

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: P943895

Luminaire Tested: **GALN-SB8C-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943895
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-830-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53916 lumens
Efficiency: N/A
Efficacy: 134.9 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

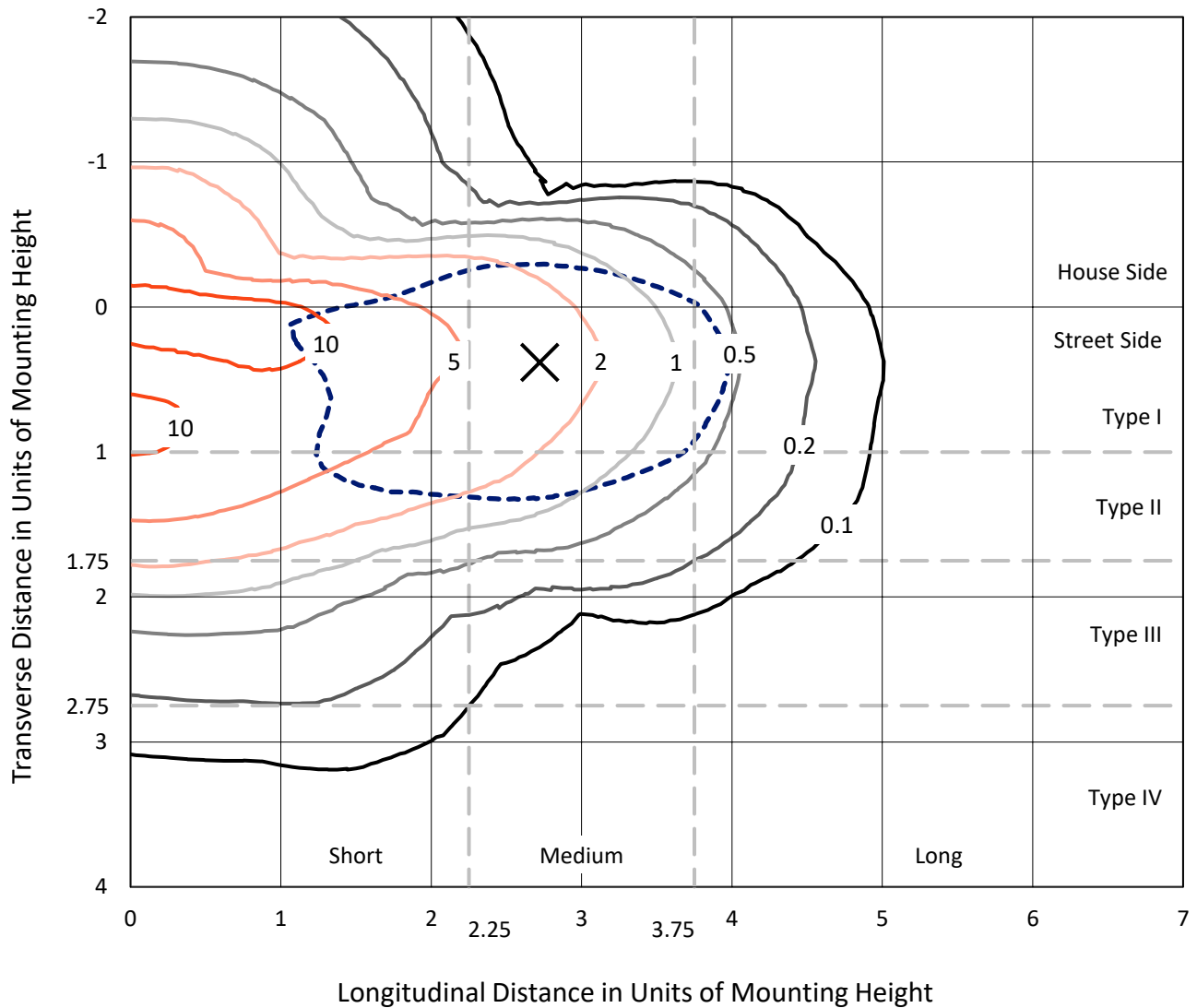
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943895
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Iso-Footcandle Lines of Horizontal Illumination

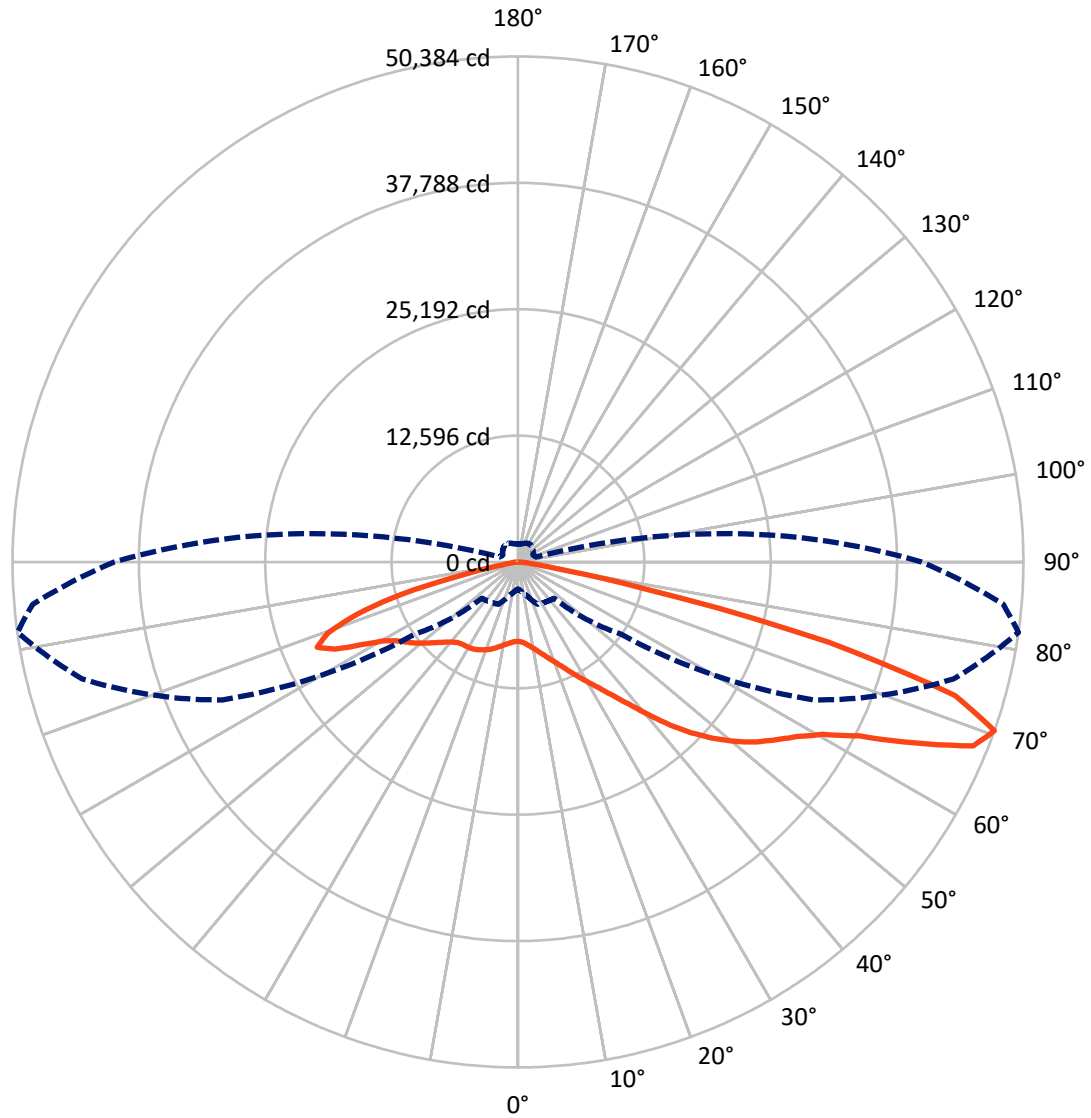
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type II - Medium - N/A

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CATALOG NUMBER: GALN-SB8C-830-U-T2

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
House Side	Lumens	13291.6	0.0	13291.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	40624.4	0.0	40624.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	53916.0	0.0	53916.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	746.3	1.4
10°-20°	2144.3	4.0
20°-30°	3587.2	6.7
30°-40°	5604.1	10.4
40°-50°	8925.2	16.6
50°-60°	12420.6	23.0
60°-70°	12992.5	24.1
70°-80°	6790.6	12.6
80°-90°	705.1	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°	53916.0	100.0
0°-180°	53916.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943895

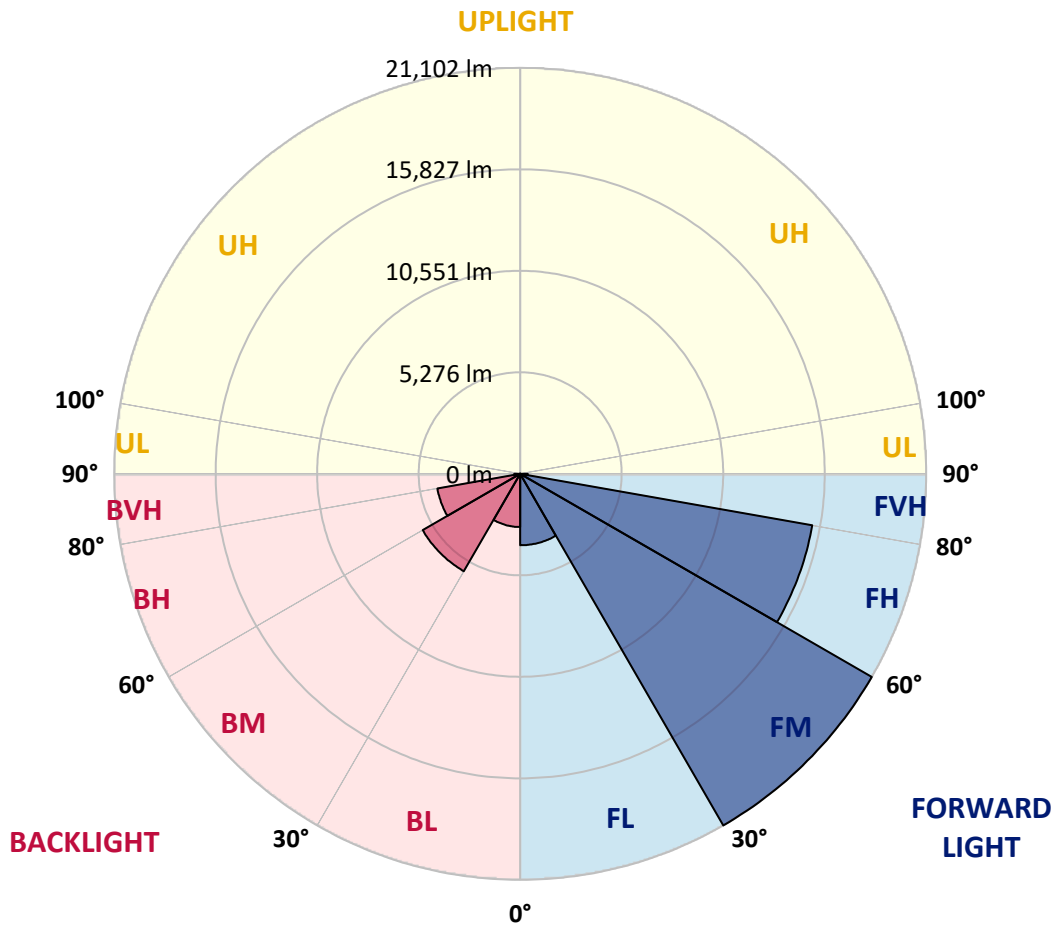
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3712.7	6.9			
FM (30°-60°)	21102.2	39.1			
FH (60°-80°)	15414.8	28.6			G5
FVH (80°-90°)	394.7	0.7			G3/500
BL (0°-30°)	2765.1	5.1	B4/5000		
BM (30°-60°)	5847.8	10.8	B4/8500		
