

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: P848828

Luminaire Tested: **GLAN-SB5C-827-U-T3**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P848828  
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-SB5C-827-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30183 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

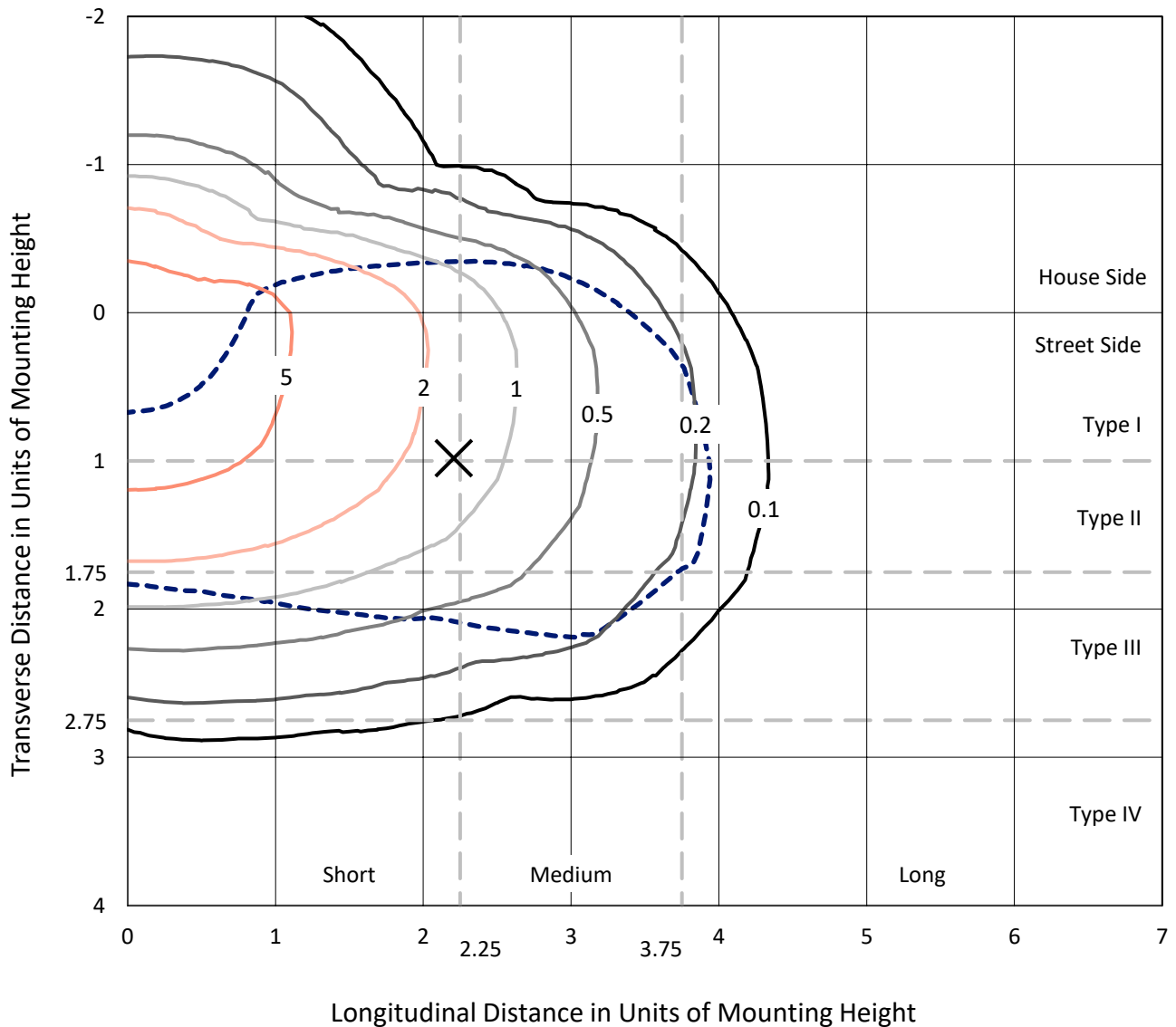
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

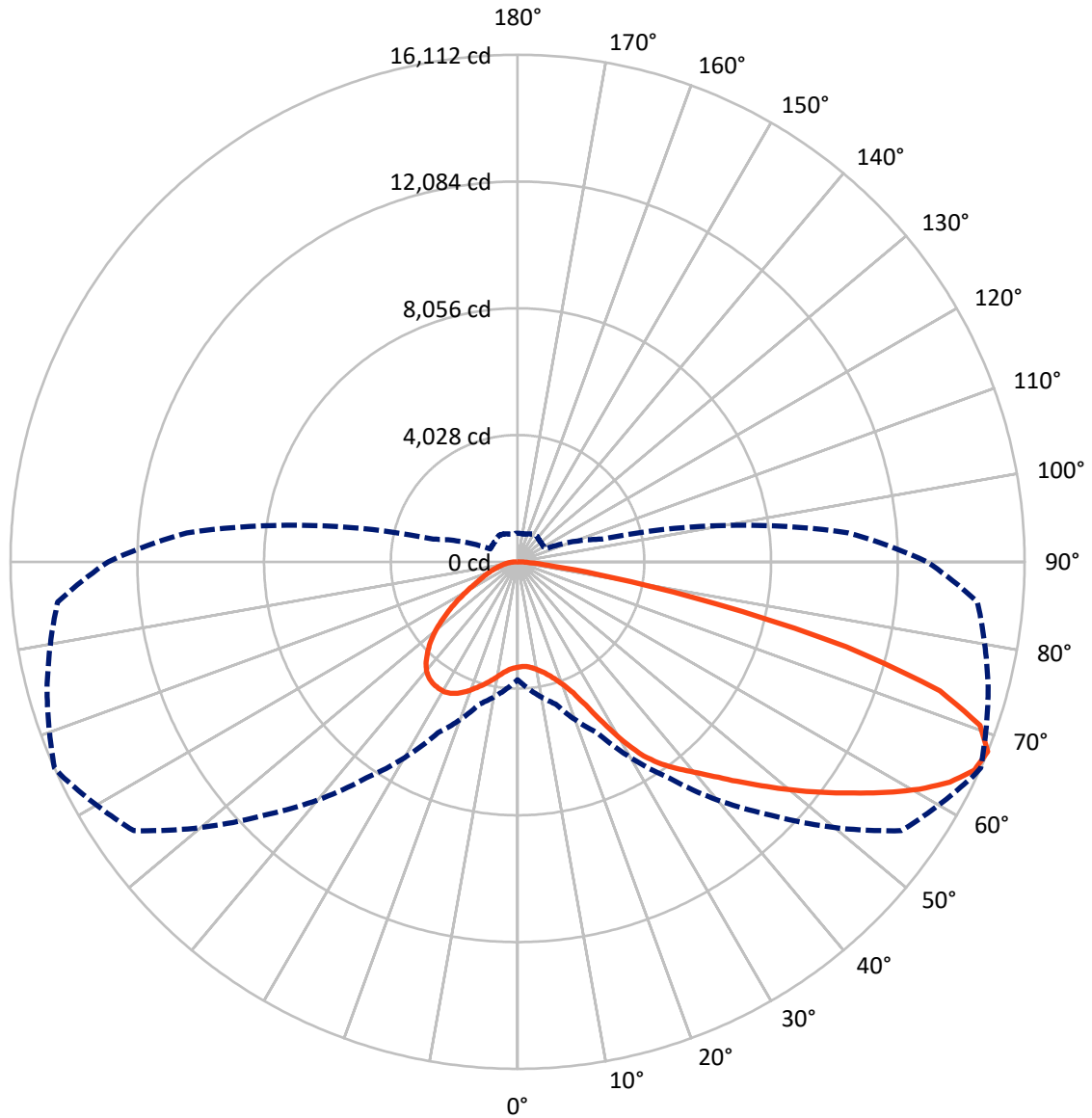
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type 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	7504.9	0.0	7504.9
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	22678.1	0.0	22678.1
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	30183.0	0.0	30183.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.9	1.1
10°-20°	1096.6	3.6
20°-30°	2113.6	7.0
30°-40°	3706.0	12.3
40°-50°	5509.5	18.3
50°-60°	6983.9	23.1
60°-70°	6833.5	22.6
70°-80°	3259.7	10.8
80°-90°	348.4	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°	30183.0	100.0
0°-180°	30183.0	100.0

**Coefficient of Utilization**



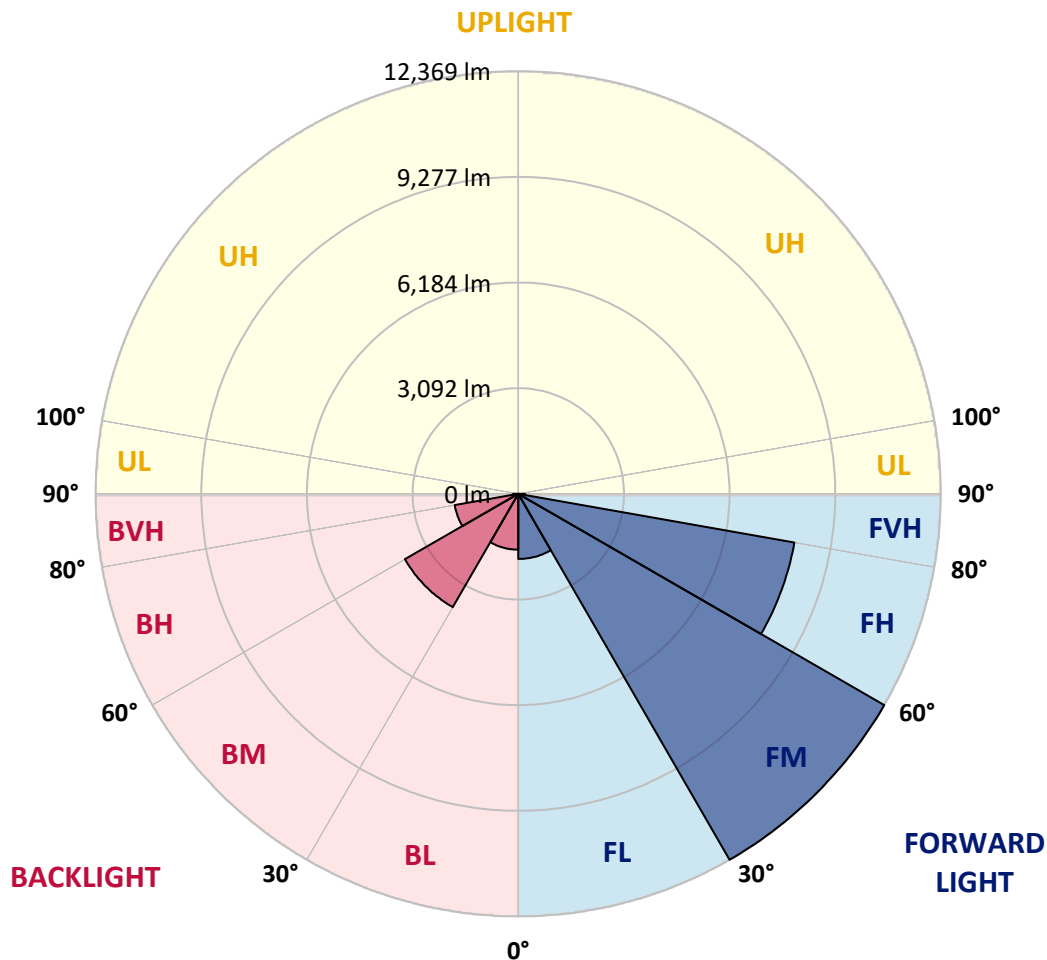
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 CATALOG NUMBER: GLAN-SB5C-827-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1907.3	6.3			
FM (30°-60°)	12368.7	41.0			
FH (60°-80°)	8204.6	27.2			G4/12000
FVH (80°-90°)	197.5	0.7			G2/225
BL (0°-30°)	1634.8	5.4	B3/2500		
BM (30°-60°)	3830.6	12.7	B3/5000		
BH (60°-80°)	1888.6	6.3	B3/2500		G3/2500
