

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: P848343

Luminaire Tested: **GLAN-SB4D-840-U-SL4**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB4D-840-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35952 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

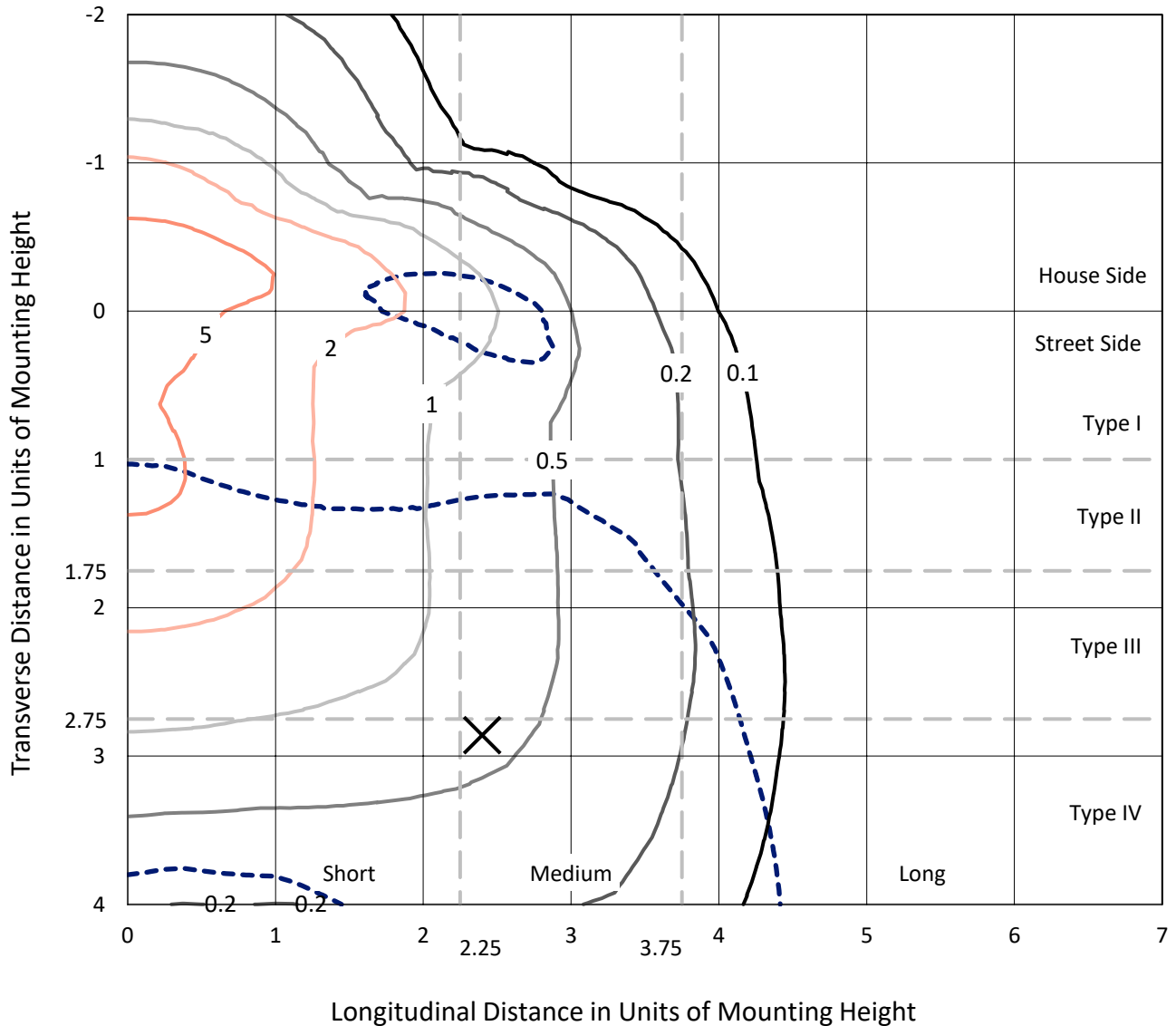
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

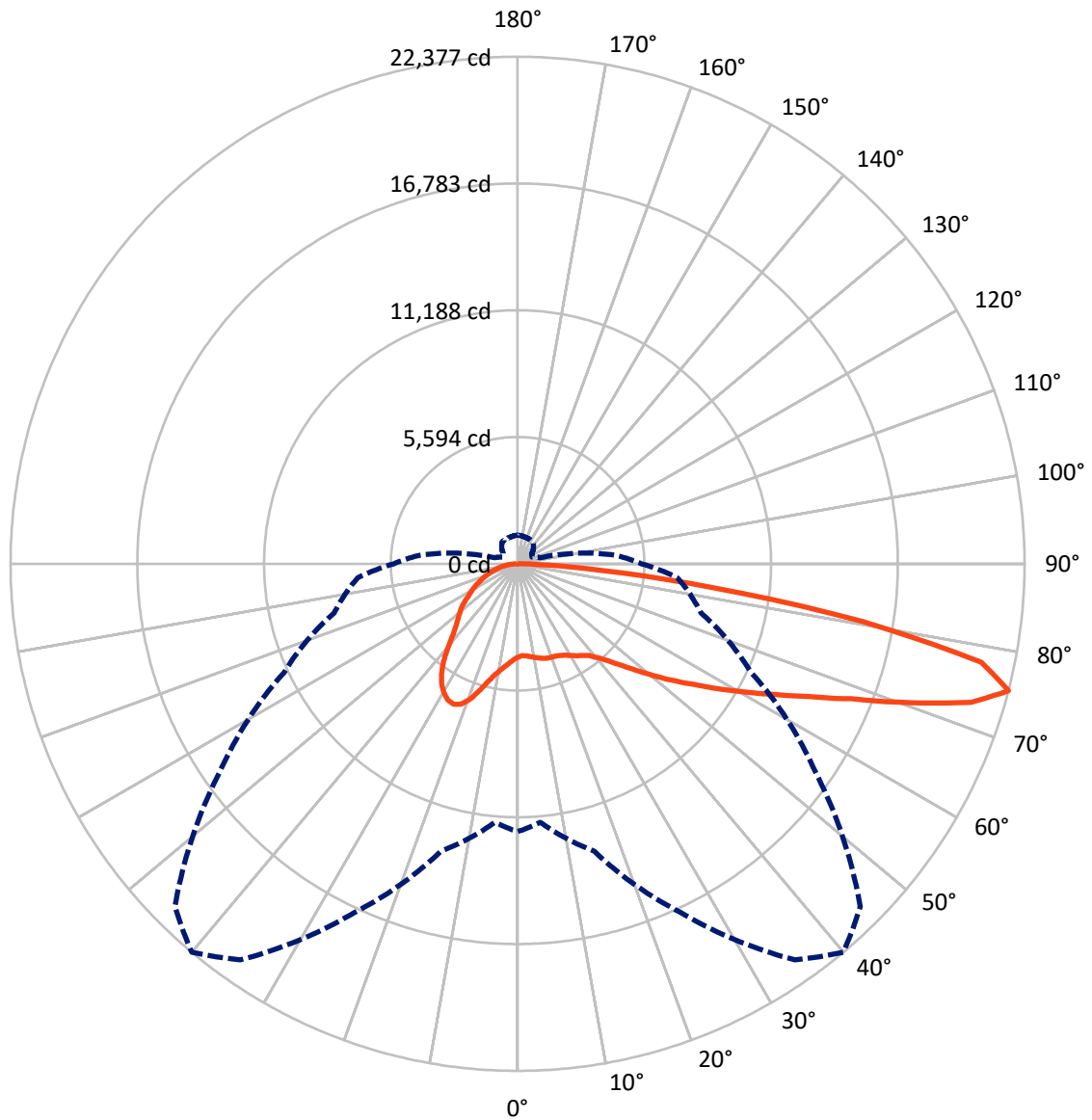
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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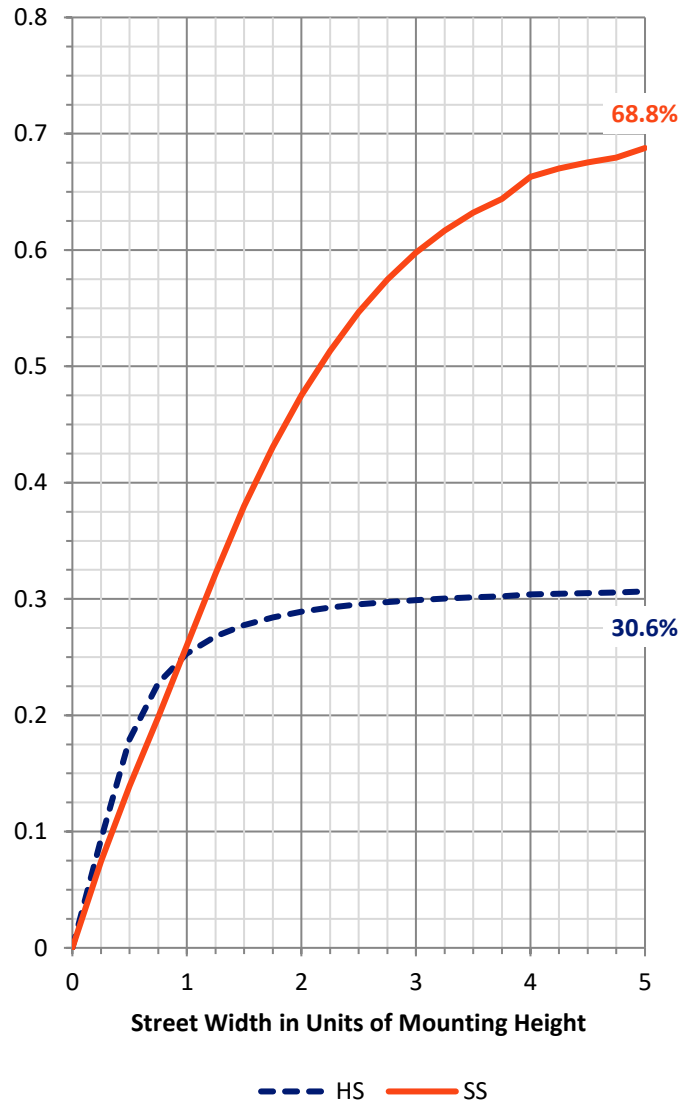
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11139.1	0.0	11139.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	24812.9	0.0	24812.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	35952.0	0.0	35952.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.4	1.1
10°-20°	1377.8	3.8
20°-30°	2515.8	7.0
30°-40°	3568.0	9.9
40°-50°	4817.9	13.4
50°-60°	6481.4	18.0
60°-70°	8226.4	22.9
70°-80°	7466.0	20.8
80°-90°	1088.3	3.0
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°	35952.0	100.0
0°-180°	35952.0	100.0

Coefficient of Utilization

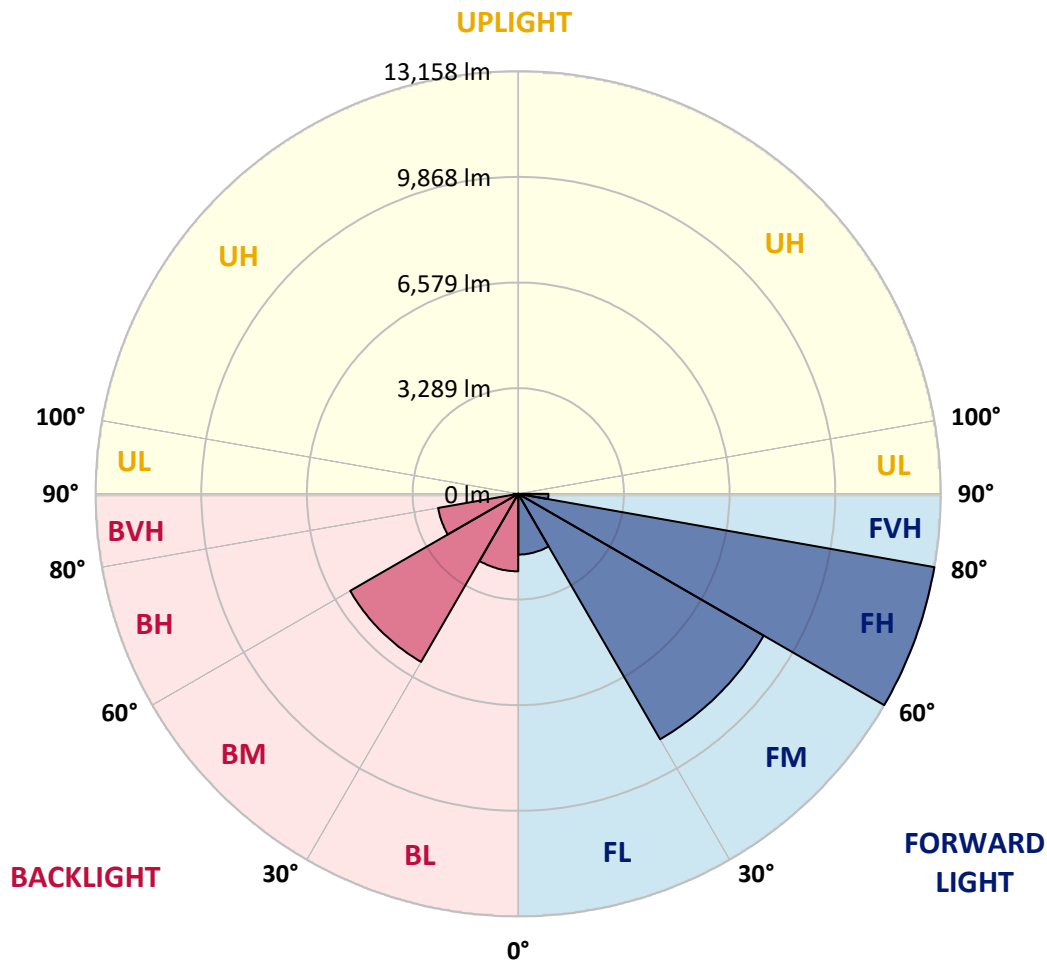


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1891.1	5.3			
FM (30°-60°)	8825.4	24.5			
