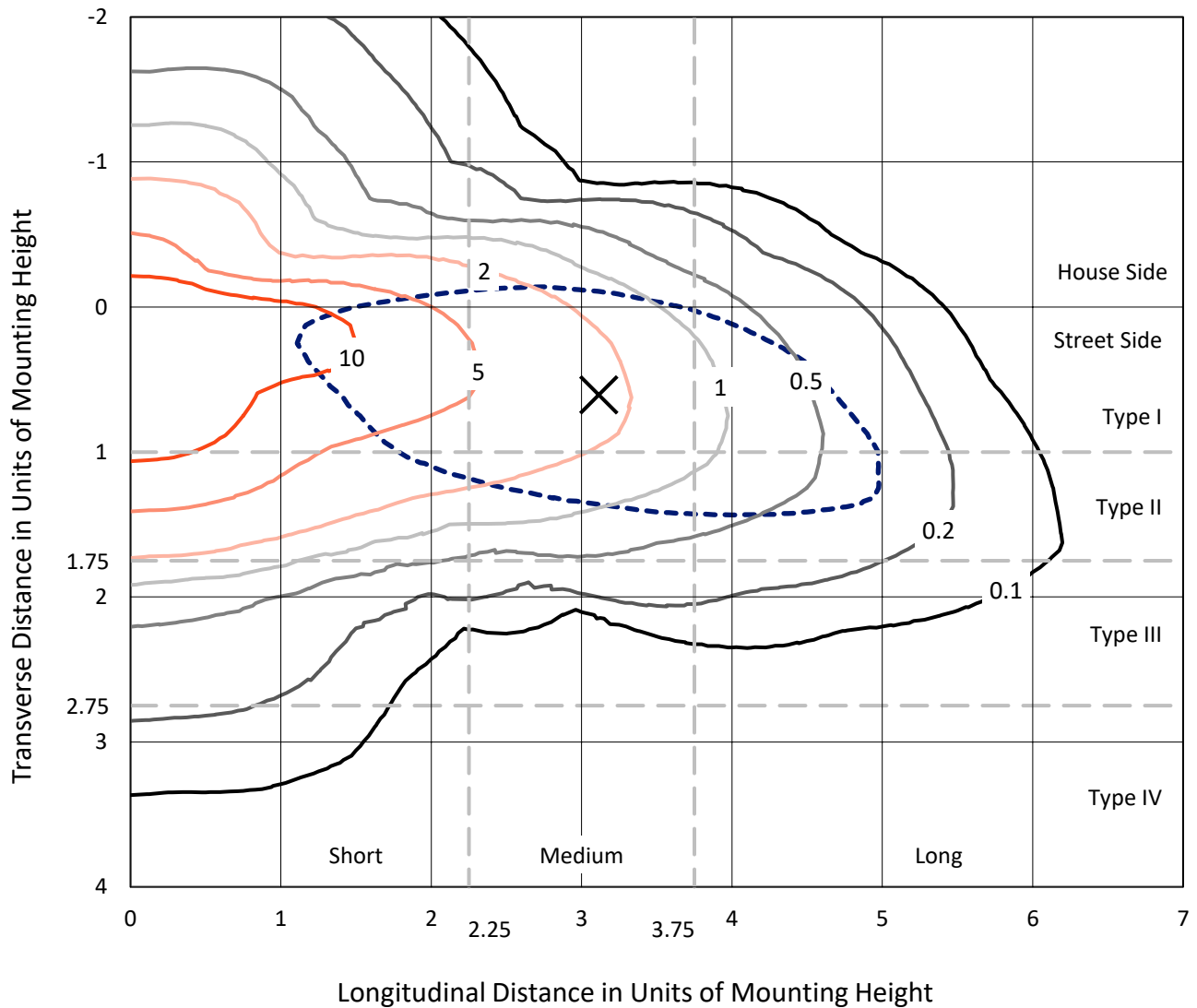
Lumens per Lamp: N/A  
Luminaire Lumens: 60192 lumens  
Efficiency: N/A  
Efficacy: 150.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

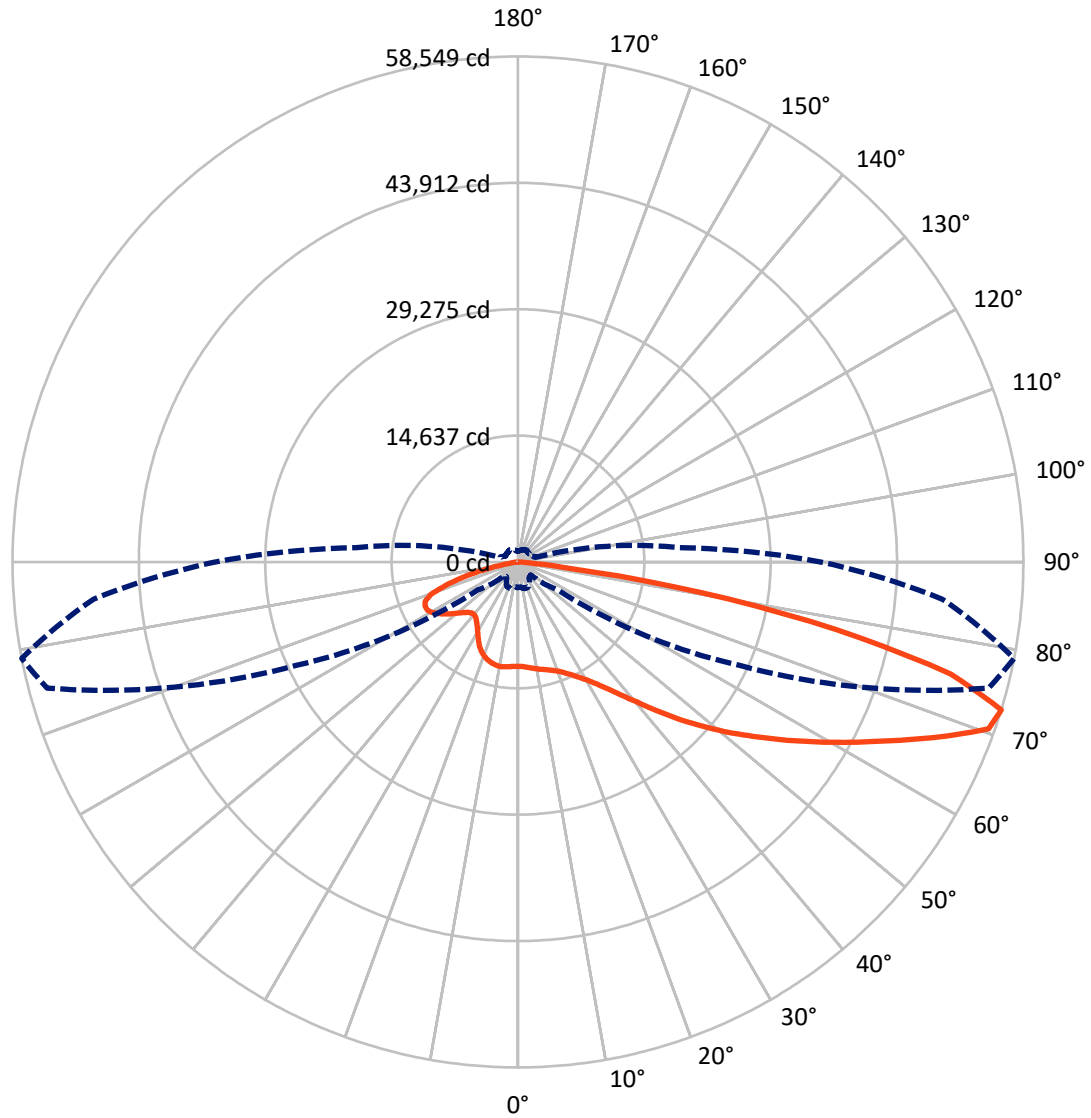
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13245.5	0.0	13245.5
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	46946.5	0.0	46946.5
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	60192.0	0.0	60192.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1096.8	1.8
10°-20°	2867.6	4.8
20°-30°	4627.0	7.7
30°-40°	6944.5	11.5
40°-50°	9851.2	16.4
50°-60°	12440.8	20.7
60°-70°	12635.3	21.0
70°-80°	8611.5	14.3
80°-90°	1117.3	1.9
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°	60192.0	100.0
0°-180°	60192.0	100.0

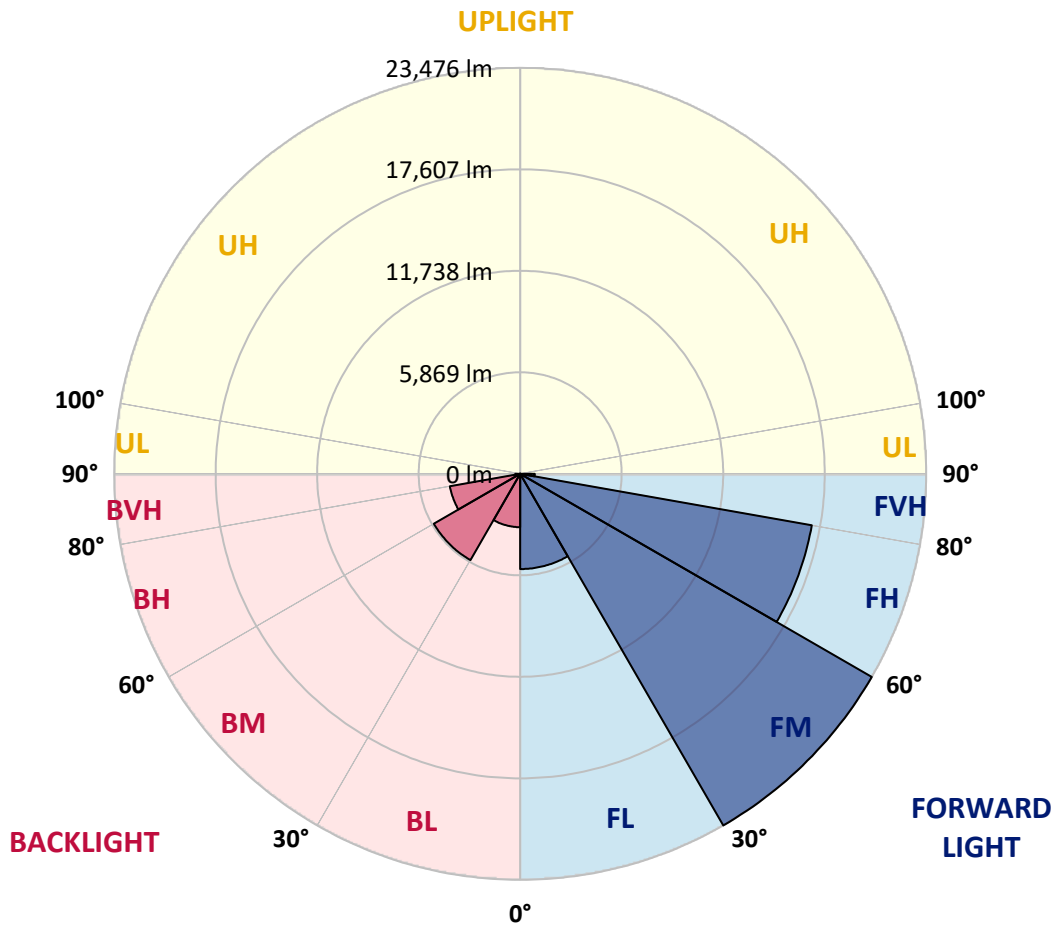


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5506.1	9.1			
FM (30°-60°)	23476.1	39.0			
FH (60°-80°)	17122.6	28.4			G5
FVH (80°-90°)	841.7	1.4			G5
BL (0°-30°)	3085.3	5.1	B4/5000		
BM (30°-60°)	5760.4	9.6	B4/8500		
BH (60°-80°)	4124.2	6.9	B4/5000		G4/5000
BVH (80°-90°)	275.6	0.5			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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	12083.0	12083.0	12083.0	12083.0	12083.0	12083.0	12083.0	12083.0	12083.0	12083.0
2.5°	12089.3	12032.0	12067.1	12054.3	12070.2	12089.3	12095.7	12105.3	12137.1	12133.9
5°	12063.9	12006.6	12054.3	12038.4	12079.8	12124.4	12162.6	12197.6	12248.5	12270.8
7.5°	12009.7	11971.5	12019.3	12067.1	12143.5	12210.3	12264.5	12344.1	12417.3	12430.0
