

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: P957648

Luminaire Tested: **GALN-SB9D-940-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-940-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65642 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

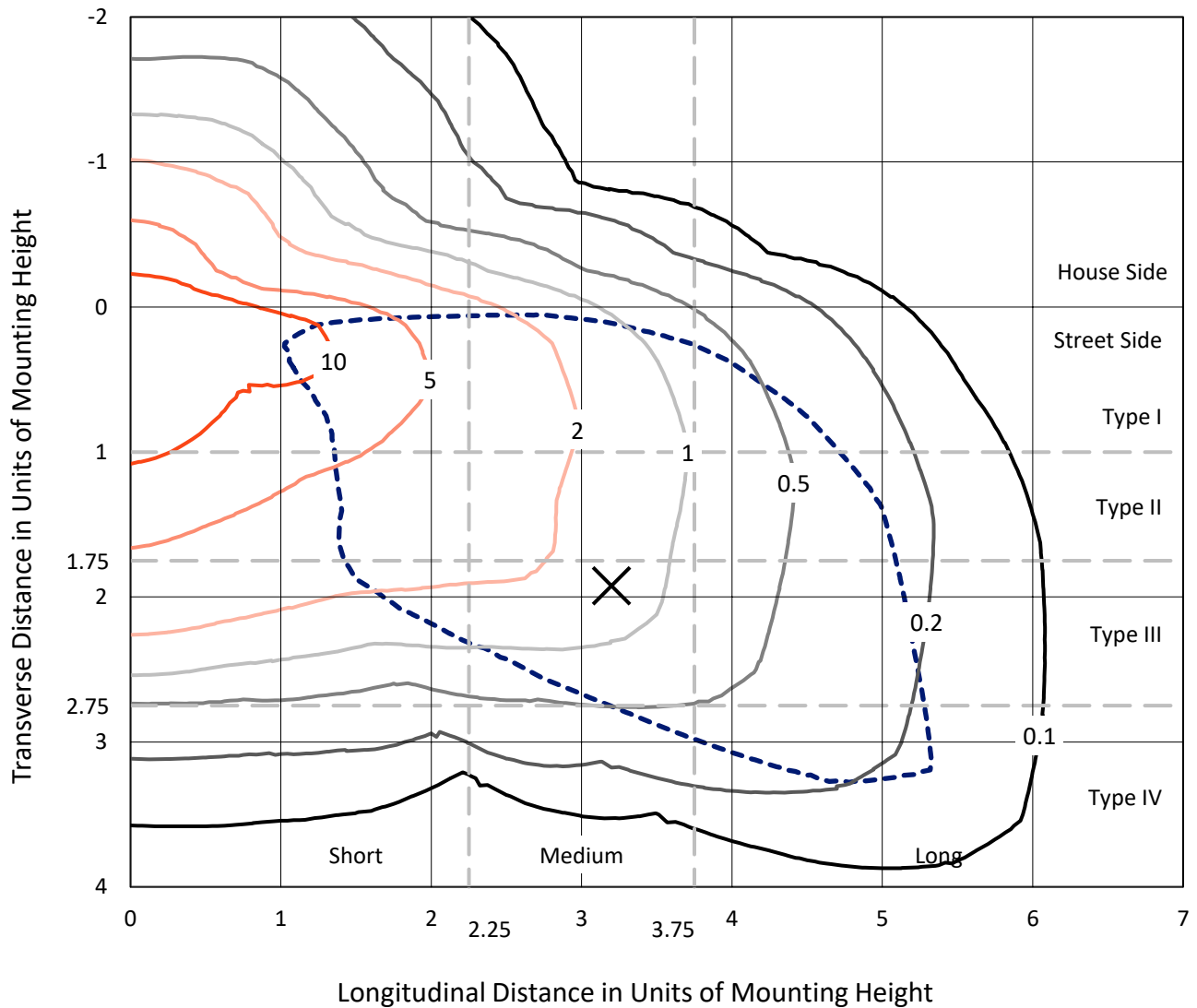
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

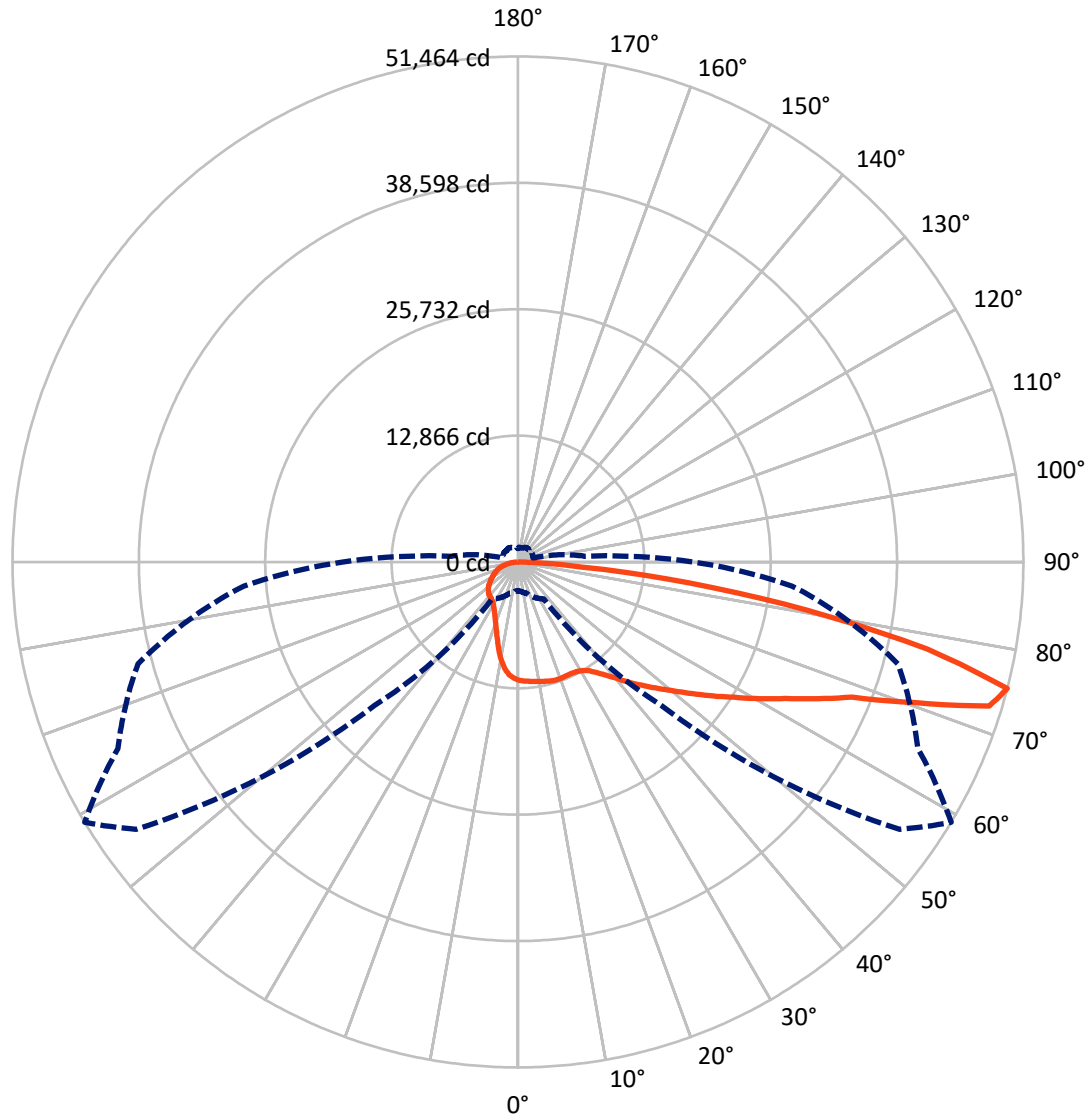
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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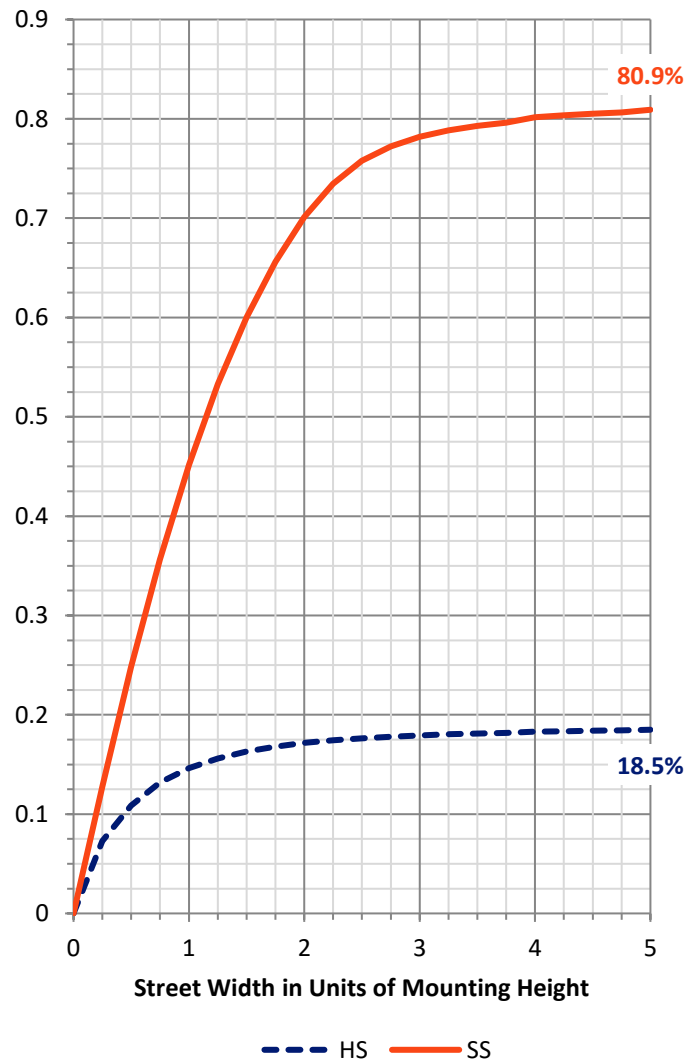
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12311.6	0.0	12311.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	53330.4	0.0	53330.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	65642.0	0.0	65642.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1080.3	1.6
10°-20°	2761.4	4.2
20°-30°	4194.4	6.4
30°-40°	6234.8	9.5
40°-50°	9272.3	14.1
50°-60°	12586.0	19.2
60°-70°	15365.4	23.4
70°-80°	12058.6	18.4
80°-90°	2088.8	3.2
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°	65642.0	100.0
0°-180°	65642.0	100.0

Coefficient of Utilization



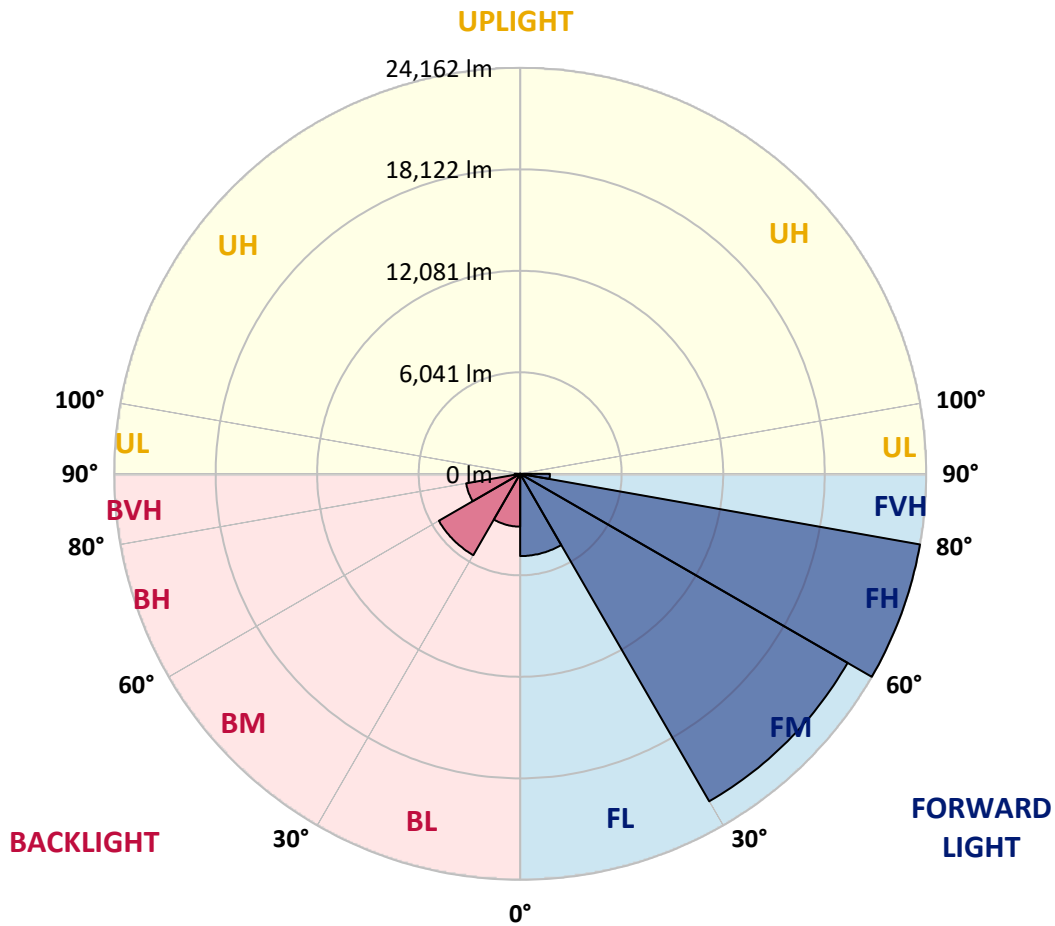
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4894.3	7.5			
FM (30°-60°)	22504.8	34.3			
FH (60°-80°)	24162.2	36.8			G5
FVH (80°-90°)	1769.1	2.7			G5
