

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: P852581

Luminaire Tested: **GLAN-SB4D-850-U-T4FT**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P852581
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-SB4D-850-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34611 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

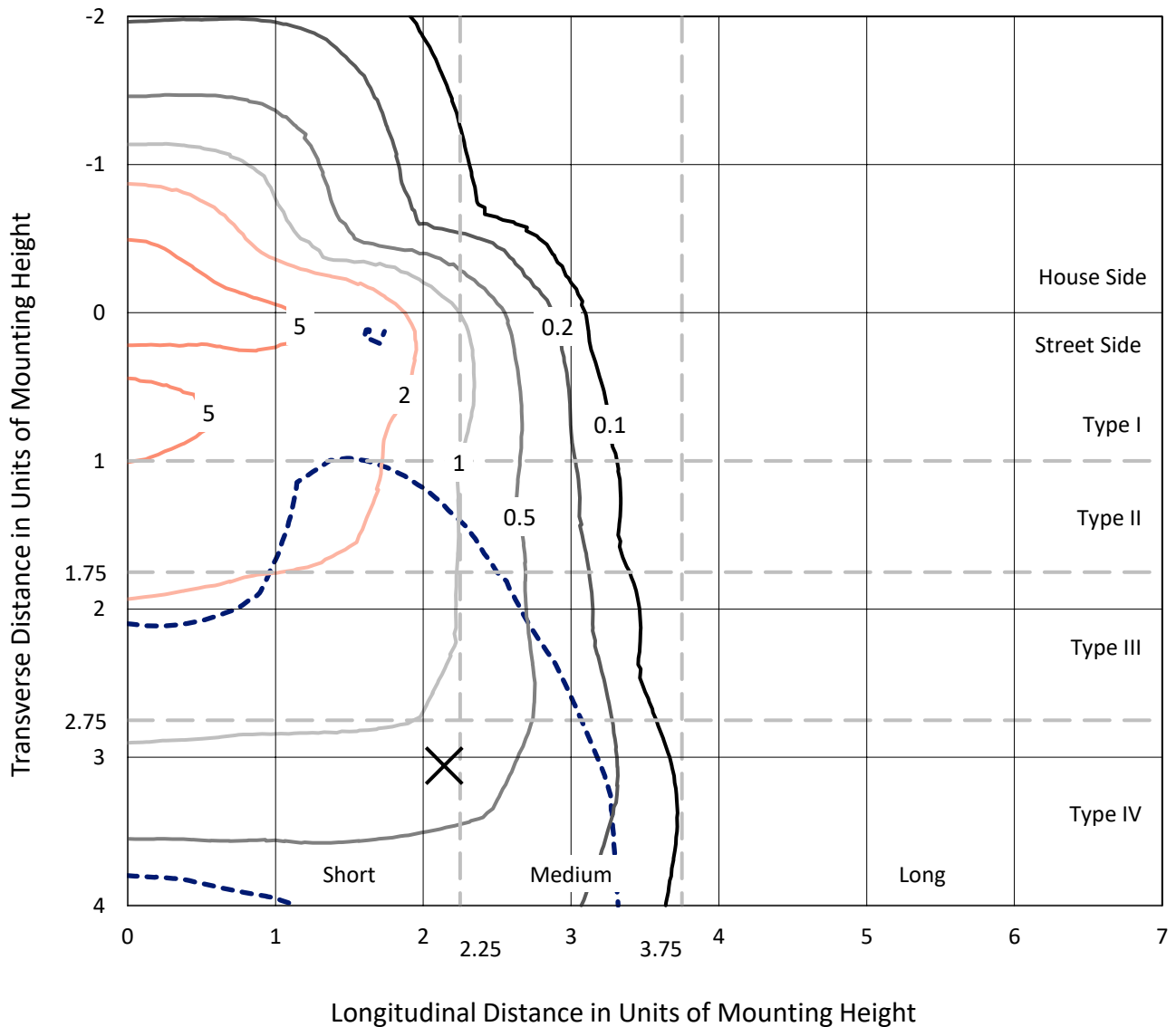
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

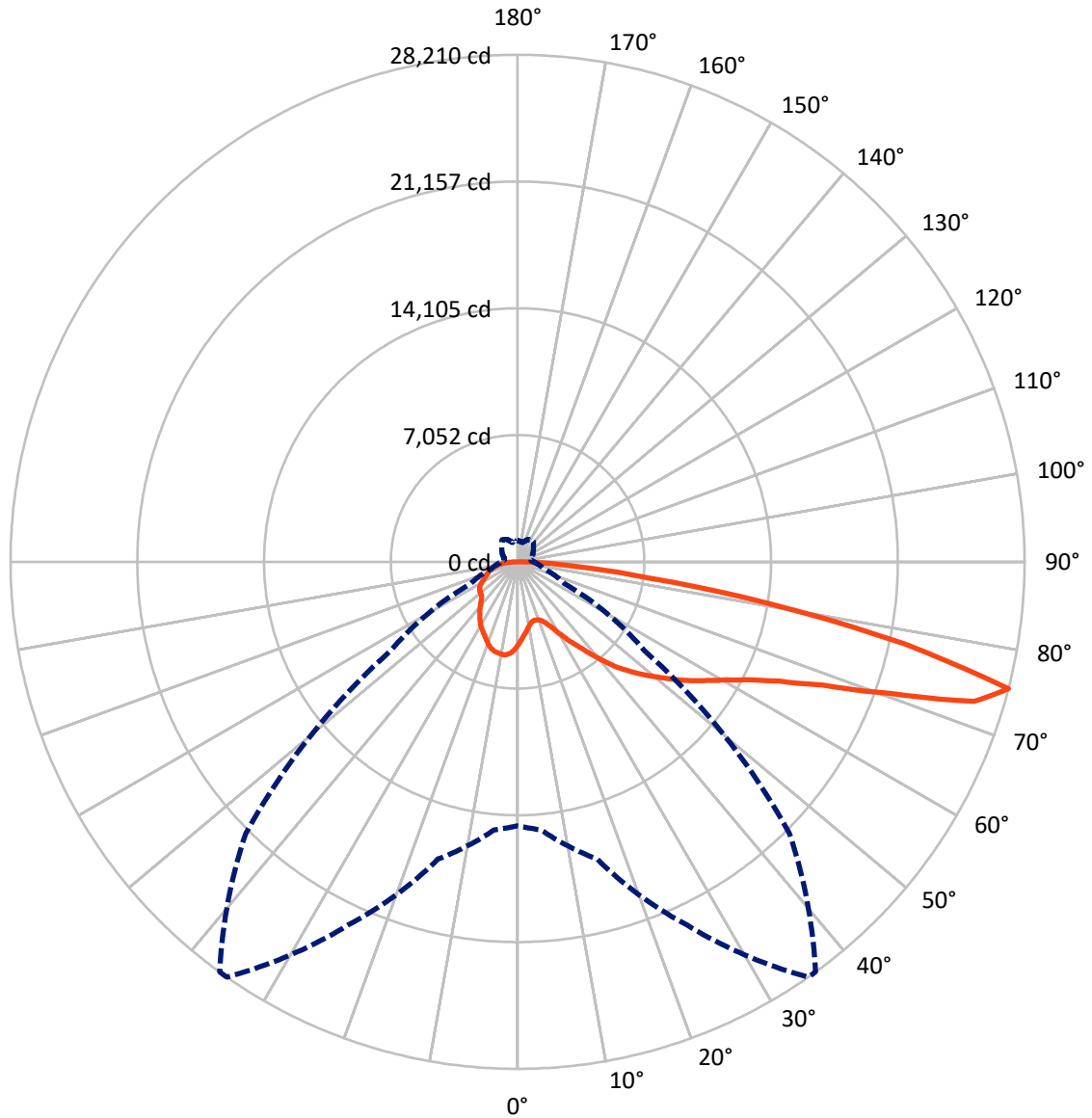
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	8236.5	0.0	8236.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	26374.5	0.0	26374.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	34611.0	0.0	34611.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.7	1.3
10°-20°	1259.6	3.6
20°-30°	2115.1	6.1
30°-40°	3287.2	9.5
40°-50°	4879.1	14.1
50°-60°	6735.9	19.5
60°-70°	8172.2	23.6
70°-80°	6753.7	19.5
80°-90°	971.4	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°	34611.0	100.0
0°-180°	34611.0	100.0

Coefficient of Utilization

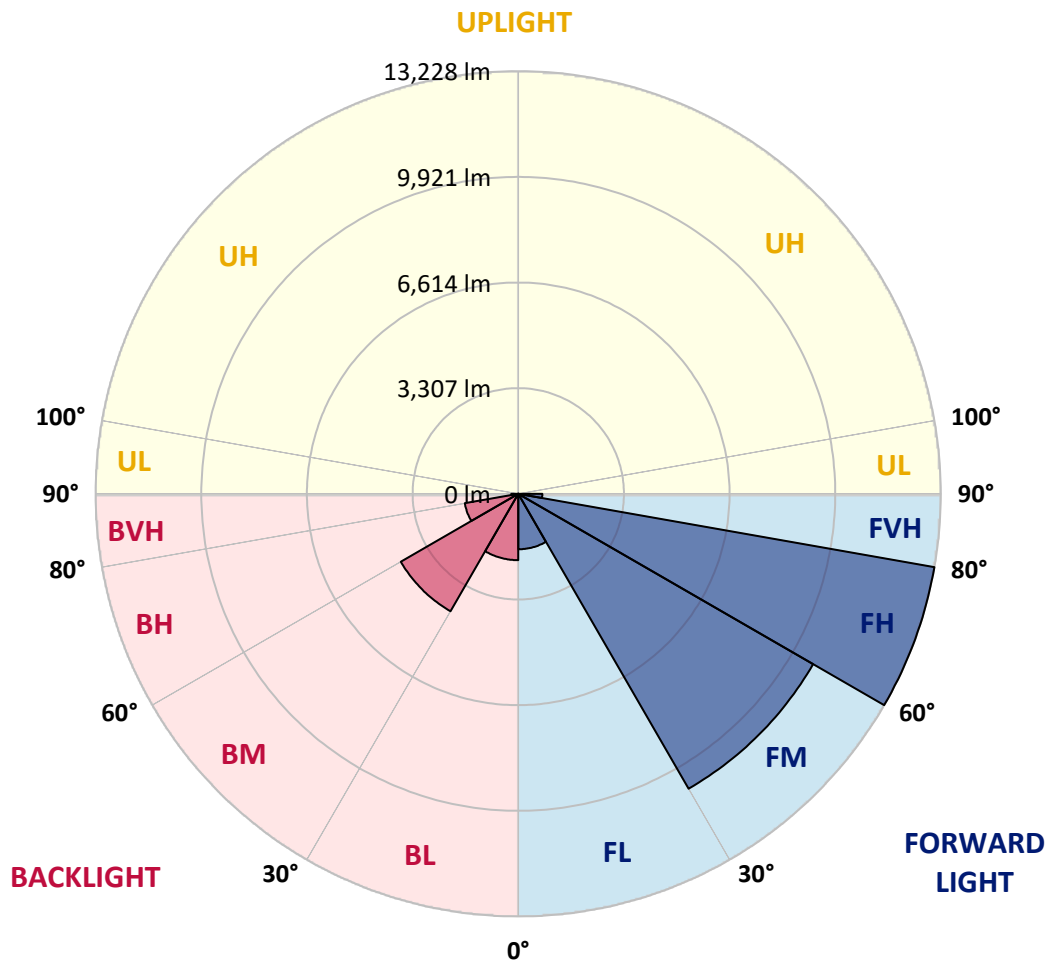


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1735.7	5.0			
FM (30°-60°)	10658.3	30.8			
FH (60°-80°)	13227.8	38.2			G5
FVH (80°-90°)	752.7	2.2			G5
BL (0°-30°)	2075.7	6.0	B3/2500		
BM (30°-60°)	4244.0	12.3	B3/5000		
BH (60°-80°)	1698.1	4.9	B3/2500		G3/2500
BVH (80°-90°)	218.7	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1
2.5°	4252.9	4279.1	4290.3	4284.7	4312.8	4309.0	4348.3	4397.0	4464.3	4529.8