BH (60°-80°)	4368.3	8.1	B4/5000		G4/5000
BVH (80°-90°)	310.4	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: P943895
 CATALOG NUMBER: GALN-SB8C-830-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	7904.8	7904.8	7904.8	7904.8	7904.8	7904.8	7904.8	7904.8	7904.8	7904.8
2.5°	8093.6	8139.4	8125.1	8110.7	8110.7	8090.7	8087.9	8059.3	8036.4	7999.2
5°	8196.6	8245.2	8239.5	8250.9	8288.1	8296.7	8305.3	8288.1	8242.3	8196.6
7.5°	8105.0	8159.4	8176.5	8245.2	8359.6	8462.6	8539.9	8571.4	8528.4	8462.6
10°	7796.0	7856.1	7916.2	8079.3	8282.4	8525.6	8731.6	8854.6	8846.0	8783.1
12.5°	7169.5	7232.4	7361.2	7678.7	8050.7	8479.8	8863.2	9120.7	9209.3	9163.6
15°	6668.8	6723.2	6820.5	7146.6	7630.1	8282.4	8911.8	9412.5	9638.5	9612.7
17.5°	6654.5	6677.4	6737.5	6892.0	7263.9	7973.4	8860.3	9698.6	10130.6	10127.7
20°	6906.3	6914.9	6949.2	6980.7	7192.4	7738.8	8728.7	9936.0	10682.7	10682.7
22.5°	7255.3	7249.6	7283.9	7255.3	7358.3	7718.8	8645.7	10144.9	11297.8	11343.6
25°	7778.9	7750.3	7741.7	7675.9	7695.9	7904.8	8737.3	10382.3	12027.4	12121.8
27.5°	8476.9	8431.2	8399.7	8248.1	8196.6	8288.1	9017.7	10668.4	12839.9	13002.9
30°	9386.7	9303.8	9258.0	8994.8	8808.8	8823.1	9441.1	11048.9	13689.6	13952.8
32.5°	10628.4	10499.6	10376.6	9944.6	9604.2	9492.6	9987.5	11575.3	14610.8	15031.3
35°	12018.8	11915.8	11784.2	11117.6	10594.0	10336.6	10725.6	12310.6	15689.4	16356.0
37.5°	13357.7	13269.0	13332.0	12433.6	11758.4	11383.7	11692.6	13297.6	17019.7	18003.9
40°	14742.4	14673.7	14682.3	13824.0	13037.3	12616.7	12865.6	14536.4	18544.6	19963.6
42.5°	16247.2	16195.7	16024.1	15263.1	14379.1	13987.1	14216.0	15966.9	20181.0	22195.1