BL (0°-30°)	3141.8	4.8	B4/5000		
BM (30°-60°)	5588.2	8.5	B4/8500		
BH (60°-80°)	3261.8	5.0	B4/5000		G4/5000
BVH (80°-90°)	319.8	0.5			G3/500
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°	45°	55°	59°	65°	75°
0°	12048.4	12048.4	12048.4	12048.4	12048.4	12048.4	12048.4	12048.4	12048.4	12048.4
2.5°	12150.8	12108.5	12150.8	12133.2	12126.1	12112.0	12115.5	12140.3	12126.1	12143.8
5°	12069.6	12044.9	12087.3	12076.7	12122.6	12129.7	12175.6	12203.8	12221.5	12225.0
7.5°	11935.4	11910.7	11970.8	12020.2	12119.1	12147.3	12242.7	12288.6	12313.3	12355.7
10°	11444.6	11434.0	11582.3	11769.5	12002.5	12147.3	12292.1	12369.8	12408.6	12521.6
12.5°	10575.9	10590.1	10784.3	11144.5	11610.6	12076.7	12348.6	12461.6	12521.6	12662.9
15°	9746.1	9742.6	9954.4	10339.3	10992.6	11765.9	12376.8	12571.1	12673.5	12881.8
17.5°	9265.9	9251.7	9400.0	9693.1	10300.5	11289.2	12306.2	12631.1	12850.0	13111.3
20°	9177.6	9149.3	9227.0	9371.8	9802.6	10766.6	12122.6	12631.1	12991.3	13330.3
22.5°	9498.9	9453.0	9421.2	9403.6	9594.3	10335.8	11914.3	12588.7	13199.6	13644.5
25°	10145.1	10074.5	9912.1	9753.2	9696.7	10141.6	11730.6	12578.1	13510.4	14068.3
27.5°	11190.4	11102.1	10773.7	10392.3	10049.8	10240.5	11649.4	12641.7	13852.9	14516.7
30°	12486.3	12391.0	11977.8	11391.6	10777.2	10607.7	11751.8	12828.8	14290.8	15113.5
32.5°	13648.1	13542.1	13189.0	12592.2	11762.4	11243.3	12076.7	13185.5	14979.3	15943.4
