

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: P848318

Luminaire Tested: **GLAN-SB4D-827-U-T3**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P848318  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB4D-827-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32539 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

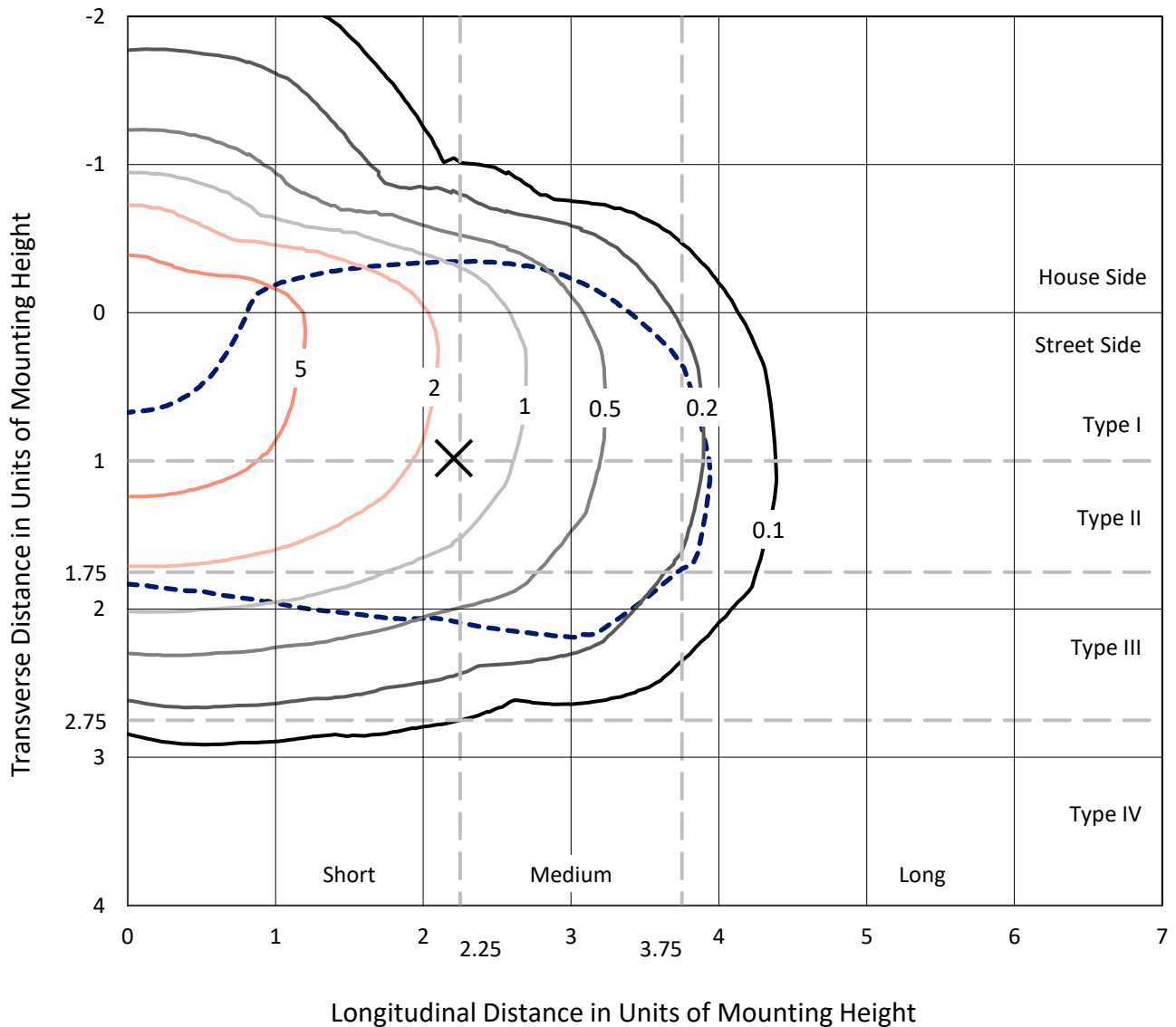
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

