

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: P957156

Luminaire Tested: **GALN-SB9C-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-830-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61174 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

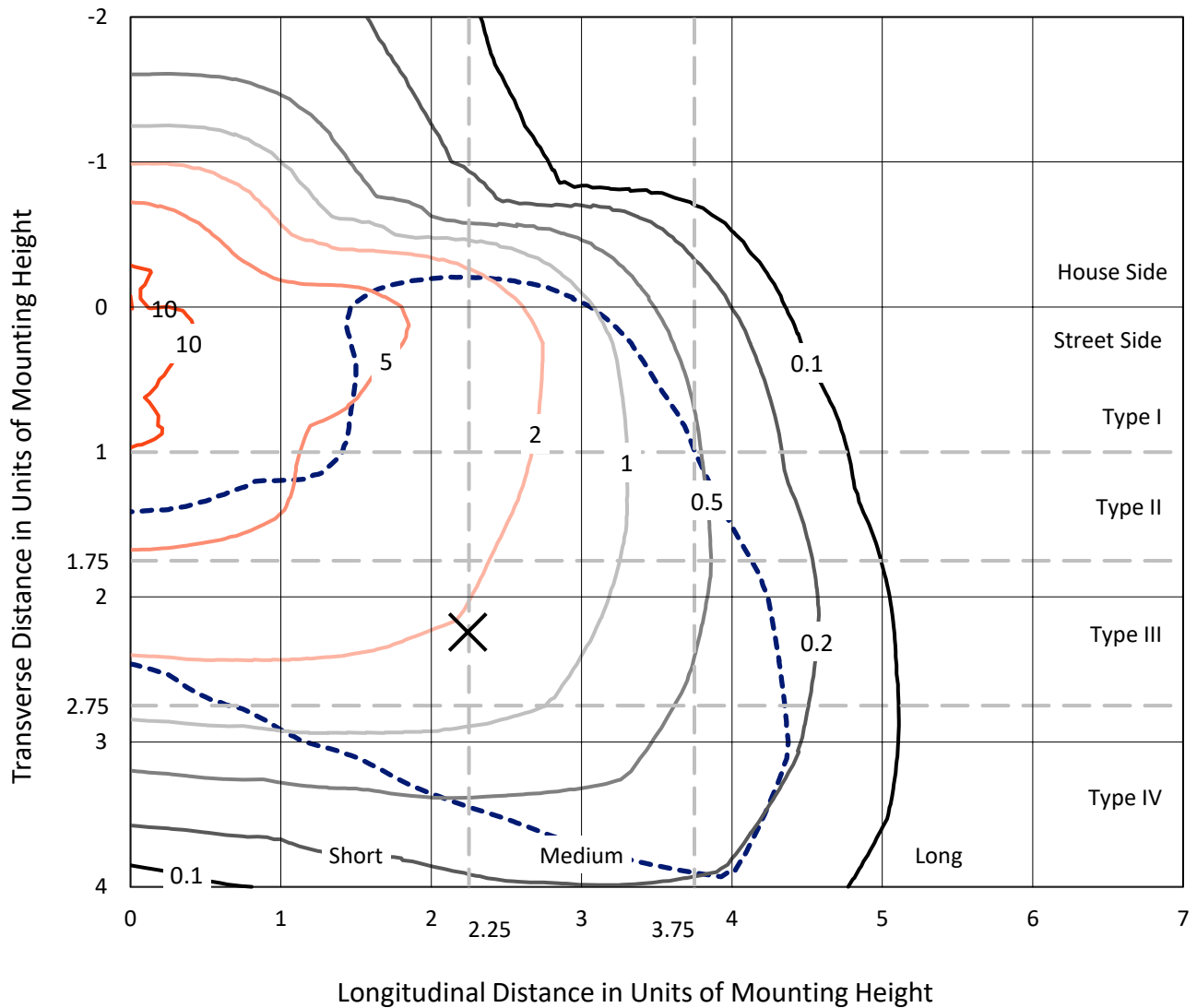
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

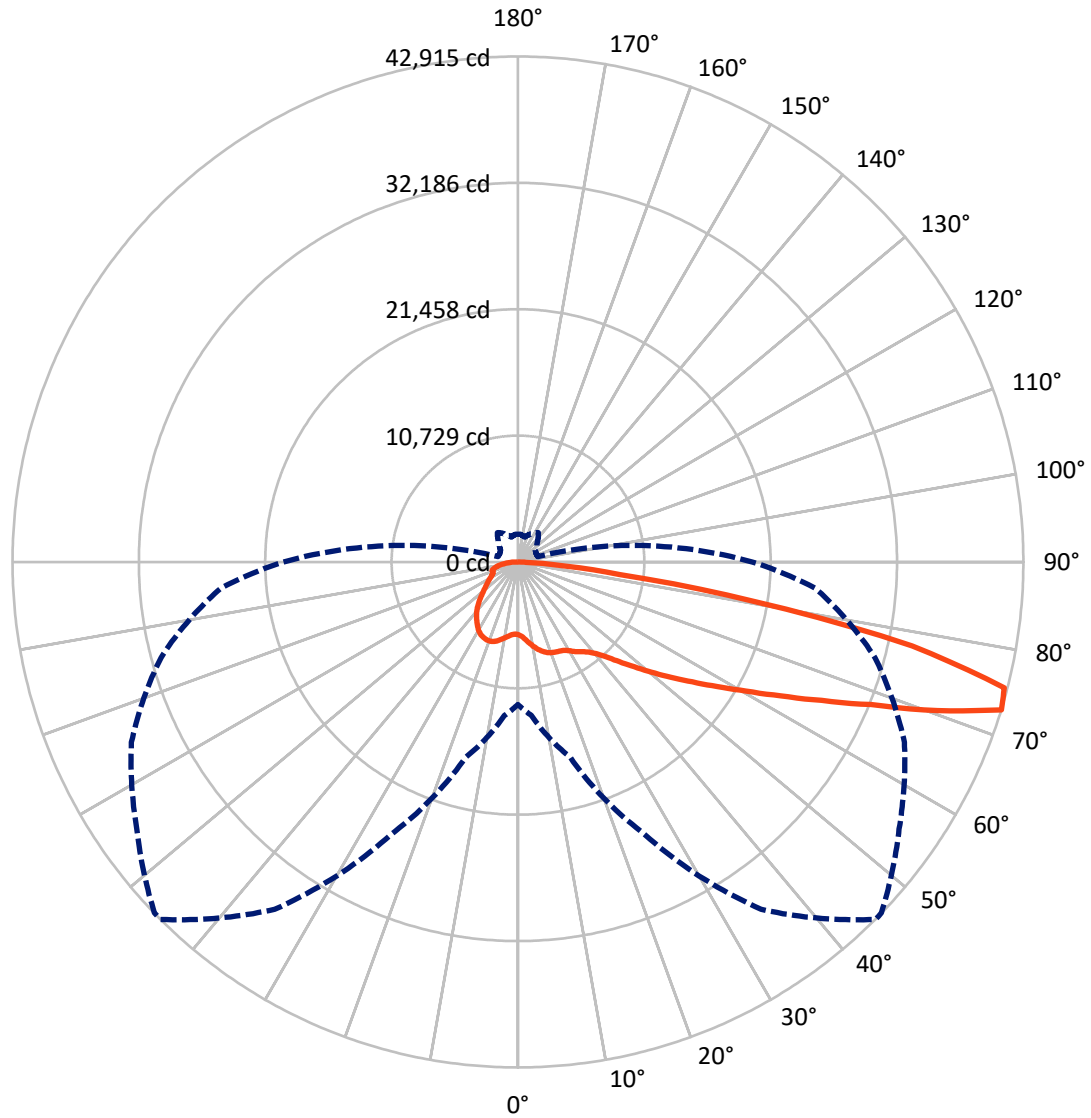
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13829.3	0.0	13829.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	47344.7	0.0	47344.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	61174.0	0.0	61174.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.1	1.0
10°-20°	2094.2	3.4
20°-30°	3643.0	6.0
30°-40°	5222.4	8.5
40°-50°	7353.5	12.0
50°-60°	11263.4	18.4
60°-70°	16316.7	26.7
70°-80°	13029.9	21.3
80°-90°	1622.8	2.7
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°	61174.0	100.0
0°-180°	61174.0	100.0



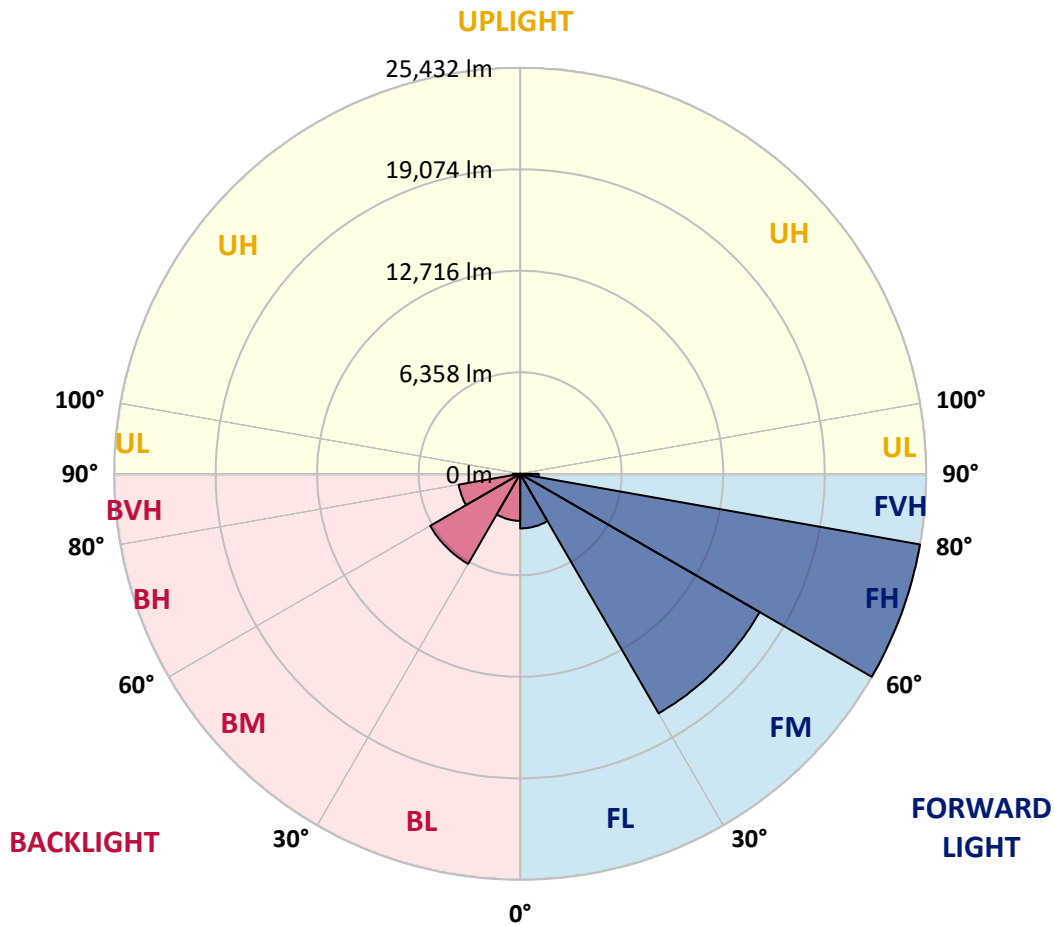
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3420.9	5.6			
FM (30°-60°)	17327.7	28.3			
FH (60°-80°)	25431.8	41.6			G5
FVH (80°-90°)	1164.2	1.9			G5
BL (0°-30°)	2944.4	4.8	B4/5000		
BM (30°-60°)	6511.7	10.6	B4/8500		
BH (60°-80°)	3914.7	6.4	B4/5000		G4/5000
BVH (80°-90°)	458.6	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	6171.3	6171.3	6171.3	6171.3	6171.3	6171.3	6171.3	6171.3	6171.3	6171.3
2.5°	6413.0	6454.9	6416.2	6380.7	6364.6	6322.7	6319.5	6293.7	6277.6	6232.5
5°	6860.9	6915.7	6851.2	6780.3	6715.9	6612.8	6599.9	6525.8	6442.0	6345.3