FH (60°-80°)	13157.9	36.6			G5
FVH (80°-90°)	938.5	2.6			G5
BL (0°-30°)	2412.8	6.7	B3/2500		
BM (30°-60°)	6042.0	16.8	B4/8500		
BH (60°-80°)	2534.5	7.0	B4/5000		G4/5000
BVH (80°-90°)	149.8	0.4			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	4111.2	4111.2	4111.2	4111.2	4111.2	4111.2	4111.2	4111.2	4111.2	4111.2
2.5°	4048.2	4071.1	4065.4	4057.8	4057.8	4059.7	4057.8	4071.1	4084.5	4097.8
5°	4090.2	4113.1	4101.6	4092.1	4084.5	4082.6	4076.8	4074.9	4082.6	4099.7
7.5°	4172.2	4195.1	4177.9	4160.7	4145.5	4137.9	4130.2	4118.8	4113.1	4122.6
10°	4263.7	4286.6	4265.6	4235.1	4210.3	4200.8	4193.2	4181.7	4174.1	4179.8
12.5°	4355.2	4378.1	4349.5	4307.6	4275.1	4269.4	4259.9	4256.1	4254.2	4252.3
15°	4441.0	4460.1	4423.9	4374.3	4340.0	4330.4	4320.9	4326.6	4336.2	4347.6
17.5°	4507.8	4526.9	4473.5	4408.6	4376.2	4372.4	4366.7	4385.7	4412.4	4441.0
20°	4568.8	4587.9	4519.2	4431.5	4393.4	4393.4	4395.3	4435.3	4473.5	4515.4
22.5°	4654.6	4669.9	4586.0	4465.8	4410.5	4414.3	4429.6	4469.6	4517.3	4574.5
25°	4782.4	4793.8	4690.8	4530.7	4467.7	4479.2	4492.5	4511.6	4557.4	4624.1
27.5°	4988.3	4997.8	4862.5	4645.1	4549.7	4568.8	4587.9	4574.5	4595.5	4652.7
30°	5278.1	5283.9	5112.3	4824.3	4688.9	4698.5	4702.3	4647.0	4606.9	4652.7
32.5°	5621.4	5619.5	5415.4	5041.7	4847.2	4837.7	4805.3	4696.6	4603.1	4643.2
