

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: P950350

Luminaire Tested: **GALN-SB4D-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950350
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-SB4D-827-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36407 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

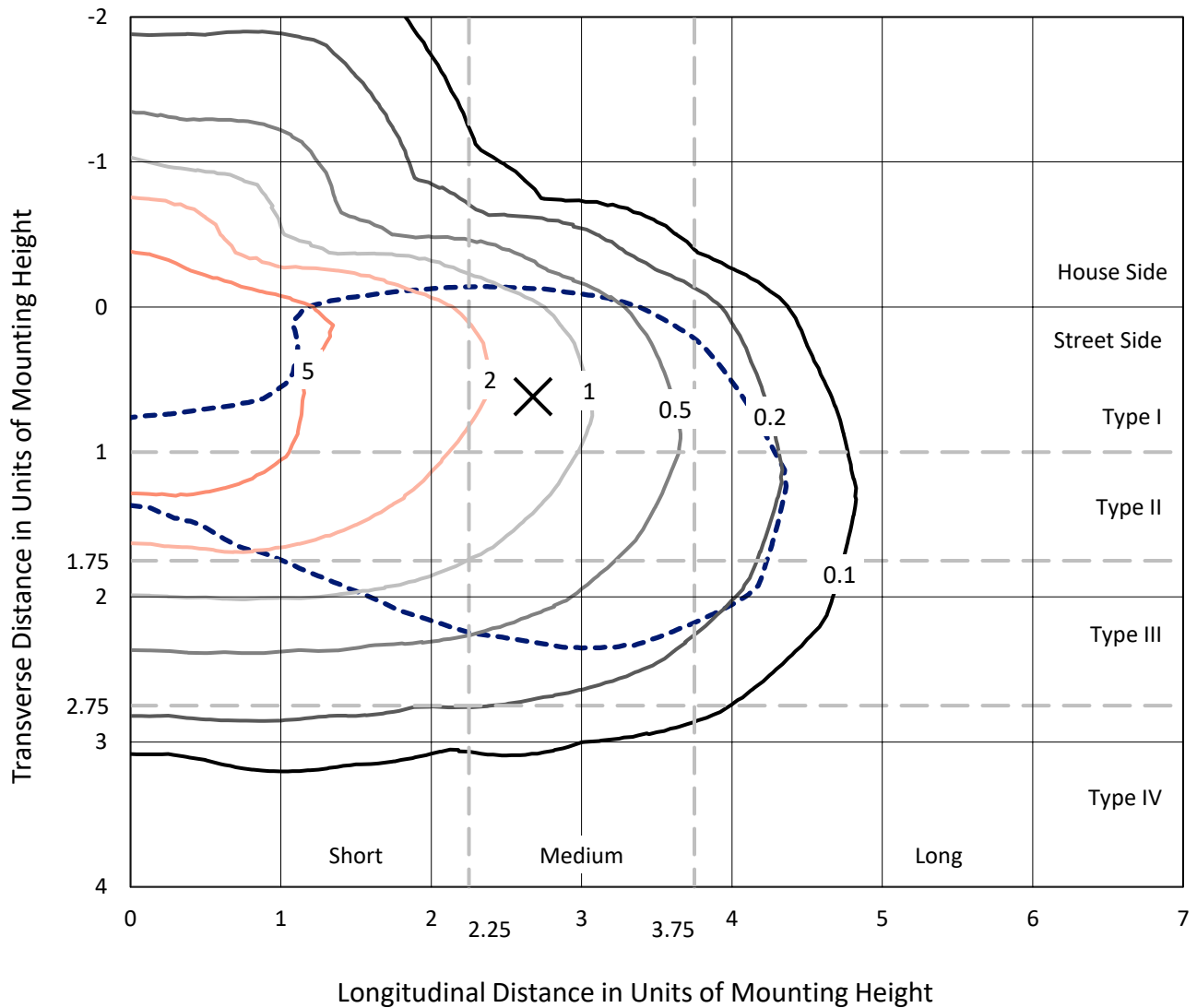
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

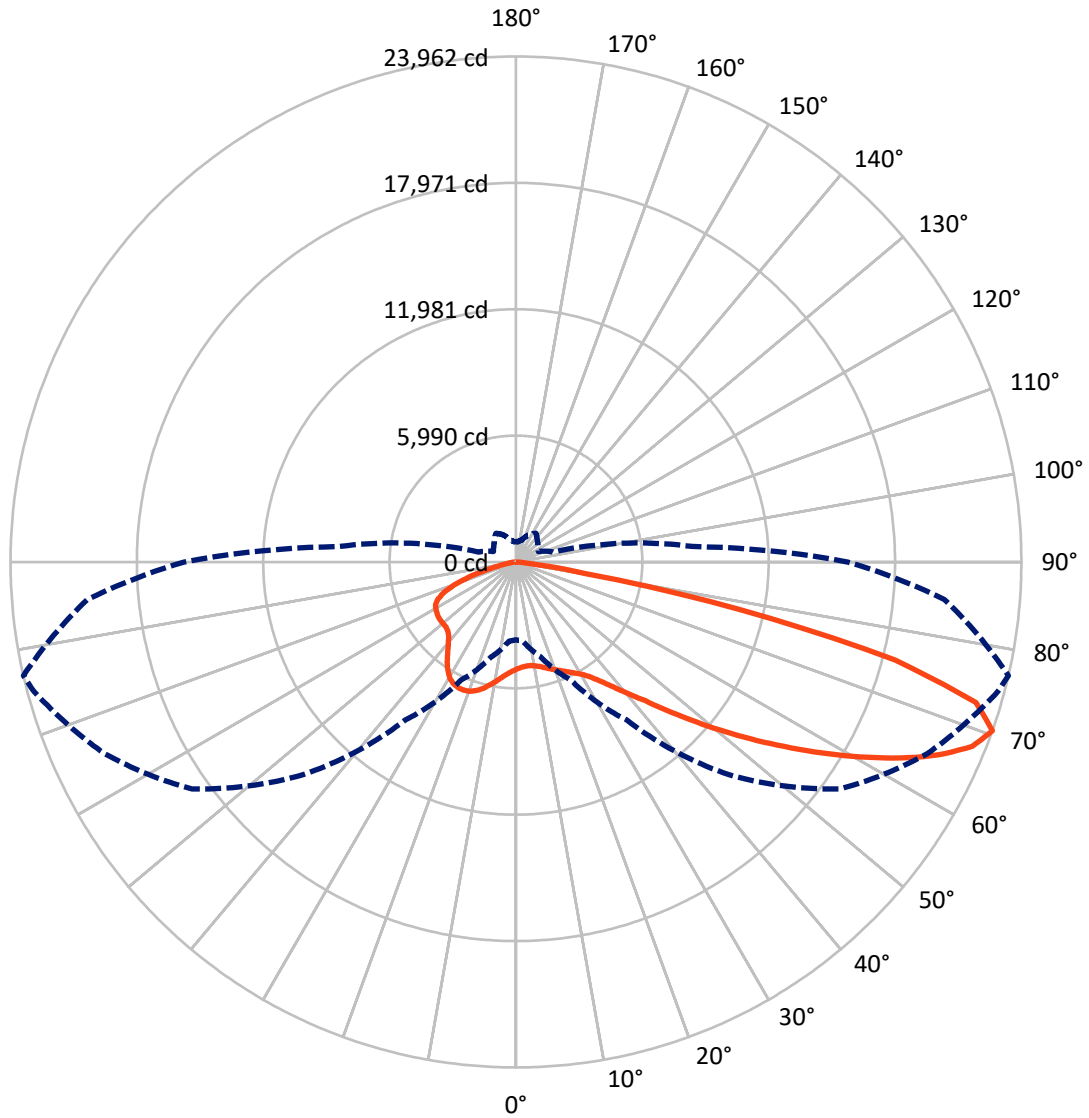
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	7972.6	0.0	7972.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	28434.4	0.0	28434.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	36407.0	0.0	36407.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.4	1.3
10°-20°	1398.1	3.8
20°-30°	2390.9	6.6
30°-40°	3844.8	10.6
40°-50°	6002.7	16.5
50°-60°	8018.2	22.0
60°-70°	8546.1	23.5
70°-80°	5260.9	14.5
80°-90°	461.0	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°	36407.0	100.0
0°-180°	36407.0	100.0



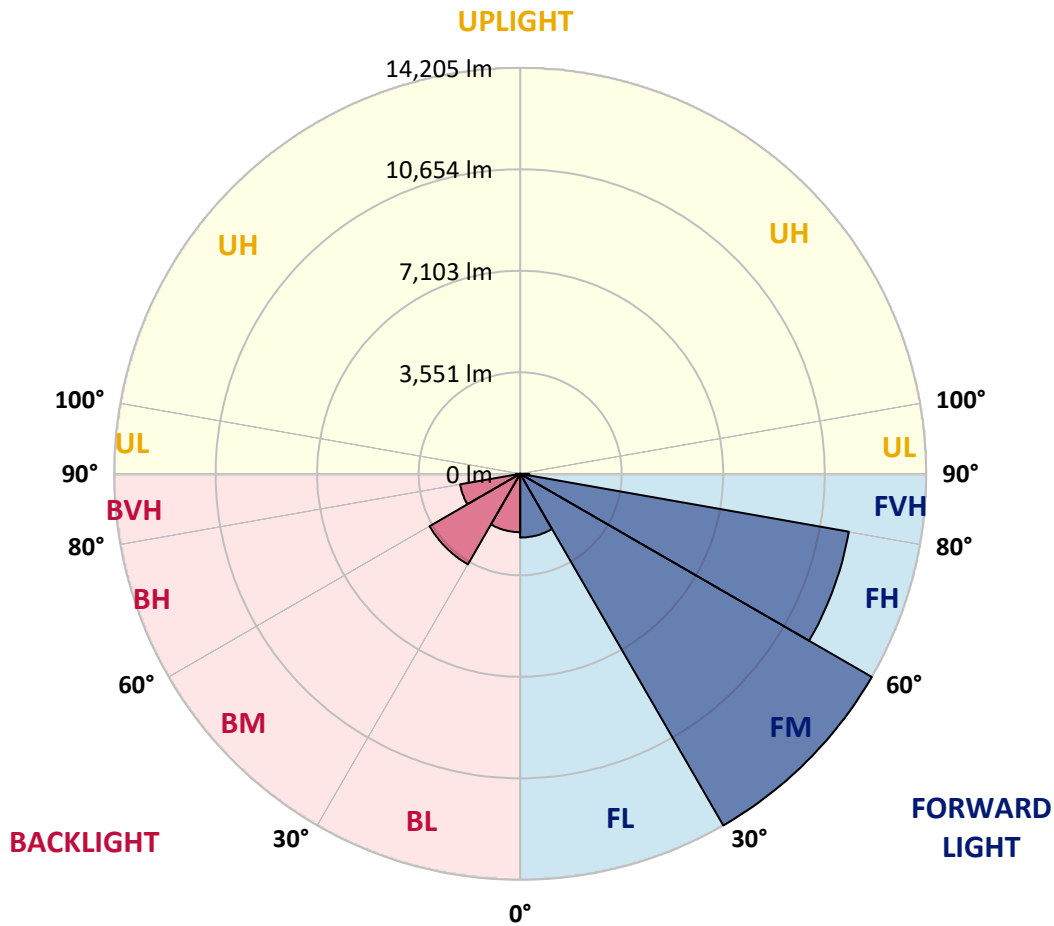
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2230.5	6.1			
FM (30°-60°)	14205.2	39.0			
FH (60°-80°)	11676.3	32.1			G4/12000
FVH (80°-90°)	322.4	0.9			G3/500
BL (0°-30°)	2042.8	5.6	B3/2500		
BM (30°-60°)	3660.4	10.1	B3/5000		
BH (60°-80°)	2130.7	5.9	B3/2500		G3/2500
BVH (80°-90°)	138.6	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°	5079.1	5079.1	5079.1	5079.1	5079.1	5079.1	5079.1	5079.1	5079.1	5079.1
2.5°	4682.0	4680.1	4704.3	4711.8	4756.5	4788.2	4847.9	4911.3	4993.3	5002.7
