

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: P850866

Luminaire Tested: **GLAN-SB8C-827-U-T2**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P850866  
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-SB8C-827-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47842 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

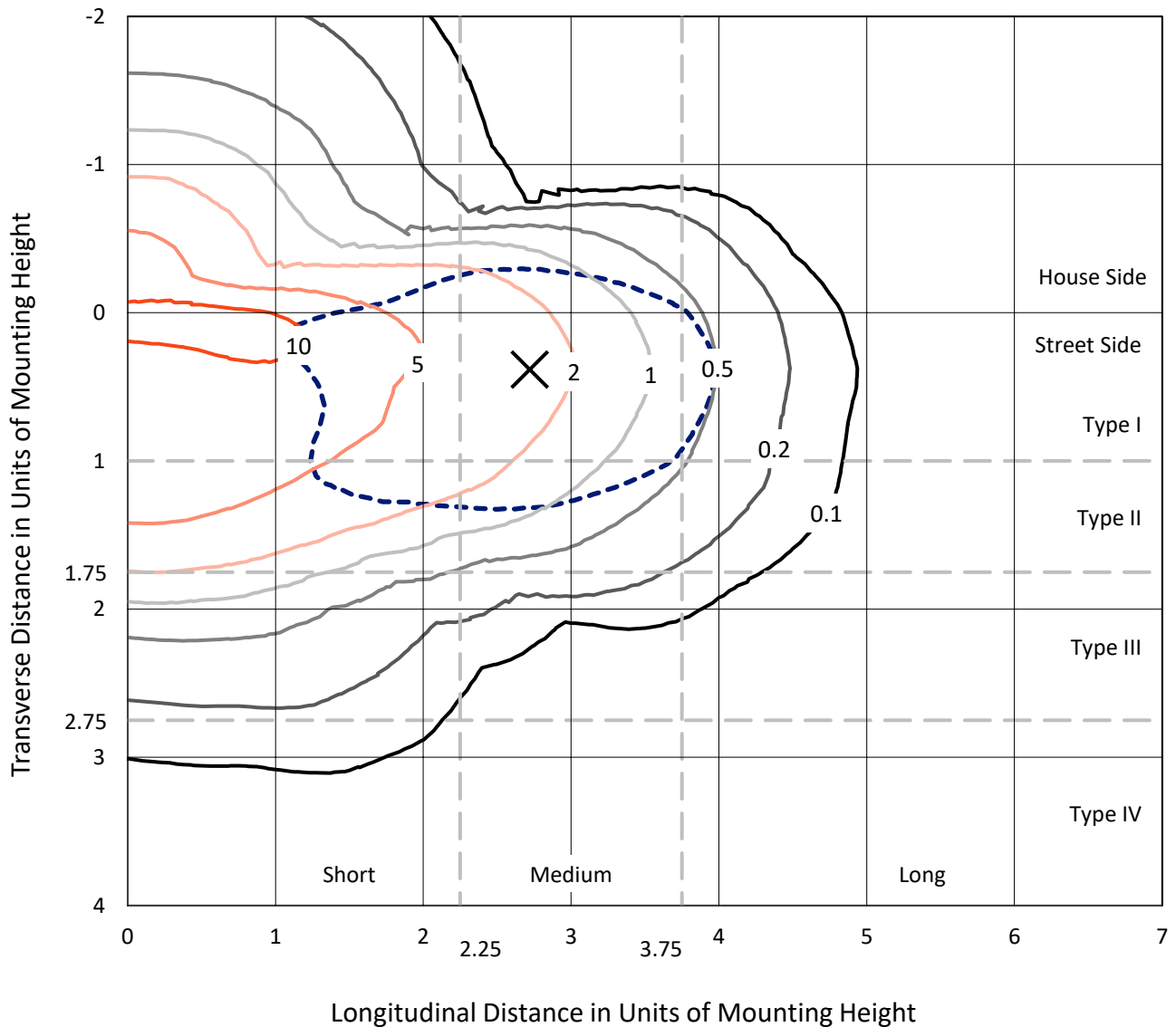
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

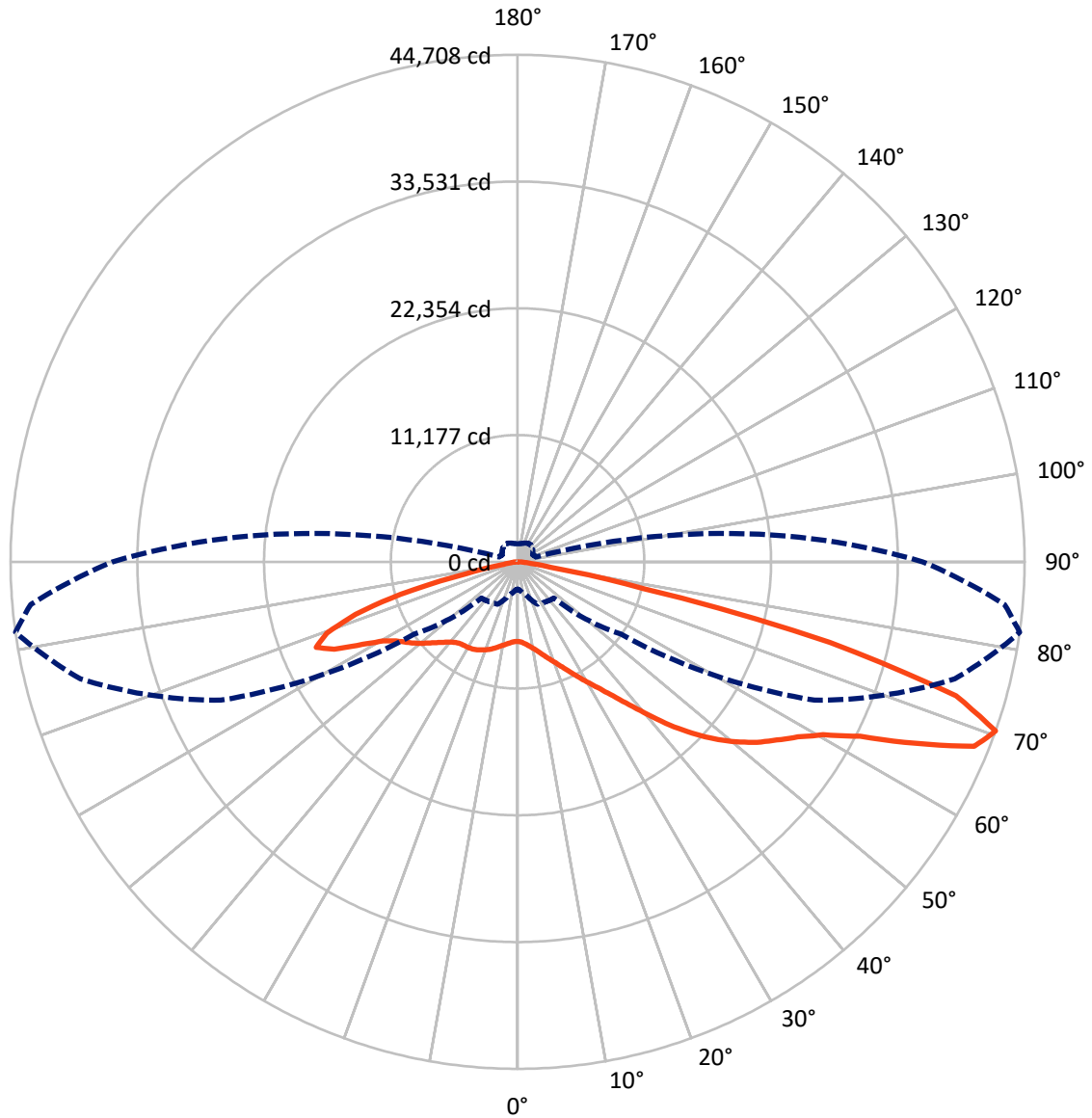
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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
<b>House Side</b>	Lumens	11794.2	0.0	11794.2
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	36047.8	0.0	36047.8
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	47842.0	0.0	47842.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	662.3	1.4
10°-20°	1902.7	4.0
20°-30°	3183.1	6.7
30°-40°	4972.8	10.4
40°-50°	7919.8	16.6
50°-60°	11021.3	23.0
60°-70°	11528.8	24.1
70°-80°	6025.6	12.6
80°-90°	625.7	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°	47842.0	100.0
0°-180°	47842.0	100.0

**Coefficient of Utilization**

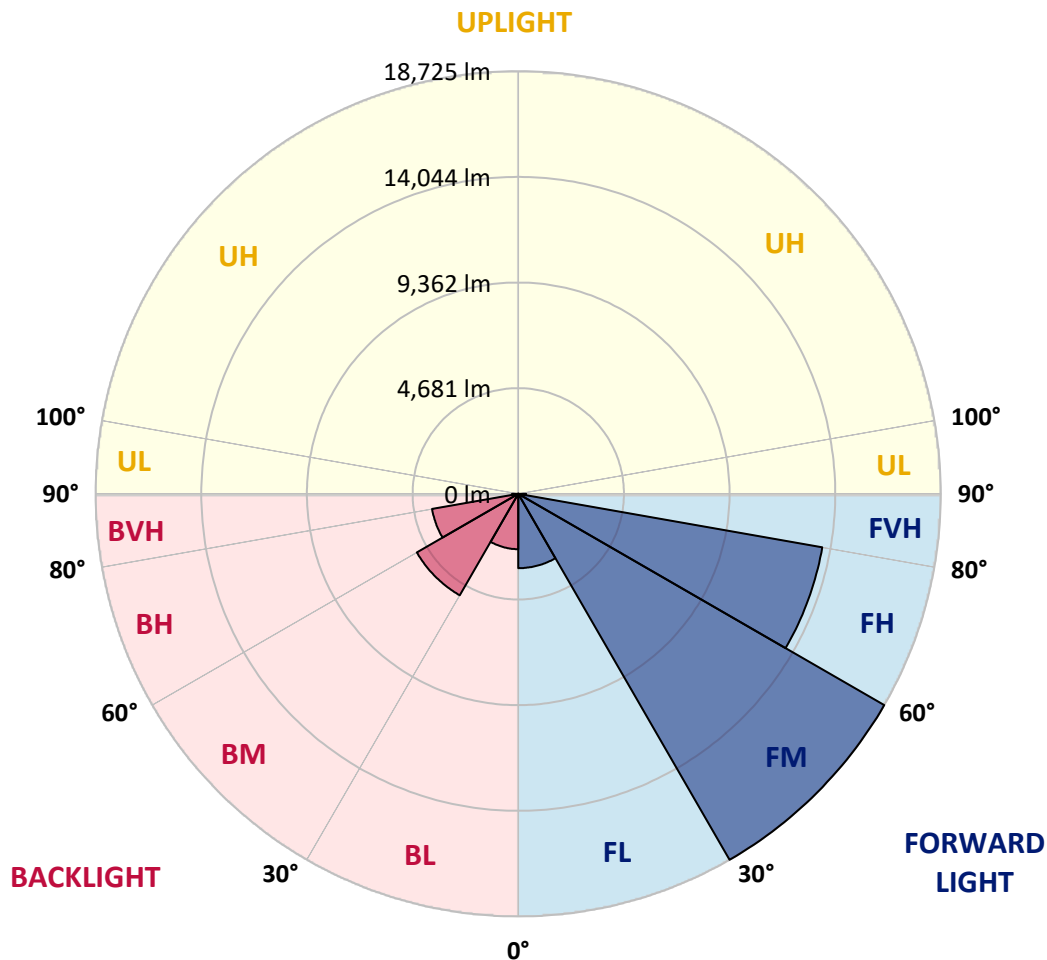


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3294.5	6.9			
FM (30°-60°)	18724.9	39.1			
FH (60°-80°)	13678.2	28.6			G5
FVH (80°-90°)	350.3	0.7			G3/500
BL (0°-30°)	2453.6	5.1	B3/2500		
BM (30°-60°)	5189.0	10.8	B4/8500		
BH (60°-80°)	3876.2	8.1	B4/5000		G4/5000
BVH (80°-90°)	275.4	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	7014.2	7014.2	7014.2	7014.2	7014.2	7014.2	7014.2	7014.2	7014.2	7014.2
