

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: P852579

Luminaire Tested: **GLAN-SB4D-840-U-T4FT**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P852579
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-840-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35847 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

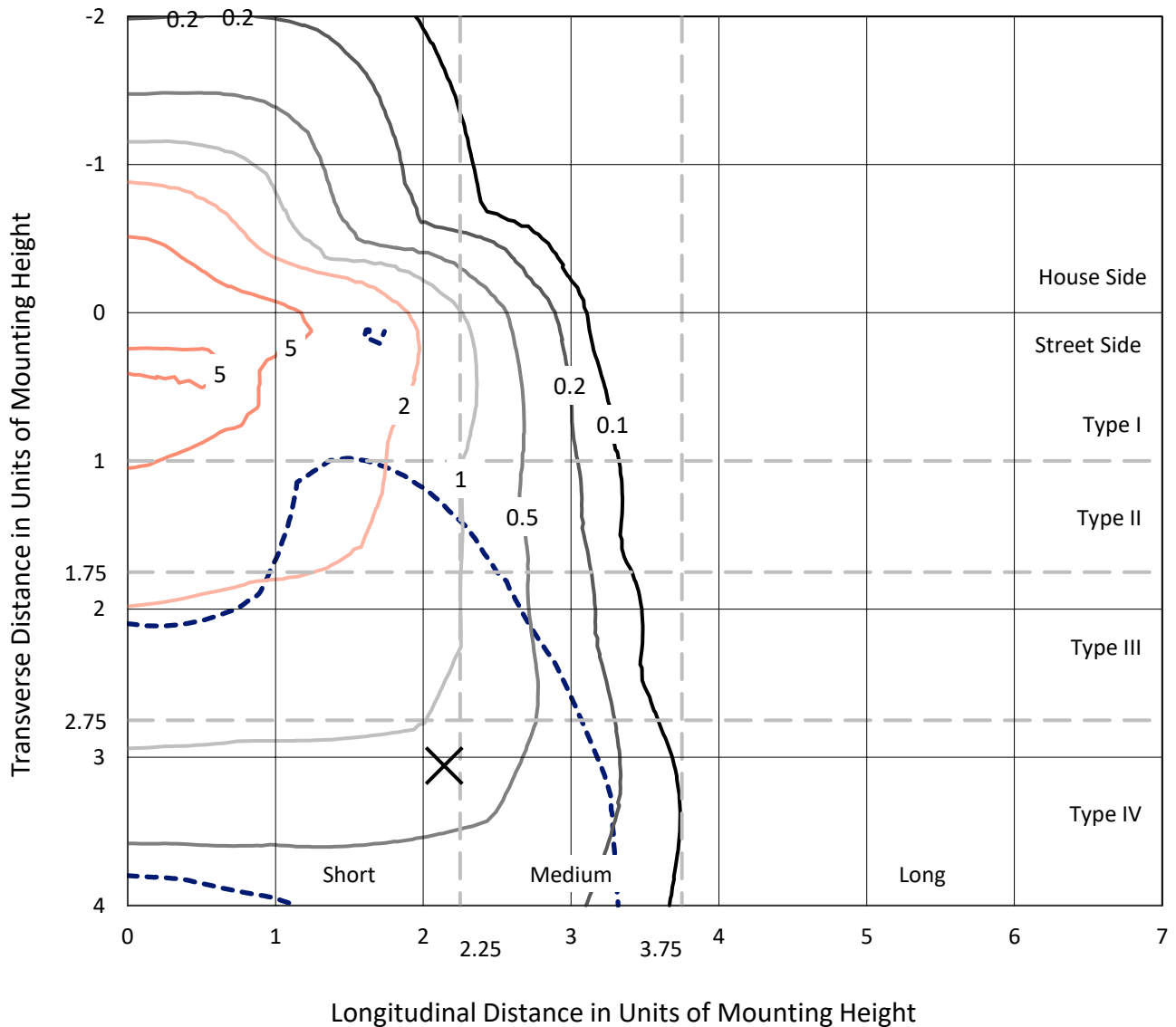
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

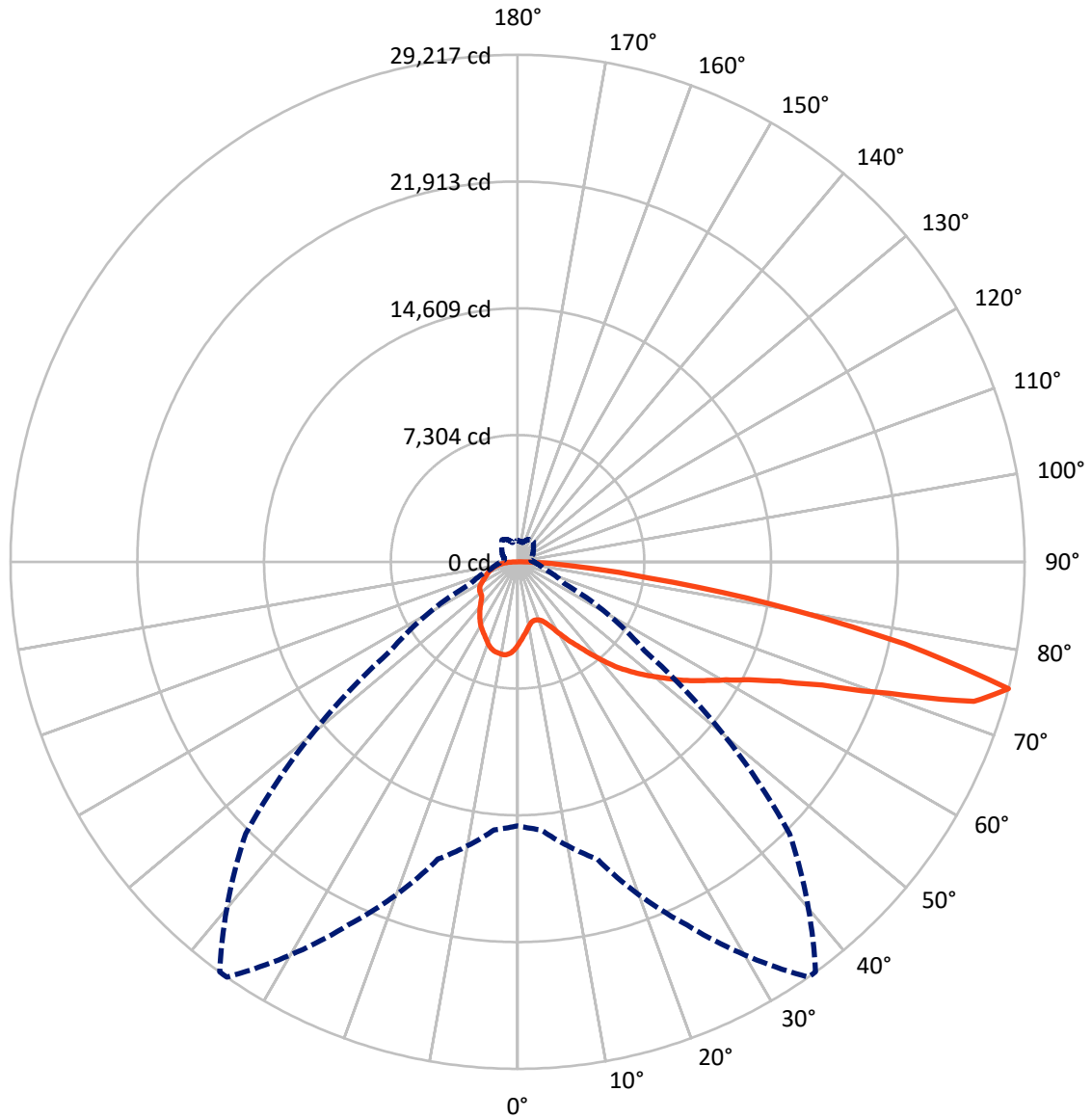
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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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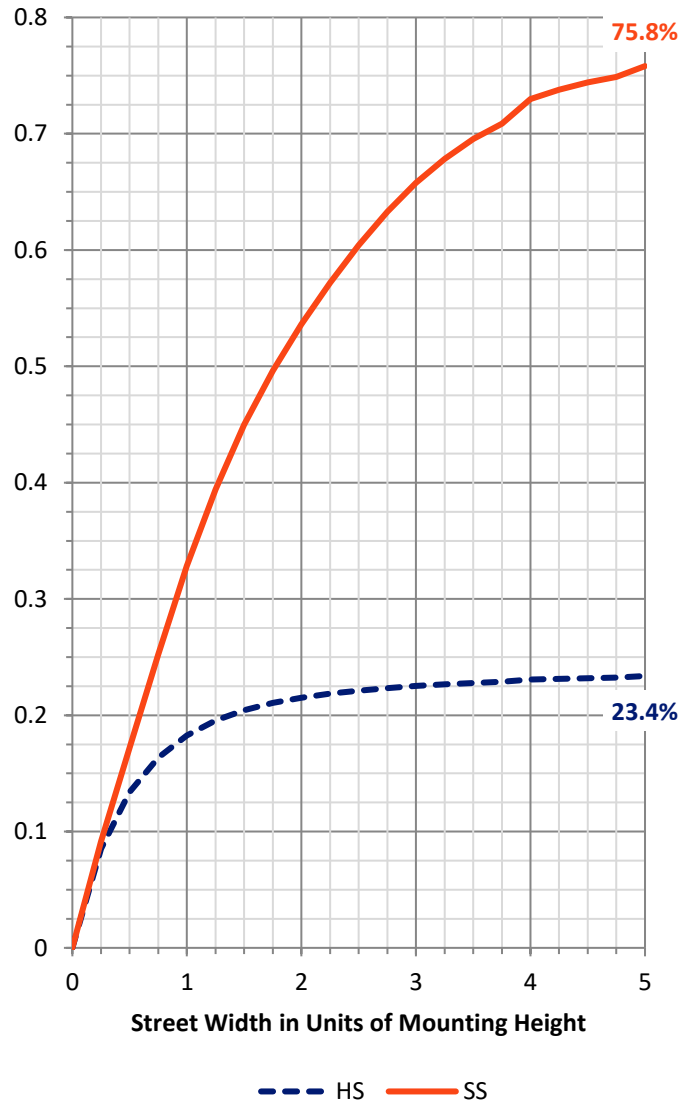
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8530.7	0.0	8530.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	27316.3	0.0	27316.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	35847.0	0.0	35847.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.3	1.3
10°-20°	1304.6	3.6
20°-30°	2190.7	6.1
30°-40°	3404.6	9.5
40°-50°	5053.4	14.1
50°-60°	6976.5	19.5
60°-70°	8464.1	23.6
70°-80°	6994.9	19.5
80°-90°	1006.1	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°	35847.0	100.0
0°-180°	35847.0	100.0

Coefficient of Utilization



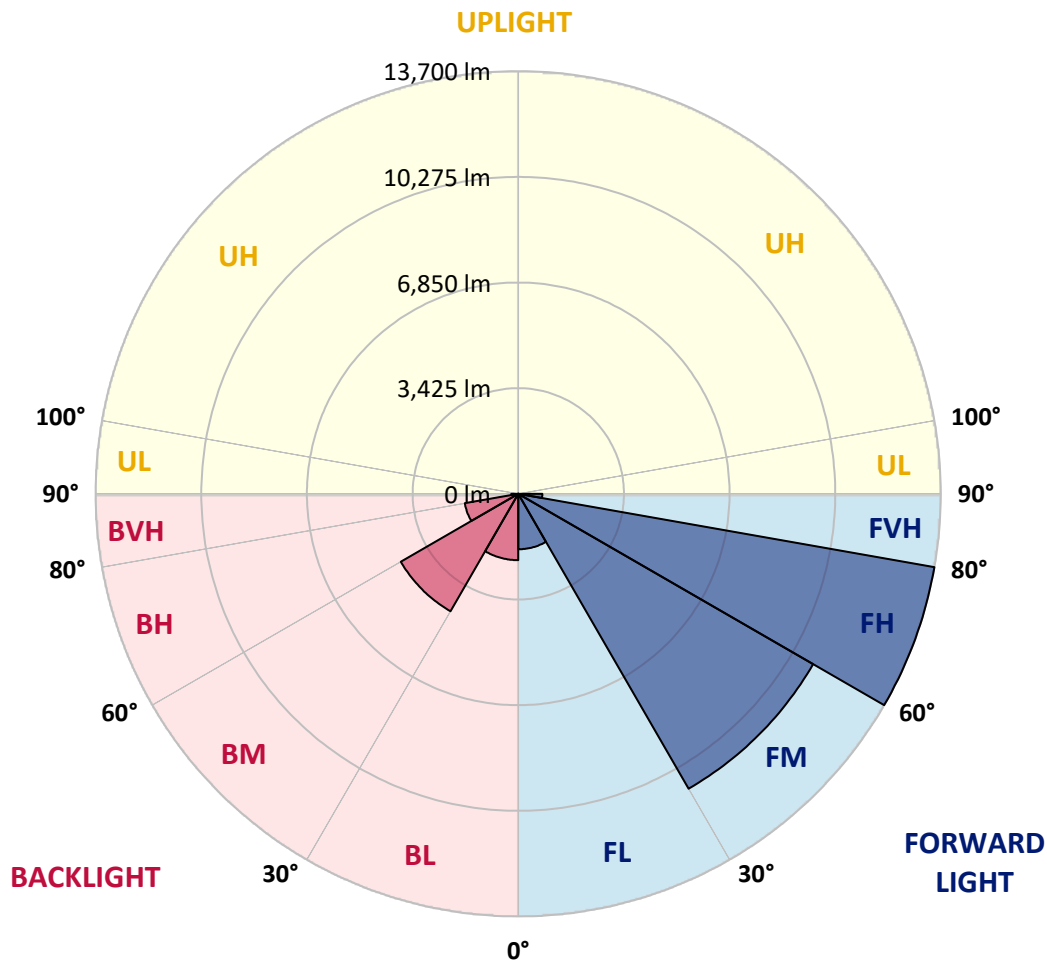
