

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: P943039

Luminaire Tested: **GALN-SB7B-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-827-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34418 lumens
Efficiency: N/A
Efficacy: 134.1 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

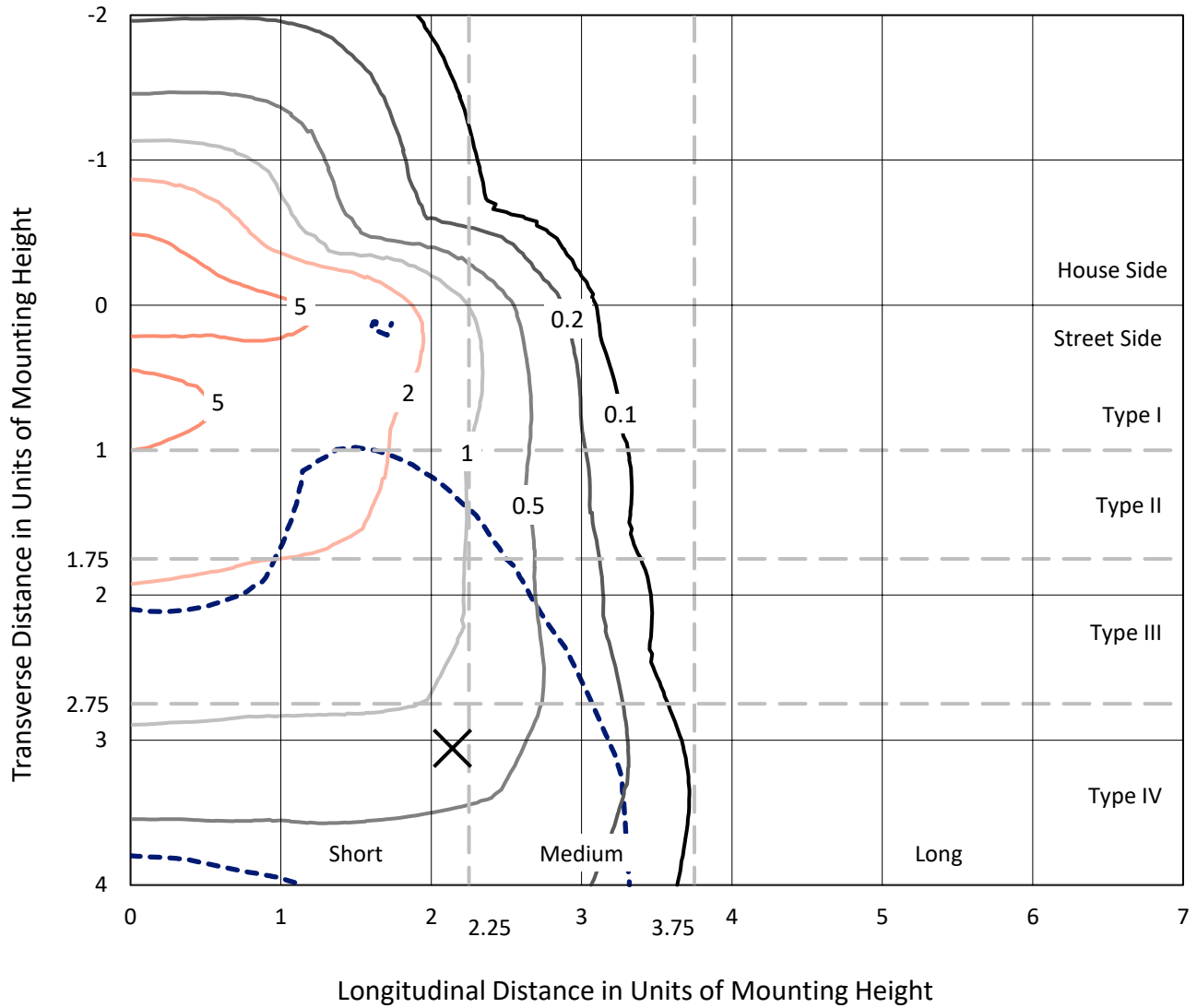
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

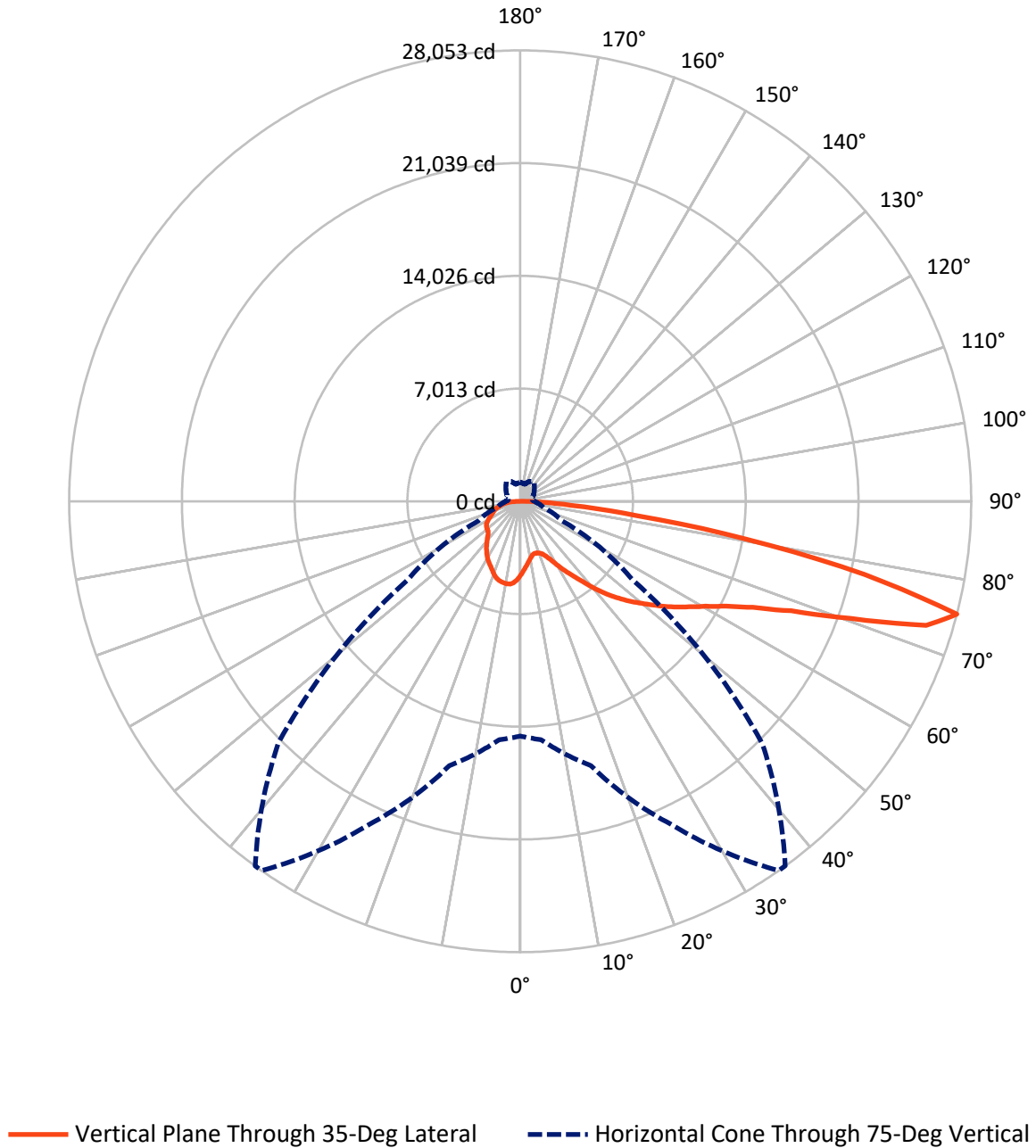
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8190.6	0.0	8190.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	26227.4	0.0	26227.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	34418.0	0.0	34418.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.2	1.3
10°-20°	1252.5	3.6
20°-30°	2103.4	6.1
30°-40°	3268.9	9.5
40°-50°	4851.9	14.1
50°-60°	6698.4	19.5
60°-70°	8126.7	23.6
70°-80°	6716.1	19.5
80°-90°	966.0	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°	34418.0	100.0
0°-180°	34418.0	100.0

Coefficient of Utilization



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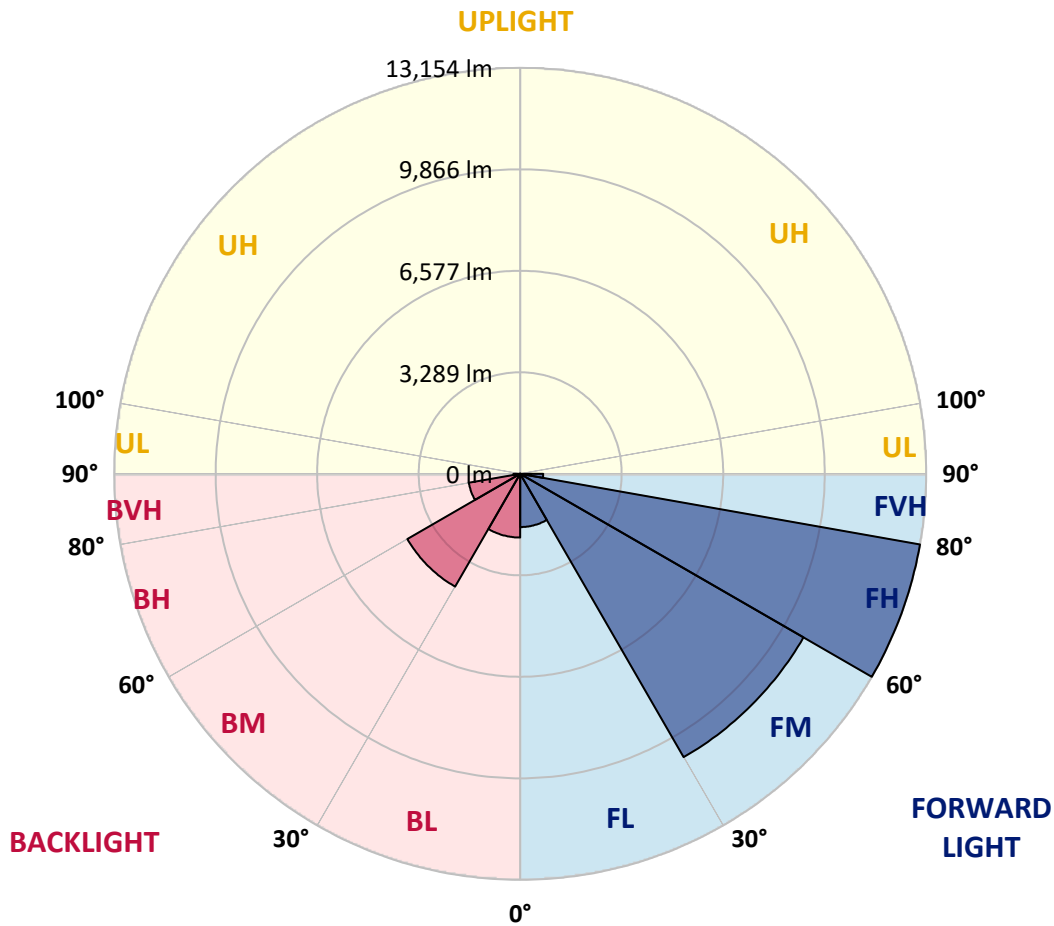
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1726.0	5.0			
FM (30°-60°)	10598.9	30.8			
FH (60°-80°)	13154.0	38.2			G5
FVH (80°-90°)	748.5	2.2			G4/750
BL (0°-30°)	2064.1	6.0	B3/2500		
BM (30°-60°)	4220.3	12.3	B3/5000		
BH (60°-80°)	1688.7	4.9	B3/2500		G3/2500
BVH (80°-90°)	217.5	0.6			G2/225
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°	4586.4	4586.4	4586.4	4586.4	4586.4	4586.4	4586.4	4586.4	4586.4	4586.4