2.5°	7181.8	7222.4	7209.7	7197.0	7197.0	7179.2	7176.7	7151.3	7131.0	7098.0
5°	7273.2	7316.3	7311.3	7321.4	7354.4	7362.0	7369.6	7354.4	7313.8	7273.2
7.5°	7191.9	7240.2	7255.4	7316.3	7417.9	7509.3	7577.8	7605.7	7567.7	7509.3
10°	6917.8	6971.1	7024.4	7169.1	7349.3	7565.1	7747.9	7857.1	7849.4	7793.6
12.5°	6361.8	6417.7	6531.9	6813.7	7143.7	7524.5	7864.7	8093.2	8171.9	8131.2
15°	5917.5	5965.8	6052.1	6341.5	6770.5	7349.3	7907.8	8352.1	8552.6	8529.8
17.5°	5904.9	5925.2	5978.5	6115.6	6445.6	7075.2	7862.1	8606.0	8989.3	8986.8
20°	6128.3	6135.9	6166.3	6194.3	6382.1	6867.0	7745.4	8816.7	9479.2	9479.2
22.5°	6438.0	6432.9	6463.4	6438.0	6529.4	6849.2	7671.7	9002.0	10025.1	10065.7
25°	6902.5	6877.1	6869.5	6811.1	6828.9	7014.2	7753.0	9212.7	10672.4	10756.2
27.5°	7522.0	7481.3	7453.4	7318.9	7273.2	7354.4	8001.8	9466.6	11393.4	11538.1
30°	8329.2	8255.6	8215.0	7981.5	7816.4	7829.1	8377.5	9804.2	12147.3	12380.9
32.5°	9431.0	9316.8	9207.6	8824.3	8522.2	8423.2	8862.4	10271.3	12964.8	13338.0
35°	10664.8	10573.4	10456.6	9865.1	9400.5	9172.1	9517.3	10923.7	13921.8	14513.3
37.5°	11852.9	11774.2	11830.0	11032.9	10433.8	10101.2	10375.4	11799.6	15102.3	15975.6
40°	13081.6	13020.6	13028.3	12266.7	11568.5	11195.4	11416.2	12898.8	16455.4	17714.6
42.5°	14416.9	14371.2	14218.9	13543.6	12759.2	12411.4	12614.5	14168.1	17907.5	19694.7
45°	15912.1	15884.2	15742.0	14967.8	14069.1	13678.1	13952.3	15569.4	19367.2	21558.0
47.5°	17204.3	17227.1	17209.4	16556.9	15625.3	15051.5	15379.0	17031.7	20725.4	23309.7