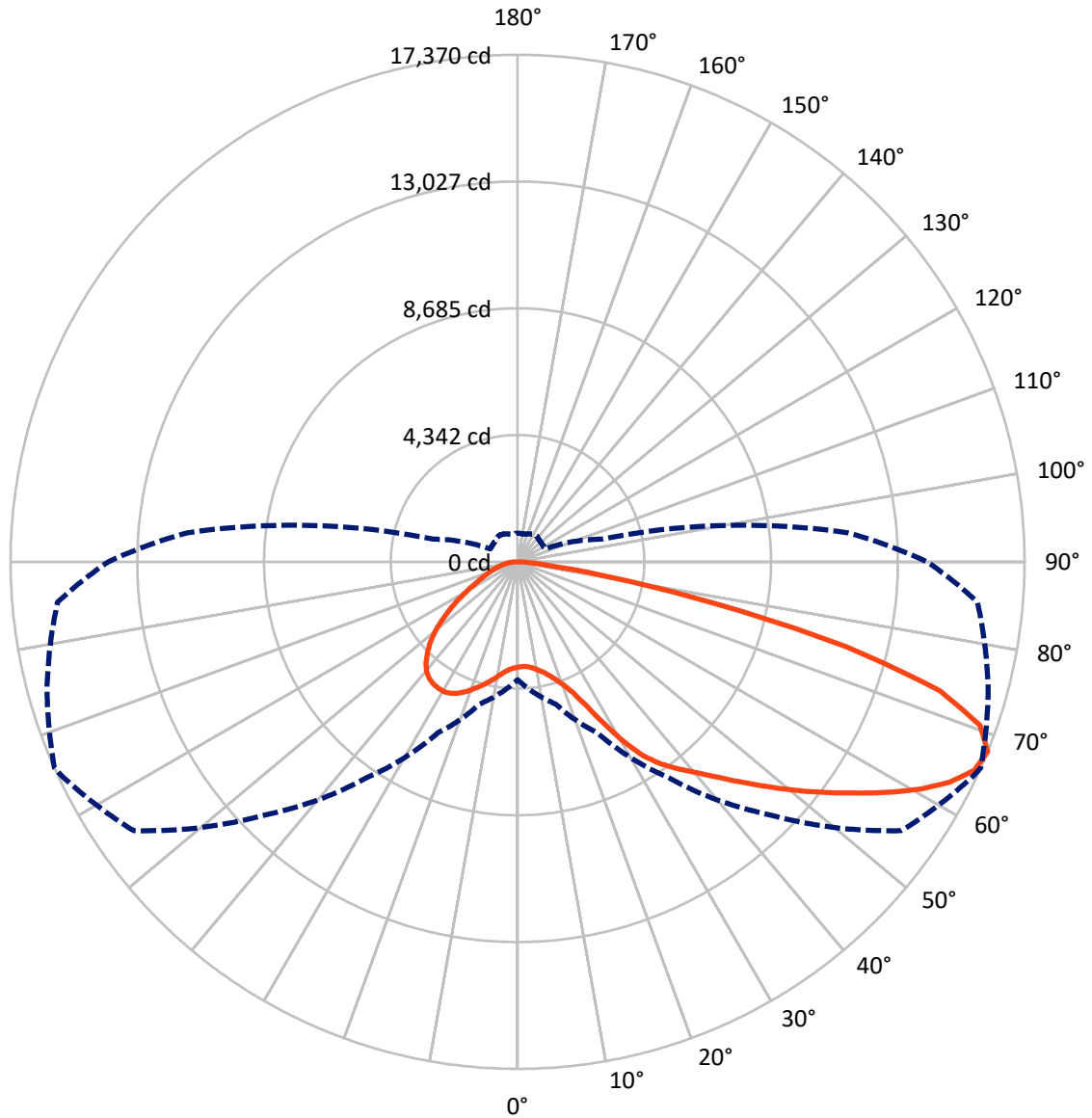
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8090.7	0.0	8090.7
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	24448.3	0.0	24448.3
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	32539.0	0.0	32539.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	357.8	1.1
10°-20°	1182.2	3.6
20°-30°	2278.6	7.0
30°-40°	3995.2	12.3
40°-50°	5939.6	18.3
50°-60°	7529.0	23.1
60°-70°	7366.9	22.6
70°-80°	3514.1	10.8
80°-90°	375.6	1.2
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°	32539.0	100.0
0°-180°	32539.0	100.0