35°	14679.2	14555.6	14237.8	13686.9	12970.1	12136.7	12662.9	13817.6	15957.5	17292.3
37.5°	15689.1	15544.3	15198.3	14615.6	14114.2	13326.7	13471.5	14629.7	17257.0	18930.7
40°	16819.1	16610.7	16190.5	15615.0	15127.6	14721.6	14534.4	15625.5	18577.6	20759.9
42.5°	17913.8	17716.0	17214.6	16723.7	16112.9	15996.3	15766.8	16790.8	20021.9	22769.2
45°	19093.2	18856.6	18249.2	17627.7	17242.8	16843.8	16960.3	17956.1	21437.9	24817.2
47.5°	20198.4	19933.6	19216.8	18524.7	18312.8	17557.1	18055.0	19238.0	22910.4	26893.6
50°	20795.2	20533.9	19937.1	19312.1	19146.1	18436.4	19241.5	20646.9	24453.5	28962.9
52.5°	21293.1	21010.6	20230.2	19884.2	19834.7	19393.3	20703.4	22257.1	25996.7	30792.0
55°	21822.8	21508.5	20512.7	20202.0	20428.0	20466.8	22437.2	24082.8	27628.1	32575.3
57.5°	22433.7	22034.7	20784.6	20470.3	21007.1	21723.9	24428.8	25975.5	29231.2	34227.9
60°	23009.3	22606.7	21307.2	20897.6	21632.1	23182.3	26713.5	28267.2	31046.3	35700.4
62.5°	23122.3	22790.3	21723.9	21720.4	22479.6	24884.3	29418.4	30580.2	32631.8	37155.3
65°	21166.0	20957.7	20325.6	21688.6	23694.3	27335.0	32430.5	33539.3	34648.1	38426.5
67.5°	16109.3	16137.6	16091.7	18722.4	22712.7	30855.6	36791.5	36706.8	37137.6	39853.1
70°	7366.1	7532.0	8612.6	12924.2	18196.3	31261.7	44002.2	42904.0	40262.7	41699.9