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1797.7	5.0			
FM (30°-60°)	11038.9	30.8			
FH (60°-80°)	13700.2	38.2			G5
FVH (80°-90°)	779.5	2.2			G5
BL (0°-30°)	2149.8	6.0	B3/2500		
BM (30°-60°)	4395.5	12.3	B3/5000		
BH (60°-80°)	1758.8	4.9	B3/2500		G3/2500
BVH (80°-90°)	226.5	0.6			G3/500
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°	4776.9	4776.9	4776.9	4776.9	4776.9	4776.9	4776.9	4776.9	4776.9	4776.9
2.5°	4404.8	4431.9	4443.5	4437.7	4466.8	4462.9	4503.6	4554.0	4623.8	4691.6
5°	4065.7	4094.7	4119.9	4143.2	4199.4	4216.8	4280.8	4377.7	4505.6	4635.4
7.5°	3749.8	3775.0	3813.7	3856.4	3951.3	3968.8	4075.3	4226.5	4404.8	4594.7
10°	3492.0	3517.2	3557.9	3606.4	3724.6	3745.9	3881.6	4083.1	4315.6	4555.9
12.5°	3381.6	3389.3	3412.6	3461.0	3563.7	3577.3	3726.5	3957.1	4228.4	4526.9
15°	3375.8	3391.3	3393.2	3418.4	3503.7	3509.5	3647.1	3875.7	4174.2	4521.1
17.5°	3433.9	3445.5	3428.1	3443.6	3515.3	3525.0	3633.5	3837.0	4156.7	4546.2
20°	3588.9	3598.6	3546.3	3525.0	3577.3	3585.1	3691.6	3862.2	4174.2	4598.6
22.5°	3918.4	3924.2	3796.3	3709.1	3713.0	3716.8	3809.9	3964.9	4242.0	4693.5
25°	4431.9	4428.0	4224.6	4056.0	3959.1	3937.8	3999.8	4131.5	4356.3	4819.5
27.5°	5032.7	5003.6	4800.1	4548.2	4337.0	4306.0	4292.4	4348.6	4519.1	4986.1
30°	5710.9	5683.8	5464.8	5135.4	4842.7	4792.4	4664.5	4635.4	4761.4	5212.9