5°	4411.6	4411.6	4439.6	4469.4	4527.2	4590.6	4682.0	4792.0	4933.7	4956.0
7.5°	4182.2	4197.2	4221.4	4279.2	4346.3	4437.7	4577.5	4734.2	4920.6	4956.0
10°	3997.7	4014.4	4044.3	4090.9	4191.6	4318.4	4501.1	4702.5	4952.3	5008.3
12.5°	3939.9	3956.6	3973.4	4008.8	4102.1	4251.2	4469.4	4717.4	5028.8	5084.7
15°	4074.1	4094.6	4081.6	4072.2	4120.7	4256.8	4484.3	4771.5	5123.9	5204.0
17.5°	4383.6	4391.1	4361.2	4273.6	4266.2	4338.9	4555.2	4846.0	5243.2	5330.8
20°	4883.3	4870.3	4808.7	4635.3	4536.5	4521.6	4676.4	4957.9	5366.3	5459.5
22.5°	5562.0	5547.1	5424.1	5150.0	4929.9	4784.5	4851.6	5103.3	5504.2	5608.6
25°	6408.6	6388.0	6207.2	5834.3	5493.0	5133.2	5090.3	5295.4	5673.9	5770.9
27.5°	7396.8	7380.0	7184.2	6692.0	6199.7	5610.5	5386.8	5521.0	5851.0	5961.1
30°	8459.6	8508.1	8161.3	7631.7	7008.9	6233.3	5785.8	5798.8	6080.4	6179.2
32.5°	9708.9	9792.8	9375.1	8703.8	7853.6	6910.1	6289.2	6186.7	6414.1	6496.2
35°	10946.9	11042.0	10695.2	9953.1	8974.2	7708.2	6815.0	6632.3	6857.9	6947.4
37.5°	12017.2	12144.0	11965.0	11319.8	10173.1	8670.3	7501.2	7156.2	7404.2	7516.1
40°	12861.9	13055.8	13042.7	12640.0	11586.5	9837.5	8372.0	7803.3	8082.9	8204.1
42.5°	13548.0	13715.8	13861.3	13840.8	13061.4	11163.2	9395.6	8644.2	8856.7	8996.6
45°	14021.6	14200.6	14513.9	14851.4	14480.3	12582.2	10568.4	9641.7	9835.6	10046.3
47.5°	14444.9	14648.1	15054.6	15589.7	15684.8	14006.7	11853.1	10803.4	10980.5	11198.7
50°	14482.2	14657.4	15287.7	16046.6	16540.7	15375.3	13232.9	12106.7	12272.6	12505.7
