

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: P943035

Luminaire Tested: **GALN-SB7B-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943035
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-SB7B-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34504 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

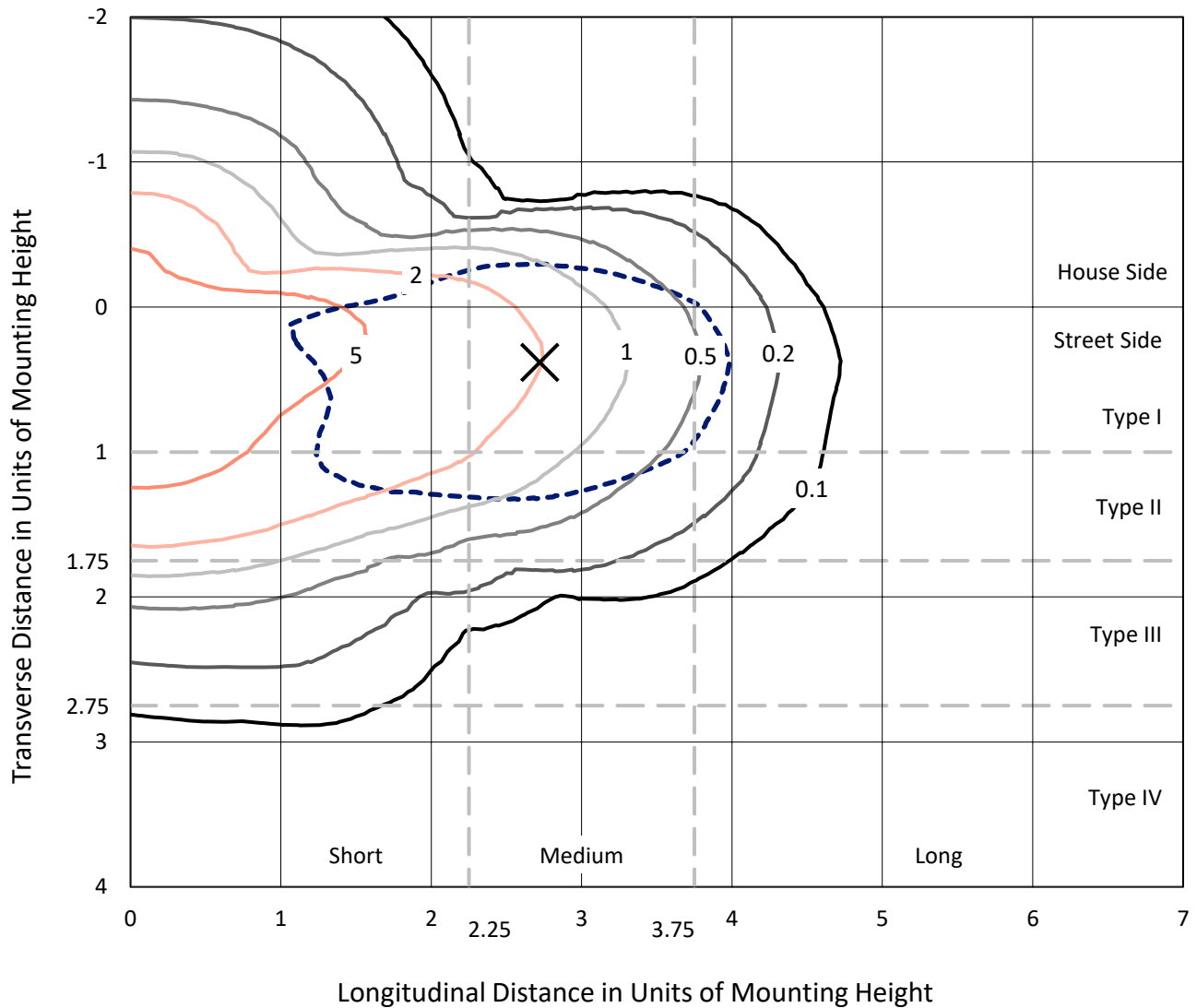
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

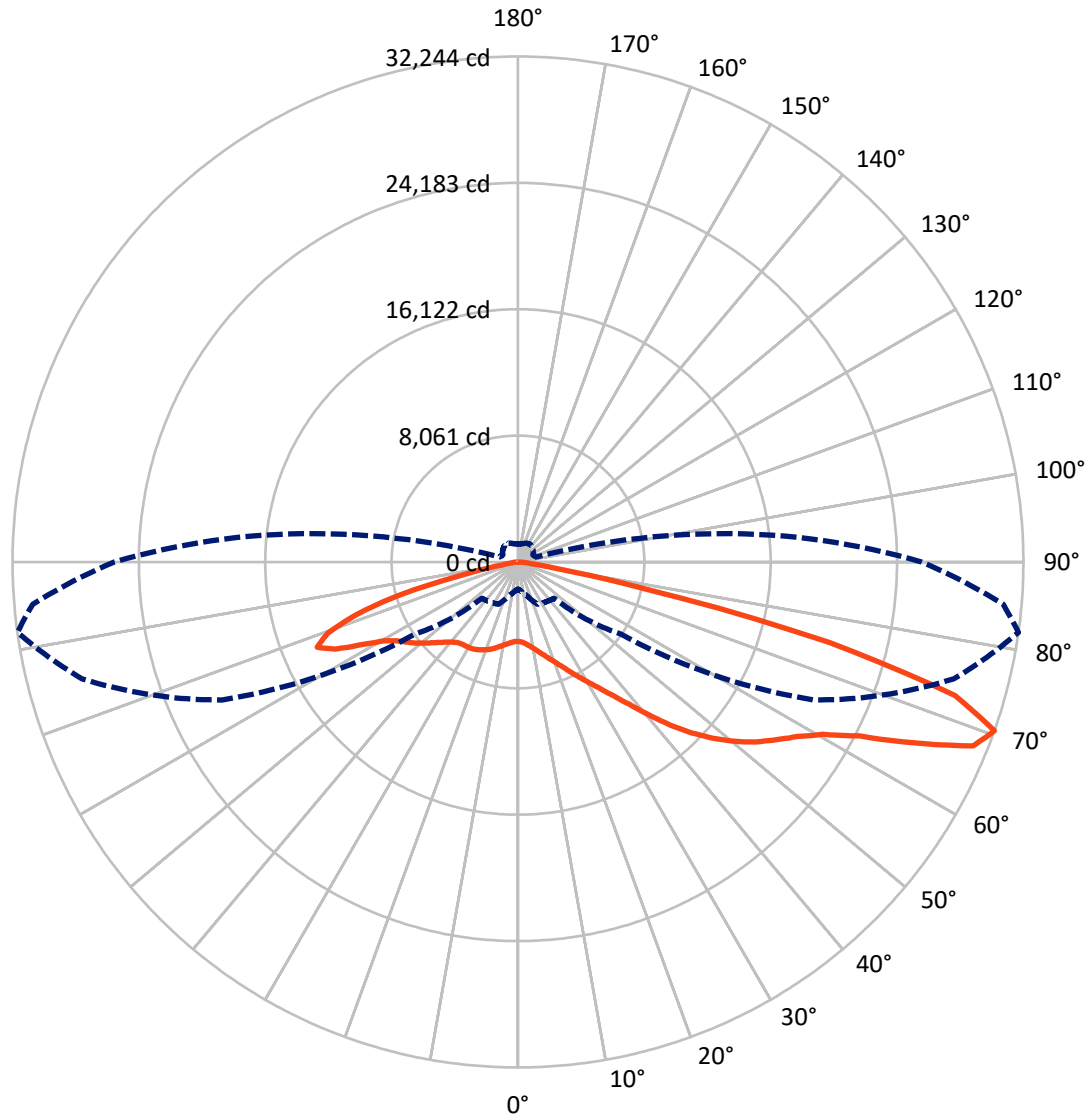
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Medium - N/A

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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
House Side	Lumens	8506.1	0.0	8506.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	25997.9	0.0	25997.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	34504.0	0.0	34504.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.6	1.4
10°-20°	1372.3	4.0
20°-30°	2295.7	6.7
30°-40°	3586.4	10.4
40°-50°	5711.8	16.6
50°-60°	7948.6	23.0
60°-70°	8314.6	24.1
70°-80°	4345.7	12.6
80°-90°	451.2	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°	34504.0	100.0
0°-180°	34504.0	100.0

Coefficient of Utilization



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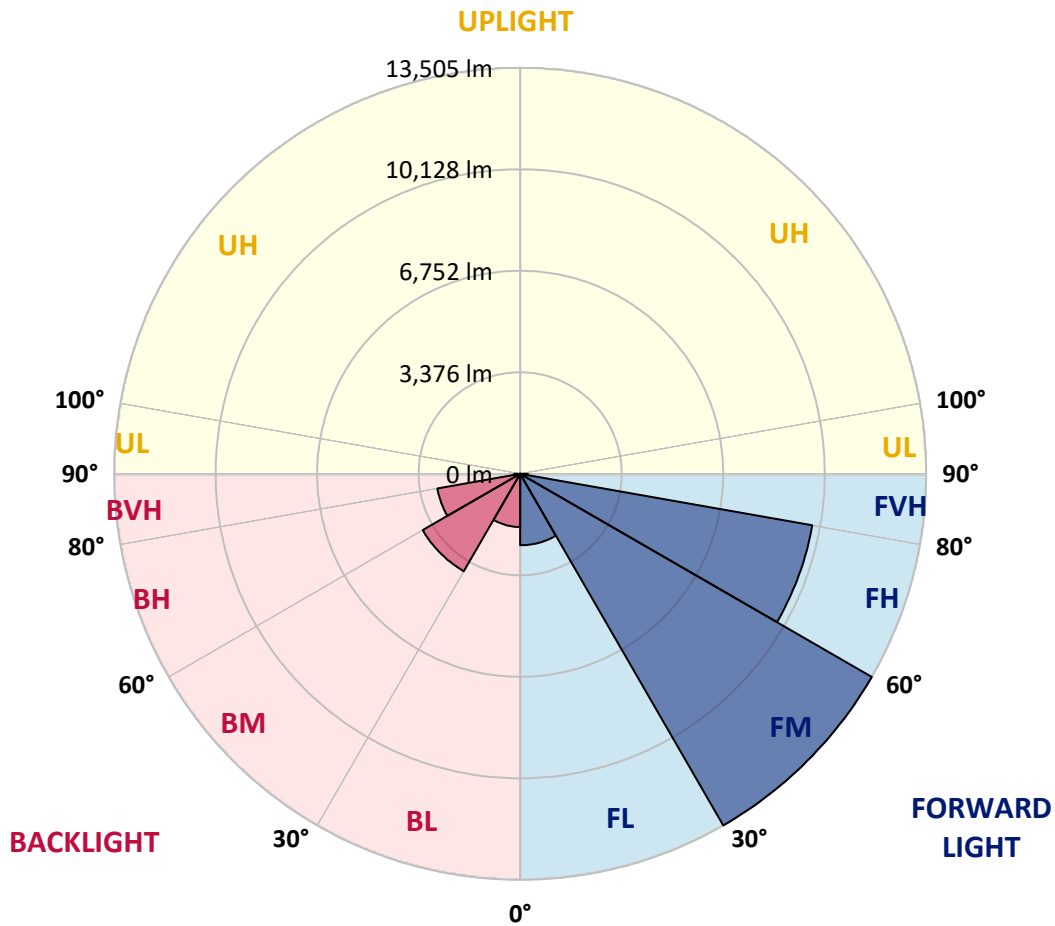
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2376.0	6.9			
FM (30°-60°)	13504.5	39.1			
FH (60°-80°)	9864.8	28.6			G4/12000
FVH (80°-90°)	252.6	0.7			G3/500
BL (0°-30°)	1769.6	5.1	B3/2500		
BM (30°-60°)	3742.3	10.8	B3/5000		
BH (60°-80°)	2795.5	8.1	B4/5000		G4/5000
