

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: P849038

Luminaire Tested: **GLAN-SB5D-850-U-T3**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P849038
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-SB5D-850-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44167 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: B4 - U0 - G5

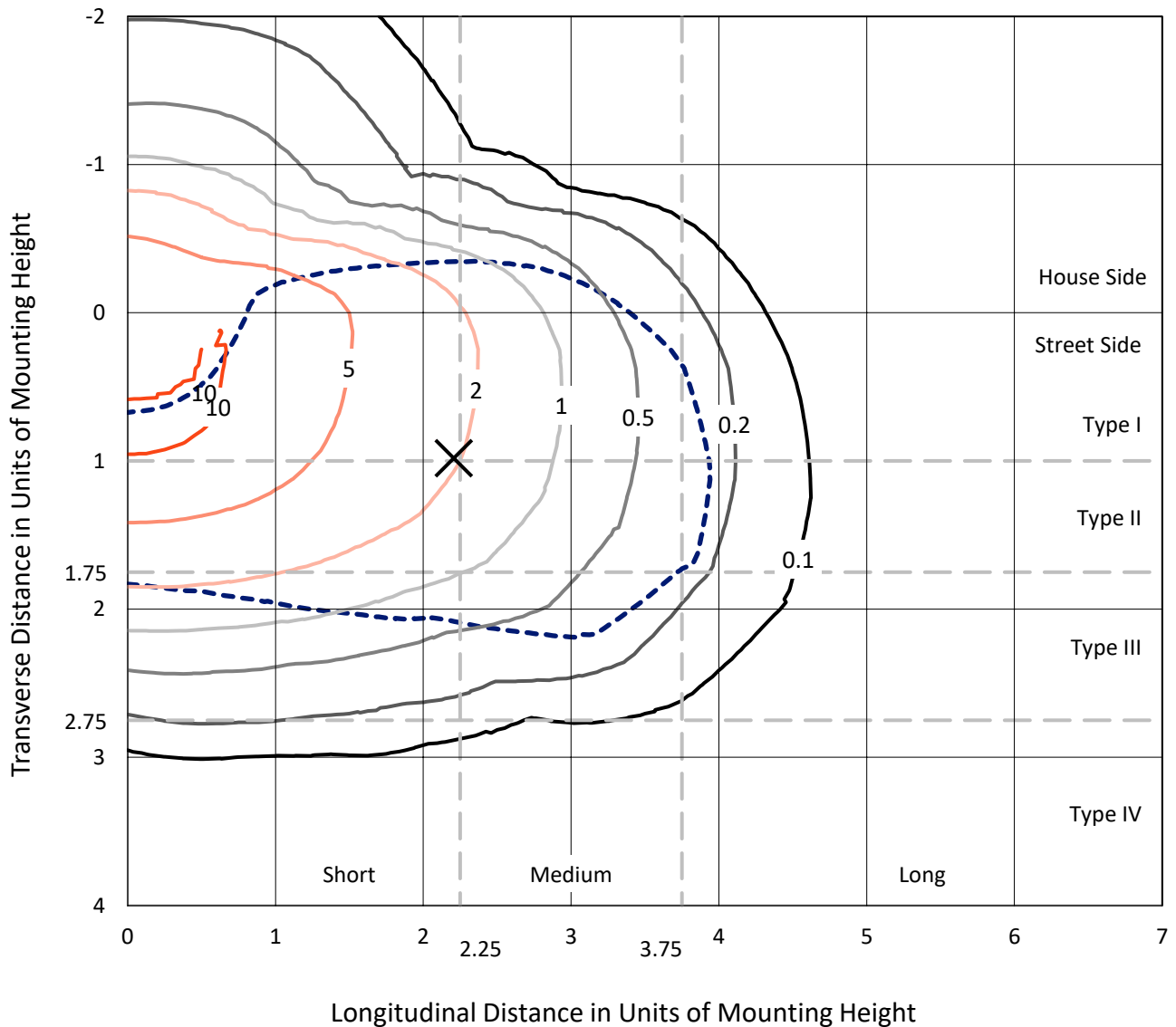
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

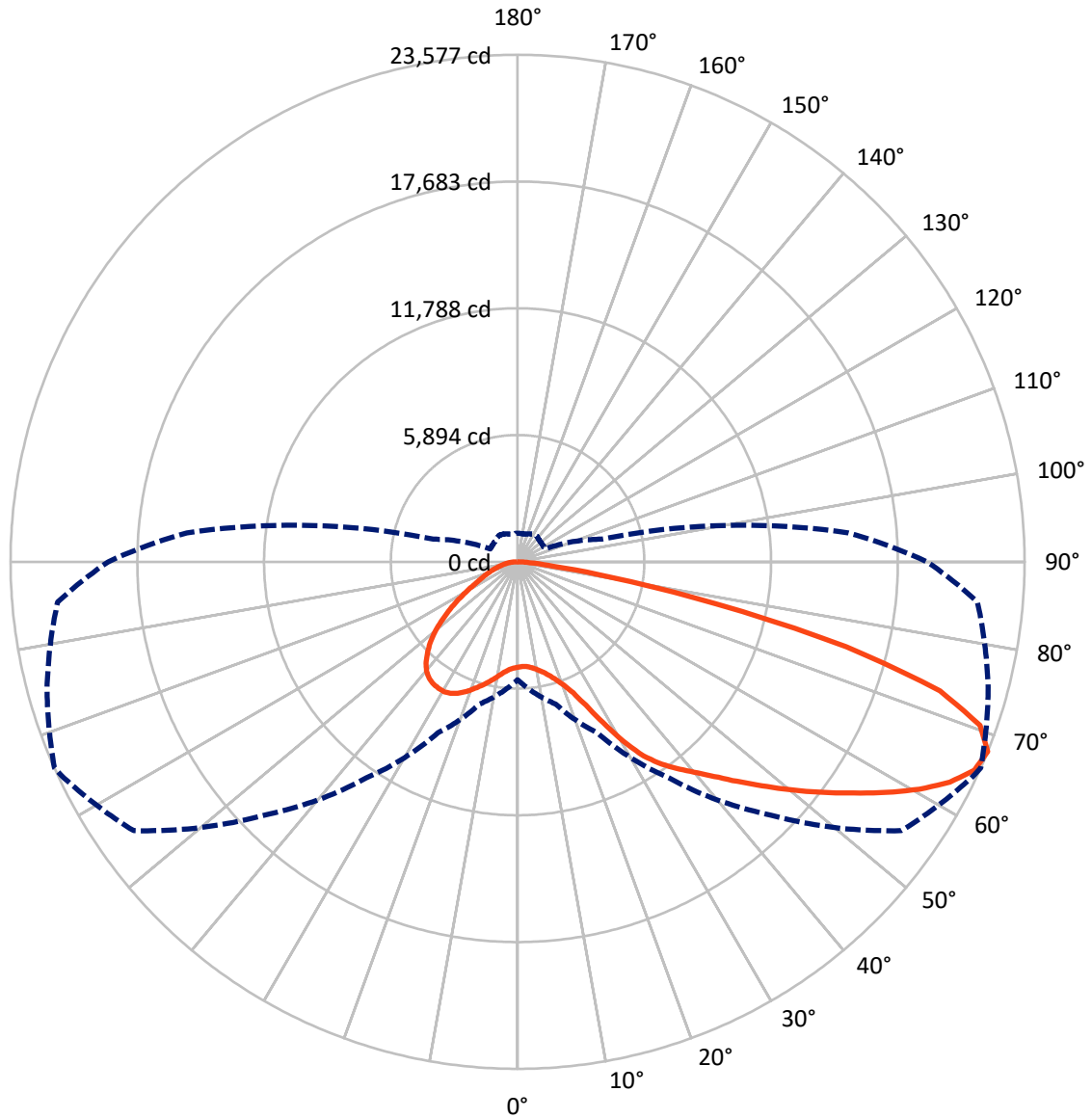
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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
House Side	Lumens	10982.0	0.0	10982.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	33185.0	0.0	33185.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	44167.0	0.0	44167.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.7	1.1
10°-20°	1604.6	3.6
20°-30°	3092.9	7.0
30°-40°	5422.9	12.3
40°-50°	8062.1	18.3
50°-60°	10219.5	23.1
60°-70°	9999.6	22.6
70°-80°	4769.9	10.8
80°-90°	509.8	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°	44167.0	100.0
0°-180°	44167.0	100.0

Coefficient of Utilization



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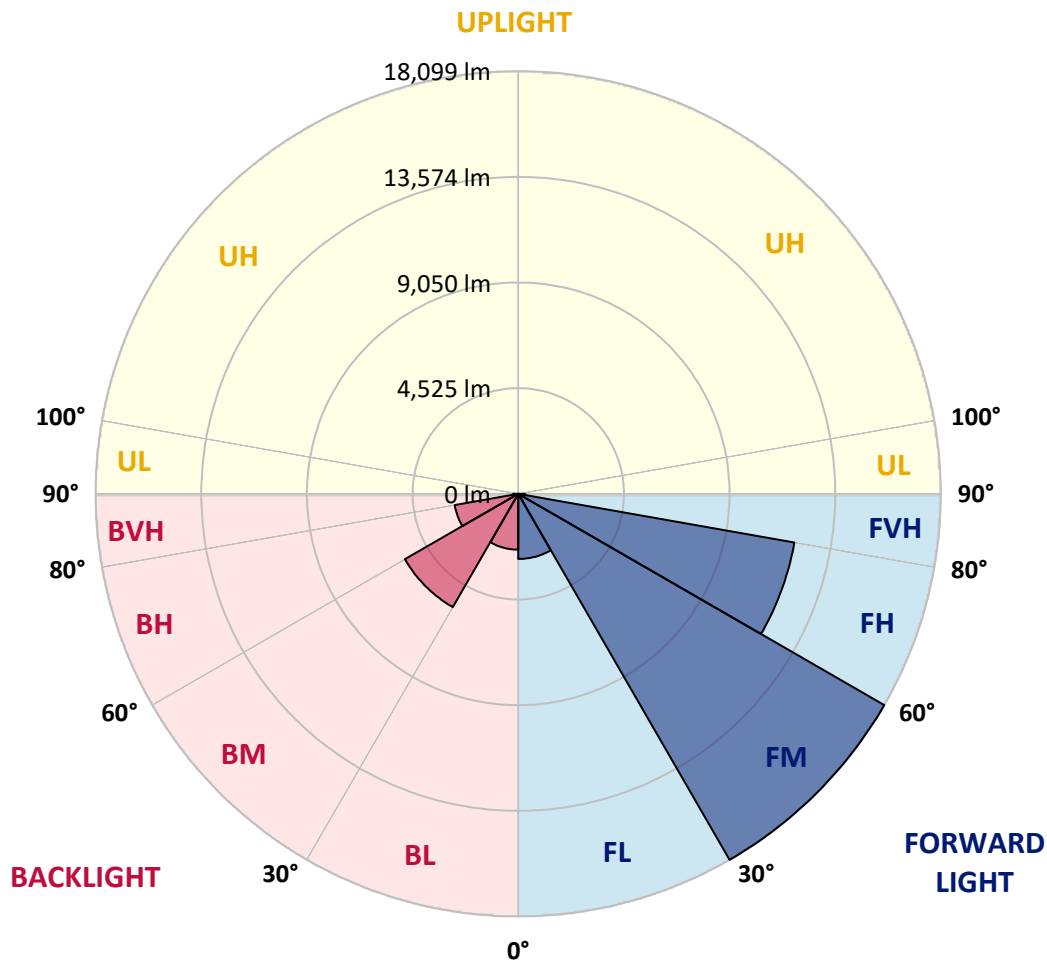
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2790.9	6.3			
FM (30°-60°)	18099.3	41.0			
FH (60°-80°)	12005.8	27.2			G5
FVH (80°-90°)	289.0	0.7			G3/500
BL (0°-30°)	2392.3	5.4	B3/2500		
BM (30°-60°)	5605.3	12.7	B4/8500		
BH (60°-80°)	2763.6	6.3	B4/5000		G4/5000