52.5°	13581.6	13857.5	14957.6	16033.5	16934.1	16520.2	14603.4	13462.2	13648.7	13928.4
55°	10542.3	10946.9	13989.9	15533.8	16794.2	17260.4	15906.7	14903.6	15142.2	15435.0
57.5°	9080.5	9257.6	11105.4	14623.9	16156.6	17452.4	17006.8	16359.8	16743.9	17064.6
60°	8161.3	8308.6	9401.2	13208.7	15317.5	17148.5	17857.1	17717.2	18381.0	18763.2
62.5°	7176.8	7316.6	8310.4	11029.0	14243.5	16643.2	18394.1	18970.2	20059.1	20476.8
65°	6199.7	6319.1	7271.9	9266.9	12878.6	16137.9	18671.9	20053.5	21612.3	22044.9
67.5°	5110.8	5209.6	6110.2	7818.2	11219.2	15446.2	18809.9	20905.6	22964.1	23335.2
70°	3688.1	3764.6	4695.0	6182.9	9136.4	14256.6	18753.9	21509.8	23665.2	23961.7
72.5°	1743.4	1812.4	2905.0	4014.4	6453.3	11940.8	17622.1	21030.6	22952.9	22805.6
75°	930.4	990.1	1668.8	2202.1	3408.4	8185.5	14420.6	18116.2	19274.1	18558.1
77.5°	630.2	676.8	1033.0	1322.0	1556.9	3885.8	9268.8	12543.0	12067.5	10885.4
80°	499.7	548.2	846.5	895.0	753.3	1404.0	3829.8	5806.3	4171.1	3335.7
82.5°	384.1	438.2	712.3	648.9	410.2	576.2	1115.0	1836.6	1068.4	813.0
85°	234.9	292.7	559.4	413.9	231.2	262.9	378.5	510.9	326.3	272.2
87.5°	119.3	167.8	283.4	151.0	104.4	61.5	100.7	100.7	85.8	74.6
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°
5079.1	0°	5079.1	5079.1	5079.1	5079.1	5079.1	5079.1	5079.1	5079.1	5079.1	5079.1
5053.0	2.5°	5097.8	5135.0	5198.4	5258.1	5304.7	5349.5	5394.2	5418.5	5425.9	5455.8
5081.0	5°	5157.4	5226.4	5349.5	5465.1	5537.8	5582.5	5614.2	5632.9	5636.6	5645.9