BVH (80°-90°)	198.6	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5058.7	5058.7	5058.7	5058.7	5058.7	5058.7	5058.7	5058.7	5058.7	5058.7
2.5°	5179.6	5208.8	5199.7	5190.5	5190.5	5177.7	5175.9	5157.6	5142.9	5119.1
5°	5245.5	5276.6	5272.9	5280.3	5304.1	5309.5	5315.0	5304.1	5274.8	5245.5
7.5°	5186.9	5221.7	5232.7	5276.6	5349.8	5415.7	5465.2	5485.3	5457.8	5415.7
10°	4989.1	5027.6	5066.0	5170.4	5300.4	5456.0	5587.8	5666.6	5661.1	5620.8
12.5°	4588.2	4628.5	4710.9	4914.1	5152.1	5426.7	5672.1	5836.8	5893.6	5864.3
15°	4267.8	4302.6	4364.8	4573.5	4883.0	5300.4	5703.2	6023.6	6168.2	6151.8
17.5°	4258.6	4273.3	4311.7	4410.6	4648.6	5102.7	5670.2	6206.7	6483.1	6481.3
20°	4419.7	4425.2	4447.2	4467.3	4602.8	4952.5	5586.0	6358.6	6836.5	6836.5
22.5°	4643.1	4639.4	4661.4	4643.1	4709.0	4939.7	5532.9	6492.3	7230.1	7259.4
25°	4978.2	4959.9	4954.4	4912.2	4925.1	5058.7	5591.5	6644.3	7697.0	7757.4
27.5°	5424.9	5395.6	5375.5	5278.4	5245.5	5304.1	5770.9	6827.3	8217.0	8321.3
30°	6007.1	5954.0	5924.7	5756.3	5637.3	5646.4	6041.9	7070.9	8760.8	8929.2
32.5°	6801.7	6719.3	6640.6	6364.1	6146.3	6074.9	6391.6	7407.7	9350.3	9619.4
35°	7691.5	7625.6	7541.4	7114.8	6779.7	6615.0	6864.0	7878.3	10040.5	10467.1
37.5°	8548.4	8491.6	8531.9	7957.0	7524.9	7285.1	7482.8	8509.9	10891.9	11521.7
40°	9434.5	9390.6	9396.1	8846.8	8343.3	8074.2	8233.5	9302.7	11867.8	12775.9
42.5°	10397.6	10364.6	10254.8	9767.7	9202.0	8951.2	9097.6	10218.1	12915.0	14204.0
45°	11475.9	11455.8	11353.3	10794.9	10146.7	9864.8	10062.5	11228.8	13967.8	15547.8
47.5°	12407.9	12424.3	12411.5	11941.0	11269.1	10855.3	11091.5	12283.4	14947.3	16811.1