BVH (80°-90°)	150.9	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°	3347.7	3347.7	3347.7	3347.7	3347.7	3347.7	3347.7	3347.7	3347.7	3347.7
2.5°	3312.8	3331.8	3327.1	3319.1	3317.6	3320.7	3325.5	3330.2	3328.7	3336.6
5°	3303.3	3322.3	3320.7	3320.7	3327.1	3339.8	3347.7	3355.6	3347.7	3357.2
7.5°	3309.6	3323.9	3330.2	3336.6	3352.5	3376.2	3395.3	3412.7	3403.2	3414.3
10°	3390.5	3401.6	3408.0	3408.0	3419.1	3446.0	3465.0	3496.8	3488.8	3506.3
12.5°	3538.0	3549.1	3549.1	3542.8	3550.7	3568.1	3574.5	3609.4	3595.1	3623.6
15°	3718.8	3741.0	3723.5	3712.4	3715.6	3733.1	3731.5	3758.4	3744.2	3767.9
17.5°	3918.6	3947.1	3918.6	3917.0	3910.7	3929.7	3931.3	3955.1	3929.7	3947.1
20°	4154.9	4194.5	4170.7	4178.7	4164.4	4172.3	4180.3	4215.1	4175.5	4188.2
22.5°	4487.9	4535.5	4510.1	4540.2	4530.7	4524.4	4522.8	4584.6	4522.8	4527.6
25°	4973.2	5030.3	4985.9	5027.1	5027.1	5047.7	5071.5	5150.8	5047.7	5017.6
27.5°	5690.0	5747.1	5659.8	5685.2	5677.3	5728.0	5702.7	5899.3	5788.3	5739.1
30°	6552.7	6654.2	6489.2	6482.9	6475.0	6555.8	6592.3	6722.3	6609.8	6560.6
32.5°	7485.1	7591.4	7394.7	7337.6	7307.5	7356.7	7326.5	7431.2	7353.5	7277.4
35°	8471.5	8576.2	8389.1	8278.0	8157.5	8054.4	7946.6	7973.6	7900.6	7784.9
37.5°	9404.0	9595.9	9397.6	9278.7	9056.7	8855.3	8554.0	8428.7	8360.5	8254.3
40°	10353.9	10463.3	10312.7	10211.2	9970.1	9654.6	9172.5	8907.6	8815.6	8712.6
42.5°	11053.3	11157.9	11077.0	11007.3	10818.6	10452.2	9829.0	9497.6	9364.3	9248.6
45°	11608.3	11686.0	11635.3	11660.6	11579.8	11224.5	10509.3	10130.3	9992.3	9851.2
47.5°	11831.9	11914.4	11995.2	12145.9	12283.9	12022.2	11240.4	10815.4	10669.5	10525.2
