

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: McGRAW-EDISON

Report Number: P954972

Luminaire Tested: **GALN-SB8A-760-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954972
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-760-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38300 lumens
Efficiency: N/A
Efficacy: 168.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

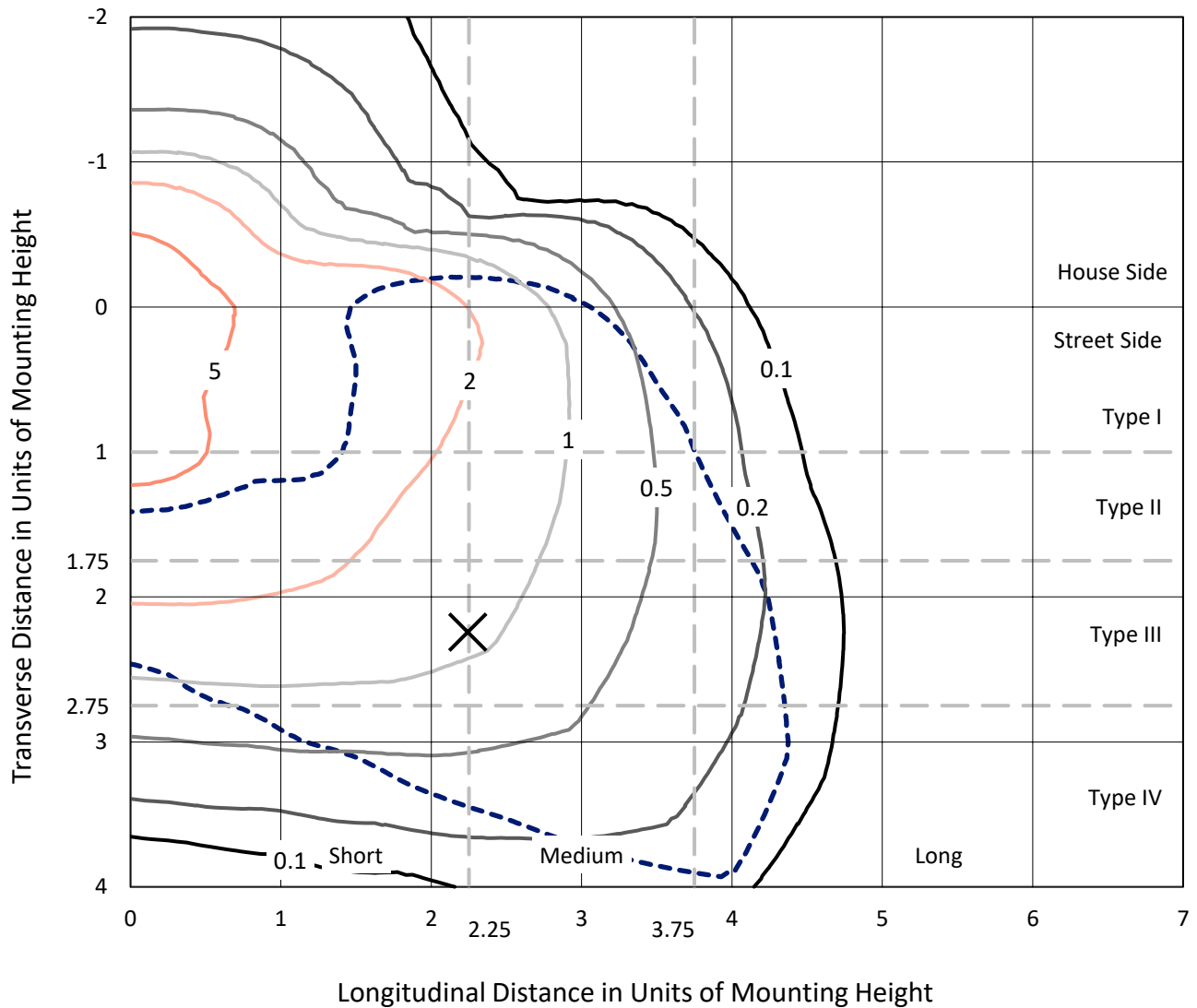
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

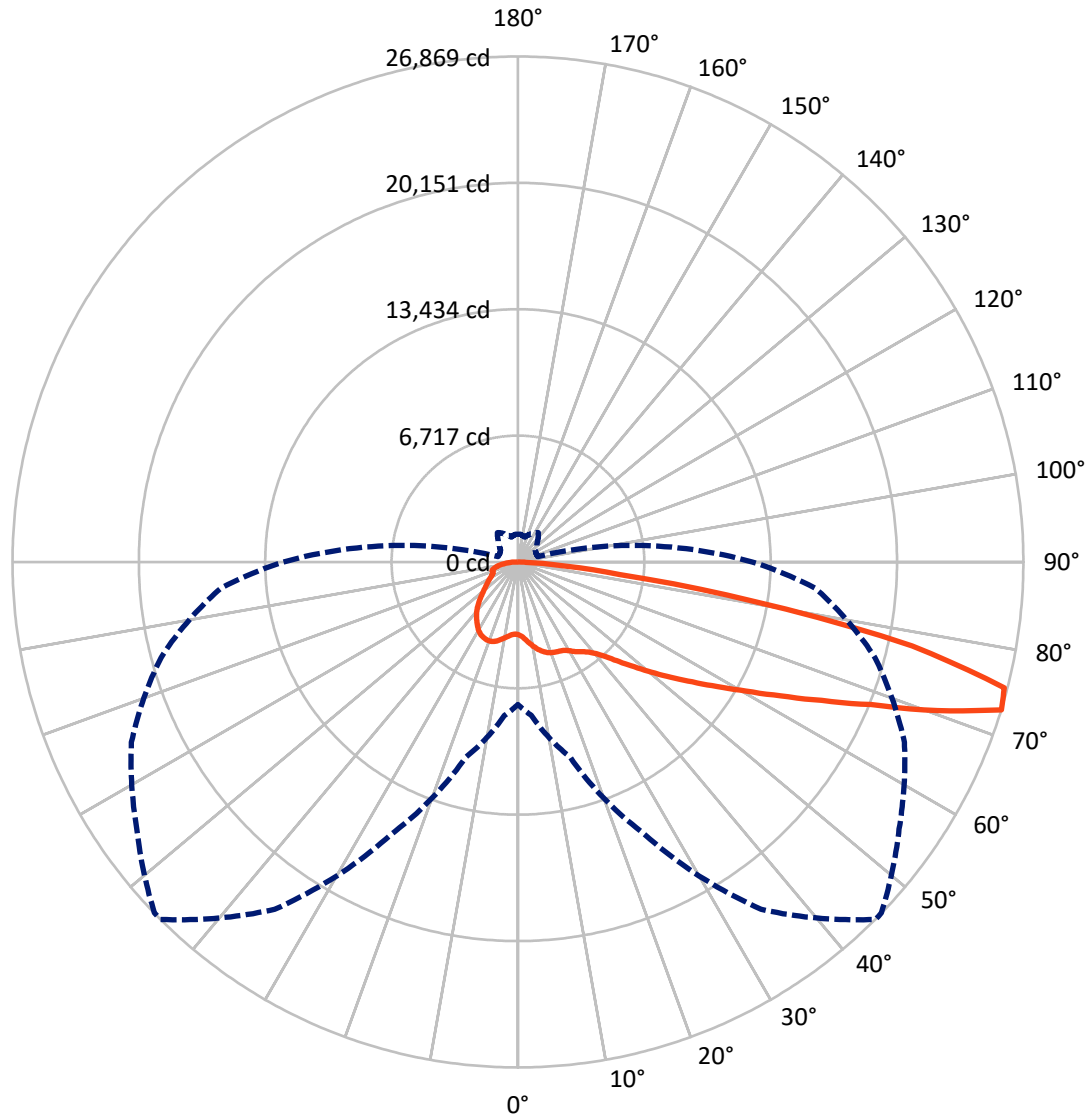
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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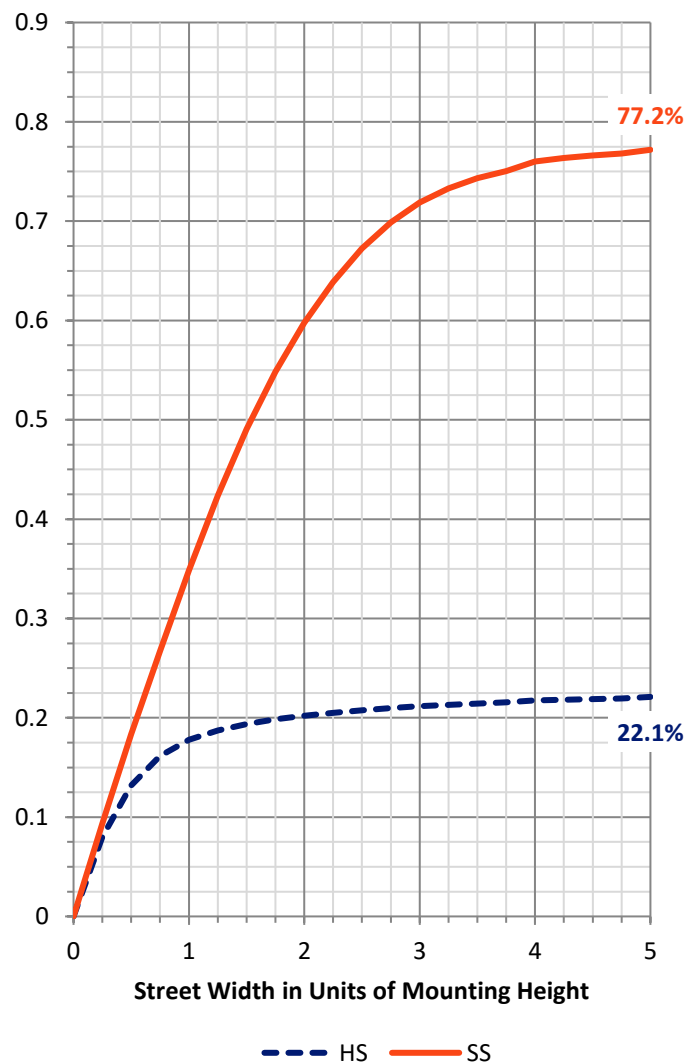
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8658.3	0.0	8658.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	29641.7	0.0	29641.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	38300.0	0.0	38300.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.2	1.0
10°-20°	1311.1	3.4
20°-30°	2280.8	6.0
30°-40°	3269.7	8.5
40°-50°	4603.9	12.0
50°-60°	7051.8	18.4
60°-70°	10215.6	26.7
70°-80°	8157.8	21.3
80°-90°	1016.0	2.7
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°	38300.0	100.0
0°-180°	38300.0	100.0

Coefficient of Utilization



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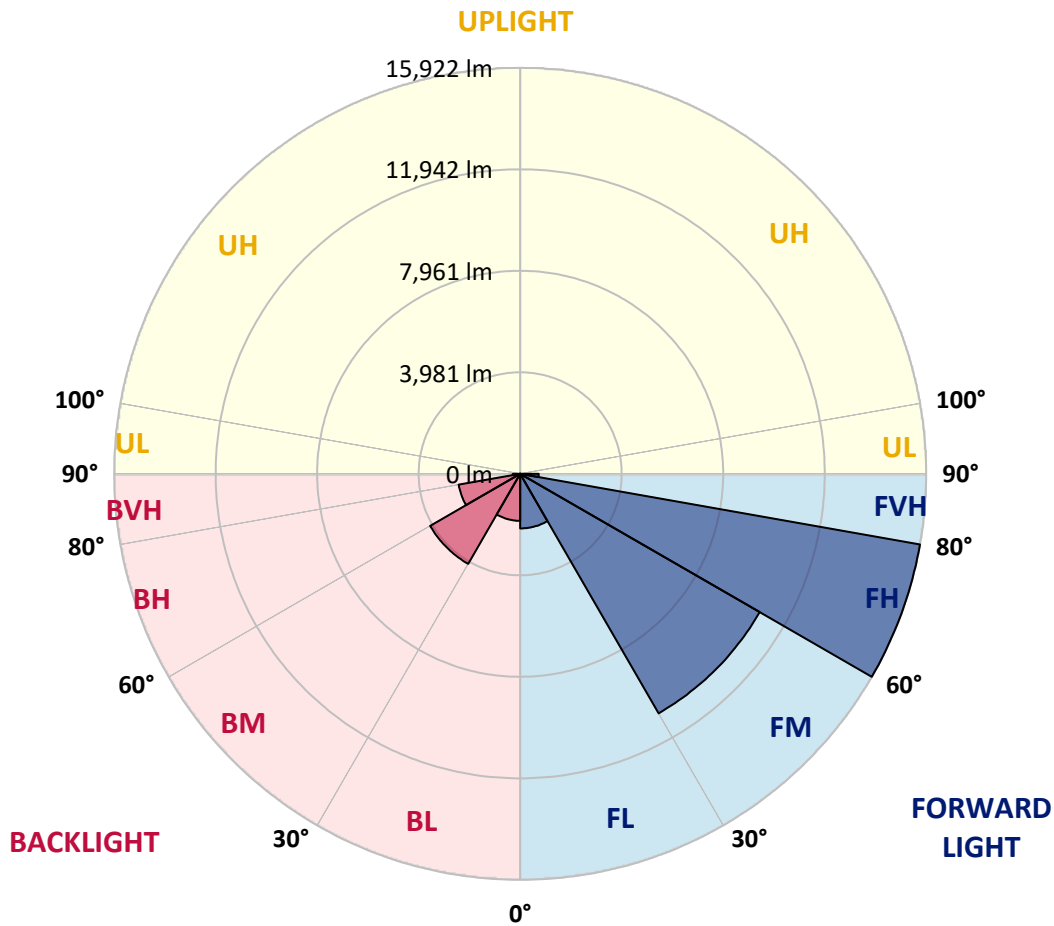
