

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: STREETWORKS

Report Number: P850526

Luminaire Tested: **GLAN-SB8A-827-U-T2**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB8A-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28656 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

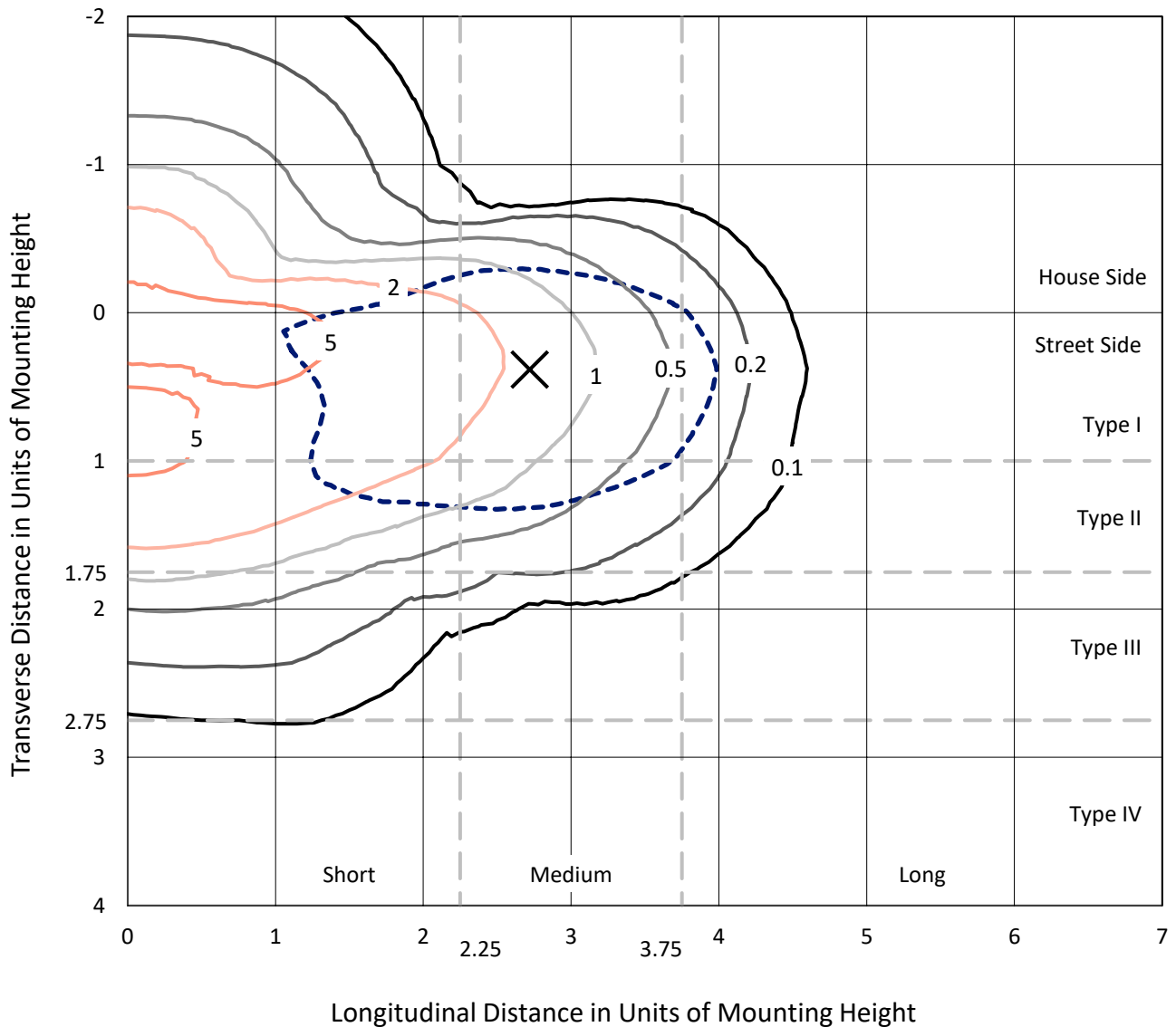
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

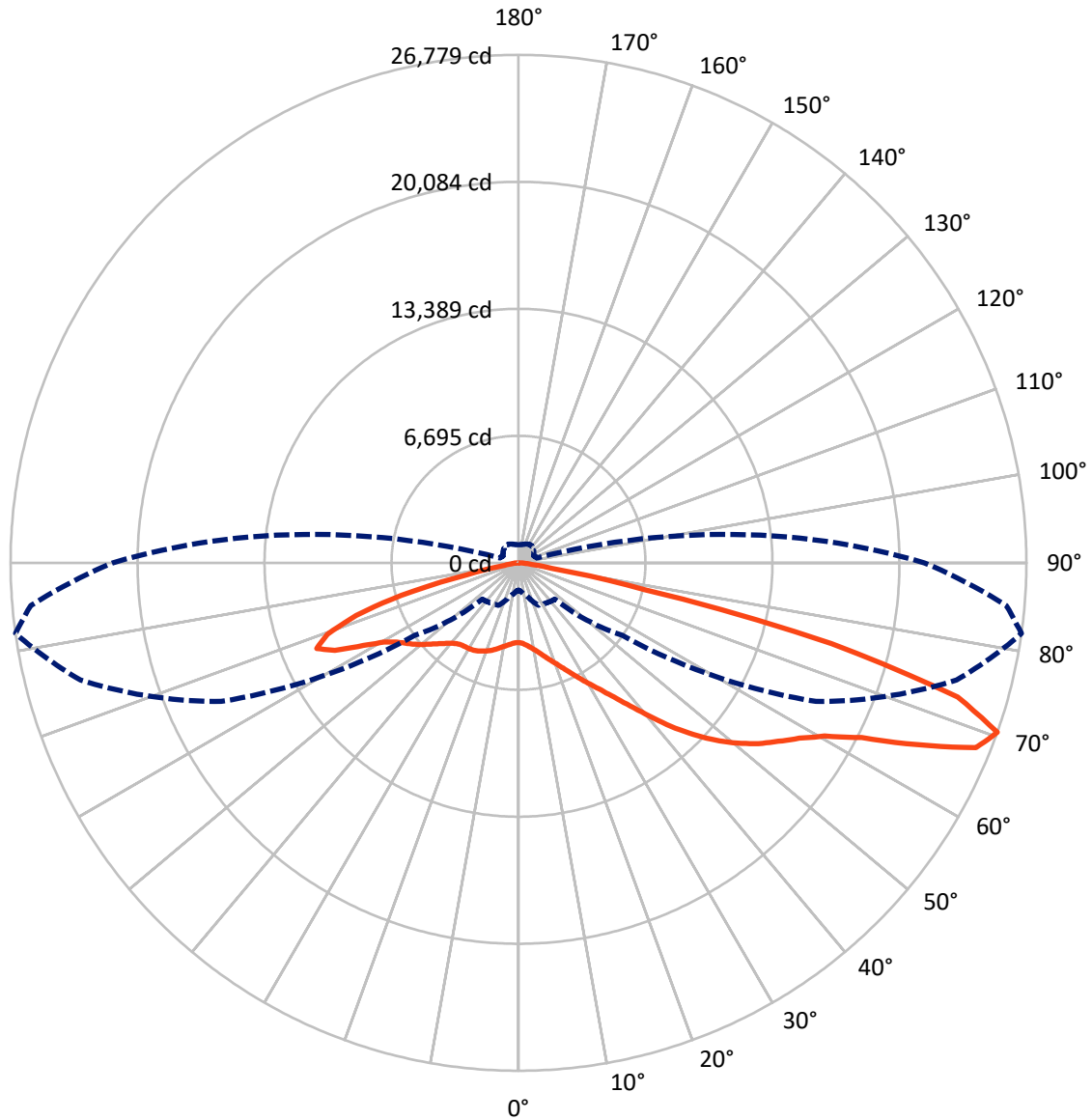
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	7064.4	0.0	7064.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	21591.6	0.0	21591.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	28656.0	0.0	28656.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.7	1.4
10°-20°	1139.7	4.0
20°-30°	1906.6	6.7
30°-40°	2978.6	10.4
40°-50°	4743.7	16.6
50°-60°	6601.5	23.0
60°-70°	6905.4	24.1
70°-80°	3609.1	12.6
80°-90°	374.8	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°	28656.0	100.0
0°-180°	28656.0	100.0

Coefficient of Utilization



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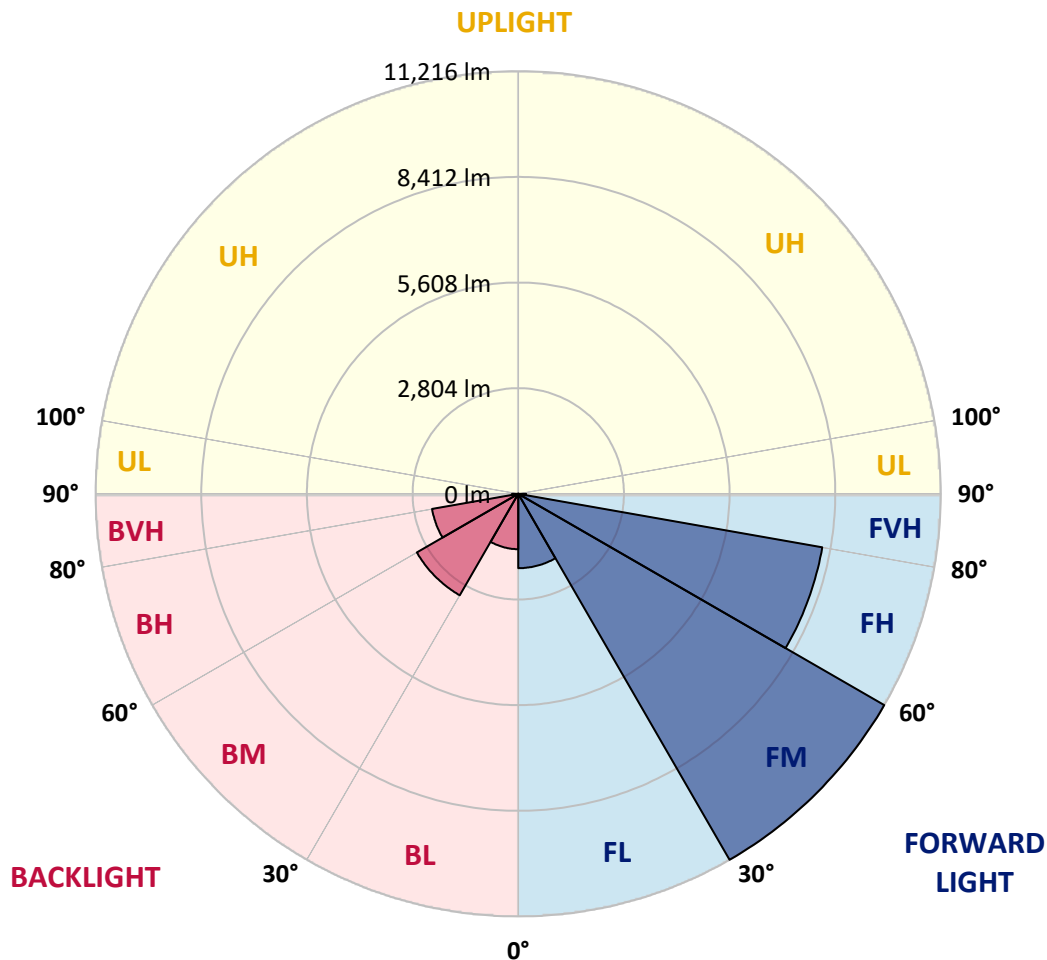
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1973.3	6.9			
FM (30°-60°)	11215.7	39.1			
FH (60°-80°)	8192.8	28.6			G4/12000
FVH (80°-90°)	209.8	0.7			G2/225
BL (0°-30°)	1469.7	5.1	B3/2500		
BM (30°-60°)	3108.1	10.8	B3/5000		
BH (60°-80°)	2321.7	8.1	B3/2500		G3/2500
BVH (80°-90°)	165.0	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3
2.5°	4301.7	4326.0	4318.4	4310.8	4310.8	4300.2	4298.6	4283.4	4271.3	4251.5