50°	11806.5	11890.6	12125.3	12445.6	12873.8	12786.6	12011.1	11544.9	11410.1	11245.1
52.5°	11603.5	11698.7	12000.0	12532.8	13214.7	13359.1	12796.1	12298.1	12171.3	11974.6
55°	11070.7	11127.8	11579.8	12334.6	13295.6	13758.7	13565.2	13100.6	12973.7	12699.4
57.5°	10082.7	10165.2	10823.3	11800.2	13092.6	14029.9	14240.8	13944.2	13822.1	13427.2
60°	8793.4	8925.1	9678.3	10902.6	12575.7	14028.3	14854.5	14773.6	14672.1	14144.0
62.5°	7334.5	7486.7	8211.4	9633.9	11671.7	13630.2	15238.3	15468.2	15415.9	14805.3
65°	5632.9	5737.5	6459.1	7992.6	10265.1	12775.5	15282.7	15942.4	15951.9	15308.0
67.5°	3750.5	4051.8	4678.2	5997.6	8381.1	11378.4	14892.6	16020.1	16112.1	15480.9
70°	1830.1	2226.5	2840.2	3898.0	5997.6	9235.9	13872.9	15382.6	15587.2	14976.6
72.5°	759.6	888.1	1222.7	1923.6	3442.8	6232.3	11824.0	13654.0	14033.0	13270.3
75°	512.2	555.0	699.4	986.4	1568.4	3073.3	8527.0	10181.0	10791.6	10022.5
77.5°	394.9	421.8	509.1	689.8	932.5	1162.4	4564.0	6135.6	6451.2	5972.2
80°	310.8	331.4	380.6	502.7	661.3	621.6	1555.7	2780.0	2962.3	2485.0
82.5°	269.6	277.5	272.8	341.0	439.3	363.2	510.6	1026.0	1132.3	821.5
85°	195.1	217.3	226.8	210.9	233.1	184.0	209.3	363.2	399.6	356.8
87.5°	79.3	117.4	144.3	136.4	85.6	52.3	65.0	106.3	122.1	133.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P848828  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3347.7	0°	3347.7	3347.7	3347.7	3347.7	3347.7	3347.7	3347.7	3347.7	3347.7	3347.7
3349.3	2.5°	3350.9	3362.0	3369.9	3379.4	3385.8	3395.3	3414.3	3425.4	3427.0	3434.9