45°	17932.3	17900.9	17740.6	16868.1	15855.3	15414.7	15723.7	17546.1	21826.1	24295.0
47.5°	19388.5	19414.3	19394.3	18659.0	17609.0	16962.5	17331.5	19194.0	23356.7	26269.1
50°	20089.5	20223.9	20421.3	20192.5	19540.2	18882.2	18953.7	20784.7	24815.7	28120.1
52.5°	19723.3	19977.9	20515.8	20882.0	21133.7	20996.4	20804.7	22363.9	26189.0	29790.9
55°	18358.6	18716.2	19608.8	20492.9	21777.4	22775.9	23027.7	24114.8	27527.9	31261.4
57.5°	15872.5	16453.2	17254.3	19042.4	21205.2	23637.0	25619.7	26543.7	28946.9	32832.1
60°	11609.7	12387.8	13383.4	16044.1	19202.6	23176.4	27825.4	30274.4	30963.9	34866.2
62.5°	7429.8	7910.5	8826.0	11332.2	14962.7	20816.2	28500.6	34937.7	34382.7	38202.0
65°	5086.7	5395.7	6234.0	7641.6	9672.8	15494.8	26692.5	38433.8	39812.8	43489.1
67.5°	3696.3	3930.9	4646.2	5879.2	6302.6	9169.3	20713.2	38273.6	45091.2	48936.3
70°	2695.0	2860.9	3461.7	4646.2	4849.3	5101.0	12548.1	32534.5	44976.7	50383.9
72.5°	1996.9	2111.4	2514.8	3604.8	3925.2	3444.6	6211.1	23645.6	38648.4	45571.8
75°	1444.8	1530.6	1828.1	2757.9	3141.3	2623.5	3098.4	13818.3	26958.6	32056.8
77.5°	1104.3	1170.1	1364.7	2019.8	2514.8	1968.3	1922.5	6357.0	12782.7	12845.6
80°	886.9	929.8	1035.7	1421.9	1928.3	1473.4	1253.1	2566.3	4039.6	3418.8
82.5°	652.3	723.8	875.4	998.5	1379.0	1015.6	763.9	1296.0	1536.3	1321.8
85°	371.9	420.6	529.3	715.2	881.2	620.8	437.7	575.0	715.2	586.5
87.5°	131.6	171.7	186.0	280.4	383.4	257.5	168.8	165.9	234.6	174.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943895
 CATALOG NUMBER: GALN-SB8C-830-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7904.8	0°	7904.8	7904.8	7904.8	7904.8	7904.8	7904.8	7904.8	7904.8	7904.8	7904.8
