

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: P955075

Luminaire Tested: **GALN-SB8A-850-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8A-850-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35618 lumens
Efficiency: N/A
Efficacy: 156.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

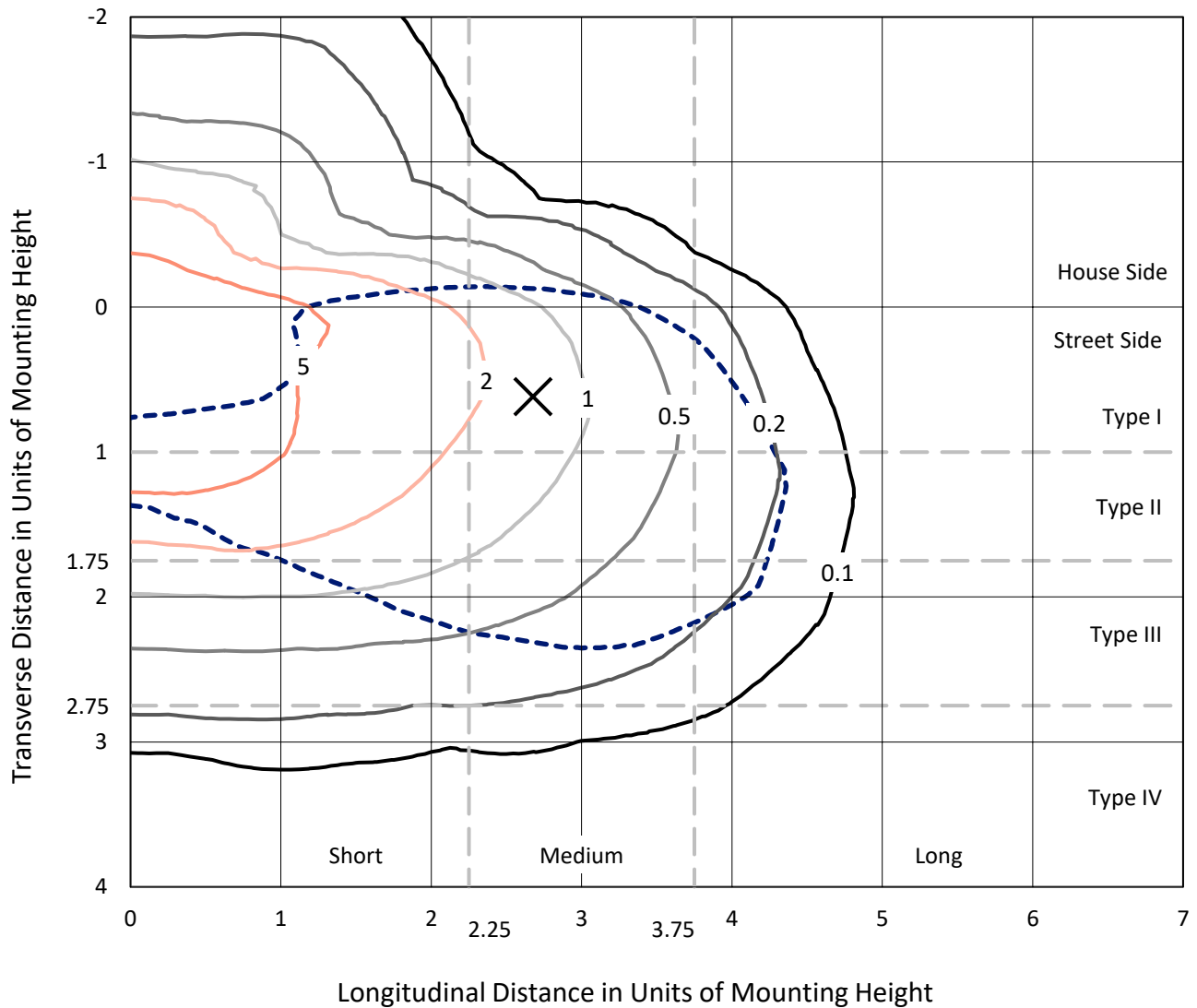
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

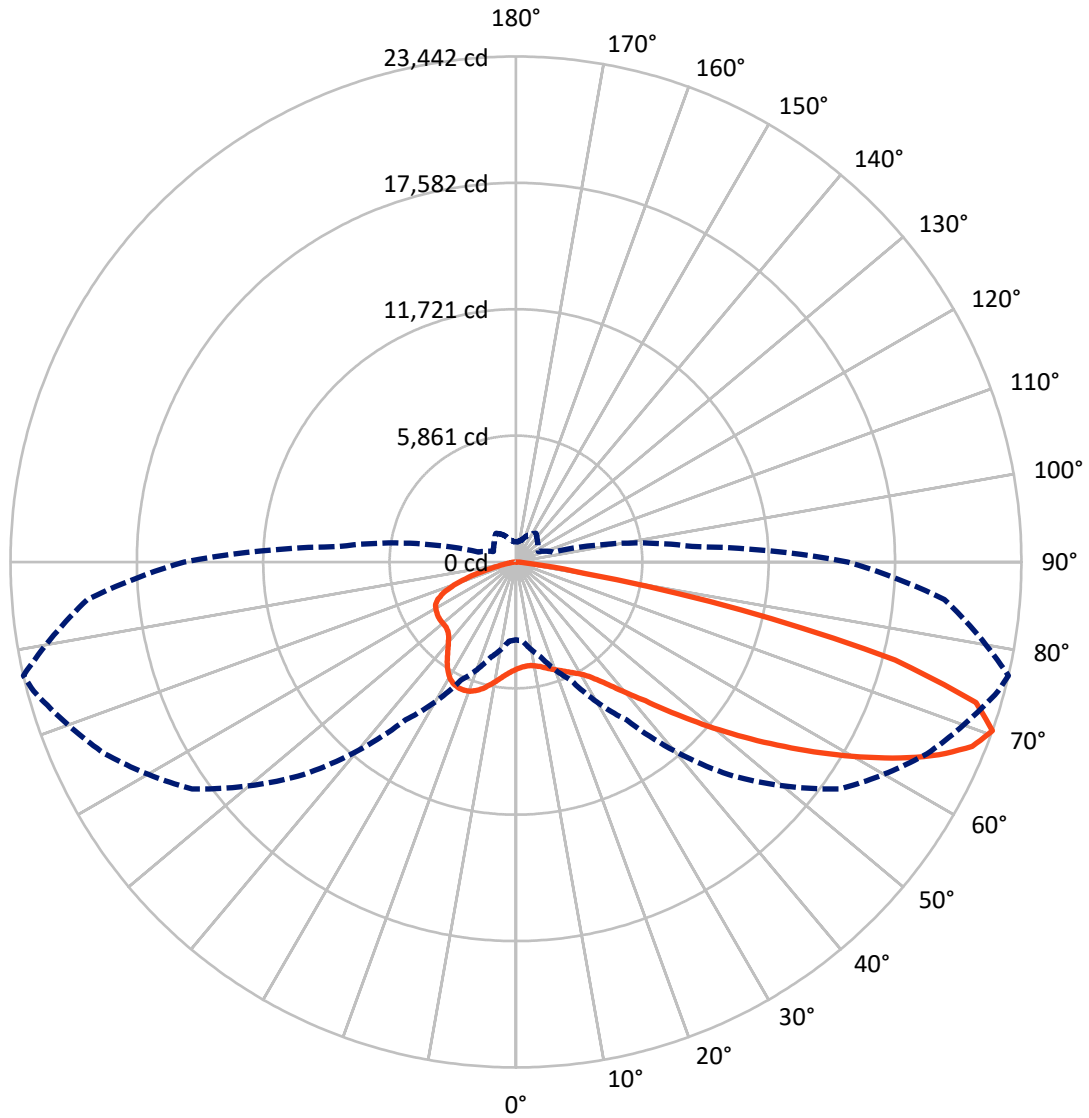
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7799.8	0.0	7799.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	27818.2	0.0	27818.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	35618.0	0.0	35618.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.9	1.3
10°-20°	1367.8	3.8
20°-30°	2339.1	6.6
30°-40°	3761.4	10.6
40°-50°	5872.6	16.5
50°-60°	7844.4	22.0
60°-70°	8360.9	23.5
70°-80°	5146.9	14.5
80°-90°	451.0	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°	35618.0	100.0
0°-180°	35618.0	100.0



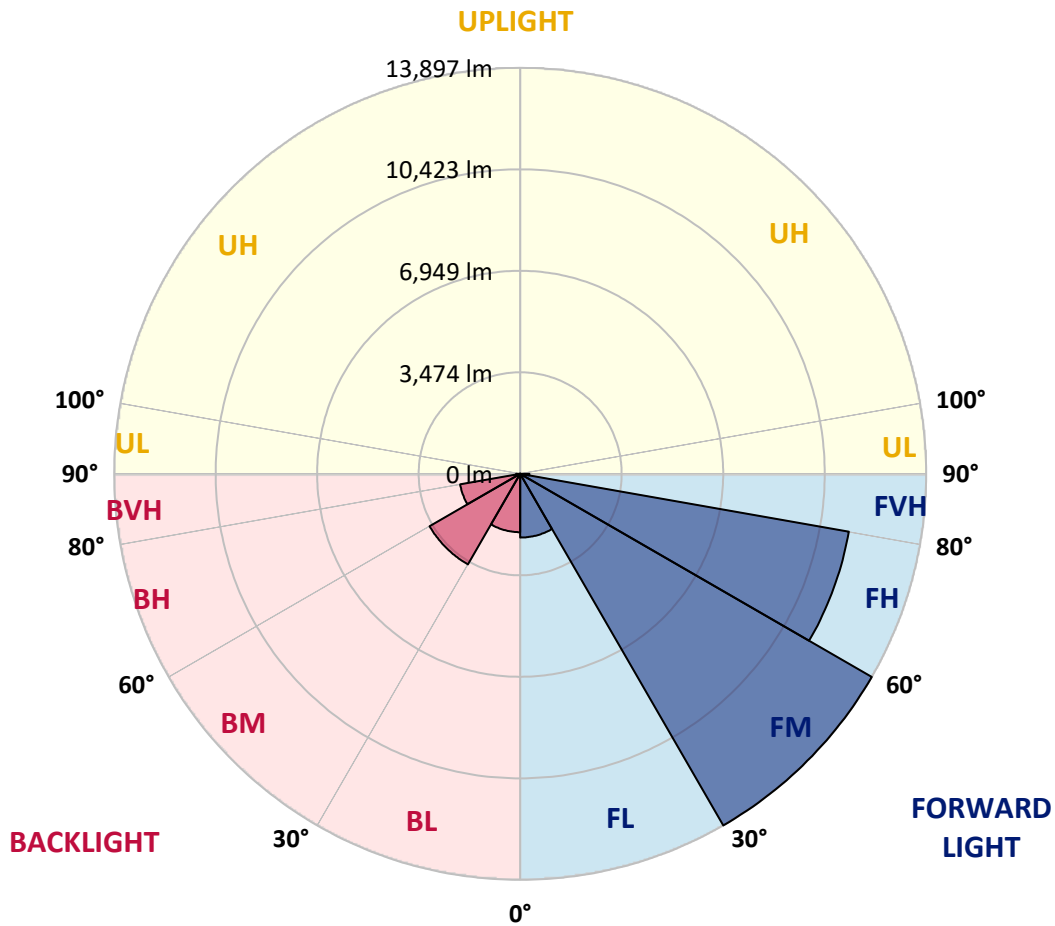
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2182.2	6.1			
FM (30°-60°)	13897.4	39.0			
FH (60°-80°)	11423.3	32.1			G4/12000
FVH (80°-90°)	315.4	0.9			G3/500
BL (0°-30°)	1998.6	5.6	B3/2500		
BM (30°-60°)	3581.1	10.1	B3/5000		
BH (60°-80°)	2084.5	5.9	B3/2500		G3/2500
BVH (80°-90°)	135.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4969.0	4969.0	4969.0	4969.0	4969.0	4969.0	4969.0	4969.0	4969.0	4969.0
2.5°	4580.5	4578.7	4602.4	4609.7	4653.5	4684.5	4742.8	4804.9	4885.1	4894.2