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2141.8	5.6			
FM (30°-60°)	10848.6	28.3			
FH (60°-80°)	15922.4	41.6			G5
FVH (80°-90°)	728.9	1.9			G4/750
BL (0°-30°)	1843.4	4.8	B3/2500		
BM (30°-60°)	4076.8	10.6	B3/5000		
BH (60°-80°)	2450.9	6.4	B3/2500		G3/2500
BVH (80°-90°)	287.1	0.7			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°	45°	46°	55°	65°	75°
0°	3863.7	3863.7	3863.7	3863.7	3863.7	3863.7	3863.7	3863.7	3863.7	3863.7
2.5°	4015.0	4041.3	4017.1	3994.9	3984.8	3958.6	3956.5	3940.4	3930.3	3902.1
5°	4295.5	4329.8	4289.4	4245.1	4204.7	4140.1	4132.1	4085.7	4033.2	3972.7
7.5°	4612.3	4642.5	4596.1	4529.5	4458.9	4352.0	4350.0	4265.2	4182.5	4079.6
10°	4888.7	4929.0	4866.5	4775.7	4686.9	4565.9	4551.7	4454.9	4350.0	4216.8
12.5°	5132.8	5161.0	5100.5	4989.6	4886.7	4765.6	4747.4	4640.5	4523.5	4372.2
15°	5326.5	5362.8	5282.1	5163.1	5054.1	4935.1	4918.9	4822.1	4705.1	4545.7
17.5°	5453.6	5483.9	5401.1	5268.0	5163.1	5064.2	5052.1	4971.4	4868.5	4707.1
20°	5502.0	5534.3	5447.5	5312.4	5215.5	5138.9	5132.8	5074.3	5003.7	4856.4
22.5°	5550.4	5580.7	5467.7	5326.5	5241.8	5193.3	5191.3	5153.0	5124.7	5003.7
25°	5746.2	5754.2	5602.9	5399.1	5278.1	5235.7	5233.7	5231.7	5243.8	5148.9
27.5°	5915.6	5913.6	5784.5	5592.8	5405.2	5316.4	5314.4	5334.6	5372.9	5294.2
