

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: P851715

Luminaire Tested: **GLAN-SB9D-827-U-T2-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P851715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB9D-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53964 lumens
Efficiency: N/A
Efficacy: 82.0 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

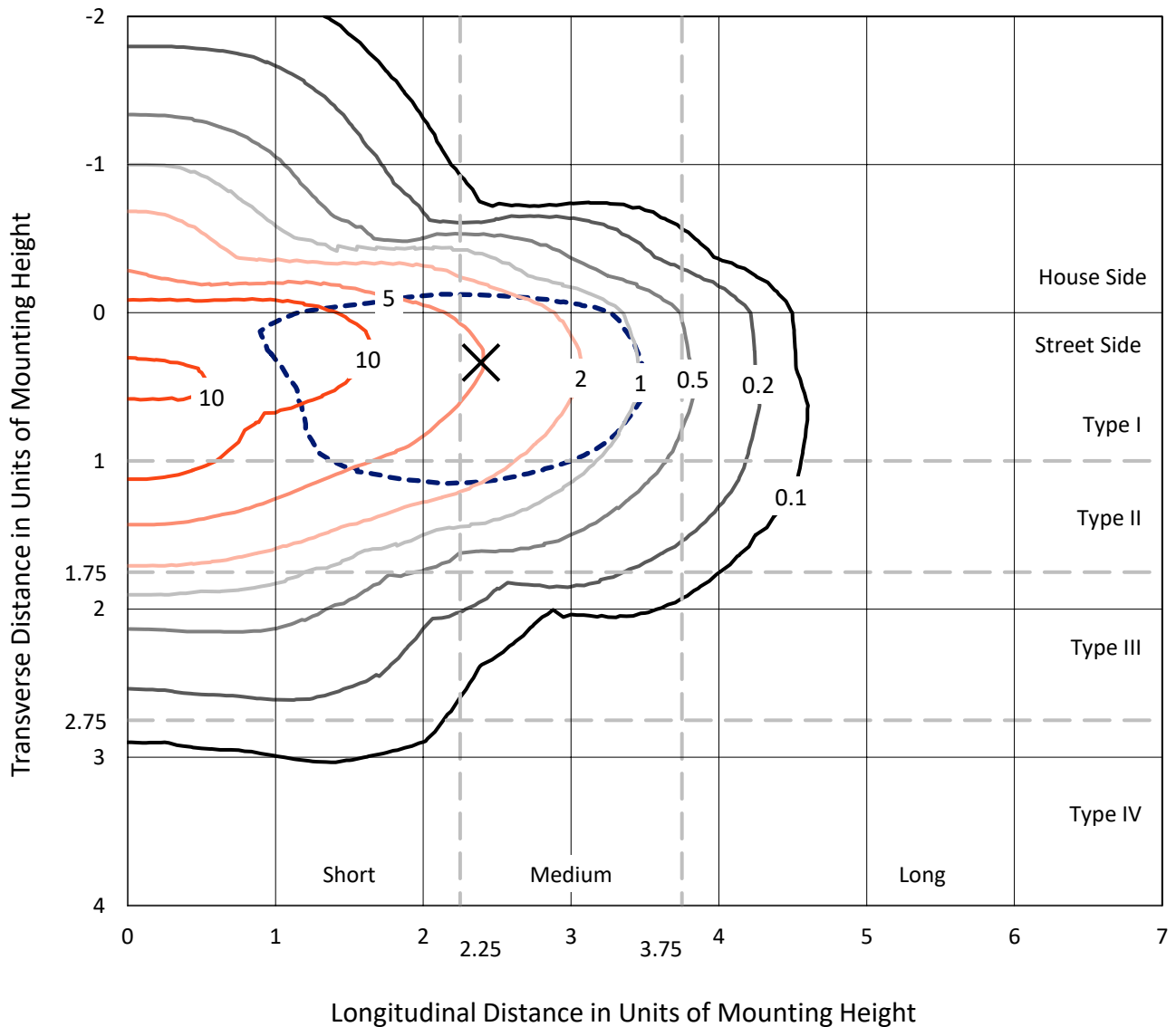
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

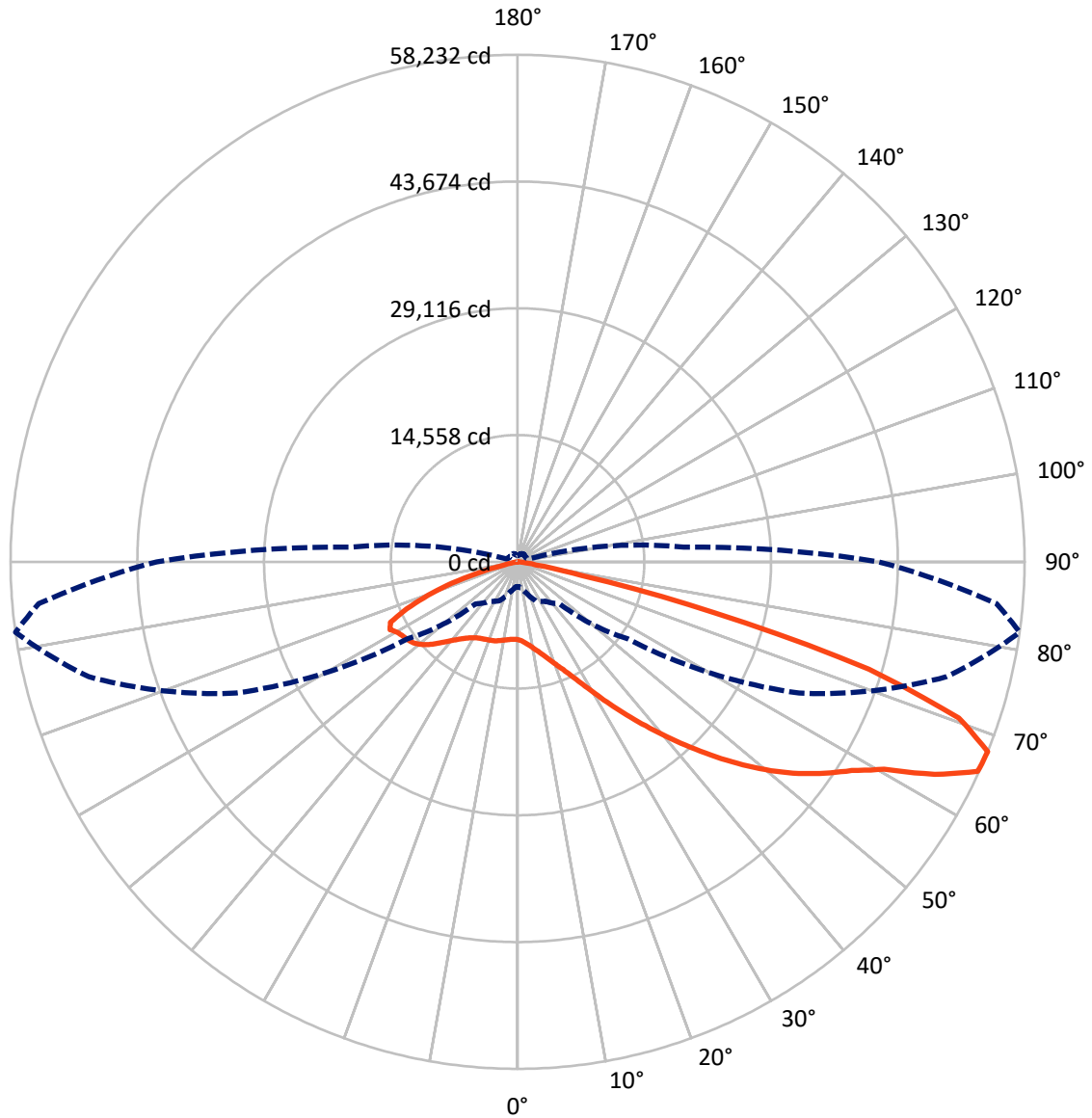
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9775.1	0.0	9775.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	44188.9	0.0	44188.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	53964.0	0.0	53964.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	796.5	1.5
10°-20°	2069.8	3.8
20°-30°	3315.1	6.1
30°-40°	5862.1	10.9
40°-50°	10270.9	19.0
50°-60°	13698.6	25.4
60°-70°	12752.7	23.6
70°-80°	4894.5	9.1
80°-90°	304.0	0.6
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°	53964.0	100.0
0°-180°	53964.0	100.0

Coefficient of Utilization

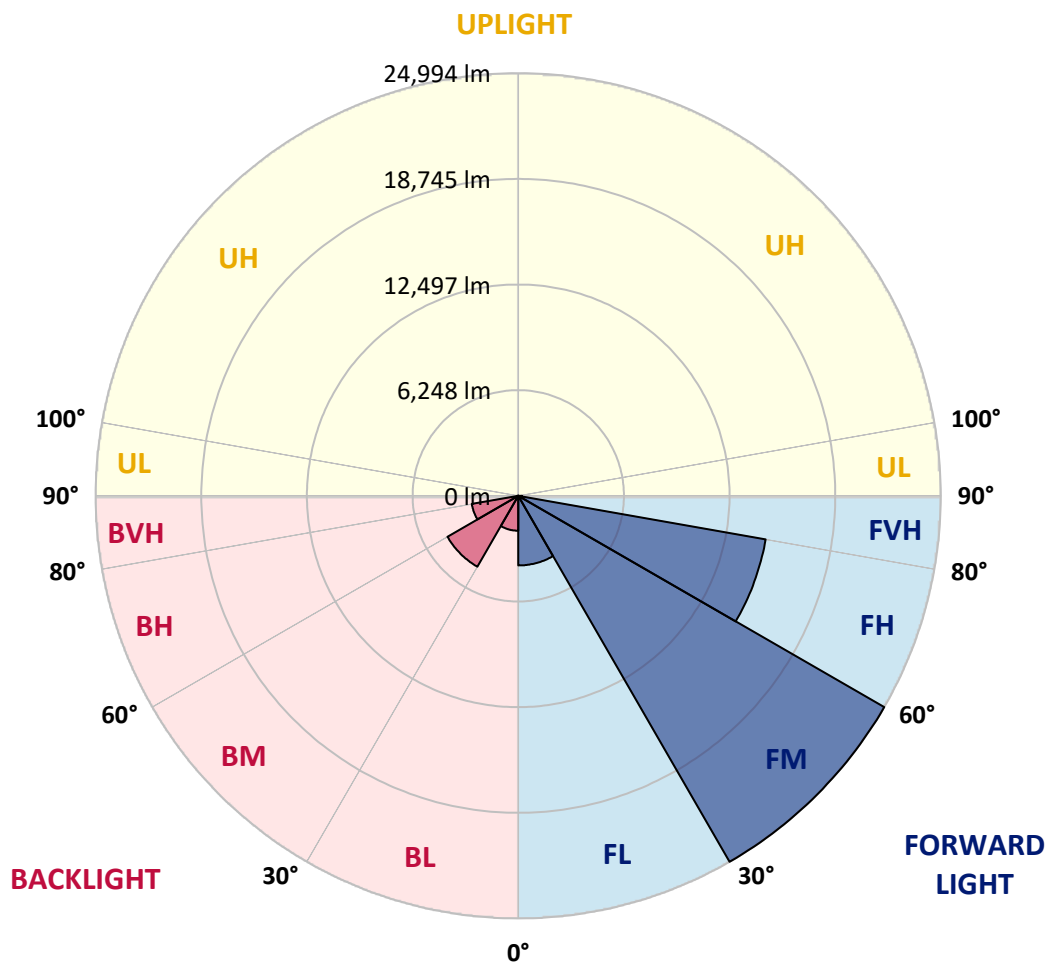


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4116.9	7.6			
FM (30°-60°)	24993.9	46.3			
FH (60°-80°)	14857.1	27.5			G5
FVH (80°-90°)	221.0	0.4			G2/225
BL (0°-30°)	2064.5	3.8	B3/2500		
BM (30°-60°)	4837.6	9.0	B3/5000		
BH (60°-80°)	2790.0	5.2	B4/5000		G4/5000
BVH (80°-90°)	83.0	0.2			G1/100
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°	8940.0	8940.0	8940.0	8940.0	8940.0	8940.0	8940.0	8940.0	8940.0	8940.0