35°	6153.4	6132.4	5869.3	5346.8	5026.4	4967.3	4891.1	4751.9	4622.2	4633.6
37.5°	7034.4	6969.5	6605.3	5846.4	5293.4	5142.8	5030.3	4841.5	4664.1	4629.8
40°	8027.8	7945.8	7545.4	6530.9	5693.8	5451.7	5270.5	4969.2	4732.8	4647.0
42.5°	9206.3	9089.9	8659.0	7337.5	6201.1	5850.2	5577.5	5131.3	4833.9	4702.3
45°	10653.5	10499.1	9888.9	8247.1	6839.9	6372.7	6008.5	5377.3	4988.3	4809.1
47.5°	12116.1	12154.2	11286.6	9288.2	7606.4	7017.2	6548.1	5747.2	5213.3	4980.7
50°	13670.2	13696.9	12676.7	10441.9	8475.9	7745.6	7154.5	6161.0	5526.0	5224.8
52.5°	14882.9	14886.7	13939.0	11648.9	9381.7	8546.5	7808.5	6633.9	5888.3	5548.9
55°	15641.9	15632.3	14823.8	12791.1	10422.8	9387.4	8533.1	7171.6	6330.7	5930.3
57.5°	16192.9	16164.3	15434.0	13773.1	11532.6	10380.9	9353.1	7781.8	6853.2	6384.1
60°	16402.7	16385.5	15847.8	14621.7	12699.6	11479.2	10298.9	8464.5	7446.2	6919.9
62.5°	16482.8	16515.2	16254.0	15443.5	13948.6	12695.8	11338.1	9280.6	8113.6	7526.3
65°	16765.0	16824.1	16770.7	16519.0	15359.6	14120.2	12716.8	10251.2	8842.0	8176.6
67.5°	17323.7	17382.8	17405.7	17806.1	17083.4	15895.5	14436.7	11460.1	9694.4	8851.6
70°	17310.3	17293.2	17697.4	18830.1	19242.0	18353.4	16755.5	12947.5	10710.8	9412.2
72.5°	15756.3	15619.0	16574.3	18818.7	21038.2	20920.0	19587.1	14865.8	11587.9	9480.8