30°	6163.8	6141.6	5988.3	5788.5	5617.0	5479.8	5467.7	5449.6	5479.8	5417.3
32.5°	6690.4	6619.8	6371.6	6016.5	5792.6	5687.6	5671.5	5558.5	5570.6	5532.3
35°	7445.0	7352.2	7021.3	6448.3	6010.5	5861.2	5853.1	5709.8	5685.6	5651.3
37.5°	8342.8	8227.8	7842.5	7073.7	6385.7	6062.9	6050.8	5921.7	5822.8	5786.5
40°	9244.7	9099.4	8780.6	7836.4	6938.6	6399.9	6361.5	6165.8	6052.8	5992.3
42.5°	10120.3	9999.3	9726.9	8691.9	7620.5	6892.2	6807.4	6472.5	6387.8	6331.3
45°	10895.1	10786.1	10586.4	9605.8	8419.5	7562.0	7479.3	6932.5	6906.3	6906.3
47.5°	11524.6	11500.4	11288.5	10538.0	9361.7	8324.7	8181.4	7572.1	7642.7	7751.7
50°	12222.7	12156.1	11930.1	11456.0	10469.4	9198.3	9081.3	8356.9	8621.3	8919.9
52.5°	12864.3	12900.6	12648.4	12412.3	11720.3	10172.8	9967.0	9283.0	9854.0	10348.3
55°	13524.0	13526.1	13455.4	13423.2	13031.7	11250.2	11024.2	10396.7	11304.7	11918.0
57.5°	14143.5	14147.5	14252.4	14536.9	14553.0	12493.0	12236.8	11764.7	12916.7	13542.2
60°	14696.3	14724.5	15011.0	15676.8	15890.7	13917.5	13675.4	13380.8	14583.3	15212.8
62.5°	14881.9	14984.8	15622.4	16568.6	17212.2	15664.7	15426.7	15251.1	16334.6	16919.7
65°	14567.1	14803.2	16036.0	17305.0	18572.1	17740.9	17504.8	17313.1	18154.5	18705.3
67.5°	13794.4	14099.1	16011.8	18077.8	20222.5	20238.7	20018.7	19568.8	20105.5	20317.3