2.5°	4229.2	4255.2	4266.4	4260.8	4288.7	4285.0	4324.1	4372.5	4439.4	4504.6
5°	3903.6	3931.5	3955.7	3978.0	4032.0	4048.7	4110.1	4203.1	4325.9	4450.6
7.5°	3600.3	3624.5	3661.7	3702.6	3793.8	3810.6	3912.9	4058.0	4229.2	4411.5
10°	3352.8	3377.0	3416.1	3462.6	3576.1	3596.6	3726.8	3920.3	4143.6	4374.3
12.5°	3246.8	3254.2	3276.6	3323.1	3421.7	3434.7	3578.0	3799.4	4059.9	4346.4
15°	3241.2	3256.1	3257.9	3282.1	3364.0	3369.6	3501.7	3721.2	4007.8	4340.8
17.5°	3297.0	3308.2	3291.4	3306.3	3375.2	3384.5	3488.7	3684.0	3991.0	4365.0
20°	3445.9	3455.2	3404.9	3384.5	3434.7	3442.1	3544.5	3708.2	4007.8	4415.3
22.5°	3762.2	3767.8	3645.0	3561.2	3565.0	3568.7	3658.0	3806.8	4072.9	4506.4
25°	4255.2	4251.5	4056.2	3894.3	3801.2	3780.8	3840.3	3966.8	4182.7	4627.4
27.5°	4832.0	4804.1	4608.8	4366.9	4164.1	4134.3	4121.3	4175.2	4339.0	4787.4
30°	5483.3	5457.2	5247.0	4930.6	4649.7	4601.3	4478.5	4450.6	4571.5	5005.1
32.5°	6197.7	6181.0	5929.8	5546.5	5170.7	5114.8	4908.3	4833.9	4928.8	5334.4
35°	6796.8	6782.0	6573.6	6179.1	5719.5	5650.7	5440.5	5356.7	5405.1	5756.8
37.5°	7338.3	7330.8	7152.2	6841.5	6367.0	6283.3	6047.0	6019.1	6009.8	6313.1
40°	7840.7	7822.1	7636.0	7472.3	7120.6	7044.3	6835.9	6811.7	6741.0	6997.8
42.5°	8397.0	8348.6	8078.8	8002.5	7907.6	7844.4	7719.7	7723.4	7567.1	7770.0
45°	8851.0	8823.1	8545.8	8501.2	8603.5	8577.5	8685.4	8713.3	8410.0	8579.3
47.5°	9338.5	9312.4	9078.0	9046.3	9323.6	9331.0	9712.4	9721.7	9232.4	9420.3
50°	9939.4	9902.2	9669.6	9708.7	10019.4	10047.4	10745.1	10681.8	9989.7	10274.4
