

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: P848353

Luminaire Tested: **GLAN-SB4D-850-U-SL4**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848353
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-850-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 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: 34712 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

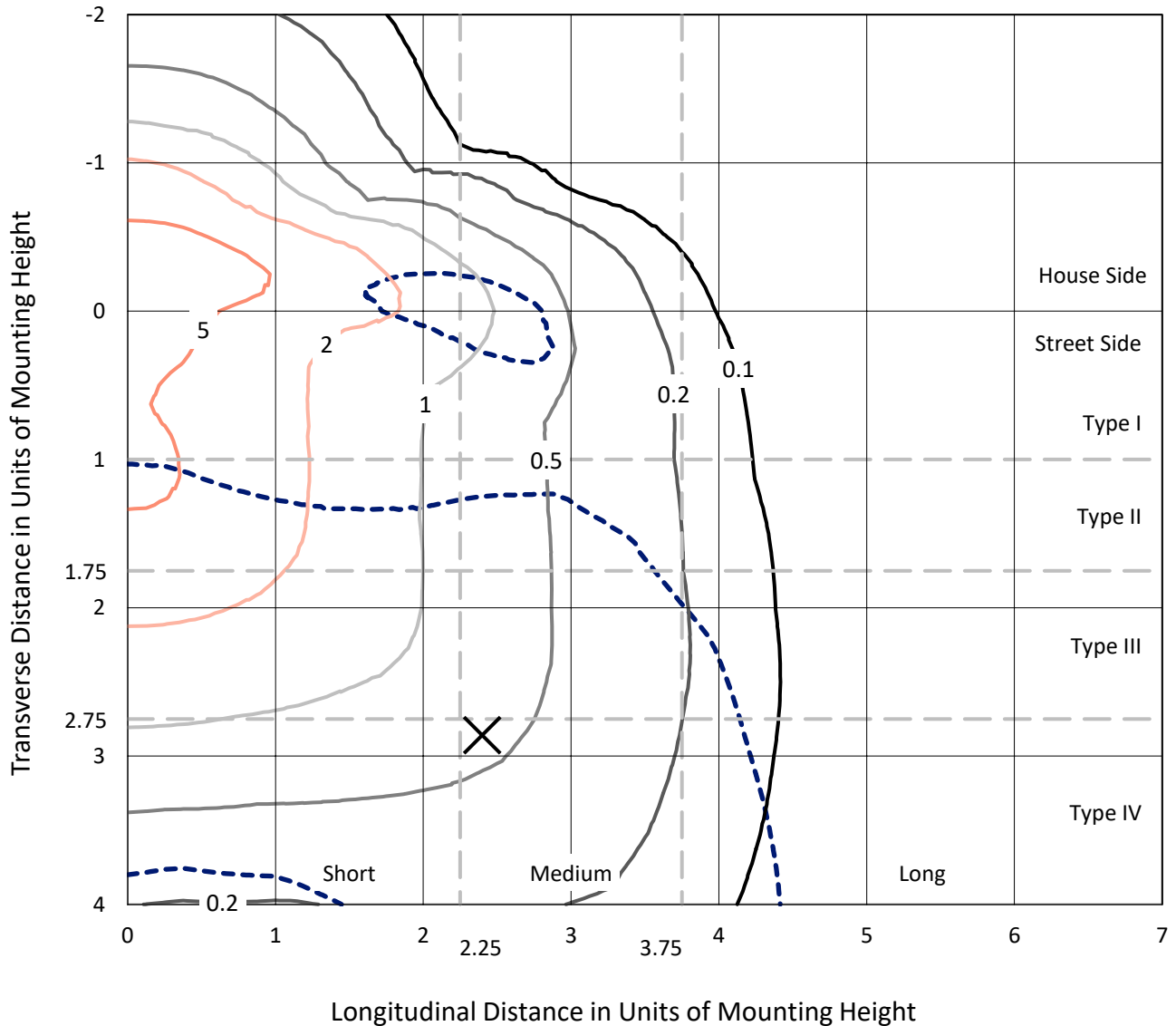
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

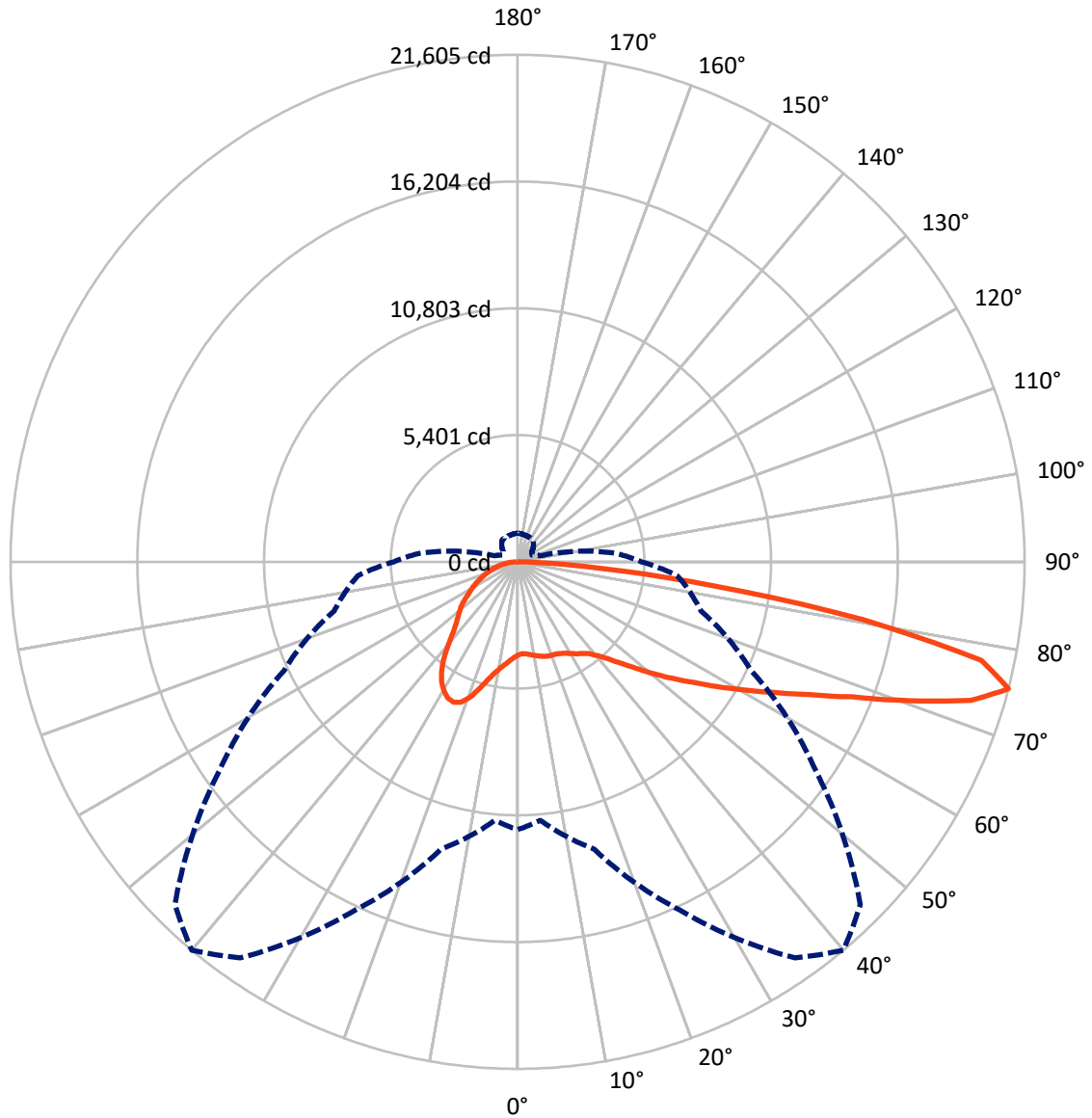
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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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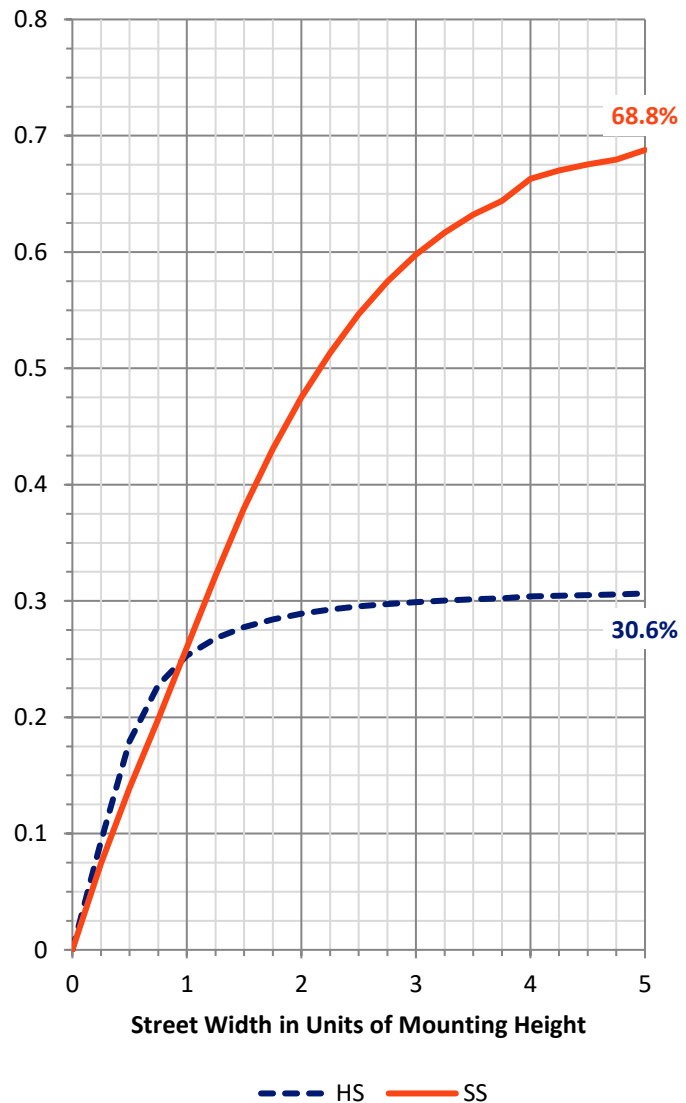
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10754.9	0.0	10754.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	23957.1	0.0	23957.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	34712.0	0.0	34712.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.2	1.1
10°-20°	1330.3	3.8
20°-30°	2429.0	7.0
30°-40°	3445.0	9.9
40°-50°	4651.8	13.4
50°-60°	6257.9	18.0
60°-70°	7942.7	22.9
70°-80°	7208.5	20.8
80°-90°	1050.8	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°	34712.0	100.0
0°-180°	34712.0	100.0

Coefficient of Utilization