10°	11694.5	11665.9	11777.3	11901.5	12111.6	12293.1	12410.9	12503.2	12582.8	12595.6
12.5°	11366.6	11331.6	11455.7	11624.5	11965.2	12293.1	12541.5	12662.4	12732.5	12773.9
15°	11312.5	11283.8	11353.9	11500.3	11783.7	12207.1	12630.6	12853.5	12914.0	12961.7
17.5°	11573.5	11519.4	11548.1	11599.0	11764.6	12127.5	12700.7	13070.0	13162.3	13213.3
20°	12178.5	12102.1	12057.5	11955.6	11927.0	12140.3	12694.3	13331.1	13452.1	13515.7
22.5°	12984.0	12933.1	12837.6	12579.7	12299.5	12296.3	12815.3	13665.4	13891.4	13951.9
25°	13958.3	13881.9	13760.9	13410.7	12872.6	12605.1	13019.0	14092.0	14470.9	14486.8
27.5°	15079.0	14964.4	14798.9	14337.2	13611.3	13089.1	13331.1	14582.3	15136.3	15130.0
30°	16260.3	16145.7	15970.5	15410.2	14496.4	13741.8	13764.1	15110.9	15926.0	15890.9
32.5°	17123.1	17037.1	17002.1	16569.1	15515.2	14512.3	14260.8	15696.7	16900.2	16868.4
35°	17785.4	17673.9	17715.3	17495.6	16626.4	15375.1	14868.9	16394.0	18084.7	18081.5
37.5°	18441.3	18342.6	18377.6	18231.1	17654.8	16470.4	15610.8	17247.3	19552.4	19622.5
40°	19039.8	18934.8	19074.9	18937.9	18454.0	17635.7	16454.5	18212.0	21252.7	21386.4
42.5°	19399.6	19316.8	19549.3	19552.4	19148.1	18619.6	17381.0	19275.4	23220.3	23519.6
45°	19523.8	19495.1	19845.4	19918.6	19762.6	19189.5	18215.2	20434.4	25340.8	25875.7
47.5°	19390.1	19335.9	19819.9	20090.5	20214.7	19456.9	18906.1	21688.9	27505.9	28289.1
50°	18715.1	18610.0	19329.6	19899.5	20342.1	19632.0	19603.4	23137.5	29967.0	30823.5
52.5°	17502.0	17422.4	18240.7	19230.9	20061.9	19718.0	20386.6	24719.9	32304.0	33412.0