7.5°	7366.8	7415.2	7341.1	7234.7	7121.9	6951.1	6947.9	6812.6	6680.4	6516.1
10°	7808.3	7872.8	7772.9	7627.9	7486.1	7292.7	7270.2	7115.5	6947.9	6735.2
12.5°	8198.3	8243.4	8146.7	7969.5	7805.1	7611.8	7582.8	7412.0	7225.1	6983.4
15°	8507.6	8565.7	8436.7	8246.6	8072.6	7882.5	7856.7	7702.0	7515.1	7260.5
17.5°	8710.7	8759.0	8626.9	8414.2	8246.6	8088.7	8069.4	7940.5	7776.1	7518.3
20°	8788.0	8839.6	8701.0	8485.1	8330.4	8207.9	8198.3	8104.8	7992.0	7756.8
22.5°	8865.4	8913.7	8733.2	8507.6	8372.3	8295.0	8291.7	8230.5	8185.4	7992.0
25°	9177.9	9190.8	8949.1	8623.7	8430.3	8362.6	8359.4	8356.2	8375.5	8224.1
27.5°	9448.6	9445.4	9239.2	8933.0	8633.3	8491.5	8488.3	8520.5	8581.8	8456.1
30°	9845.0	9809.6	9564.7	9245.6	8971.7	8752.6	8733.2	8704.2	8752.6	8652.7
32.5°	10686.1	10573.3	10176.9	9609.8	9252.1	9084.5	9058.7	8878.2	8897.6	8836.4
35°	11891.4	11743.1	11214.6	10299.4	9600.1	9361.6	9348.7	9119.9	9081.3	9026.5
37.5°	13325.4	13141.7	12526.2	11298.4	10199.5	9683.9	9664.6	9458.3	9300.4	9242.4
40°	14765.9	14533.9	14024.7	12516.6	11082.5	10222.1	10160.8	9848.2	9667.8	9571.1
42.5°	16164.5	15971.2	15536.1	13882.9	12171.7	11008.4	10873.0	10338.1	10202.7	10112.5
45°	17402.0	17228.0	16908.9	15342.8	13447.9	12078.3	11946.2	11072.8	11030.9	11030.9
47.5°	18407.5	18368.8	18030.4	16831.6	14952.8	13296.4	13067.6	12094.4	12207.2	12381.2
50°	19522.5	19416.1	19055.2	18297.9	16722.0	14691.8	14504.9	13348.0	13770.1	14247.1
52.5°	20547.3	20605.3	20202.4	19825.4	18720.0	16248.3	15919.6	14827.2	15739.1	16528.7