3374.7	5°	3381.0	3396.9	3414.3	3439.7	3468.2	3492.0	3528.5	3553.9	3563.4	3571.3
3436.5	7.5°	3446.0	3468.2	3499.9	3544.3	3585.6	3617.3	3661.7	3691.8	3722.0	3733.1
3534.8	10°	3542.8	3574.5	3620.5	3680.7	3725.1	3766.4	3812.3	3837.7	3867.8	3880.5
3652.2	12.5°	3663.3	3696.6	3756.8	3840.9	3882.1	3910.7	3926.5	3920.2	3926.5	3937.6
3793.3	15°	3801.2	3837.7	3905.9	3996.3	4024.8	3999.5	3964.6	3932.9	3928.1	3931.3
3964.6	17.5°	3964.6	3991.5	4070.8	4147.0	4126.3	4021.7	3945.6	3894.8	3869.4	3861.5
4183.4	20°	4192.9	4192.9	4258.0	4305.5	4167.6	3990.0	3871.0	3788.6	3736.2	3714.0
4481.6	22.5°	4470.5	4445.1	4486.3	4453.0	4159.6	3901.1	3736.2	3593.5	3514.2	3482.5
4898.6	25°	4822.5	4792.4	4781.3	4575.1	4102.6	3760.0	3492.0	3319.1	3249.4	3231.9
5499.7	27.5°	5353.8	5277.7	5133.3	4641.7	3997.9	3538.0	3206.6	3046.4	3006.7	3008.3
6272.0	30°	6061.1	5908.8	5555.2	4652.8	3826.6	3224.0	2914.8	2800.6	2781.6	2789.5
6920.6	32.5°	6716.0	6571.7	5986.5	4602.1	3563.4	2916.3	2653.1	2577.0	2548.4	2557.9
7415.4	35°	7229.8	7190.2	6386.1	4530.7	3239.9	2627.7	2418.4	2353.4	2297.9	2285.2
7881.6	37.5°	7715.1	7699.2	6685.9	4430.8	2919.5	2423.2	2229.7	2144.0	2063.2	2018.8
8397.0	40°	8247.9	8232.1	6882.5	4277.0	2635.7	2245.5	2060.0	1947.4	1847.5	1766.6
8980.6	42.5°	8847.4	8753.8	6976.1	4056.6	2394.6	2094.9	1922.0	1769.8	1638.2	1563.6
9640.3	45°	9502.3	9291.4	6974.5	3775.9	2191.6	1956.9	1774.5	1558.9	1436.8	1367.0
10317.4	47.5°	10196.9	9805.2	6888.9	3465.0	1995.0	1804.7	1546.2	1381.3	1300.4	1257.6
11053.3	50°	10913.7	10285.7	6743.0	3108.2	1793.6	1631.8	1403.5	1290.9	1229.0	1189.4