70°	11758.6	12214.6	14601.4	18366.3	22117.0	23654.5	23442.6	22284.5	22052.5	21027.5
72.5°	7576.1	8189.5	10751.8	15991.6	22538.7	26868.5	26856.4	24735.9	22667.9	19647.5
75°	2764.1	3139.4	4995.6	10037.6	18919.1	26705.1	26783.8	24316.2	20692.6	15176.5
77.5°	1006.8	1101.6	1630.2	3857.7	11635.6	21427.0	21590.5	19439.7	14728.6	7616.5
80°	528.6	581.1	835.3	1497.1	4985.5	12725.1	12981.3	11552.8	6922.4	2294.0
82.5°	292.6	316.8	468.1	813.1	2245.6	5441.5	5594.8	4563.8	2435.3	972.5
85°	157.4	167.5	219.9	443.9	1097.6	1886.5	1928.8	1363.9	970.5	571.0
87.5°	46.4	56.5	72.6	141.2	429.8	423.7	433.8	270.4	383.3	288.5
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°
3863.7	0°	3863.7	3863.7	3863.7	3863.7	3863.7	3863.7	3863.7	3863.7	3863.7	3863.7
3894.0	2.5°	3881.9	3875.8	3853.6	3843.5	3831.4	3829.4	3839.5	3841.5	3843.5	3845.6
3938.4	5°	3918.2	3898.0	3877.8	3865.7	3869.8	3871.8	3892.0	3906.1	3916.2	3924.3
4021.1	7.5°	3988.8	3972.7	3938.4	3936.4	3942.4	3960.6	3986.8	4019.1	4037.2	4051.4
4128.0	10°	4093.7	4063.5	4023.1	4029.2	4041.3	4067.5	4122.0	4148.2	4178.5	4204.7
4259.2	12.5°	4200.7	4174.4	4128.0	4132.1	4152.2	4198.6	4251.1	4283.4	4303.6	4323.7
4400.4	15°	4339.9	4293.5	4243.0	4243.0	4279.4	4329.8	4354.0	4380.2	4392.3	4414.5
4551.7	17.5°	4483.1	4422.6	4356.0	4352.0	4396.4	4420.6	4434.7	4438.7	4442.8	4467.0