BVH (80°-90°)	220.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	4898.7	4898.7	4898.7	4898.7	4898.7	4898.7	4898.7	4898.7	4898.7	4898.7
2.5°	4847.7	4875.5	4868.5	4856.9	4854.6	4859.3	4866.2	4873.2	4870.9	4882.5
5°	4833.7	4861.6	4859.3	4859.3	4868.5	4887.1	4898.7	4910.3	4898.7	4912.6
7.5°	4843.0	4863.9	4873.2	4882.5	4905.7	4940.5	4968.3	4993.8	4979.9	4996.2
10°	4961.4	4977.6	4986.9	4986.9	5003.1	5042.6	5070.4	5116.8	5105.2	5130.8
12.5°	5177.2	5193.4	5193.4	5184.1	5195.7	5221.3	5230.5	5281.6	5260.7	5302.5
15°	5441.7	5474.2	5448.7	5432.4	5437.1	5462.6	5460.3	5499.7	5478.8	5513.7
17.5°	5734.1	5775.9	5734.1	5731.8	5722.5	5750.3	5752.7	5787.5	5750.3	5775.9
20°	6079.9	6137.9	6103.1	6114.7	6093.8	6105.4	6117.0	6168.1	6110.0	6128.6
22.5°	6567.2	6636.8	6599.7	6643.8	6629.8	6620.6	6618.2	6708.7	6618.2	6625.2
25°	7277.3	7360.8	7295.8	7356.2	7356.2	7386.3	7421.2	7537.2	7386.3	7342.3
27.5°	8326.2	8409.7	8282.1	8319.2	8307.6	8381.9	8344.7	8632.5	8470.0	8398.1
30°	9588.6	9737.1	9495.7	9486.5	9474.9	9593.2	9646.6	9836.9	9672.1	9600.2
32.5°	10953.0	11108.5	10820.8	10737.2	10693.1	10765.1	10721.0	10874.1	10760.4	10649.1
35°	12396.4	12549.6	12275.8	12113.3	11937.0	11786.1	11628.3	11667.8	11561.0	11391.6
37.5°	13760.9	14041.7	13751.6	13577.6	13252.7	12958.0	12517.1	12333.8	12234.0	12078.5
40°	15150.9	15311.1	15090.6	14942.1	14589.4	14127.6	13422.1	13034.6	12900.0	12749.2
42.5°	16174.3	16327.5	16209.1	16107.0	15830.9	15294.8	14382.8	13897.8	13702.9	13533.5
45°	16986.5	17100.2	17026.0	17063.1	16944.7	16424.9	15378.4	14823.7	14621.9	14415.3
47.5°	17313.7	17434.4	17552.7	17773.2	17975.1	17592.2	16448.1	15826.2	15612.7	15401.6