55°	21601.0	21604.3	21491.5	21439.9	20814.7	17969.2	17608.2	16606.0	18056.2	19035.9
57.5°	22590.4	22596.8	22764.4	23218.8	23244.6	19954.3	19545.0	18790.9	20631.0	21630.0
60°	23473.4	23518.5	23976.1	25039.5	25381.1	22229.4	21842.7	21372.2	23292.9	24298.4
62.5°	23769.8	23934.2	24952.5	26463.9	27491.9	25020.2	24639.9	24359.6	26090.1	27024.7
65°	23267.1	23644.2	25613.2	27640.2	29664.0	28336.3	27959.2	27653.1	28996.9	29876.7
67.5°	22032.9	22519.5	25574.5	28874.4	32300.1	32325.8	31974.6	31255.9	32113.1	32451.5
70°	18781.3	19509.6	23321.9	29335.3	35326.1	37781.7	37443.3	35593.5	35222.9	33585.9
72.5°	12100.8	13080.5	17173.2	25542.3	35999.6	42915.3	42895.9	39509.0	36205.8	31381.6
75°	4415.0	5014.4	7979.1	16032.4	30218.3	42654.2	42779.9	38838.7	33050.9	24240.3
77.5°	1608.1	1759.5	2603.9	6161.6	18584.7	34223.9	34485.0	31049.7	23524.9	12165.3
80°	844.3	928.1	1334.2	2391.2	7963.0	20324.9	20734.2	18452.6	11056.7	3664.1
82.5°	467.3	505.9	747.6	1298.7	3586.7	8691.3	8936.3	7289.5	3889.7	1553.3
85°	251.4	267.5	351.3	709.0	1753.1	3013.1	3080.8	2178.5	1550.1	912.0
87.5°	74.1	90.2	116.0	225.6	686.4	676.7	692.9	431.8	612.3	460.8
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°
6171.3	0°	6171.3	6171.3	6171.3	6171.3	6171.3	6171.3	6171.3	6171.3	6171.3	6171.3
6219.6	2.5°	6200.3	6190.6	6155.2	6139.0	6119.7	6116.5	6132.6	6135.8	6139.0	6142.3
6290.5	5°	6258.3	6226.1	6193.8	6174.5	6180.9	6184.2	6216.4	6238.9	6255.1	6267.9
6422.6	7.5°	6371.1	6345.3	6290.5	6287.3	6296.9	6326.0	6367.8	6419.4	6448.4	6471.0