2.5°	9449.0	9503.4	9472.3	9456.7	9429.6	9390.7	9359.6	9262.5	9161.5	9095.4
5°	9639.4	9693.8	9689.9	9705.4	9724.8	9736.5	9728.7	9619.9	9476.2	9363.5
7.5°	9476.2	9538.3	9588.8	9666.6	9802.5	9946.3	10016.2	9992.9	9845.3	9689.9
10°	9013.8	9079.9	9200.3	9382.9	9670.4	9981.3	10241.6	10362.0	10268.8	10097.8
12.5°	8166.8	8232.9	8469.9	8866.2	9348.0	9888.0	10385.3	10707.8	10731.1	10560.2
15°	7214.9	7281.0	7533.5	8030.9	8765.2	9631.6	10463.0	11073.0	11278.9	11131.3
17.5°	6624.4	6682.7	6873.0	7273.2	8038.6	9118.7	10435.8	11461.5	11931.7	11815.1
20°	6445.7	6496.2	6585.5	6865.3	7502.5	8586.4	10257.1	11826.8	12634.9	12568.9
22.5°	6636.0	6682.7	6709.9	6834.2	7234.4	8236.8	10031.8	12199.8	13450.8	13458.6
25°	7075.1	7121.7	7090.6	7168.3	7343.2	8128.0	9946.3	12638.8	14476.5	14562.0
27.5°	7797.7	7801.6	7727.8	7723.9	7751.1	8291.2	10035.7	13108.9	15770.3	15929.6
30°	9246.9	9188.7	8905.0	8598.1	8458.2	8780.7	10284.3	13664.5	17297.2	17580.9
32.5°	11481.0	11395.5	10874.9	10140.6	9402.4	9569.4	10731.1	14297.8	18960.1	19473.0
35°	13905.4	13882.1	13338.1	12246.4	10956.5	10692.3	11457.7	15129.2	20774.5	21590.5
37.5°	16158.8	16147.2	15836.4	14550.3	12980.7	12258.0	12623.2	16217.1	22717.2	23898.3
40°	18218.0	18253.0	17942.2	16792.1	15210.8	14266.7	14208.4	17561.4	24877.4	26412.1
42.5°	19997.5	20036.3	19721.6	18870.8	17413.8	16489.1	16155.0	19208.8	26987.1	29112.3
45°	21205.8	21446.7	21400.1	20720.2	19675.0	18715.4	18493.9	21275.7	29392.1	31975.8
47.5°	21547.7	21769.2	22118.8	22212.1	21574.9	20630.8	20895.0	23766.2	31824.3	34843.1