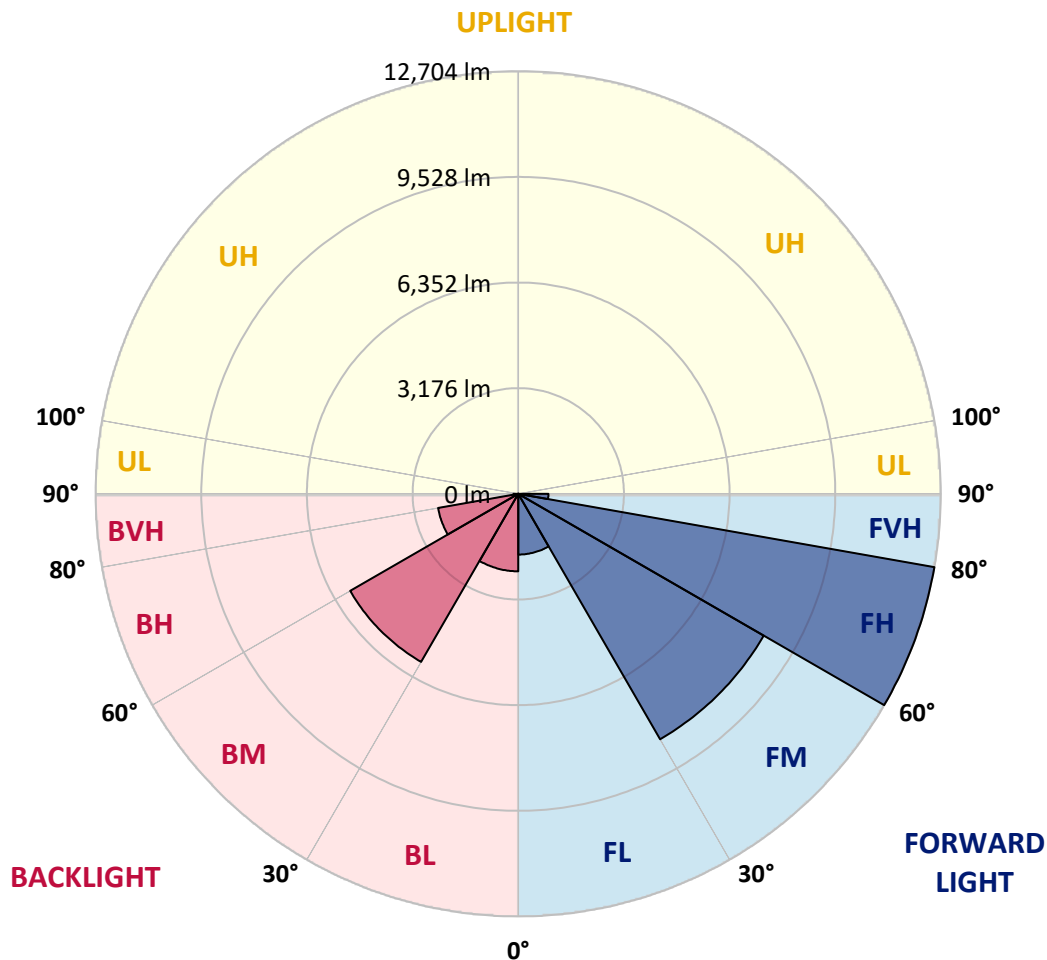


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1825.9	5.3			
FM (30°-60°)	8521.0	24.5			
FH (60°-80°)	12704.1	36.6			G5
FVH (80°-90°)	906.1	2.6			G5
BL (0°-30°)	2329.6	6.7	B3/2500		
BM (30°-60°)	5833.6	16.8	B4/8500		
BH (60°-80°)	2447.1	7.0	B3/2500		G3/2500
BVH (80°-90°)	144.7	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°	3969.4	3969.4	3969.4	3969.4	3969.4	3969.4	3969.4	3969.4	3969.4	3969.4
2.5°	3908.6	3930.7	3925.2	3917.8	3917.8	3919.7	3917.8	3930.7	3943.6	3956.5
5°	3949.1	3971.2	3960.2	3951.0	3943.6	3941.7	3936.2	3934.4	3941.7	3958.3
7.5°	4028.3	4050.4	4033.8	4017.2	4002.5	3995.1	3987.8	3976.7	3971.2	3980.4
10°	4116.6	4138.7	4118.5	4089.0	4065.1	4055.9	4048.5	4037.5	4030.1	4035.6
12.5°	4205.0	4227.1	4199.5	4159.0	4127.7	4122.2	4113.0	4109.3	4107.4	4105.6
15°	4287.9	4306.3	4271.3	4223.4	4190.3	4181.1	4171.9	4177.4	4186.6	4197.7
17.5°	4352.3	4370.7	4319.2	4256.6	4225.3	4221.6	4216.1	4234.5	4260.3	4287.9
20°	4411.2	4429.6	4363.4	4278.7	4241.8	4241.8	4243.7	4282.3	4319.2	4359.7
22.5°	4494.1	4508.8	4427.8	4311.8	4258.4	4262.1	4276.8	4315.5	4361.5	4416.7
25°	4617.4	4628.5	4529.1	4374.4	4313.6	4324.7	4337.6	4356.0	4400.2	4464.6
27.5°	4816.3	4825.5	4694.7	4484.9	4392.8	4411.2	4429.6	4416.7	4437.0	4492.2