**Coefficient of Utilization**

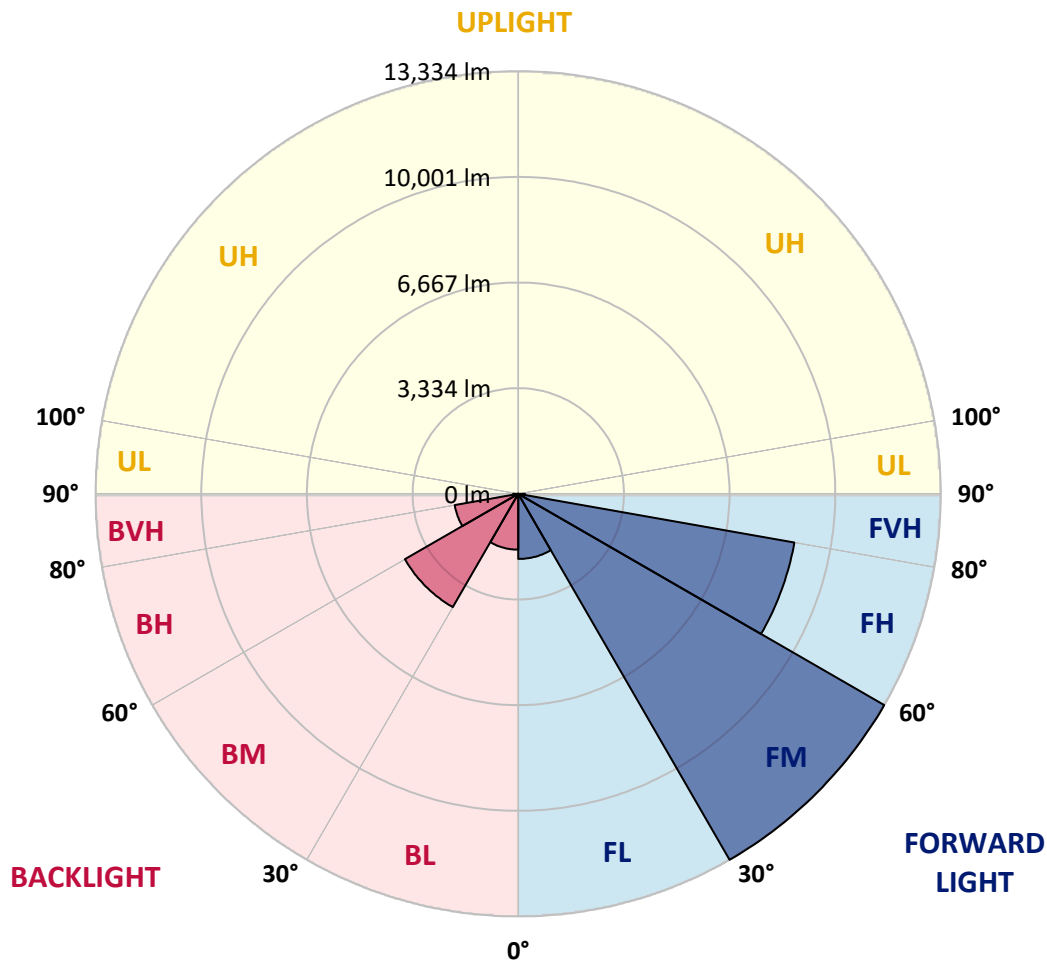


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2056.1	6.3			
FM (30°-60°)	13334.2	41.0			
FH (60°-80°)	8845.0	27.2			G4/12000
FVH (80°-90°)	212.9	0.7			G2/225
BL (0°-30°)	1762.5	5.4	B3/2500		
BM (30°-60°)	4129.6	12.7	B3/5000		
BH (60°-80°)	2036.0	6.3	B3/2500		G3/2500
BVH (80°-90°)	162.6	0.5			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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3609.0	3609.0	3609.0	3609.0	3609.0	3609.0	3609.0	3609.0	3609.0	3609.0
2.5°	3571.4	3591.9	3586.8	3578.2	3576.5	3579.9	3585.1	3590.2	3588.5	3597.0
5°	3561.1	3581.7	3579.9	3579.9	3586.8	3600.5	3609.0	3617.6	3609.0	3619.3
7.5°	3568.0	3583.4	3590.2	3597.0	3614.1	3639.8	3660.3	3679.1	3668.8	3680.8
10°	3655.2	3667.1	3674.0	3674.0	3685.9	3715.0	3735.5	3769.7	3761.2	3780.0
12.5°	3814.2	3826.1	3826.1	3819.3	3827.8	3846.6	3853.5	3891.1	3875.7	3906.5
15°	4009.1	4033.0	4014.2	4002.2	4005.6	4024.4	4022.7	4051.8	4036.4	4062.1
17.5°	4224.5	4255.2	4224.5	4222.8	4215.9	4236.4	4238.1	4263.8	4236.4	4255.2
20°	4479.2	4521.9	4496.3	4504.8	4489.5	4498.0	4506.6	4544.2	4501.4	4515.1
22.5°	4838.2	4889.5	4862.2	4894.6	4884.4	4877.5	4875.8	4942.5	4875.8	4881.0
25°	5361.4	5422.9	5375.0	5419.5	5419.5	5441.7	5467.4	5552.8	5441.7	5409.2
27.5°	6134.1	6195.7	6101.6	6129.0	6120.4	6175.1	6147.8	6359.8	6240.1	6187.1
30°	7064.1	7173.6	6995.8	6988.9	6980.4	7067.6	7106.9	7247.1	7125.7	7072.7
32.5°	8069.4	8183.9	7972.0	7910.4	7877.9	7930.9	7898.4	8011.3	7927.5	7845.4
35°	9132.8	9245.6	9043.9	8924.2	8794.3	8683.2	8566.9	8596.0	8517.3	8392.5
37.5°	10138.0	10344.9	10131.2	10003.0	9763.6	9546.5	9221.7	9086.6	9013.1	8898.6
40°	11162.1	11280.1	11117.7	11008.2	10748.4	10408.2	9888.4	9602.9	9503.8	9392.6
42.5°	11916.0	12028.9	11941.7	11866.5	11663.0	11268.1	10596.2	10238.9	10095.3	9970.5
45°	12514.4	12598.2	12543.5	12570.8	12483.6	12100.7	11329.6	10921.0	10772.3	10620.2
47.5°	12755.5	12844.4	12931.6	13094.0	13242.7	12960.6	12117.8	11659.6	11502.3	11346.7
50°	12728.1	12818.7	13071.7	13417.1	13878.7	13784.7	12948.7	12446.0	12300.7	12122.9
52.5°	12509.3	12611.9	12936.7	13511.1	14246.3	14401.8	13794.9	13258.1	13121.3	12909.3