72.5°	3979.7	4106.8	4548.2	6260.8	10939.6	27794.0	49390.8	50171.2	44418.9	42942.9
75°	2920.3	2990.9	3298.1	3979.7	4594.1	20657.5	47459.3	51463.7	44938.0	40043.8
77.5°	2185.8	2217.6	2468.3	3153.4	2351.8	10890.2	37921.5	42621.5	38468.9	32900.2
80°	1585.5	1620.8	1808.0	2365.9	1649.1	3983.2	26039.0	29916.3	26346.3	20971.8
82.5°	1094.7	1108.8	1190.0	1610.2	1151.2	1546.7	14774.5	17543.0	14707.4	7359.0
85°	660.3	678.0	713.3	939.3	653.3	734.5	6377.3	6596.3	4396.3	1758.5
87.5°	271.9	289.6	317.8	395.5	257.8	204.8	1052.3	1320.7	822.8	515.6
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°
12048.4	0°	12048.4	12048.4	12048.4	12048.4	12048.4	12048.4	12048.4	12048.4	12048.4	12048.4
12083.8	2.5°	12066.1	12041.4	11974.3	11882.5	11797.7	11691.8	11645.9	11607.0	11571.7	11504.6
12179.1	5°	12140.3	12073.2	11893.1	11660.0	11395.2	11105.6	10823.1	10628.9	10462.9	10339.3
12288.6	7.5°	12253.3	12126.1	11797.7	11321.0	10713.7	10092.2	9530.7	9131.7	8831.5	8722.1
12443.9	10°	12369.8	12217.9	11645.9	10805.5	9756.7	8799.7	8054.7	7645.0	7404.9	7327.2
12627.6	12.5°	12507.5	12285.0	11409.3	10088.6	8686.7	7638.0	6988.2	6748.1	6624.5	6582.2
12853.6	15°	12708.8	12341.5	11052.6	9191.7	7666.2	6790.5	6370.3	6204.3	6140.8	6137.2
13086.6	17.5°	12860.6	12352.1	10498.2	8231.2	6882.3	6278.5	5932.4	5868.8	5911.2	5974.8