30°	5096.1	5101.6	4935.9	4657.9	4527.2	4536.4	4540.1	4486.7	4448.0	4492.2
32.5°	5427.5	5425.7	5228.7	4867.8	4680.0	4670.8	4639.5	4534.6	4444.4	4483.0
35°	5941.2	5920.9	5666.8	5162.4	4853.1	4796.0	4722.4	4588.0	4462.8	4473.8
37.5°	6791.7	6729.1	6377.5	5644.7	5110.8	4965.4	4856.8	4674.5	4503.3	4470.1
40°	7750.9	7671.8	7285.1	6305.7	5497.5	5263.6	5088.7	4797.8	4569.6	4486.7
42.5°	8888.7	8776.4	8360.3	7084.5	5987.2	5648.4	5385.2	4954.3	4667.1	4540.1
45°	10286.1	10137.0	9547.8	7962.7	6603.9	6152.9	5801.2	5191.8	4816.3	4643.2
47.5°	11698.2	11735.0	10897.3	8967.9	7344.1	6775.2	6322.3	5549.0	5033.5	4808.9
50°	13198.7	13224.5	12239.5	10081.7	8183.6	7478.5	6907.7	5948.5	5335.4	5044.6
52.5°	14369.6	14373.3	13458.3	11247.1	9058.1	8251.7	7539.2	6405.1	5685.2	5357.5
55°	15102.4	15093.2	14312.5	12349.9	10063.3	9063.6	8238.8	6924.3	6112.4	5725.8
57.5°	15634.4	15606.8	14901.7	13298.1	11134.8	10022.8	9030.5	7513.4	6616.8	6163.9
60°	15837.0	15820.4	15301.2	14117.4	12261.6	11083.3	9943.7	8172.5	7189.4	6681.3
62.5°	15914.3	15945.6	15693.3	14910.9	13467.5	12257.9	10947.0	8960.5	7833.8	7266.7
65°	16186.8	16243.8	16192.3	15949.3	14829.9	13633.2	12278.1	9897.6	8537.1	7894.5
67.5°	16726.2	16783.3	16805.4	17192.0	16494.2	15347.2	13938.8	11064.9	9360.0	8546.3
70°	16713.3	16696.7	17087.0	18180.6	18578.3	17720.4	16177.5	12500.9	10341.3	9087.6
