

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: P943965

Luminaire Tested: **GALN-SB8C-940-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943965  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8C-940-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43481 lumens  
Efficiency: N/A  
Efficacy: 108.8 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

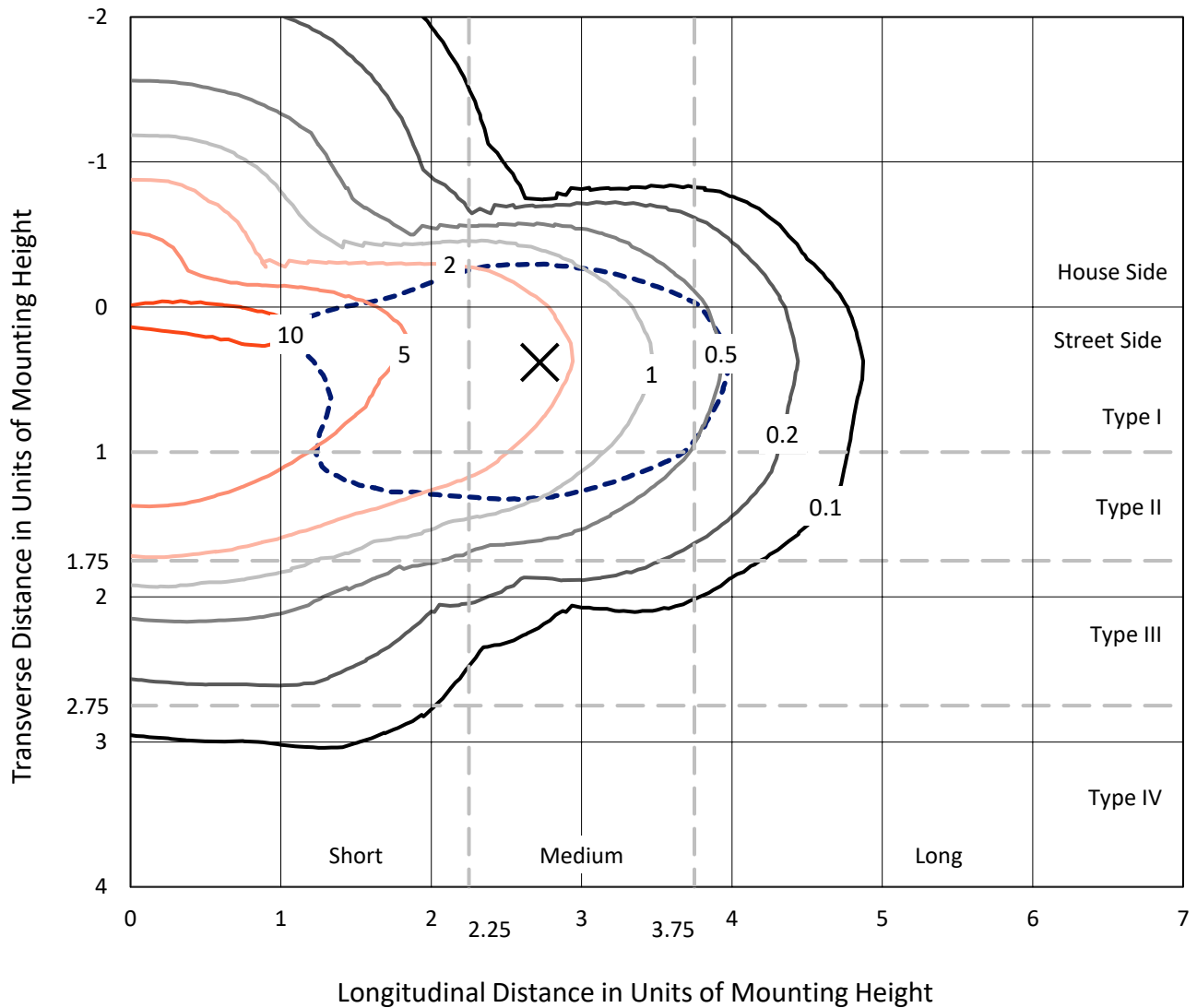
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P943965  
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### Iso-Footcandle Lines of Horizontal Illumination