50°	12856.4	12942.5	13068.8	12922.3	12504.9	12083.8	12129.6	13301.3	15881.0	17995.7
52.5°	12622.1	12785.0	13129.2	13363.6	13524.7	13436.8	13314.1	14312.0	16759.9	19064.9
55°	11748.7	11977.6	12548.8	13114.6	13936.6	14575.6	14736.7	15432.5	17616.7	20006.0
57.5°	10157.7	10529.4	11042.0	12186.3	13570.5	15126.7	16395.5	16986.9	18524.8	21011.2
60°	7429.7	7927.7	8564.9	10267.6	12288.9	14831.9	17807.1	19374.4	19815.6	22312.9
62.5°	4754.8	5062.4	5648.3	7252.1	9575.5	13321.5	18239.2	22358.7	22003.5	24447.7
65°	3255.3	3453.0	3989.5	4890.3	6190.2	9916.0	17082.1	24596.0	25478.5	27831.2
67.5°	2365.5	2515.6	2973.3	3762.5	4033.4	5868.0	13255.6	24493.5	28856.5	31317.2
70°	1724.7	1830.9	2215.4	2973.3	3103.3	3264.5	8030.2	20820.8	28783.2	32243.6
72.5°	1278.0	1351.2	1609.3	2306.9	2512.0	2204.4	3974.8	15132.2	24733.3	29164.1
75°	924.6	979.5	1169.9	1765.0	2010.3	1678.9	1982.8	8843.1	17252.4	20515.0
77.5°	706.7	748.8	873.3	1292.6	1609.3	1259.6	1230.4	4068.2	8180.4	8220.6
80°	567.6	595.0	662.8	909.9	1234.0	942.9	801.9	1642.3	2585.2	2187.9
82.5°	417.4	463.2	560.2	639.0	882.5	650.0	488.8	829.4	983.2	845.9
85°	238.0	269.1	338.7	457.7	563.9	397.3	280.1	368.0	457.7	375.3
87.5°	84.2	109.9	119.0	179.4	245.3	164.8	108.0	106.2	150.1	111.7
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°
5058.7	0°	5058.7	5058.7	5058.7	5058.7	5058.7	5058.7	5058.7	5058.7	5058.7	5058.7
5113.6	2.5°	5095.3	5086.2	5049.6	5000.1	4948.9	4899.4	4883.0	4848.2	4824.4	4811.5
5232.7	5°	5197.9	5168.6	5082.5	4972.7	4857.3	4732.8	4644.9	4564.4	4505.8	4450.9