5°	4316.0	4316.0	4343.3	4372.5	4429.1	4491.1	4580.5	4688.1	4826.8	4848.6
7.5°	4091.6	4106.2	4129.9	4186.5	4252.1	4341.5	4478.3	4631.6	4814.0	4848.6
10°	3911.0	3927.4	3956.6	4002.2	4100.7	4224.8	4403.5	4600.6	4845.0	4899.7
12.5°	3854.5	3870.9	3887.3	3922.0	4013.2	4159.1	4372.5	4615.1	4919.8	4974.5
15°	3985.8	4005.9	3993.1	3984.0	4031.4	4164.6	4387.1	4668.0	5012.8	5091.3
17.5°	4288.6	4295.9	4266.7	4181.0	4173.7	4244.8	4456.4	4741.0	5129.6	5215.3
20°	4777.5	4764.7	4704.5	4534.9	4438.2	4423.6	4575.0	4850.5	5250.0	5341.2
22.5°	5441.5	5426.9	5306.5	5038.4	4823.1	4680.8	4746.5	4992.8	5384.9	5487.1
25°	6269.7	6249.6	6072.7	5707.8	5374.0	5021.9	4980.0	5180.6	5550.9	5645.8
27.5°	7236.5	7220.1	7028.5	6546.9	6065.4	5488.9	5270.0	5401.4	5724.2	5831.9
30°	8276.3	8323.7	7984.4	7466.3	6857.1	6098.2	5660.4	5673.2	5948.6	6045.3
32.5°	9498.4	9580.5	9171.9	8515.2	7683.4	6760.4	6152.9	6052.6	6275.1	6355.4
35°	10709.7	10802.7	10463.4	9737.4	8779.7	7541.1	6667.3	6488.6	6709.3	6796.9
37.5°	11756.8	11880.8	11705.7	11074.5	9952.7	8482.4	7338.6	7001.2	7243.8	7353.2
40°	12583.1	12772.8	12760.1	12366.0	11335.4	9624.3	8190.5	7634.1	7907.8	8026.3
42.5°	13254.4	13418.6	13560.9	13540.8	12778.3	10921.3	9192.0	8456.8	8664.8	8801.6
45°	13717.7	13892.9	14199.3	14529.5	14166.5	12309.5	10339.4	9432.8	9622.5	9828.6
47.5°	14131.8	14330.7	14728.3	15251.9	15344.9	13703.2	11596.2	10569.2	10742.5	10956.0
50°	14168.3	14339.8	14956.4	15698.8	16182.2	15042.1	12946.1	11844.3	12006.7	12234.7
