

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: P957121

Luminaire Tested: **GALN-SB9C-827-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957121  
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-SB9C-827-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

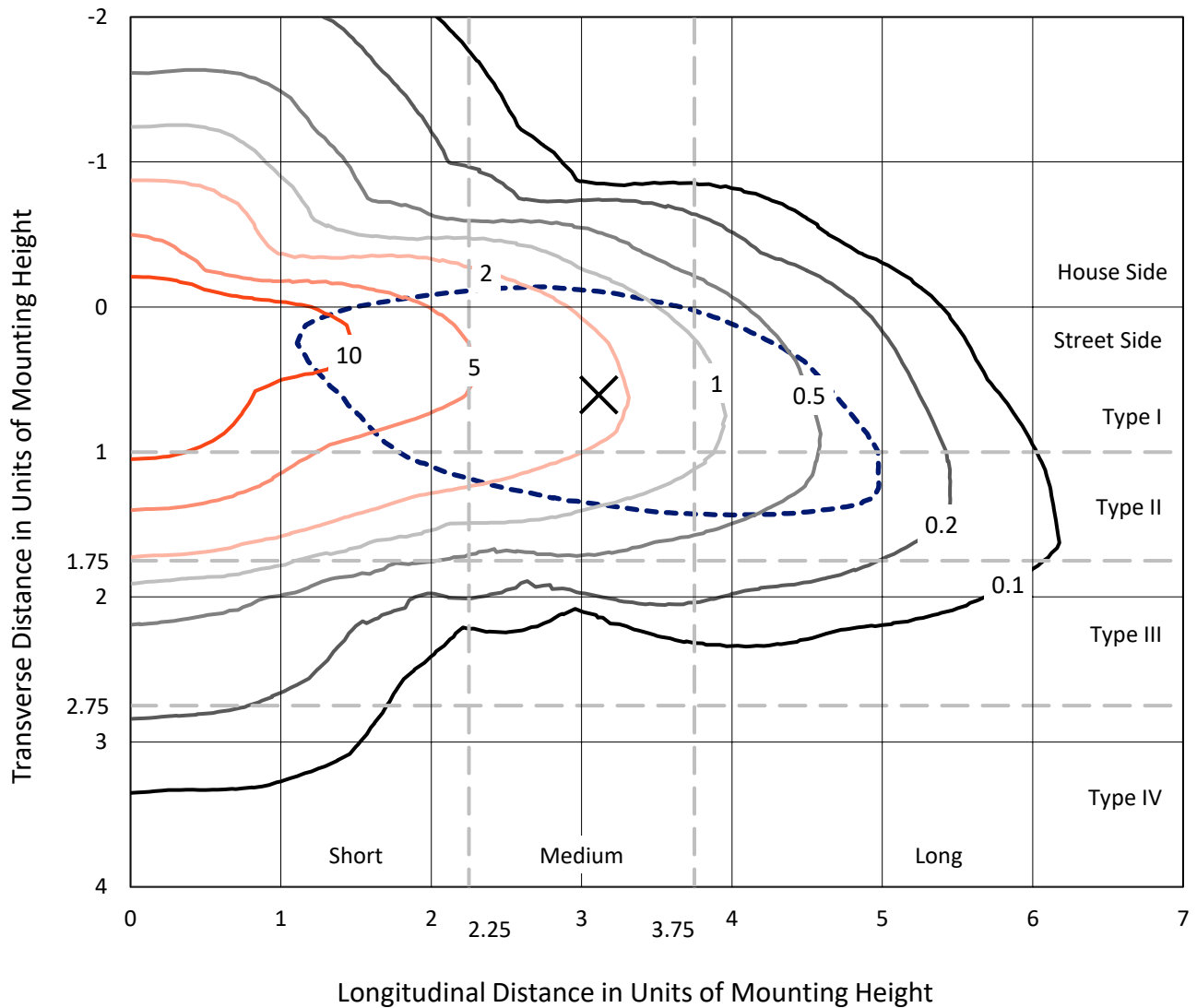
Lumens per Lamp: N/A  
Luminaire Lumens: 58957 lumens  
Efficiency: N/A  
Efficacy: 131.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

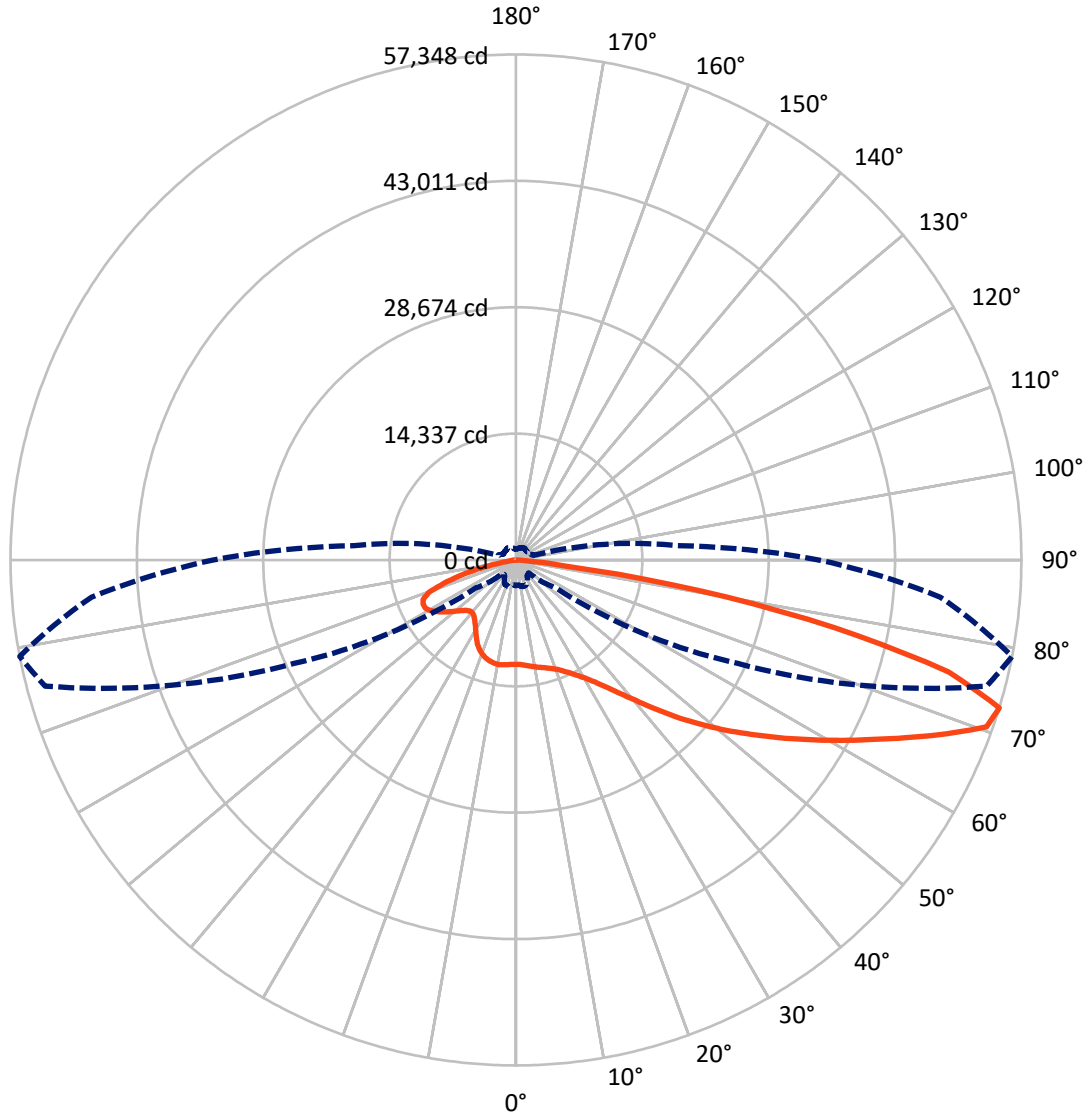
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 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	12973.8	0.0	12973.8
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	45983.2	0.0	45983.2
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	58957.0	0.0	58957.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1074.3	1.8
10°-20°	2808.7	4.8
20°-30°	4532.1	7.7
30°-40°	6802.1	11.5
40°-50°	9649.1	16.4
50°-60°	12185.5	20.7
60°-70°	12376.1	21.0
70°-80°	8434.8	14.3
80°-90°	1094.4	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°	58957.0	100.0
0°-180°	58957.0	100.0

**Coefficient of Utilization**



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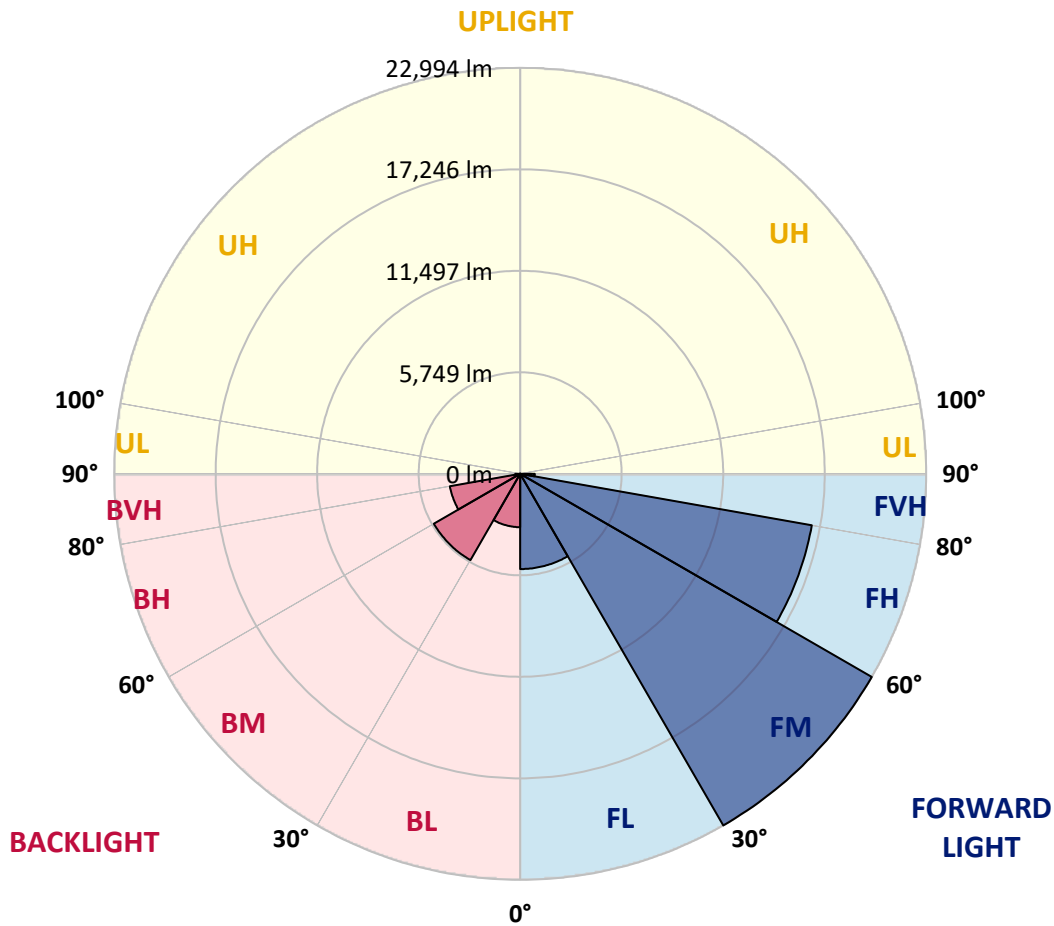
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5393.1	9.1			
FM	(30°-60°)	22994.4	39.0			
FH	(60°-80°)	16771.3	28.4			G5
FVH	(80°-90°)	824.4	1.4			G5
BL	(0°-30°)	3022.0	5.1	B4/5000		
BM	(30°-60°)	5642.2	9.6	B4/8500		
BH	(60°-80°)	4039.6	6.9	B4/5000		G4/5000
BVH	(80°-90°)	270.0	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°	11835.1	11835.1	11835.1	11835.1	11835.1	11835.1	11835.1	11835.1	11835.1	11835.1