50°	17826.3	17945.6	18120.7	17917.7	17338.8	16755.0	16818.4	18443.1	22020.1	24952.2
52.5°	17501.3	17727.3	18204.5	18529.5	18752.9	18631.0	18460.9	19844.5	23238.6	26434.8
55°	16290.4	16607.7	17399.8	18184.2	19324.1	20210.0	20433.4	21398.1	24426.7	27739.6
57.5°	14084.3	14599.7	15310.5	16897.1	18816.3	20974.2	22733.4	23553.4	25685.9	29133.3
60°	10301.8	10992.3	11875.7	14236.6	17039.3	20565.4	24690.7	26863.8	27475.6	30938.3
62.5°	6592.8	7019.3	7831.7	10055.5	13277.0	18471.1	25289.8	31001.8	30509.3	33898.3
65°	4513.7	4787.9	5531.7	6780.7	8583.1	13749.2	23685.4	34104.0	35327.6	38589.7
67.5°	3279.9	3488.1	4122.7	5216.9	5592.6	8136.3	18379.7	33961.8	40011.4	43423.3
70°	2391.4	2538.6	3071.7	4122.7	4303.0	4526.4	11134.4	28869.3	39909.8	44707.8
72.5°	1772.0	1873.5	2231.5	3198.7	3483.0	3056.5	5511.4	20981.8	34294.4	40437.8
75°	1282.0	1358.2	1622.2	2447.2	2787.4	2327.9	2749.3	12261.6	23921.5	28445.4
77.5°	979.9	1038.3	1210.9	1792.3	2231.5	1746.6	1706.0	5640.8	11342.6	11398.4
80°	787.0	825.1	919.0	1261.7	1711.0	1307.4	1111.9	2277.2	3584.5	3033.7
82.5°	578.8	642.3	776.8	886.0	1223.6	901.2	677.8	1150.0	1363.2	1172.8
85°	330.0	373.2	469.6	634.7	781.9	550.9	388.4	510.3	634.7	520.4
87.5°	116.8	152.3	165.0	248.8	340.2	228.5	149.8	147.2	208.2	154.9
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°
7014.2	0°	7014.2	7014.2	7014.2	7014.2	7014.2	7014.2	7014.2	7014.2	7014.2	7014.2
7090.4	2.5°	7065.0	7052.3	7001.5	6933.0	6861.9	6793.4	6770.5	6722.3	6689.3	6671.5
7255.4	5°	7207.2	7166.6	7047.2	6894.9	6735.0	6562.4	6440.5	6328.8	6247.6	6171.4
7481.3	7.5°	7410.3	7339.2	7133.6	6867.0	6582.7	6295.8	6082.6	5920.1	5810.9	5739.8