55°	11934.8	11996.4	12483.6	13297.4	14333.4	14832.7	14624.1	14123.2	13986.4	13690.6
57.5°	10869.8	10958.7	11668.1	12721.3	14114.6	15125.0	15352.4	15032.7	14901.0	14475.3
60°	9479.8	9621.7	10433.8	11753.6	13557.3	15123.3	16014.0	15926.8	15817.4	15248.1
62.5°	7907.0	8071.1	8852.4	10385.9	12582.8	14694.2	16427.7	16675.6	16619.2	15961.0
65°	6072.6	6185.4	6963.3	8616.5	11066.4	13772.7	16475.6	17186.8	17197.1	16502.9
67.5°	4043.2	4368.1	5043.4	6465.8	9035.3	12266.5	16055.0	17270.6	17369.7	16689.3
70°	1972.9	2400.3	3061.9	4202.2	6465.8	9956.8	14955.7	16583.3	16803.8	16145.6
72.5°	818.9	957.4	1318.1	2073.8	3711.6	6718.8	12746.9	14719.8	15128.4	14306.1
75°	552.2	598.4	753.9	1063.4	1690.8	3313.2	9192.6	10975.8	11634.0	10804.8
77.5°	425.7	454.8	548.8	743.7	1005.3	1253.2	4920.3	6614.5	6954.7	6438.4
80°	335.1	357.3	410.3	541.9	712.9	670.2	1677.1	2997.0	3193.6	2679.0
82.5°	290.6	299.2	294.1	367.6	473.6	391.5	550.5	1106.1	1220.7	885.6
85°	210.3	234.2	244.5	227.4	251.3	198.3	225.7	391.5	430.8	384.7
87.5°	85.5	126.5	155.6	147.0	92.3	56.4	70.1	114.5	131.6	143.6
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°
3609.0	0°	3609.0	3609.0	3609.0	3609.0	3609.0	3609.0	3609.0	3609.0	3609.0	3609.0
3610.7	2.5°	3612.4	3624.4	3632.9	3643.2	3650.0	3660.3	3680.8	3692.8	3694.5	3703.0
3638.1	5°	3644.9	3662.0	3680.8	3708.2	3738.9	3764.6	3803.9	3831.3	3841.5	3850.1
3704.7	7.5°	3715.0	3738.9	3773.1	3821.0	3865.4	3899.6	3947.5	3980.0	4012.5	4024.4
3810.7	10°	3819.3	3853.5	3903.1	3968.0	4015.9	4060.3	4109.9	4137.3	4169.8	4183.4
3937.3	12.5°	3949.2	3985.1	4050.1	4140.7	4185.1	4215.9	4233.0	4226.2	4233.0	4245.0
4089.4	15°	4098.0	4137.3	4210.8	4308.2	4339.0	4311.7	4274.0	4239.9	4234.7	4238.1
4274.0	17.5°	4274.0	4303.1	4388.6	4470.7	4448.4	4335.6	4253.5	4198.8	4171.5	4162.9
4510.0	20°	4520.2	4520.2	4590.3	4641.6	4492.9	4301.4	4173.2	4084.3	4027.9	4003.9
4831.4	22.5°	4819.4	4792.1	4836.5	4800.6	4484.3	4205.7	4027.9	3874.0	3788.5	3754.3
5281.0	25°	5199.0	5166.5	5154.5	4932.3	4422.8	4053.5	3764.6	3578.2	3503.0	3484.2
5929.0	27.5°	5771.7	5689.6	5534.0	5004.1	4309.9	3814.2	3456.8	3284.2	3241.4	3243.1
6761.5	30°	6534.2	6370.0	5988.8	5016.0	4125.3	3475.7	3142.3	3019.2	2998.7	3007.2