6593.4	10°	6538.6	6490.3	6425.9	6435.5	6454.9	6496.7	6583.8	6625.7	6674.0	6715.9
6802.9	12.5°	6709.4	6667.5	6593.4	6599.9	6632.1	6706.2	6790.0	6841.6	6873.8	6906.0
7028.5	15°	6931.8	6857.7	6777.1	6777.1	6835.1	6915.7	6954.4	6996.2	7015.6	7051.0
7270.2	17.5°	7160.6	7063.9	6957.6	6951.1	7022.0	7060.7	7083.3	7089.7	7096.2	7134.8
7505.4	20°	7389.4	7283.1	7131.6	7118.7	7134.8	7128.4	7125.2	7118.7	7128.4	7176.7
7747.1	22.5°	7615.0	7492.5	7283.1	7225.1	7179.9	7118.7	7115.5	7112.3	7118.7	7167.0
8008.1	25°	7879.2	7731.0	7450.6	7276.6	7125.2	7041.4	7051.0	7054.3	7060.7	7099.4
8278.8	27.5°	8166.1	8001.7	7605.3	7260.5	6986.6	6928.6	6912.5	6922.1	6944.7	7005.9
8549.5	30°	8452.9	8259.5	7747.1	7196.1	6812.6	6732.0	6680.4	6703.0	6773.9	6835.1
8784.8	32.5°	8713.9	8520.5	7859.9	7054.3	6590.2	6464.5	6396.8	6425.9	6496.7	6519.3
9045.8	35°	9020.0	8800.9	7908.2	6828.7	6348.5	6155.2	6064.9	6023.0	6058.5	6035.9
9352.0	37.5°	9361.6	9132.8	7901.8	6532.2	6064.9	5842.6	5716.9	5559.0	5484.9	5407.5
9803.1	40°	9867.6	9538.9	7824.5	6174.5	5713.7	5510.6	5285.1	5017.6	4850.0	4698.5
10531.4	42.5°	10557.2	10102.8	7682.7	5781.3	5317.3	5127.1	4821.0	4508.4	4244.2	3992.8
11636.8	45°	11585.2	10840.8	7505.4	5362.4	4888.7	4701.8	4369.8	4018.6	3718.9	3396.6
13206.2	47.5°	13067.6	11833.4	7337.8	4885.5	4437.5	4266.7	3967.0	3641.5	3287.0	2974.5
15474.9	50°	15104.3	13257.7	7183.2	4421.4	3992.8	3863.9	3625.4	3293.5	2935.8	2684.4
18133.5	52.5°	17695.3	15194.5	7118.7	3973.5	3577.1	3528.7	3338.6	3029.2	2690.9	2478.2