52.5°	13287.2	13557.2	14633.5	15686.0	16567.1	16162.1	14286.9	13170.5	13352.9	13626.5
55°	10313.9	10709.7	13686.7	15197.2	16430.3	16886.3	15562.0	14580.6	14814.1	15100.5
57.5°	8883.7	9057.0	10864.7	14307.0	15806.4	17074.2	16638.2	16005.3	16381.0	16694.8
60°	7984.4	8128.5	9197.5	12922.4	14985.5	16776.9	17470.1	17333.3	17982.7	18356.6
62.5°	7021.2	7158.0	8130.3	10790.0	13934.8	16282.5	17995.4	18559.1	19624.4	20033.0
65°	6065.4	6182.1	7114.3	9066.1	12599.5	15788.2	18267.2	19618.9	21143.9	21567.1
67.5°	5000.0	5096.7	5977.8	7648.7	10976.0	15111.4	18402.2	20452.6	22466.5	22829.5
70°	3608.2	3683.0	4593.3	6048.9	8938.4	13947.6	18347.5	21043.6	23152.4	23442.4
72.5°	1705.6	1773.1	2842.1	3927.4	6313.4	11682.0	17240.2	20574.8	22455.5	22311.4
75°	910.3	968.6	1632.6	2154.3	3334.6	8008.1	14108.1	17723.6	18856.4	18156.0
77.5°	616.6	662.2	1010.6	1293.3	1523.2	3801.6	9067.9	12271.2	11806.0	10649.5
80°	488.9	536.3	828.2	875.6	737.0	1373.6	3746.8	5680.5	4080.7	3263.4
82.5°	375.8	428.7	696.8	634.8	401.3	563.7	1090.9	1796.8	1045.2	795.3
85°	229.8	286.4	547.3	405.0	226.2	257.2	370.3	499.8	319.2	266.3
87.5°	116.7	164.2	277.3	147.8	102.2	60.2	98.5	98.5	83.9	73.0
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°
4969.0	0°	4969.0	4969.0	4969.0	4969.0	4969.0	4969.0	4969.0	4969.0	4969.0	4969.0
4943.5	2.5°	4987.3	5023.8	5085.8	5144.2	5189.8	5233.5	5277.3	5301.0	5308.3	5337.5
4970.9	5°	5045.7	5113.1	5233.5	5346.6	5417.8	5461.6	5492.6	5510.8	5514.5	5523.6
5045.7	7.5°	5153.3	5260.9	5428.7	5541.8	5594.7	5591.1	5578.3	5532.7	5514.5	5498.0