13316.1	20°	13030.1	12256.8	9770.8	7355.5	6331.4	5830.0	5685.2	5727.6	5830.0	5921.8
13619.8	22.5°	13150.2	12083.8	8891.6	6674.0	5854.7	5572.2	5565.2	5653.4	5709.9	5755.9
13976.5	25°	13256.1	11790.7	7959.3	6101.9	5462.8	5416.9	5494.5	5466.3	5427.4	5466.3
14333.1	27.5°	13333.8	11328.1	7126.0	5600.5	5187.3	5310.9	5265.0	5201.5	5197.9	5219.1
14753.3	30°	13309.1	10710.1	6440.9	5123.8	4993.1	5113.2	5003.7	4993.1	4982.5	4993.1
15385.4	32.5°	13309.1	10007.4	5914.8	4795.4	4869.5	4823.6	4813.0	4788.3	4745.9	4742.4
16243.5	35°	13383.2	9304.7	5462.8	4618.8	4767.1	4657.6	4664.7	4604.7	4516.4	4474.0
17380.5	37.5°	13535.1	8739.7	5014.3	4534.1	4587.0	4583.5	4555.2	4452.8	4297.5	4163.3
18800.1	40°	13902.3	8573.7	4707.1	4495.2	4502.3	4544.7	4470.5	4272.7	3919.6	3700.7
20240.8	42.5°	14477.9	8852.7	4640.0	4399.9	4445.8	4488.2	4343.4	3884.3	3633.6	3502.9
21752.2	45°	15208.9	9340.0	4784.8	4262.2	4311.6	4385.7	3954.9	3736.0	3623.0	3626.5
23249.4	47.5°	16134.0	9852.0	5053.1	4142.1	4117.4	4159.7	3697.2	3563.0	3407.6	3446.4
24686.6	50°	17204.0	10371.1	5307.4	3979.7	3902.0	3764.3	3531.2	3404.1	3206.3	3114.5
26074.4	52.5°	18362.2	10872.6	5409.8	3781.9	3668.9	3510.0	3418.2	3262.8	3022.7	2870.9
27384.4	55°	19460.4	11328.1	5296.8	3545.3	3435.9	3312.3	3298.1	3202.8	2945.0	2733.1
28549.7	57.5°	20498.6	11709.4	5014.3	3305.2	3199.3	3125.1	3220.5	3174.5	2849.7	2577.8