2.5°	11841.3	11785.2	11819.5	11807.0	11822.6	11841.3	11847.5	11856.9	11888.1	11885.0
5°	11816.3	11760.2	11807.0	11791.4	11831.9	11875.6	11913.0	11947.3	11997.2	12019.1
7.5°	11763.3	11725.9	11772.7	11819.5	11894.3	11959.8	12012.8	12090.8	12162.5	12175.0
10°	11454.6	11426.5	11535.7	11657.3	11863.1	12040.9	12156.3	12246.7	12324.7	12337.2
12.5°	11133.4	11099.1	11220.7	11386.0	11719.7	12040.9	12284.1	12402.6	12471.2	12511.8
15°	11080.4	11052.3	11120.9	11264.4	11541.9	11956.7	12371.5	12589.8	12649.0	12695.8
17.5°	11336.1	11283.1	11311.1	11361.0	11523.2	11878.7	12440.1	12801.8	12892.3	12942.2
20°	11928.6	11853.8	11810.1	11710.3	11682.2	11891.2	12433.8	13057.5	13176.1	13238.4
22.5°	12717.6	12667.7	12574.2	12321.6	12047.1	12044.0	12552.3	13385.0	13606.4	13665.7
25°	13671.9	13597.1	13478.6	13135.5	12608.5	12346.5	12751.9	13802.9	14174.0	14189.6
27.5°	14769.7	14657.4	14495.2	14043.0	13332.0	12820.5	13057.5	14283.2	14825.8	14819.5
30°	15926.7	15814.4	15642.9	15094.0	14199.0	13459.8	13481.7	14800.8	15599.2	15564.9
32.5°	16771.8	16687.6	16653.3	16229.2	15196.9	14214.5	13968.2	15374.7	16553.5	16522.3
35°	17420.5	17311.3	17351.8	17136.7	16285.3	15059.7	14563.8	16057.6	17713.6	17710.5
37.5°	18062.9	17966.2	18000.5	17857.1	17292.6	16132.5	15290.5	16893.4	19151.3	19219.9
40°	18649.2	18546.3	18683.5	18549.4	18075.4	17273.9	16116.9	17838.3	20816.6	20947.6
42.5°	19001.6	18920.5	19148.2	19151.3	18755.2	18237.5	17024.4	18880.0	22743.9	23037.0
45°	19123.2	19095.1	19438.2	19509.9	19357.1	18795.8	17841.5	20015.1	24820.9	25344.8
