

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: P957312

Luminaire Tested: **GALN-SB9C-950-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957312  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB9C-950-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

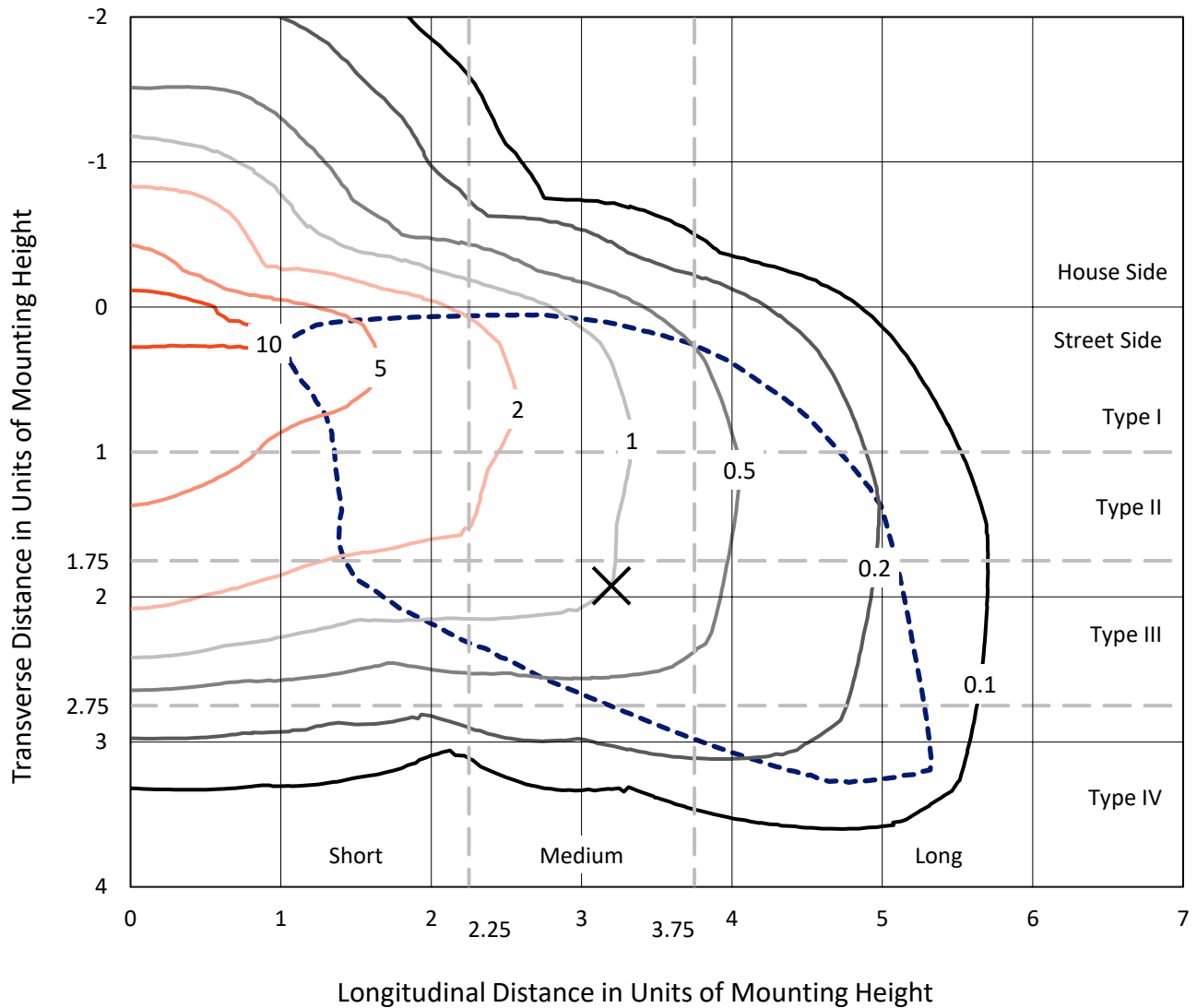
Lumens per Lamp: N/A  
Luminaire Lumens: 46377 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

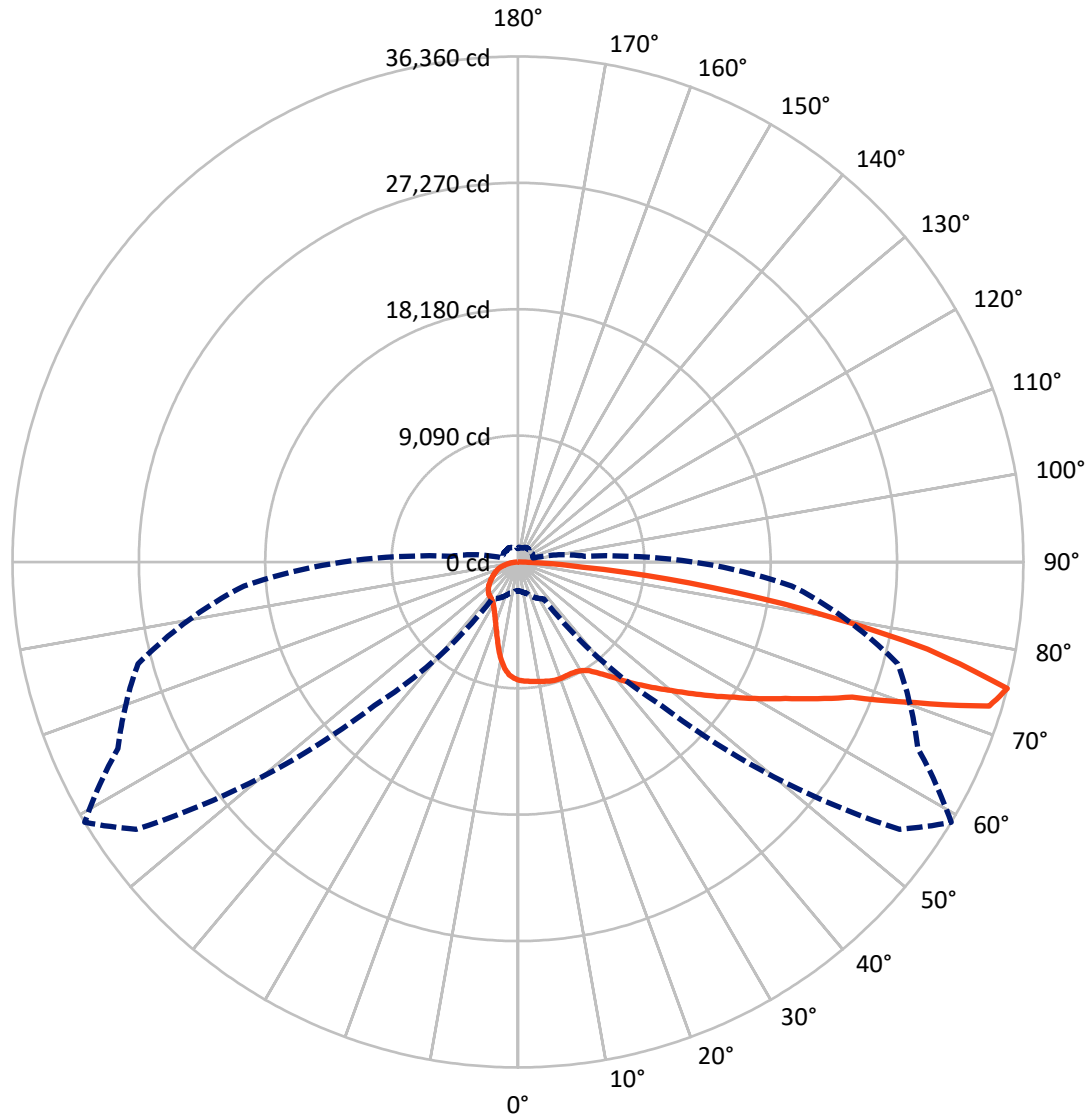
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8698.3	0.0	8698.3
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	37678.7	0.0	37678.7
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	46377.0	0.0	46377.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	763.3	1.6
10°-20°	1951.0	4.2
20°-30°	2963.4	6.4
30°-40°	4405.0	9.5
40°-50°	6551.0	14.1
50°-60°	8892.2	19.2
60°-70°	10855.9	23.4
70°-80°	8519.6	18.4
80°-90°	1475.8	3.2
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°	46377.0	100.0
0°-180°	46377.0	100.0

**Coefficient of Utilization**



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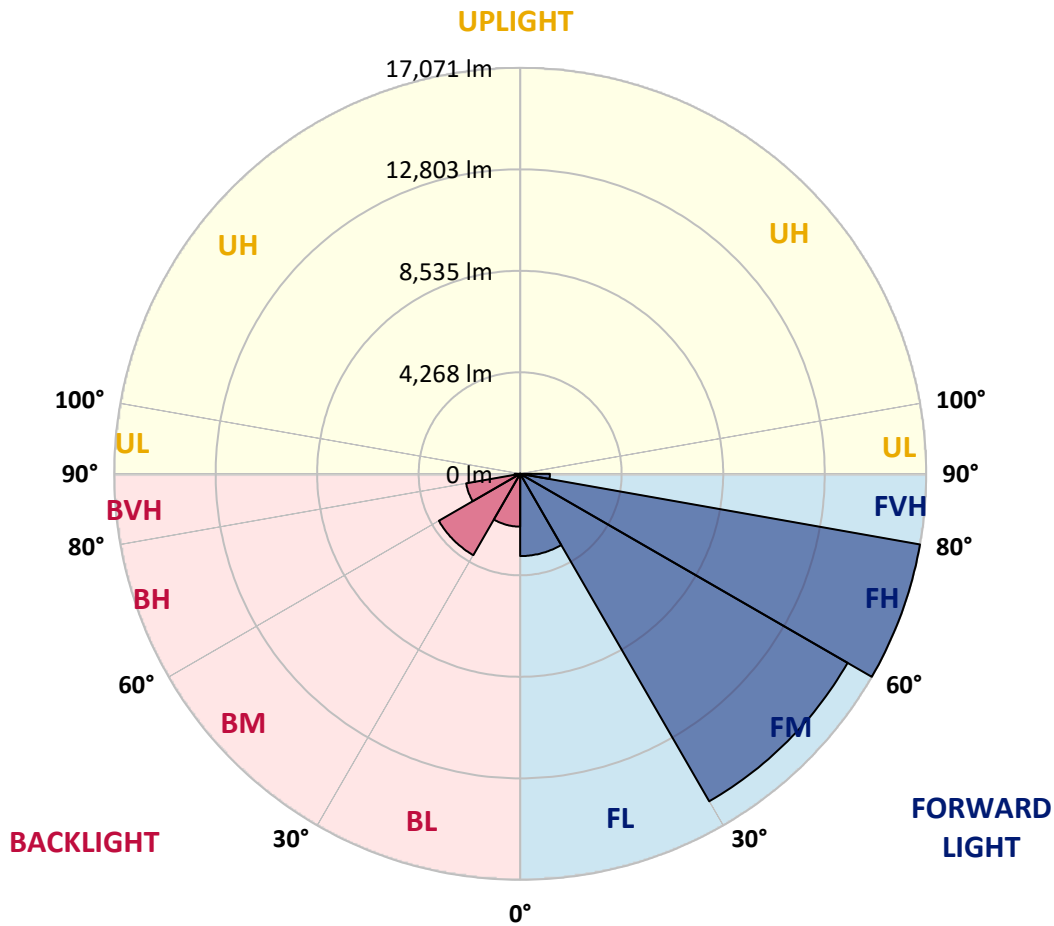
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3457.9	7.5			
FM (30°-60°)	15900.0	34.3			
FH (60°-80°)	17070.9	36.8			G5
FVH (80°-90°)	1249.9	2.7			G5
BL (0°-30°)	2219.7	4.8	B3/2500		
BM (30°-60°)	3948.2	8.5	B3/5000		
BH (60°-80°)	2304.5	5.0	B3/2500		G3/2500
BVH (80°-90°)	225.9	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4
2.5°	8584.7	8554.8	8584.7	8572.3	8567.3	8557.3	8559.8	8577.3	8567.3	8579.8