4699.0	20°	4626.4	4559.8	4465.0	4456.9	4467.0	4463.0	4460.9	4456.9	4463.0	4493.2
4850.3	22.5°	4767.6	4690.9	4559.8	4523.5	4495.2	4456.9	4454.9	4452.9	4456.9	4487.2
5013.8	25°	4933.1	4840.2	4664.7	4555.8	4460.9	4408.5	4414.5	4416.5	4420.6	4444.8
5183.2	27.5°	5112.6	5009.7	4761.6	4545.7	4374.2	4337.9	4327.8	4333.8	4348.0	4386.3
5352.7	30°	5292.2	5171.1	4850.3	4505.3	4265.2	4214.8	4182.5	4196.6	4241.0	4279.4
5500.0	32.5°	5455.6	5334.6	4921.0	4416.5	4126.0	4047.3	4005.0	4023.1	4067.5	4081.6
5663.4	35°	5647.3	5510.1	4951.2	4275.3	3974.7	3853.6	3797.1	3770.9	3793.1	3779.0
5855.1	37.5°	5861.2	5717.9	4947.2	4089.7	3797.1	3657.9	3579.2	3480.4	3434.0	3385.6
6137.6	40°	6177.9	5972.1	4898.8	3865.7	3577.2	3450.1	3308.9	3141.4	3036.5	2941.7
6593.6	42.5°	6609.7	6325.2	4810.0	3619.6	3329.1	3210.0	3018.3	2822.6	2657.2	2499.8
7285.6	45°	7253.3	6787.2	4699.0	3357.3	3060.7	2943.7	2735.9	2516.0	2328.3	2126.6
8268.2	47.5°	8181.4	7408.7	4594.1	3058.7	2778.2	2671.3	2483.7	2279.9	2058.0	1862.3
9688.6	50°	9456.5	8300.5	4497.3	2768.2	2499.8	2419.1	2269.8	2062.0	1838.0	1680.7
11353.1	52.5°	11078.7	9513.0	4456.9	2487.7	2239.5	2209.3	2090.2	1896.6	1684.7	1551.5
13294.0	55°	12941.0	10963.7	4456.9	2219.4	2011.6	2021.6	1938.9	1759.4	1575.8	1456.7
15295.5	57.5°	14841.5	12432.5	4376.2	1971.2	1817.9	1860.2	1807.8	1650.4	1485.0	1361.9