50°	17276.6	17399.6	17743.0	18211.8	18838.3	18710.7	17575.9	16893.7	16696.4	16455.1
52.5°	16979.5	17118.8	17559.7	18339.4	19337.2	19548.4	18724.6	17995.9	17810.3	17522.6
55°	16199.8	16283.4	16944.7	18049.3	19455.6	20133.2	19850.1	19170.2	18984.5	18583.1
57.5°	14754.1	14874.8	15837.8	17267.3	19158.6	20530.0	20838.6	20404.7	20226.0	19648.2
60°	12867.5	13060.1	14162.4	15953.9	18402.0	20527.7	21736.7	21618.3	21469.8	20697.1
62.5°	10732.6	10955.4	12015.9	14097.4	17079.3	19945.2	22298.3	22634.8	22558.2	21664.8
65°	8242.6	8395.8	9451.6	11695.6	15021.0	18694.4	22363.2	23328.6	23342.5	22400.4
67.5°	5488.1	5929.0	6845.7	8776.4	12264.2	16650.0	21792.4	23442.3	23576.9	22653.3
70°	2677.9	3258.1	4156.1	5703.9	8776.4	13514.9	20300.3	22509.4	22808.8	21915.4
72.5°	1111.5	1299.5	1789.2	2814.8	5037.9	9119.8	17302.1	19980.0	20534.6	19418.5
75°	749.5	812.2	1023.4	1443.4	2295.0	4497.2	12477.7	14898.0	15791.4	14665.9
77.5°	577.8	617.3	744.9	1009.4	1364.5	1701.0	6678.6	8978.2	9440.0	8739.2
80°	454.8	485.0	556.9	735.6	967.7	909.7	2276.5	4067.9	4334.8	3636.3
82.5°	394.5	406.1	399.1	498.9	642.8	531.4	747.2	1501.4	1656.9	1202.1
85°	285.4	317.9	331.8	308.6	341.1	269.2	306.3	531.4	584.8	522.1
87.5°	116.0	171.7	211.2	199.6	125.3	76.6	95.1	155.5	178.7	194.9
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°
4898.7	0°	4898.7	4898.7	4898.7	4898.7	4898.7	4898.7	4898.7	4898.7	4898.7	4898.7
4901.0	2.5°	4903.3	4919.6	4931.2	4945.1	4954.4	4968.3	4996.2	5012.4	5014.7	5026.3
4938.2	5°	4947.4	4970.6	4996.2	5033.3	5075.1	5109.9	5163.2	5200.4	5214.3	5225.9