5°	8527.4	8509.9	8539.8	8532.4	8564.8	8569.8	8602.2	8622.2	8634.6	8637.1
7.5°	8432.6	8415.1	8457.5	8492.4	8562.3	8582.3	8649.6	8682.0	8699.5	8729.4
10°	8085.8	8078.3	8183.1	8315.3	8480.0	8582.3	8684.5	8739.4	8766.9	8846.7
12.5°	7472.0	7482.0	7619.2	7873.7	8203.0	8532.4	8724.5	8804.3	8846.7	8946.5
15°	6885.8	6883.3	7033.0	7304.9	7766.4	8312.8	8744.4	8881.6	8954.0	9101.2
17.5°	6546.5	6536.5	6641.3	6848.3	7277.4	7976.0	8694.5	8924.0	9078.7	9263.3
20°	6484.1	6464.1	6519.0	6621.3	6925.7	7606.8	8564.8	8924.0	9178.5	9418.0
22.5°	6711.1	6678.7	6656.2	6643.8	6778.5	7302.4	8417.6	8894.1	9325.7	9640.1
25°	7167.7	7117.8	7003.0	6890.7	6850.8	7165.2	8287.9	8886.6	9545.3	9939.4
27.5°	7906.1	7843.8	7611.8	7342.3	7100.3	7235.0	8230.5	8931.5	9787.3	10256.3
30°	8821.8	8754.4	8462.5	8048.4	7614.3	7494.5	8302.8	9063.8	10096.6	10677.9
32.5°	9642.6	9567.7	9318.2	8896.6	8310.3	7943.6	8532.4	9315.7	10583.1	11264.2
35°	10371.1	10283.7	10059.2	9670.0	9163.5	8574.8	8946.5	9762.3	11274.2	12217.2
37.5°	11084.6	10982.3	10737.8	10326.1	9971.9	9415.5	9517.8	10336.1	12192.3	13374.8
40°	11882.9	11735.7	11438.8	11032.2	10687.9	10401.0	10268.8	11039.7	13125.4	14667.2
42.5°	12656.3	12516.6	12162.3	11815.6	11384.0	11301.6	11139.5	11863.0	14145.7	16086.7
45°	13489.6	13322.4	12893.3	12454.2	12182.3	11900.4	11982.7	12686.3	15146.2	17533.7
47.5°	14270.5	14083.4	13576.9	13087.9	12938.2	12404.3	12756.1	13591.9	16186.5	19000.7
50°	14692.1	14507.5	14085.9	13644.3	13527.0	13025.6	13594.4	14587.3	17276.8	20462.7