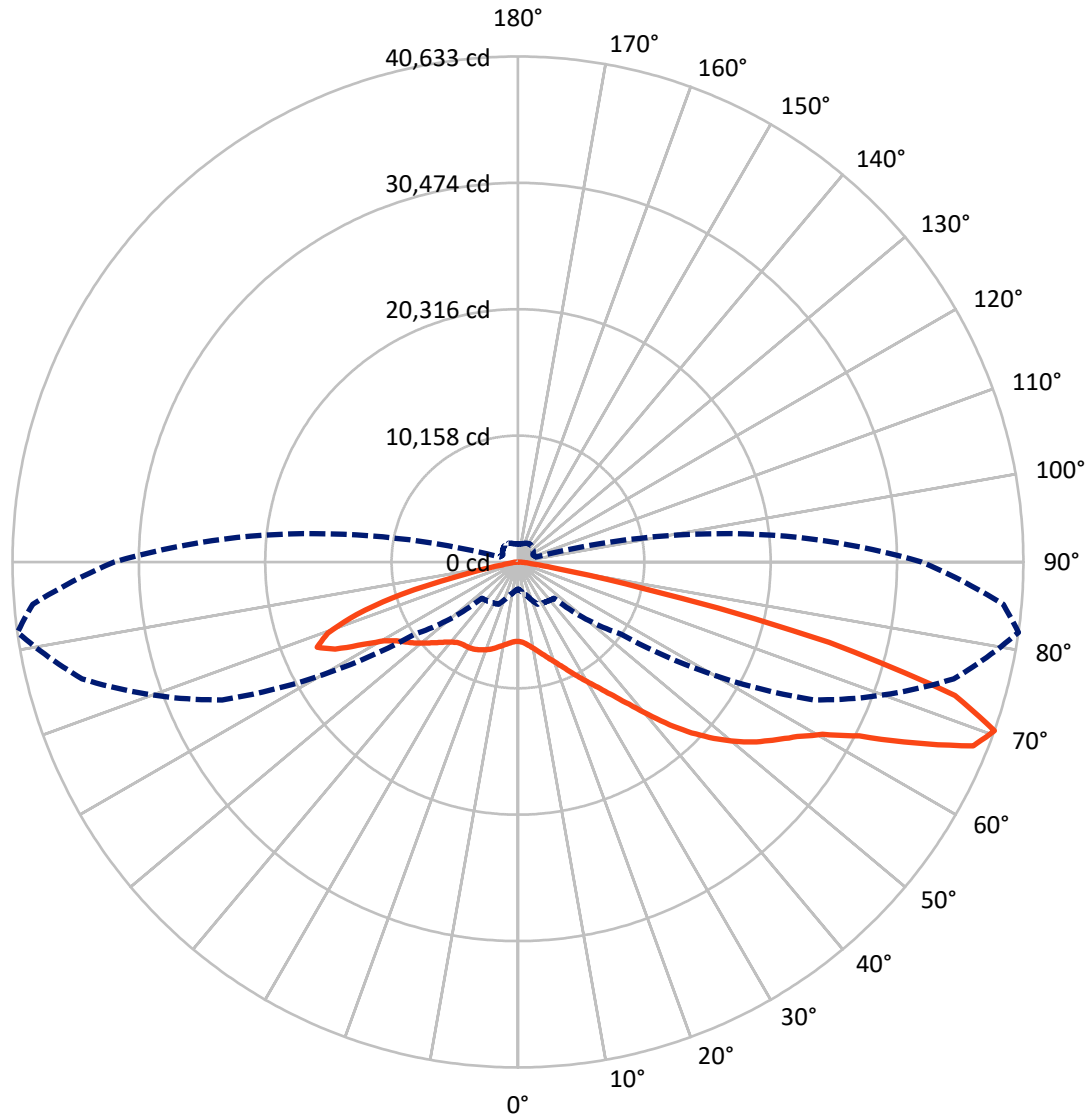
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type II - Medium - N/A

REPORT NUMBER: P943965  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10719.1	0.0	10719.1
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	32761.9	0.0	32761.9
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	43481.0	0.0	43481.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	601.9	1.4
10°-20°	1729.3	4.0
20°-30°	2892.9	6.7
30°-40°	4519.5	10.4
40°-50°	7197.8	16.6
50°-60°	10016.7	23.0
60°-70°	10477.9	24.1
70°-80°	5476.3	12.6
80°-90°	568.7	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°	43481.0	100.0
0°-180°	43481.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P943965