50°	20704.6	20910.5	21637.1	22604.5	23047.4	22756.0	23230.0	26435.4	34314.7	37702.7
52.5°	19041.7	19251.5	20168.4	21699.2	23505.9	24422.8	25572.9	29065.7	36727.5	40410.7
55°	16636.7	16858.2	18035.4	19768.3	22631.7	25110.5	27527.1	31692.2	38938.2	42846.8
57.5°	13365.3	13528.5	14752.4	17176.8	20432.6	24426.7	28968.6	34559.5	41020.7	45240.1
60°	8710.8	8854.5	10276.5	12980.7	16788.3	22142.2	29256.1	37757.1	43787.0	48352.2
62.5°	5792.9	5890.1	6733.2	8718.5	11822.9	17755.7	27573.8	40309.7	47843.2	53768.3
65°	3974.6	4071.8	4914.9	6298.0	7638.4	11745.2	22736.6	39971.7	51518.7	58069.3
67.5°	2836.2	2917.8	3632.7	4938.2	5528.7	6822.5	15412.9	35651.2	50990.3	58232.4
70°	2032.0	2078.6	2669.2	3846.4	4394.2	4099.0	8570.9	27266.8	44645.6	53772.2
72.5°	1422.0	1437.6	1853.3	2929.5	3539.5	2991.7	4079.5	18179.2	33766.9	42205.7
75°	963.5	983.0	1247.2	2148.6	2840.1	2284.5	2160.2	9748.1	19822.7	23362.1
77.5°	590.6	598.3	804.3	1468.6	2125.2	1740.6	1390.9	4130.0	7669.5	7529.7
80°	334.1	334.1	512.9	913.0	1449.2	1122.8	975.2	1756.1	2428.3	2133.0
82.5°	186.5	190.4	373.0	567.2	959.7	664.4	536.2	812.0	1049.0	928.6
85°	77.7	85.5	229.2	268.1	458.5	330.2	217.6	341.9	388.5	345.8
87.5°	7.8	11.7	69.9	50.5	54.4	66.0	31.1	66.0	54.4	54.4
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°
8940.0	0°	8940.0	8940.0	8940.0	8940.0	8940.0	8940.0	8940.0	8940.0	8940.0	8940.0
9072.1	2.5°	8998.3	8940.0	8792.4	8621.4	8396.1	8287.3	8139.6	8038.6	7953.1	7960.9
9297.5	5°	9173.1	9025.5	8695.2	8283.4	7770.5	7405.3	7016.8	6748.7	6531.1	6484.5