5157.4	7.5°	5267.4	5377.4	5549.0	5664.6	5718.7	5714.9	5701.9	5655.3	5636.6	5619.8
5269.3	10°	5422.2	5567.6	5778.3	5858.5	5824.9	5735.4	5619.8	5483.7	5420.3	5358.8
5422.2	12.5°	5614.2	5798.8	6005.8	6002.1	5836.1	5606.8	5338.3	5129.5	4997.1	4902.0
5610.5	15°	5847.3	6059.9	6218.4	6091.6	5728.0	5315.9	4922.5	4650.3	4530.9	4426.5
5800.7	17.5°	6087.8	6315.3	6388.0	6063.6	5455.8	4885.2	4439.6	4225.1	4107.7	4051.7
6005.8	20°	6322.8	6548.4	6488.7	5903.3	5041.8	4396.7	3999.5	3882.0	3857.8	3870.9
6205.3	22.5°	6570.8	6772.1	6509.2	5593.7	4514.1	3897.0	3678.8	3682.5	3736.6	3775.8
6414.1	25°	6824.4	6960.5	6455.2	5146.2	3947.3	3529.6	3475.6	3535.2	3641.5	3718.0
6649.1	27.5°	7068.6	7128.3	6337.7	4592.5	3460.7	3266.7	3276.1	3399.1	3559.5	3665.8
6934.4	30°	7344.6	7277.4	6112.1	3969.7	3123.2	3041.1	3119.4	3263.0	3423.4	3518.5
7294.2	32.5°	7656.0	7406.1	5754.1	3393.5	2884.5	2860.3	2988.9	3082.1	3153.0	3181.0
7771.6	35°	8043.8	7587.0	5295.4	2988.9	2670.1	2727.9	2850.9	2804.3	2776.4	2761.4
8413.0	37.5°	8547.2	7831.2	4758.4	2726.0	2496.7	2632.8	2683.1	2537.7	2427.7	2373.6
9190.5	40°	9153.2	8189.2	4241.9	2522.8	2386.7	2550.7	2463.1	2287.8	2148.0	2071.5
10065.0	42.5°	9826.3	8564.0	3807.5	2369.9	2325.1	2483.6	2300.9	2092.1	1866.4	1842.2
11107.3	45°	10533.0	8950.0	3511.0	2252.4	2295.3	2425.8	2207.7	1870.2	1709.8	1808.6
12153.3	47.5°	11239.7	9304.2	3332.0	2164.8	2280.4	2360.6	2125.6	1747.1	1633.4	1776.9
13273.9	50°	12026.5	9621.2	3251.8	2101.4	2263.6	2334.5	2002.6	1715.4	1553.2	1648.3
14433.7	52.5°	12807.8	9867.3	3192.2	2038.0	2239.4	2313.9	1942.9	1678.1	1456.2	1461.8
