

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: P853117

Luminaire Tested: **GLAN-SB8D-827-U-T4FT**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P853117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB8D-827-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64844 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

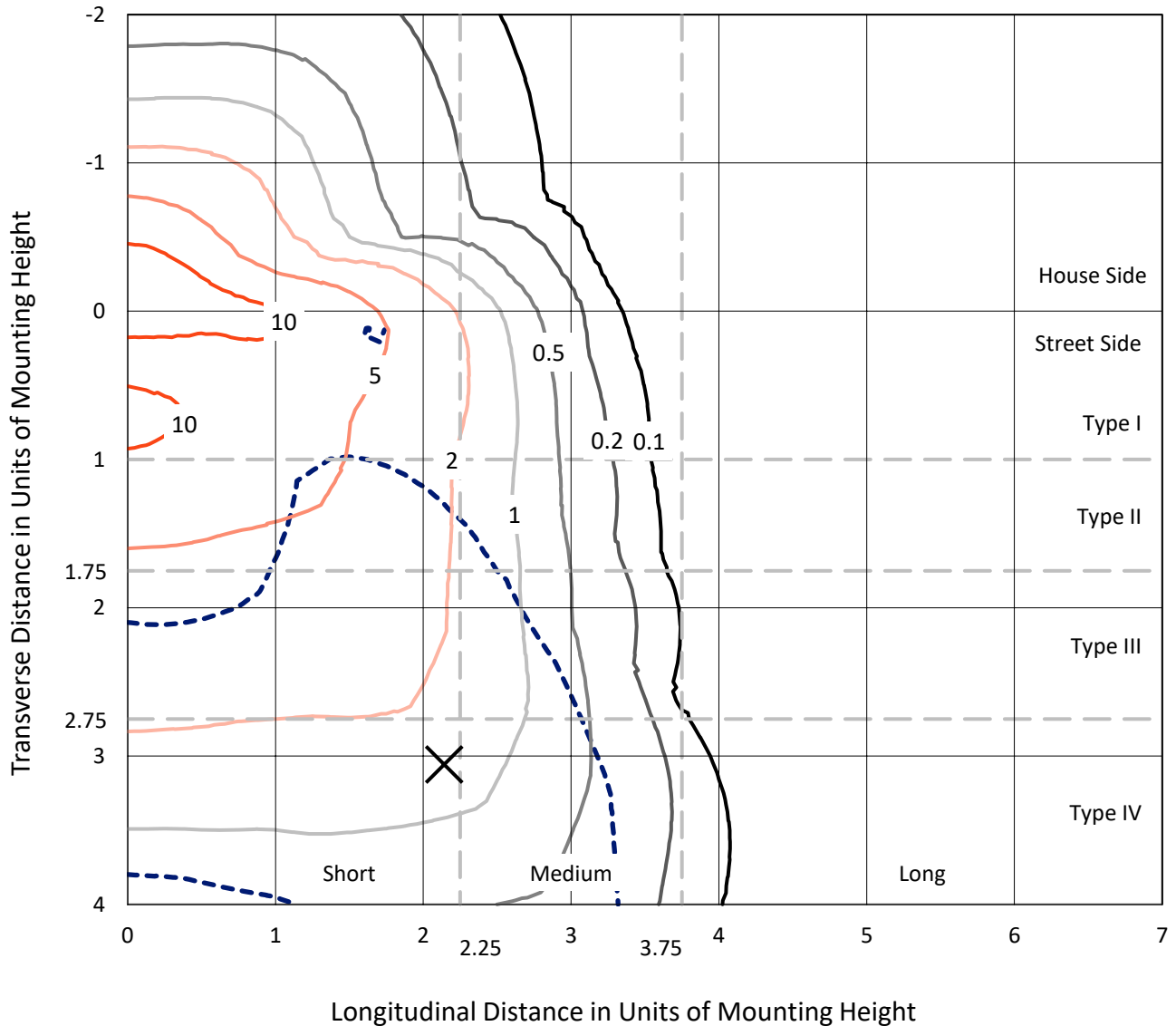
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

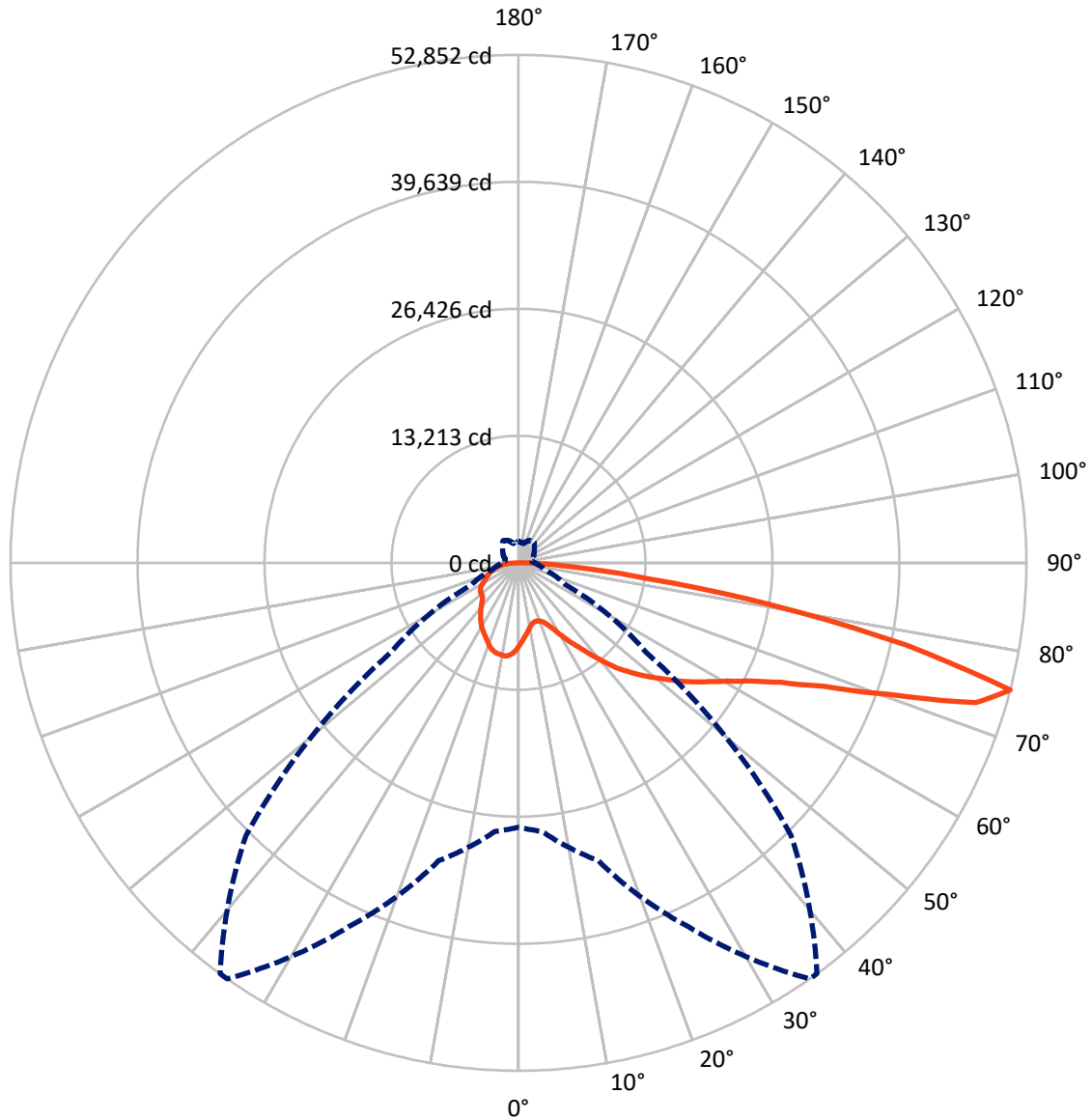
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15431.2	0.0	15431.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	49412.8	0.0	49412.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	64844.0	0.0	64844.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	818.1	1.3
10°-20°	2359.8	3.6
20°-30°	3962.7	6.1
30°-40°	6158.7	9.5
40°-50°	9141.1	14.1
50°-60°	12619.8	19.5
60°-70°	15310.7	23.6
70°-80°	12653.1	19.5
80°-90°	1819.9	2.8
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°	64844.0	100.0
0°-180°	64844.0	100.0

Coefficient of Utilization

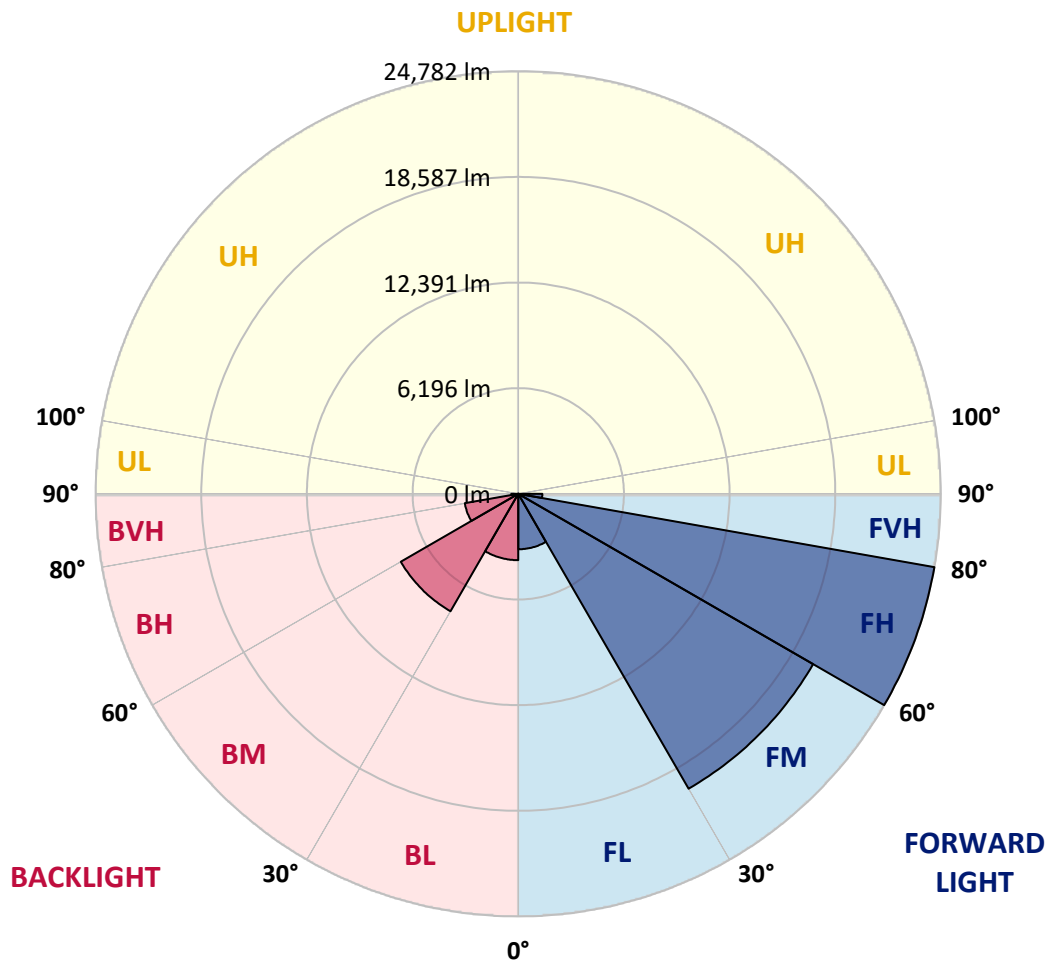


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3251.8	5.0			
FM (30°-60°)	19968.4	30.8			
FH (60°-80°)	24782.4	38.2			G5
FVH (80°-90°)	1410.1	2.2			G5
BL (0°-30°)	3888.9	6.0	B4/5000		
BM (30°-60°)	7951.1	12.3	B4/8500		
BH (60°-80°)	3181.4	4.9	B4/5000		G4/5000
BVH (80°-90°)	409.8	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	8640.9	8640.9	8640.9	8640.9	8640.9	8640.9	8640.9	8640.9	8640.9	8640.9
2.5°	7967.9	8016.9	8038.0	8027.5	8080.0	8073.0	8146.6	8237.8	8364.0	8486.7