55°	15951.4	15846.4	16747.4	18040.1	19364.6	19689.4	21169.9	26490.2	35061.3	36185.2
57.5°	13493.4	13283.3	14423.2	15951.4	18227.9	19654.3	21985.0	28250.9	37863.2	39210.0
60°	9908.4	9596.3	10994.1	12805.7	16005.6	19313.7	22994.3	30224.9	41225.4	42438.5
62.5°	5769.3	5587.8	6501.6	8192.2	12063.9	17307.8	23561.0	32520.5	44530.3	45803.9
65°	4479.8	4428.8	4508.4	4639.0	6714.9	12958.5	21813.0	34758.8	48733.1	49624.6
67.5°	4097.7	4059.5	4094.5	3849.4	3406.8	7217.9	17256.8	35325.6	53235.1	53776.4
70°	3642.4	3597.8	3712.4	3502.3	2680.9	3282.6	11150.1	33268.8	56817.0	57832.7
72.5°	2967.4	2916.5	3183.9	3088.4	2257.4	2107.8	5600.5	28381.5	56441.3	58549.1
75°	2279.7	2251.0	2569.4	2649.0	1840.3	1658.8	2687.2	21096.6	49669.1	51792.8
77.5°	1770.3	1748.0	1910.4	2200.1	1483.7	1286.3	1652.5	13382.0	37430.1	37802.7
80°	1327.7	1264.0	1413.7	1703.4	1155.8	939.3	1120.7	7803.8	23659.7	21446.9
82.5°	831.0	799.2	923.3	1136.7	815.1	646.3	729.1	4311.0	9481.7	5584.6
85°	474.4	461.7	503.1	649.5	442.6	372.5	417.1	1904.0	1732.1	1190.8
87.5°	191.0	184.7	229.2	289.7	162.4	136.9	146.5	458.5	382.1	353.4
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°
12083.0	0°	12083.0	12083.0	12083.0	12083.0	12083.0	12083.0	12083.0	12083.0	12083.0	12083.0
12130.7	2.5°	12118.0	12118.0	12073.4	12003.4	11923.8	11872.8	11790.1	11767.8	11681.8	11656.3
12239.0	5°	12264.5	12239.0	12102.1	11904.7	11634.0	11385.7	11111.9	10939.9	10698.0	10612.0
12452.3	7.5°	12449.1	12379.1	12143.5	11710.5	11143.7	10586.5	10007.1	9567.7	9147.4	8997.8