47.5°	18992.2	18939.2	19413.2	19678.3	19799.9	19057.7	18518.2	21243.8	26941.5	27708.7
50°	18331.1	18228.2	18933.0	19491.2	19924.7	19229.2	19201.2	22662.8	29352.2	30191.1
52.5°	17142.9	17064.9	17866.4	18836.3	19650.2	19313.4	19968.3	24212.7	31641.2	32726.5
55°	15624.1	15521.2	16403.8	17669.9	18967.3	19285.4	20735.5	25946.7	34341.9	35442.8
57.5°	13216.6	13010.8	14127.2	15624.1	17853.9	19251.1	21533.9	27671.3	37086.3	38405.5
60°	9705.1	9399.4	10768.5	12543.0	15677.2	18917.4	22522.5	29604.8	40379.5	41567.7
62.5°	5650.9	5473.1	6368.2	8024.1	11816.3	16952.7	23077.6	31853.3	43616.6	44864.1
65°	4387.9	4338.0	4415.9	4543.8	6577.1	12692.7	21365.5	34045.7	47733.2	48606.4
67.5°	4013.6	3976.2	4010.5	3770.4	3336.9	7069.8	16902.8	34600.8	52142.9	52673.0
70°	3567.7	3524.0	3636.3	3430.5	2625.9	3215.3	10921.3	32586.2	55651.3	56646.1
72.5°	2906.5	2856.6	3118.6	3025.0	2211.1	2064.5	5485.6	27799.1	55283.3	57347.8
75°	2232.9	2204.8	2516.7	2594.7	1802.5	1624.8	2632.1	20663.8	48650.0	50730.1
77.5°	1733.9	1712.1	1871.2	2154.9	1453.3	1259.9	1618.5	13107.4	36662.2	37027.0
80°	1300.5	1238.1	1384.7	1668.4	1132.0	920.0	1097.7	7643.7	23174.3	21006.8
82.5°	814.0	782.8	904.4	1113.3	798.4	633.1	714.2	4222.6	9287.2	5470.0
85°	464.7	452.2	492.7	636.2	433.5	364.9	408.5	1864.9	1696.5	1166.4
87.5°	187.1	180.9	224.5	283.8	159.0	134.1	143.5	449.1	374.2	346.2
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°
11835.1	0°	11835.1	11835.1	11835.1	11835.1	11835.1	11835.1	11835.1	11835.1	11835.1	11835.1
11881.8	2.5°	11869.4	11869.4	11825.7	11757.1	11679.1	11629.2	11548.1	11526.3	11442.1	11417.2