7745.4	10°	7646.4	7537.2	7222.4	6823.8	6384.7	5973.4	5722.1	5582.4	5513.9	5475.8
8047.5	12.5°	7918.0	7763.1	7313.8	6724.8	6082.6	5612.9	5440.3	5399.7	5402.2	5404.7
8428.3	15°	8253.1	8037.3	7387.4	6509.0	5689.1	5336.2	5305.7	5371.7	5440.3	5473.3
8859.8	17.5°	8631.3	8326.7	7400.1	6153.6	5303.2	5158.5	5255.0	5397.1	5501.2	5546.9
9342.2	20°	9037.5	8621.2	7308.7	5651.0	4985.9	5013.8	5186.4	5369.2	5483.4	5541.8
9893.0	22.5°	9502.1	8936.0	7090.4	5123.0	4726.9	4856.4	5059.5	5237.2	5356.5	5414.9
10540.4	25°	10032.7	9288.8	6747.7	4678.7	4503.5	4678.7	4881.8	5029.0	5125.5	5178.8
11263.9	27.5°	10621.6	9656.9	6290.7	4325.8	4308.1	4495.9	4663.5	4777.7	4828.5	4869.1
12033.1	30°	11213.1	9992.0	5737.3	4059.3	4138.0	4315.7	4435.0	4485.8	4501.0	4508.6
12891.2	32.5°	11852.9	10281.5	5156.0	3838.4	3975.5	4140.5	4211.6	4234.4	4163.4	4115.1
13932.0	35°	12627.1	10591.2	4587.3	3663.2	3815.6	3957.7	3980.6	3960.3	3876.5	3777.5
15236.9	37.5°	13584.2	10977.0	4132.9	3538.9	3665.8	3759.7	3731.8	3726.7	3734.3	3617.5
16805.7	40°	14757.1	11479.7	3800.3	3442.4	3543.9	3564.2	3485.5	3528.7	3566.8	3389.1
18526.9	42.5°	16059.4	12086.4	3589.6	3376.4	3442.4	3394.1	3272.3	3320.5	3315.5	3081.9
20255.7	45°	17387.1	12746.5	3516.0	3328.1	3348.5	3252.0	3117.4	3130.1	3023.5	2812.8
21913.5	47.5°	18707.2	13454.7	3561.7	3287.5	3231.7	3122.5	3018.4	2962.6	2805.2	2647.8
23502.6	50°	20001.9	14198.6	3729.2	3206.3	3071.7	3008.3	2932.1	2833.1	2665.6	2531.0
25005.5	52.5°	21202.6	14947.5	3917.1	3071.7	2871.2	2909.3	2861.0	2746.8	2581.8	2444.7