9608.3	7.5°	9414.0	9180.9	8602.0	7859.9	6993.5	6336.9	5750.2	5373.3	5105.2	5019.8
9985.1	10°	9724.8	9386.8	8481.5	7327.6	6080.4	5245.1	4615.7	4320.4	4137.8	4075.6
10428.1	12.5°	10086.2	9623.8	8322.3	6678.8	5140.2	4336.0	3935.8	3788.1	3729.9	3710.4
10972.0	15°	10540.7	9919.1	8081.4	5909.5	4343.7	3780.4	3609.4	3590.0	3597.8	3590.0
11624.7	17.5°	11080.8	10241.6	7689.0	5116.9	3807.6	3496.7	3434.6	3450.1	3469.5	3465.7
12355.2	20°	11671.4	10560.2	7187.8	4413.7	3442.4	3294.7	3259.7	3275.3	3290.8	3283.1
13198.3	22.5°	12343.5	10902.1	6632.2	3865.8	3197.6	3108.2	3069.4	3073.2	3073.2	3057.7
14266.7	25°	13147.8	11278.9	6049.4	3477.3	3011.1	2941.2	2894.5	2879.0	2855.7	2809.1
15564.4	27.5°	14107.4	11679.1	5489.9	3205.3	2863.4	2797.4	2743.0	2704.1	2645.9	2568.2
17122.4	30°	15187.5	12164.8	5015.9	3034.4	2746.9	2680.8	2618.7	2560.4	2474.9	2377.8
18913.5	32.5°	16458.0	12685.4	4670.1	2921.7	2642.0	2572.0	2498.2	2428.3	2335.0	2237.9
20926.1	35°	17973.3	13314.8	4468.1	2844.0	2560.4	2467.1	2385.6	2307.9	2237.9	2152.4
23113.5	37.5°	19616.7	13983.1	4405.9	2805.2	2506.0	2362.2	2269.0	2214.6	2206.8	2156.3
25479.6	40°	21415.6	14775.7	4452.5	2781.9	2447.7	2261.2	2160.2	2148.6	2168.0	2078.6
28008.9	42.5°	23319.4	15715.9	4530.2	2754.7	2366.1	2160.2	2063.1	2063.1	2047.5	1923.2
30682.0	45°	25378.6	16799.9	4607.9	2688.6	2269.0	2059.2	1985.4	1958.2	1892.1	1771.7
33370.6	47.5°	27453.3	17903.3	4666.2	2568.2	2152.4	1973.7	1907.7	1845.5	1748.4	1639.6
36008.7	50°	29423.2	18894.1	4604.0	2389.4	2020.3	1892.1	1822.2	1736.7	1631.8	1558.0