11987.9	5°	12012.8	11987.9	11853.8	11660.4	11395.3	11152.1	10883.9	10715.5	10478.5	10394.3
12196.8	7.5°	12193.7	12125.1	11894.3	11470.2	10915.1	10369.3	9801.7	9371.4	8959.7	8813.1
12368.3	10°	12359.0	12262.3	11869.4	11127.1	10166.6	9221.7	8317.3	7684.2	7203.9	7007.5
12558.6	12.5°	12524.3	12346.5	11704.1	10556.4	9103.2	7821.4	6857.8	6365.0	6068.8	5831.8
12714.5	15°	12680.2	12430.7	11448.4	9792.4	7936.8	6636.4	5925.3	5532.4	5295.4	5139.4
12942.2	17.5°	12861.1	12502.4	11064.8	8822.5	6826.6	5816.2	5236.1	4999.1	4952.3	4933.6
13254.0	20°	13113.7	12567.9	10559.6	7737.2	6009.5	5161.3	4861.9	4840.1	4836.9	4827.6
13628.2	22.5°	13385.0	12645.9	9892.2	6751.8	5314.1	4752.7	4699.7	4656.1	4628.0	4624.9
14080.4	25°	13706.2	12670.8	9056.4	5944.0	4721.5	4559.4	4497.0	4431.5	4412.8	4412.8
14595.0	27.5°	14018.1	12586.6	8083.4	5242.4	4387.9	4381.6	4300.5	4278.7	4275.6	4284.9
15181.3	30°	14329.9	12427.6	7116.6	4593.7	4194.5	4194.5	4166.4	4182.0	4194.5	4225.7
15985.9	32.5°	14750.9	12259.2	6308.9	4113.4	4026.1	3994.9	4023.0	4054.2	4066.6	4107.2
17043.1	35°	15368.4	12140.7	5666.5	3851.5	3851.5	3810.9	3826.5	3820.3	3792.2	3773.5
18321.7	37.5°	16185.5	12134.4	5136.3	3729.8	3704.9	3698.7	3701.8	3661.2	3552.1	3421.1
19868.6	40°	17167.8	12302.8	4727.8	3645.6	3626.9	3664.3	3645.6	3536.5	3237.1	3009.4
21770.9	42.5°	18487.0	12783.1	4465.8	3542.7	3598.9	3645.6	3570.8	3193.4	2990.7	2837.9
23938.3	45°	20040.1	13562.8	4331.7	3433.6	3545.8	3602.0	3240.2	3074.9	2912.8	2728.8
26302.2	47.5°	21799.0	14545.1	4300.5	3330.7	3427.3	3461.6	3099.9	3025.0	2841.0	2641.4
28678.6	50°	23713.8	15708.3	4384.7	3209.0	3255.8	3137.3	3053.1	2984.5	2794.3	2597.8