29651.5	60°	21377.9	11970.8	4604.7	3061.5	2987.4	2948.5	3093.3	3079.2	2715.5	2411.8
30640.2	62.5°	22077.0	12073.2	4152.7	2828.5	2810.8	2740.2	2916.8	2916.8	2546.0	2249.4
31508.9	65°	22624.4	11974.3	3693.6	2599.0	2634.3	2528.3	2701.4	2680.2	2365.9	2104.6
32508.2	67.5°	23108.2	11649.4	3185.1	2373.0	2454.2	2320.0	2475.4	2425.9	2168.2	1959.8
33373.3	70°	23323.6	10893.7	2606.0	2147.0	2245.8	2115.2	2249.4	2157.6	1945.7	1804.4
32423.4	72.5°	21593.3	9054.0	2051.6	1910.4	1995.1	1889.2	2005.7	1899.8	1705.6	1642.0
27998.9	75°	17864.3	6794.0	1578.4	1652.6	1716.2	1634.9	1712.6	1634.9	1458.4	1504.3
20682.2	77.5°	12973.6	4587.0	1207.7	1380.7	1408.9	1366.6	1433.7	1345.4	1186.5	1175.9
10307.6	80°	6451.5	2687.2	946.4	1091.1	1080.5	1052.3	1130.0	1087.6	953.4	1009.9
2782.6	82.5°	1868.0	1151.2	688.6	766.3	745.1	752.1	808.6	829.8	1243.0	1232.4
865.1	85°	586.2	452.0	413.2	427.3	406.1	416.7	476.7	946.4	875.7	512.0
268.4	87.5°	151.8	155.4	102.4	109.5	113.0	134.2	151.8	575.6	275.4	180.1
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°
12048.4
11472.9
10236.9
8531.4
7207.2
6592.7
6151.3
5999.5
5953.6
5780.6
5491.0
5254.4
5032.0
4788.3
4516.4
4209.2
3728.9
3502.9
3644.2
3545.3
3139.2
2867.3
2733.1
2563.6
2401.2
2238.8
2090.5
1945.7
1776.2
1589.0
1373.6
1122.9
999.3
1260.6
554.4
190.7
0.0

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