52.5°	15043.9	14844.3	14292.9	14048.4	14013.5	13701.7	14627.2	15725.0	18367.0	21755.0
55°	15418.1	15196.1	14492.5	14273.0	14432.7	14460.1	15852.2	17014.8	19519.6	23014.9
57.5°	15849.7	15567.8	14684.6	14462.6	14841.8	15348.3	17259.3	18352.0	20652.3	24182.5
60°	16256.4	15972.0	15053.9	14764.5	15283.4	16378.6	18873.5	19971.2	21934.6	25222.8
62.5°	16336.2	16101.7	15348.3	15345.8	15882.2	17581.1	20784.5	21605.3	23054.8	26250.7
65°	14954.1	14806.9	14360.3	15323.3	16740.4	19312.6	22912.6	23696.0	24479.4	27148.9
67.5°	11381.5	11401.4	11369.0	13227.6	16046.8	21799.9	25993.7	25933.9	26238.2	28156.8
70°	5204.2	5321.5	6084.9	9131.1	12855.9	22086.8	31088.2	30312.3	28446.2	29461.6
72.5°	2811.7	2901.5	3213.4	4423.4	7729.0	19636.9	34895.3	35446.7	31382.6	30339.8
75°	2063.2	2113.1	2330.2	2811.7	3245.8	14594.8	33530.7	36359.8	31749.3	28291.5
77.5°	1544.3	1566.8	1743.9	2227.9	1661.6	7694.1	26792.1	30112.7	27178.8	23244.4
80°	1120.2	1145.1	1277.4	1671.5	1165.1	2814.2	18397.0	21136.3	18614.0	14816.9
82.5°	773.4	783.4	840.8	1137.6	813.3	1092.7	10438.4	12394.4	10391.0	5199.2
85°	466.5	479.0	504.0	663.6	461.5	518.9	4505.7	4660.4	3106.1	1242.4
87.5°	192.1	204.6	224.5	279.4	182.1	144.7	743.5	933.1	581.3	364.2
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°
8512.4	0°	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4
8537.3	2.5°	8524.9	8507.4	8460.0	8395.1	8335.3	8260.4	8228.0	8200.5	8175.6	8128.2
8604.7	5°	8577.3	8529.9	8402.6	8238.0	8050.8	7846.3	7646.7	7509.5	7392.2	7304.9