26427.1	55°	22339.9	15696.4	3990.7	2886.4	2683.3	2823.0	2795.0	2584.3	2386.3	2274.6
27914.8	57.5°	23578.8	16597.6	3909.5	2650.3	2531.0	2724.0	2617.3	2383.8	2269.5	2185.8
29851.8	60°	25294.9	18011.6	3734.3	2358.4	2386.3	2576.7	2393.9	2297.5	2173.1	2079.1
32755.9	62.5°	28145.8	20649.2	3452.5	2069.0	2216.2	2358.4	2287.3	2190.8	2063.9	1972.5
37721.5	65°	32359.9	24315.0	2922.0	1843.0	2025.8	2145.1	2173.1	2076.6	1944.6	1848.1
42072.7	67.5°	35914.0	26615.0	2211.1	1655.2	1830.4	1972.5	2051.2	1957.3	1817.7	1723.7
43090.7	70°	35718.5	24944.6	1688.2	1469.9	1657.7	1802.4	1904.0	1830.4	1680.6	1591.7
39140.6	72.5°	31725.3	20867.5	1365.8	1282.0	1482.6	1624.7	1746.6	1690.7	1538.4	1452.1
28673.8	75°	23307.2	14812.9	1091.6	1091.6	1264.2	1439.4	1574.0	1538.4	1398.8	1337.9
12038.2	77.5°	9824.5	6214.6	855.5	906.3	1051.0	1236.3	1403.9	1416.6	1294.7	1370.9
3183.4	80°	2612.3	1713.6	652.4	713.4	825.1	1020.5	1221.1	1216.0	1084.0	1012.9
1183.0	82.5°	995.1	675.3	464.6	502.6	596.6	781.9	967.2	997.7	865.7	748.9
464.6	85°	383.3	289.4	286.9	302.1	347.8	517.9	731.1	756.5	652.4	553.4
129.5	87.5°	99.0	86.3	106.6	101.5	159.9	276.7	418.9	434.1	398.6	231.0
0.0	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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180°
7014.2
6691.8
6201.9
5755.1
5486.0
5409.8
5470.7
5557.1
5557.1
5430.1
5194.0
4884.3
4526.4
4130.4
3782.6
3625.2
3394.1
3079.4
2820.4
2647.8
2520.9
2447.2
2264.5
2178.1
2074.1
1972.5
1853.2
1726.3
1599.3
1452.1
1320.1
1243.9
941.8
748.9
571.2
330.0
0.0

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