75°	11820.5	11454.4	13142.0	16959.5	21337.6	22376.8	21387.2	16055.6	11380.1	8376.8
77.5°	5055.0	4687.0	6675.9	12554.7	19097.1	20918.1	19735.9	14007.7	9084.2	5539.4
80°	1323.4	1321.4	2017.4	5691.9	12987.5	15447.4	13552.0	9046.1	5190.4	1979.3
82.5°	547.3	533.9	741.8	2213.8	6346.0	8668.5	7074.4	4034.9	1874.4	535.8
85°	204.0	202.1	360.4	764.6	2238.6	3575.3	2587.6	1031.6	467.2	261.2
87.5°	57.2	55.3	78.2	265.1	545.4	827.6	442.4	169.7	131.6	103.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4111.2	0°	4111.2	4111.2	4111.2	4111.2	4111.2	4111.2	4111.2	4111.2	4111.2	4111.2
4118.8	2.5°	4124.5	4134.0	4151.2	4164.6	4181.7	4200.8	4227.5	4244.6	4261.8	4273.2
4128.3	5°	4141.7	4162.6	4206.5	4250.4	4301.8	4349.5	4404.8	4444.9	4477.3	4486.8
4162.6	7.5°	4179.8	4214.1	4288.5	4362.9	4444.9	4523.0	4603.1	4671.8	4727.1	4748.0
4223.7	10°	4246.5	4292.3	4397.2	4502.1	4610.8	4730.9	4833.9	4933.0	5011.2	5043.6
4296.1	12.5°	4330.4	4387.7	4524.9	4669.9	4820.5	4986.4	5119.9	5241.9	5339.2	5383.0
4397.2	15°	4439.1	4513.5	4688.9	4883.4	5104.6	5335.4	5505.1	5640.4	5749.1	5802.5
4502.1	17.5°	4557.4	4656.5	4877.7	5171.4	5487.9	5791.1	5989.4	6088.6	6201.1	6252.5
4599.3	20°	4671.8	4793.8	5110.3	5537.5	5958.9	6281.1	6441.3	6468.0	6475.6	6481.4