5155.1	10°	5304.7	5447.0	5653.1	5731.5	5698.7	5611.1	5498.0	5364.9	5302.9	5242.7
5304.7	12.5°	5492.6	5673.2	5875.6	5872.0	5709.6	5485.3	5222.6	5018.3	4888.8	4795.7
5488.9	15°	5720.6	5928.5	6083.6	5959.6	5603.8	5200.7	4815.8	4549.5	4432.7	4330.6
5675.0	17.5°	5955.9	6178.5	6249.6	5932.2	5337.5	4779.3	4343.3	4133.6	4018.6	3963.9
5875.6	20°	6185.8	6406.5	6348.1	5775.3	4932.6	4301.4	3912.8	3797.9	3774.2	3787.0
6070.8	22.5°	6428.4	6625.4	6368.2	5472.5	4416.3	3812.5	3599.1	3602.7	3655.6	3693.9
6275.1	25°	6676.5	6809.6	6315.3	5034.7	3861.8	3453.2	3400.3	3458.6	3562.6	3637.4
6505.0	27.5°	6915.4	6973.8	6200.3	4492.9	3385.7	3195.9	3205.1	3325.5	3482.3	3586.3
6784.1	30°	7185.4	7119.7	5979.6	3883.7	3055.5	2975.2	3051.8	3192.3	3349.2	3442.2
7136.1	32.5°	7490.0	7245.6	5629.4	3320.0	2822.0	2798.3	2924.1	3015.4	3084.7	3112.0
7603.1	35°	7869.5	7422.5	5180.6	2924.1	2612.2	2668.8	2789.2	2743.5	2716.2	2701.6
8230.6	37.5°	8362.0	7661.5	4655.3	2666.9	2442.6	2575.7	2625.0	2482.7	2375.1	2322.2
8991.3	40°	8954.8	8011.7	4150.0	2468.1	2334.9	2495.5	2409.7	2238.3	2101.4	2026.7
9846.9	42.5°	9613.4	8378.4	3725.0	2318.5	2274.7	2429.8	2251.0	2046.7	1826.0	1802.3
10866.6	45°	10304.7	8756.0	3434.9	2203.6	2245.6	2373.2	2159.8	1829.6	1672.8	1769.4
11889.9	47.5°	10996.1	9102.6	3259.8	2117.9	2231.0	2309.4	2079.6	1709.2	1598.0	1738.4
12986.3	50°	11765.9	9412.7	3181.4	2055.8	2214.5	2283.9	1959.2	1678.2	1519.5	1612.6
14120.9	52.5°	12530.2	9653.5	3123.0	1993.8	2190.8	2263.8	1900.8	1641.8	1424.7	1430.1