5°	4356.4	4382.3	4379.2	4385.3	4405.1	4409.6	4414.2	4405.1	4380.8	4356.4
7.5°	4307.8	4336.7	4345.8	4382.3	4443.1	4497.8	4538.9	4555.6	4532.8	4497.8
10°	4143.5	4175.5	4207.4	4294.1	4402.0	4531.3	4640.8	4706.2	4701.6	4668.1
12.5°	3810.5	3844.0	3912.4	4081.2	4278.9	4507.0	4710.7	4847.6	4894.7	4870.4
15°	3544.4	3573.3	3625.0	3798.4	4055.4	4402.0	4736.6	5002.7	5122.8	5109.1
17.5°	3536.8	3549.0	3580.9	3663.0	3860.7	4237.8	4709.2	5154.7	5384.3	5382.8
20°	3670.6	3675.2	3693.5	3710.2	3822.7	4113.1	4639.3	5280.9	5677.8	5677.8
22.5°	3856.2	3853.1	3871.4	3856.2	3910.9	4102.5	4595.2	5391.9	6004.7	6029.1
25°	4134.4	4119.2	4114.7	4079.7	4090.3	4201.3	4643.8	5518.1	6392.5	6442.6
27.5°	4505.4	4481.1	4464.4	4383.8	4356.4	4405.1	4792.8	5670.2	6824.3	6911.0
30°	4989.0	4944.9	4920.6	4780.7	4681.8	4689.4	5017.9	5872.4	7275.9	7415.8
32.5°	5648.9	5580.5	5515.1	5285.5	5104.5	5045.2	5308.3	6152.2	7765.5	7989.1
35°	6387.9	6333.2	6263.2	5908.9	5630.7	5493.8	5700.6	6543.0	8338.8	8693.1
37.5°	7099.5	7052.4	7085.8	6608.4	6249.5	6050.3	6214.6	7067.6	9045.9	9568.9
40°	7835.5	7799.0	7803.6	7347.4	6929.2	6705.7	6838.0	7726.0	9856.3	10610.5
42.5°	8635.3	8607.9	8516.7	8112.2	7642.4	7434.1	7555.7	8486.3	10726.1	11796.6
45°	9530.9	9514.2	9429.0	8965.3	8427.0	8192.8	8357.0	9325.6	11600.4	12912.7
47.5°	10304.9	10318.6	10307.9	9917.1	9359.1	9015.4	9211.6	10201.5	12413.9	13961.9
50°	10677.4	10748.9	10853.8	10732.2	10385.5	10035.7	10073.8	11046.9	13189.4	14945.7