7990.6	2.5°	7962.0	7947.7	7890.5	7813.2	7733.1	7655.9	7630.1	7575.8	7538.6	7518.5
8176.5	5°	8122.2	8076.4	7942.0	7770.3	7590.1	7395.5	7258.2	7132.3	7040.8	6954.9
8431.2	7.5°	8351.1	8271.0	8039.2	7738.8	7418.4	7095.1	6854.8	6671.7	6548.7	6468.6
8728.7	10°	8617.1	8494.1	8139.4	7690.2	7195.2	6731.8	6448.5	6291.2	6213.9	6171.0
9069.2	12.5°	8923.3	8748.7	8242.3	7578.6	6854.8	6325.5	6131.0	6085.2	6088.1	6090.9
9498.3	15°	9300.9	9057.7	8325.3	7335.4	6411.4	6013.7	5979.4	6053.7	6131.0	6168.2
9984.7	17.5°	9727.2	9383.9	8339.6	6934.9	5976.5	5813.4	5922.1	6082.3	6199.6	6251.1
10528.2	20°	10184.9	9715.7	8236.6	6368.4	5618.9	5650.3	5844.9	6050.9	6179.6	6245.4
11149.1	22.5°	10708.5	10070.5	7990.6	5773.4	5327.1	5473.0	5701.8	5902.1	6036.6	6102.4
11878.6	25°	11306.4	10468.2	7604.4	5272.7	5075.3	5272.7	5501.6	5667.5	5776.2	5836.3
12694.0	27.5°	11970.1	10883.0	7089.4	4875.0	4855.0	5066.7	5255.5	5384.3	5441.5	5487.3
13560.8	30°	12636.7	11260.6	6465.7	4574.6	4663.3	4863.6	4998.1	5055.3	5072.4	5081.0
14527.8	32.5°	13357.7	11586.8	5810.6	4325.7	4480.2	4666.2	4746.3	4772.0	4691.9	4637.6
15700.8	35°	14230.3	11935.8	5169.7	4128.3	4300.0	4460.2	4485.9	4463.1	4368.6	4257.1
17171.3	37.5°	15308.9	12370.7	4657.6	3988.1	4131.2	4237.0	4205.6	4199.9	4208.4	4076.8
18939.4	40°	16630.6	12937.1	4282.8	3879.4	3993.9	4016.8	3928.1	3976.7	4019.6	3819.3
20879.1	42.5°	18098.3	13620.9	4045.4	3805.0	3879.4	3825.1	3687.7	3742.1	3736.4	3473.2
22827.4	45°	19594.5	14364.7	3962.4	3750.7	3773.6	3664.9	3513.2	3527.5	3407.4	3169.9
24695.6	47.5°	21082.2	15162.9	4013.9	3704.9	3642.0	3518.9	3401.7	3338.7	3161.3	2984.0
26486.5	50°	22541.3	16001.2	4202.7	3613.4	3461.7	3390.2	3304.4	3192.8	3004.0	2852.4