11782.7	52.5°	11587.7	10721.8	6566.9	2703.8	1589.0	1463.7	1340.0	1252.8	1187.8	1143.4
12490.0	55°	12214.1	11097.7	6318.0	2289.9	1422.5	1351.1	1309.9	1236.9	1162.4	1110.1
13208.4	57.5°	12770.7	11341.9	5888.2	1901.4	1303.6	1273.4	1278.2	1210.0	1124.4	1080.0
13915.7	60°	13233.8	11521.1	5252.3	1541.4	1206.8	1197.3	1229.0	1159.2	1059.3	1008.6
14513.5	62.5°	13511.3	11517.9	4472.0	1262.3	1124.4	1127.5	1164.0	1095.8	994.3	946.7
14826.0	65°	13487.5	11235.6	3615.7	1080.0	1045.1	1048.2	1095.8	1026.0	940.4	911.9
14669.0	67.5°	13010.2	10547.4	2773.6	961.0	957.8	972.1	1027.6	978.5	907.1	903.9
13733.3	70°	11717.7	9118.5	1998.1	865.9	867.5	888.1	961.0	948.3	889.7	896.0
11546.5	72.5°	9396.1	6952.3	1341.6	766.0	767.5	800.8	897.6	924.5	872.2	956.3
8192.4	75°	6257.7	4335.7	862.7	659.7	661.3	704.1	842.1	878.6	824.6	953.1
4262.7	77.5°	3006.7	1949.0	624.8	555.0	555.0	594.7	727.9	786.6	702.5	740.6
1370.2	80°	1038.7	732.7	491.6	447.2	437.7	464.6	613.7	681.9	605.8	558.2
447.2	82.5°	409.1	380.6	394.9	347.3	315.6	333.0	477.3	563.0	445.6	402.8
252.1	85°	234.7	247.4	279.1	229.9	182.4	204.6	350.5	404.4	336.2	296.6
82.5	87.5°	63.4	87.2	128.5	118.9	82.5	87.2	166.5	223.6	193.5	149.1
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>
3347.7
3433.3
3569.7
3734.6
3886.9
3940.8
3942.4
3872.6
3709.3
3477.7
3235.1
3013.1
2816.4
2570.6
2294.7
2020.4
1774.5
1568.4
1363.8
1248.1
1175.1
1124.4
1089.5
1051.4
986.4
932.5
910.3
908.7
894.4
968.9
961.0
678.7
523.3
401.2
302.9
153.8
0.0

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