52.5°	10482.8	10618.1	10904.0	11098.6	11232.4	11159.4	11057.6	11886.3	13919.3	15833.7
55°	9757.5	9947.6	10422.0	10891.8	11574.6	12105.2	12239.0	12816.9	14630.9	16615.2
57.5°	8436.1	8744.8	9170.5	10120.9	11270.4	12562.9	13616.7	14107.8	15385.1	17450.0
60°	6170.5	6584.1	7113.2	8527.3	10206.0	12318.1	14789.0	16090.6	16457.1	18531.2
62.5°	3948.9	4204.4	4691.0	6023.0	7952.6	11063.6	15147.9	18569.2	18274.2	20304.1
65°	2703.6	2867.8	3313.3	4061.4	5141.0	8235.4	14186.9	20427.3	21160.2	23114.1
67.5°	1964.6	2089.3	2469.4	3124.8	3349.8	4873.4	11008.9	20342.2	23965.7	26009.3
70°	1432.4	1520.6	1839.9	2469.4	2577.4	2711.2	6669.2	17291.9	23904.8	26778.7
72.5°	1061.4	1122.2	1336.6	1915.9	2086.2	1830.8	3301.2	12567.5	20541.3	24221.1
75°	767.9	813.5	971.6	1465.8	1669.6	1394.4	1646.8	7344.3	14328.3	17038.0
77.5°	586.9	621.9	725.3	1073.5	1336.6	1046.2	1021.8	3378.7	6793.9	6827.3
80°	471.4	494.2	550.4	755.7	1024.9	783.1	666.0	1363.9	2147.0	1817.1
82.5°	346.7	384.7	465.3	530.7	732.9	539.8	406.0	688.8	816.5	702.5
85°	197.7	223.5	281.3	380.1	468.3	330.0	232.6	305.6	380.1	311.7
87.5°	69.9	91.2	98.8	149.0	203.8	136.9	89.7	88.2	124.7	92.8
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°
4201.3	0°	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3
4246.9	2.5°	4231.7	4224.1	4193.7	4152.7	4110.1	4069.0	4055.4	4026.5	4006.7	3996.1
4345.8	5°	4316.9	4292.6	4221.1	4129.9	4034.1	3930.7	3857.7	3790.8	3742.1	3696.5
4481.1	7.5°	4438.5	4396.0	4272.8	4113.1	3942.8	3771.0	3643.3	3546.0	3480.6	3438.0