4690.8	22.5°	4790.0	4954.0	5402.1	5998.9	6450.9	6674.0	6696.8	6582.4	6422.3	6347.9
4780.5	25°	4919.7	5137.0	5783.5	6508.1	6874.2	6900.9	6725.4	6447.0	6143.9	6004.7
4852.9	27.5°	5045.5	5348.7	6241.1	6994.3	7179.3	6944.7	6567.2	6172.5	5806.3	5659.5
4904.4	30°	5171.4	5590.9	6746.4	7419.5	7318.5	6836.0	6317.4	5876.9	5508.9	5354.4
4950.2	32.5°	5299.1	5873.1	7328.0	7726.5	7293.7	6605.3	6006.6	5545.1	5220.9	5058.9
4990.2	35°	5444.0	6220.1	7879.1	7894.3	7127.8	6265.9	5596.6	5148.5	4866.3	4736.6
5037.9	37.5°	5632.8	6660.6	8365.3	7936.3	6837.9	5768.2	5087.5	4679.4	4446.8	4387.7
5108.4	40°	5867.4	7190.7	8737.2	7869.6	6408.9	5163.7	4530.7	4204.6	4073.0	4086.4
5203.8	42.5°	6172.5	7783.7	8998.4	7697.9	5812.1	4540.2	4042.5	3897.6	3960.5	4013.9
5346.8	45°	6569.1	8399.7	9160.5	7406.2	5137.0	4012.0	3754.6	3788.9	3836.6	3842.3
5577.5	47.5°	7076.3	9023.2	9267.3	6965.7	4448.7	3640.2	3571.5	3579.1	3569.6	3529.6
5922.7	50°	7709.4	9629.6	9362.6	6382.2	3863.3	3407.5	3316.0	3289.3	3157.7	3028.1
6382.2	52.5°	8430.2	10186.4	9402.7	5657.6	3407.5	3213.0	3064.3	2896.5	2650.5	2610.5
6960.0	55°	9231.0	10701.2	9299.7	4767.1	3024.3	2963.2	2738.2	2536.1	2509.4	2475.1
7720.8	57.5°	10188.3	11256.1	9089.9	3773.6	2631.4	2671.5	2452.2	2475.1	2427.4	2374.0