5°	7354.4	7407.0	7452.6	7494.6	7596.3	7627.8	7743.5	7918.8	8150.1	8385.0
7.5°	6783.0	6828.6	6898.7	6975.8	7147.6	7179.1	7371.9	7645.4	7967.9	8311.4
10°	6316.8	6362.4	6436.0	6523.6	6737.4	6776.0	7021.4	7386.0	7806.6	8241.3
12.5°	6117.0	6131.0	6173.1	6260.7	6446.5	6471.0	6741.0	7158.1	7648.9	8188.7
15°	6106.5	6134.5	6138.0	6183.6	6337.8	6348.3	6597.2	7010.9	7550.7	8178.2
17.5°	6211.6	6232.7	6201.1	6229.2	6358.9	6376.4	6572.7	6940.8	7519.2	8223.8
20°	6492.1	6509.6	6414.9	6376.4	6471.0	6485.1	6677.9	6986.3	7550.7	8318.4
22.5°	7088.0	7098.5	6867.2	6709.4	6716.4	6723.4	6891.7	7172.1	7673.4	8490.2
25°	8016.9	8009.9	7641.9	7336.9	7161.6	7123.0	7235.2	7473.6	7880.2	8718.0
27.5°	9103.6	9051.0	8683.0	8227.3	7845.2	7789.1	7764.5	7866.2	8174.7	9019.5
30°	10330.5	10281.4	9885.3	9289.4	8760.1	8668.9	8437.6	8385.0	8612.9	9429.6
32.5°	11676.6	11645.1	11171.8	10449.7	9741.6	9636.4	9247.3	9107.1	9285.9	10050.1
35°	12805.4	12777.3	12384.7	11641.6	10775.7	10646.0	10249.9	10092.2	10183.3	10845.8
37.5°	13825.4	13811.4	13474.9	12889.5	11995.6	11837.9	11392.7	11340.1	11322.6	11893.9
40°	14771.9	14736.9	14386.3	14077.8	13415.3	13271.6	12879.0	12833.4	12700.2	13183.9
42.5°	15820.0	15728.9	15220.6	15076.9	14898.1	14778.9	14544.1	14551.1	14256.6	14638.7
45°	16675.4	16622.8	16100.5	16016.3	16209.1	16160.1	16363.4	16416.0	15844.6	16163.6
47.5°	17593.8	17544.7	17103.0	17043.4	17565.7	17579.8	18298.4	18315.9	17394.0	17748.0
50°	18726.0	18655.9	18217.8	18291.4	18876.8	18929.4	20243.9	20124.7	18820.7	19357.0