8682.0	7.5°	8657.1	8567.3	8335.3	7998.5	7569.3	7130.3	6733.6	6451.7	6239.6	6162.3
8791.8	10°	8739.4	8632.1	8228.0	7634.2	6893.2	6217.1	5690.7	5401.3	5231.7	5176.8
8921.5	12.5°	8836.7	8679.5	8060.8	7127.8	6137.3	5396.3	4937.3	4767.6	4680.3	4650.4
9081.2	15°	8978.9	8719.5	7808.9	6494.1	5416.3	4797.6	4500.7	4383.4	4338.5	4336.0
9245.9	17.5°	9086.2	8727.0	7417.2	5815.5	4862.4	4435.8	4191.3	4146.4	4176.4	4221.3
9408.0	20°	9206.0	8659.6	6903.2	5196.8	4473.2	4119.0	4016.7	4046.6	4119.0	4183.8
9622.6	22.5°	9290.8	8537.3	6282.0	4715.2	4136.4	3936.9	3931.9	3994.2	4034.2	4066.6
9874.6	25°	9365.6	8330.3	5623.4	4311.1	3859.5	3827.1	3882.0	3862.0	3834.6	3862.0
10126.6	27.5°	9420.5	8003.4	5034.6	3956.8	3664.9	3752.2	3719.8	3674.9	3672.4	3687.4
10423.4	30°	9403.1	7566.9	4550.6	3620.0	3527.7	3612.5	3535.2	3527.7	3520.2	3527.7
10870.0	32.5°	9403.1	7070.4	4178.9	3388.0	3440.4	3408.0	3400.5	3383.0	3353.1	3350.6
11476.3	35°	9455.4	6573.9	3859.5	3263.3	3368.0	3290.7	3295.7	3253.3	3190.9	3161.0
12279.6	37.5°	9562.7	6174.7	3542.7	3203.4	3240.8	3238.3	3218.3	3146.0	3036.2	2941.4
13282.5	40°	9822.2	6057.5	3325.6	3175.9	3180.9	3210.9	3158.5	3018.8	2769.3	2614.6
14300.4	42.5°	10228.8	6254.6	3278.2	3108.6	3141.0	3170.9	3068.7	2744.3	2567.2	2474.9
15368.2	45°	10745.3	6598.9	3380.5	3011.3	3046.2	3098.6	2794.2	2639.5	2559.7	2562.2
16426.0	47.5°	11398.9	6960.6	3570.1	2926.4	2909.0	2938.9	2612.1	2517.3	2407.5	2435.0
17441.4	50°	12154.9	7327.3	3749.7	2811.7	2756.8	2659.5	2494.8	2405.0	2265.3	2200.4
18421.9	52.5°	12973.2	7681.6	3822.1	2672.0	2592.1	2479.9	2415.0	2305.2	2135.6	2028.3