15262.8	55°	13292.7	9810.4	3059.1	1911.7	2137.9	2220.0	1895.3	1601.6	1353.5	1328.0
16470.4	57.5°	14106.3	9899.8	2980.7	1820.5	2046.7	2108.7	1889.8	1570.6	1331.6	1289.7
17705.4	60°	14934.5	10031.1	2878.5	1709.2	1924.5	1975.6	1877.1	1559.7	1318.9	1247.7
18869.2	62.5°	15676.9	10076.7	2756.3	1603.4	1767.6	1844.2	1849.7	1550.5	1284.2	1162.0
19836.0	65°	16164.0	9879.7	2542.9	1483.0	1598.0	1709.2	1796.8	1519.5	1222.2	1100.0
20313.9	67.5°	16143.9	9317.9	2209.1	1328.0	1433.8	1559.7	1720.2	1466.6	1147.4	1023.4
19952.8	70°	15392.3	8208.8	1785.9	1147.4	1253.2	1399.1	1621.7	1388.2	1058.0	939.4
17741.9	72.5°	13201.5	6424.7	1297.0	935.8	1043.4	1233.1	1494.0	1293.3	966.8	864.7
13112.1	75°	9431.0	4066.1	879.2	718.7	811.8	1045.2	1335.3	1182.1	882.9	868.3
6567.0	77.5°	4817.6	1942.7	581.9	525.4	565.5	824.5	1121.9	1056.2	895.7	716.9
1867.9	80°	1567.0	716.9	366.7	357.5	375.8	549.1	868.3	866.5	678.6	487.1
452.4	82.5°	499.8	308.3	239.0	229.8	220.7	344.8	605.6	685.9	457.9	308.3
162.4	85°	198.8	184.2	140.5	129.5	93.0	162.4	317.4	456.0	341.1	222.5
42.0	87.5°	73.0	73.0	38.3	27.4	20.1	54.7	85.7	136.8	195.2	114.9
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>
4969.0
5353.9
5538.2
5501.7
5224.4
4773.8
4319.6
3980.3
3781.5
3703.1
3657.5
3611.9
3464.1
3126.6
2716.2
2334.9
2032.1
1826.0
1820.5
1804.1
1681.9
1468.5
1346.2
1295.2
1253.2
1162.0
1100.0
1028.8
950.4
859.2
819.1
638.5
430.5
306.5
228.0
113.1
0.0

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