72.5°	15212.8	15080.3	16002.6	18169.6	20312.6	20198.5	18911.5	14353.0	11188.2	9153.8
75°	11412.8	11059.4	12688.7	16374.5	20601.7	21605.0	20649.5	15501.9	10987.6	8087.9
77.5°	4880.7	4525.4	6445.6	12121.7	18438.4	20196.6	19055.2	13524.6	8770.9	5348.3
80°	1277.7	1275.9	1947.9	5495.6	12539.6	14914.6	13084.5	8734.1	5011.4	1911.0
82.5°	528.4	515.5	716.2	2137.5	6127.1	8369.5	6830.4	3895.7	1809.8	517.3
85°	197.0	195.2	348.0	738.3	2161.4	3452.0	2498.3	996.0	451.1	252.2
87.5°	55.2	53.4	75.5	255.9	526.5	799.0	427.1	163.9	127.0	99.4
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°
3969.4	0°	3969.4	3969.4	3969.4	3969.4	3969.4	3969.4	3969.4	3969.4	3969.4	3969.4
3976.7	2.5°	3982.3	3991.5	4008.0	4020.9	4037.5	4055.9	4081.7	4098.2	4114.8	4125.9
3985.9	5°	3998.8	4019.1	4061.4	4103.8	4153.5	4199.5	4252.9	4291.6	4322.9	4332.1
4019.1	7.5°	4035.6	4068.8	4140.6	4212.4	4291.6	4367.0	4444.4	4510.6	4564.0	4584.3
4078.0	10°	4100.1	4144.3	4245.5	4346.8	4451.7	4567.7	4667.1	4762.9	4838.4	4869.7
4147.9	12.5°	4181.1	4236.3	4368.9	4508.8	4654.2	4814.4	4943.3	5061.1	5155.0	5197.4
4245.5	15°	4286.0	4357.8	4527.2	4715.0	4928.6	5151.3	5315.2	5445.9	5550.8	5602.4
4346.8	17.5°	4400.2	4495.9	4709.5	4993.0	5298.6	5591.4	5782.8	5878.6	5987.2	6036.9