4639.3	10°	4579.9	4514.6	4326.0	4087.3	3824.2	3577.9	3427.4	3343.7	3302.7	3279.9
4820.2	12.5°	4742.6	4649.9	4380.8	4028.0	3643.3	3362.0	3258.6	3234.2	3235.8	3237.3
5048.3	15°	4943.4	4814.1	4424.9	3898.7	3407.6	3196.2	3178.0	3217.5	3258.6	3278.3
5306.8	17.5°	5169.9	4987.5	4432.5	3685.9	3176.5	3089.8	3147.6	3232.7	3295.1	3322.4
5595.7	20°	5413.2	5163.8	4377.7	3384.8	2986.4	3003.1	3106.5	3216.0	3284.4	3319.4
5925.7	22.5°	5691.5	5352.4	4246.9	3068.5	2831.3	2908.8	3030.5	3136.9	3208.4	3243.4
6313.4	25°	6009.3	5563.8	4041.7	2802.4	2697.5	2802.4	2924.1	3012.2	3070.0	3102.0
6746.8	27.5°	6362.1	5784.2	3768.0	2591.0	2580.4	2692.9	2793.3	2861.7	2892.1	2916.4
7207.5	30°	6716.3	5985.0	3436.5	2431.4	2478.5	2585.0	2656.4	2686.8	2696.0	2700.5
7721.4	32.5°	7099.5	6158.3	3088.3	2299.1	2381.2	2480.0	2522.6	2536.3	2493.7	2464.8
8344.9	35°	7563.3	6343.8	2747.7	2194.2	2285.4	2370.6	2384.2	2372.1	2321.9	2262.6
9126.4	37.5°	8136.6	6574.9	2475.5	2119.7	2195.7	2252.0	2235.2	2232.2	2236.8	2166.8
10066.2	40°	8839.1	6876.0	2276.3	2061.9	2122.7	2134.9	2087.7	2113.6	2136.4	2030.0
11097.1	42.5°	9619.1	7239.4	2150.1	2022.4	2061.9	2033.0	1960.0	1988.9	1985.9	1846.0
12132.6	45°	10414.4	7634.8	2106.0	1993.5	2005.6	1947.8	1867.3	1874.9	1811.0	1684.8
13125.5	47.5°	11205.1	8059.0	2133.4	1969.1	1935.7	1870.3	1808.0	1774.5	1680.2	1586.0
14077.4	50°	11980.6	8504.5	2233.7	1920.5	1839.9	1801.9	1756.3	1697.0	1596.6	1516.0
14977.6	52.5°	12699.8	8953.1	2346.2	1839.9	1719.8	1742.6	1713.7	1645.3	1546.4	1464.3