5°	3925.5	3953.5	3977.9	4000.3	4054.6	4071.4	4133.2	4226.7	4350.2	4475.6
7.5°	3620.5	3644.8	3682.2	3723.4	3815.1	3831.9	3934.8	4080.8	4252.9	4436.3
10°	3371.6	3396.0	3435.3	3482.0	3596.2	3616.7	3747.7	3942.3	4166.8	4398.8
12.5°	3265.0	3272.5	3294.9	3341.7	3440.9	3454.0	3598.0	3820.7	4082.6	4370.8
15°	3259.4	3274.3	3276.2	3300.5	3382.9	3388.5	3521.3	3742.1	4030.3	4365.2
17.5°	3315.5	3326.7	3309.9	3324.9	3394.1	3403.4	3508.2	3704.7	4013.4	4389.5
20°	3465.2	3474.5	3424.0	3403.4	3454.0	3461.5	3564.4	3729.0	4030.3	4440.0
22.5°	3783.3	3788.9	3665.4	3581.2	3584.9	3588.7	3678.5	3828.2	4095.7	4531.7
25°	4279.1	4275.4	4078.9	3916.1	3822.6	3802.0	3861.9	3989.1	4206.1	4653.3
27.5°	4859.1	4831.1	4634.6	4391.4	4187.4	4157.5	4144.4	4198.6	4363.3	4814.2
30°	5514.0	5487.8	5276.4	4958.3	4675.8	4627.1	4503.6	4475.6	4597.2	5033.1
32.5°	6232.5	6215.6	5963.1	5577.6	5199.7	5143.5	4935.8	4861.0	4956.4	5364.3
35°	6835.0	6820.0	6610.4	6213.8	5751.6	5682.4	5471.0	5386.8	5435.4	5789.0
37.5°	7379.4	7372.0	7192.3	6879.9	6402.7	6318.6	6080.9	6052.9	6043.5	6348.5
40°	7884.6	7865.9	7678.8	7514.2	7160.5	7083.8	6874.3	6849.9	6778.8	7037.0
42.5°	8444.1	8395.4	8124.1	8047.4	7952.0	7888.4	7763.0	7766.7	7609.6	7813.5
45°	8900.6	8872.5	8593.8	8548.8	8651.8	8625.6	8734.1	8762.1	8457.2	8627.4
47.5°	9390.8	9364.6	9128.9	9097.1	9375.9	9383.3	9766.9	9776.3	9284.2	9473.2
50°	9995.2	9957.8	9723.9	9763.2	10075.6	10103.7	10805.3	10741.7	10045.7	10332.0
52.5°	10393.7	10416.2	10365.6	10429.3	10855.9	10882.1	11826.9	11664.2	10799.7	11179.6