31114.2	52.5°	25694.1	16990.1	4553.1	3043.7	3084.3	2953.3	3034.4	2975.1	2766.2	2501.1
33630.9	55°	27640.1	18281.2	4715.3	2850.4	2909.6	2788.0	2981.4	2937.7	2638.3	2338.9
36316.0	57.5°	29617.3	19566.0	4874.4	2678.9	2741.2	2629.0	2897.2	2837.9	2494.9	2189.3
39247.5	60°	31672.4	20813.5	4949.2	2513.6	2557.2	2482.4	2769.3	2666.4	2332.7	2036.4
42129.1	62.5°	33596.6	21852.0	4827.6	2348.3	2376.4	2345.2	2600.9	2463.7	2170.5	1864.9
45132.3	65°	35527.0	22469.5	4453.3	2186.1	2192.4	2176.8	2363.9	2245.4	1980.3	1715.2
47761.2	67.5°	37276.5	22815.6	3857.7	2011.5	1995.9	1989.7	2142.5	2008.4	1796.3	1565.5
49760.3	70°	37647.6	21936.2	2947.1	1805.7	1805.7	1790.1	1899.2	1762.0	1593.6	1406.5
48328.8	72.5°	34385.6	18452.7	2092.6	1571.8	1596.7	1565.5	1656.0	1540.6	1387.8	1263.0
41651.9	75°	27727.4	13531.6	1521.9	1331.6	1375.3	1322.3	1406.5	1325.4	1194.4	1191.3
28703.5	77.5°	19051.5	8367.2	1104.0	1097.7	1128.9	1060.3	1157.0	1113.3	994.8	941.8
12493.1	80°	8130.2	3336.9	804.6	848.3	848.3	785.9	898.2	910.6	807.7	782.8
2410.7	82.5°	1618.5	948.1	564.5	583.2	548.9	530.2	636.2	704.8	973.0	1082.2
726.6	85°	486.5	349.3	339.9	318.1	280.7	283.8	374.2	707.9	873.2	499.0
240.1	87.5°	134.1	87.3	90.4	71.7	59.3	78.0	127.9	536.4	293.1	124.7
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>
11835.1
11457.7
10456.6
8831.9
7051.1
5909.7
5167.5
4946.1
4858.8
4659.2
4431.5
4309.9
4247.5
4141.5
3817.2
3424.2
3003.2
2831.7
2716.3
2625.9
2576.0
2482.4
2323.4
2183.0
2027.1
1861.8
1696.5
1546.8
1400.2
1225.6
1072.8
882.6
782.8
1085.3
430.4
106.0
0.0

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