32.5°	6455.1	6437.6	6176.0	5776.8	5385.3	5327.2	5112.1	5034.6	5133.4	5555.9
35°	7079.0	7063.5	6846.5	6435.7	5957.0	5885.3	5666.3	5579.1	5629.5	5995.8
37.5°	7643.0	7635.2	7449.2	7125.6	6631.4	6544.2	6298.1	6269.0	6259.3	6575.2
40°	8166.2	8146.8	7953.0	7782.5	7416.2	7336.8	7119.7	7094.6	7020.9	7288.3
42.5°	8745.6	8695.2	8414.2	8334.8	8236.0	8170.1	8040.2	8044.1	7881.3	8092.6
45°	9218.5	9189.4	8900.6	8854.1	8960.7	8933.6	9046.0	9075.1	8759.2	8935.5
47.5°	9726.2	9699.1	9454.9	9421.9	9710.7	9718.4	10115.7	10125.4	9615.7	9811.4
50°	10352.1	10313.4	10071.1	10111.8	10435.4	10464.5	11191.2	11125.3	10404.4	10700.9
52.5°	10764.9	10788.1	10735.8	10801.7	11243.5	11270.7	12249.3	12080.7	11185.4	11578.8
55°	11069.1	11115.6	11278.4	11429.6	12096.2	12123.3	13247.3	12989.6	11832.6	12392.7
57.5°	11460.6	11394.7	11698.9	11993.5	12906.2	12977.9	14218.2	13865.5	12406.3	13094.2
60°	12022.6	11976.1	12212.5	12648.5	13813.2	13927.5	15245.2	14654.2	12826.8	13650.4
62.5°	13162.0	13045.8	13082.6	13468.2	14956.5	15107.7	16404.1	15342.1	13036.1	13867.4
65°	14865.4	14665.8	14479.8	14747.2	16566.9	16716.1	17712.2	15882.8	12958.6	13446.9
67.5°	17010.6	16813.0	16584.3	16836.2	18938.8	19057.0	19326.4	16187.0	12348.1	11826.8
70°	18779.9	18706.3	18979.5	20016.3	22727.4	22731.2	21396.0	15935.1	10675.7	8385.2