38506.9	52.5°	31183.2	19752.7	4339.8	2179.6	1880.5	1806.7	1744.5	1655.1	1569.6	1491.9
40760.4	55°	32714.0	20448.2	3873.6	1981.5	1756.1	1732.8	1670.7	1558.0	1441.4	1375.4
42994.4	57.5°	34182.6	20976.6	3290.8	1818.3	1643.5	1651.2	1558.0	1457.0	1348.2	1278.3
46005.5	60°	36136.9	21683.7	2700.3	1666.8	1523.0	1546.3	1445.3	1371.5	1235.5	1146.2
51169.0	62.5°	39260.7	22783.2	2144.7	1480.3	1383.2	1390.9	1348.2	1258.8	1095.6	990.7
54996.0	65°	41739.5	22379.2	1690.1	1278.3	1223.9	1235.5	1235.5	1138.4	963.5	843.1
55201.9	67.5°	41459.7	19162.2	1348.2	1080.1	1072.3	1080.1	1107.3	1025.7	854.8	757.6
50998.1	70°	38192.2	15241.9	1080.1	897.5	932.5	913.0	990.7	936.4	769.3	672.2
39536.5	72.5°	31163.8	10979.8	823.7	742.1	714.9	746.0	893.6	843.1	641.1	532.3
20941.6	75°	18210.3	5859.0	613.9	586.7	516.7	621.6	792.6	718.8	489.5	392.4
6418.5	77.5°	5928.9	2043.7	450.7	431.3	384.6	501.2	676.0	606.1	400.2	310.8
1880.5	80°	1589.1	617.8	306.9	283.6	248.7	373.0	536.2	481.8	287.5	202.0
808.1	82.5°	637.2	260.3	178.7	159.3	136.0	256.4	423.5	388.5	213.7	128.2
252.5	85°	205.9	85.5	66.0	50.5	62.2	159.3	252.5	264.2	151.5	66.0
38.9	87.5°	27.2	11.7	11.7	15.5	11.7	27.2	77.7	73.8	42.7	7.8
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°
8940.0
7883.2
6379.6
4934.3
4029.0
3698.8
3586.1
3457.9
3279.2
3049.9
2801.3
2560.4
2370.0
2241.8
2144.7
2152.4
2082.5
1923.2
1767.8
1635.7
1546.3
1484.2
1367.6
1270.5
1134.5
983.0
831.4
742.1
660.5
520.6
380.8
299.2
198.1
128.2
50.5
0.0
0.0

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