4440.7	20°	4510.6	4628.5	4934.1	5346.5	5753.4	6064.5	6219.2	6244.9	6252.3	6257.8
4529.1	22.5°	4624.8	4783.1	5215.8	5792.0	6228.4	6443.8	6465.9	6355.4	6200.7	6128.9
4615.6	25°	4750.0	4959.9	5584.0	6283.6	6637.1	6662.9	6493.5	6224.7	5932.0	5797.6
4685.5	27.5°	4871.5	5164.2	6025.8	6753.1	6931.7	6705.2	6340.7	5959.6	5606.1	5464.3
4735.3	30°	4993.0	5398.0	6513.7	7163.6	7066.1	6600.3	6099.5	5674.2	5318.9	5169.7
4779.4	32.5°	5116.4	5670.5	7075.3	7460.0	7042.1	6377.5	5799.4	5353.9	5040.9	4884.4
4818.1	35°	5256.3	6005.6	7607.3	7622.1	6881.9	6049.8	5403.6	4970.9	4698.4	4573.2
4864.1	37.5°	5438.5	6430.9	8076.8	7662.6	6602.1	5569.3	4912.0	4518.0	4293.4	4236.3
4932.2	40°	5665.0	6942.7	8435.8	7598.1	6187.9	4985.6	4374.4	4059.6	3932.5	3945.4
5024.3	42.5°	5959.6	7515.3	8688.0	7432.4	5611.6	4383.6	3903.1	3763.2	3823.9	3875.5
5162.4	45°	6342.5	8109.9	8844.5	7150.7	4959.9	3873.6	3625.1	3658.2	3704.2	3709.8
5385.2	47.5°	6832.2	8712.0	8947.6	6725.5	4295.2	3514.6	3448.3	3455.7	3446.5	3407.8
5718.4	50°	7443.5	9297.4	9039.7	6162.1	3730.0	3290.0	3201.6	3175.9	3048.8	2923.6
6162.1	52.5°	8139.4	9835.0	9078.4	5462.5	3290.0	3102.2	2958.6	2796.6	2559.1	2520.4
6719.9	55°	8912.7	10332.1	8978.9	4602.7	2919.9	2861.0	2643.8	2448.6	2422.9	2389.7
7454.5	57.5°	9836.9	10867.9	8776.4	3643.5	2540.7	2579.3	2367.6	2389.7	2343.7	2292.1