8699.0	60°	11235.1	11830.1	8721.9	2867.9	2225.3	2307.3	2377.8	2375.9	2362.6	2318.7
9730.6	62.5°	12177.1	12207.6	7997.3	2196.7	1868.7	2025.1	2217.7	2215.8	2204.3	2179.5
10808.0	65°	12737.7	12150.4	6788.4	1729.5	1575.1	1792.4	2000.3	2015.5	2017.4	2015.5
11618.4	67.5°	12638.6	11481.1	5129.4	1376.7	1332.9	1556.0	1784.8	1805.8	1821.0	1824.9
11721.4	70°	11517.3	10010.9	3344.6	1098.3	1117.4	1348.1	1580.8	1601.8	1615.1	1630.4
10171.1	72.5°	8977.4	7360.4	1914.5	888.6	928.6	1168.9	1378.6	1403.4	1411.1	1439.7
7078.2	75°	5470.7	4328.5	1033.5	699.8	762.7	999.2	1178.4	1207.0	1220.4	1254.7
3476.2	77.5°	2600.9	1874.4	589.2	545.4	614.0	816.1	995.4	1027.8	991.6	1010.6
959.1	80°	879.1	696.0	371.8	415.7	469.1	636.9	797.1	829.5	753.2	749.4
318.4	82.5°	307.0	282.2	236.4	276.5	303.2	455.7	602.6	644.5	560.6	558.7
143.0	85°	120.1	114.4	131.6	150.6	181.2	280.3	396.6	417.6	345.1	278.4
42.0	87.5°	24.8	26.7	32.4	34.3	55.3	97.2	143.0	175.4	139.2	118.2
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°
4111.2
4265.6
4490.6
4750.0
5045.5
5383.0
5798.7
6250.6
6496.6
6368.9
6025.6
5676.7
5371.6
5079.8
4765.2
4429.6
4132.1
4063.5
3880.4
3560.1
3045.2
2623.8
2480.8
2364.5
2303.5
2170.0
2015.5
1828.7
1638.0
1451.1
1258.5
995.4
741.8
532.0
274.6
108.7
0.0

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