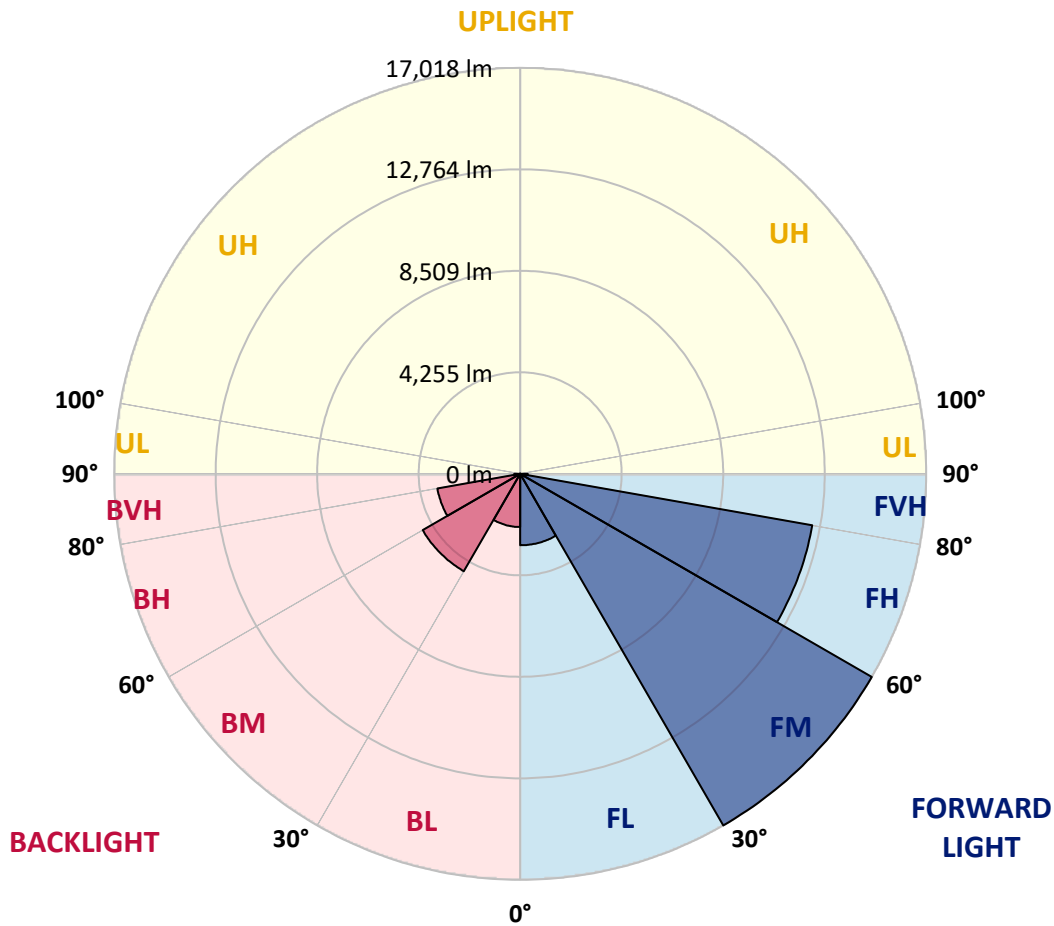
CATALOG NUMBER: GALN-SB8C-940-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2994.1	6.9			
FM (30°-60°)	17018.0	39.1			
FH (60°-80°)	12431.4	28.6			G5
FVH (80°-90°)	318.3	0.7			G3/500
BL (0°-30°)	2230.0	5.1	B3/2500		
BM (30°-60°)	4716.0	10.8	B3/5000		
BH (60°-80°)	3522.8	8.1	B4/5000		G4/5000
BVH (80°-90°)	250.3	0.6			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