55°	10687.5	10732.4	10889.5	11035.5	11679.1	11705.3	12790.5	12541.7	11424.7	11965.4
57.5°	11065.4	11001.8	11295.6	11580.0	12461.2	12530.5	13727.9	13387.4	11978.5	12642.7
60°	11608.0	11563.1	11791.4	12212.4	13336.9	13447.3	14719.6	14148.9	12384.5	13179.7
62.5°	12708.2	12595.9	12631.5	13003.8	14440.8	14586.7	15838.5	14813.1	12586.6	13389.3
65°	14352.9	14160.1	13980.5	14238.7	15995.6	16139.7	17101.4	15335.2	12511.7	12983.2
67.5°	16424.1	16233.3	16012.5	16255.7	18285.8	18400.0	18660.0	15628.9	11922.4	11419.0
70°	18132.4	18061.3	18325.1	19326.1	21943.7	21947.5	20658.3	15385.7	10307.6	8096.1
72.5°	17906.0	17863.0	19253.2	22347.9	26554.0	26454.8	22550.0	13544.6	6943.5	3652.3
75°	14689.7	14968.4	17122.0	22293.6	28209.9	28196.8	21391.8	8610.6	2872.1	1513.7
77.5°	7877.1	8318.7	11115.9	16459.7	22022.3	22353.5	15039.5	3012.4	1233.0	969.2
80°	2569.0	2954.4	4430.7	8380.5	14309.8	14248.1	6445.8	1182.5	843.8	686.7
82.5°	1090.8	1135.7	1979.6	3957.3	7343.9	7229.8	2052.5	679.2	593.1	469.6
85°	426.6	477.1	873.8	1829.9	3180.8	3111.6	740.9	336.8	379.8	306.9
87.5°	140.3	170.3	312.5	626.8	989.8	954.2	181.5	116.0	164.7	140.3
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°
4612.1	0°	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1
4625.2	2.5°	4651.4	4681.4	4716.9	4769.3	4814.2	4851.6	4890.9	4915.3	4924.6	4952.7
4632.7	5°	4685.1	4750.6	4838.5	4924.6	5008.8	5059.3	5104.2	5126.7	5147.3	5162.2
4653.3	7.5°	4741.3	4825.5	4963.9	5076.2	5147.3	5188.4	5218.4	5210.9	5218.4	5222.1