72.5°	18545.4	18500.9	19940.7	23145.9	27502.3	27399.6	23355.2	14028.3	7191.4	3782.7
75°	15214.2	15503.0	17733.5	23089.7	29217.3	29203.7	22155.7	8918.1	2974.6	1567.7
77.5°	8158.4	8615.8	11512.9	17047.5	22808.8	23151.8	15576.6	3120.0	1277.1	1003.8
80°	2660.7	3059.9	4588.9	8679.7	14820.8	14756.9	6676.0	1224.7	874.0	711.2
82.5°	1129.8	1176.3	2050.3	4098.6	7606.1	7487.9	2125.8	703.4	614.3	486.4
85°	441.8	494.2	905.0	1895.2	3294.4	3222.7	767.4	348.8	393.4	317.8
87.5°	145.3	176.3	323.6	649.2	1025.1	988.3	188.0	120.1	170.5	145.3
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°
4776.9	0°	4776.9	4776.9	4776.9	4776.9	4776.9	4776.9	4776.9	4776.9	4776.9	4776.9
4790.4	2.5°	4817.6	4848.6	4885.4	4939.6	4986.1	5024.9	5065.6	5090.8	5100.5	5129.5
4798.2	5°	4852.4	4920.3	5011.3	5100.5	5187.7	5240.0	5286.5	5309.8	5331.1	5346.6
4819.5	7.5°	4910.6	4997.8	5141.2	5257.4	5331.1	5373.7	5404.7	5397.0	5404.7	5408.6
4842.7	10°	4961.0	5083.0	5253.6	5364.0	5420.2	5422.2	5414.4	5387.3	5373.7	5375.7
4877.6	12.5°	5021.0	5156.7	5340.8	5433.8	5449.3	5406.7	5373.7	5327.2	5309.8	5302.0
4929.9	15°	5102.4	5257.4	5435.7	5470.6	5431.9	5377.6	5321.4	5245.8	5207.1	5176.1
5019.1	17.5°	5201.2	5371.8	5509.4	5484.2	5400.9	5311.7	5220.6	5106.3	5026.8	4993.9
5141.2	20°	5338.8	5491.9	5565.6	5455.1	5329.1	5193.5	5038.5	4898.9	4825.3	4792.4