52.5°	19472.7	19514.8	19420.1	19539.3	20338.5	20387.6	22157.9	21852.9	20233.4	20945.0
55°	20023.1	20107.2	20401.6	20675.1	21880.9	21930.0	23963.2	23496.9	21404.2	22417.3
57.5°	20731.2	20612.0	21162.3	21695.1	23346.2	23475.9	25719.4	25081.4	22441.8	23686.2
60°	21747.7	21663.6	22091.3	22880.0	24986.8	25193.6	27577.3	26508.1	23202.5	24692.3
62.5°	23808.9	23598.6	23665.2	24362.8	27055.0	27328.4	29673.5	27752.5	23581.1	25084.9
65°	26890.2	26529.1	26192.6	26676.4	29968.0	30237.9	32039.7	28730.6	23440.9	24324.2
67.5°	30770.7	30413.2	29999.5	30455.2	34258.6	34472.5	34959.7	29280.9	22336.6	21393.7
70°	33971.2	33838.0	34332.2	36207.7	41111.8	41118.8	38703.5	28825.2	19311.5	15168.0
72.5°	33547.0	33466.4	36070.9	41868.9	49749.2	49563.4	42247.5	25375.9	13008.7	6842.6
75°	27521.2	28043.5	32078.3	41767.3	52851.5	52826.9	40077.7	16132.0	5380.8	2835.9
77.5°	14757.9	15585.2	20825.8	30837.3	41259.0	41879.5	28176.7	5643.8	2310.1	1815.8
80°	4813.0	5535.1	8300.9	15700.9	26809.6	26693.9	12076.2	2215.4	1581.0	1286.5
82.5°	2043.7	2127.8	3708.8	7414.0	13758.8	13545.0	3845.5	1272.5	1111.2	879.9
85°	799.2	893.9	1637.0	3428.3	5959.2	5829.5	1388.2	631.0	711.6	574.9
87.5°	262.9	319.0	585.4	1174.3	1854.4	1787.8	340.0	217.3	308.5	262.9
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°
8640.9	0°	8640.9	8640.9	8640.9	8640.9	8640.9	8640.9	8640.9	8640.9	8640.9	8640.9
8665.4	2.5°	8714.5	8770.6	8837.2	8935.4	9019.5	9089.6	9163.2	9208.8	9226.3	9278.9
8679.5	5°	8777.6	8900.3	9065.1	9226.3	9384.1	9478.7	9562.8	9604.9	9643.5	9671.5