28180.2	52.5°	23894.5	16845.2	4414.4	3461.7	3235.7	3278.6	3224.3	3095.5	2909.6	2755.1
29782.3	55°	25176.2	17689.2	4497.4	3252.9	3024.0	3181.4	3149.9	2912.4	2689.3	2563.4
31458.8	57.5°	26572.4	18704.8	4405.8	2986.8	2852.4	3069.8	2949.6	2686.4	2557.7	2463.3
33641.7	60°	28506.3	20298.3	4208.4	2657.8	2689.3	2903.8	2697.9	2589.1	2449.0	2343.1
36914.6	62.5°	31719.2	23270.8	3890.9	2331.7	2497.6	2657.8	2577.7	2469.0	2325.9	2222.9
42510.6	65°	36468.3	27402.0	3292.9	2077.0	2283.0	2417.5	2449.0	2340.2	2191.5	2082.8
47414.3	67.5°	40473.6	29994.0	2491.9	1865.3	2062.7	2222.9	2311.6	2205.8	2048.4	1942.6
48561.5	70°	40253.3	28111.5	1902.5	1656.5	1868.2	2031.3	2145.7	2062.7	1893.9	1793.8
44109.9	72.5°	35753.1	23516.9	1539.2	1444.8	1670.8	1831.0	1968.3	1905.4	1733.7	1636.5
32314.2	75°	26266.2	16693.5	1230.2	1230.2	1424.7	1622.1	1773.8	1733.7	1576.4	1507.7
13566.5	77.5°	11071.8	7003.6	964.1	1021.4	1184.4	1393.3	1582.1	1596.4	1459.1	1544.9
3587.6	80°	2943.9	1931.1	735.3	803.9	929.8	1150.1	1376.1	1370.4	1221.6	1141.5
1333.2	82.5°	1121.5	761.0	523.6	566.5	672.3	881.2	1090.0	1124.3	975.6	844.0
523.6	85°	432.0	326.1	323.3	340.5	391.9	583.6	823.9	852.6	735.3	623.7
145.9	87.5°	111.6	97.3	120.2	114.4	180.2	311.8	472.1	489.2	449.2	260.3
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>
7904.8
7541.4
6989.3
6485.7
6182.5
6096.6
6165.3
6262.6
6262.6
6119.5
5853.5
5504.4
5101.0
4654.7
4262.8
4085.4
3825.1
3470.3
3178.5
2984.0
2840.9
2757.9
2552.0
2454.7
2337.4
2222.9
2088.5
1945.4
<i>1802.4</i>
1636.5
1487.7
1401.9
1061.4
844.0
643.7
371.9
0.0

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