4675.8	10°	4789.9	4907.8	5072.4	5179.1	5233.3	5235.2	5227.7	5201.5	5188.4	5190.3
4709.4	12.5°	4847.9	4978.9	5156.6	5246.4	5261.4	5220.2	5188.4	5143.5	5126.7	5119.2
4760.0	15°	4926.5	5076.2	5248.3	5282.0	5244.6	5192.2	5137.9	5064.9	5027.5	4997.6
4846.0	17.5°	5021.9	5186.6	5319.4	5295.1	5214.6	5128.6	5040.6	4930.2	4853.5	4821.7
4963.9	20°	5154.8	5302.6	5373.7	5267.0	5145.4	5014.4	4864.7	4730.0	4658.9	4627.1
5113.6	22.5°	5315.7	5457.9	5426.1	5218.4	5046.2	4836.7	4649.6	4550.4	4514.9	4492.4
5306.3	25°	5508.4	5630.0	5463.5	5147.3	4883.5	4600.9	4456.9	4425.0	4408.2	4391.4
5542.1	27.5°	5759.1	5824.6	5491.5	5042.5	4629.0	4350.2	4297.8	4303.4	4297.8	4269.7
5869.5	30°	6090.3	6077.2	5517.7	4872.2	4337.1	4123.8	4127.5	4151.9	4155.6	4136.9
6326.0	32.5°	6526.2	6393.4	5530.8	4651.4	4058.3	3925.5	3929.2	3955.4	3974.1	3942.3
6922.9	35°	7053.9	6762.0	5510.3	4374.5	3843.1	3736.5	3708.4	3715.9	3721.5	3691.6
7647.0	37.5°	7669.5	7175.5	5418.6	4067.7	3665.4	3551.3	3491.4	3440.9	3410.9	3382.9
8466.5	40°	8344.9	7626.4	5250.2	3768.3	3467.1	3354.8	3265.0	3169.6	3068.5	3031.1
9334.7	42.5°	9052.2	8090.4	5046.2	3482.0	3238.8	3147.1	3051.7	2913.2	2761.7	2685.0
10236.5	45°	9785.6	8565.7	4846.0	3199.5	3004.9	2965.6	2855.2	2688.7	2524.1	2426.8
11140.3	47.5°	10504.1	9014.7	4552.3	2915.1	2786.0	2829.0	2743.0	2589.5	2406.2	2252.7
12036.5	50°	11190.8	9435.7	4071.4	2627.0	2608.3	2787.9	2705.5	2484.8	2275.2	2078.7
12915.9	52.5°	11871.8	9776.3	3455.8	2365.0	2512.8	2776.6	2656.9	2413.7	2157.3	1951.5