8718.0	7.5°	8882.8	9040.5	9299.9	9510.2	9643.5	9720.6	9776.7	9762.6	9776.7	9783.7
8760.1	10°	8973.9	9194.8	9503.2	9703.0	9804.7	9808.2	9794.2	9745.1	9720.6	9724.1
8823.2	12.5°	9082.6	9328.0	9661.0	9829.2	9857.3	9780.2	9720.6	9636.4	9604.9	9590.9
8917.8	15°	9229.8	9510.2	9832.8	9895.8	9825.7	9727.6	9625.9	9489.2	9419.1	9363.0
9079.1	17.5°	9408.6	9717.1	9966.0	9920.4	9769.7	9608.4	9443.6	9236.8	9093.1	9033.5
9299.9	20°	9657.5	9934.4	10067.6	9867.8	9640.0	9394.6	9114.1	8861.7	8728.5	8668.9
9580.4	22.5°	9958.9	10225.4	10165.8	9776.7	9454.2	9061.6	8711.0	8525.2	8458.6	8416.6
9941.4	25°	10320.0	10547.9	10235.9	9643.5	9149.2	8619.9	8350.0	8290.4	8258.8	8227.3
10383.1	27.5°	10789.7	10912.4	10288.5	9447.2	8672.5	8150.1	8052.0	8062.5	8052.0	7999.4
10996.6	30°	11410.2	11385.7	10337.5	9128.2	8125.6	7726.0	7733.0	7778.6	7785.6	7750.5
11851.9	32.5°	12227.0	11978.1	10362.1	8714.5	7603.3	7354.4	7361.4	7410.5	7445.5	7386.0
12970.1	35°	13215.5	12668.6	10323.5	8195.7	7200.2	7000.4	6947.8	6961.8	6972.3	6916.2
14326.7	37.5°	14368.8	13443.4	10151.7	7620.8	6867.2	6653.3	6541.1	6446.5	6390.4	6337.8
15862.1	40°	15634.2	14288.2	9836.3	7059.9	6495.6	6285.2	6117.0	5938.2	5748.9	5678.8
17488.6	42.5°	16959.3	15157.5	9454.2	6523.6	6067.9	5896.1	5717.4	5458.0	5174.0	5030.3
19178.2	45°	18333.4	16047.9	9079.1	5994.3	5629.7	5556.1	5349.3	5037.3	4728.8	4546.6
20871.4	47.5°	19679.5	16889.2	8528.7	5461.5	5219.6	5300.2	5139.0	4851.5	4508.0	4220.5
22550.5	50°	20966.0	17677.9	7627.8	4921.6	4886.6	5223.1	5068.9	4655.2	4262.6	3894.5
24198.0	52.5°	22242.0	18315.9	6474.5	4430.9	4707.8	5202.1	4977.7	4522.0	4041.8	3656.2