19347.5	55°	13749.1	8003.4	3742.3	2504.8	2427.5	2340.2	2330.2	2262.8	2080.7	1931.0
20170.8	57.5°	14482.5	8272.9	3542.7	2335.2	2260.3	2207.9	2275.3	2242.9	2013.3	1821.2
20949.2	60°	15103.8	8457.5	3253.3	2163.0	2110.6	2083.2	2185.5	2175.5	1918.5	1704.0
21647.7	62.5°	15597.7	8529.9	2933.9	1998.4	1985.9	1936.0	2060.7	2060.7	1798.8	1589.2
22261.5	65°	15984.4	8460.0	2609.6	1836.2	1861.2	1786.3	1908.6	1893.6	1671.5	1486.9
22967.5	67.5°	16326.2	8230.5	2250.3	1676.5	1733.9	1639.1	1748.9	1714.0	1531.8	1384.6
23578.7	70°	16478.4	7696.6	1841.2	1516.9	1586.7	1494.4	1589.2	1524.3	1374.7	1274.9
22907.6	72.5°	15255.9	6396.8	1449.5	1349.7	1409.6	1334.7	1417.1	1342.2	1205.0	1160.1
19781.6	75°	12621.4	4800.1	1115.2	1167.6	1212.5	1155.1	1210.0	1155.1	1030.4	1062.8
14612.3	77.5°	9166.0	3240.8	853.2	975.5	995.4	965.5	1012.9	950.5	838.3	830.8
7282.4	80°	4558.1	1898.6	668.6	770.9	763.4	743.5	798.3	768.4	673.6	713.5
1965.9	82.5°	1319.8	813.3	486.5	541.4	526.4	531.4	571.3	586.3	878.2	870.7
611.2	85°	414.1	319.3	291.9	301.9	286.9	294.4	336.8	668.6	618.7	361.8
189.6	87.5°	107.3	109.8	72.4	77.3	79.8	94.8	107.3	406.7	194.6	127.2
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>
8512.4
8105.7
7232.5
6027.5
5092.0
4657.9
4346.0
4238.7
4206.3
4084.1
3879.5
3712.3
3555.1
3383.0
3190.9
2973.8
2634.6
2474.9
2574.7
2504.8
2217.9
2025.8
1931.0
1811.3
1696.5
1581.7
1476.9
1374.7
1254.9
1122.7
970.5
793.4
706.0
890.7
391.7
134.7
0.0

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