5028.7	7.5°	5042.6	5075.1	5121.5	5186.5	5246.8	5293.2	5358.2	5402.3	5446.4	5462.6
5172.5	10°	5184.1	5230.5	5297.8	5386.0	5451.0	5511.3	5578.6	5615.8	5659.8	5678.4
5344.3	12.5°	5360.5	5409.2	5497.4	5620.4	5680.7	5722.5	5745.7	5736.4	5745.7	5762.0
5550.8	15°	5562.4	5615.8	5715.5	5847.8	5889.6	5852.5	5801.4	5755.0	5748.0	5752.7
5801.4	17.5°	5801.4	5840.9	5956.9	6068.3	6038.1	5884.9	5773.6	5699.3	5662.2	5650.6
6121.6	20°	6135.6	6135.6	6230.7	6300.3	6098.4	5838.5	5664.5	5543.8	5467.2	5434.8
6557.9	22.5°	6541.7	6504.5	6564.9	6516.1	6086.8	5708.6	5467.2	5258.4	5142.4	5096.0
7168.2	25°	7056.8	7012.7	6996.5	6694.8	6003.3	5502.0	5109.9	4856.9	4754.8	4729.3
8047.7	27.5°	7834.2	7722.8	7511.7	6792.3	5850.1	5177.2	4692.2	4457.8	4399.8	4402.1
9177.8	30°	8869.2	8646.4	8128.9	6808.5	5599.5	4717.7	4265.2	4098.1	4070.3	4081.9
10126.9	32.5°	9827.6	9616.4	8760.1	6734.3	5214.3	4267.5	3882.3	3770.9	3729.1	3743.1
10850.9	35°	10579.4	10521.4	9344.9	6629.8	4740.9	3845.2	3538.9	3443.7	3362.5	3343.9
11533.2	37.5°	11289.5	11266.3	9783.5	6483.6	4272.2	3545.8	3262.7	3137.4	3019.0	2954.1
12287.4	40°	12069.2	12046.0	10071.2	6258.6	3856.8	3285.9	3014.4	2849.6	2703.5	2585.1
13141.3	42.5°	12946.4	12809.5	10208.1	5936.0	3504.0	3065.5	2812.5	2589.7	2397.1	2288.1
14106.7	45°	13904.8	13596.2	10205.8	5525.3	3207.0	2863.6	2596.7	2281.1	2102.4	2000.3
15097.6	47.5°	14921.2	14348.0	10080.5	5070.4	2919.3	2640.8	2262.5	2021.2	1902.9	1840.2
16174.3	50°	15970.1	15051.2	9867.0	4548.3	2624.6	2387.9	2053.7	1888.9	1798.4	1740.4