52.5°	10335.8	10358.1	10307.8	10371.1	10795.3	10821.4	11761.0	11599.1	10739.5	11117.2
55°	10627.9	10672.5	10828.8	10973.9	11614.0	11640.0	12719.2	12471.7	11361.0	11898.7
57.5°	11003.7	10940.5	11232.6	11515.4	12391.7	12460.6	13651.4	13312.7	11911.7	12572.2
60°	11543.3	11498.6	11725.6	12144.3	13262.5	13372.3	14637.5	14070.0	12315.5	13106.2
62.5°	12637.3	12525.7	12561.1	12931.3	14360.3	14505.4	15750.2	14730.5	12516.4	13314.6
65°	14272.8	14081.2	13902.6	14159.3	15906.5	16049.7	17006.1	15249.7	12442.0	12910.9
67.5°	16332.5	16142.7	15923.2	16165.1	18183.9	18297.3	18556.0	15541.8	11855.9	11355.4
70°	18031.3	17960.6	18222.9	19218.4	21821.4	21825.1	20543.1	15299.9	10250.2	8050.9
72.5°	17806.1	17763.4	19145.8	22223.3	26405.9	26307.3	22424.2	13469.0	6904.8	3631.9
75°	14607.7	14885.0	17026.5	22169.3	28052.6	28039.6	21272.5	8562.6	2856.1	1505.2
77.5°	7833.2	8272.3	11054.0	16367.9	21899.5	22228.8	14955.7	2995.6	1226.1	963.8
80°	2554.6	2937.9	4406.0	8333.7	14230.0	14168.6	6409.8	1175.9	839.1	682.8
82.5°	1084.7	1129.4	1968.5	3935.2	7302.9	7189.4	2041.1	675.4	589.8	467.0
85°	424.2	474.5	868.9	1819.7	3163.1	3094.2	736.8	334.9	377.7	305.1
87.5°	139.5	169.3	310.7	623.3	984.3	948.9	180.5	115.4	163.7	139.5
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°
4586.4	0°	4586.4	4586.4	4586.4	4586.4	4586.4	4586.4	4586.4	4586.4	4586.4	4586.4
4599.5	2.5°	4625.5	4655.3	4690.6	4742.7	4787.4	4824.6	4863.7	4887.9	4897.2	4925.1
4606.9	5°	4659.0	4724.1	4811.6	4897.2	4980.9	5031.1	5075.8	5098.1	5118.6	5133.5