15829.1	55°	13381.0	9401.7	2390.3	1728.9	1607.2	1690.9	1674.1	1547.9	1429.3	1362.4
16720.2	57.5°	14123.0	9941.5	2341.7	1587.5	1516.0	1631.6	1567.7	1427.8	1359.4	1309.2
17880.4	60°	15150.9	10788.4	2236.8	1412.6	1429.3	1543.4	1433.9	1376.1	1301.6	1245.3
19619.9	62.5°	16858.5	12368.3	2068.0	1239.3	1327.5	1412.6	1370.0	1312.2	1236.2	1181.5
22594.1	65°	19382.7	14564.0	1750.2	1103.9	1213.4	1284.9	1301.6	1243.8	1164.8	1107.0
25200.4	67.5°	21511.5	15941.6	1324.4	991.4	1096.3	1181.5	1228.6	1172.4	1088.7	1032.5
25810.1	70°	21394.4	14941.1	1011.2	880.4	992.9	1079.6	1140.4	1096.3	1006.6	953.4
23444.1	72.5°	19002.5	12499.1	818.1	767.9	888.0	973.2	1046.2	1012.7	921.5	869.8
17174.8	75°	13960.3	8872.5	653.8	653.8	757.2	862.2	942.8	921.5	837.8	801.3
7210.5	77.5°	5884.6	3722.3	512.4	542.8	629.5	740.5	840.9	848.5	775.5	821.1
1906.8	80°	1564.7	1026.4	390.8	427.3	494.2	611.3	731.4	728.4	649.3	606.7
708.6	82.5°	596.1	404.5	278.3	301.1	357.3	468.3	579.3	597.6	518.5	448.6
278.3	85°	229.6	173.3	171.8	180.9	208.3	310.2	437.9	453.1	390.8	331.5
77.5	87.5°	59.3	51.7	63.9	60.8	95.8	165.7	250.9	260.0	238.7	138.4
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>
4201.3
4008.2
3714.7
3447.1
3285.9
3240.3
3276.8
3328.5
3328.5
3252.5
3111.1
2925.6
2711.2
2474.0
2265.6
2171.4
2033.0
1844.4
1689.4
1586.0
1509.9
1465.8
1356.3
1304.6
1242.3
1181.5
1110.0
1034.0
958.0
869.8
790.7
745.1
564.1
448.6
342.1
197.7
0.0

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