25747.4	55°	23325.2	18645.4	5363.3	4010.2	4448.4	5023.3	4869.1	4364.3	3729.8	3319.6
26809.6	57.5°	23942.1	18379.0	4437.9	3596.6	4090.8	4728.8	4683.3	4027.7	3358.2	3042.7
27016.4	60°	23675.7	17299.3	3680.7	3235.5	3750.8	4409.8	4360.8	3694.7	3074.3	2776.3
25908.7	62.5°	22206.9	15241.6	3081.3	2920.0	3442.3	4083.8	4038.3	3438.8	2856.9	2569.5
22967.6	65°	19248.4	12398.7	2615.1	2657.1	3130.4	3691.2	3757.8	3225.0	2685.2	2404.7
17769.1	67.5°	14680.8	8980.9	2250.5	2429.3	2825.4	3305.6	3498.4	3070.8	2541.4	2275.0
10281.4	70°	8367.5	5100.4	1942.0	2208.4	2555.5	2948.1	3298.6	2948.1	2387.2	2166.4
3852.5	72.5°	3172.4	2341.6	1679.1	1987.6	2296.1	2646.6	3077.8	2755.3	2208.4	2043.7
1991.1	75°	1693.1	1426.7	1412.7	1728.2	1998.1	2352.1	2800.8	2566.0	2075.2	2159.3
1377.6	77.5°	1153.3	1009.6	1181.3	1479.3	1672.1	2026.1	2506.4	2278.5	1798.3	1791.3
953.5	80°	799.2	715.1	960.5	1191.8	1293.5	1703.6	2187.4	1956.0	1465.3	1367.1
588.9	82.5°	480.2	466.2	718.6	890.4	914.9	1314.5	1812.3	1640.5	1198.9	1044.6
350.5	85°	262.9	276.9	459.2	522.3	532.8	918.4	1419.7	1269.0	921.9	774.7
126.2	87.5°	73.6	94.6	168.3	206.8	255.9	476.7	844.8	753.7	462.7	322.5
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°
8640.9
9275.4
9678.5
9794.2
9731.1
9583.9
9380.5
9037.0
8661.9
8423.6
8227.3
8009.9
7768.0
7414.0
6954.8
6372.9
5710.4
5047.8
4532.5
4189.0
3863.0
3614.1
3284.6
3000.7
2734.2
2523.9
2359.2
2233.0
2138.3
2015.6
2229.5
1651.1
1307.5
1051.6
781.7
322.5
0.0

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