17399.9	60°	16592.8	13663.3	4049.3	1745.2	1646.4	1713.0	1678.7	1543.5	1341.7	1238.8
19159.2	62.5°	17938.6	14357.3	3419.9	1565.7	1505.1	1581.8	1563.6	1402.2	1315.5	1273.1
20603.8	65°	18612.5	14244.3	2614.8	1406.3	1386.1	1505.1	1466.8	1460.8	1392.2	1343.7
21073.9	67.5°	18198.8	13271.8	1896.6	1289.3	1317.5	1434.5	1581.8	1606.0	1478.9	1384.1
19750.4	70°	16385.0	11512.5	1412.3	1178.3	1230.7	1436.5	1803.7	1680.7	1450.7	1339.7
15840.3	72.5°	12464.8	8584.9	1095.6	1061.3	1117.8	1446.6	1902.6	1646.4	1370.0	1480.9
9868.1	75°	7128.2	4713.1	879.7	918.0	976.5	1351.8	1852.2	1557.6	1307.4	1359.9
3910.1	77.5°	2717.7	1811.8	726.3	776.8	784.9	1180.3	1771.5	1551.5	1244.9	1214.6
1172.2	80°	942.2	708.2	601.2	617.4	607.3	1049.2	1698.8	1349.8	1018.9	912.0
484.2	82.5°	385.4	353.1	476.2	456.0	431.8	815.1	1372.0	1103.6	833.3	736.4
234.0	85°	167.5	224.0	314.7	276.4	250.2	564.9	1099.6	934.2	704.1	607.3
76.7	87.5°	34.3	84.7	133.2	125.1	129.1	377.3	780.8	663.8	498.3	373.3
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°
3863.7
3853.6
3928.3
4055.4
4198.6
4331.8
4422.6
4475.1
4505.3
4507.3
4477.1
4424.6
4321.7
4132.1
3823.4
3415.8
2947.7
2485.7
2102.4
1840.1
1670.6
1541.5
1444.6
1341.7
1222.7
1259.0
1327.6
1367.9
1321.5
1468.8
1359.9
1107.7
881.7
728.4
605.3
292.6
0.0

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