5296.2	22.5°	5505.5	5652.8	5619.8	5404.7	5226.4	5009.4	4815.6	4712.9	4676.1	4652.8
5495.8	25°	5705.1	5831.1	5658.6	5331.1	5057.8	4765.2	4616.0	4583.1	4565.6	4548.2
5740.0	27.5°	5964.8	6032.6	5687.7	5222.6	4794.3	4505.6	4451.3	4457.1	4451.3	4422.2
6079.1	30°	6307.8	6294.2	5714.8	5046.2	4492.0	4271.1	4274.9	4300.1	4304.0	4284.6
6551.9	32.5°	6759.3	6621.7	5728.4	4817.6	4203.2	4065.7	4069.5	4096.7	4116.0	4083.1
7170.1	35°	7305.8	7003.5	5707.0	4530.7	3980.4	3869.9	3840.9	3848.6	3854.4	3823.4
7920.1	37.5°	7943.3	7431.7	5612.1	4212.9	3796.3	3678.1	3616.1	3563.7	3532.7	3503.7
8768.9	40°	8642.9	7898.8	5437.7	3902.9	3590.9	3474.6	3381.6	3282.8	3178.1	3139.4
9668.0	42.5°	9375.4	8379.4	5226.4	3606.4	3354.5	3259.5	3160.7	3017.3	2860.3	2780.8
10602.1	45°	10135.1	8871.6	5019.1	3313.8	3112.2	3071.5	2957.2	2784.7	2614.2	2513.4
11538.1	47.5°	10879.2	9336.7	4714.8	3019.2	2885.5	2930.1	2840.9	2682.0	2492.1	2333.2
12466.3	50°	11590.4	9772.7	4216.8	2720.8	2701.4	2887.4	2802.2	2573.5	2356.5	2153.0
13377.1	52.5°	12295.8	10125.4	3579.3	2449.5	2602.6	2875.8	2751.8	2499.9	2234.4	2021.2
14233.7	55°	12894.6	10307.5	2964.9	2216.9	2459.2	2777.0	2691.7	2412.7	2061.9	1835.2
14820.8	57.5°	13235.7	10160.3	2453.3	1988.3	2261.5	2614.2	2589.0	2226.6	1856.5	1682.1