12627.4	10°	12617.9	12519.2	12118.0	11360.2	10379.6	9414.8	8491.5	7845.2	7354.9	7154.3
12821.6	12.5°	12786.6	12605.1	11949.2	10777.6	9293.9	7985.3	7001.4	6498.4	6195.9	5953.9
12980.8	15°	12945.8	12691.1	11688.2	9997.5	8103.1	6775.4	6049.4	5648.3	5406.3	5247.1
13213.3	17.5°	13130.5	12764.3	11296.5	9007.3	6969.6	5938.0	5345.8	5103.8	5056.1	5037.0
13531.7	20°	13388.4	12831.2	10780.7	7899.3	6135.4	5269.4	4963.7	4941.4	4938.3	4928.7
13913.7	22.5°	13665.4	12910.8	10099.4	6893.2	5425.4	4852.3	4798.2	4753.6	4724.9	4721.8
14375.4	25°	13993.3	12936.3	9246.1	6068.5	4820.5	4654.9	4591.2	4524.3	4505.2	4505.2
14900.7	27.5°	14311.7	12850.3	8252.7	5352.2	4479.8	4473.4	4390.6	4368.3	4365.2	4374.7
15499.3	30°	14630.1	12687.9	7265.7	4689.9	4282.4	4282.4	4253.7	4269.6	4282.4	4314.2
16320.8	32.5°	15059.9	12516.0	6441.1	4199.6	4110.4	4078.6	4107.3	4139.1	4151.8	4193.2
17400.1	35°	15690.4	12395.0	5785.2	3932.1	3932.1	3890.7	3906.7	3900.3	3871.6	3852.5
18705.5	37.5°	16524.5	12388.6	5243.9	3808.0	3782.5	3776.1	3779.3	3737.9	3626.5	3492.8
20284.7	40°	17527.5	12560.6	4826.8	3722.0	3702.9	3741.1	3722.0	3610.6	3304.9	3072.5
22226.9	42.5°	18874.3	13050.9	4559.4	3616.9	3674.2	3722.0	3645.6	3260.3	3053.4	2897.4
24439.8	45°	20459.9	13846.9	4422.5	3505.5	3620.1	3677.4	3308.1	3139.3	2973.8	2785.9
26853.2	47.5°	22255.6	14849.8	4390.6	3400.4	3499.1	3534.1	3164.8	3088.4	2900.5	2696.8
29279.3	50°	24210.5	16037.4	4476.6	3276.3	3324.0	3203.0	3117.1	3047.0	2852.8	2652.2
31766.0	52.5°	26232.3	17346.0	4648.5	3107.5	3148.9	3015.2	3098.0	3037.5	2824.1	2553.5