17241.8	52.5°	16956.3	15689.3	9609.4	3956.6	2325.2	2141.9	1960.9	1833.2	1738.1	1673.1
18276.7	55°	17873.0	16239.3	9245.1	3350.9	2081.5	1977.1	1916.8	1810.0	1701.0	1624.4
19328.0	57.5°	18687.5	16596.7	8616.2	2782.4	1907.5	1863.4	1870.4	1770.6	1645.3	1580.3
20362.9	60°	19365.1	16858.9	7685.7	2255.6	1765.9	1752.0	1798.4	1696.3	1550.1	1475.9
21237.8	62.5°	19771.2	16854.2	6544.0	1847.2	1645.3	1649.9	1703.3	1603.5	1455.0	1385.4
21694.9	65°	19736.4	16441.2	5290.9	1580.3	1529.2	1533.9	1603.5	1501.4	1376.1	1334.3
21465.2	67.5°	19037.9	15434.1	4058.7	1406.3	1401.6	1422.5	1503.7	1431.8	1327.4	1322.7
20096.1	70°	17146.6	13343.2	2923.9	1267.0	1269.3	1299.5	1406.3	1387.7	1301.8	1311.1
16896.0	72.5°	13749.3	10173.3	1963.2	1120.8	1123.2	1171.9	1313.4	1352.9	1276.3	1399.3
11988.0	75°	9156.9	6344.4	1262.4	965.4	967.7	1030.3	1232.2	1285.6	1206.7	1394.7
6237.7	77.5°	4399.8	2852.0	914.3	812.2	812.2	870.2	1065.1	1151.0	1028.0	1083.7
2005.0	80°	1520.0	1072.1	719.4	654.4	640.5	679.9	898.1	997.8	886.5	816.8
654.4	82.5°	598.7	556.9	577.8	508.2	461.8	487.3	698.5	823.8	652.1	589.4
369.0	85°	343.4	362.0	408.4	336.5	266.9	299.4	512.8	591.7	492.0	433.9
120.7	87.5°	92.8	127.6	188.0	174.0	120.7	127.6	243.7	327.2	283.1	218.1
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°
4898.7
5024.0
5223.6
5464.9
5687.7
5766.6
5768.9
5666.8
5427.8
5089.0
4733.9
4409.1
4121.3
3761.6
3357.9
2956.4
2596.7
2295.0
1995.7
1826.3
1719.5
1645.3
1594.2
1538.5
1443.4
1364.5
1332.0
1329.7
1308.8
1417.9
1406.3
993.2
765.8
587.1
443.2
225.1
0.0

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