5395.6	7.5°	5344.3	5293.1	5144.8	4952.5	4747.5	4540.6	4386.8	4269.6	4190.9	4139.6
5586.0	10°	5514.6	5435.9	5208.8	4921.4	4604.7	4308.1	4126.8	4026.1	3976.7	3949.2
5803.9	12.5°	5710.5	5598.8	5274.8	4850.0	4386.8	4048.1	3923.6	3894.3	3896.1	3897.9
6078.5	15°	5952.2	5796.6	5327.9	4694.4	4103.0	3848.5	3826.5	3874.1	3923.6	3947.4
6389.8	17.5°	6225.0	6005.3	5337.0	4438.0	3824.7	3720.3	3789.9	3892.4	3967.5	4000.5
6737.6	20°	6517.9	6217.7	5271.1	4075.5	3595.8	3616.0	3740.5	3872.3	3954.7	3996.8
7134.9	22.5°	6853.0	6444.7	5113.6	3694.7	3409.1	3502.5	3648.9	3777.1	3863.2	3905.3
7601.8	25°	7235.6	6699.2	4866.5	3374.3	3248.0	3374.3	3520.8	3627.0	3696.5	3735.0
8123.6	27.5°	7660.4	6964.7	4536.9	3119.8	3107.0	3242.5	3363.3	3445.7	3482.3	3511.6
8678.4	30°	8087.0	7206.3	4137.8	2927.6	2984.3	3112.5	3198.5	3235.2	3246.1	3251.6
9297.2	32.5°	8548.4	7415.1	3718.5	2768.3	2867.2	2986.2	3037.4	3053.9	3002.6	2967.9
10047.9	35°	9106.8	7638.4	3308.4	2642.0	2751.8	2854.3	2870.8	2856.2	2795.8	2724.3
10988.9	37.5°	9797.0	7916.7	2980.7	2552.2	2643.8	2711.5	2691.4	2687.7	2693.2	2609.0
12120.4	40°	10642.9	8279.2	2740.8	2482.7	2555.9	2570.6	2513.8	2544.9	2572.4	2444.2
13361.8	42.5°	11582.1	8716.8	2588.9	2435.1	2482.7	2447.9	2360.0	2394.8	2391.1	2222.7
14608.6	45°	12539.7	9192.8	2535.8	2400.3	2414.9	2345.4	2248.3	2257.5	2180.6	2028.6
15804.1	47.5°	13491.7	9703.7	2568.7	2371.0	2330.7	2252.0	2176.9	2136.6	2023.1	1909.6
16950.3	50°	14425.5	10240.1	2689.6	2312.4	2215.4	2169.6	2114.7	2043.3	1922.4	1825.4