REPORT NUMBER: P943965  
 CATALOG NUMBER: GALN-SB8C-940-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	6374.9	6374.9	6374.9	6374.9	6374.9	6374.9	6374.9	6374.9	6374.9	6374.9
2.5°	6527.1	6564.1	6552.5	6541.0	6541.0	6524.8	6522.5	6499.4	6481.0	6451.0
5°	6610.2	6649.4	6644.8	6654.0	6684.0	6690.9	6697.9	6684.0	6647.1	6610.2
7.5°	6536.4	6580.2	6594.0	6649.4	6741.7	6824.8	6887.1	6912.4	6877.8	6824.8
10°	6287.2	6335.6	6384.1	6515.6	6679.4	6875.5	7041.6	7140.9	7133.9	7083.2
12.5°	5781.9	5832.7	5936.5	6192.6	6492.5	6838.6	7147.8	7355.4	7427.0	7390.0
15°	5378.1	5422.0	5500.4	5763.4	6153.4	6679.4	7187.0	7590.8	7773.0	7752.3
17.5°	5366.6	5385.1	5433.5	5558.1	5858.0	6430.2	7145.5	7821.5	8169.9	8167.6
20°	5569.6	5576.6	5604.2	5629.6	5800.4	6241.0	7039.3	8013.0	8615.2	8615.2
22.5°	5851.1	5846.5	5874.2	5851.1	5934.2	6224.9	6972.4	8181.4	9111.2	9148.1
25°	6273.3	6250.3	6243.3	6190.3	6206.4	6374.9	7046.3	8372.9	9699.6	9775.7
27.5°	6836.3	6799.4	6774.0	6651.7	6610.2	6684.0	7272.4	8603.6	10354.8	10486.3
30°	7570.0	7503.1	7466.2	7253.9	7103.9	7115.5	7613.8	8910.5	11040.1	11252.3
32.5°	8571.3	8467.5	8368.3	8019.9	7745.3	7655.4	8054.5	9335.0	11783.0	12122.2
35°	9692.6	9609.6	9503.5	8965.9	8543.6	8336.0	8649.8	9928.0	12652.8	13190.4
37.5°	10772.4	10700.9	10751.7	10027.2	9482.7	9180.4	9429.6	10724.0	13725.7	14519.4
40°	11889.1	11833.7	11840.7	11148.5	10514.0	10174.9	10375.6	11723.0	14955.4	16099.8
42.5°	13102.7	13061.2	12922.8	12309.0	11596.1	11280.0	11464.6	12876.6	16275.2	17899.4
45°	14461.7	14436.3	14307.1	13603.4	12786.6	12431.3	12680.5	14150.2	17601.8	19592.9
47.5°	15636.1	15656.8	15640.7	15047.7	14201.0	13679.5	13977.2	15479.2	18836.2	21184.9
50°	16201.3	16309.8	16469.0	16284.4	15758.3	15227.7	15285.4	16762.0	20012.9	22677.7
52.5°	15906.0	16111.3	16545.1	16840.4	17043.5	16932.7	16778.1	18035.6	21120.3	24025.1
55°	14805.5	15093.9	15813.7	16526.6	17562.6	18367.8	18570.8	19447.6	22200.1	25211.0
57.5°	12800.5	13268.8	13914.9	15356.9	17101.1	19062.3	20661.2	21406.4	23344.5	26477.7
60°	9362.7	9990.3	10793.2	12938.9	15486.1	18690.8	22440.1	24415.0	24971.1	28118.1
62.5°	5991.9	6379.5	7117.8	9138.9	12066.8	16787.4	22984.6	28175.8	27728.2	30808.4
65°	4102.2	4351.4	5027.4	6162.6	7800.7	12495.9	21526.4	30995.2	32107.3	35072.1
67.5°	2980.9	3170.1	3746.9	4741.3	5082.8	7394.7	16704.3	30866.0	36364.1	39465.1
70°	2173.4	2307.2	2791.7	3746.9	3910.7	4113.8	10119.5	26237.7	36271.9	40632.5
72.5°	1610.4	1702.7	2028.0	2907.1	3165.5	2777.9	5009.0	19069.2	31168.3	36751.8
75°	1165.1	1234.4	1474.3	2224.2	2533.3	2115.7	2498.7	11143.9	21741.0	25852.4
77.5°	890.6	943.7	1100.5	1628.9	2028.0	1587.4	1550.5	5126.7	10308.7	10359.4
80°	715.2	749.8	835.2	1146.7	1555.1	1188.2	1010.6	2069.6	3257.8	2757.1
82.5°	526.0	583.7	706.0	805.2	1112.1	819.1	616.0	1045.2	1239.0	1065.9
85°	299.9	339.2	426.8	576.8	710.6	500.7	353.0	463.8	576.8	473.0
87.5°	106.1	138.4	150.0	226.1	309.2	207.7	136.1	133.8	189.2	140.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943965  
 CATALOG NUMBER: GALN-SB8C-940-U-T2