8399.0	60°	10847.6	11422.0	8421.1	2769.0	2148.5	2227.7	2295.8	2294.0	2281.1	2238.8
9395.0	62.5°	11757.1	11786.6	7721.5	2120.9	1804.3	1955.2	2141.2	2139.3	2128.3	2104.4
10435.2	65°	12298.4	11731.3	6554.2	1669.9	1520.7	1730.6	1931.3	1946.0	1947.9	1946.0
11217.7	67.5°	12202.7	11085.1	4952.5	1329.3	1286.9	1502.3	1723.2	1743.5	1758.2	1761.9
11317.1	70°	11120.1	9665.7	3229.3	1060.5	1078.9	1301.6	1526.3	1546.5	1559.4	1574.1
9820.3	72.5°	8667.8	7106.6	1848.4	857.9	896.6	1128.6	1331.1	1355.0	1362.4	1390.0
6834.1	75°	5282.1	4179.2	997.9	675.7	736.4	964.7	1137.8	1165.4	1178.3	1211.4
3356.3	77.5°	2511.2	1809.8	568.9	526.5	592.8	788.0	961.0	992.3	957.4	975.8
926.1	80°	848.7	672.0	359.0	401.4	452.9	614.9	769.6	800.9	727.2	723.5
307.5	82.5°	296.4	272.5	228.3	267.0	292.7	440.0	581.8	622.3	541.3	539.4
138.1	85°	116.0	110.5	127.0	145.4	174.9	270.6	382.9	403.2	333.2	268.8
40.5	87.5°	23.9	25.8	31.3	33.1	53.4	93.9	138.1	169.4	134.4	114.1
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°
3969.4
4118.5
4335.7
4586.1
4871.5
5197.4
5598.7
6035.1
6272.6
6149.2
5817.8
5480.9
5186.3
4904.6
4600.9
4276.8
3989.6
3923.3
3746.6
3437.3
2940.2
2533.3
2395.2
2282.9
2224.0
2095.1
1946.0
1765.6
1581.5
1401.1
1215.1
961.0
716.2
513.7
265.1
104.9
0.0

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