21233.7	55°	20669.7	17511.6	7118.7	3544.9	3212.9	3229.0	3096.9	2810.1	2516.8	2326.7
24430.5	57.5°	23705.4	19857.6	6989.8	3148.5	2903.6	2971.2	2887.4	2636.1	2371.8	2175.3
27791.6	60°	26502.6	21823.4	6467.7	2787.5	2629.6	2736.0	2681.2	2465.3	2143.0	1978.7
30601.7	62.5°	28652.1	22932.0	5462.3	2500.7	2404.1	2526.5	2497.5	2239.7	2101.1	2033.5
32909.1	65°	29728.4	22751.5	4176.5	2246.1	2213.9	2404.1	2342.8	2333.2	2223.6	2146.2
33660.0	67.5°	29067.8	21198.2	3029.2	2059.2	2104.4	2291.3	2526.5	2565.2	2362.2	2210.7
31546.0	70°	26170.7	18388.1	2255.8	1882.0	1965.8	2294.5	2881.0	2684.4	2317.0	2139.8
25300.6	72.5°	19909.2	13712.1	1749.9	1695.1	1785.3	2310.6	3038.9	2629.6	2188.1	2365.4
15761.7	75°	11385.4	7528.0	1405.1	1466.3	1559.7	2159.1	2958.3	2487.8	2088.2	2172.0
6245.4	77.5°	4340.8	2893.9	1160.1	1240.7	1253.6	1885.2	2829.4	2478.2	1988.3	1940.0
1872.3	80°	1505.0	1131.1	960.3	986.1	970.0	1675.7	2713.4	2155.9	1627.4	1456.6
773.4	82.5°	615.5	564.0	760.5	728.3	689.6	1301.9	2191.4	1762.8	1330.9	1176.2
373.8	85°	267.5	357.7	502.7	441.5	399.6	902.3	1756.3	1492.1	1124.7	970.0
122.5	87.5°	54.8	135.3	212.7	199.8	206.2	602.6	1247.1	1060.2	796.0	596.2
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>
6171.3
6155.2
6274.4
6477.4
6706.2
6918.9
7063.9
7147.7
7196.1
7199.3
7150.9
7067.1
6902.8
6599.9
6106.8
5455.9
4708.2
3970.2
3357.9
2939.0
2668.3
2462.1
2307.4
2143.0
1952.9
2010.9
2120.5
2184.9
2110.8
2346.0
2172.0
1769.2
1408.3
1163.4
966.8
467.3
0.0

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