7460.8	32.5°	7240.2	7084.7	6453.8	4961.3	3841.5	3144.0	2860.2	2778.1	2747.4	2757.6
7994.2	35°	7794.2	7751.4	6884.6	4884.4	3492.8	2832.8	2607.2	2537.1	2477.2	2463.6
8496.8	37.5°	8317.3	8300.2	7207.8	4776.7	3147.4	2612.3	2403.7	2311.4	2224.2	2176.3
9052.4	40°	8891.7	8874.6	7419.7	4610.8	2841.4	2420.8	2220.8	2099.4	1991.7	1904.5
9681.6	42.5°	9538.0	9437.1	7520.6	4373.2	2581.5	2258.4	2072.1	1907.9	1766.0	1685.7
10392.8	45°	10244.0	10016.7	7518.9	4070.6	2362.7	2109.7	1913.1	1680.6	1548.9	1473.7
11122.8	47.5°	10992.8	10570.6	7426.6	3735.5	2150.7	1945.5	1666.9	1489.1	1401.9	1355.7
11916.0	50°	11765.6	11088.6	7269.3	3350.9	1933.6	1759.2	1513.0	1391.6	1325.0	1282.2
12702.5	52.5°	12492.2	11558.7	7079.5	2914.9	1713.0	1578.0	1444.6	1350.6	1280.5	1232.6
13465.0	55°	13167.5	11963.9	6811.1	2468.7	1533.5	1456.6	1412.1	1333.5	1253.2	1196.7
14239.4	57.5°	13767.6	12227.2	6347.8	2049.8	1405.3	1372.8	1378.0	1304.4	1212.1	1164.3
15001.9	60°	14266.8	12420.4	5662.3	1661.7	1301.0	1290.8	1325.0	1249.7	1142.0	1087.3
15646.4	62.5°	14566.0	12417.0	4821.1	1360.9	1212.1	1215.5	1254.9	1181.3	1071.9	1020.6
15983.2	65°	14540.3	12112.6	3897.9	1164.3	1126.6	1130.1	1181.3	1106.1	1013.8	983.0
15814.0	67.5°	14025.7	11370.7	2990.1	1036.0	1032.6	1048.0	1107.8	1054.8	977.9	974.5
14805.3	70°	12632.4	9830.3	2154.1	933.5	935.2	957.4	1036.0	1022.4	959.1	965.9
12447.7	72.5°	10129.5	7495.0	1446.3	825.7	827.5	863.4	967.6	996.7	940.3	1030.9
8831.9	75°	6746.2	4674.1	930.0	711.2	712.9	759.1	907.8	947.1	889.0	1027.5
4595.5	77.5°	3241.4	2101.1	673.6	598.4	598.4	641.1	784.7	848.0	757.4	798.4
1477.1	80°	1119.8	789.8	530.0	482.1	471.9	500.9	661.6	735.1	653.1	601.8
482.1	82.5°	441.1	410.3	425.7	374.4	340.2	359.0	514.6	606.9	480.4	434.2
271.8	85°	253.0	266.7	300.9	247.9	196.6	220.5	377.8	436.0	362.4	319.7
88.9	87.5°	68.4	94.0	138.5	128.2	88.9	94.0	179.5	241.1	208.6	160.7
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



180°
3609.0
3701.3
3848.4
4026.2
4190.3
4248.4
4250.1
4174.9
3998.8
3749.2
3487.6
3248.3
3036.3
2771.3
2473.8
2178.1
1913.1
1690.8
1470.3
1345.5
1266.8
1212.1
1174.5
1133.5
1063.4
1005.3
981.3
979.6
964.2
1044.6
1036.0
731.7
564.2
432.5
326.5
165.8
0.0

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