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6374.9	0°	6374.9	6374.9	6374.9	6374.9	6374.9	6374.9	6374.9	6374.9	6374.9	6374.9
6444.1	2.5°	6421.0	6409.5	6363.3	6301.0	6236.4	6174.1	6153.4	6109.5	6079.5	6063.4
6594.0	5°	6550.2	6513.3	6404.9	6266.4	6121.1	5964.2	5853.4	5751.9	5678.1	5608.9
6799.4	7.5°	6734.8	6670.2	6483.3	6241.0	5982.6	5721.9	5528.1	5380.4	5281.2	5216.6
7039.3	10°	6949.4	6850.1	6564.1	6201.8	5802.7	5428.9	5200.5	5073.6	5011.3	4976.7
7313.9	12.5°	7196.2	7055.5	6647.1	6111.8	5528.1	5101.3	4944.4	4907.5	4909.8	4912.1
7660.0	15°	7500.8	7304.7	6714.0	5915.7	5170.5	4849.8	4822.1	4882.1	4944.4	4974.4
8052.2	17.5°	7844.6	7567.7	6725.6	5592.7	4819.8	4688.3	4776.0	4905.2	4999.8	5041.3
8490.6	20°	8213.7	7835.3	6642.5	5135.9	4531.4	4556.8	4713.7	4879.8	4983.6	5036.7
8991.2	22.5°	8635.9	8121.4	6444.1	4656.0	4296.1	4413.7	4598.3	4759.8	4868.2	4921.3
9579.6	25°	9118.1	8442.1	6132.6	4252.2	4093.0	4252.2	4436.8	4570.6	4658.3	4706.7
10237.2	27.5°	9653.4	8776.7	5717.3	3931.5	3915.4	4086.1	4238.4	4342.2	4388.3	4425.3
10936.2	30°	10191.0	9081.2	5214.3	3689.3	3760.8	3922.3	4030.7	4076.9	4090.7	4097.6
11716.1	32.5°	10772.4	9344.3	4686.0	3488.5	3613.1	3763.1	3827.7	3848.4	3783.8	3740.0
12662.0	35°	11476.1	9625.7	4169.2	3329.3	3467.8	3597.0	3617.7	3599.3	3523.1	3433.1
13848.0	37.5°	12346.0	9976.4	3756.2	3216.3	3331.6	3417.0	3391.6	3387.0	3393.9	3287.8
15273.8	40°	13411.9	10433.3	3453.9	3128.6	3220.9	3239.3	3167.8	3207.0	3241.6	3080.1
16838.1	42.5°	14595.5	10984.7	3262.4	3068.6	3128.6	3084.8	2974.0	3017.8	3013.2	2801.0
18409.3	45°	15802.2	11584.6	3195.5	3024.8	3043.2	2955.6	2833.3	2844.8	2747.9	2556.4
19916.0	47.5°	17001.9	12228.3	3237.0	2987.9	2937.1	2837.9	2743.3	2692.5	2549.5	2406.4
21360.3	50°	18178.6	12904.3	3389.3	2914.0	2791.7	2734.1	2664.8	2574.9	2422.6	2300.3
22726.2	52.5°	19269.9	13584.9	3560.0	2791.7	2609.5	2644.1	2600.2	2496.4	2346.4	2221.9
24018.2	55°	20303.6	14265.6	3627.0	2623.3	2438.7	2565.6	2540.3	2348.8	2168.8	2067.3
25370.2	57.5°	21429.5	15084.6	3553.1	2408.7	2300.3	2475.7	2378.7	2166.5	2062.7	1986.5
27130.6	60°	22989.2	16369.8	3393.9	2143.4	2168.8	2341.8	2175.7	2088.0	1975.0	1889.6
29770.1	62.5°	25580.2	18767.0	3137.8	1880.4	2014.2	2143.4	2078.8	1991.1	1875.8	1792.7
34283.0	65°	29410.2	22098.6	2655.6	1675.0	1841.2	1949.6	1975.0	1887.3	1767.3	1679.7
38237.6	67.5°	32640.3	24188.9	2009.6	1504.3	1663.5	1792.7	1864.2	1778.9	1652.0	1566.6
39162.8	70°	32462.6	22670.8	1534.3	1335.9	1506.6	1638.1	1730.4	1663.5	1527.4	1446.6
35572.8	72.5°	28833.4	18965.4	1241.3	1165.1	1347.4	1476.6	1587.4	1536.6	1398.2	1319.7
26060.1	75°	21182.6	13462.6	992.1	992.1	1149.0	1308.2	1430.5	1398.2	1271.3	1215.9
10940.9	77.5°	8929.0	5648.1	777.5	823.7	955.2	1123.6	1275.9	1287.4	1176.7	1245.9
2893.3	80°	2374.1	1557.4	593.0	648.3	749.8	927.5	1109.8	1105.2	985.2	920.6
1075.2	82.5°	904.4	613.7	422.2	456.8	542.2	710.6	879.1	906.7	786.8	680.6
422.2	85°	348.4	263.0	260.7	274.6	316.1	470.7	664.5	687.6	593.0	503.0
117.7	87.5°	90.0	78.4	96.9	92.3	145.4	251.5	380.7	394.5	362.2	210.0
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>
6374.9
6081.8
5636.5
5230.5
4985.9
4916.7
4972.1
5050.5
5050.5
4935.2
4720.6
4439.1
4113.8
3753.9
3437.8
3294.7
3084.8
2798.7
2563.3
2406.4
2291.1
2224.2
2058.0
1979.6
1885.0
1792.7
1684.3
1568.9
1453.6
1319.7
1199.8
1130.5
856.0
680.6
519.1
299.9
0.0

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