15600.9	55°	13587.2	10027.7	3126.9	1954.1	2185.3	2269.2	1937.3	1637.1	1383.5	1357.4
16835.3	57.5°	14418.8	10119.1	3046.7	1860.8	2092.1	2155.5	1931.7	1605.4	1361.1	1318.3
18097.6	60°	15265.3	10253.3	2942.3	1747.1	1967.1	2019.3	1918.7	1594.2	1348.1	1275.4
19287.2	62.5°	16024.2	10299.9	2817.4	1639.0	1806.8	1885.1	1890.7	1584.9	1312.7	1187.7
20275.4	65°	16522.0	10098.6	2599.2	1515.9	1633.4	1747.1	1836.6	1553.2	1249.3	1124.3
20763.9	67.5°	16501.5	9524.3	2258.0	1357.4	1465.6	1594.2	1758.3	1499.1	1172.8	1046.0
20394.7	70°	15733.3	8390.6	1825.4	1172.8	1281.0	1430.1	1657.6	1418.9	1081.5	960.3
18134.9	72.5°	13493.9	6567.0	1325.7	956.5	1066.5	1260.5	1527.1	1322.0	988.2	883.8
13402.6	75°	9639.9	4156.1	898.7	734.6	829.7	1068.4	1364.9	1208.2	902.5	887.5
6712.5	77.5°	4924.3	1985.8	594.8	537.0	578.0	842.8	1146.7	1079.6	915.5	732.8
1909.3	80°	1601.7	732.8	374.8	365.5	384.1	561.2	887.5	885.7	693.6	497.8
462.4	82.5°	510.9	315.1	244.3	234.9	225.6	352.4	619.0	701.1	468.0	315.1
165.9	85°	203.2	188.3	143.6	132.4	95.1	165.9	324.4	466.1	348.7	227.5
42.9	87.5°	74.6	74.6	39.2	28.0	20.5	55.9	87.6	139.8	199.5	117.5
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>
5079.1
5472.5
5660.9
5623.6
5340.1
4879.6
4415.3
4068.5
3865.3
3785.1
3738.5
3691.9
3540.8
3195.9
2776.4
2386.7
2077.1
1866.4
1860.8
1844.1
1719.1
1501.0
1376.1
1323.8
1281.0
1187.7
1124.3
1051.6
971.4
878.2
837.2
652.6
440.0
313.2
233.1
115.6
0.0

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