34335.4	55°	28219.1	18664.1	4814.1	2910.1	2970.6	2846.4	3043.8	2999.3	2693.6	2387.9
37076.7	57.5°	30237.7	19975.9	4976.5	2735.0	2798.7	2684.0	2957.9	2897.4	2547.1	2235.1
40069.6	60°	32335.9	21249.5	5052.9	2566.2	2610.8	2534.4	2827.3	2722.3	2381.6	2079.1
43011.6	62.5°	34300.4	22309.7	4928.7	2397.5	2426.1	2394.3	2655.4	2515.3	2216.0	1904.0
46077.7	65°	36271.2	22940.1	4546.6	2231.9	2238.3	2222.4	2413.4	2292.4	2021.8	1751.2
48761.7	67.5°	38057.4	23293.5	3938.5	2053.6	2037.7	2031.3	2187.4	2050.4	1833.9	1598.3
50802.6	70°	38436.3	22395.7	3008.8	1843.5	1843.5	1827.6	1939.0	1798.9	1627.0	1435.9
49341.2	72.5°	35105.9	18839.2	2136.4	1604.7	1630.2	1598.3	1690.7	1572.9	1416.8	1289.5
42524.4	75°	28308.2	13815.0	1553.8	1359.5	1404.1	1350.0	1435.9	1353.2	1219.4	1216.3
29304.8	77.5°	19450.6	8542.5	1127.1	1120.7	1152.6	1082.5	1181.2	1136.7	1015.7	961.5
12754.8	80°	8300.5	3406.8	821.5	866.0	866.0	802.3	917.0	929.7	824.6	799.2
2461.2	82.5°	1652.5	967.9	576.3	595.4	560.4	541.3	649.5	719.6	993.4	1104.8
741.9	85°	496.7	356.6	347.0	324.8	286.6	289.7	382.1	722.7	891.5	509.4
245.2	87.5°	136.9	89.1	92.3	73.2	60.5	79.6	130.5	547.6	299.3	127.4
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>
12083.0
11697.7
10675.7
9016.9
7198.8
6033.5
5275.8
5049.7
4960.5
4756.8
4524.3
4400.2
4336.5
4228.2
3897.1
3495.9
3066.1
2891.0
2773.2
2680.9
2629.9
2534.4
2372.0
2228.7
2069.5
1900.8
1732.1
1579.2
1429.6
1251.3
1095.3
901.0
799.2
1108.0
439.4
108.3
0.0

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