4627.4	7.5°	4714.8	4798.5	4936.2	5047.9	5118.6	5159.5	5189.3	5181.8	5189.3	5193.0
4649.7	10°	4763.2	4880.4	5044.1	5150.2	5204.2	5206.0	5198.6	5172.5	5159.5	5161.4
4683.2	12.5°	4820.9	4951.1	5127.9	5217.2	5232.1	5191.1	5159.5	5114.8	5098.1	5090.7
4733.4	15°	4899.0	5047.9	5219.0	5252.5	5215.3	5163.2	5109.3	5036.7	4999.5	4969.7
4819.0	17.5°	4993.9	5157.6	5289.7	5265.6	5185.6	5100.0	5012.5	4902.7	4826.5	4794.8
4936.2	20°	5126.0	5273.0	5343.7	5237.6	5116.7	4986.5	4837.6	4703.7	4632.9	4601.3
5085.1	22.5°	5286.0	5427.4	5395.8	5189.3	5018.1	4809.7	4623.6	4525.0	4489.7	4467.4
5276.7	25°	5477.7	5598.6	5433.0	5118.6	4856.2	4575.3	4432.0	4400.4	4383.6	4366.9
5511.2	27.5°	5727.0	5792.1	5460.9	5014.4	4603.2	4325.9	4273.8	4279.4	4273.8	4245.9
5836.8	30°	6056.3	6043.3	5487.0	4845.1	4312.9	4100.8	4104.5	4128.7	4132.4	4113.8
6290.8	32.5°	6489.8	6357.7	5500.0	4625.5	4035.7	3903.6	3907.3	3933.4	3952.0	3920.3
6884.3	35°	7014.5	6724.3	5479.5	4350.1	3821.7	3715.7	3687.8	3695.2	3700.8	3671.0
7604.4	37.5°	7626.7	7135.5	5388.4	4045.0	3645.0	3531.5	3471.9	3421.7	3391.9	3364.0
8419.3	40°	8298.4	7583.9	5220.9	3747.3	3447.7	3336.1	3246.8	3151.9	3051.4	3014.2
9282.6	42.5°	9001.7	8045.3	5018.1	3462.6	3220.7	3129.6	3034.7	2897.0	2746.3	2670.0
10179.5	45°	9731.0	8517.9	4819.0	3181.7	2988.2	2949.1	2839.3	2673.7	2510.0	2413.2
11078.1	47.5°	10445.5	8964.5	4526.9	2898.8	2770.5	2813.3	2727.7	2575.1	2392.8	2240.2
11969.4	50°	11128.4	9383.1	4048.7	2612.3	2593.7	2772.3	2690.5	2470.9	2262.5	2067.2