13742.9	55°	12450.0	9952.1	2862.7	2140.5	2374.4	2681.2	2598.9	2329.5	1990.8	1771.9
14309.8	57.5°	12779.3	9809.9	2368.8	1919.7	2183.5	2524.1	2499.7	2149.8	1792.5	1624.1
14420.2	60°	12637.1	9233.7	1964.6	1727.0	2002.0	2353.8	2327.6	1972.1	1640.9	1481.9
13829.0	62.5°	11853.1	8135.3	1644.7	1558.6	1837.4	2179.8	2155.5	1835.5	1524.9	1371.5
12259.2	65°	10274.0	6617.9	1395.8	1418.3	1670.9	1970.2	2005.8	1721.4	1433.2	1283.5
9484.4	67.5°	7836.0	4793.6	1201.2	1296.6	1508.1	1764.4	1867.3	1639.0	1356.5	1214.3
5487.8	70°	4466.2	2722.4	1036.6	1178.8	1364.0	1573.6	1760.7	1573.6	1274.2	1156.3
2056.3	72.5°	1693.3	1249.9	896.2	1060.9	1225.5	1412.6	1642.8	1470.6	1178.8	1090.8
1062.8	75°	903.7	761.5	754.0	922.4	1066.5	1255.5	1495.0	1369.6	1107.7	1152.6
735.3	77.5°	615.6	538.9	630.5	789.6	892.5	1081.5	1337.8	1216.2	959.9	956.1
508.9	80°	426.6	381.7	512.7	636.2	690.4	909.3	1167.5	1044.0	782.1	729.7
314.3	82.5°	256.3	248.9	383.6	475.2	488.3	701.6	967.3	875.7	639.9	557.6
187.1	85°	140.3	147.8	245.1	278.8	284.4	490.2	757.8	677.3	492.1	413.5
67.4	87.5°	39.3	50.5	89.8	110.4	136.6	254.5	450.9	402.3	247.0	172.1
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°
4612.1
4950.8
5166.0
5227.7
5194.0
5115.5
5006.9
4823.6
4623.4
4496.1
4391.4
4275.4
4146.3
3957.3
3712.2
3401.6
3047.9
2694.3
2419.3
2235.9
2061.9
1929.1
1753.2
1601.6
1459.4
1347.2
1259.2
1191.9
1141.3
1075.9
1190.0
881.3
697.9
561.3
417.2
172.1
0.0

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