18034.2	52.5°	15291.5	10780.2	2825.0	2215.4	2070.7	2098.2	2063.4	1981.0	1862.0	1763.1
19059.4	55°	16111.7	11320.3	2878.1	2081.7	1935.2	2035.9	2015.8	1863.8	1721.0	1640.5
20132.3	57.5°	17005.2	11970.3	2819.6	1911.4	1825.4	1964.5	1887.6	1719.2	1636.8	1576.4
21529.3	60°	18242.9	12990.1	2693.2	1700.9	1721.0	1858.3	1726.5	1656.9	1567.2	1499.5
23623.8	62.5°	20299.0	14892.4	2490.0	1492.2	1598.4	1700.9	1649.6	1580.0	1488.5	1422.6
27205.0	65°	23338.2	17536.2	2107.3	1329.2	1461.0	1547.1	1567.2	1497.7	1402.5	1332.9
30343.2	67.5°	25901.4	19194.9	1594.7	1193.7	1320.1	1422.6	1479.3	1411.6	1310.9	1243.2
31077.3	70°	25760.5	17990.2	1217.5	1060.1	1195.6	1299.9	1373.2	1320.1	1212.0	1148.0
28228.5	72.5°	22880.5	15049.8	985.0	924.6	1069.2	1171.8	1259.6	1219.4	1109.5	1047.3
20679.8	75°	16809.3	10683.2	787.3	787.3	911.8	1038.1	1135.1	1109.5	1008.8	964.9
8682.0	77.5°	7085.5	4482.0	617.0	653.6	758.0	891.6	1012.5	1021.6	933.7	988.7
2295.9	80°	1884.0	1235.8	470.5	514.5	595.0	736.0	880.7	877.0	781.8	730.5
853.2	82.5°	717.7	487.0	335.1	362.5	430.3	563.9	697.6	719.5	624.3	540.1
335.1	85°	276.5	208.7	206.9	217.9	250.8	373.5	527.3	545.6	470.5	399.1
93.4	87.5°	71.4	62.2	76.9	73.2	115.3	199.6	302.1	313.1	287.4	166.6
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>
5058.7
4826.2
4472.8
4150.6
3956.5
3901.6
3945.5
4007.8
4007.8
3916.2
3746.0
3522.6
3264.5
2978.8
2728.0
2614.5
2447.9
2220.9
2034.1
1909.6
1818.1
1765.0
1633.1
1570.9
1495.8
1422.6
1336.5
1245.0
1153.5
1047.3
952.1
897.1
679.3
540.1
411.9
238.0
0.0

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