12843.9	52.5°	11805.6	9721.7	3436.6	2351.8	2498.8	2761.2	2642.1	2400.2	2145.3	1940.6
13666.3	55°	12380.6	9896.6	2846.8	2128.6	2361.1	2666.3	2584.4	2316.5	1979.7	1762.0
14230.0	57.5°	12708.0	9755.2	2355.5	1909.0	2171.3	2510.0	2485.8	2137.9	1782.5	1615.0
14339.8	60°	12566.6	9182.2	1953.7	1717.4	1990.9	2340.7	2314.6	1961.1	1631.8	1473.6
13751.9	62.5°	11787.0	8090.0	1635.5	1549.9	1827.1	2167.6	2143.4	1825.3	1516.4	1363.8
12190.8	65°	10216.7	6581.0	1388.0	1410.4	1661.5	1959.2	1994.6	1711.8	1425.2	1276.4
9431.5	67.5°	7792.3	4766.9	1194.5	1289.4	1499.7	1754.6	1856.9	1629.9	1349.0	1207.5
5457.2	70°	4441.3	2707.2	1030.8	1172.2	1356.4	1564.8	1750.8	1564.8	1267.1	1149.9
2044.8	72.5°	1683.9	1242.9	891.2	1055.0	1218.7	1404.8	1633.6	1462.4	1172.2	1084.7
1056.8	75°	898.7	757.3	749.8	917.3	1060.6	1248.5	1486.6	1362.0	1101.5	1146.1
731.2	77.5°	612.1	535.9	627.0	785.2	887.5	1075.4	1330.3	1209.4	954.5	950.8
506.1	80°	424.2	379.6	509.8	632.6	686.6	904.3	1161.0	1038.2	777.7	725.6
312.6	82.5°	254.9	247.5	381.4	472.6	485.6	697.7	961.9	870.8	636.3	554.5
186.1	85°	139.5	147.0	243.7	277.2	282.8	487.5	753.6	673.5	489.3	411.2
67.0	87.5°	39.1	50.2	89.3	109.8	135.8	253.0	448.4	400.0	245.6	171.2
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°
4586.4
4923.2
5137.2
5198.6
5165.1
5086.9
4979.0
4796.7
4597.6
4471.1
4366.9
4251.5
4123.1
3935.2
3691.5
3382.6
3031.0
2679.3
2405.8
2223.4
2050.4
1918.3
1743.4
1592.7
1451.3
1339.6
1252.2
1185.2
1135.0
1069.9
1183.4
876.4
694.0
558.2
414.9
171.2
0.0

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