14935.2	60°	13088.4	9563.4	2034.8	1788.7	2073.5	2437.8	2410.7	2042.5	1699.5	1534.8
14322.8	62.5°	12276.4	8425.9	1703.4	1614.2	1903.0	2257.6	2232.4	1901.1	1579.4	1420.5
12696.9	65°	10640.9	6854.3	1445.7	1468.9	1730.5	2040.6	2077.4	1782.8	1484.4	1329.4
9823.1	67.5°	8115.8	4964.8	1244.1	1342.9	1561.9	1827.4	1934.0	1697.6	1405.0	1257.7
5683.8	70°	4625.7	2819.6	1073.6	1220.9	1412.7	1629.8	1823.5	1629.8	1319.7	1197.6
2129.7	72.5°	1753.8	1294.5	928.2	1098.8	1269.3	1463.1	1701.5	1523.2	1220.9	1129.8
1100.7	75°	936.0	788.7	781.0	955.4	1104.6	1300.3	1548.4	1418.5	1147.2	1193.7
761.6	77.5°	637.6	558.1	653.1	817.8	924.4	1120.1	1385.6	1259.6	994.1	990.3
527.1	80°	441.8	395.3	531.0	658.9	715.1	941.8	1209.2	1081.3	810.0	755.8
325.6	82.5°	265.5	257.7	397.3	492.2	505.8	726.7	1001.9	906.9	662.8	577.5
193.8	85°	145.3	153.1	253.9	288.7	294.6	507.7	784.8	701.5	509.7	428.3
69.8	87.5°	40.7	52.3	93.0	114.3	141.5	263.6	467.0	416.6	255.8	178.3
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°
4776.9
5127.6
5350.5
5414.4
5379.5
5298.1
5185.7
4995.8
4788.5
4656.7
4548.2
4428.0
4294.3
4098.6
3844.7
3523.1
3156.8
2790.5
2505.7
2315.8
2135.5
1997.9
1815.8
1658.8
1511.5
1395.3
1304.2
1234.4
1182.1
1114.3
1232.5
912.7
722.8
581.4
432.1
178.3
0.0

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